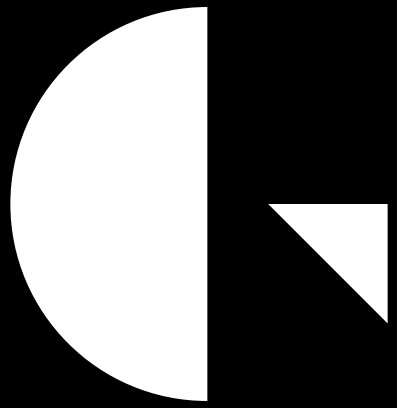
Gresham Smith



LADOTD

IDIQ Contracts for Traffic Engineering | Contract Numbers: 4400025298 and 4400025299
Statewide, LA | November 22, 2022

Genuine Ingenuity

10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

225.757.5849
GreshamSmith.com

November 22, 2022

Mr. Michael Gorbaty
Consultant Contract Services Administrator
Department of Transportation and Development
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

RE: IDIQ Contracts for Traffic Engineering
Contract Numbers. 4400025298 and 4400025299

At Gresham Smith, we have been honored to partner with LADOTD and numerous public agencies on a variety of projects. From our Baton Rouge office, and also at the corporate level, we share in the stake that the LADOTD holds in carrying out its responsibilities in the most effective manner possible. Our key local staff all have experience successfully completing road, bridge, complete street, and traffic projects individually for LADOTD and we look forward to the opportunity to partner with LADOTD to provide traffic engineering services under this IDIQ contract.

For the past 55 years Gresham Smith has partnered with our Transportation clients as a trusted advisor to help them deliver their transportation programs. Our local office is supported by key staff and national experts in our other 25 offices throughout the southeastern US. We deliver an unparalleled diversity and depth of RESOURCES rivaling those of much larger national firms, but we retain the dedicated, personalized service and RESPONSIVENESS of a local firm. Gresham Smith looks forward to continuing our great working relationship with LADOTD staff on this program.

Our primary proposed staff members for this program have been honored to build their careers with LADOTD. Gaining experience with similar types of projects while instilling that required attitude that puts the needs of the communities and safety of the traveling public first. The following key staff members will be leading the effort on these projects and have their career foundation with LADOTD.

- Herbert “Bert” Moore II, P.E., PLS, PTOE, Project Executive, Project Manager as well as Gresham Smith’s Louisiana Transportation Leader, is experienced with traffic engineering, traffic signal design and operations, and safety, for project on the state’s facilities. In his 24 years of experience as both as a consultant and as LADOTD’s District Traffic Operations Engineer for District 61, Bert has demonstrated his knowledge of DOTD requirements and preferences, and proven adept at getting things done efficiently. As the Project Executive, Bert will ensure the team has the expertise and resources necessary for LADOTD’s

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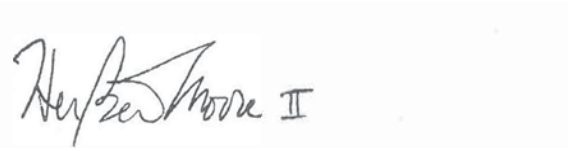
Smith

successful completion of this program and ensuring that each task order is completed on-time and under budget. As the Project Manager, will oversee day-to-day project tasks, ensuring that the team remains focused on providing solutions to address the traffic engineering challenges that LADOTD faces.

- Rebecca Murray, PE, PTOE, RSP1, Deputy Project Manager, will assist with day-to-day project tasks and subconsultant coordination. Rebecca has spent her career focusing on traffic analysis and safety leading Gresham Smith's efforts on a number of LADOTD traffic engineering studies and traffic signal design tasks.
- Tait Karlson, PE, PTOE, RSP1, Kari Pucker, PE, PTOE, RSP1, IMSA II, Meredith Cebelak, Ph.D., PE, PTOE, Jay Bockisch, PE, PTOE, RSP1, Mariod Dipola, PE, PTOE, RSP1, and Joel Morrill, PE, RSP1, are regional traffic and safety related experts that will assist the team as needed and perform on and off team QAQCs of all deliverables.
- Our team will be supported by Quality Counts, Intelligent Transportation Services (ITS), LLC and Grey Engineering, LLC. Quality Counts provided data collection services to the Gresham Smith team for the previous Traffic Engineering Retainer Contract. ITS will support Gresham Smith with field inventories, traffic and safety analyses and traffic signal design. Grey Engineering will assist with the safety analyses and ADA compliance for all traffic signal designs and conceptual geometric improvements.

The Gresham Smith team is eager, enthusiastic and available to start work immediately on this project. We respectfully ask for your consideration and appreciate the opportunity to present this proposal. Please feel free to contact me with any questions at 225.282.2101 or by email at bert.moore@greshamsmith.com.

Sincerely,



Herbert "Bert" Moore II, P.E., PLS, PTOE
State Transportation Leader - Louisiana

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Smith

DOTD FORM: 24-102

(Revised June 1, 2021)

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. Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1. Contract title as shown in the advertisement	IDIQ Contracts for Traffic Engineering
2. Contract number(s) as shown in the advertisement	4400025298 and 4400025299
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Gresham Smith
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0003429 DUNS number: 059153676
6. Prime consultant mailing address	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Herbert "Bert" Moore, II, P.E., PLS, PTOE State Transportation Leader - Louisiana 225.757.5849 / bert.moore@greshamsmith.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Herbert "Bert" Moore, II, P.E., PLS, PTOE State Transportation Leader - Louisiana 225.757.5849 / bert.moore@greshamsmith.com

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

Signature (shall be the same person as #9):

Date: November 22, 2022

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): Grey Engineering, LLC Firm(s)' %: 3%

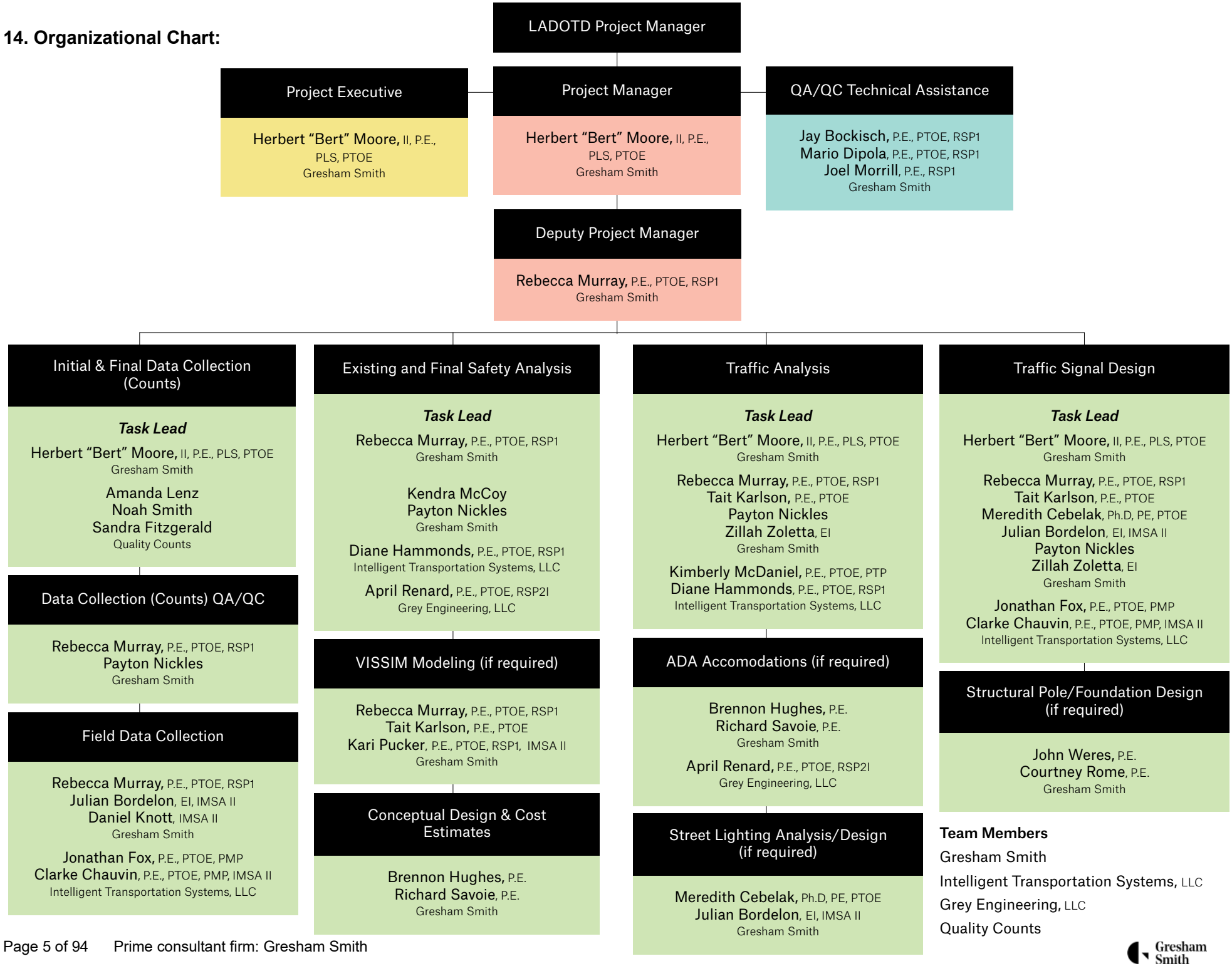
12. Past Performance Evaluation Discipline Table:

Past Performance Rating Categories	% of Overall Contract	Gresham Smith (Prime)	Intelligent Transportation Systems, LLC (Sub)	Quality Counts (Sub)	Grey Engineering, LLC (DBE Sub)
Traffic (Traffic Analysis, Traffic Design, Traffic Safety)	85%	68%	30%	0%	2%
Other (Traffic Counts, ADA Compliance)	15%	10%	0%	80%	10%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	**100%**	**59%**	**26%**	**12%**	**3%**

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)
Gresham Smith	Principal	1	1
Gresham Smith	Supervisor-Engineer	2	6
Gresham Smith	Engineer	3	8
Gresham Smith	Engineer Intern	3	8
Gresham Smith	Senior Technician	2	6
Gresham Smith	Clerical	1	1
Intelligent Transportation Systems, LLC	Principal	1	2
Intelligent Transportation Systems, LLC	Supervisor Engineer	2	2
Intelligent Transportation Systems, LLC	Engineer	1	2
Intelligent Transportation Systems, LLC	Engineer Intern	1	1
Intelligent Transportation Systems, LLC	Technician	0	8
Intelligent Transportation Systems, LLC	Other	0	2
Quality Counts, LLC	Technician	3	49
Quality Counts, LLC	Clerical	4	34
Grey Engineering, LLC	Supervisor-Engineer	1	1

14. Organizational Chart:



Team Members

Gresham Smith

Intelligent Transportation Systems, LLC

Grey Engineering, LLC

Quality Counts

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 / certification required	State of license	License / certification expiration date
1.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE	International	PTOE 2728 Exp. 9/30/2024
2.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE	International	PTOE 2728 Exp. 9/30/2024
3.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE	International	PTOE 2728 Exp. 9/30/2024
4.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE	International	PTOE 2728 Exp. 9/30/2024
	Rebecca Murray, P.E., PTOE, RSP1	Gresham Smith	P.E. (Civil)	Louisiana	PE, LA 43788 Exp. 3/31/2024
			PTOE	International	PTOE 4861 Exp. 3/26/23
			RSP1	Louisiana	RSP1 611 Exp. 4/5/24
	Tait Karlson, P.E., PTOE, RSP1	Gresham Smith	P.E. (Civil)	Louisiana	PE. LA 40438 Exp. 9/30/24
			PTOE	Louisiana	PTOE 2213 Exp. 7/30/23
	Kimberly D. McDaniel, P.E., PTOE, PTP	ITS, LLC	P.E. (Civil)	Louisiana	PE, LA 32973 Exp 9/30/2023

			PTOE	Louisiana	PTOE 2072 Exp 10/2/2025
			PTP	Louisiana	PTP 802 Exp 3/14/2025
	Jonathan Fox, P.E., PTOE, PMP	ITS, LLC	P.E. (Civil)	Louisiana	P.E., LA 33277 Exp. 9/30/2023
			PTOE	International	PTOE 2329 Exp. 11/7/2025
	Clarke Chauvin, P.E., PTOE	ITS, LLC	P.E. (Civil)	Louisiana	P.E., LA 41770 Exp. 9/30/2023
			PTOE	International	PTOE 4337 Exp. 11/20/2023
			IMSA Level II	IMSA	IMSA BE & SI_125780 Exp. 8/25/2025
	Diane Hammonds, P.E., PTOE, RSP1	ITS, LLC	P.E. (Civil)	Louisiana	P.E., LA 40749 Exp. 9/30/2024
			PTOE	International	PTOE 7113 Exp. 11/20/2023
			RSP1	Louisiana	RSP1 798 Exp. 3/14/2025
5.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE	International	PTOE 2728 Exp. 9/30/2024
	Daniel Knott, IMSA II	Gresham Smith	IMSA Level II	IMSA	IMSA BE 60319 Exp. 9/29/2024
	Amanda Lenz	Quality Counts	N/A	N/A	N/A
	Noah Smith	Quality Counts	N/A	N/A	N/A
6.	Richard Savoie, P.E.	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 20936 Exp. 9/30/2024
	Brennon Hughes, P.E.	Gresham Smith	P.E. (Civil)	Louisiana	P.E., LA 39985 Exp. 3/31/2024

16. Staff Experience:

Gresham Smith

Herbert "Bert" Moore, II, P.E., PLS, PTOE

Project Executive and Project Manager

Years of experience with this firm/employer	8
Years of experience with other firm(s)/employer(s)	16

	Bachelor of Science / 1999 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0031065 / LA / Exp. 9/30/24 | PTOE 2728 / Exp. 9/30/24 | PLS 5043 / LA / Exp. 9/30/24		
Year registered	2004(PE); 2009(PTOE); 2010(PLS)	**Discipline**	P.E./Civil, PLS, PTOE
Contract role(s) / brief description of responsibilities	Project Executive and Project Manager / Bert will provide overall contract management and direction for our team, and will lead or support the team with a number of tasks as needed.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
Career	Bert is a professional engineer with more than 23 years of experience designing and managing projects in the fields of traffic and transportation engineering. He previously spent six years as the district traffic operations engineer for LADOTD where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway, over 600 traffic signals and was responsible for performing, supervising, reviewing or approving all types of traffic studies within the Department's Baton Rouge district. His experience is in traffic operations, traffic control, signal warrants, traffic signal timing and design, safety studies, the implementation of access management principles, temporary traffic control for work zones, Transportation Management Plans (TMP), and addressing bicycle and pedestrian needs within the roadway network. Bert has completed the LADOTD Traffic Engineering Process and Report Training.
03/16 – 10/17	**LADOTD Traffic Engineering Retainer Contract, TO #1, Farmerville State and Local Road Traffic Study, Farmerville, LA | *Project Executive*.** Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around Farmerville. The project included data collection, crash review, development of growth rates, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Bert was responsible for the overall study and led meetings with local officials and agencies.
10/28 – Ongoing	**LADOTD Traffic Engineering Retainer Contract, TO #6, LCG Adaptive Traffic Signal System, Lafayette, LA | *Project Executive*.** Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading 190 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of 190 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel studies. Bert was responsible for quality assurance and verifying the technical adequacy of the plans.
05/17 – 03/19	**LADOTD Traffic Engineering Retainer Contract, TO #2, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA | *Project Executive.*** Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to

	evaluate the proposed interchange design. The project included data collection, development of growth rates, lead the Road Safety Assessment, developing and calibrating an existing VISSIM model and evaluation of the proposed alternative. Bert was responsible for the overall study, overseeing data collection, conducting safety analysis, development of VISSIM models, development of alternatives and the report.
05/18 – 12/21	**LADOTD, LA 37: Sullivan Road to Liberty Road Stage 0 Feasibility Study, Baton Rouge, LA	*Project Executive.*** Gresham Smith collected and reviewed over 580 crash reports over a span of three years from the state highway crash database and collected ADT data on 21 segments of LA 37 and intersecting streets, peak hour turning movement counts at 12 significant intersections and 15-minute counts along 38 driveways and insignificant side streets. Crash reports were reviewed and evaluated using the LADOTD safety triage and the safety toolbox. Traffic analyses were performed using mainly HCS and Synchro and other software tools as needed. Gresham Smith reviewed historic traffic volumes counts and TransCAD models and performed an extensive count analysis to develop regional growth rates for the study area. Bert was the supervising professional who was responsible for the traffic and safety portions of the study.
10/17 – 04/18	**LADOTD Traffic Engineering Retainer Contract, TO #4, I-10 at US 90 Lockmoor Bridge Transportation Management Plan (TMP), H.013076.5-1, Lake Charles, LA	*Project Executive.*** LADOTD oversaw the design of planned bridge maintenance of the US 90 bridge that operates as an on ramp to I-10 Eastbound. This bridge crosses over mainline I-10 for both the Eastbound and Westbound directions as well as the Westbound Off Ramp and Eastbound On Ramp to/from PPG drive. We were selected to develop the TMP to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits. Bert oversaw the traffic and crash analysis and the TMP documentation.
05/17 – 01/19	**LADOTD Traffic Engineering Retainer Contract, TO #3, US 171 MLK Boulevard Traffic Study, Lake Charles, LA	*Project Executive.*** Gresham Smith was selected to develop a calibrated VISSIM model for existing conditions and the future no-build conditions along US 171 in Lake Charles, LA. Alternative improvements were recommended and modeled to determine the best solutions to improve the corridor. The project included data collection, development of growth rates, developing and calibrating an existing VISSIM model and evaluation and development of alternatives. Bert's role was to oversee data collection, develop a data collection report, perform the safety analysis, develop VISSIM models for 6 alternatives and calibrate the models, develop presentation material for the public meeting and development of the final report.
04/18 – 05/19	**LADOTD Traffic Engineering Retainer Contract, TO #5, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA	*Project Executive.*** Gresham Smith developed a TMP for the Rubbelization and Overlay on I-10 between I-210 and the LA 108 Interchange in Lake Charles, LA. This project included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. In order to replace the concrete panels on I-10, traffic was moved to a C/D road within the interchange and cloverleaf ramps were closed during construction. Two temporary traffic signals were designed to facilitate traffic at this interchange. This project included data collection and queue and safety analyses and traffic signal design. Bert was responsible for the overall study including overseeing the data collection review, conducting the queue and safety analysis, implementing the proper traffic control plans, development of the TMP report, the design of two temporary traffic signals and QA/QC.
05/21 – Ongoing	**MOVEBR, LA 30 (Nicholson Drive) Segment 2	*Project Executive.*** Gresham Smith is performing a traffic study for capacity improvements along LA 30 (Nicholson Drive) from Lee/College Drive to Bluebonnet Blvd in Baton Rouge, LA.. The project includes data collection, safety analysis, and existing and future analysis.
Certifications (See section 20)	• DOTD Traffic Engineering Process & Report – Modules 1, 2 and 3 • U.S. Department of Transportation Federal Highway Administration – DPFA Certification • LADOTD – Highway Safety Manual Workshop NCHRP 17-38 • Louisiana Local Technical Assistance Program – Regional Crash Data Workshop • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

16. Staff Experience:

Gresham Smith

Rebecca Murray, P.E., PTOE, RSP1
Deputy Project Manager / Traffic Engineer

Years of experience with this employer	7
Years of experience with other employer(s)	0

Degree(s) / Years / Specialization	Bachelor of Science / 2015 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0043788 / LA / Exp. 3/31/24 | PTOE 4861 / Exp. 3/26/23 | RSP1 611 / Exp. 4/5/24		
Year registered	2019 (LA) 2020 (PTOE) 2021 (RSP1)	**Discipline**	P.E./Civil; PTOE; RSP1
Contract role(s) / brief description of responsibilities	Deputy Project Manager / Traffic Engineer - Rebecca will lead and support various tasks throughout the project as well as assist Bert with overall project management.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.***, **"designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
03/16 – 10/17	**LADOTD Traffic Engineering Retainer Contract, TO #1, Farmerville State and Local Roads Study, Farmerville, LA | *Pre-Professional.*** Rebecca's role was to review traffic and crash data, develop growth rates, perform existing and proposed traffic analysis, develop alternatives and prepare the project report.
10/28 – Ongoing	**LADOTD Traffic Engineering Retainer Contract, TO #6, LCG Adaptive Traffic Signal System, Lafayette, LA | *Traffic Engineer.*** Rebecca is responsible for coordinating field data collection, travel time studies and developing design of traffic signals.
05/17 – 03/19	**LADOTD, Traffic Engineering Retainer Contract, TO #2, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA | *Pre-Professional.*** Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design. Rebecca was responsible for overseeing data collection, participated on the RSA team, conducting safety analysis, development of VISSIM models, development of alternatives and development of the report.
07/18 – 12/21	**LADOTD, LA 37: Sullivan Road to Liberty Road Stage 0 Feasibility Study, Baton Rouge, LA | *Engineer.*** Gresham Smith collected and reviewed over 580 crash reports over a span of three years from the state highway crash database and collected ADT data on 21 segments of LA 37 and intersecting streets, peak hour turning movement counts at 12 significant intersections and 15-minute counts along 38 driveways and insignificant side streets. Rebecca assisted with review of the count data, development of growth rates, crash data analysis, performed the existing and future traffic analysis, performed the safety effectiveness evaluation and developed the benefit-cost ratios for the alternatives.
10/17 – 04/18	**LADOTD Traffic Engineering Retainer Contract, TO #4, I-10 at US 90 Lockmoor Bridge Transportation Management Plan (TMP), H.013076.5-1, Lake Charles, LA | *Pre-Professional.*** LADOTD oversaw the design of planned bridge maintenance of the US 90 bridge that operates as an on ramp to I-10 Eastbound. This bridge crosses over mainline I-10 for both the Eastbound and Westbound directions as well as the Westbound Off Ramp and Eastbound On Ramp to/from PPG drive. We were selected to develop the TMP to identify the challenges and strategies to address these challenges in order to minimize the traffic delays

	associated with the lane closures, demand volumes and incidents within the construction limits. Rebecca assisted with the traffic and crash analysis and the TMP documentation.
04/18 – 04/19	**LADOTD Traffic Engineering Retainer Contract, TO #5, I-10 Transportation Management Plan (TMP) West of 108 to I-210 Interchange, H.009620.5, Calcasieu Parish, LA	*Pre-Professional*.** LADOTD developed design plans for the Rubblization and Overlay of I-10 from just west of the LA 108 interchange to the I-210 interchange. This project includes a full closure on I-10 diverting traffic to the ramps. This diversion required 2 cloverleaf ramps to be closed and temporary traffic signals to be installed at the ramps. Rebecca assisted with the traffic and crash analysis, and the development of the TMP documentation for this project and revision of the TMP that was performed the I-210 redecking project as well as traffic signal design plans for the traffic signals.
05/21 – Ongoing	**MOVEBR, LA 30 (Nicholson Drive) Segment 2	*Lead Traffic Engineer*.** Gresham Smith is performing a traffic study for capacity improvements along Nicholson Drive in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis. Rebecca's responsibilities for the traffic study included review of traffic count data, development of volumes, modeling the existing and proposed roadway networks using HCS software, crash analysis, alternative analysis and writing a report to summarize the findings. This project followed LADOTD's Traffic Engineering Process and Report guidelines.
03/21 – Ongoing	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA	*Engineer.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians. Rebecca is leading the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, existing safety analysis, and developing proposed pedestrian accomodations at signalized intersections using LADOTD and Baton Rouge City-Parish standards.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1 Group 3 and Phase 2 Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Lead Traffic Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans. Rebecca led the efforts for the traffic design report including traffic and pedestrian data collection, existing and future analysis using Synchro, and developing proposed traffic signal timing plans using LADOTD and Baton Rouge City-Parish standards.
11/17 – 01/18	**LADOTD, SRTS/LRSP Task Order 12: Constitution Drive Safety Study, West Monroe, LA	*Pre-Professional.*** Rebecca's role was to review traffic and crash data, perform traffic analysis, develop alternatives and the project report as well as assist with the design of pedestrian improvements and traffic signal plans
05/17 – 01/19	**LADOTD Traffic Engineering Retainer Contract, TO #3, US 171 MLK Boulevard Traffic Study, Lake Charles, LA	*Pre-Professional.*** Gresham Smith was selected to develop a calibrated VISSIM model for existing conditions and the future no-build conditions along US 171 in Lake Charles, LA. Alternative improvements were recommended and modeled to determine the best solutions to improve the corridor. The project included data collection, development of growth rates, developing and calibrating an existing VISSIM model and evaluation and development of alternatives. Rebecca's role was to oversee data collection, develop a data collection report, perform the safety analysis, develop VISSIM models for 6 alternatives and calibrate the models, develop presentation material for the public meeting and development of the final report.
05/21 – Ongoing	**MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA	*Engineer.*** Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Boulevard between South Harrell's Ferry Road and Old Hammond Highway in support of the Sherwood Forest Boulevard Multi-Use Path design project. Design plans will be developed to add pedestrian signals to the existing traffic signals with the goal of upgrading existing intersections up to current ADA requirements for pedestrians.

16. Staff Experience:

Gresham Smith

Tait Karlson, P.E., PTOE
Senior Traffic Engineer

Years of experience with this employer	10
Years of experience with other employer(s)	6

Degree(s) / Years / Specialization	Master of Engineering / 2005 / Transportation Engineering, University of Florida Bachelor of Science / 2001 / University of Florida		
Active registration number / state / expiration date	PE.0040438 / LA / Exp. 9/30/24 | PTOE 2213 / Exp. 7/30/23		
Year registered	2016 (LA) 2011 (PTOE)	**Discipline**	P.E./Civil; PTOE
Contract role(s) / brief description of responsibilities	Senior Transportation Engineer / Tait will support the traffic design and analysis portions of the contract.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/18 – 12/21	**LADOTD, LA 37: Sullivan Road to Liberty Road Stage 0 Feasibility Study, Baton Rouge, LA | *QA/QC*.** Gresham Smith collected and reviewed over 580 crash reports over a span of three years from the state highway crash database and collected ADT data on 21 segments of LA 37 and intersecting streets, peak hour turning movement counts at 12 significant intersections and 15-minute counts along 38 driveways and insignificant side streets. Crash reports were reviewed and evaluated using the LADOTD safety triage and the safety tool box. Traffic analysis was performed using mainly HCS and Synchro and other software tools as needed. Gresham Smith reviewed historic traffic volumes counts and TransCAD models and performed an extensive count analyses to develop regional growth rates for the study area. Our team evaluated the effectiveness of safety improvements using the Highway Safety Manual (HSM), we identified Safety Performance Functions (SPFs) to determine Level of Service of Safety. To compare alternatives, benefit-cost ratio and net present value analyses were performed. Tait assisted with the development of the final report and performed QA/QC review.
05/17 – 03/19	**LADOTD Traffic Engineering Retainer Contract, TO #2, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA | *QA/QC.*** Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design. The project included data collection, development of growth rates, conduct a Road Safety Assessment, developing and calibrating an existing VISSIM model and evaluation of the proposed alternative. Tait assisted with the development of the final report and performed the QA/QC reviews.
03/16 – 10/17	**LADOTD Traffic Engineering Retainer Contract, TO #1, Farmerville State and Local Road Traffic Study, Farmerville, LA | *Engineer.*** Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around the City of Farmerville on both state and local routes. The project included data collection, safety/crash review, development of growth rates, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Gresham Smith held a public meeting with local elected officials and met with many local agencies during the process to discuss the scope of the study, the results and possible alternatives. Tait assisted with the development of the final report and performed QA/QC review.

10/28 – Ongoing	**LADOTD Traffic Engineering Retainer Contract, TO #6, LCG Adaptive Traffic Signal System, Lafayette, LA	*Engineer.*** Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading 190 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of 190 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel studies.
05/17 – 03/19	**LADOTD Traffic Engineering Retainer Contract, TO #3, US 171 MLK Boulevard Traffic Study, Lake Charles, LA	*Engineer.*** Gresham Smith was selected to develop a calibrated VISSIM model for existing conditions and the future no-build conditions along US 171 in Lake Charles, LA. Alternative improvements were recommended and modeled to determine the best solutions to improve the corridor. The project included data collection, development of growth rates, developing and calibrating an existing VISSIM model and evaluation and development of alternatives. Tait assisted with performing peak hour field observations, developing VISSIM models for existing, no-build and the alternatives, calibrating the models, developing the final report, and performing QA/QC review.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA	*QA/QC.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.
05/21 – Ongoing	**MOVEBR, Nicholson Drive Segment 2	*QA/QC*.** Gresham Smith is performing a traffic study for capacity improvements along Nicholson Drive in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.
10/17 – 04/18	**LADOTD Traffic Engineering Retainer Contract, TO #4, I-10 at US 90 Lockmoor Bridge Transportation Management Plan (TMP), H.013076.5-1, Lake Charles, LA	*QA/QC*.** LADOTD oversaw the design of planned bridge maintenance of the US 90 bridge that operates as an on ramp to I-10 Eastbound. This bridge crosses over mainline I-10 for both the Eastbound and Westbound directions as well as the Westbound Off Ramp and Eastbound On Ramp to/from PPG drive. We were selected to develop the TMP to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits.
04/18 – 05/19	**LADOTD Traffic Engineering Retainer Contract, TO #5, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA	*QA/QC.*** Tait assisted with the development of the final report and performed QA/QC review.
05/21 – Ongoing	**MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA	*Engineer.*** Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Boulevard between South Harrell's Ferry Road and Old Hammond Highway in support of the Sherwood Forest Boulevard Multi-Use Path design project. Design plans will be developed to add pedestrian signals to the existing traffic signals with the goal of upgrading existing intersections up to current ADA requirements for pedestrians.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.

16. Staff Experience

Gresham Smith

Meredith Cebelak, Ph.D., P.E.

Traffic Engineer

Years of experience with this employer	7
Years of experience with other employer(s)	14

Degree(s) / Years / Specialization	Doctor of Philosophy/2015/ Civil Engineering, University of Texas; Master of Science/2013/Civil Engineering, University of Texas; Bachelor of Science/2001/ Civil Engineering, University of Florida		
Active registration number / state / expiration date	PE.0039985 / LA / Exp. 3/31/24 | PE. 65586 / FL / Exp. 2/28/23		
Year registered	2017 (LA) 2007 (FL)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Senior Engineer / Meredith will support the traffic analysis and design teams.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
Career	Meredith brings over 20 years of experience managing and designing a multitude of transportation projects that implement TSM&O projects that improve safety and mobility through traffic operations and management strategies. Her experience includes design and deployment of traffic signals and ITS devices, traditional signal retiming and optimization, traveler information systems, and design of the communication infrastructure to support these systems. In addition to her project experience, Meredith has been actively involved in the transportation research community and her areas of expertise include cutting edge ITS solutions, big data and its role in transportation planning, Automated Traffic Signal Performance Measures (ATSPMs) and Connected Autonomous Vehicles (CAV), and freight mobility.
05/21 – Ongoing	**MOVEBR, Nicholson Drive Segment 2 | *ITS Engineer.*** Gresham Smith is performing a traffic study for capacity improvements along Nicholson Drive in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
05/21 – Ongoing	**MOVEBR, Sherwood Forest Boulevard Multi-Use Path | *Engineer*.** Gresham Smith is performing a traffic study for pedestrian improvements along Sherwood Forest Boulevard in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA | *Engineer.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.

11/15 – 4/16	**LADOTD, ITS Design & Implementation WO#4: I-10 Twin Span ITS, Orleans & St. Tammany Parishes, Statewide, LA	*QA/QC.*** Gresham Smith was tasked with the design and post-design of the I-10 Twin Spans ITS project. During the design period, Meredith performed QA/QC.
7/16 – 3/17	**LADOTD, ITS Design & Implementation, WO#5: I-12 Ramp Meter Upgrades, East Baton Rouge and Livingston Parishes, LA	*Engineer.*** Gresham Smith performed a feasibility assessment on the existing ramp meters along I-12 which included reviewing the existing system components, determining status of functionality, performing best practices research, and developing recommendations and typical layouts. Meredith developed the best practices for ramp metering. This review looked at ramp metering deployments across the US and included a review of the different operational strategies used and geometric layouts.
04/21 – Ongoing	**LCG Johnston Street Lighting, Lafayette, LA	*ITS Engineer*.** Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3 miles section of Johnston Street (US 167) through Vermillion and Lafayette Parishes. LADOTD has a J-Turn project that is currently removing the street lighting within the median of Johnston Street.
4/14 – Ongoing	**City of Franklin, Engineering Services for Adaptive Signal Control Technology Implementation and Infrastructure Construction, Franklin, TN	*Project Manager, Engineer of Record.*** Meredith is responsible for management of the project as well as the design plans and technical support, and before and after studies for the City's first adaptive system. She assisted the City with the selection of their adaptive vendor through an RFQ process. She is responsible for the design of the detection and hardware platforms for the adaptive system and will be providing the City with cost estimates and bid documents. Finally, she will be aiding the City with the inspection and testing of the selected adaptive software which will include the identification of performance measures for use by the City.
2/17 – 10/17	**LADOTD, ITS Design & Implementation WO#7: Signal Communications Upgrade Phase 1 – SEA, Various Locations, LA	*QA/QC.*** Gresham Smith developed the Systems Engineering Analysis (SEA) for the Signal Communications Upgrade project. The project included defining the high level requirements, developing the concept of operations, laying out operational strategies, determining the length of the expansion, how many signals to be connected, any additional hardware or software requirements, and how it may be implemented and used by partner agencies. The project included 38 signals along 9 corridors. Meredith was responsible for QA/QC.

16. Staff Experience:

Gresham Smith

Kari Pucker, P.E., PTOE, RSP1, IMSA II

TSM&O Engineer

Years of experience with this employer	1
Years of experience with other employer(s)	8

Degree(s) / Years / Specialization	Master of Civil Engineering / 2016 / Civil Engineering, University of North Florida		
Active registration number / state / expiration date	PE.0085443 / FL / Exp. 2/28//23 | PTOE 85443 / Exp. 6/30/23 | IMSA 111918 Exp. 12/3/23		
Year registered	2018 (PE) 2020 (PTOE) 2020 (IMSA II)	**Discipline**	P.E./Civil | PTOE, RSP1, IMSA II
Contract role(s) / brief description of responsibilities	Bridge Engineer / Keri will assist with VISSIM modeling.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
Career	Kari has significant experience in transportation engineering, planning, and PD&E studies, with a focus on traffic operations and safety, ITS design, and travel demand modeling. She is skilled in traffic volume development, crash analyses, safety analyses, signal warrant studies, lighting justification reports, and GIS analysis. Kari is well-versed in VISSIM and Synchro.
06/20 – Ongoing	**Blueprint, Lake Jackson Greenway, Tallahassee, FL | *Engineer of Record*.** Kari is the Engineer of Record for signalization and lighting on this project. Her responsibilities include placement of RRFBs at midblock crosswalks, lighting modeling and design, and oversight of plans preparation. This project will develop a new greenway, trail, and bike route system connecting the Outstanding Florida Waterbody, Lake Jackson, with the heart of Tallahassee, including connections to Lake Jackson Mounds Archaeological State Park, Okeeheepkee Prairie Park, the Meginnis Arm paddle craft launch and parking area, Trousdell Pond, and Lake Ella.
02/21 – Ongoing	**KYTC, Highway Safety Improvement (HSIP) Program, Louisville, KY | *Project Engineer*.** Kari was responsible existing conditions inventory drawings and SALSA spreadsheets to make recommendations for signal backplates.
08/01 – Ongoing	**LADOTD, LRSP TO #6 (LA-14: US 90 to Power Center Pkwy) Traffic Report, Lake Charles, LA | *Project Engineer*.** Gresham Smith is preparing and coordinating a traffic report to analyze no build and future conditions to identify possible pedestrian mitigation alternatives along LA 14 from US 90 (Fruge Street) to Power Centre Pkwy. This traffic report is being prepared in conjunction with the DOTD Engineering Directives and Standards Manual (EDSM).
10/20 – Ongoing	**Ascension Parish, TO #2 LA 621 Realignment Mitigation, Ascension, LA | *Project Engineer*.** Gresham Smith shall prepare and coordinate a traffic study to analyze existing and future conditions along LA 73 from the I-10 westbound terminal to near Norris Trail and LA 621 corridor from LA 73 to east of L Landy Rd to ensure that the mitigation of the realignment of LA 621 will cause no adverse effects to the study area.

16. Staff Experience

Gresham Smith

Julian Bordelon, E.I., IMSA

Engineer Intern

Years of experience with this employer	3
Years of experience with other employer(s)	0

Degree(s) / Years / Specialization	Bachelor of Science / 2018 / Electrical Engineering, Louisiana State University		
Active registration number / state / expiration date	EI.0034032 / LA | IMSA *passed and awaiting certificates		
Year registered	2019 (PE) 2022 (IMSA)	**Discipline**	Engineer Intern / (Julian has passed the EE PE exam and will l reaches his 4 years of experience in Dec 22).
Contract role(s) / brief description of responsibilities		Assistant Project Engineer / Julian will support traffic signal inventory, design, and inspection tasks.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
12/18 – Ongoing	**LADOTD Traffic Engineering Retainer Contract, TO #6, LCG Adaptive Traffic Signal Design and Implementation, Lafayette Parish, LA | *Pre-Professional.*** Julian assisted with the traffic signal design plans for the 190 traffic signals including detection and emergency vehicle preemption devices and was responsible for field verification of traffic signal inventory (TSI) of LCG system, design plans for adaptive signal control intersections, and integration when the system is completed.
02/18 – 09/21	**LADOTD, ITS CEI Retainer, Signal Communications Upgrade Phase 1, CEI, Various, LA | *Pre-Professional*.** Gresham Smith is providing Construction Engineering Inspection Services, including a Project Engineer, on-site daily/nightly inspection and technical construction inspection, throughout the course of construction. Julian assisted with construction contract administration, field investigations, integration and testing, and construction inspection.
09/16 – 09/17	**LADOTD, ITS Design, Integration and System Verification Services, WO#3: ATMS.Now Design and Integration, Statewide, LA | *Pre-Professional.*** Seeking to replace the existing obsolete system with a more unified traffic control system, the LADOTD upgraded to Trafficware's ATMS.Now, a central management system that unified the traffic signal systems statewide and allowed more effective and efficient monitoring and control.
08/15 – 11/18	**LADOTD, ITS Design & Implementation WO#4: I-10 Twin Span ITS-Orleans & St. Tammany Parishes, Statewide, LA | *Pre-Professional.*** Gresham Smith developed design plans along with specifications and cost estimates for the eight-mile I-10 Twin Span ITS project. The project retrofitted ITS equipment along the corridor utilizing existing fiber, electrical systems, cabinets, camera poles, a Dynamic Message Sign (DMS) structure, a communications hut and a bridge health system.
02/20 – Ongoing	**KYTC, I-Move Design-Build, Jefferson and Oldham Counties, KY | *Pre-Professional.*** The project includes the ITS design for CCTV cameras and Dynamic Message Signs (DMS) along I-265, I-71 and I-64 in Jefferson and Oldham Counties. Julian is assisting in the development of the typical details and plans preparation.
12/18 – Ongoing	**TDOT, ITS Design Support Services WO#7: I-40 Nashville ITS Expansion, Nashville, TN | *ITS Systems Specialist.*** Julian is assisting with the electrical design and voltage drop calculations and back checking of plans.

12/18 – Ongoing	**TDOT, ITS Design Support Services WO#8: Cumberland Plateau I-40 ITS Expansion, Cookeville, TN | *ITS Systems Specialist.*** Julian is assisting with the electrical design and voltage drop calculations and back checking of plans.
06/21 – 05/22	**LADOTD, ITS CEI WO #4: Fiber Optic Mapping & Management, Lafayette, West Baton Rouge, Pointe Coupee, St. Landry and Rapides Parishes, LA | *Pre-Professional*.** This project is the next section for the implementation of the Fiber Optic Mapping & Management. Julian was responsible for data entry, document development and quality control.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Pre-Professional*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal consruction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Pre-Professional*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
05/21 – Ongoing	**MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA | *Pre-Professional.*** Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Boulevard between South Harrell's Ferry Road and Old Hammond Highway in support of the Sherwood Forest Boulevard Multi-Use Path design project. Design plans will be developed to add pedestrian signals to the existing traffic signals with the goal of upgrading existing intersections up to current ADA requirements for pedestrians.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA | *Pre-Professional.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.
12/19 – 08/20	**ALDOT, US 84 Traffic Signal Analysis, Design, Conceptual Drawing & Cost Estimate, Dothan, AL | *Pre-Professional*.** Gresham Smith was responsible for collecting and performing signal warrants, signal analysis, signal design and signal timing.
Certifications (See section 20)	• TEPR Certification

16. Staff Experience:

Gresham Smith

Payton Nickles

Professional

Years of experience with this employer	1
Years of experience with other employer(s)	0

Degree(s) / Years / Specialization	Bachelor of Science / 2021 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Professional / Payton will support traffic analysis and traffic design teams.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/21 – Ongoing	**MOVEBR, LA 30 (Nicholson Drive) Segment 2 | *Professional.*** Gresham Smith is performing a traffic study for capacity improvements along Nicholson Drive in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.
05/21 – Ongoing	**MOVEBR, Sherwood Forest Boulevard Multi-Use Path | *Professional*.** Gresham Smith is performing a traffic study for pedestrian improvements along Sherwood Forest Boulevard in Baton Rouge, LA. The project includes data collection, safety analysis, and existing and future analysis.
03/21 – Ongoing	**LADOTD, Complex Bridge Inspections Task Order 3, Statewide, LA | *Professional*.** Payton assisted in the development of the traffic control plans for various bridge inspection projects. The traffic control plans included single lane closures with alternating traffic with flaggers for projects in urbanized areas. Projects included the Charenton Truss Swing Bridge in St. Mary's Parish and the Jeanerette Truss Swing Bridge in Iberia Parish. Peyton worked closely with the bridge inspection team to develop the parameters for the lane closures to ensure that adequate protection was provided to the field inspection team while meeting requirements from LA DOTD's traffic control standards.
06/21 – Ongoing	**EBR DTD, MovEBR-Plank Road Corridor Enhancement, Baton Rouge, LA | *Professional.*** This project is a design study along a portion of the Plank Road corridor between Dawson Drive and Harding Blvd. Payton's responsibilities include assisting the design engineer with the development of Typical Sections and Plan and Profile Sheets. She is also responsible for addressing general markups in MicroStation.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA | *Professional.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.
08/01 – Ongoing	**LADOTD, LRSP TO #6 (LA-14: US 90 to Power Center Pkwy) Traffic Report, Lake Charles, LA | *Professional*.** Gresham Smith is preparing and coordinating a traffic report to analyze no build and future conditions to identify possible pedestrian mitigation alternatives along LA 14 from US 90 (Fruge Street) to Power Centre Pkwy. This traffic report is being prepared in conjunction with the DOTD Engineering Directives and Standards Manual (EDSM).

03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Engineer*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – 04/21	**Edinburg Regional Medical Center, Traffic Impact Analysis, Edinburg, TX | *Professional*.** Payton assisted in the development of the traffic impact letter by performing analysis and preparing figures to support the traffic impact analysis for roadway expansion associated with the buildout of a regional medical center. Payton worked under the supervision of the lead traffic engineer to develop roadway capacity analysis and documentation of existing conditions to support the proposed roadway build outs.
Certifications (See section 20)	• TEPR Certification

16. Staff Experience:

Gresham Smith

Zillah Zoleta, E.I.

Engineer Intern

Years of experience with this employer	<1
Years of experience with other employer(s)	0

Degree(s) / Years / Specialization	Bachelor of Science / 2022 / Civil Engineering / Louisiana State University		
Active registration number / state / expiration date	N/A		
Year registered	2022	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Engineer Intern / Zillah will support the traffic analysis and traffic design teams.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
05/21 – Ongoing	**MOVEBR, LA 30 (Nicholson Drive) Segment 2	*Engineer Intern.*** Zillah assisted the design engineer with the safety analysis by reviewing crashes and using spreadsheets to track crash trends. She also created collision diagrams using Microstation.
05/21 – Ongoing	**MOVEBR, Sherwood Forest Boulevard Multi-Use Path	*Engineer Intern*.** Zillah assisted the design engineer with the safety analysis by reviewing crashes and using spreadsheets to track crash trends. She also created collision diagrams using Microstation.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Engineer Intern*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Engineer Intern*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
05/21 – Ongoing	**LADOTD, FOMM-Lafayette/US 190/Alexandria	*Engineer Intern*.** Zillah has assisted on this project by inputting data into the NexusWorx system and performing QA/QC on the data collected in the field.
06/21– Ongoing	**LADOTD, Complex Bridge Inspections Task Orders 4, 5 and 6, Statewide, LA	*Engineer Intern*.** Zillah assisted in the development of the traffic control plans for various bridge inspection projects. The traffic control plans included single lane closures with alternating traffic with flaggers for projects in urbanized areas. Zillah worked closely with the bridge inspection team to develop the parameters for the lane closures to ensure that adequate protection was provided to the field inspection team while meeting requirements from LA DOTD's traffic control standards.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA	*Engineer Intern.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.

16. Staff Experience:

Gresham Smith

Kendra McCoy
Traffic and Safety Specialist

Years of experience with this employer	9
Years of experience with other employer(s)	23

Degree(s) / Years / Specialization	Bachelor of Science / 2012 / Project Management, DeVry University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Traffic and Safety Specialist / Kendra will support the traffic and safety tasks.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.***, **"designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
03/16 – 10/17	**LADOTD Traffic Engineering Retainer Contract, TO #1, Farmerville State and Local Road Traffic Study, Farmerville, LA | *Safety Specialist.*** Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around the City of Farmerville on both state and local routes. The project included data collection, safety/crash review, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Kendra was responsible for review of crash reports, data collection and document development.
05/17 – 03/19	**LADOTD Traffic Engineering Retainer Contract, TO #2, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA | *Safety Specialist.*** Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design. The project included data collection, development of growth rates, conduct a road safety assessment, developing and calibrating an existing VISSIM model and evaluation of the proposed alternative. Kendra was responsible for reviewing crash reports, data collection and document development.
05/18 – 12/21	**LADOTD, LA 37: Sullivan Road to Liberty Road Stage 0 Feasibility Study, Baton Rouge, LA | *Safety Specialist.*** Gresham Smith collected and reviewed over 580 crash reports over a span of three years from the state highway crash database and collected ADT data on 21 segments of LA 37 and intersecting streets, peak hour turning movement counts at 12 significant intersections and 15-minute counts along 38 driveways and insignificant side streets. Crash reports were reviewed and evaluated using the LADOTD safety triage and the safety tool box. Traffic analysis was performed using mainly HCS and Synchro and other software tools as needed. Gresham Smith reviewed historic traffic volumes counts and TransCAD models and performed an extensive count analyses to develop regional growth rates for the study area. Our team evaluated the effectiveness of safety improvements using the Highway Safety Manual (HSM), we identified Safety Performance Functions (SPFs) to determine Level of Service of Safety. To compare alternatives, benefit-cost ratio and net present value analyses were performed. Kendra was responsible for review of crash reports, data collection and document development.
05/17 – 01/19	**LADOTD Traffic Engineering Retainer Contract, TO #3, US 171 MLK Boulevard Traffic Study, Lake Charles, LA | *Safety Specialist.*** Kendra was responsible for review of crash reports, data collection and document development.

04/18 – 05/19	**LADOTD Traffic Engineering Retainer Contract, TO #5, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA	*Senior Technician.*** Gresham Smith developed a TMP for the Rubbelization and Overlay on I-10 between I-210 and the LA 108 Interchange. This project included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. In order to replace the concrete panels on I-10, traffic was moved to a C/D road within the interchange and cloverleaf ramps were closed during construction. Two temporary traffic signals were designed to facilitate traffic at this interchange. This project included data collection and queue and safety analyses and traffic signal design. Kendra was responsible for review of crash reports, data collection and document development.
10/17 – 04/18	**LADOTD Traffic Engineering Retainer Contract, TO #4, I-10 at US 90 Lockmoor Bridge Transportation Management Plan (TMP), H.013076.5-1, Lake Charles, LA	*Senior Technician*.** LADOTD oversaw the design of planned bridge maintenance of the US 90 bridge that operates as an on ramp to I-10 Eastbound. This bridge crosses over mainline I-10 for both the Eastbound and Westbound directions as well as the Westbound Off Ramp and Eastbound On Ramp to/from PPG drive. We were selected to develop the TMP to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits.
10/28 – Ongoing	**LADOTD Traffic Engineering Retainer Contract, TO #6, LCG Adaptive Traffic Signal System, Lafayette, LA	*Senior Technician.*** Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading 190 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of 190 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel studies.
05/21 – Ongoing	**MOVEBR, Nicholson Drive Segment 2	*Safety Specialist.*** Gresham Smith is performing a traffic study for capacity improvements along Nicholson Drive in Baton Rouge. Includes data collection, safety analysis, & existing & future analysis.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA	*Safety Specialist.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Senior Technician.*** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA	*Senior Technician.*** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
05/21 – Ongoing	**MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA	*Safety Specialist.*** Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Boulevard between South Harrell's Ferry Road and Old Hammond Highway in support of the Sherwood Forest Boulevard Multi-Use Path design project. Design plans will be developed to add pedestrian signals to the existing traffic signals with the goal of upgrading existing intersections up to current ADA requirements for pedestrians.

16. Staff Experience:

Gresham Smith

Daniel Knott
Senior Technician

Years of experience with this employer	4
Years of experience with other employer(s)	38

Degree(s) / Years / Specialization	IMSA / Traffic Signal Field Technician Level II, IMSA / Fiber Optics Level II, Light Brigade / Fiber Optic Design, Installation, and Maintenance		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Senior Technician / Daniel will support the team with traffic signal inventories and drafting for traffic signal designs.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.***, **"designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
12/18 – Ongoing	**LADOTD Traffic Engineering Retainer Contract TO #6, LCG Adaptive Traffic Signal System, Adaptive Traffic Signal Design and Implementation, Lafayette Parish, LA | *Designer/Senior Inspector.*** Daniel supported field verification of LCG's TSI, design plans for adaptive signal control intersections, and integration when the system is completed.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 1, Group 3 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Designer/Senior Inspector*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
03/21 – Ongoing	**MovEBR, Contract for Signal Rebuild Phase 2, Group 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA | *Designer/Senior Inspector*.** Gresham Smith shall perform engineering services for signal rebuilds in support for the Synchronization and Communication Signal Rebuild project. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans.
05/21 – Ongoing	**MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA | *Senior Inspector.*** Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Boulevard between South Harrell's Ferry Road and Old Hammond Highway in support of the Sherwood Forest Boulevard Multi-Use Path design project. Design plans will be developed to add pedestrian signals to the existing traffic signals with the goal of upgrading existing intersections up to current ADA requirements for pedestrians.
03/21 – 03/21	**MovEBR, Bluebonnet Boulevard Sidewalks (North Mall Dr. to Bluebonnet Centre Blvd.) City-Parish Project No. 20-EN-HC-0029, East Baton Rouge, LA | *Senior Inspector.*** Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project will be this project will bring this existing intersection up to current ADA requirements for pedestrians.
3/18 – 9/21	**LADOTD, ITS CEI Retainer, Signal Communications Upgrade Phase 1, CEI, Various, LA | *Senior Inspector*.** Daniel was responsible in leading the daily field CE&I inspections, logging in the dailies, and ensuring project requirements were followed.

16. Staff Experience:

Gresham Smith

Jay Bockisch, P.E., PTOE, RSP1

Technical Advisor & QA/QC

Years of experience with this firm/employer	18
Years of experience with other firm(s)/employer(s)	19

Degree(s) / Years / Specialization	Bachelor of Science / 1986 / Civil Engineering, University at Buffalo		
Active registration number / state / expiration date	PE. 78389 / FL / 2/28/2023		
Year registered	2014	**Discipline**	P.E./Civil | PTOE | RSP1
Contract role(s) / brief description of responsibilities	Jay will serve as Technical Advisor and QA/QC.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
Career	Jay has extensive experience in traffic engineering, signal timing, safety analysis, ITS, travel demand forecasting, and traffic simulation and traffic operations. His experience includes the management and preparation of more than 350 traffic studies, safety studies, traffic operations analysis, preliminary roadway improvement design, traffic signal timing plans and area-wide master planning studies. Jay's ability to think at a high level and see the most minute details has been critical in his career of both designing and dealing with the public. His expertise includes over 50 transportation projects where he has given expert testimony and led public information meetings.
06/20– Ongoing	**FDOT D3, Traffic Safety Studies Consultant - TWO 03 - 3R Safety Reviews, Chipley, FL | *Project Manager*.** Jay was responsible for developing the study and report. A safety analysis was undertaken along approximately 1 mile section of SR 189 in Fort Walton Beach. Crashes were evaluated at both intersections and driveways to determine recommendations to improve safety. The focus was on improvements that were low cost and could be implemented as part of the 3R project.
03/16 – 12/20	**FDOT D3 - SR 30 (US 98) Multi-Lane Reconstruction from CR 457 to CR 30A West, Walton, FL | *Lead Traffic Engineer*.** Jay was responsible for developing design year traffic, turn lane requirements and signalization requirements. This capacity project primarily consists of widening SR 30 from four to six lanes from CR 457 (Mack Bayou Road) to CR 30A West.
10/16 – Ongoing	**FDOT D3 - Gulf Coast Parkway, New Two-Lane Rural Alignment from CR 2315 to SR 30A, Bay County, FL | *Lead Traffic Engineer*.** Jay was responsible for developing design year traffic, turn lane requirements and signalization requirements. The proposed Gulf Coast Parkway project is a new two-lane roadway, located within a 250-foot-wide right-of-way corridor. This capacity project primarily consists of constructing a new high-speed rural facility connecting CR 2315 (Star Avenue) to SR 30A (Tyndall Parkway). The Gulf Coast Parkway project is a new two-lane roadway, located within a 250-foot-wide right-of-way corridor. This capacity project primarily consists of constructing a new high-speed rural facility connecting CR 2315 (Star Avenue) to SR 30A (Tyndall Parkway).

16. Staff Experience:

Gresham Smith

Mario Dipola, P.E., PTOE, RSP1

Technical Advisor & QA/QC

Years of experience with this firm/employer	1
Years of experience with other firm(s)/employer(s)	12

Degree(s) / Years / Specialization	Master of Business Administration / 2013 / Business Administration, University of Florida Bachelor of Science / 2008 / Civil Engineering, University of Central Florida		
Active registration number / state / expiration date	PE. 76418 / FL / 2/28/2023		
Year registered	2013	**Discipline**	P.E./Civil | PTOE | RSP1
Contract role(s) / brief description of responsibilities	Mario will serve as Technical Advisor and QA/QC.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
Career	Mario has abundant experience specializing in project management and traffic operations. His technical work varies from pedestrian improvements to interstate reconstruction via multiple roles. He managed FDOT's Value Engineering program in D1 (major projects) while he was PM for minor projects (resurfacing, traffic operations, safety, sidewalk). Mario has experience with Intersection Control Evaluation (ICE) analyses, benefit/cost studies, net present value analyses and other traffic and safety studies.
12/18 – 05/21 With Another Firm	**FDOT D5, Safety D/W, FL | *Team Lead*.** Mario provided traffic engineering services on three task work orders that consisted of intersection and safety studies throughout District 5.
06/17 – 12/18 With FDOT	**FDOT D2, District Safety Engineer, Jacksonville, FL | *District Safety Engineer*.** Mario managed the District's safety studies contract, the off-system safety program and the SRTS program.
11/14 – 06/17 With FDOT	**FDOT D2, Safety Program Engineer, Jacksonville, FL | *Safety Program Engineer*.** Mario managed the Work Program for District 2's Office of Safety, as well as the design-build pushbutton contract. He also assisted with Road Safety Audits and Safety Studies and participated in Technical Review Committees.
12/18 – 05/21 With Another Firm	**FDOT District 3, I-10 and I-110 Interchange, Pensacola, FL | *Lead Signing & Pavement Marking Engineer, Project Manager*.** Mario was the signing and pavement marking EOR for this project which implemented High Friction Surface Treatment (HFST) at the I-10 & I-110 interchange in District 3. Mario brought his Project Manager experience to this project, as he recently managed 5 overlapping contracts as D2 Safety Engineer.
12/18 – 05/21 With Another Firm	**FDOT D2, SR 152 (Baymeadows Rd) Turn Lane & Signals Project, Jacksonville, FL | *QC*.** Mario assisted with design variation preparation and QC review on this project to enhance safety and efficiency at SR 152 (Baymeadows Road). The project included signal and turn lane design.

16. Staff Experience:

Gresham Smith

Joel Morrill, P.E., RSP1

Technical Advisor & QA/QC

Years of experience with this firm/employer	7
Years of experience with other firm(s)/employer(s)	20

Degree(s) / Years / Specialization	Bachelor of Science / 1994 / Civil Engineering, Union College		
Active registration number / state / expiration date	PE. 21234 / KY / 6/30/2024, 113174 / TN / 9/30/2022 | RSP1 422 / Exp. 3/26/23		
Year registered	2000 (KY) 2009 (TN) 2020 (RSP1)	**Discipline**	P.E./Civil | RSP1
Contract role(s) / brief description of responsibilities	Joel will serve as Technical Advisor and QA/QC.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
06/17 – Ongoing	**KYTC, Highway Safety Improvement Program (HSIP), Statewide, KY** | ***Project Manager****.* Joel is responsible for helping to manage the development of safety improvement alternatives to various intersections and corridors throughout the Commonwealth of Kentucky that are experiencing a higher-than-average number of injury crashes. Each project includes an inventory of existing site conditions, crash data collection and analysis, and development of improvement alternatives to help reduce crashes.
10/17 – Ongoing	**KYTC, KY 22, Performance-Based Practical Design, Owen County, KY | *Project Manager.*** Joel is responsible for managing the development of safety improvement alternatives to this 5-mile corridor. In addition to pavement deterioration, the corridor was experiencing roadway departure crashes, which were analyzed and considered in the proposed improvements.
11/13 – 06/15 With Another Firm	**Louisville Metro, US 31W (Dixie Highway), Louisville, KY | *Project Manager.*** Joel managed the design and plan development for this safety, mobility, multimodal, and access management improvement project along US 31W. This corridor experiences significantly more crashes than comparable roadways, particularly pedestrian crashes.
12/15 – Ongoing	**Louisville Metro, Rangeland Road, Louisville, KY | *Project Manager.*** Joel managed the development of construction plans, estimates, and technical specifications for safety, mobility, and multimodal improvements to this 1.25-mile urban roadway with two schools that was experiencing a high amount of crashes. Improvements included widening of the roadway, a new multi-use path, sidewalks, drainage, signal modifications, water quality treatment, utility relocations, and right-of-way acquisition.

16. Staff Experience:

Gresham Smith

Brennon Hughes, P.E.

Roadway Design Engineer

Years of experience with this firm/employer	5
Years of experience with other firm(s)/employer(s)	6.5

Degree(s) / Years / Specialization	Bachelor of Science / 2011 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0039985 / LA / 3/31/24		
Year registered	2015	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Roadway Design Engineer Brennon will lead the development of the conceptual designs and cost estimates.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
03/16 – 10/17	**LADOTD Traffic Engineering Retainer Contract, TO #1, Farmerville State and Local Road Traffic Study, Farmerville, LA | *Lead Roadway Engineer.*** Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around Farmerville. The project included data collection, crash review, development of growth rates, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Brennon responsible for assisting with the development of conceptual roadway improvements and cost estimates.
08/17 – Ongoing	**LADOTD, SRTS/LRSP Task Order 6 and 21: Endom Bridge Preliminary and Final Design, West Monroe, LA | *Lead Roadway Design Engineer.*** Brennon led the design and the preparation of preliminary and final plans and cost estimates. This project involves safety and operations improvements for the intersection realignment, curb and gutter drainage design, sidewalks, and turnouts. The project is currently under construction.
09/17 – 06/19	**LADOTD, SRTS/LRSP Task Order 7: McMillan Street at Blanchard Street Design, West Monroe, LA | *Lead Roadway Design Engineer.*** This was a striping and intersection improvement project in West Monroe, LA. Brennon's role was to lead the design and the preparation of preliminary and final plans and cost estimates. The scope included the design and installation of an ADA ramp and a new crosswalk for pedestrian safety.
11/19 – Ongoing	**LADOTD, SRTS/LRSP Task Order 22: Local Road Safety Upgrades (West Feliciana) | *Lead Roadway Design Engineer.*** Brennon is responsible for planning and coordinating staffing, scheduling, and budgeting for this project. He also led the design and the installation and preparation of preliminary and final plans which includes new signing, striping along 10 local routes within the parish and guardrail replacement at 12 bridge and cross drain locations along with cost estimates. The project is currently under construction.
11/17 – 06/19	**LADOTD, SRTS/LRSP Task Order 11: Ouachita Sidewalks, Monroe, LA | *Lead Roadway Design Engineer.*** This was a sidewalks and drainage with cross sections project in Ouachita Parish, Louisiana, to enhance pedestrian safety. Brennon's role was to lead the design and the preparation of preliminary and final plans and cost estimates.
Certifications (See section 20)	• DOTD FHWA-NHI-380096V Modern Roundabouts: Intersections Designed for Safety • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

16. Staff Experience:

Gresham Smith

Richard Savoie, P.E.

Senior Transportation Engineer

Years of experience with this firm/employer	4
Years of experience with other firm(s)/employer(s)	40

Degree(s) / Years / Specialization	Bachelor of Science / 1978 / Civil Engineering, McNeese State University		
Active registration number / state / expiration date	P.E.0020936 / LA / 9/30/24		
Year registered	1983 (LA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Senior Roadway Design Engineer / Richard will support the development of the conceptual designs and cost estimates.		

Career	Richard's 40+-year career includes 34 years with LADOTD in increasing roles culminating as the LADOTD Chief Engineer. As Chief Engineer, Richard was responsible for establishing engineering directives and standards, policies, budgets, expenditures, programs and procedures that guided project and program delivery, construction, and preservation of all transportation-related projects and systems.
09/18 –Ongoing	**LADOTD, SRTS/LRSP Task Order 6 and 21: Endom Bridge Preliminary and Final Design, West Monroe, LA | *Senior Engineer.*** The project consisted of roadway realignment at the bridge approach to improve roadway geometry and safety. Right-of-way is being acquired at one quadrant of the intersection and Richard is assisting with the coordination between the right-of-way plans and the roadway requirements. Richard performed Quality Control reviews on the final preliminary design submission and is overseeing Quality Control on the final design process.
05/80 – 02/06	**LADOTD, Road Design | *Design Engineer/Project Manager.*** Richard spent 26 of his 34-year LADOTD career in Road Design. Starting as an EIT 1 progressing to Asst. Road Design Engineer responsible for project management of roadway design by staff and design consultants preparing roadway plans and developing roadway design projects.
04/20 – Ongoing	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design | *Senior Engineer.*** Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Richard is responsible for overall Quality Control on the project. He is mentoring the engineering staff on the field evaluation requirements, reviewing all potential improvements, and is responsible for QC reviews on the preliminary and final design plan submissions.
06/21 – Ongoing	**EBR DTD, MovEBR-Plank Road Corridor Enhancement, Baton Rouge, LA | *Project Manager.*** Gresham Smith was selected to perform the corridor enhancement of Plank Road between Dawson Drive to Harding Boulevard. This project will include a topographic survey, a design study for bicycle and pedestrian facilities, improved drainage, transit facilities, new traffic signals and street lighting. The Design Study has been completed and we are working on Final Design. The project will result in a revitalized corridor with improvements for all users. Richard is managing the project on a day-to-day basis and leading the coordination with our sub-consultants.

16. Staff Experience:

Gresham Smith

John Weres, P.E.

Structural Engineer

Years of experience with this employer	4
Years of experience with other employer(s)	37

Degree(s) / Years / Specialization	Bachelor of Science / 1980 / Civil Engineering, University of Pittsburgh		
Active registration number / state / expiration date	PE.0036429 / LA / Exp. 9/30/2023		
Year registered	2011 (LA) 1985 (PA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Lead Structural Engineer / John will lead structural design, should it be required, for design of foundations for strain poles, mast arms or for large signs.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
8/15 – 11/18	**LADOTD, ITS Design & Implementation WO# 4: H.011503 – I-10 Twin Span ITS, Slidell, LA | *Lead Structural Engineer*.** Gresham Smith was selected to develop design plans along with specifications and cost estimates for the eight-mile I-10 Twin Span ITS project. Involves ITS equipment retro-fit along the corridor utilizing existing fiber, electrical systems, cabinets, camera poles, a Digital Message Sign (DMS) pole, a communications hut and a bridge health system. John was responsible for the structural analysis required for the new 60' camera poles to be places along existing foundations on the bridge, design of the platforms and handrails, and for the foundation, support pole and butterfly truss, the 1st of its kind in Louisiana, to support the Dynamic Message Sign that was placed on the bridge crossover.
04/15 – 03/17	**LADOTD, I-49 Lafayette Connector, Lafayette, LA | *Deputy Lead Structural Design Engineer*.** Served as Deputy Lead Structural Design Engineer for the concept design for a 4-mile long elevated structure through an urban area. Structure concepts included post-tensioned concrete U-girders, span-by-span segmental boxes, and steel trapezoidal boxes. John coordinated the efforts of the individual design teams for each structure type and served as the public coordination lead for the structures as part of an overall community involvement plan on developing the proposed structure type for this $800M project.
06/15 – 03/17	**LADOTD, State Project No. H.004367.5 – Earhart Expressway Connector, Metairie, LA | *Deputy Project Manager, Lead Structures Engineer.*** Preliminary and final design for a 7,000-foot urban expressway structure as part of the Earhart Expressway to Airline Highway Connector project. Preliminary design activities included survey, SUE, development of design criteria, development of bridge typical sections and development of proposed span arrangements and coordination with CN Railroad for the placement of bridge piers within the railroad right-of-way.
11/17 – 06/20	**MDOT, MS-178 Benton County Bridges, Benton County, MS | *Lead Structure Engineer*.** John served as the Lead Design Engineer for the final design of a 2-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
07/18 – 06/21	**MDOT, SR 149 Simpson County Bridge Replacements, MS | *Lead Structure Engineer.*** Gresham Smith is partnering with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D'Lo, Simpson County, Mississippi. Gresham Smith is designing the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.

16. Staff Experience:

Gresham Smith

Courtney Rome, P.E.

Structural Engineer

Years of experience with this employer	4
Years of experience with other employer(s)	7

Degree(s) / Years / Specialization	Bachelor of Science / 2009 / Civil Engineering, Southern University and A&M College		
Active registration number / state / expiration date	PE.0043355 / LA / Exp. 9/30/23		
Year registered	2019 (LA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Structural Engineer - Courtney will support structural design, should it be required, for design of foundations for strain poles, mast arms or for large signs.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/19 – 04/22	**LADOTD, Local Road Safety Program - West Feliciana Parish, LA | *Bridge Engineer*.** Courtney provided recommendations for standard plans and details to be incorporated for the proposed bridge railing replacements. Courtney performed preliminary site inspection and ball bank testing. Courtney coordinated RFI and standard drawing modifications.
04/20 – 08/20	**LADOTD, Task Order 2, US 71 Spring Street Emergency Repairs, Shreveport, LA | *Design Engineer.*** Following the train derailment that damaged the steel bent for the US 71 Spring Street Bridge, Gresham Smith was selected to evaluate the structure and design the emergency repairs. Courtney led the substructure design elements including the temporary shoring to support the railroad loads and for the crash wall and helical piles.
06/19 – 06/20	**MDOT, I-55 W Frontage Road (Southbound C-D Road over Soldier Colony Road) Bridge Preservation, Madison County, MS | *Bridge Engineer*.** Courtney provided details for the end wall removal and the proposed new end wall at the bridge abutment. Joint repair details were provided as well. Courtney provided substructure loads to the geotechnical Engineer for foundation recommendations.
11/17 – Ongoing	**MDOT, SR 178 Benton County Bridge Replacements, MS | *Engineer.*** Gresham Smith is providing final design (Phase B) services for the replacement of two water crossings on parallel alignment. Both bridges include utilization of prestressed Florida I-Beams (FIB) to maximize span lengths while minimizing structure depths. Courtney performed the deck design and beam design services for a one-span (135-foot) and three-span structure and also completed the design of pipe piles for the pier bents.
07/18 – Ongoing	**MDOT, MS-149 Simpson County Bridges, Simpson County, MS | *Bridge Engineer.*** Courtney performed final design calculations including Leap Bridge Design for FIB girders for multiple span designs for two of the four bridges. Courtney prepared the bridge plan sheets for two structures including all deck, beams, and foundations. Courtney led Gresham Smith's development of design and details for MDOT's first use of partial depth concrete deck panels, to accelerate construction and improve safety.
02/20 – 08/21	**TDOT, Alcoa Greenway Bridges (City of Alcoa, TN) | *Bridge Engineer*.** Courtney served as bridge designer for multiple structures including, conversion of an existing steel railroad trestle into a multi-use trail structure, construction of a new precast concrete arch structure on elevated retaining walls to carry the proposed trail over a new roadway, and the rehabilitation of two existing concrete arches to carry the trail over new roadways.
Certifications (See section 20)	• NHI 130055 – Bridge Inspection Team Leader and NHI 130078 Fracture Critical Insp. Techniques • SPRAT Level 1 Rope Access Technician.

16. Staff Experience:

Intelligent Transportation Systems LLC (ITS LLC)

Kimberly D. McDaniel, P.E., PTOE, PTP

Project Manager

Years of experience with this firm/employer	0.5
Years of experience with other firm(s)/employer(s)	19

Degree(s) / Years / Specialization	Bachelor of Science / 2003 / Civil Engineering, Louisiana Tech University Master of Science / 2005 / Civil Engineering, Wayne State University		
Active registration number / state / expiration date	P.E.0032973 / LA / Exp. 9/30/23 | PTOE 2072 / Exp. 10/02/2025 | PTP 802 / Exp. 03/14/2025		
Year registered	2007 (PE); 2007(PTOE); 2022 (PTP)	**Discipline**	P.E./Civil, PTOE, PTP
Contract role(s) / brief description of responsibilities	Project Manager / Kimberly will lead traffic, design, and analysis / engineering tasks assigned to ITS LLC for this contract. Kimberly has completed the LADOTD TEPR Modules I, II, and III.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/15 – 12/18	**Contract No. 4400007736: Traffic Engineering Services Retainer Contract, Statewide, LA | Engineer of Record and Project Manager:** Kimberly was the Engineer of Record and Project Manager for a $3 million traffic engineering services on-call contract with LADOTD. Services included traffic engineering studies, corridor studies, safety and crash analyses, traffic signal design, traffic data collection, signing and pavement marking designs, traffic signal timing studies, and intersection design.
08/21 – 05/22	**Railroad Trail Project Signal & Pedestrian Crossing Design, Tipton Associates on behalf of Louisiana Tech University (Lincoln Parish, LA) | Project Manager.** Kimberly served as the Project Manager for the design and development of construction plans for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included traffic evaluation, engineering design, construction plans for the installation of accessible/audible countdown pedestrian signals, and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston. As Project Manager, her duties included LADOTD project coordination, technical and planning review, and overall project management.
09/2020 – 05/21	**LA 93 Traffic Impact Study (Lafayette Parish) | Project Principal.** Kimberly served as the Project Principal for a traffic and safety evaluation for the City of Scott. The study included traffic impact studies for three proposed developments, two Intersection Control Evaluations (ICE), and a safety evaluation, all of which was required to conform to the LADOTD Traffic Engineering Process and Report requirements.
08/19 – 03/20	**LA-93 at Westgate Signal (Scott) | Engineer of Record and Project Manager.** Kimberly was the Engineer of Record and Project Manager for the preparation of the Intersection Control Evaluation (ICE) report which resulted in the approval of a temporary traffic signal at the intersection in to relieve traffic congestion due to an adjacent road closure. She also

	managed the design of the temporary signal and associated construction plans and LADOTD Permitting Process. This study was completed in accordance with the LADOTD TEPR requirements.
02/19 – 08/21	**Farm Road Multi-Bridge Replacement Project (Calcasieu Parish, LA) | Lead Traffic Engineer.** Kimberly served as the Lead Traffic Engineer for the Calcasieu Parish Police Jury on the Replacement of bridges on Farm Road. The scope included professional engineering services related to the replacement of two bridges located on Farm Rd. She provided traffic engineering services, including the preparation of temporary traffic control plans.
07/20 – 03/21	**Tech Drive Pedestrian Crossings, Louisiana Tech University (Ruston) | Principal.** New student housing being constructed across a state highway from the main campus posed challenges for the thousands of students who would have to cross the highway each day. The University sought improvements to safety at these crossings. The scope included traffic engineering and permit assistance, along with coordination between Louisiana Tech and the Louisiana Department of Transportation and Development (La DOTD) for the development of construction plans for the installation of Rectangular Rapid Flashing Beacons (RRFB) at two midblock crossings. Kimberly served as Principal for the project and her duties included coordination with LADOTD, client coordination, review of plans and cost estimates/comparisons, permit and bidding coordination, and review of bid package documentation/distribution and meetings.
01/19 – 04/20	**S.P. No. H.001271 Cane River Bridge Church Street EA (Natchitoches Parish, LA) | Lead Traffic Engineer.** Ms. McDaniel served as the Lead Traffic Engineer for this Environmental Assessment for the replacement of the Cane River Bridge. She was responsible for the analysis of multiple future traffic scenario alternatives as well as three different complex detour scenarios for the replacement of the Cane River Bridge. She assisted with the development of the final EA document which received approval on the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in Louisiana. She assisted in the development a Finding of No Significant Impact (FONSI) document, which was approved by FHWA and LADOTD. Ms. McDaniel also assisted in coordinating public and agency outreach activities
06/17 – 06/21	**S.P. No. H.009932: US 80 Widening Vancil Rd to Well Rd (Ouachita Parish) | Traffic and Safety Project Engineer:** Kimberly served as Traffic and Safety Project Engineer for the Environmental Assessment study for capacity/safety improvement of a 1.4- mile portion of US 80. She developed traffic models for a variety of alternatives, identified safety improvements, and determined geometric configurations to increase traffic capacity. Alternatives included roundabouts.
01/19 – 05/22	**S.P. No. H.002297 LA 37 (Sullivan Road to Liberty Road) (East Baton Rouge Parish) | Project Principal:** Kimberly served as the Project Principal and was responsible for directing all engineering, environmental, and planning services required to recommend improvements along the LA 37 corridor from Sullivan Road to Liberty Road. Upon completion of all analyses, a final Stage 0 Feasibility Report including the Stage 0 Checklist, Environmental Checklist, schematics, and the opinion of probable cost were developed.
10/08 – 08/14	**LADOTD Access Management Program, Louisiana Statewide | Director**: Kimberly developed and managed the LADOTD Access Management Program. In this role, she performed extensive research of access management policies and best practices throughout the US. Kimberly led multiple focus groups and policy development teams consisting of LADOTD employees, consulting engineers, commercial developers, residential developers, real estate agents, attorneys, municipal employees, and elected officials from around the state to develop a policy for LADOTD which would regulate the granting of access to state highways. The policy was adopted as Louisiana Administrative Code Title 70, Part I, Chapter 15. Kimberly authored the Access Connections Policy, a document expanding the criteria of the code. She developed training courses for DOTD employees, consultants, contractors, real estate professionals, and elected officials and conducted trainings throughout the state of Louisiana. Kimberly served as the state's Subject Matter Expert on Access Management throughout this time.

16. Staff Experience:

Intelligent Transportation Systems LLC (ITS LLC)

Jonathan Fox, P.E., PTOE, PMP
Principal

Years of experience with this firm/employer	7.5
Years of experience with other firm(s)/employer(s)	13

Degree(s) / Years / Specialization	Bachelor of Science / 2003 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0033277 / LA / Exp. 09/30/23 | PTOE 2329 / Exp. 11/07/2025 | PMP 1812148 / Exp. 04/27/2024		
Year registered	2007 (P.E.) 2007 (PTOE)	**Discipline**	P.E./Civil, PTOE
Contract role(s) / brief description of responsibilities	Project Principal & Lead Signal Designer / Jonathan will assure that all resources are made available for tasks assigned to ITS LLC for this contract and will lead the signal design efforts assigned to ITS LLC. Jonathan has completed the LADOTD TEPR Modules I, II, and III.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/15 – 07/19	**SASOL Lake Charles Chemical Project – Adaptive Traffic Signal Systems (Westlake) | Lead Traffic Engineer.** Jonathan was the lead traffic engineer on new traffic signal designs, upgrades, communication design, and integration. He oversaw developing traffic signal plans, simulation models, communication layouts, network design, surveillance, travel time management, and permit applications. Six of these intersection upgrades were integrated by Jonathan's team as the first Adaptive Traffic Signal System deployed in the state of Louisiana (System A). Jonathan has overseen the design, implementation and integration of the Sasol System B (LA 108 signal corridor) as well as LA 27 (Beglis Rd.) @ LA 379 (Houston Rive Rd.). These were constructed and the adaptive functionality was turned on in July of 2019. These intersection designs used stop bar and setback radar detection as well as wireless and cellular communications. Efforts for Sasol also included design and construction support for a temporary traffic signal on Old Spanish Trail at Prater Road.
06/18 – 07/19	**US 90 Adaptive Corridor (Westlake) | Project Manager & Design Lead.** Jonathan has served as the project manager and overall design lead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated traffic signal inventory (TSI) forms as well as communications support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the adaptive system in Lake Charles
06/18 – 07/19	**US 90 Adaptive Corridor (Westlake) | Project Manager & Design Lead.** Jonathan served as the project manager and overall design lead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated traffic signal inventory (TSI) forms as well as communications in support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the adaptive system in Lake Charles.

12/14 – Present	**DOTD ITS Maintenance (44-2500, 44-7102. 44-16811) (Statewide) | Supervisor Engineer.** Served as supervisor engineer for ITS LLC under the existing ITS Maintenance Retainer contract. Roles include project management support, quality control checks, site reviews, as well as investigating options and developing concepts to improve sites. Jonathan's knowledge of the ITS from planning through operations has made him a highly valuable asset to the ITS Maintenance team especially his knowledge of the ITS as it was designed and operated.
2007 – 2012	**L'Auberge Baton Rouge Casino & Hotel Off-Site Improvements (Baton Rouge) | Design Lead.** This project involved developing signal plans for offsite signal improvements at the intersections of Nicholson and Gardere, Bluebonnet and Nicholson, Burbank and Bluebonnet, and Perkins and Siegen. The project called for completely new traffic signal equipment at the Nicholson and Gardere intersection. Modifications and additions to the existing traffic signal equipment were required at the other intersections. Jonathan led the design efforts for the traffic signals and fiber optic communications plans as well as obtained DOTD traffic signal permits**.**
2007 – 2010	**I-12 Ramp Metering Design and Implementation (East Baton Rouge Parish) | Engineer.** Jonathan provided signal layout design support, quality control and fiber optic communications design for 16 ramp meters in the Baton Rouge area, including plan layouts, fiber allocations, and technical specification. He also handled construction administration, fiber inspection, fiber test review, and integration coordination. This was the first implementation of ramp metering in the state.
10/12 – 12/14	**Baton Rouge ITS Phase 3 (Baton Rouge) | Project Manager & Design Lead**: Jonathan oversaw the System Engineering Analysis (SEA) document for the project in compliance with the FHWA Rule (23 CFR Part 940.11) to determine project scope and analyze implementation constraints including minimizing the impact of construction on the traveling public and using existing fiber optic communications. Several ITS deployments projects were solely focused on the core urban area, leaving gaps. The solution to meet the LADOTD's goal of the Baton Rouge ITS Phase 3 project was to supplement the area with 16 additional closed circuit television video cameras, 5 dynamic message sign sites, 1 HUB site, 30 Bluetooth detection sites, 1 travel time message sign (first in the state), and 8 ramp meters that cover five parishes over 50 miles to help with blind areas. He led the development of the plan set from conception to Final Plans.
11/12 – 12/14	**H.010138 Sunshine Bridge ITS Deployment (Sorrento) | Project Manager.** Jonathan managed all tasks from system engineering through deployment of final design package. He oversaw the development of the project level SEA for the deployment of a closed-circuit television camera system along LA 22 and LA 70 including the Sunshine Mississippi River Bridge. He overcame project challenges including determining how permitted fiber communications assets would be used, structure mounted conduit systems, and handling ongoing bridge painting construction. He developed a conceptual design to have the camera support mount directly to the bridge pier cap instead of the bridge's steel members to reduce maintenance. He also oversaw the analysis report, developed plans, specifications, and provided cost estimates.
2008 — 2009	**Baton Rouge Downtown Two-Way Streets Project (Baton Rouge) | Engineer.** This project involved developing signal plans for intersections affected by the transition from one-way operation to two-way, including the intersections of South Blvd at S. Phillip and St. Louis Streets, Government St at St. Louis and St. Ferdinand Streets, and North Blvd at St. Louis and St. Ferdinand Streets. Jonathan led the signal design efforts which included signal plans, wiring diagrams, timing plans, and fiber optic communications.

16. Staff Experience:

Intelligent Transportation Systems LLC (ITS LLC)

Clarke Chauvin, P.E., PTOE, PMP

Traffic Engineer

Years of experience with this firm/employer	6
Years of experience with other firm(s)/employer(s)	3.5

Degree(s) / Years / Specialization	Bachelor of Science / 2013 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0041770 / LA / Exp. 9/30/23 | PTOE 4337 / Exp. 11/20/2023 | PMP 1812148 / Exp. 11/31/2023		
Year registered	2016 (PE); 2017(PTOE);	**Discipline**	P.E./Civil, PTOE, PMP
Contract role(s) / brief description of responsibilities	Signal Design Engineer / Clarke will participate in all traffic signal design efforts assigned to ITS LLC. Clarke has completed the LADOTD TEPR Modules I, II, and III.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/15 – 07/19	**SASOL Lake Charles Chemical Project – Adaptive Traffic Signal Systems (Westlake) | Signal/ITS Design Engineer.** In support of the $8.9 billon ethane cracker chemical plant expansion, Clarke provided signal design support for multiple intersections. His efforts included developing preliminary signal permit plans, developing timing models, conducting field investigations, providing quantities, constructability reviews, and signal construction inspection. Clarke's experience in CE&I make him an excellent resource for design since he's able to identify constructability issues. Additionally, Clarke provided support for the first Adaptive corridor installed in the state of Louisiana. Along Sampson St., an adaptive corridor was implemented and is currently operational. Clarke was involved in the Synchro modeling, TSI documentation, and producing as-built drawings for the system.
02/18 – 07/19	**System B (LA 108) Adaptive Traffic Signal Corridor (Westlake) | Project Manager.** Clarke was the Project Manager for the implementation of the System B adaptive traffic signal corridor. In addition to allocating IP addresses, configuring devices (both for network communication and signal operation), and managing construction and coordination, Clarke worked to bring an isolated traffic signal into the adaptive system through cellular communication. Clarke worked with DOTD to use a private cellular network to remotely connect to the signal equipment. He configured the cellular modem to allow port forwarding of the devices required for the adaptive system and oversaw the installation and configuration for all of the equipment for these signals. The communication system is currently active and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify ITS LLC and DOTD with issues.

06/18 – 07/19	**US 90 Adaptive Corridor (Westlake) | Signal/ITS Design Engineer.** Clarke performed network design and construction project management for the US 90 adaptive traffic signal corridor in Westlake, LA. In addition to performing the initial field wireless testing to determine appropriate frequency, power, mounting heights, etc., Clarke designed and allocated IP addresses for the various equipment at these intersections. He programmed controllers, switches, radar detection, and wireless Ethernet radios. The communication system is currently active and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify ITS LLC and DOTD with issues.
03/19 – 04/20	**H.012661 D07 FYA – US 171 Adaptive Traffic Signal Corridor (Sulphur) | Project Manager.** Clarke served as Project Manager in addition to performing network design, integration, and performance monitoring for the Adaptive traffic signal corridor installed in Sulphur, LA. From initial field wireless testing to device configuration and installation to network and traffic performance monitoring, Clarke was involved in creating a quality project with proven reliability and proven performance. Phasing construction to set up communications prior to the Adaptive turn on in November 2019 allowed ITS LLC to create a baseline for traffic operations to compare against active Adaptive system operation. ITS LLC also utilized NMS software to evaluate the network communications for speed, uptime, and reliability. Performance monitoring for the project is ongoing.
04/19 – 05/20	**LA 1256 (Ruth St.) Adaptive Traffic Signal Corridor (Westlake) | Signal/ITS Design Engineer.** In order to create an adaptive traffic signal corridor along LA 1256, Clarke designed the communications network which would be responsible for handling all of the live traffic data for the corridor. For the adaptive corridor to function optimally, constant communication is required between the traffic signal and adaptive server at DOTD D07's TMC. Clarke allocated IP addresses for the devices and equipment at each signal along the corridor. He evaluated the path required for VLAN through an existing DOTD fiber optic ring for communication between the project site and DOTD D07 TMC. He performed wireless testing to evaluate whether 2Ghz or 5Ghz band frequencies would provide better performance along the corridor. He determined proper configuration for each network switch and wireless radio along the corridor. Clarke serves as Project Manager in addition to performing network design.
02/16 - present	**DOTD ITS Maintenance (44-7102. 44-16811), Statewide Louisiana | Pre-Professional, Enginer.** Clarke has served as a pre-professional and now as engineer for the existing ITS Maintenance Retainer. He has performed routine maintenance on emergency crossover gates, travel time message system, CCTV camera sites, RVD sites, ramp meter sites as well as DMS sites. His skills include, but are not limited to, device troubleshooting, communication and network troubleshooting, parts replacement, site cleaning, insect extermination, traffic control setup, as well as coordinating with law enforcement, TMC operations staff, and DOTD. Let's not forget his investigation to find solutions for maintenance problems. For example, Clarke recently located a short and replaced access control boards in the Twinspan crossover gate system which allowed it to be brought back into operation. In addition to setting up monitoring for recent hub site generators, Clarke determined a solution for monitoring all existing generator sites. Clarke also designs platforms for hard to reach handholds at camera sites, usually on three way slopes. Clarke carries a Class D license to drive bucket trucks used in maintenance operations.

16. Staff Experience:

Intelligent Transportation Systems LLC (ITS LLC)

Diane C. Hammonds, P.E., PTOE, RSP_1

Senior Traffic Engineer

Years of experience with this firm/employer	0.5
Years of experience with other firm(s)/employer(s)	17

Degree(s) / Years / Specialization	Bachelor of Science / 2002 / Civil Engineering, University of New Orleans		
Active registration number / state / expiration date	P.E.0040749 / LA / Exp. 9/30/24 | PTOE 7113 / Exp. 12/19/2022 | RSP_1 798 / Exp. 03/14/2025		
Year registered	2016 (PE); 2017 (PTOE); 2022 (RSP_1)	**Discipline**	P.E./Civil, PTOE, RSP_1
Contract role(s) / brief description of responsibilities	Lead Traffic Engineer / Diane will lead all traffic engineering, capacity, safety, and other study efforts assigned to ITS LLC. Diane has completed the LADOTD TEPR Modules I, II, and III.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.*****, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/19 – 03/20	**LA-93 at Westgate Signal (Scott) | Design Lead.** Diane served as the Technical Lead, Analyst and Design Engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction and closure of an adjacent roadway. Diane prepared the volumes forecasting and capacity analysis as well as report documentation, and signal design. The approval coordination included the LADOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
01/22 – 05/22	**Traffic Signal – LA-433 at Town Center Parkway (St. Tammany Parish) | Engineer of Record & Lead Traffic Engineer.** Diane served as the Engineer of Record and Lead Traffic Engineer for an Intersection Control Evaluation (ICE) analysis for the intersection of LA-433 (Old Spanish Trail) at Town Center Parkway. The scope of services includes providing traffic engineering analyses, traffic signal design, and permit assistance to Stirling Properties as required by the LADOTD. The evaluation included an MUTCD 2009 Edition Traffic Signal Warrant Evaluation, a crash review for a three (3) year period that included diagrams, locations, and summaries, an existing operating analysis, and an alternative intersection control for a traffic signal, an all-way stop, a roundabout, an R-Cut, and median UTurns.
08/21 – 05/22	**Railroad Trail Project Signal & Pedestrian Crossing Design, Louisiana Tech University (Ruston) | Lead Traffic Engineer.** Diane served as the Lead Traffic Engineer for the design and development of construction plans for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included traffic evaluation, engineering design for the installation of accessible pedestrian signals (APS), and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston.

08/19 – 06/21	**S.P. No. H.009932 US 80 Widening: Vancil Rd to Well Rd EA (Ouachita Parish) | Traffic Engineer.** Diane served as a traffic engineer for this Environmental Assessment to improve the corridor by widening the existing roadway and implementing intersection improvement principles along a 1.4-mile portion of US 80. She has assisted in the existing/no-build, safety, and alternatives capacity analysis reports, which have been approved by LADOTD. She analyzed project impacts by coordinating and assisting in developing the line and grade study, cost estimates, and conceptual plans.
02/19 – 08/21	**Farm Road Multi-Bridge Replacement Project (Calcasieu Parish) | Lead Traffic Engineer.** Diane provided assisted in the preparation of traffic management plans for the Calcasieu Parish Police Jury related to the replacement of two (2) bridges located on Farm Road. Diane provided traffic engineering services, including the preparation of temporary traffic control plans.
08/19 – 05/22	**S.P. No. H.002297 LA 37 (Sullivan Road to Liberty Road) (East Baton Rouge Parish) | Lead Traffic Engineer.** Diane served as the Lead Traffic Engineer and was responsible for managing and reviewing all submittals by the traffic sub-consultant, Gresham Smith. Diane ensures quality control and is assisting in the development of the Stage 0 Feasibility Study, Environmental Inventory, and conceptual plans
08/19 – 05/22	**LA-93 (Westgate Road) at Eraste Landry Road (Scott) | Design Lead.** Diane served as the Technical Lead, Analyst and Design Engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction which resulted in an adjacent roadway closure. Diane prepared the volume forecasting and capacity analysis as well as report documentation, and signal design. The approval coordination included the LADOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
05/18 – 08/19	**Lakeshore Drive Mixed Use Development Traffic Impact Study (Slidell) | Project Manager & Engineer of Record.** Diane served as the Project Manager, Engineer of Record, and Analyst for a ± 1,083-acre mixed use development which at full buildout will contain residential houses, a school, and small commercial retail. The study included 2 interstate interchanges with state highways as well as a 1.7-mile segment of Parish owned roadway including 4 roundabout evaluations and a J-turn corridor. She performed approval coordination with both the LADOTD and St. Tammany Parish.

16. Staff Experience:

Intelligent Transportation Systems LLC (ITS LLC)

Colin Francis, E.I.
Engineer Intern

Years of experience with this firm/employer	0.5
Years of experience with other firm(s)/employer(s)	0.5

Degree(s) / Years / Specialization	Bachelor of Science / 2021 / Civil Engineering, Mississippi State University		
Active registration number / state / expiration date	E.I. 35053 / LA / Exp. 9/30/24		
Year registered	2021 (E.I.)	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Engineer Intern / Colin will assist with all traffic engineering study and signal design efforts assigned to ITS LLC. Colin has completed the LADOTD TEPR Modules I, II, and III.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
05/22 – Present	**DOTD ITS Maintenance (44-7102. 44-16811) (Statewide Louisiana) | Engineer Intern.** Colin is performing maintenance, troubleshooting, and installation functions on the existing LADOTD ITS Maintenance Retainer. He has performed routine maintenance on CCTV camera sites, RVD sites, ramp meter sites, and DMS sites. His skills include device troubleshooting, communication and network troubleshooting, parts replacement, and site cleaning. Colin carries a Class D license to drive bucket trucks used in maintenance operations.
12/21 – 05/22	**US 190 at Market Street Extension (Tangipahoa Parish) | Engineer Intern.** The scope of this study included traffic analysis of eleven intersections. This study conformed with the LADOTD Traffic Engineering Policy and Report (TEPR), consisted of traffic counts, turning movement counts, and driveway/residential roadway counts during the peak hour. Colin assisted with the preparation of the drafts and the final report, which included collected data, the existing safety analysis, the existing and no build analysis, and the alternative analysis. He compiled initial traffic count data to determine the peak period of traffic for the study area and performed the initial collection and compilation of crash history data from LADOTD to complete the existing safety analysis and crash diagrams.
12/21 – 05/22	**LA 93 Traffic Impact Study (Lafayette Parish) | Engineer Intern.** Colin served as an Engineer Intern on a study for the City of Scott to determine traffic impacts of three proposed developments, including two Intersection Control Evaluations (ICE) and a safety evaluation. Coin's role included using the TEPR system of reporting to determine peak period and peak hour of traffic volume, implementing the use of ArcGIS to map the crash history of the corridor, and using excel to implement trip generation values to existing traffic volumes.
12/21 – 05/22	**S.P. No. H.013367, Elm Grove Garden Pedestrian Improvements (East Baton Rouge Parish) | Engineer Intern.** Elm Grove Garden Drive is a residential street with a public elementary school where there is an existing sidewalk on the school property but not along the corridor. The goal of this project is to provide 1.68 total miles of pedestrian facilities along the entire corridor. The existing drainage facilities include open-ditch systems but will be upgraded as needed to accommodate the sidewalk construction. Colin assisted in MicroStation project plan design files.

16. Staff Experience:

Quality Counts, LLC

Amanda Lenz
Operations Manager

Years of experience with this firm/employer	2
Years of experience with other firm(s)/employer(s)	5

Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Traffic Data Collection Manager / Amanda will manage and organize all traffic data collection tasks for this contract		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; ***i.e.***, **"designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
01/2016 – Ongoing	**Various Route and Interchange Surveys, Statewide LA | *Project Manager* –** As a subconsultant to Gresham Smith, Quality Counts was awarded a contract to provide various data collection services on roads and highways maintained by Louisiana DOTD. Traffic count services regularly include pneumatic tube counts, turning movement counts, demand volume counts, and radar speed studies. Collected data is used for forecasting, planning, signal retiming, design, and other purposes determined on a per project basis. Specific examples of projects executed include the US 171 MLK Calcasieu Parish Study (35 tube counts, 33 intersection TMCs with queueing, 150 driveway TMCs, 3 radar speed studies); I-210 at LA 1138-2 (Nelson Road) Interchange Study (37 tube counts, 33 intersection TMCs, 9 driveway TMCs, 3 radar speed studies), both completed in the spring of 2017 and Farmerville State and Local Roads (126 48-Hour machine counts, 8 7-day 24 hour machine counts, 68 Turning Movements, 192 15 minute driveway counts, and 8 radar speed studies) completed in the fall of 2016. Since 2020, Amanda Lenz has provided operations support to Project Manager Brian Durrett.
01/2020 – 03/2020	**Regional Traffic Data Collection Program | *Project Manager* –** Quality Counts was contracted by CRPC to collect 24- and 48-hour traffic counts all over the Baton Rouge Metro area. The traffic counts were conducted with tubes, vide and radar devices. Some of the sites included classification data and some were volume only. A total of 230 locations were collected until the Pandemic put a halt on things. A customized spreadsheet managed by Dan Franz was delivered with all the data along with setup pictures from every site. Amanda Lenz managed the project and coordinated the fieldwork.
01/020 – 04/2020	**Loyala – Kenner, AL Airport | *Project Manager* –** Quality Counts was hired by Stantec Associates to collect traffic counts near the New Orleans Airport from January-End of March 20202. This included seven-day freeway Radar counts, 24 hour turning movement counts and a 60-day tube count. Amanda Lenz has managed the project and coordinated the fieldwork.
02/2020 – 04/2020	**Hooper Rd Improvements | *Project Manager* –** Quality Counts was hired by CDM Smith to collect traffic counts on Hooper Rd NE of Baton Rouge during the winter of 2020. This included tube counts, driveway counts, Turning Movement counts, and onsite vehicle demand counts freeway Radar counts. Amanda Lenz has managed the project and coordinated the fieldwork.

03/2020 – 05/2020	**Regional Traffic Data Collection Program Virus Impact | *Project Manager* –** Quality Counts was contracted by CRPC to collect 24-hour traffic counts all over the Baton Rouge Metro area. The traffic counts were conducted with tubes, video and radar devices. Classification and speed data was included in all the reports. A total of 257 locations were collected during the pandemic. This was to see how the pandemic had affected traffic patterns in the Baton Rouge area. A customized spreadsheet was delivered with all the data along with setup pictures from every site. Amanda Lenz managed the project and coordinated the fieldwork.
07/2019 – Ongoing	**City of Round Rock Texas Annual Traffic Counts | *Project Manager* –** Quality Counts has a contract with the City of Round Rock Texas to collect 48-hour traffic counts all over the City. The traffic counts are conducted with tube count equipment. Classification and speed data are included in the reports. A total of 298 locations have been successfully collected since the start of 2019. This includes some counts during the pandemic to see how affected traffic patterns in the city are. Since 2020, Amanda Lenz managed the project and coordinated the fieldwork.

16. Staff Experience:

Quality Counts, LLC

Noah Smith
Operations Support Manager

Years of experience with this firm/employer	7
Years of experience with other firm(s)/employer(s)	0

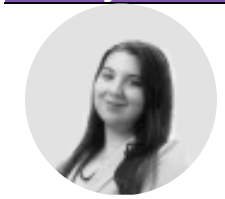
Degree(s) / Years / Specialization	B.A. / 2005 / Theater		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Data Processing Manager / Noah will supervise the planning, processing and quality control of all data collected on this 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 time specified in the applicable MPR(s).
01/2016 – Ongoing	**Various Route and Interchange Surveys, Statewide LA | *Data Processing Manager* –** As a subconsultant to Gresham Smith, Quality Counts was awarded a contract to provide various data collection services on roads and highways maintained by Louisiana DOTD. Traffic count services regularly include pneumatic tube counts, turning movement counts, demand volume counts, and radar speed studies. Collected data is used for forecasting, planning, signal retiming, design, and other purposes determined on a per project basis. Brian Durrett serves as the primary point of contact for Gresham Smith, managing all aspect of the project and Felix Long serves as the Field Technician responsible for the deployment of all equipment. Responsibilities include development of data collection approaches, staff scheduling, on-site project management, data QA/QC, and project delivery. Specific examples of projects executed include the US 171 MLK Calcasieu Parish Study (35 tube counts, 33 intersection TMCs with queueing, 150 driveway TMCs, 3 radar speed studies); I-210 at LA 1138-2 (Nelson Road) Interchange Study (37 tube counts, 33 intersection TMCs, 9 driveway TMCs, 3 radar speed studies), both completed in the spring of 2017 and Farmerville State and Local Roads (126 48-Hour machine counts, 8 7-day 24 hour machine counts, 68 Turning Movements, 192 15 minute driveway counts, and 8 radar speed studies) completed in the fall of 2016. Noah Smith is tasked with all tube data and radar speed study processing for this project.
01/2016 – Ongoing	**Washington County, OR Annual Traffic Counts | *Data Processing Manager* –** Quality Counts has been under contract with Washington County, Oregon to conduct their annual traffic count program since 2005. Each year, QC collects vehicle volume, classification, and speed data by direction at over 300 locations throughout the county. The purpose of this effort is to support engineering and planning activities. Traffic volume tables are also made available to the public for business and other purposes. Noah Smith is tasked with processing tube count volume, classification, and speed data for this project.
01/2020 – 03/2020	**Regional Traffic Data Collection Program | *Data Processing Manager* –** Quality Counts was contracted by CRPC to collect 24- and 48-hour traffic counts all over the Baton Rouge Metro area. The traffic counts were conducted with tubes, vide and radar devices. Some of the sites included classification data and some were volume only. A total of 230 locations were collected until the Pandemic put a halt on things. Noah Smith managed the processing of tube and radar data for this contract.

01/020 – 04/2020	**Loyala – Kenner, AL Airport | *Data Processing Manager* –** Quality Counts was hired by Stantec Associates to collect traffic counts near the New Orleans Airport from January-End of March 20202. This included seven-day freeway Radar counts, 24 hour turning movement counts and a 60-day tube count. Noah Smith managed the processing of the tube counts and freeway radar counts for this project.
02/2020 – 04/2020	**Hooper Rd Improvements | *Data Processing Manager* –** Quality Counts was hired by CDM Smith to collect traffic counts on Hooper Rd NE of Baton Rouge during the winter of 2020. This included tube counts, driveway counts, Turning Movement counts, and onsite vehicle demand counts freeway Radar counts. Noah Smith managed the processing of the tube counts for this project.
03/2020 – 05/2020	**Regional Traffic Data Collection Program Virus Impact | *Data Processing Manager* –** Quality Counts was contracted by CRPC to collect 24-hour traffic counts all over the Baton Rouge Metro area. The traffic counts were conducted with tubes, video and radar devices. Classification and speed data was included in all the reports. A total of 257 locations were collected during the pandemic. This was to see how the pandemic had affected traffic patterns in the Baton Rouge area. A customized spreadsheet managed by Dan Franz was delivered with all the data along with setup pictures from every site. Noah Smith was tasked with processing the tube count data for this project.
07/2019 – Ongoing	**City of Round Rock Texas Annual Traffic Counts | *Data Processing Manager* –** Quality Counts has a contract with the City of Round Rock Texas to collect 48-hour traffic counts all over the City. The traffic counts are conducted with tube count equipment. Classification and speed data are included in the reports. A total of 298 locations have been successfully collected since the start of 2019. This includes some counts during the pandemic to see how affected traffic patterns in the city are. Noah Smith manages all tube data processing for this project.
09/2019-09/2019	**City of Cedar Park Texas Annual Traffic Counts | *Data Processing Manager* –** Quality Counts was hired by the City of Cedar Park Texas to collect 24-hour traffic tube counts all over the City. A total of 44 locations were collected. Quality Counts also provide a GIS map of all the data to the City. Noah Smith managed all tube count data processing for this contract.
10/2019-10/2019	**City of Leander Texas Traffic Counts | *Data Processing Manager* –** Quality Counts was hired by the City of Leander Texas to collect 24-hour traffic counts within the City. A total of 36 locations were collected. Quality Counts also provide a GIS map of all the data to the City. Noah Smith managed all tube count data processing for this contract.

16. Staff Experience:

Quality Counts, LLC



Sandra Fitzgerald
Video Reduction Center Manager

Years of experience with this firm/employer	10
Years of experience with other firm(s)/employer(s)	0

Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Video Processing Manager / Sandra will oversee the data processing for all video recorded for this 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 time specified in the applicable MPR(s).
01/2016 – Ongoing	**Various Route and Interchange Surveys, Statewide LA | *Video Processing Manager* –** As a subconsultant to Gresham Smith, Quality Counts was awarded a contract to provide various data collection services on roads and highways maintained by Louisiana DOTD. Traffic count services regularly include pneumatic tube counts, turning movement counts, demand volume counts, and radar speed studies. Collected data is used for forecasting, planning, signal retiming, design, and other purposes determined on a per project basis. Specific examples of projects executed include the US 171 MLK Calcasieu Parish Study (35 tube counts, 33 intersection TMCs with queueing, 150 driveway TMCs, 3 radar speed studies); I-210 at LA 1138-2 (Nelson Road) Interchange Study (37 tube counts, 33 intersection TMCs, 9 driveway TMCs, 3 radar speed studies), both completed in the spring of 2017 and Farmerville State and Local Roads (126 48-Hour machine counts, 8 7-day 24 hour machine counts, 68 Turning Movements, 192 15 minute driveway counts, and 8 radar speed studies) completed in the fall of 2016. Sandra Fitzgerald is tasked with managing the video data processing for this contract.
01/020 – 04/2020	**Loyala – Kenner, AL Airport | *Video Processing Manager* –** Quality Counts was hired by Stantec Associates to collect traffic counts near the New Orleans Airport from January-End of March 20202. This included seven-day freeway Radar counts, 24 hour turning movement counts and a 60-day tube count. Sandra Fitzgerald managed the TMC video data processing for this project.
03/2020 – 05/2020	**Regional Traffic Data Collection Program Virus Impact | *Video Processing Manager* –** Quality Counts was contracted by CRPC to collect 24-hour traffic counts all over the Baton Rouge Metro area. The traffic counts were conducted with tubes, video and radar devices. Classification and speed data was included in all the reports. A total of 257 locations were collected during the pandemic. This was to see how the pandemic had affected traffic patterns in the Baton Rouge area. A customized spreadsheet was delivered with all the data along with setup pictures from every site. Sandra Fitzgerald managed the video data processing for this project.

2010 - Ongoing	**NCDOT Data Collection On-Call	*Video Processing Manager* –** Video Processing Manager responsible for processing tasks on a variety of projects on the on-call contract to collect TMCs, tube counts, travel time data, and other various studies across North Carolina. Ensures that all data is properly formatted to NCDOT's strict data formatting protocols. This data is used to determine various planning, design, construction, maintenance, operations and research activities across the state. Hundreds of counts are ordered annually with an approximate value of $500,000 per year. Sandra Fitzgerald managed the video data processing for this project.
2014 - Ongoing	**City of Durham/DCHC MPO Data Collection	*Video Processing Manager* –** Video Processing Manager assisting in managing the data review efforts for QC's contract with the City of Durham/DCHC MPO. Since 2014, collection efforts have included more than 850 48-hour volume/classification counts and more than 700 TMCs and bicycle/pedestrian counts at intersections and midblock locations. Sandra is responsible for overseeing the data reduction and custom deliverable portion of the data collection.
2018 - Ongoing	**CRTPO Traffic Data Collection On-Call	*Video Processing Manager* –** Quality Counts has been a source of traffic count data for the Charlotte Regional Transportation Planning Organization (CRTPO) since the spring of 2018. The purpose of our work is to review, collect, analyze, and process all forms of traffic data, including from City-provided video files. Data collection occurs at mid-blocks and at intersections in Charlotte and surrounding towns within CRTPO's area of operation. Collected data is used for a variety of transportation planning and research efforts throughout the MPO planning area which includes all of Iredell and Mecklenburg counties and a significant portion of Union county. Automatic traffic recorders are utilized at certain mid-block locations to collection volume, speed, and classification data. Intersection data is collected using cameras and can include turning movement counts, queue, delay, and saturation flow information. Every survey site requires the collection of additional location information including site map, a summary of weather conditions, equipment locations, pictures, tabulated and summarized traffic data, and in some cases, video recordings to corroborate reported data. Data is formatted and uploaded to the City of Charlotte's MS2 traffic data management website. So far, Quality Counts has performed approximately 1,000 hour of video collection between turning movement counts in the Town of Huntersville and pedestrian/bicycle counts in the Town of Cornelius. The approximate contract value is $100,000 per year. Sandra Fitzgerald is responsible for all manners of video-based data processing.

16. Staff Experience:

Grey Engineering, LLC

April Renard, P.E., PTOE, RSP2I

Principal & Owner

Years of experience with this employer	<1
Years of experience with other employer(s)	16

Degree(s) / Years / Specialization	Bachelor of Science / 2006 / Civil Engineering		
Active registration number / state / expiration date	P.E. 35660 / LA / Exp. 9/30/2024		
Year registered	2010	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Complete Streets QA/QC		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/22 – Ongoing	**Town of St. Francisville's Commerce Street Betterment Project:** April is the lead engineer for the redesign of Commerce Street. The scope of the project includes narrowing the travel lane widths, installing wide sidewalks and new curbs, constructing raised crosswalks, providing angled on-street parking near the park's entrance, and retrofitting the catch basins with biofiltration beds.
10/22 – Ongoing	**BREC Dawson's Creek Trail and Health Loop:** April is the lead engineer for developing the conceptual layouts of the proposed health loop, connecting the Dawson's Creek Trail at Perkins Road Community Park to Ward's Creek Trail. This includes conducting on-site assessments of proposed trail segments and establishing the servitude limits for the proposed trail location.
10/20 – 9/21	**City of Baton Rouge & Parish of East Baton Rouge MOVEBR Capacity Program Complete Streets Lead**: April served as the Subject Matter Expert on Complete Streets by reviewing all design studies, project design reports, and preliminary plans to ensure pedestrians, bicyclist, and transit users of all ages and abilities are provided reasonable and appropriate facilities given a project's context. April also led the development of standard street cross sections that were adopted into the MOVEBR Design Guidelines to improve walkability, bikability, ADA compliance, transit accommodations, calm traffic, mitigate stormwater runoff impacts, and improve water quality. She also produced and hosted a MOVEBR Design Guidelines workshop.
10/20 – Ongoing	**City of Baton Rouge & Parish of East Baton Rouge MOVEBR US 61/Scenic Highway Enhancement Project (LA 408/Harding Boulevard to Swan Avenue):** April is the project lead for the Scenic Highway Survey and Preliminary Design, developing existing plan and profile sheets, determining feasible typical sections and intersection geometry given constrained Right-of-Way and limited budget. Her work involves coordinating with various stakeholders within the community, the MOVEBR Program Management Team, and LADOTD representatives while producing technical concepts to address the purpose and need of the project. Concepts include ADA compliant sidewalks, bike lanes, traffic calming countermeasures, transit stop improvements, and green infrastructure (e.g. biofiltration swales and curb extensions).

7/19 - 10/20	**City of Baton Rouge & Parish of East Baton Rouge MOVEBR Project Manager | CSRS, Inc.:** In the early phases of MOVEBR, April created the data-driven prioritization schema of MOVEBR projects and led the collection and processing of the data to produce the first tier of prioritized projects. April also developed the MOVEBR federal funding strategy matrix for pursuing federal funds for eligible projects. After the overall program strategy was developed, April served as a Project Manager for 6 MOVEBR Capacity Program projects (Midway, Constantin/Dijon, Old Hammond Highway Segment 1, Old Hammond Highway Segment 2, Harding at I-110 Interchange, Ardenwood-Lobdell Connector), which included coordinating all aspects of project delivery (e.g. traffic analysis, environmental permitting, state and federal agency requirements, design, Right-of-Way acquisition, utility coordination) for reducing project delivery time (schedules are managed in Primavera P6).
09/14 - 07/19	**LADOTD Highway Safety Manager:** April was responsible for the development and implementation of Louisiana's Strategic Highway Safety Plan in coordination with the Federal Highway Administration. She provided direction to staff on the State's safety data analysis processes for identifying potential Highway Safety Improvement Program projects (23 U.S.C. 148). April provided guidance across disciplines on data-driven safety considerations within LADOTD's project delivery process and led the Complete Streets Policy implementation activities for Louisiana. Other projects included the management of the East Baton Rouge Parish Bicycle and Pedestrian Masterplan contract, oversight of the Local Road Safety Program in coordination with the Louisiana Local Technical Assistance Program (LTAP) Office, and the creation and administration of the first-of-its-kind Safe Routes to Public Places Program. While a LADOTD employee, April represented the State on the AASHTO Task Force for the Second Edition of the Highway Safety Manual and served as an expert witness concerning protected safety data.
02/10 – 09/14	**LADOTD Highway Safety Engineer:** In her position, April managed consultant contracts for feasibility studies, developed a Road Safety Assessment report template and process, developed safety study guidelines for Transportation Management Plans, served on the State's Work Zone Task Force, conducted training and provided technical assistance for highway safety analytical tools, and conducted high-profile engineering studies (e.g. Statewide Cable Median Barrier Study, LA 10 Task Force study)
10/07 – 02/10	**LADOTD Traffic Engineer Intern:** While April served in LADOTD's Traffic Engineering Section, she developed updated pavement marking standards for the state, produced traffic simulation models, reviewed pavement marking and signing plans, designed interstate guide signing projects, assisted in revising traffic impact study policies and trained Districts on new the policy, and reviewed consultant submittals of traffic engineering studies.
05/06 – 10/07	**ABMB (now Stantec) Traffic Engineer Intern:** April produced Interchange Justification Reports, Traffic Impact Studies, and simulation models. She conducted a Statewide Feasibility Study for Continuous Flow Intersections (CFI) for the Arkansas Highway Transportation Department, developed traffic signal inventories, and reviewed traffic signal plans for a variety of private development projects (e.g. Blue Cross Blue Shield, Woman's Hospital, L'Auberge, Walmart, Mall of LA)

17. Firm Experience:

Gresham Smith	**Past Performance Evaluation Discipline(s)***	Planning / Traffic

LADOTD, Traffic Engineering Retainer Contract TO#1: Farmerville State and Local Roads Study

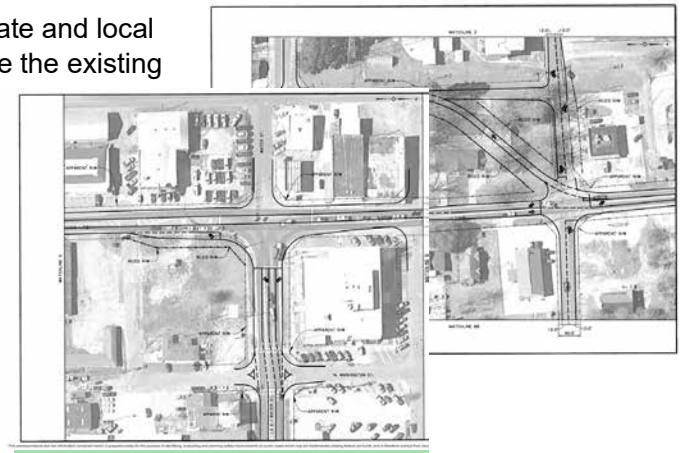
Firm responsibility (prime or sub?)	Prime

Project number	H.012345.1, H012345	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Union Parish, Louisiana		**Owner's Project Manager**	Ryan Hoyt, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1370 / ryan.hoyt@la.gov				

Services commenced by this firm (mm/yy)	03/16	**Total consultant contract cost ($1,000's)**	$420
Services completed by this firm (mm/yy)	10/17	**Cost of consultant services provided by this firm ($1,000's)**	$215

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

LADOTD contracted with Gresham Smith to prepare and coordinate a formal traffic study of various state and local roadways in and around the Town of Farmerville, Louisiana. The objectives of the study was to analyze the existing and projected future traffic conditions in and around the Town of Farmerville and to develop alternative design concepts that would improve the safety and efficiency of roadways in the study area. For this project, Gresham Smith collected and reviewed over 210 crash reports over a span of three years from both the state highway crash database and the local road crash database, Gresham Smith provided collision diagrams to document the crashes and made recommendations of improvements to reduce crashes in locations where it was applicable.



Concepts for Farmerville Traffic Study

Turning movement traffic counts were collected at over 140 intersections and driveways on both state and local roadways throughout the Town of Famerville. Extensive count analyses was perfromed and used to develop regional growth rates for the study area. The growth rate was applied to the existing volumes to develop 2036 traffic volumes. Gresham Smith created a Synchro model of the entire study area for Existing AM and PM periods as well as a Future No Build Model. Models were also created for the various alternative designs for Future Build AM and PM scenarios.

LA 33/15, in Farmerville, is a two-lane facility that acts as the main artery through town. This roadway is fully developed and has a high truck count in addition to the local traffic. Drivers wanting to turn into business or onto side streets cause delay due to the high traffic count and lack of turn lanes. As part of the study several alternatives were developed including the possibility of a bypass around town or a designated truck route. Intersection improvements were analyzed including adding additional lanes and making operational improvements to the traffic signals.

Project Highlights

- Data Collection
- Traffic Forecasting
- Capacity Analysis
- Corridor Modeling
- Development of Conceptual Plans and Cost Estimates
- Presenting alternatives at public meeting

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Bert Moore, Tait Karlson, Ronnie Robinson, Brennon Hughes and Rebecca Murray.

17. Firm Experience:

Gresham Smith	**Past Performance Evaluation Category(ies)***	Traffic

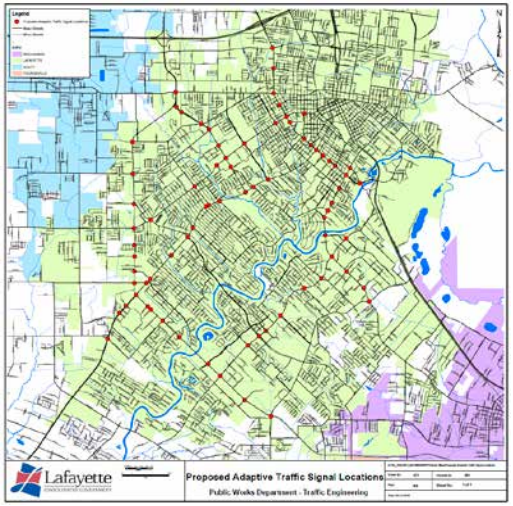
LADOTD, Traffic Engineering Retainer Contract TO#6: LCG Adaptive Traffic Signal				**Firm responsibility (prime or sub?)**	Prime
Project number	H.012018.5	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Lafayette, Louisiana	**Owner's Project Manager**		Andre Fillastre, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.242.4646 / andre.fillastre@la.gov				
Services commenced by this firm (mm/yy)	10/18	**Total consultant contract cost ($1,000's)**		$813	
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$813	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.) *If there is more than one past performance evaluation category included in the advertisement, then indicate which past performance evaluation category(ies) this project is being used to represent.

Gresham Smith was selected to upgrade all of the traffic signals in Lafayette, Louisiana and install Adaptive Traffic Signal Control (ATSC) along eight major corridors. This project includes performing traffic signal inventories for all 190 traffic signals that are maintained by LCG. Once the inventories were performed, design plans were developed for traffic signal controller upgrades for all of the traffic signals to be upgraded from Trafficware 980 TS2 traffic signal controllers to Trafficware 980 ATC traffic signal controllers and the installation of a new emergency vehicle preemption system from Applied Information.

Of the 190 traffic signal locations, 78 intersections will have Synchro Green Adaptive Traffic Signal Control implemented into the project. Gresham Smith designed plans to upgrade the existing vehicle detection systems at these adaptive intersections to meet the needs of the new adaptive system. A before travel time study will be performed prior to construction to compare post installation results.

Gresham Smith is assisting with the implementation and integration of the adaptive system and the emergency vehicle preemption system. Gresham Smith has successfully completed the installation of other adaptive traffic signal systems in numerous states. Upon completion of this project, this will be the largest adaptive traffic signal system in Louisiana.



Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Bert Moore, Rebecca Murray, Julian Bordelon, Kendra McCoy and Daniel Knott.

Project Highlights

- Traffic Signal Inventories
- Traffic Signal Design Plans
- Implementation and Integration of Adaptive Traffic Signal System
- Before Travel Time Studies

17. Firm Experience:

Gresham Smith	Past Performance Evaluation Discipline(s)*	Traffic

LA 37 (Sullivan to Liberty Road) Stage 0				Firm responsibility (prime or sub?)	Sub
Project number	4400007319, H.002297.1	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Central, Louisiana		**Owner's Project Manager**	Hong Zhang	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1421/ Hong.Zhang@LA.GOV				

Services commenced by this firm (mm/yy)	08/18	**Total consultant contract cost ($1,000's)**	$207
Services completed by this firm (mm/yy)	12/21	**Cost of consultant services provided by this firm ($1,000's)**	$137

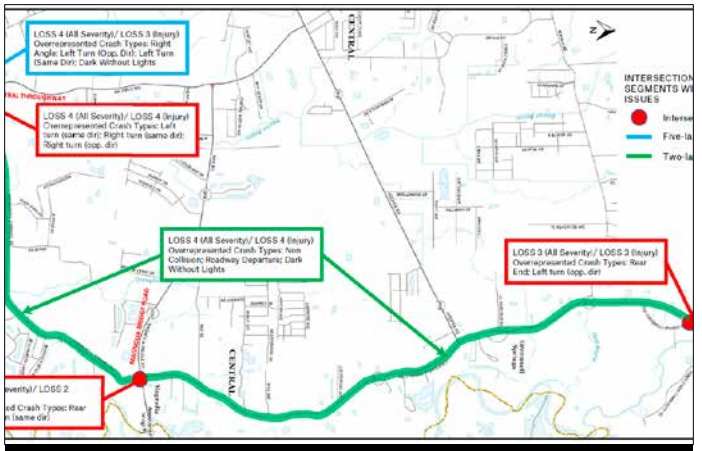
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Gresham Smith was selected as part of a team to perform the traffic study portion of the LA 37 study in Central, Louisiana. The goal of this traffic study was to collect data along the corridor, determine growth rates for traffic volumes, perform safety and capacity analysis of existing and future traffic volumes and develop alternatives for improved capacity and safety along the corridor.

The corridor in question is over 8 miles in length with varying roadway sections and widths. The majority of the corridor is a two lane asphalt roadway that carries over 16,000 ADT with no shoulders and an open ditch. During the peak hours a portion of LA 37 within the study area operates near capacity with commuters traveling the route from Livingston Parish to Baton Rouge. The corridor contains four signalized intersections and a number of driveways and local street intersections that are stop controlled on the minor approaches. In addition, there are four intersections with other state routes.

Gresham Smith performed the analysis for Existing, Future No Build and Future Build Alternatives. Crash reports were reviewed and evaluated using the LADOTD safety triage and the safety tool box. Traffic analysis was performed using mainly HCS and Synchro software and other software tools as needed. Some of the proposed alternatives included: widening the existing roadway to a multi-lane configuration, installation of a superstreet or j-turn configuration, roundabouts, traffic signals, the addition of paved shoulders or other geometric improvements.

Our team evaluated the effectiveness of safety improvements using the Highway Safety Manual (HSM), we identified Safety Performance Functions (SPFs) to determine Level of Service of Safety. To compare alternatives, benefit-cost ratio and net present value analyses were performed.



LA 37 from Sullivan to Liberty Road Safety Issues

Project Highlights

- Data Collection
- Traffic Forecasting
- Capacity Analysis
- Safety Analysis
- Corridor Modeling
- Developing Alternatives

Nature of firm's responsibility:
Subconsultant; responsible for the traffic study.
Firm members involved include:
Bert Moore, Rebecca Murray, and Brennon Hughes, Ronnie Robinson, Tait Karlson, Kendra McCoy, and Richard Savoie.

17. Firm Experience:

Gresham Smith	Past Performance Evaluation Discipline(s)*	Traffic

LADOTD, Traffic Engineering Retainer Contract TO#2: I-210 at LA 11382 (Nelson Road) Interchange Modification Re-Evaluation Study	Firm responsibility (prime or sub?)	Prime

Project number	H.011065.5	**Owner's name**	Louisiana Department of Transportation and Development
Project location	Lake Charles, Louisiana	**Owner's Project Manager**	Brandon DeJean, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.242.4643 / brandon.dejean@la.gov		

Services commenced by this firm (mm/yy)	03/17	**Total consultant contract cost ($1,000's)**	$290
Services completed by this firm (mm/yy)	11/18	**Cost of consultant services provided by this firm ($1,000's)**	$208

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

The approval for revised access at the I-210 at Cove Lane and Nelson Road interchanges was granted under several conditions by the FHWA Louisiana Division. One of these conditions being the re-evaluation of the I-210 at Nelson Road interchange upon completion of the I-210 at Cove Lane interchange. The goal of the final plan was to identify any issues with the Nelson Road and Cove Lane intersections. The calibrated VISSIM models were created to model existing conditions during the AM and PM peaks for three interchanges along I-210: Cove Lane, Nelson Road (LA 1138-2) and Lake Street.

Gresham Smith was responsible for overseeing the data collection, conducting field investigations, travel time runs, reviewing crash reports, developing VISSIM models for existing conditions, determining a regional growth rate, developing and modeling a future No Build condition, and developing a project report.

Traffic count data was collected and used to create VISSIM models of the study area. These models were calibrated to accurately represent existing traffic patterns along the corridor. A Road Safety Assessment was performed to determine the need for the existing U-turn lane and I-210 slip ramp. Gresham Smith staff led the RSA which was comprised of 21 participants from variosu divisions of LADOTD, Calcasieu Parish, LA State Police, the City of Lake Charles Calcasieu Office of Homeland Security, and Calcasieu Parish School Board.

Crash Data Excerpts for I-210 at LA 1138-2 (Nelson Road)

Project Highlights

- Interstate Interchange Analysis
- Interstate Interchange Modeling
- Capacity Analysis
- Traffic Forecasting
- Roadway Safety Assessment
- Developing a Project Report

Nature of firm's responsibility: Prime Consultant; Overall responsibility for the studies. **Firm members involved include:** Bert Moore, Tait Karlson, Dan Knott and Rebecca Murray.

17. Firm Experience

Gresham Smith	Past Performance Evaluation Discipline(s)*	Traffic

LADOTD Traffic Engineering Retainer Contract TO#5: I-10 TMP West of LA 108 Interchange to I-210 Interchange	Firm responsibility (prime or sub?)	Prime

Project number	H.009620.5-1	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Lake Charles, Louisiana		**Owner's Project Manager**	Hadi Shirazi	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.1929 / hadi.shirazi@la.gov				
Services commenced by this firm (mm/yy)	04/18		**Total consultant contract cost ($1,000's)**		$191
Services completed by this firm (mm/yy)	04/19		**Cost of consultant services provided by this firm ($1,000's)**		$110

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

LADOTD is in the process of developing design plans for the Rubblization and Overlay of I-10 from just west of the LA 108 interchange to the I-210 interchange. This project will include: the mill and overlay the asphalt portions of I-10, the removal and replacement of the concrete panels on mainline I-10 through the LA 108 interchange, installation of an auxillary lane in both directions between the LA 108 and I-210 interchanges, and the widening of the bridges over the Maple Fork Creek to include inside and outside shoulders

The objective of the Transportation Management Plan (TMP) is to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits and primary detour roadways on I-10 and I-210 within the Lake Charles Metropolitan Area. In addition, this project will also update the TMP that was performed for the I-210 Prien Lake Bridge Re-Decking and Safety Improvement Project (H.010916.5) dated January 2016.

Project Highlights

- Data Collection on Interstate
- Queue Analysis and Allowable Lane Closure Recommendations
- Traffic Engineering Mitigation Strategies
- Special Traffic Control Details
- Traffic Signal Design

The TMP shall be prepared following the Level 4 checklist as outlined in Louisiana Department of Transportation and Development (DOTD) Engineering Directives and Standards Manual (EDSM) VI.I.I.8 (Transportation Management Plan (TMP)), dated March 13, 2012. As outlined in the EDSM, the necessary tasks shall include: traffic counts and queue analysis, safety analysis, alternate route/detour analysis, stakeholder involvement, temporary traffic control, and documentation.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Bert Moore, Rebecca Murray, Julian Bordelon, Kendra McCoy and Tait Karlson.

17. Firm Experience:

Intelligent Transportation Systems, LLC	Past Performance Evaluation Category(ies)*	Traffic

Calcasieu Point LNG Development				Firm responsibility (prime or sub?)	Sub
Project number	(private)	**Owner's name**	Lake Charles LNG		
Project location	Lake Charles, LA	**Owner's Project Manager**		John Kelly	
Owner's address, phone, email	1300 Main Street; Houston, TX 77002 / 713.989.7411 / john.kelly@energytransfer.com				
Services commenced by this firm (mm/yy)	09/15	**Total consultant contract cost ($1,000's)**		(confidential)	
Services completed by this firm (mm/yy)	10/17	**Cost of consultant services provided by this firm ($1,000's)**		(confidential)	

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

The new Lake Charles LNG plant was constructed to provide new liquification facilities as well as non-liquification support facilities to expand LNG processing at existing facilities in Lake Charles, LA. Because of the significant increase in workforce to support these operations, traffic in and around the new plant was expected to also see significant increases. Additionally, during construction, there would be a need for routes to transport oversized load with large and heavy equipment that was constructed offsite and brought in for the facility.

Traffic Study: ITS LLC was initially tasked with performing an updated traffic study along three major corridors crossing I-210 in Lake Charles, LA, to determine the impacts of the facility development, both during and after construction, and identify areas for improvements. Because at that time the region was undergoing unprecedented industrial growth, and subsequently residential and commercial growth, the traffic study was expansive and changed scope throughout the process as more information was known about future developments in the area. The study mainly focused on three plant construction projects with different levels, phasing, and timelines of construction. The study ultimately led to proposed signal improvements along the three corridors as well as some additional isolated and temporary signals. ITS LLC was also tasked with creating permit plans for almost 30 unique traffic signals including along coordinated corridors, isolated permanent, and isolated temporary signals which were fully actuated.

Proposed Adaptive Signal Intersection: Country Club Road at Weaver Road

Firm members involved include: Clarke Chauvin, Jonathan Fox

Adaptive Traffic Signal Design: ITS LLC was later tasked with accommodating some of the planned construction activities. For site prep, one developer intended to bring multiple loads of dirt from one side of the facility to the other, crossing LA 384 (Big Lake Rd.). ITS LLC performed an additional separate traffic impact study for the addition of a signal for the temporary haul road at a state highway crossing. This was a unique situation that required ITS LLC to manipulate intricate defaults of the analysis software to accurately portray the size, startup time, and top speed of these oversized, articulating dump trucks. Factors evaluated in the analysis included safety, quantifying volumes, designing signal timings, and evaluating the long-term duration of these activities as well as the daily schedule of activities. Ultimately, the traffic study provided adequate signal warrant data and resulted in a temporary signal waiver. As a result, ITS LLC produced a TSI plan set for this intersection for permitting.

17. Firm Experience:

Intelligent Transportation Systems LLC (ITS LLC)	**Past Performance Evaluation Discipline(s)***	Traffic

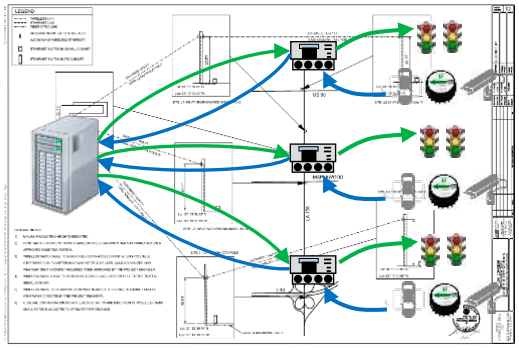
Lake Charles Chemicals – Adaptive Traffic Signal Systems A & B	**Firm responsibility (prime or sub?)**	Sub

Project number	L2CC-990-11-DW-24	**Owner's name**	Sasol		
Project location	Westlake and Sulphur, LA		**Owner's Project Manager**	Eric Flemming	
Owner's address, phone, email	2201 Old Spanish Trail; Westlake, LA; eric.flemming@worleyparsons.com				

Services commenced by this firm (mm/yy)	08/2015	**Total consultant contract cost ($1,000's)**	(confidential)
Services completed by this firm (mm/yy)	07/2019	**Cost of consultant services provided by this firm ($1,000's)**	(confidential)

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

ITS LLC worked with the Louisiana Department of Transportation and Development and Trafficware, the system manufacturer, to turn on the first Adaptive traffic signal system in the State of Louisiana. The system has eased travel along the corridor, allowing better progression and more efficient operations.



Getting to the point of turning on the system took a lot of project management, planning, coordination, design and integration. ITS LLC performed signal design for six traffic signals on the Sampson St. corridor (System A) and four traffic signals on the LA 108 corridor (System B). The design included upgrading controllers to ATCs, upgrading detection for increased accuracy and traffic data collection, as well as PTZ CCTV camera for remote monitoring (see picture) and seven BlueTOAD units for travel time and speed data collection. In addition to determining the network allocations and communications paths, ITS LLC also designed, configured, and implemented the communications equipment.

A private cellular network connection was originally chosen as an alternative to fiber optic communications. ITS LLC was retained to provide ongoing maintenance support which has included troubleshooting server, network, and detection issues. Since DOTD's ITS Section completed the Lake Charles ITS Phase 2, it allowed ITS LLC to move the cellular communications system over to an unlicensed wireless radio system. ITS LLC conducted wireless assessments, designed, configured and installed 18 radio units between the two systems. This has resulted in fewer adaptive nuisance alarms as well as removed ongoing monthly cellular charges. This project ultimately brought 12 adaptive signals online and established the infrastructure needed to continue to add adaptive systems in the area. Sasol and the design team were recognized for their efforts by receiving the 2018 Louisiana Transportation Conference award for "Use of Innovative Product or Technology."

Nature of firm's responsibility: Sub-Consultant; Responsible for all traffic engineering tasks including studies, design, and communications
Firm members involved include: Jonathan Fox, Clarke Chauvin

17. Firm Experience:

Intelligent Transportation Systems LLC (ITS LLC)	Past Performance Evaluation Discipline(s)*	Traffic

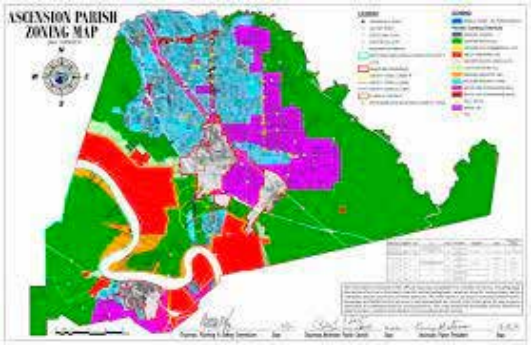
Ascension Parish Traffic Impact Studies IDIQ Contract				Firm responsibility (prime or sub?)	Prime
Project number	N/A	**Owner's name**	Ascension Parish		
Project location	Ascension Parish, LA		**Owner's Project Manager**	Jerome Fournier	
Owner's address, phone, email	615 Worthey Road; Gonzales, LA 70737; (225) 450-1371; Jerome.fournier@apgov.us				

Services commenced by this firm (mm/yy)	10/2022	**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)**	unknown

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

ITS LLC was selected by Ascension Parish for an indefinite delivery, indefinite quantity (IDIQ) contract to perform traffic impact studies for proposed commercial and residential developments throughout the Parish.

Due to rapid growth throughout the Parish, the leadership of Ascension Parish receives multiple requests for permitting of new developments every month. While the parish required traffic impact studies to be completed by the developers' chosen consulting engineer, the Parish staff found the reports and results the Parish received were inconsistent and were not always objective. As a result, the Parish Council recently passed an ordinance that would allow the Parish to contract consulting firms directly to perform the studies for the proposed developments. The Parish selected ITS LLC for an as-needed contract to perform these traffic impact studies.



The scope of work includes performing traffic impact studies (TISs) for a variety of commercial and residential developments that may include subdivisions, multi-family developments (apartment homes), strip retail centers, big box stores, restaurants, office complexes, industrial facilities, and more. Each proposed development is unique and will have differing requirements for the studies. In cases where the development lies within an area that would trigger the need for a study submitted to LADOTD, the study performed under this contract will fully-comply with all Traffic Engineering Process and Report requirements so that the Parish' and LADOTD's review and approval processes can occur simultaneously, adding efficiencies to the process.

Nature of firm's responsibility: Prime Consultant; Responsible for all traffic engineering study tasks
Firm members involved include: Jonathan Fox, Kimberly McDaniel, Diane Hammonds, Clarke Chauvin, Colin Francis

17. Firm Experience:

Quality Counts, LLC	**Past Performance Evaluation Discipline(s)***	Traffic / Other (Data Collection)

LADOTD Traffic Engineering Retainer Contract, TO #1, #2, #3, #4 & #5	**Firm responsibility (prime or sub?)**	Sub

Project number	H.012345.1, H012345;	**Owner's name**	We were hired by Gresham Smith for the data collection		
Project location	Farmerville, LA and Lake Charles, LA		**Owner's Project Manager**	Ryan Hoyt	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1370 / ryan.hoyt@la.gov				

Services commenced by this firm (mm/yy)	03/2016	**Total consultant contract cost ($1,000's)**	$1,500
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$122

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)
As a subcontractor to Gresham Smith, Quality Counts has managed the traffic data collection components of various projects for LADOTD under the Retainer Contract for Safety Studies. QC's objective in these projects is to analyze existing traffic conditions to assist with the development of design concepts that improve the safety and efficiency of the study areas. Data is also used to project future roadway conditions after configuration improvements are implemented. These study areas often involve segment and turning movement count data collection along main arteries and include various types of intersections and interchanges. Floating car GPS studies are also performed occasionally to better assess travel time conditions through the study area. Some of these efforts included:

- Task Order #1 – Farmerville, LA: As part of this effort, QC collected 7 week-long volume and classification counts and 121 48-hour volume and classification counts within and on the outskirts of Farmerville. Volume, classification, and speed reports were also collected for 48 hours at two additional locations. The data was collected, quality controlled, and reported within one month.

- Task Order #2 – I-210 & Nelson Rd: QC collected 42 peak 2-hour turning movement counts, 5 week-long volume and classification counts, 29 48-hour volume and classification counts, and 3 week-long volume-only counts. On the high-speed I-210 facility, QC used nonintrusive side-fire Wavetronix SmartSensor HD units to collect week-long volume and classification data. All of the data was collected, quality controlled, and reported within one month.

- Task Order #3 – US 171 in Lake Charles: For this project, QC was tasked with collecting 36 peak 2-hour turning movement counts, 11 week-long volume, classification, and speed counts, and 36 48-hour volume, speed, and classification counts. All of the data was collected, quality controlled, and reported within one month.

Task Orders #4 and #5 - US 90 TMP and I-10 TMP from I-210 to west of LA 108 - for these projects, QC collected 7 day 24 hr counts along I-10 and at the US 90 and LA 108 interchange ramps. These counts collected volume, speed and classification data as well. All of the data was collected, quality controlled, and reported within one month.

Nature of firm's responsibility: Subconsult; responsible for data collection
Firm members involved include: Amanda Lenz, Noah Smith, Sandra Fitzgerald

17. Firm Experience:

Quality Counts, LLC	**Past Performance Evaluation Discipline(s)***	Traffic / Other (Data Collection)

Hooper Road Improvements				**Firm responsibility (prime or sub?)**	Sub
Project number	QC #150941	**Owner's name**	We were hired by CDM Smith Houston, who was working for LADOTD		
Project location	Hooper Rd Corridor from Blackwater Rd to Sullivan Rd		**Owner's Project Manager**	CDM Smith Manager – Ossama Ramadan	
Owner's address, phone, email	CDM Smith Inc. – 11490 Westheimer Rd, Suite 700 Houston, TX 77077 | 713-423-7382 | ramadanoe@cdmsmith.com				

Services commenced by this firm (mm/yy)	01/2020	**Total consultant contract cost ($1,000's)**	Unknown
Services completed by this firm (mm/yy)	03/2020	**Cost of consultant services provided by this firm ($1,000's)**	$25,235

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

Quality Counts was hired by CDM Smith to collect traffic counts on Hooper Rd NE of Baton Rouge during the winter of 2020. This included tube counts, driveway, counts, Turning Movement counts, and onsite vehicle demand counts freeway Radar counts. Amanda Lenz managed the project and coordinated the fieldwork.

Nature of firm's responsibility: Subconsult; responsible for data collection
Firm members involved include: Amanda Lenz, Noah Smith

17. Firm Experience:

Quality Counts, LLC	**Past Performance Evaluation Discipline(s)***	Traffic / Other (Data Collection)

Regional Traffic Data Collection Program				**Firm responsibility (prime or sub?)**	Sub
Project number	QC #151261	**Owner's name**	Capital Region Planning Commission		
Project location	Baton Rouge Metropolitan Area		**Owner's Project Manager**	Pong Wu	
Owner's address, phone, email	CDM Smith Inc. – 11490 Westheimer Rd, Suite 700 Houston, TX 77077 | 713-423-7382 | ramadanoe@cdmsmith.com				

Services commenced by this firm (mm/yy)	01/2020	**Total consultant contract cost ($1,000's)**	Unknown
Services completed by this firm (mm/yy)	08/2021	**Cost of consultant services provided by this firm ($1,000's)**	$167,032

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

Quality Counts provides a variety of data collection services for the Capital Regional Planning Commission (CRPC) which is the Metropolitan Planning Organization for Baton Rouge. Data is used to monitor performance of the transportation network and validate the long-range regional transportation plan. QC also performed counts in Spring 2020 during the Covid-19 pandemic focusing on freight movements throughout the area. Through August 2021, QC has collected over 1,000 tube counts, mainline video counts freeway side-fire radar counts. Each collection location includes site photography and is delivered as part of a customized spreadsheet along with our standard reports. Amanda Lenz managed the project and coordinated the fieldwork.

Nature of firm's responsibility: Subconsult; responsible for data collection
Firm members involved include: Amanda Lenz, Noah Smith

17. Firm Experience:

Grey Engineering, LLC	**Past Performance Evaluation Category(ies)***	Traffic / Planning

Commerce Street Betterment Project	**Firm responsibility (prime or sub?)**	Prime

Project number	N/A	**Owner's name**	Lake Charles LNG	
Project location	St. Francisville, LA	**Owner's Project Manager**		Laurie Walsh
Owner's address, phone, email	11936 Ferdinand Street, St. Francisville, LA 70775 / 225.635.3688 / lwalsh@townofstf.com			
Services commenced by this firm (mm/yy)	06/22	**Total consultant contract cost ($1,000's)**		$25
Services completed by this firm (mm/yy)	06/23	**Cost of consultant services provided by this firm ($1,000's)**		$25

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

April, as the firm's owner/principal and engineer, is the lead for the Commerce Street Betterment Project extending from Burnett Road to Pecan Grove Road. The project goals are to improve walkability, reduce vehicular speeds, enhance tourism, encourage healthy transportation choices, and protect the environment through the use of green infrastructure strategies. Phase 1 will extend from Burnett Road to Ferdinand Street and include angled on-street parking along the edge of Parker Memorial Park, burial of overhead electric power lines, ADA compliant sidewalks on both sides of the roadway, pedestrian-scale lighting, and a raised crosswalk with curb extensions and biofiltration beds on both ends.

Phase 2 will extend from Ferdinand Street to Pecan Grove Road and will include a signal upgrade at the intersection of Commerce Street and Ferdinand Street to include audible pedestrian signals, ADA compliant sidewalks on both sides of the roadway, pedestrian-scale lighting, and a raised crosswalk with curb extensions and biofiltration beds on both ends.

Firm members involved include: April Renard

17. Firm Experience:

Grey Engineering, LLC	**Past Performance Evaluation Category(ies)***	Traffic / Planning

MOVEBR US 61 / Scenic Highway Enhancement				**Firm responsibility (prime or sub?)**	Sub
Project number	20-EN-HC-0006	**Owner's name**	City of Baton Rouge – Parish of East Baton Rouge		
Project location	Scotlandville, LA	**Owner's Project Manager**		Tom Stephens	
Owner's address, phone, email	1100 Laurel Street, Baton Rouge, LA 70802 / 225.389.3186 / tstephens@brgov.com				
Services commenced by this firm (mm/yy)	02/22	**Total consultant contract cost ($1,000's)**		$25	
Services completed by this firm (mm/yy)	06/23	**Cost of consultant services provided by this firm ($1,000's)**		$25	

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

April serves as a sub-consultant to GOTECH, Inc. who is responsible for surveying and preliminary engineering services for US 61 / Scenic Highway from LA 408 / Harding Boulevard to Swan Avenue. Project concepts are constrained by existing Right-of-Way and limited budget. The scope of work includes a topographic survey, traffic study, existing drainage map, drainage design, green infrastructure report, typical sections, plan and profile sheets, a design study, and preliminary design report.

April worked with GOTECH to develop conceptual geometry and also worked with Arcadis to produce a traffic study that assessed feasible alternatives for the corridor and the intersections. Draft roadway geometry has been developed to incorporate ADA compliant sidewalks, bike facilities, traffic calming countermeasures, transit stop improvements, and crossing improvements.

The final design study will include a proposed typical section, plan and profile sheets, intersection geometry and a preliminary engineering cost estimate. In addition, safety improvements will be incorporated at the intersection of Scenic and Harding Boulevard.

Firm members involved include: April Renard

17. Firm Experience:

Grey Engineering, LLC	Past Performance Evaluation Category(ies)*	Traffic / Planning

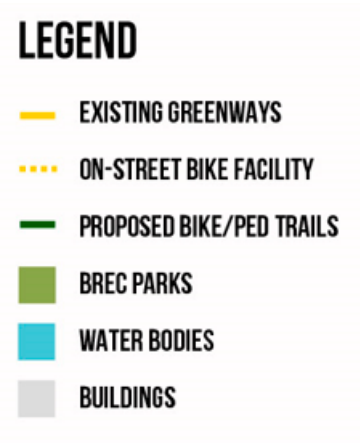
BREC Dawson's Creek Trail & Health Loop	Firm responsibility (prime or sub?)	Prime

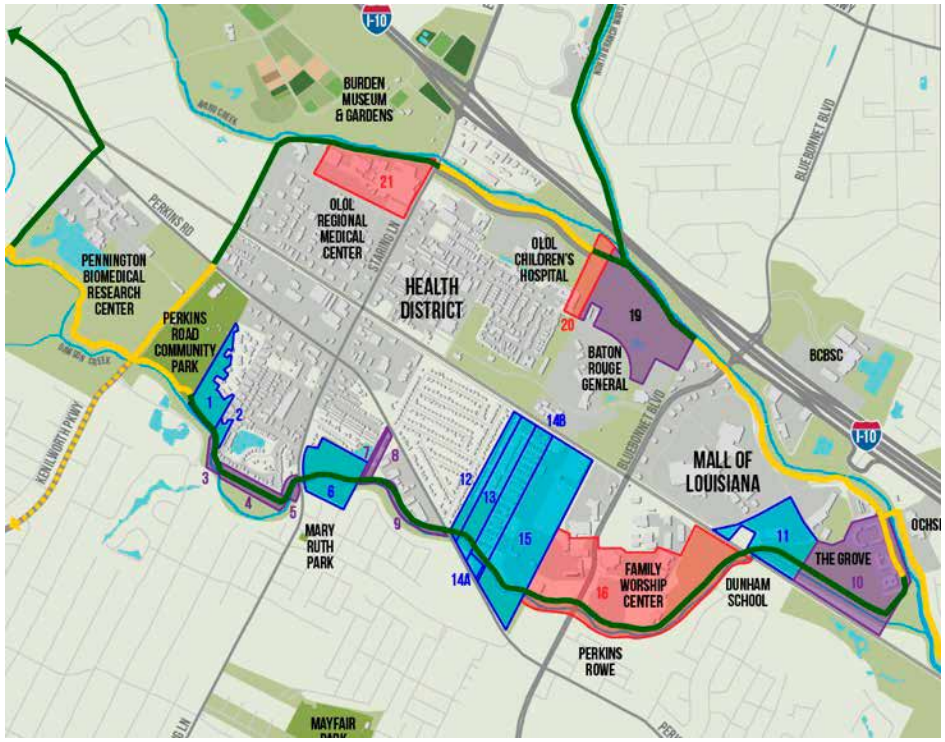
Project number	N/A	**Owner's name**	BREC	
Project location	Baton Rouge, LA	**Owner's Project Manager**		Kelly Duggan
Owner's address, phone, email	6201 Florida Boulevard, Baton Rouge, LA 70806 / 225.273.6405 EXT 1701 / kelly.duggan@brec.org			
Services commenced by this firm (mm/yy)	10/22	**Total consultant contract cost ($1,000's)**		$6
Services completed by this firm (mm/yy)	12/23	**Cost of consultant services provided by this firm ($1,000's)**		$6

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

April is the lead for developing conceptual layouts for the Dawson's Creek Trail, connecting the BREC Perkins Road Community Park to other trail segments and eventually the Ward's Creek Trail. The scope of work includes conducting on-site assessments of existing conditions, identifying existing utilities and significant vegetation, collecting ground elevation data, and establishing servitude limits for trail construction.

Firm members involved include: April Renard





18. Approach and Methodology:

The Gresham Smith Team

The Gresham Smith Team offers the LADOTD Traffic Section a partnership serving the department as former employees and as consultants who have delivered successful projects, ahead of schedule, and in strict accordance with all LADOTD procedures and the Traffic Engineering Process and Report (TEPR) guidelines for several years. For this IDIQ contract, Gresham Smith has committed to helping LADOTD deliver on this large undertaking, and we have put together a large, proven, experienced team. **Gresham Smit**h will lead this project, managing, coordinating, performing, and reviewing the deliverables of our team. Gresham Smith has held a previous Traffic Engineering Retainer Contract and completed numerous standalone projects for the LADOTD Traffic Engineering section. **Quality Counts, LLC** will provide traffic data collection services for this IDIQ. Quality Counts has held Traffic Data Collection Retainer Contracts for Section 21 in the past and has also teamed with Gresham Smith on previous Traffic Engineering Retainer Contracts and standalone projects. **Intelligent Transportation Systems, LLC** staff are experienced in performing traffic engineering analysis studies and traffic signal designs for LADOTD and will provide support to the Gresham Smith staff with these tasks. **Grey Engineering** will assist the team with portions of the project regarding safety analysis and ADA accommodations along corridors and intersections.

As you have seen in our resumes, several of our team members, both at Gresham Smith and our talented subconsultants, have worked very closely with LADOTD Traffic Engineering staff as either co-workers, through past project experiences, or through participation in professional organizations such as ITE. Members of our team have previously worked as employees of LADOTD at the headquarters level (Traffic, Roadway, and Safety sections) and at the district level (District 61 and 62), including our **Project Executive and Project Manager Bert Moore, who was previously the District 61 Traffic Operations Engineer of LADOTD. Since leaving LADOTD to join Gresham Smith, Bert has served the Traffic Engineering Section as a trusted advisor and has lead our team to successfully deliver numerous large traffic studies and design projects for LADOTD under both a previous Traffic Engineering Retainer Contract and standalone projects.**

Our Project Approach

Gresham Smith's local Baton Rouge office consists of a mix of senior engineers, engineers, and engineer interns who will be dedicated to the project. Our offices are located less than 10 miles from LADOTD headquarters should we need to meet in person to discuss any time sensitive issues. In addition to our talented local staff, we are committing regional experts to support our team as needed as technical resources. **We currently have 8 staff at various levels who have completed all three levels of the LADOTD Traffic Engineering Process and Report (TEPR) Training, and we have additional staff that are committed to earning the certifications once they are offered again.** The bulk of the traffic analysis and design work will mainly be performed by engineers, with QC and guidance from senior engineers and regional experts as needed. Detail work and plan development will mostly be performed by engineer interns, with QC and guidance from both engineers and senior engineers. The Gresham Smith Team plans to complete all analysis and design in accordance the current TEPR guidelines, the MUTCD, the LADOTD Traffic Signal Manual, Traffic Signal Inventory (TSI) format, LADOTD's latest software and deliverable standards including MicroStation, Inroads, Design Manuals and Guidelines.

QA/QC

Gresham Smith will manage the entire project and recognizes that providing a complete, accurate and quality product is our responsibility. Project manager, Herbert "Bert" Moore, II, P.E., PLS, PTOE, will develop a customized QAQC plan specifically for this IDIQ contract once our team is selected using our Five-Step Quality Program as the guideline for QAQC. The quality control plan will identify the process to ensure the professional quality and technical accuracy of all documentation and calculations provided under this retainer contract. The plan will also address the details of our review process. Gresham Smith will perform off team QAQC reviews for all work performed by other team members in accordance with our QAQC plan. We will ensure that all team members follow the QAQC plan developed for this project. QC backup will also be provided for each submittal to Gresham Smith.

The Gresham Smith Team's knowledge and familiarity with LADOTD Traffic Section, their processes and procedures, and a specific QAQC plan could also be applied to assist the department with program management services in order to supplement the LADOTD traffic engineering staff, if so desired under this contract. As evident in the resumes included within this proposal and as previously discussed, many of the staff included on our team are staff are former LADOTD employees and have assisted with preparation of numerous design guidelines and manuals for the department in the past. Additionally, we all have working knowledge and are very familiar with the requirements and expectations that the LADOTD traffic section has for work performed for the department.

Scoping Meeting

We anticipate that each task order assigned under this contract will begin with a preliminary scope provided by LADOTD. Our team will review the scope provided and identify any existing data that may be available, such as previously performed studies, traffic data, traffic signal design plans or inventories, etc., prior to any scoping meeting that may be necessary with the

LADOTD personnel. The goal of the scoping meeting will be to ensure that all project elements are accounted for, the projects limits are known and to identify and discuss any unforeseen elements. **An example of this would be similar to something that we encountered on the I-210 at Nelson Road Study where major improvements to West Prien Lake were planned due to a large mixed-use development. To address these concerns, a supplement to our scope was necessary to incorporate the I-210 at Lake Street Interchange into the study. This supplement delayed the start of the project and could have potentially been avoided by discussing it early in the scoping process.** This meeting will ensure that the Gresham Smith team can provide timely and accurate work hours and minimizing contract negotiation time, revisions and ultimately promoting project delivery.

Kickoff Meeting

Once all the details of the scope have been negotiated, the kickoff meeting will be held. The Gresham Smith team will arrange the meeting and prepare an agenda that will be provided to LADOTD a week in advance of the meeting. In attendance will be LADOTD traffic engineering project manager and associated staff, the district traffic operations engineer as well as other district personnel, representatives from other applicable sections from LADOTD, local stakeholders, and the Gresham Smith team. The goal of the meeting will be to discuss the project schedule, scope of services, traffic study MOE's, review additional information, establish communication schedules and protocols to ensure all stakeholders are aware of these items. After the meeting, Gresham Smith will prepare meeting minutes with action items for all participants and send it out for review and confirmation.

Data Collection

Traffic engineering is a data driven process. Regardless if the scope is an interchange study, a corridor study or a traffic signal design, collection of traffic data is essential and we anticipate that it will be necessary on every task order under this IDIQ contract. **Under our previous Traffic Engineering Retainer Contract with LADOTD, this equated to approximately 12% of the total contract.**

Traffic Engineering Studies

Following the guidance from the LADOTD Traffic Engineering Process and Report, traffic studies are scalable depending on the size and complexity of the study area. It is anticipated that studies performed under this contract could consist of large studies such as Access Justification Reports/Access Modification Reports (AJR/AMR), which would have a regional impact and could include multiple interchanges along Interstate route and the routes along those interchanges, to medium sized studies which may include a corridor with numerous intersections along the study area, or small studies that include just a single intersection. As you can see in our proposal, through our previous contract we have performed all types of studies including Vissim modeling at interchanges, performing Transportation Management Plans (TMPs) for interstate construction projects and HCS analysis for corridors and intersections.

Our projects will begin with an initial data collection to identify the critical time periods that will be analyzed within the study. Once our seven day traffic counts are completed, we will meet with our Traffic Project Manager to discuss the peak periods determined from those counts. Once the peak periods have been determined, the final data collection will begin which will include turning movement counts and field observations. Our team will perform the field observations to verify geometry of the roadways and to observe the existing traffic conditions which may provide insight not included within the traffic data. **In our experience, some of the information we have gathered from field observations includes bus stops impeding traffic, driveways with poor geometry or too close to intersections, and pedestrian demand in unexpected locations.** Additionally, during this time we will review historic traffic counts previously collected by LADOTD as well as any data we can get from a regional traffic demand model to determine growth rates for the roadway networks within the study area. These growth rates will be submitted to our LADOTD PM who will discuss with the planning section for concurrence.

Once the final data collection is approved, we will begin performing the existing safety and existing and no build analysis concurrently in order to minimize the study schedule. The safety analysis will include review of the crash history within the study area and identification of crash trends. This will help us identify conditions that could be improved with the proposed alternatives to improve safety. **One thing our staff has developed is that we have been able to automate the creation of crash diagram using spreadsheets and GIS tools. This will result in cost and time savings that will benefit LADOTD.** The existing traffic analysis will include either HCS analysis or Vissim modeling, depending on the major concerns and whether or not the study area has capacity issues. Traffic signal warrants analyses may also be required at this stage. Once the existing analysis or model has been completed, we will use the traffic growth rates determined within the final data collection to develop future no build volumes and perform the analysis again using these future volumes with the existing geometry and control. The results of the analysis will be submitted to LADOTD for review and will be followed up with a meeting to discuss the results. Potential improvements will be discussed through this meeting and some alternatives will be eliminated from future consideration if they are deemed not feasible or expected to perform poorly. This process may follow the CAP-X guidelines should an interchange be involved. For standard intersections, various types of configurations and control types will be considered. These alternatives will be evaluated at a high level qualitative comparative analysis to evaluate which proposed alternatives will move forward for detailed consideration. The categories that could be used to evaluate these alternatives could include operations, costs, Right-Of-Way, environmental

impacts, and other impacts, such as impacts to accessor social impacts created by separating communities.

The process will continue with the redistribution of volumes for the new alternative configurations and build alternative analyses. The same MOEs that were previously determined will be used to the performance of the proposed alternatives. Additionally, high level designs and cost estimates of the new alternatives in accordance with LADOTD's design policies and guidelines will be developed and led by Gresham Smith's roadway design team. At this stage, a quantitative comparison will be performed to show in detail how each alternative will compare to the others. The categories that could be used to evaluate these alternatives could include construction costs, required Right-Of-Way, traffic operational performance, safety and utility conflicts. After this evaluation is completed, it may be necessary to perform additional analysis to identify the best solution. If one alternative is a clear solution, the process will be completed with the development of the draft report. Should this analysis be performed for AJR/AMR, additional FHWA checklists may need to be completed. once the draft report has been reviewed by LADOTD, the final meeting will be had to discuss the report and any comments that LADOTD may have before the report is finalized. If the study is a portion of a Stage 0 feasibility study, it may also require the completion of the Preliminary Scope and Budget Checklist and the Environmental Checklist. This may also require the development of a Benefit / Cost ratio that compares the savings in reduced delay and crashes to the overall cost of the proposed improvements.

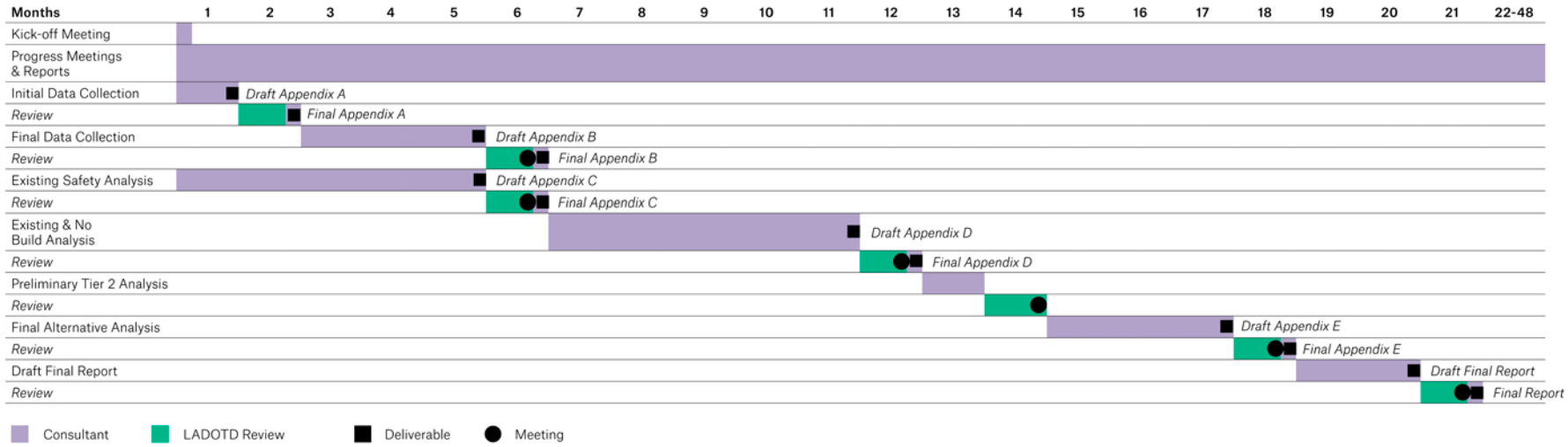
Traffic Signal Designs

Traffic Signal Inventories

Traffic signal design work will also begin with a scoping meeting, a kickoff meeting and data collection. Additionally, our staff will perform a field review and perform a traffic signal inventory at each signalized intersection. This inventory will collect information for all of the traffic signal equipment installed in the field, the geometry and lane usages of the roadways, and information on how the traffic signal controller is programmed, as far as which phases are programmed for each direction and the timing parameters programmed for each phase. **Gresham Smith and our subconsultants on our team have multiple staff members with the proper IMSA Traffic Signal Technician Level II certifications required to enter the traffic signal controller cabinets to gather some of this inventory information.**

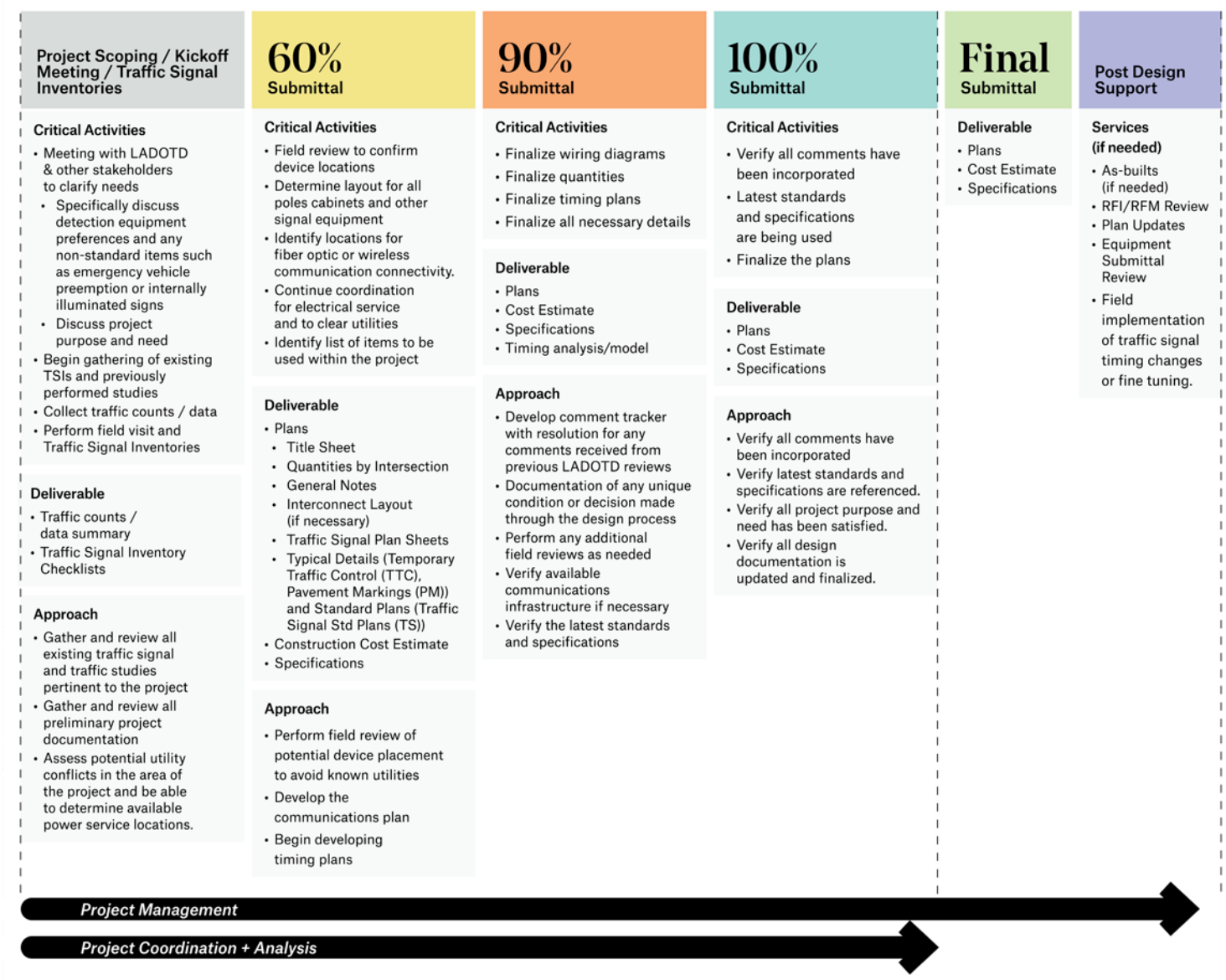
The traffic signal design could include the modification or reconfiguration of the equipment layout and operation of an existing traffic signal or an intersection that is under construction for various phases of construction, such as a standard signalized intersection that is being converted to a roundabout. This would require signal heads to shift as lanes are being diverted around portions of the roundabout that will be under construction. Traffic signal design could also include timing of an existing signalized corridor to better optimize the progression of traffic through the corridor to reduce queues and delay. This will require field observation and potential travel time runs through the corridor to determine the existing deficiencies in the progression. A Synchro model will be created to optimize the timing along the corridor and the phasing of each intersection. **Once the timing plan is completed, our team is fully capable**

Traffic Engineering Process & Report Schedule



of going out to the field to input the proposed timing plans and adjust the offsets in field for each plan to optimize the progression for each time of day plan if LADOTD desires those services.

Traffic Signal Design Schedule

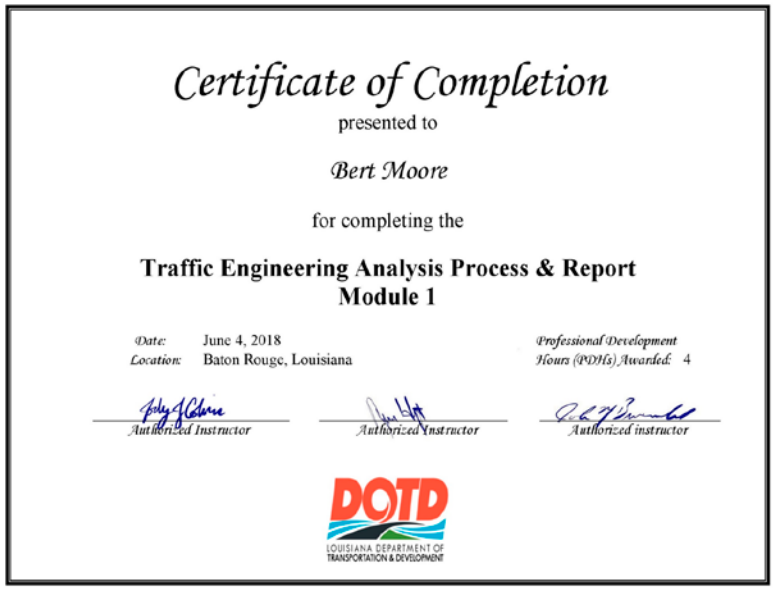


The traffic signal design could also include a modification of an existing signal, an upgrade of some or all of the traffic signal equipment at an intersection or a completely new traffic signal design. These plans may be required to be a standalone set or to be incorporated within a larger project such as a roadway or bridge project. Our team will follow the latest TSI version format to produce these plans and quantities. **Our staff has worked with numerous different municipal agencies within Louisiana for traffic signal design and are very familiar with the nuances and NS items that they utilize for traffic signal design. Some of these items include Applied Information or Opticom Emergency Vehicle Preemption devices, Alpha or Econolite Battery Backup systems, and Inrix NEXT video/radar vehicle detection devices.** Our team is also familiar with multiple communication platforms to ensure connection of the traffic signals to the LADOTD ATMS.Now central traffic signal system using fiberoptic, wireless radios or cellular modems. Additionally, **Gresham Smith and ITS, LLC are the only two firms that have designed and implemented Adaptive Traffic Signal Control (ATSC) systems, which are an emergent technology that allows the traffic signals to adapt to changing traffic patterns, in Louisiana.** The ATSC systems we have implemented are fully compatible with the LADOTD ATMS.Now system.

19. Workload:

Firm	Past Performance Evaluation Disciplines(s) *	State Project Number	Project Name and Location	Remaining unpaid balance**
4400005890 - LADOTD Retainer Contract for Traffic Engineering				
Gresham Smith	Traffic	H.012018.5	Lafayette Adaptive Traffic Signals	$122,288
Gresham Smith	Road	H.012279.5	LRSP/SRTS Endom Bridge Construction Support Supplement	$4,326
Gresham Smith	CE&I/OV / ITS	H.011500.6	Lake Charles ITS Phase 3	$365
Gresham Smith	CE&I/OV / ITS	H.012381.6	Fiber Optic Mapping and Management Services - Calcasieu, Jefferson, Orleans, Ouachita, Plaquemines and St. Charles	$165,076
Gresham Smith	Bridge	H.009730.5	Complex Bridge Inspection TO#4	$8,386
Gresham Smith	Bridge	H.009730.5	Complex Bridge Inspection TO#5	$54,860
Gresham Smith	Road	H.013720.5	LRSP - Bonner Street Bridge Pedestrian Improvements	$12,354
Gresham Smith	Road	H.013767.5	LRSP Signs and Striping - St. Landry and St. Martin Parishes	$19,002
Gresham Smith	Road	H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$133,040
Gresham Smith	Road	H.015086.5	LRSP/STRPPP LA 14	$252,715
Gresham Smith	CE&I/OV	H.009308.6	TO#1 New Orleans DPW SRTS Sidewalk Project	$18,898
ITS, LLC	ITS	H.013256.6	I-10 ITS Scott to Lake Charles - Construction	$14,345
ITS, LLC	ITS	H.014515	511 & ATMS SEA	$13,360
ITS, LLC	ITS	H.013710.6	I-10: US61 to LaPlace Deployment	$20,284
ITS, LLC	ITS	H.011152	I-12- US 190 to LA 59	$49,382
ITS, LLC	ITS	H.007160	EBR Computerized Signal Phase VB	$104,086
ITS, LLC	ITS	H.001234.6	LA1 Port Allen Canal BR Replacement	$14,291
ITS, LLC	ITS	H.013868.6(A)	ITS Routine Maintenance Engineering and Inspection (ME&I)	$339,316
ITS, LLC	ITS	H.013868.6 (B)	ITS Responsive/Emergency ME&I Statewide	$108,114
ITS, LLC	ITS	H.013868.5	ITS Maintenance Program Management and Operations	$46,941
ITS, LLC	ITS	H.011504	Alexandria Phase 2	$109,668
ITS, LLC	ITS	H.012676	I-10 Ramps at LA 3019 Interstate Improvements	$4,970
Quality Counts	No Current LADOTD Contracts	No Current LADOTD Contracts	No Current LADOTD Contracts	$0
Grey Engineering	No Current LADOTD Contracts	No Current LADOTD Contracts	No Current LADOTD Contracts	$0

20. Certifications/Licenses:



Certificate of Completion

presented to

Bert Moore

for completing the

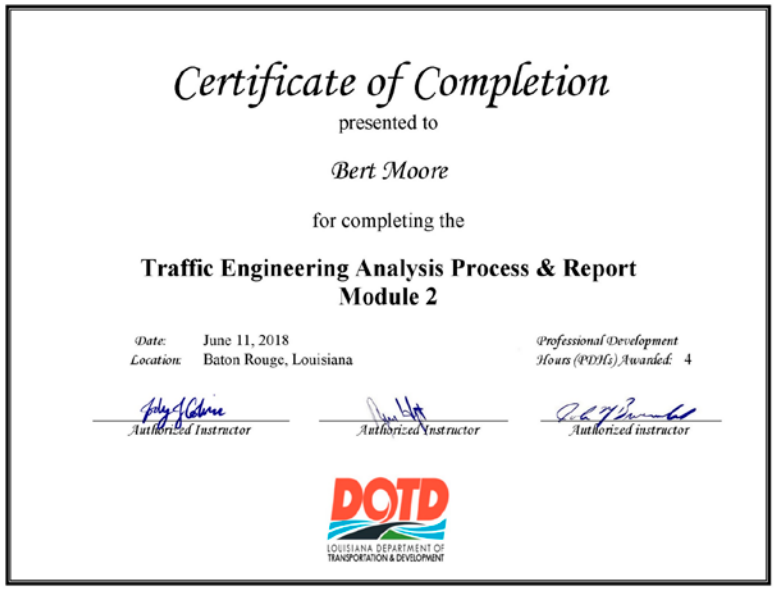
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Bert Moore

for completing the

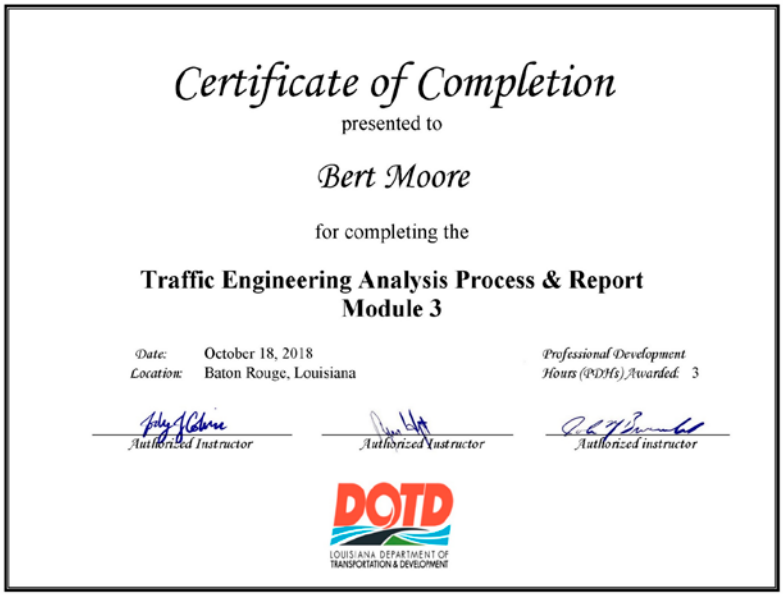
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Bert Moore

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

U.S. Department of Transportation
Federal Highway Administration

RESOURCE CENTER

Certificate of Completion

BERT MOORE

has successfully completed the course entitled:

Designing Pedestrian Facilities for Accessibility (DPFA)

Location: Baton Rouge, Louisiana
Dates: May 08-09, 2017

Hours of Instruction enhancing Professional Development: 12 hrs

Patrick E. Gomez
Civil Rights Specialist
Federal Highway Administration

Ted Green
Professional Engineer
New Jersey LTAP

Certificate of Training

PRESENTED BY

The National Cooperative Research Program

TO CERTIFY THAT

Herbert Moore

HAS SATISFACTORILY COMPLETED 20 HOURS OF TRAINING IN:

Highway Safety Manual Workshop

NCHRP 17-38

Karen K. Dixon, PhD, P.E.
Ida van Schalkwyk, PhD
Larry F. Sutherland, P. E.
Instructors

LOUISIANA'S ON THE MOVE
DOTD
BUILDS THE WAY

December 1-3, 2010
Date

Baton Rouge, Louisiana
Location

Certificate of Training

PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Bert Moore

HAS SATISFACTORILY COMPLETED 3 PROFESSIONAL DEVELOPMENT HOURS IN:

Regional Crash Data Workshop

Director of Louisiana LTAP Center

LOCAL TECHNICAL ASSISTANCE PROGRAM
LTAP

February 23, 2017
Date

Baton Rouge, Louisiana
Location

The American Traffic Safety
Services Association

Hereby recognizes that

Herbert Moore
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/13/2019 to 4/13/2019
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC
SAFETY SERVICES
ASSOCIATION

SLOW

This is to affirm that
Herbert Moore
has satisfied the requirements
to be designated as a
CERTIFIED FLAGGER

Expiration Date 4/25/2023 *State Issued in* LA

Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

Gresham Smith

Trafficware
Engineered by Naztec

April 6, 2016

Mr. Bert Moore
Gresham Smith and Partners
10,000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

Subject: Trafficware Certification

Mr. Bert Moore,

Congratulations on your successful completion of Trafficware University certification requirements in our hardware, traffic management software, and traffic analysis/optimization software.

Please retain this letter to serve as an official document certifying that Mr. Bert Moore is fully certified in the operation and maintenance of all products manufactured and distributed by Trafficware Group, Inc.

Sincerely,

Kris D. McCoy
Account Manager

Trafficware 522 Gillingham Sugar Land, TX 77478 281-240-7233 281-240-7238 Fax Trafficware.com

Gresham Smith

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

BRENNON HUGHES

has participated in

FHWA-NHI-380096V Modern Roundabouts: Intersections Designed for Safety

hosted by

LA DOTD/LTRC

Date: *September 8 and 9, 2020*
Location: *Virtual Delivery*

Hours of Instruction: 6

Instructor

Instructor

Allison H. Landrey
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

The American Traffic Safety Services Association

Hereby recognizes that

Brennon Hughes
has attended
Traffic Control Supervisor-LA State Specific
Training Course

07/26/2018
Date
Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

Ryan A. Wentz
President, CEO

ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

SLOW

This is to affirm that

Brennon Hughes
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Expiration Date 4/28/2023
State Issued in LA

Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

Certificate of Attendance

presented to

Brennon Hughes

for attending

Advanced Highway Safety Manual Training – Interactive Highway Safety Design Model (IHSDM)

16 Professional Development Hours

June 5-6, 2018

Baton Rouge, Louisiana

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Brennon Hughes

has participated in

FHWA NHI #380091V
Planning and Designing for Pedestrian Safety

hosted by

Louisiana DOTD

Date: October 25thru 28, 2021
Location: Online Virtual Delivery

Hours of Instruction: 18

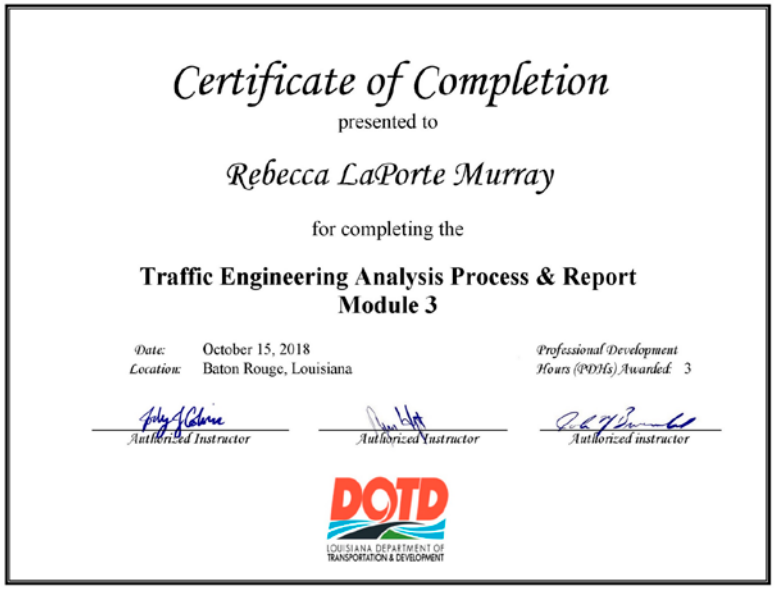
Joe Gilpin Digitally signed by Joe Gilpin Date: 2020.12.03 23:15:13 -05'00'
Instructor

Keith Sinclair Digitally signed by Keith Sinclair Date: 2020.12.03 23:16:51 -05'00'
Instructor

Allison H. Landry, CGMP
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Gresham Smith



Certificate of Completion

presented to

Rebecca LaPorte Murray

for completing the

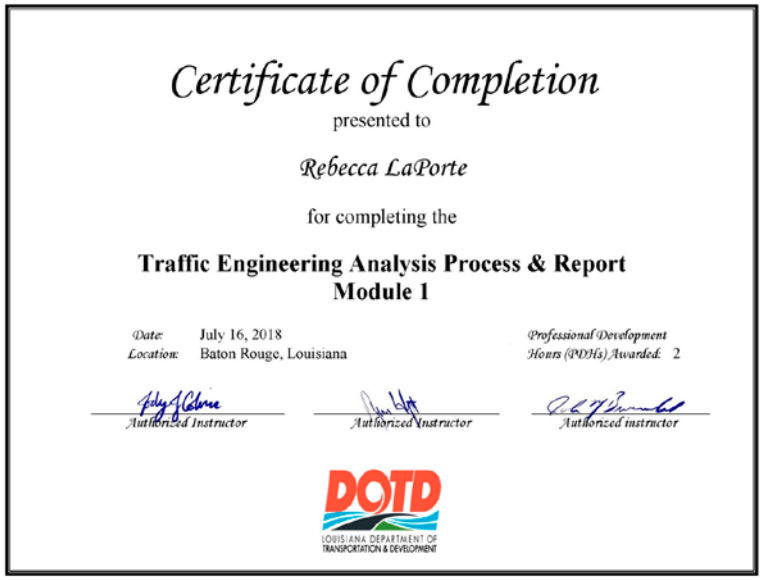
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Rebecca LaPorte

for completing the

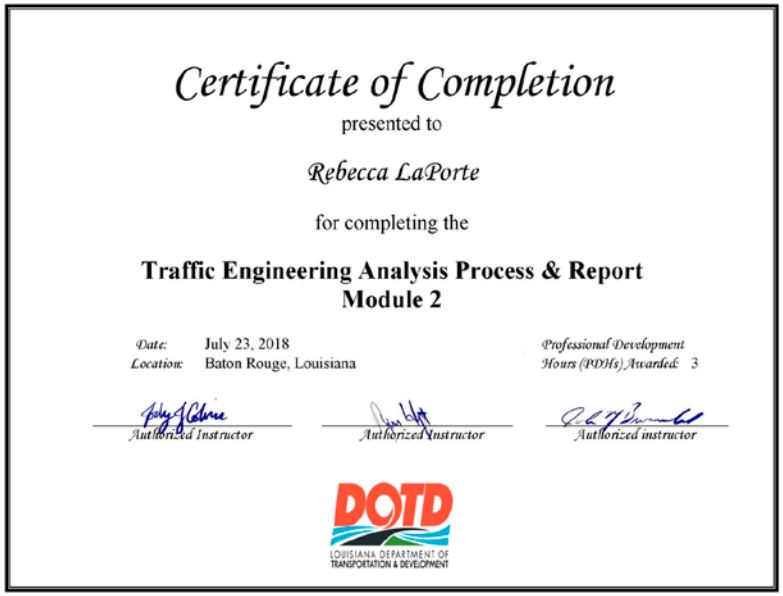
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Rebecca LaPorte

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

presented to

Rebecca LaPorte

for attending

Advanced Highway Safety Manual Training –
Interactive Highway Safety Design Model (IHSDM)

16 Professional Development Hours

June 5-6, 2018

Baton Rouge, Louisiana

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

The American Traffic Safety Services Association

Hereby recognizes that

Rebecca Murray

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

2/14/2020 to 2/14/2020
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

Rebecca Murray

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Expiration Date 2/8/2024

State Issued in LA

Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

The American Traffic Safety Services Association

Hereby recognizes that

Rebecca LaPorte

has attended

Traffic Control Supervisor-LA State Specific

Training Course

1/13/16 to 1/14/16
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Gresham Smith

Trafficware
Engineered by Naztec

April 6, 2016

Mr. Tait Karlson
Gresham Smith and Partners
385B Highland Colony Parkway
Suite 410
Ridgeland, MS 39157

Subject: Trafficware Certification

Mr. Karlson,

Congratulations on your successful completion of Trafficware University certification requirements in our hardware, traffic management software, and traffic analysis/optimization software.

Please retain this letter to serve as an official document that Mr. Tait Carlson is fully certified in the operation and maintenance of all products manufactured and distributed by Trafficware Group, Inc.,

Sincerely,

Kris D. McCoy
Account Manager

Trafficware 522 Gillingham Sugar Land, TX 77478 281-240-7233 281-240-7238 Fax Trafficware.com

Certificate of Completion

presented to

Tait Karlson

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July1, 2019
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Tait Karlson

for completing the

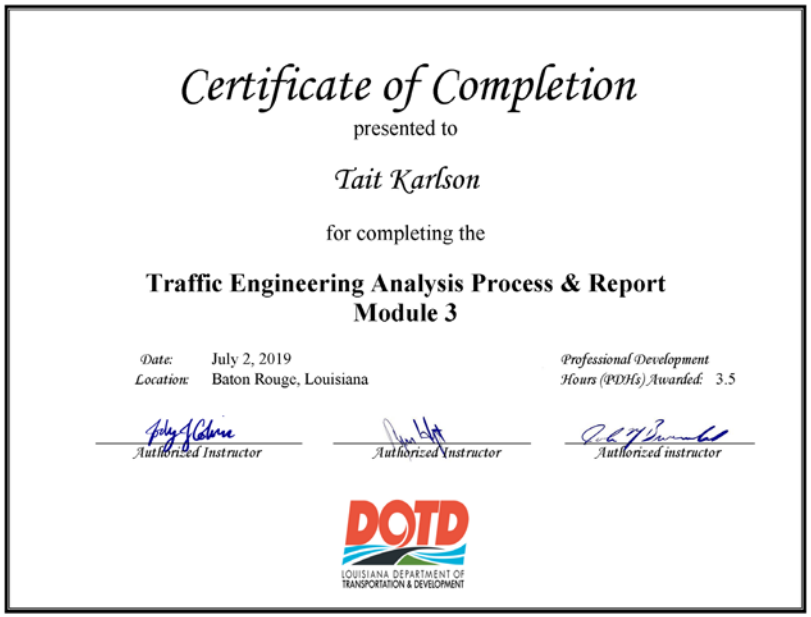
Traffic Engineering Analysis Process & Report
Module 2

Date: July1, 2019
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith



Certificate of Completion

presented to

Tait Karlson

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

Certificate of Completion

presented to

Kendra McCoy

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kendra McCoy

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July 1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kendra McCoy

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

Certificate of Completion

presented to

Payton Nickles

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

Certificate of Completion

presented to

Payton Nickles

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

Certificate of Completion

presented to

Payton Nickles

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT


CERTIFIED PUBLIC SAFETY TECHNICIAN
IMSA
Kari A. Pucker (Bishop)
is hereby certified as a
Traffic Signal Field Technician Level II
by completing all requirements and examination for certification
on 12/3/2020
Valid thru 12/3/2023
Certification #BE_111918
Toby Cummings - Executive Director

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Clarke Phillip Chauvin

License/Certificate Type - Number
PE.0041770

Expiration Date
09/30/2023

Status: Active

The American Traffic Safety Services Association

Hereby recognizes that

Clarke Chauvin

has attended

Traffic Control Technician-LA State Specific

Training Course

10/14/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Transportation Professional Certification Board, Inc.

certifies that

Clarke Phillip Chauvin

has met all of the requirements established by the Certification Board to use the title of

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal. Certificate number 4337 issued in Washington, DC, USA

11/20/17

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Michael K. Park
Chair

Jeffrey T. Paniati
Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Clarke Chauvin

has attended

Traffic Control Supervisor-LA State Spec

Training Course

10/16/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Gresham Smith

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Jonathan Nicolas Fox

License/Certificate Type - Number
PE.0033277

Expiration Date
09/30/2023

Status: Active

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Technician-LA State Specific

08/07/2014
Date

Baton Rouge, LA
Location

Training Course

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Transportation Professional Certification Board Inc.

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

Jonathan Nicolas Fox
Intelligent Transportation Systems LLC
20405 Highland Rd
Baton Rouge, LA 70817 USA

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

Your certification is renewed through 11/7/2022.

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

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

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within **three-months** of your expiration date 11/7/2022. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. http://www.tpcb.org/PTOE/feeschedule.asp

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

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

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

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

Sincerely,

Diane W. Morabito, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Attachments

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Design Specialist - 1 day

Training Course

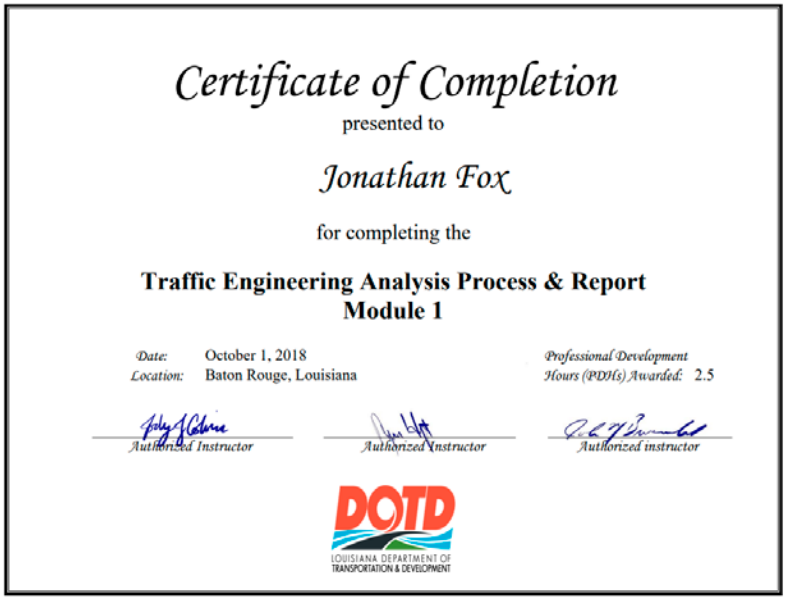
06/22/2015
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO



Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Supervisor-LA State Specific

Training Course

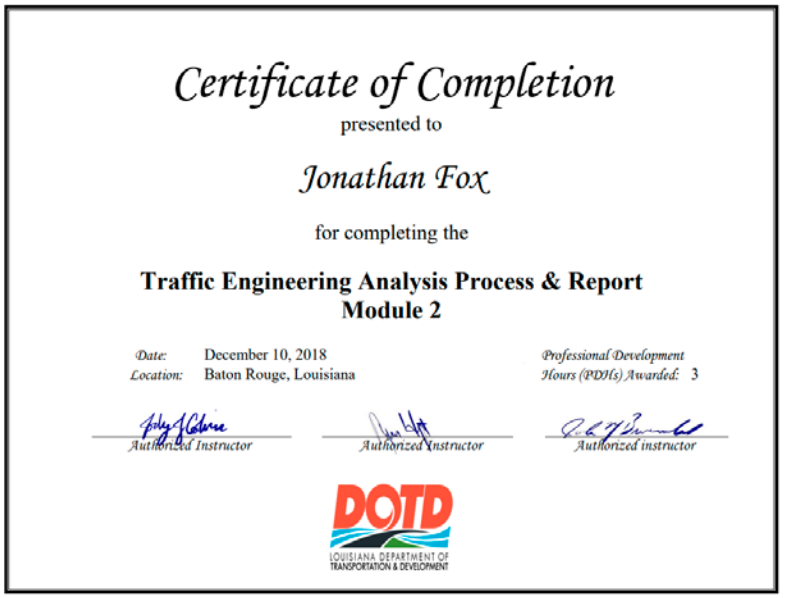
08/09/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO



Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 17, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Diane Callahan Hammonds

License/Certificate Type - Number	Expiration Date
PE.0040749	09/30/2022

Status: Active

Transportation Professional Certification Board, Inc.

certifies that

Diane Callahan Hammonds

has met all of the requirements established by the Certification Board to use the title of

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4118 issued in Washington, DC, USA

12/19/16

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Kenneth W. Ackeret
Chair

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Diane C. Hammonds

has met all of the requirements established by the Certification Board to use the title of

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 798 issued in Washington, DC, USA

8/11/2022

Deborah Snyder
Chair

RSP ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Diane Hammonds
has attended
Traffic Control Technician-LA State Specific
Training Course

4/28/2020 to 4/28/2020
Date

Baton Rouge, LA
Location

Vice President of Member Services

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com

Gresham Smith

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Diane Hammonds
has attended
Traffic Control Supervisor-LA State Specific
Training Course

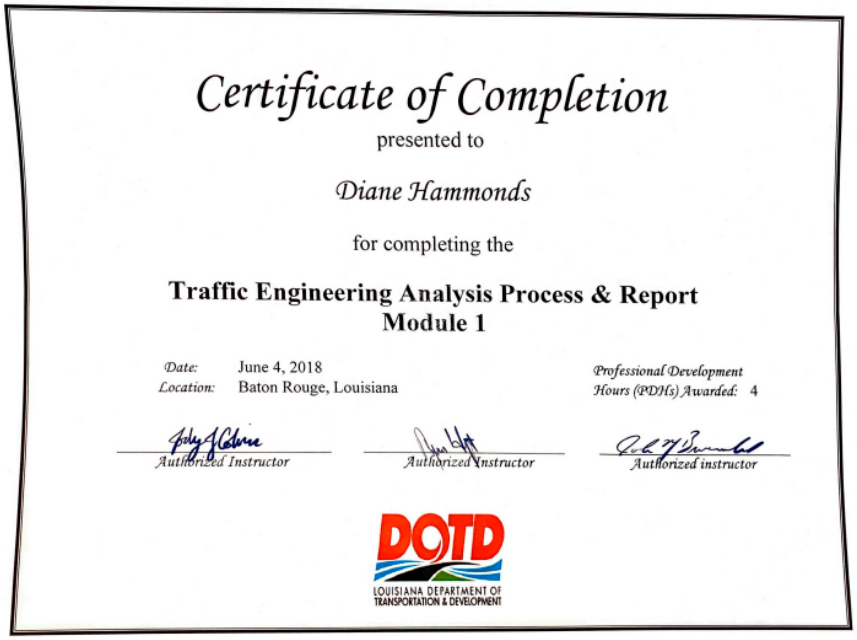
4/29/2020 to 4/30/2020
Date

Location

Vice President of Member Services

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com



Certificate of Completion

presented to

Diane Hammonds

for completing the

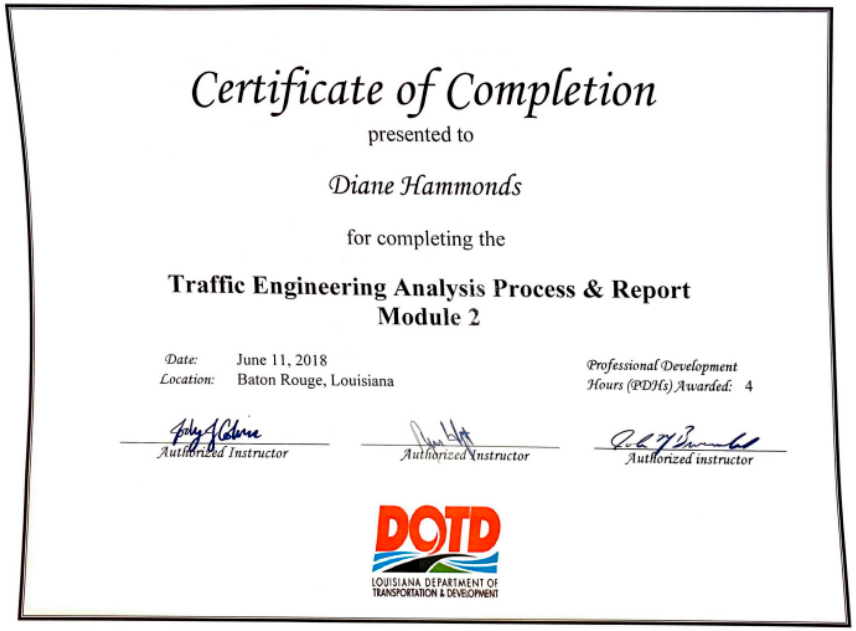
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

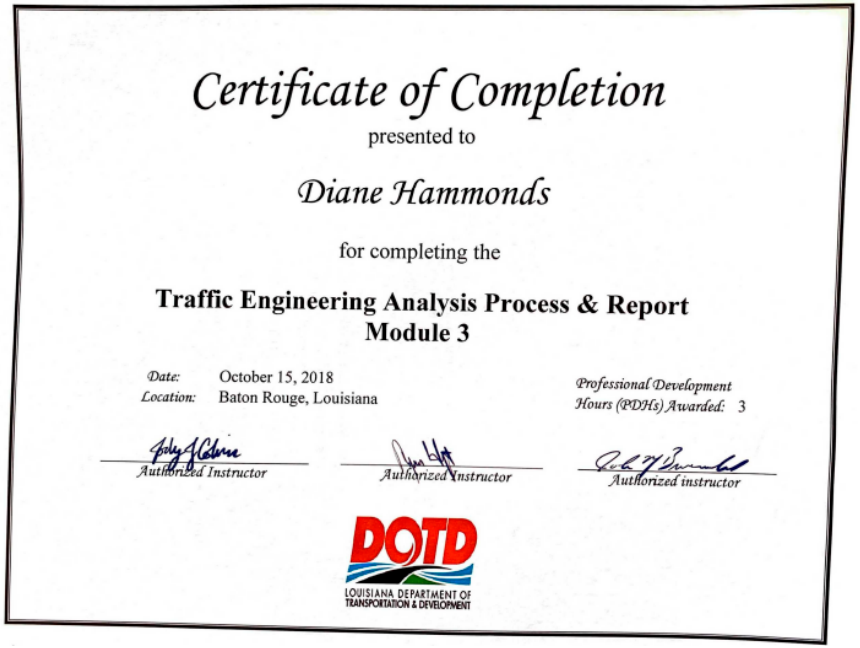
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Kimberly Dawn McDaniel

License/Certificate Type - Number	Expiration Date
PE.0032973	09/30/2023

Status: Active

Transportation Professional Certification Board, Inc.

certifies that

Kimberly McDaniel

has met all of the requirements established by the Certification Board to use the title of

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 802 issued in Washington, DC, USA

3/17/2022

Deborah Snyder
Chair

PTP PROFESSIONAL TRANSPORTATION PLANNER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board Inc.

certifies that

Kimberly D. McDaniel

has met all of the requirements established by the Certification Board to use the title of

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 2072 issued in Washington, D.C., U.S.A.

October 2, 2007

Steven D. Hofener
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Kimberly McDaniel

has attended

Traffic Control Supervisor-LA State Specific

Training Course

1/13/16 to 1/14/16
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Gresham Smith

The American Traffic Safety Services Association

Hereby recognizes that

Kimberly McDaniel

has attended

Traffic Control Technician-LA State Specific

Training Course

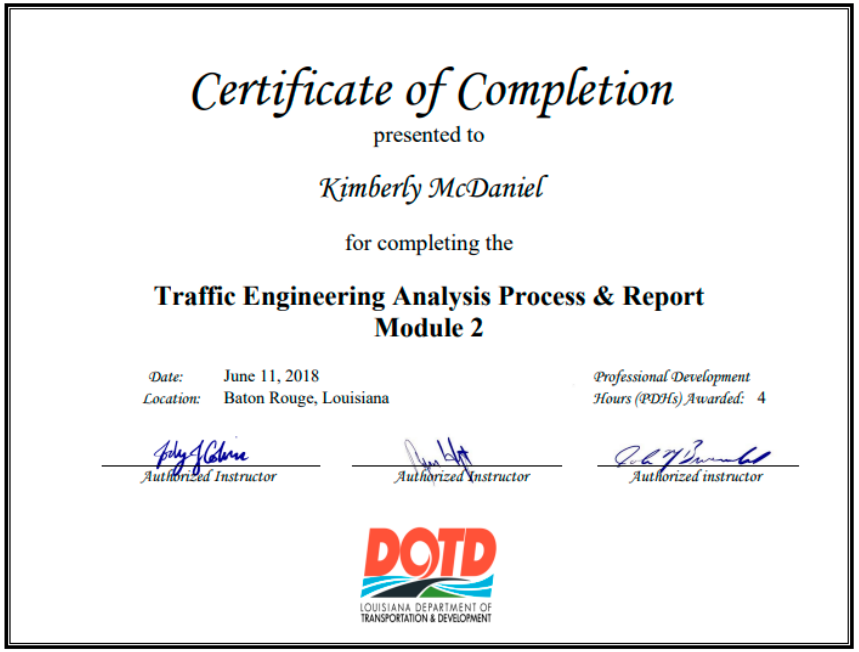
1/12/16 to 1/12/16
Date

Baton Rouge, LA
Location

Training & Products Dept. Director

President, CEO

ATSSA
SAFER ROADS SAVE LIVES



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

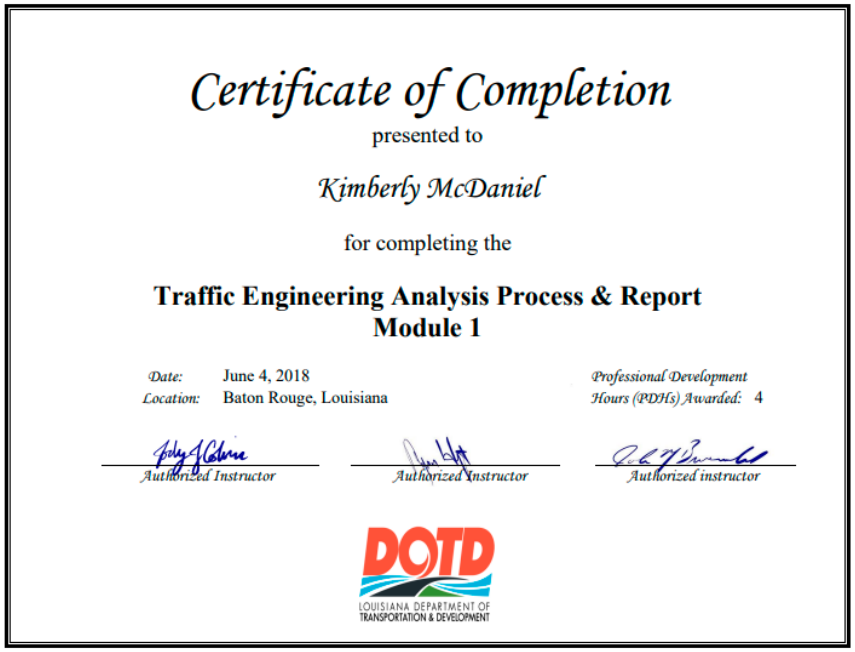
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

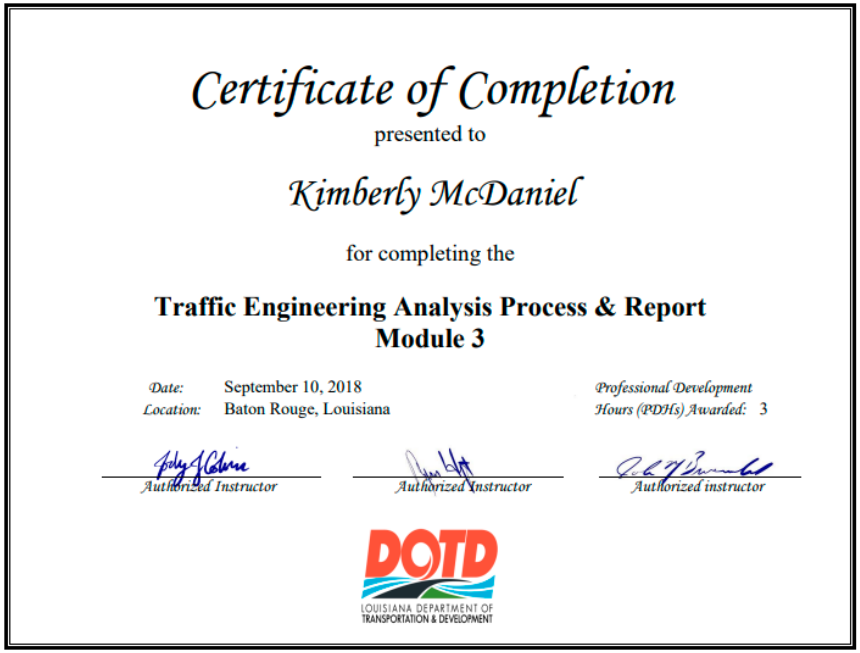
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 3

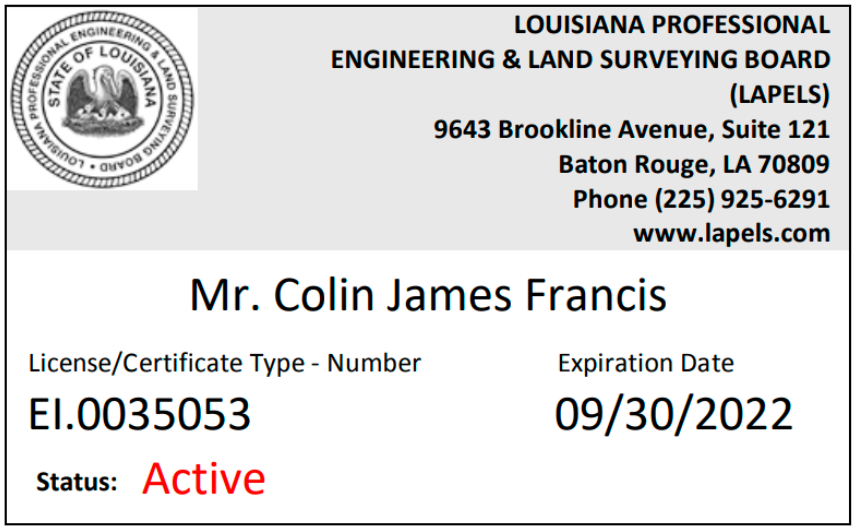
Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith



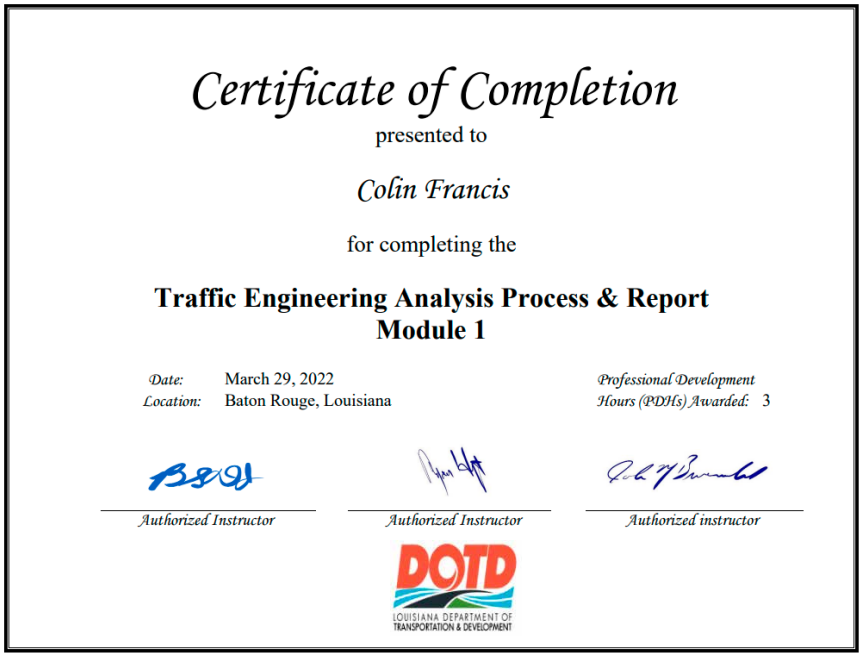
LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Colin James Francis

License/Certificate Type - Number
EI.0035053

Expiration Date
09/30/2022

Status: Active



Certificate of Completion

presented to

Colin Francis

for completing the

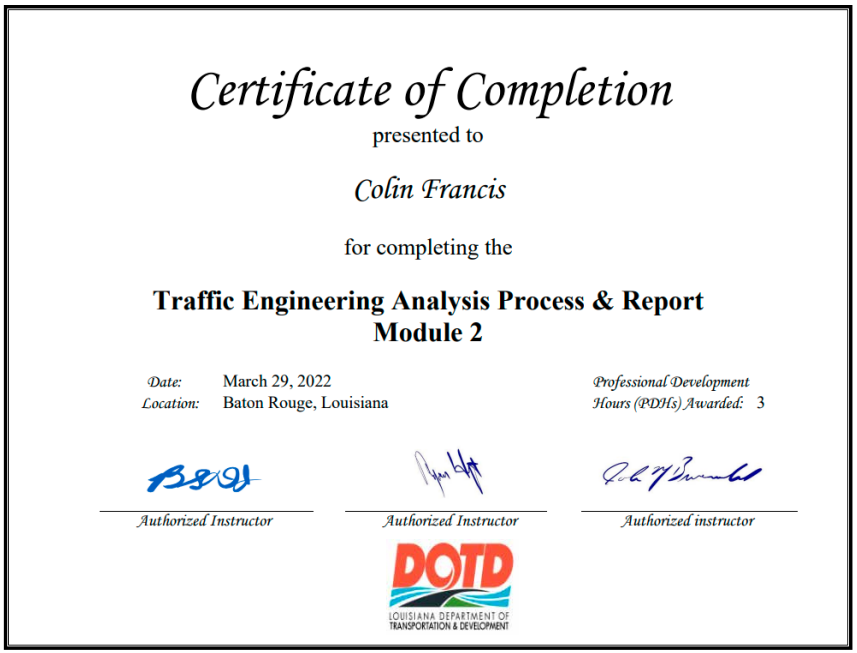
Traffic Engineering Analysis Process & Report
Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Colin Francis

for completing the

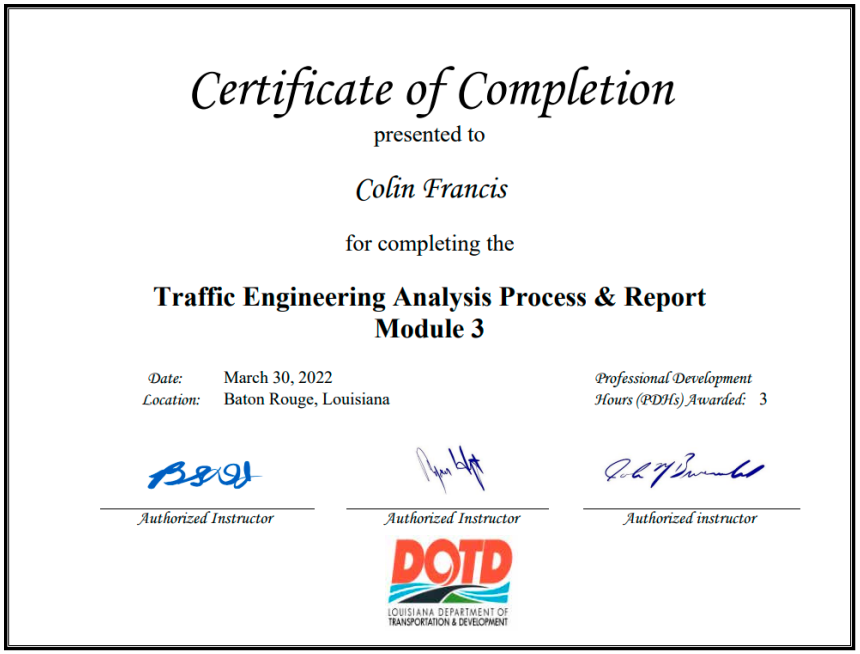
Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Gresham Smith

Certificate of Completion

presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

RTA DOTD

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Grey Engineering, LLC

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

NC541330, NC541611

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

Certificate Eligibility: June 2022 to June 2023

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Gresham Smith

21. QA/QC Plan and/or Work Plan:

Our team will provide a thorough QC Plan upon contract award.

22. Sub-consultant Information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Intelligent Transportation Systems, LLC	20405 Highland Road Baton Rouge, LA 70817	Kimberly D. McDaniel, P.E., PTOE, PTP kimberly@itsanswers.com	225.751.9300
Quality Counts, LLC	4385 Jeffrey Dr, Suite A2 Baton Rouge, LA 70816	Amanda Lenz alenz@qualitycounts.net	512.656.8270
Grey Engineering, LLC	7146 Landmor Drive Greenwell Springs, LA 70739	April Renard, PE, PTOE, RSP21 april@greyeng.com	225.773.6272

(Add rows as needed)

23. Location:

N/A

Gresham Smith

Genuine Ingenuity

Alpharetta, GA
Atlanta, GA
Baton Rouge, LA
Birmingham, AL
Charlotte, NC
Chattanooga, TN
Chicago, IL
Cincinnati, OH
Columbus, OH
Dallas, TX
Ft. Lauderdale, FL
Jackson, MS
Jacksonville, FL
Knoxville, TN
Lexington, KY
Louisville, KY
Memphis, TN
Miami, FL
Nashville, TN
Orlando, FL
Richmond, VA
Suwanee, GA
Tallahassee, FL
Tampa, FL

10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

225.757.5849
GreshamSmith.com