Gresham Smith

LADOTD

IDIQ Contract for Transportation Systems Management and Operations (TSMO) Program | Contract No. 4400025921
Statewide, LA | April 11, 2023

Genuine Ingenuity

10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

225.757.5849
GreshamSmith.com

April 11, 2023

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

Re: Advertisement for Engineering and Related Services
Contract No. 4400025921
IDIQ Contract for Transportation Systems Management and Operations (TSMO) Program

Dear Mr. Gorbaty:

Gresham Smith has been honored to partner with LADOTD and local public agencies delivering projects that improve our communities. From our Baton Rouge office, and also at the corporate level, we recognize our responsibility to support LADOTD execute its mission in the most effective manner possible. Our key local staff all have experience successfully completing safety, traffic, ITS, complete street, road and bridge projects for LADOTD and we look forward to the opportunity to partner with LADOTD to provide TSMO services under this IDIQ contract.

For the past 55 years, Gresham Smith has served our clients as a trusted advisor to help them deliver their programs. Our local office is supported by subject matter experts in our other 25 offices throughout the southeastern US. We deliver 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 key staff proposed for this program have been honored to build their careers with LADOTD, where they have gained experience with LADOTD's organizational structure, staff, and policy while instilling the mindset that puts the needs of the communities and safety of the traveling public first. The following key staff members will be your partners on this program to institutionalize TSMO as a means to create new coordinated and collaborative solutions for a safe and reliable transportation system.

- Herbert "Bert" Moore II, P.E., PLS, PTOE, Project Principal, Policy Task lead, as well as Gresham Smith's Louisiana Transportation Leader, is experienced with ITS, traffic engineering, traffic signal design, operations, and safety projects 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 LADOTD requirements and preferences, which will be essential for gaining buy-in on TSMO policies with project stakeholders. As the Project Principal, Bert will ensure the team has the expertise and resources necessary for LADOTD's successful implementation of this program.

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Smith

- Christina Florez, P.E., Project Manager, has 21 years of TSMO and ITS project experience and is also intimately familiar with managing LADOTD IDIQ projects and supporting LADOTD staff, giving you the peace of mind that each assigment is completed on-time and under budget. As the Project Manager, she will oversee day-to-day project tasks and subconsultant coordination, ensuring that the team remains focused on project milestones that will enable TSMO strategies and solutions.
- Matt D'Angelo, P.E., QA/QC Lead, CAV Task Lead, is Gresham Smith's national TSMO leader. Matt will apply our quality process and procedures to all project deliverables while also offering creative and proven approaches from his diverse TSMO and CAV experience supporting 16 states and FHWA.
- Our team will be supported WSP's TSMO veterans who have implemented successful and sustainable TSMO programs for six other states. Les Jacobson wrote the book for FHWA on how to apply the Capability Maturity Model and will lead this task for our team. Reno Giordano will lead the Strategic Plan Development task giving LADOTD a clear path of how to implement a sustainable TSMO program.
- Meredith Cebelak, PhD, P.E., Funding/Benefit-Cost Task Lead, TSMO Strategy/Solutions Task Lead, knows how to make the business case for TSMO strategies by quantifying return on investment. She also has extensive experience developing project scopes and delivering TSMO designs and plans. She will be supported by our local DBE partner Vectura Consulting Services with incorporating traffic engineering strategies within TSMO solutions.
- Randy Battey, P.E., Grant Task Lead, has a consistent track record of writing successful grant applications resulting in over $270M in additional federal funding for southeast clients. Working together with WSP's grant team, they will proactively identify and secure grant funding to help accelerate LADOTD's TSMO Program.

Our team will be supported by Anastasia Brenan Communications Group to deliver high impact print, video and social media tools to promote and educate stakeholders on the value of TSMO. Together with Vectura, our project plan has a realistic approach to meeting the project's 6% DBE goal.

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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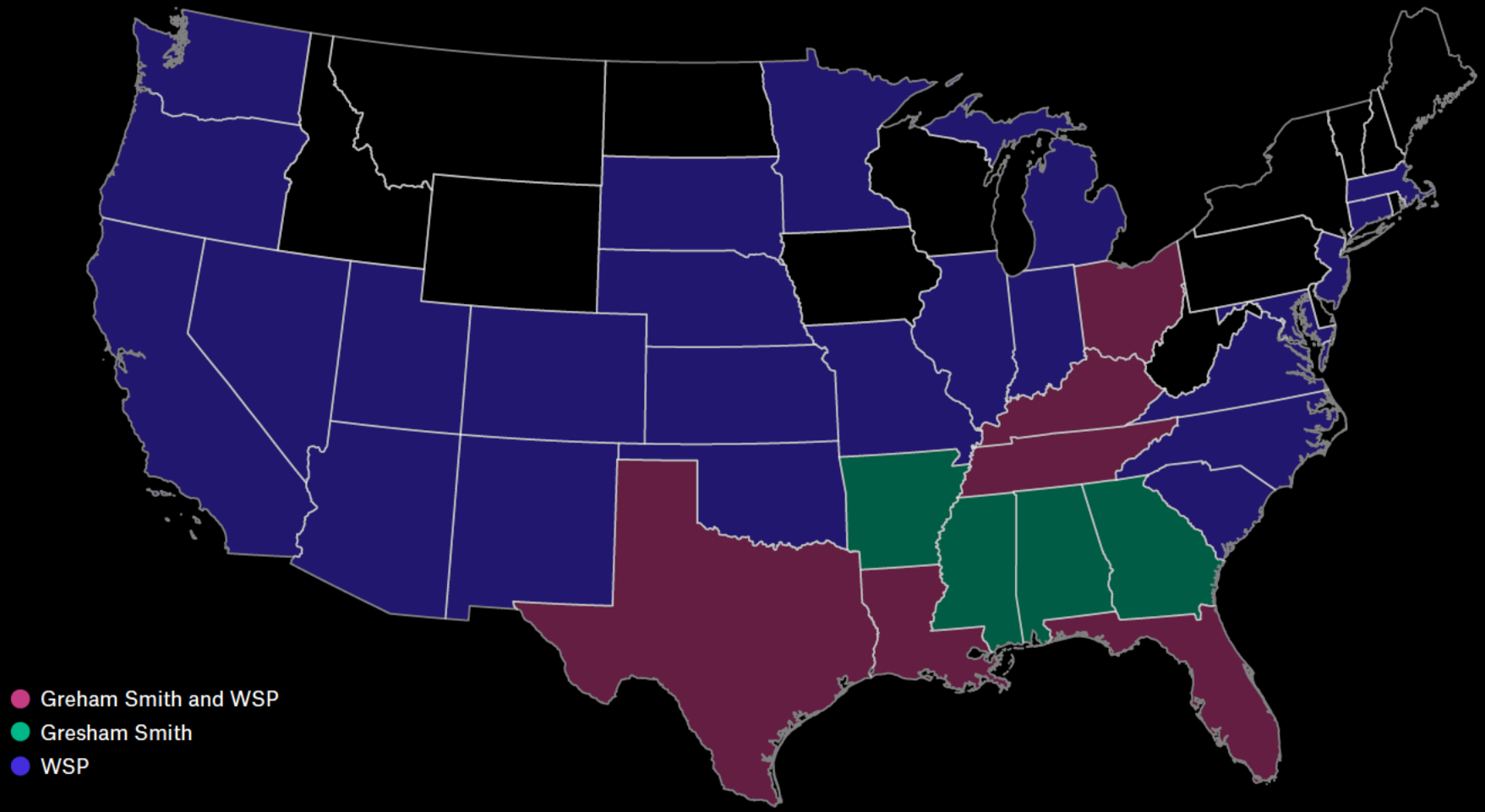
Team Experience - TSMO



24-102

Sections 1-15

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract title as shown in the advertisement	IDIQ Contract for Transportation Systems Management and Operations (TSMO) Program
2. Contract number(s) as shown in the advertisement	4400025921
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match 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	Christina Florez, P.E. Senior Transportation Engineer 225.757.5849 / christina.florez@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: April 11, 2023
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): — Firm(s)' %: Vectura — 3% Anastasia Brenan Communications Group — 3% Total DBE Utilization: — 6%

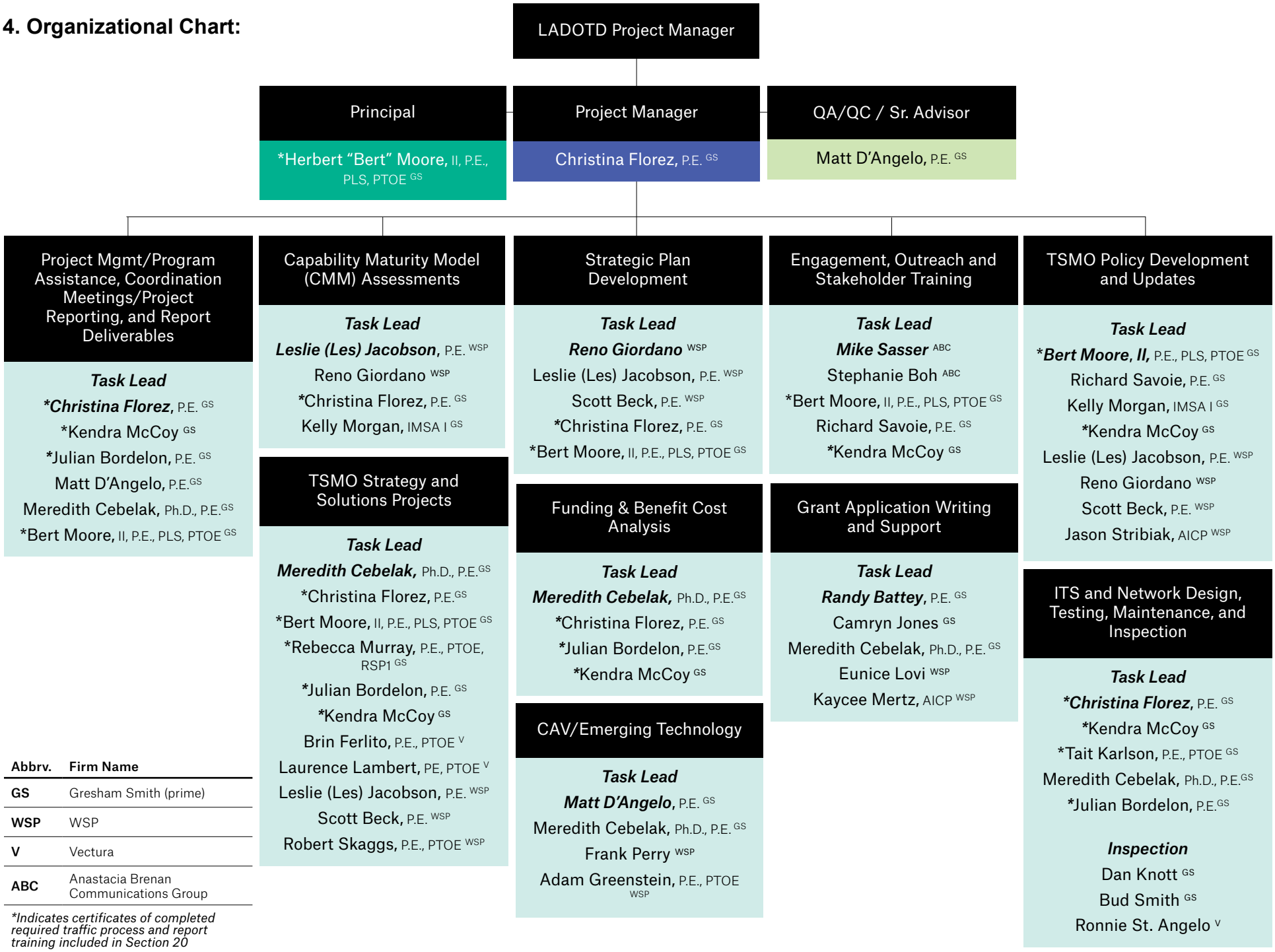
12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Categories	% of Overall Contract	Gresham Smith (Prime)	WSP (Sub)	Vectura (DBE) (Sub)	ABC (DBE) (Sub)	Each Discipline must total to 100%
ITS	70%	45%	55%	0%	0%	100%
Traffic	5%	40%	0%	60%	0%	100%
Other (Program Assistance, Strategic Planning, Grant Writing, Engagement and Outreach)	25%	76%	12%	0%	12%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	**100%**	**53%**	**41%**	**3%**	**3%**	**100%**

13. Firm Size:

Firm Name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Gresham Smith	Principal	1	1
Gresham Smith	Supervisor-Engineer	5	6
Gresham Smith	Supervisor-Other	1	1
Gresham Smith	Engineer	2	2
Gresham Smith	Engineer-Other	1	11
Gresham Smith	Engineer Intern	2	7
Gresham Smith	Senior Technician	1	1
Gresham Smith	Inspector-Lead	1	1
Gresham Smith	ITS Technician-Lead	1	4
Gresham Smith	Professional	3	5
Gresham Smith	Clerical	1	1
WSP USA Inc. (WSP)*	Accountant	1	5
WSP USA Inc. (WSP)*	Administrative	1	5
WSP USA Inc. (WSP)*	Engineer	1	3
WSP USA Inc. (WSP)*	Engineer - Other	4	10
WSP USA Inc. (WSP)*	Engineer Intern	2	2
WSP USA Inc. (WSP)*	ITS Technician – Lead	2	5
WSP USA Inc. (WSP)*	Planner	2	5
WSP USA Inc. (WSP)*	Professional	4	10
WSP USA Inc. (WSP)*	Supervisor – Engineer	1	3
Vectura Consulting Services, LLC	Supervisor	2	2
Vectura Consulting Services, LLC	Engineer	2	4
Vectura Consulting Services, LLC	Technician	1	3
Anastasia Brenan Communications Group	Other (Communications/Public Relations Specialists)	2	11

14. Organizational Chart:



Abbrv.	Firm Name
GS	Gresham Smith (prime)
WSP	WSP
V	Vectura
ABC	Anastacia Brenan Communications Group

**Indicates certificates of completed required traffic process and report training included in Section 20*

15. Minimum Personnel Requirements:

MPR No. (Do not insert wording from ad)	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR / certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. LA 31065 - (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS LA 5043	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE 2728	International	PTOE 2728 Exp. 9/30/2024
2.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. LA 31065 - (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS LA 5043	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE 2728	International	PTOE 2728 Exp. 9/30/2024
3.	Herbert "Bert" Moore, II, P.E., PLS, PTOE	Gresham Smith	P.E. LA 31065 - (Civil)	Louisiana	P.E., LA 31065 Exp. 9/30/2024
			PLS LA 5043	Louisiana	PLS LA 5043 Exp. 9/30/2024
			PTOE 2728	International	PTOE 2728 Exp. 9/30/2024
4.	Rebecca Murray, P.E., PTOE, RSP1	Gresham Smith	P.E. LA 43788 - (Civil)	Louisiana	P.E., LA 43788 Exp. 3/31/2024
			PTOE 4861	International	PTOE 4861 Exp. 3/26/2023
			RSP1 611	International	RSP1 611 Exp. 4/5/2024
5.	Richard Savoie, P.E.	Gresham Smith	P.E. LA 20936 - (Civil)	Louisiana	P.E., LA 20936 Exp 9/30/2024
	Tait Karlson, P.E., PTOE	Gresham Smith	P.E. LA 40438 - (Civil)	Louisiana	P.E., LA 40438 Exp. 9/30/2024
			PTOE 3091	International	PTOE 3091 Exp. 7/20/2023
	Meredith Cebelak, Ph.D., P.E.	Gresham Smith	P.E. LA 41963 - (Civil)	Louisiana	P.E., LA 41963 Exp. 3/31/24
6.	Julian Bordelon, P.E.	Gresham Smith	P.E. LA 47473 - (Electrical)	Louisiana	P.E., LA 47473 Exp 9/30/2023
7.	Christina Florez, P.E.	Gresham Smith	P.E. LA 38799 - (Electrical)	Louisiana	P.E., LA 38799 Exp. 9/30/2024
	Matt D'Angelo, P.E.	Gresham Smith	P.E. FL 115232 - (Civil)	Florida	P.E., FL 115232 Exp. 2/28/2025
	Kendra McCoy	Gresham Smith	N/A	N/A	N/A

8.	Christina Florez, P.E.	Gresham Smith	P.E. LA 38799 - (Electrical)	Louisiana	P.E., LA 38799 Exp. 9/30/2024
	Matt D'Angelo	Gresham Smith	P.E. FL 115232 - (Civil)	Florida	P.E., FL 115232 Exp. 2/28/2025
	Kendra McCoy	Gresham Smith	N/A	N/A	N/A
9.	Bud Smith	Gresham Smith	N/A	N/A	N/A
	Daniel Knott	Gresham Smith	N/A	N/A	N/A
	Ronnie St. Angelo	Vectura	N/A	N/A	N/A

24-102

Section 16

16. Staff Experience:

Gresham Smith

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

Principal, Policy Task Lead

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

Degree(s) / Years / Specialization	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	Principal / Bert will provide overall contract management and direction for our team, lead the Policy Task, and support strategic plan development, TSMO strategy/project solutions, stakeholder engagement, outreach, and training..		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	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 LADOTD requirements and preferences, and proven adept at getting things done efficiently. Bert has spent the majority of his 24-year career working with the traffic signal system and ITS equipment in the Baton Rouge area, having performed design, operations, CE&I and maintenance duties on these systems
02/18 – 09/21	**LADOTD, ITS CEI Retainer, Signal Communications Upgrade Phase 1, CEI, Various, LA | *Principal.*** Gresham Smith is providing the project engineering and administration, as well as field inspection services. The contractor is installing underground conduit, pull boxes, fiber optic cables, replacing signal cabinets, upgrading signal controllers and installing CCTV cameras. CEI tasks include on-site daily/nightly construction inspection, daily/weekly/monthly construction inspection reporting, construction management, pre-construction meeting, construction progress meetings, submittal coordination and tracking, sampling plan review, sampling coordination and documentation, verifying compliance documentation, claims processing and tracking, construction schedule review and tracking, SWPPP coordination, certified payroll review and exception resolution, monthly partial estimate reviews, change order processing, site manager updates, field diaries, commission test findings report, witnessing fiber optic cable testing, commission testing and system integration testing, and final project file documents. Bert's responsibilities included overall project coordination and team management.
01/19 – Ongoing	**LADOTD, ITS CEI Retainer, Lake Charles Phase 3 ITS, CEI, Lake Charles, LA | *Principal.*** 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. Bert is responsible for oversight of the entire project.
04/19 – 05/20	**LADOTD, ITS CE&I IDIQ, Task Order #2: Fiber Optic Mapping & Management, Ascension, East Baton Rouge, West Baton Rouge, Livingston and Terrebonne Parishes, LA | *Principal.*** Gresham Smith was tasked with expanding the Fiber Optic Mapping & Management system to various parishes. Bert was responsible for overall project coordination and team management.

06/16 – 09/17	**LADOTD, ITS Design & Integration WO#3: ATMS.Now Design and Integration, Statewide, LA	*Principal.*** Gresham Smith implemented a central traffic signal software system that would increase the Department's functionality with traffic signals, improve communications to field devices and allow the back-up of signal controller configurations at a central location. Bert's responsibilities included project management, QA/QC, workshop facilitation, functional requirement development, meeting with vendors and stakeholders, assisting and documenting the training performed by vendor and assisting with the system verification.
08/15 – 11/18	**LADOTD, ITS Design & Implementation WO#4: I-10 Twin Span ITS-Orleans & St. Tammany Parishes, Statewide, LA	*Principal.*** 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. Bert was responsible for the overall project management, QA/QC, traffic control plans, transportation management plan (TMP), constructability / biddability forms and cost estimates.
10/18 – Ongoing	**LADOTD, LCG Adaptive Traffic Signal System, Lafayette, LA	*Principal.*** Gresham Smith developed an Adaptive Traffic Signal System for the Lafayette Consolidated Government, which involved upgrading over 200 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be both the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of over 200 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel time studies. Bert is responsible for overseeing the, design of traffic signals, integration and QA/QC.
04/17 – 08/17	**LADOTD, ITS Design & Implementation WO#8: Emergency Vehicle Preemption (EVP) Devices SEA, East Baton Rouge Parish, LA	*Principal.*** The City of Baton Rouge incorporated the upgrade of their existing Emergency Vehicle Preemption (EVP) system within an existing safety project. The existing EVP system was outdated, utilized line of sight equipment and not installed on all intersections within the city's jurisdiction. Gresham Smith was selected to develop a SEA to upgrade EVP equipment throughout the parish. Bert's responsibilities included workshop facilitation, stakeholder coordination, and QA/QC.
07/16 – 07/18	**LADOTD, ITS Design & Integration WO#5: I-12 Ramp Meter Upgrades, East Baton Rouge and Livingston Parishes, LA	*Principal.*** Gresham Smith was tasked with performing a feasibility assessment on the existing ramp meters along I-12. The assessment included reviewing the existing system components, determining status of functionality, performing best practices research, and developing recommendations and typical layouts. Bert's responsibilities included leading the field inspections, meeting with vendors and stakeholders, project management, QA/QC, and development of recommendations.
Certifications (See section 20)	• DOTD Traffic Engineering Analysis 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

Christina Florez, P.E.

Project Manager / ITS and Network Design, Testing, Maintenance, and Inspection Task Lead

Years of experience with this employer	6
Years of experience with other employer(s)	15

Degree(s) / Years / Specialization	Bachelor of Science / 2001 / Electrical Engineering, Florida International University		
Active registration number / state / expiration date	PE.0038799 / LA / Exp. 9/30/24 | PE 65603 / FL / Exp. 2/28/25		
Year registered	2014 (LA), 2007 (FL)	**Discipline**	P.E./Electrical and Computer
Contract role(s) / brief description of responsibilities	Project Manager / Christina will provide leadership and oversight of all aspects of this project. She will serve as task lead for ITS and Network design, testing, maintenance, and inspection assignments.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	Christina has been a senior project manager/electrical engineer on complex ITS projects over the past 21 years. Her experience includes: ITS engineer of record on design-bid-build and design-build projects for multiple DOT clients, integrated corridor management (ICM) planning studies, ITS design and construction support, field inspection and testing, variable-speed-limit (VSL) system design, transportation systems management and operations, systems engineering analyses, incident management system (IMS), and reversible-lane plan development. Her ITS design projects included CCTV, DMS, radar detection, active traffic management, travel time systems, express lanes, communications, and electrical subsystems. Christina has been the Project Manager on various IDIQ and Task Order based contracts in Louisiana and Florida.
03/20 – Ongoing	**TDOT, Traffic Studies, I-24 MOTION Test Bed, Davidson and Rutherford Counties, TN | *Lead Technical Advisor.*** TDOT established a test bed to better understand how vehicle automation and active traffic management impacts real world driving scenarios. Christina designed the communication and power infrastructure for the network. She also helped develop the systems engineering analysis, secured grant funding, designed, and supported the construction of the Test Bed which consisted of 276 cameras that generated 50TB+ of data daily.
09/15 – 09/16	**Broward County MPO, Integrated Corridor Management (ICM) Planning Study, Broward County, FL | *Project Manager/Senior ITS Engineer.*** Responsible for the development of project documents, including concept of operations, high level system requirements and implementation plan; coordination with various stakeholders and facilitation of multiple workshops. The project consisted of developing a ConOps, a high-level ICM requirements report, and an implementation plan for designing, constructing, integrating, operating, and maintaining the ICM system components with the sole purpose of improving the efficiency of the multimodal transportation system along the I-95 corridor.
10/21 – Ongoing	**ALDOT, Statewide Regional Traffic Operations Program (RTOP) Program, Statewide, AL | *Project Manager.*** ALDOT's RTOP will improve traffic flow, safety and travel time reliability through active arterial management strategies along multi-jurisdictional corridors. Gresham Smith is leading a team of consultants and contractors to deliver proactive signal operations and maintenance. As Project Manager, Christina is responsible for leading a team of signal consultants and contractors tasked with elevating the performance of the Birmingham metro-area arterials through active management of signals, maintenance

	and repair of signal systems and related ITS assets including communications, support for special events and emergencies, data collection and reporting, as well as coordination with ALDOT and local agencies.
12/15 – 03/17	**MetroPlan Orlando - 2016 - 03 ITS Master Plan, Orlando, FL | *Project Manager, Senior Engineer*.** Responsible for the development of the ITS Master Plan that included determination of the ITS Vision, Goals and Objections, review and documenting the existing conditions, infrastructure and inventory, identifying ITS needs, identifying applicable ITS strategies, review of the regional ITS architecture, development of the Concept of Operations, and prioritization of the ITS Master Plan. Christina's responsibilities included project management, ITS technical support, development of ITS needs, and applicable ITS strategies, and development of concept of operations.
01/19 – Ongoing	**City of Knoxville, Advanced Traffic Management System, Middlebrook Pike, Knoxville, TN | *ITS Engineer*.** This project expands the City's Advanced Traffic Management System (ATMS) along Middlebrook Pike (SR 169)/University from the eastern most intersection of University and College across Western (SR 62) to Joe Hinton on the western end of Middlebrook Pike. The project improves traffic operations at 24 signalized intersections along the corridor by upgrading the existing controllers and connecting them via fiber optic cables to the City's TMC. Additionally, the project provides enhanced vehicle and pedestrian detection, addresses ADA and PROWAG pedestrian improvements that are needed, and installs Connected Vehicle (CV) infrastructure to support Signal Phase and Timing (SPaT) message broadcasting.
10/10 – 08/17	**FDOT D6, ITS Support, Miami, FL | *Project Manager*.** Christina was responsible for coordination, management, and technical support of all engineering services for the on-call contract. The contract included multiple task orders to support FDOT's ITS program, including providing ITS reviews for the SR 826/I-75 Express Lanes, I-75 Segment AB Express Lanes, and I-75 Systems Integrator projects; supporting FDOT's oversight and review of the ITS component plans and specifications of the Port of Miami Tunnel project; updating server room as-builts; and providing support for contract negotiations on various projects, including Okeechobee Road design and Palmetto Express design projects.
01/19 – Ongoing	**LADOTD, ITS CEI Retainer, Lake Charles Phase 3 ITS, CEI, Lake Charles, LA | *Project Manager.*** 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. Christina is responsible for oversight of the entire project.
06/17 – 03/18	**LADOTD, ITS Design and Implementation, ITS Strategic Business Plan Update, Statewide, LA | *Project Manager*.** Gresham Smith was tasked with updating the ITS Strategic Business Plan which included conducting visioning meeting, documenting existing conditions, performing benefit-cost analysis of the program, providing implementation strategies and recommending priorities. Christina was responsible for project management, document development, including benefit/cost analysis and deployment plan, and QA/QC.
02/17 – 10/17	**LADOTD, ITS Design & Implementation WO#7: Signal Communications Upgrade Phase 1 – Systems Engineering Assessment (SEA), Various Locations, LA | *Project Manager.*** The project consists of modifications and upgrades of the existing infrastructure to provide connectivity to various signals. Christina was responsible for project management, ITS technical support, document development, including Concept of Operations and review, ITS regional architecture review and QA/QC.
09/16 – 09/17	**LADOTD, ITS Design, Integration and System Verification Services, WO#3: ATMS.Now Design and Integration, Statewide, LA | *Senior ITS Engineer.*** 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. Christina's responsibilities included ITS technical support, training oversight and document review.
Certifications (See section 20)	• DOTD Traffic Engineering Analysis Process & Report – Modules 1, 2 and 3 • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

16. Staff Experience:

Gresham Smith

Kendra McCoy

Senior TSMO Specialist

Years of experience with this employer	10
Years of experience with other employer(s)	24

Degree(s) / Years / Specialization	Bachelor of Science / 2012 / Technical 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	Senior TSMO Specialist / Kendra will support project reporting, stakeholder engagement, outreach and training, TSMO policy development, TSMO strategy and solutions, funding & benefit-cost analysis and ITS design.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/17 – 03/18	**LADOTD, ITS Design and Implementation, ITS Strategic Business Plan Update, Statewide, LA	*ITS Systems Specialist.*** Gresham Smith was tasked with updating the ITS Strategic Business Plan which included conducting visioning meeting, documenting existing conditions, performing benefit-cost analysis of the program, providing implementation strategies and recommending priorities. Kendra was responsible for document development, including benefit/cost analysis and deployment plan.
10/14 – 12/20	**ALDOT, TMC Operations - RTMC, Montgomery, Birmingham, Tuscaloosa, Huntsville, AL	*ITS Systems Specialist.*** Gresham Smith assisted ALDOT with developing a high-level, concept document and Standard Operating Procedures and Policies annotated outline that was used to develop the detailed TMC SOPs. Other tasks include reviewing the concept developed in the Statewide Architecture and further refine this to be specific to the TMC Operations. Kendra was responsible for the update of the RTMC Operations Manual and Performance Measure Reporting to include Event and Device Management.
01/17 – 08/17	**ALDOT, Development and Implementation of a Training Course for Mobile RTMC Operators	Statewide, AL,	*ITS Systems Specialist.*** Kendra assisted the Gresham Smith team that developed and implemented a Training Course for Mobile RTMC Operators. The team observed operations at the ALDOT's and conducted a Needs and Skills Analysis. Gresham Smith conducted a High-Level Assessment of RTMC Operator Knowledge, Skills and Abilities (KSAs). Based on assessment, observation, Operator interviews and questionnaire responses, the team developed the training curriculum, and associated presentations, manuals, training assessments and testing tools.
06/16 – 9/17	**LADOTD, ITS Retainer, WO#3 ATMS.NOW, Design and integration Support, East Baton Rouge, LA	*Project Manager.*** Gresham Smith was selected to assist LADOTD with the selection and implementation of a central traffic signal software system that would increase the department's functionality with traffic signals, improve communications to field devices and allow the signal controllers to be back-upped at a central location. Kendra's responsibilities included project management, QA/QC, workshop facilitation, functional requirement development, meeting with vendors and stakeholders, assisting and documenting the training performed by vendor and assisting with the system verification.

05/17 – 08/17	**LADOTD, ITS Design & Implementation WO#8: Emergency Vehicle Preemption (EVP) Devices SEA, East Baton Rouge Parish, LA | *ITS Systems Specialis*t.** The City of Baton Rouge incorporated the upgrade of their existing Emergency Vehicle Preemption (EVP) system within an existing safety project. The existing EVP system was outdated, utilized line of sight equipment and not installed on all intersections within the city's jurisdiction. Kendra was responsible for ITS technical support, data collection and document development.
07/16 – 07/18	**LADOTD, ITS Design & Implementation WO#5: I-12 Ramp Meter Upgrades, East Baton Rouge and Livingston Parishes, LA | *ITS Systems Specialis*t.** Gresham Smith was tasked with performing a feasibility assessment on the existing ramp meters along I-12. The assessment included reviewing the existing system components, determining status of functionality, performing best practices research, and developing recommendations and typical layouts. Kendra was responsible for ITS technical support and document development.
02/17 – 10/17	**LADOTD, ITS Design & Implementation WO#7: Signal Communications Upgrade Phase 1 – SEA, Various Locations, LA | *ITS Systems Specialist.*** 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. Kendra was responsible for ITS technical support, data collection and document development.
05/13 – 07/15	**LADOTD, Retainer Contract for ITS Statewide Systems Design, Integration and System Verification Services, Statewide, LA | *Project Manager.*** Under this ITS retainer contract, Gresham Smith provided systems engineering, integration and support services, system analysis, and independent verification and validation services. Kendra supported the following task orders; Program Assistance, Video Distribution Management System, Configuration Management, ITS 511 ATIS ConOps, Advanced Transportation Management and Toll Operations Business Plan.
01/17 – 08/17	**FDOT, District 4 - ITS / Traffic Operations Office, TransCore Fort Lauderdale, FL | *ITS Maintenance Project Manager*.** Responsible for reporting on the ITS Maintenance Contract including, but not limited to, Preventive and Emergency Maintenance, Utility Locate Coordination, Stakeholder Coordination, Reporting, Project Schedules and Reporting. Managed ITS Maintenance Staff to assure needs and priorities of the client and users of the ITS Maintenance System were met. Responsible for integrating and testing all communications and ITS devices into the Regional TMC, as well as, the SunGuide software. Assisted in the development of the Maintenance Inventory Management System (MIMS) to be used in the field by maintenance technicians on tablets for inventory and trouble ticket updates.
01/17 – Ongoing	**LADOTD, ITS Design & Implementation: Fiber Optic Mapping & Management, Statewide, LA | *ITS Systems Specialist.*** The project consisted of implementing the mapping of ITS field devices, fiber networks, and inventory and maintenance records. Kendra was responsible for coordinating data processing, developing procedures/templates, coordinating workload, drafting an evaluation report and performing QA/QC on the data entry.
04/20 – 06/20	**SR 386 Conceptual Study, Nashville, TN | *ITS Systems Specialist.*** Gresham Smith was tasked with evaluating the feasibility of expanding the ITS infrastructure and introducing transit managed lanes, including bus-on-shoulder along SR 386. Kendra assisted in the development of the independent construction estimate to implement managed lanes with bus-on-shoulder.
04/17 – 07/19	**FDOT D6, ITS Miscellaneous Services, Miami, FL | *ITS Systems Specialist.*** Under the ITS retainer contract Gresham Smith was tasked to provide additional oversight and project input to the SR 826/I-75 design-build project. As FDOT's representative, Kendra assisted in the review of CCTV video coverage.
Certifications (See section 20)	• DOTD Traffic Engineering Analysis Process & Report – Modules 1, 2 and 3 • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

16. Staff Experience:

Gresham Smith

Matt D'Angelo, P.E.

QA/QC and Senior Advisor / CAV Task Lead

Years of experience with this employer	4
Years of experience with other employer(s)	21

Degree(s) / Years / Specialization	Bachelor of Science / 1997 / Civil Engineering, University of Central Florida		
Active registration number / state / expiration date	P.E. 58586 / FL / Exp. 2/28/2025		
Year registered	2002 (FL)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Matt will be the task lead for CAV/Emerging Technology, serve as technical advisor and lead the QA/QC.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
10/16 – 06/19	**Federal Highway Administration, Support Services for the Office of Operations, Washington, DC | *Project Director.*** Project director and proactive operations contract lead for this indefinite delivery/indefinite quantity contract to support FHWA's Office of Operations in the areas of transportation management/operations and freight management/operations. Deliverables included guidance documents, studies, and training for state and local agencies. Task activities included marketing and outreach support for the national Automated Traffic Signal Performance Measures initiative, analyzing the impacts of twin 33-foottrailer combinations, and developing 12 transportation systems management and operations (TSMO) case studies focusing on the different elements of the capability maturity model.
03/20 – Ongoing	**TDOT, I-24 MOTION Test Bed, Davidson and Rutherford Counties, TN | *Technical Advisor.*** Matt serves as the lead programmatic advisor supporting TDOT with establishing a first of its kind test bed along I-24 to better understand how new vehicle automation and operational approaches impact real world driving scenarios. Gresham Smith developed the systems engineering analysis report, ITS Architecture, and design of the Test Bed. We are also providing guidance on test bed best practices, big data management, deployment strategy, public relations, and a business plan. Matt is supporting outreach and the operation of the testbed through experiments with industry, other agencies, and researchers.
10/21 – Ongoing	**GDOT, SigOps Traffic Signal Operations Program for the Western Region of Metro Atlanta, Atlanta, GA | *Project Manager*.** Gresham Smith is providing proactive and flexible support to a region with over 1,700 signals through a mix of remote and on-site signal engineers and technicians. In order to deliver this scale of support efficiently, we are leveraging GDOT's investment in their traffic signal timing toolbox of applications that utilizes automated traffic signal performance measures (ATSPMs), the SigOps Metrics analytics tool, RITIS flow data, signal asset management software, and the statewide traffic signal control software with communications in place to nearly every signal in the state.
10/21 – Ongoing	**ALDOT, Statewide Regional Traffic Operations Program (RTOP) Program, Statewide, AL | *Innovation Lead.*** ALDOT's RTOP will improve traffic flow, safety and travel time reliability through active arterial management strategies along multi-jurisdictional corridors. Gresham Smith is leading a team of consultants and contractors to deliver proactive signal operations and maintenance. As innovation lead, Matt advises ALDOT on ways to leverage third-party data to generate signal performance measures until intersections are equipped for Automated Traffic Signal Performance Measures (ATSPM).

02/20 - Ongoing	**KYTC, I-Move Design-Build, Jefferson and Oldham Counties, KY	*Technical Advisor, QA/QC***. The project includes the ITS design for CCTV cameras and DMS along I-265, I-71, and I-64 in Jefferson and Oldham Counties. Matt is performing the QA/QC on project deliverables and providing ITS technical assistance.
01/18 – Ongoing	**TDOT, I-40 Cumberland Plateau ITS Deployment, Region 2, TN	*QA/QC*.** Matt is responsible for providing technical guidance, design support, and conducting all QC reviews prior to plan submittals. Gresham Smith is currently new ITS coverage along I-40 from Cookeville east to SR 299 (Exit 338). The project includes 50 miles of ITS fiber and devices, which include new fiber optic backhaul, network hubs, radar detection sensors (RDS), dynamic message signs (DMS), road weather information sensors (RWIS), closed circuit television (CCTV) cameras, CB interrupters devices and highway advisory radio (HAR) stations. Once complete, the project will provide the Department with the ability to better manage congestion and incidents along rural sections of I-40 with challenging terrain in Putnam and Cumberland Counties.
12/19 – 12/22	**City of Franklin, SR 96 Traffic Signal Improvements, Franklin, TN	*CAV /ATSPM Lead*.** Matt served as project advisor for this CMAQ-funded signal system project that will improve traffic operations at 13 signalized intersections along SR 96 as well as establish ATSPM capabilities. Design elements include enhanced vehicle detection, signals with Flashing Yellow Arrows (FYAs), upgrade of existing signal controllers to Advanced Traffic Controllers (ATCs), CV infrastructure to support SPaT message broadcasting, and ADA/PROWAG pedestrian improvements.
10/16 – 06/19	**GDOT, Signal Phasing and Timing (SPaT) Challenge, Atlanta, GA	*Project Director, Technical Advisor*.** Project director and technical advisor, providing strategic guidance on project deployment activities. This project included deploying dedicated short-range communications (DSRC) roadside units at approximately 600 signalized intersections and 12 ramp meter locations in metro Atlanta, broadcasting both signal phasing and timing (SPaT) information as well as map data (MAP) messages and all systems engineering, equipment procurement/installation, testing, and applications. Matt also supported GDOT with the successful award of a $2.5M grant from the FHWA Advanced Transportation and Congestion Management Technologies Deployment Initiative (ATCMTD) to expand the deployment.
04/11-09/15	**Utah DOT, Intelligent Transportation Systems Program Consultant, Statewide, UT	*Project Manager.*** Matt advised UDOT and project stakeholders on early deployment strategies to leverage connected vehicles to address both urban and rural problems. Urban applications included transit signal priority to improve reliability and transit/light vehicle interactions, special event information, and improving dilemma zone decision making for heavy vehicles. Rural applications included commercial vehicle platooning and parking applications to improve safety and efficiency, in addition to augmented weather data collected by private fleets to close gaps in local weather reporting and to enhance maintenance operations.
10/08 – 2/16	**FDOT, ITS General Consultant, Statewide, FL	*Project Principal, QA & Strategic Advisor*.** Supported ITS Strategic Plan updates and provided guidance on the future of traveler information and CV deployment opportunities. Supported all facets of ITS including program planning, ITS architecture, systems engineering, TMC software, independent technology testing, integration, operations, maintenance, performance measures, 511 traveler information, and emerging technologies. Also supported FDOT's Traffic Engineering Research Laboratory (TERL) with ITS and traffic control product testing as well as the development of statewide ITS specifications and installation plan details.
1/99 – 10/16	**Central Florida Expressway Authority Expressway Management System, Orlando, FL	*Program Manager*.** Matt was responsible for oversight of all aspects of their $40 million ITS program including planning, design, construction, maintenance, and operation of an expressway management system across 106 centerline miles of limited-access toll facilities. Matt guided a team of ITS professionals in an extension of staff role so the client was able to implement their ITS program with a single in-house staff position. This nationally recognized incident management system included an agency owned fiberoptic network, 144 CCTV cameras, 35 DMS, and 111 AVI sensors used to generate travel times. Matt provided project oversight and managed multiple design consultants through the design and post-design phases. He also provided technical, integration, and testing support to the Authority's construction engineering and inspection (CEI) project manager, resulting in expeditious resolution of contractor or vendor issues. Served as a strategic advisor on emerging technologies and operational strategies.

16. Staff Experience

Gresham Smith

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

Senior TSMO Engineer / Funding & Benefit-Cost Analysis Task Lead / TSMO Strategy & Solutions Task Lead

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. 2/28/25		
Year registered	2017 (LA) 2007 (FL)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Meredith will be the task lead for the Funding & Benefit Cost Analysis task as well as the TSMO Strategies and Solutions Projects task.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	Meredith brings over 21 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 ITS devices for traffic management and incident detection, 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, CAVs, and freight mobility.
03/20 – Ongoing	**TDOT, I-24 MOTION Test Bed, Davidson and Rutherford Counties, TN | *Project Manager, Engineer-of-Record.*** Meredith has overseen the establishment of the FHWA approved System Engineering Analysis Report for the project as well as updates to the TDOT ITS Architecture. She assisted TDOT with acquiring a CMAQ funding for the design and construction of the test bed. She designed the test bed facility covering 4 miles and consists of 40 camera poles that support a 294 4k resolution cameras. She facilitated the analysis of test beds best practices, the creation of the methodology and screening procedures for testing, the analysis of data modeling and management best practices and a business plan that addresses the operations and maintenance needs for the test bed as well as industry outreach.
01/20 – 11/22	**TDOT, SR 386 Conceptual Study, Smyrna, TN | *Freight and ITS Lead.*** Meredith analyzed the existing ITS infrastructure and TSM&O strategies deployed as well as identified future device deployment and TSM&O opportunities that would benefit all users of the corridor, including freight and transit. This analysis was used to prepare conceptual alternatives for widening and adding transit managed lanes along SR-386 from I-65 to US 31-E.
11/14 – 05/20	**Town of Smyrna, Signal Optimization | Smyrna, TN | *Senior ITS/Traffic Engineer.*** Gresham Smith provided signal timing and optimization for 27 signals within the town, and developed the ITS Master Plan for a multi-phase deployment of ITS devices. This included the upgrading of communication cabling and signal control equipment, as well as the installation of a central software system and CCTV cameras.

12/19 – 12/22	**City of Franklin, SR 96 Traffic Signal Improvements | Franklin, TN | *Project Manager.*** This CMAQ funded signal system project will improve traffic operations at 13 signalized intersections along SR 96 between Eddy Lane and Arno Road. Design elements include enhanced vehicle detection, signals with Flashing Yellow Arrows (FYAs), upgrade of existing signal controllers to Advanced Traffic Controllers (ATCs), Connected Vehicle infrastructure to support Signal Phase and Timing (SPaT) message broadcasting either via DSRC or C-V2X, and ADA and PROWAG pedestrian improvements. This project will also establish capability for Automated Traffic Signal Performance Measures.
10/19 – 12/20	**TDOT Traffic On-Call 2017-2020 – Noise Study | Statewide, TN | *Task Manager*.** Meredith is overseeing the effectiveness of the "No Compression Break" signing along I-75 near Exit 11 which is near the campus of Ooltewah Elementary School and neighborhood communities. The study gathered noise readings before and after the deployment of the signage and included a public survey to obtain resident feedback. A final report documenting the findings was created at the end of the study.
11/15 – 04/16	**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.
07/16 – 03/17	**LADOTD, ITS Design & Implementation, WO#5: I-12 Ramp Meter Upgrades, East Baton Rouge and Livingston Parishes, LA | *ITS 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.
01/18 – Ongoing	**TDOT, ITS Design Support Services WO#7: I-40 Nashville ITS Expansion, Nashville, TN | *Project Manager, Engineer of Record.*** Meredith is responsible for project management which includes the coordination of stakeholders from TDOT's ITS division, TDOT Region 3 TMC staff, TDOT's IT department, THP, and County officials. Meredith led the ITS device deployment workshop that provided a platform for the stakeholders to provide insight into the operational needs of the system. This information was then used as the basis for the design. She is the EOR for the design plans and specifications for the 38-mile project.
01/18 – Ongoing	**TDOT, ITS Design Support Services WO#8: Cumberland Plateau I-40 ITS Expansion, Cookeville, TN | *Project Manager, Engineer of Record.*** Meredith is responsible for the management of the project which includes coordination between stakeholders from TDOT's ITS division, TDOT Region 2 TMC personnel, TDOT's IT department, THP, Putnam County 911 personnel, and Cumberland and Putnam County officials. Meredith led the ITS device deployment workshop that provided a platform for the stakeholders to provide insight into the operational needs of the system. This information was then used as the basis for the design. She is EOR for the design plans and specifications for the 53-mile project.
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.
05/18 – Ongoing	**Town of Smyrna, Town of Smyrna ITS Phase 3, 4, & 5, Smyrna, TN | *Project Manager, Engineer of Record.*** Meredith is responsible for the overall management of the project. She was responsible for expanding the Town's ITS deployment. She developed the design plans and provided technical support for the Town's ITS Phases 3, 4, and 5. Meredith provided the Town with cost estimates for the Phase 3, 4, & 5 projects throughout its development. Finally, she assisted the Town with utility coordination and created the bid documents for the project that meet TDOT Local Program needs.
09/18 – Ongoing	**City of Lebanon, ITS Phase 1, Lebanon, TN | *Project Manager, Engineer of Record.*** Meredith is responsible for the overall management of the project. She was responsible for the development of the City's first ITS deployment. She developed the System Engineer Analysis report and will be developing the design plans and providing technical support for the deployment of the City's ITS. Meredith will provide the City with cost estimates for the project throughout its development. Finally, she will assist the Town with utility coordination and create the bid documents for the project that meet TDOT Local Program needs.

16. Staff Experience

Gresham Smith

Julian Bordelon, P.E.

TSMO Engineer

Years of experience with this employer	4
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	P.E. 0047473 / LA / Exp. 9/30/23		
Year registered	2023 (LA)	**Discipline**	P.E./Electrical
Contract role(s) / brief description of responsibilities	TSMO Engineer / Julian will be providing technical support.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
01/19 – Ongoing	**LADOTD, ITS CEI Retainer, Lake Charles Phase 3 ITS, CEI, Lake Charles, 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 is assisting in contract administration, inspection and testing oversight.
02/18 – 09/21	**LADOTD, ITS CEI Retainer, Signal Communications Upgrade Phase 1, CEI, Various, LA | *Pre-Professional.*** Gresham Smith provided 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.
04/19 – 05/20	**LADOTD, ITS CE&I IDIQ, Task Order #2: Fiber Optic Mapping & Management, Ascension, East Baton Rouge, West Baton Rouge, Livingston and Terrebonne Parishes, LA | *Pre-Professional.*** Gresham Smith was tasked with expanding the Fiber Optic Mapping & Management system to various parishes.
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.
12/18 – Ongoing	**LA OTS, LADOTD, Video Distribution Management System (VDMS), Baton Rouge, LA | *Pre-Professional.*** Julian is providing ITS systems software maintenance and software development support for the statewide VDMS system which includes Baton Rouge, Houma, New Orleans and Shreveport.

12/18 – 01/19	**LADOTD, ITS Design & Implementation WO #6: Fiber Optic Mapping & Management, Statewide, LA | *Pre-Professional.*** For the statewide implementation of the Fiber Optic Mapping and Management System (NexusWorx), Julian was responsible for data entry, document development and quality control. This phase of the project included Tangipahoa, St. Tammany, St. John, and Orleans parishes and the Shreveport and Houma regions.
12/18 – Ongoing	**LADOTD, LCG Adaptive Traffic Signal Design and Implementation, Lafayette Parish, LA | *Pre-Professional.*** Julian is 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.
02/20 – 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.
Certifications (See section 20)	• DOTD Traffic Engineering Analysis Process & Report – Modules 1, 2 and 3 • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

16. Staff Experience:

Gresham Smith

Tait Karlson, P.E., PTOE
Senior TSMO 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 3091 / Exp. 7/20/23		
Year registered	2016 (LA) 2011 (PTOE)	**Discipline**	P.E./Civil; PTOE
Contract role(s) / brief description of responsibilities	Senior TSMO Engineer / Tait will support the ITS systems, network design, testing maintenance and inspection task.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/20 – 11/22	**Town of Smyrna, Town of Smyrna ITS Phases 3-5, Smyrna, TN | *Transportation Engineer.*** Gresham Smith was selected to expand the Town's ITS system and integrate it into the previously designed Phase 1 and 2. This project included the design of fiber optic cable routing, signal control upgrades, and CCTV camera installations. Tait supported the design and project specifications.
06/20 – 03/21	**MDOT, 2018 TRD WA#2 Clinton Signal Corridor Retiming, Clinton, MS | *Project Manager.*** Tait managed and led the development, refinement, and implementation of coordinated Signal Timing Plans for 15 intersections along the existing corridors of US 80, Springridge Road, and Clinton-Raymond Road in Clinton, MS. He helped provide the results of the well-reviewed conditions in a Before/After report that included collecting travel time runs in the field. A capacity analysis was also performed to help determine the benefits of future upgrades to the system.
12/15 – 01/17	**ALDOT, West Central Region & North Region TSM&O, Statewide AL | *Engineer.*** Gresham Smith developed a TSM&O Master Plan for both regions. These plans layout an integrated program for ITS deployments, operations, and maintenance to improve mobility and safety of the existing state and federal highway system and supporting infrastructure. Tait helped gather and summarize information for the region's master plan including existing and planned systems and projects and future deployment recommendations.
07/15 – 05/18	**MDOT, SR 145 Tupelo Corridor Study & Signal/ITS Upgrades, Tupelo, MS | *Transportation Engineer*.** Gresham Smith conducted a feasibility study and developed conceptual design alternatives for proposed improvements to SR 145 through a heavily developed retail area of Tupelo between US 78 and US 45. A goal of this project was to reduce congestion through the area and improve flow to and from US 45. Tait was responsible for the design of the traffic signals, including incorporating ITS elements, and optimizing and coordinating the traffic signal timings. He also wrote several specifications that were included in the contract documents.
09/18 – 12/18	**MDOT, I-20 Vicksburg Bridge Rehab (Bridge No. 0.1), Vicksburg, MS | *Transportation Engineer.*** This work assignment was a short turn around project as office review plans for the bridge project were already completed and the letting date set. This project was a LADOTD project but MDOT contracted the ITS plans which required the Gresham Smith team to match LADOTD plans and pay items with what MDOT currently uses. Tait led and coordinated the design of removing, replacing, and relocating

	fiber optic cable, conduit, and ITS devices as part of a bridge rehabilitation project. These tasks included field investigation, equipment layout, communications design, power analysis, and writing specifications and notice-to-bidders documents.
02/17 – 12/20	**LADOTD, SRTS/LRSP Task Order 6: Endom Bridge Preliminary and Final Design, West Monroe, LA | *QA/QC.*** Tait assisted with the development of the final report and performed QA/QC review.
11/16 – 09/17	**MDOT, SR 302 (Goodman Road) Safety Improvements near the I-55 Interchange, Desoto County, MS | *QA/QC*.** Tait assisted with the development of the final report and performed QA/QC review.
02/16 – 10/19	**LADOTD, SRTS/LRSP Task Order 2: McMillan Road Intersection Traffic Study, West Monroe, LA | *QA/QC*.** Tait assisted with the development of the final report and performed QA/QC review.
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 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, 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.
11/16 – Ongoing	**ALDOT TMC Operations, Birmingham, Huntsville, Montgomery, & Tuscaloosa, AL | *Transportation Engineer*.** Tait developed database tools for the performance measures data for the regional traffic management centers. The tools are used to gather, summarize, and archive the large amounts of data that the centers create each month, providing support for the data analysis of the performance measures.
Certifications (See section 20)	• DOTD Traffic Engineering Analysis Process & Report – Modules 1, 2, and 3

16. Staff Experience:

Gresham Smith

Kelly Morgan
TSMO Specialist

Years of experience with this employer	3
Years of experience with other employer(s)	6

Degree(s) / Years / Specialization	Graduate Certificate / 2013 /, Geographic Information Systems, North Carolina State University Bachelor of Science / 2010 / Urban Studies, Virginia Commonwealth University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	TSMO Specialist / Kelly will support the Capability Maturity Model assessments and the TSMO policy development.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
10/16 – Ongoing	**ALDOT, Traffic Management Center Staffing & Operations | Statewide, AL, | *ITS Operations.*** Kelly assists the Project Manager on all matters concerning RTMC operations, personnel, facilities, software, equipment, and stakeholder coordination and engagement. She helps to oversee RTMC staff to ensure that all personnel requirements are being met, and job duties are being performed in accordance with established standard procedures and practices of ALDOT. She assists RTMC Managers with hiring and training employees; planning, assigning, and directing work; appraising performance; compiling performance measures data for the development of Monthly, Quarterly, and Annual Operations Reports; and maintaining RTMC Operations Manual and RTMC Training Program materials. Kelly supported ALDOT with their Capability Maturity Model self-assessment for the East-Central Region.
11/16 – Ongoing	**ALDOT, ITS SOP's Performance Measures & TIM Program | Statewide, AL, | *ITS Operations.*** Kelly assisted Gresham Smith and ALDOT with developing statewide standard TMC operational procedures, statewide performance measures, traffic incident management guidelines and a traffic management center staffing RFPs. Other tasks include developing detour plans for Mobile, Montgomery and Birmingham as well as conducting stakeholder workshops to implement a statewide TIMs program. Assisted in the update of the SOPs and the creation of the RTMC Operations Manual.
1/17 – 8/17	**ALDOT, Development and Implementation of a Training Course for Mobile RTMC Operators | Statewide, AL, | *Project Manager.*** Kelly led the Gresham Smith team that developed and implemented a Training Course for Mobile RTMC Operators. The team observed operations at the ALDOT's and conducted a Needs and Skills Analysis. Gresham Smith conducted a High-Level Assessment of RTMC Operator Knowledge, Skills and Abilities (KSAs). Based on assessment, observation, Operator interviews and questionnaire responses, the team developed the training curriculum, and associated presentations, manuals, training assessments and testing tools.
12/16 – 6/17	**City of Helena, MS4 Permit Support Services | Helena, AL, | *GIS Support.*** Kelly provided GIS support for Gresham Smith Engineers working on the City of Helena MS4 Permit plans. Utilized ArcGIS to update shapefiles.
3/14 – 9/15	**VDOT, Traffic Management Center Staffing & ITS Operations | Statewide, VA, | *Senior Operations Analyst.*** Kelly assisted by providing VDOT with management and training of statewide traffic management centers, including personnel management, staffing, creation of standard operating procedures, creation of a training and certification program. Expert knowledge and reporting of TMC key performance indicators (KPIs) and service level agreements (SLAs). Provide management and training of

	statewide service patrols (SSP), including personnel management, asset management, staffing, creation of SOPs, creation of a training and certification program. Expert knowledge and reporting of SSP KPIs and SLAs. Provided management of an ITS device maintenance program and network operations center. Create and maintain an accurate inventory of ITS devices. Maintain an expert level of knowledge and reporting on ITS KPIs and SLAs. Participate in monthly VDOT audits for TMC, SSP and ITS. Collect, manage, analyze and report on TMC, SSP and ITS performance data.
1/12 – 3/14	**NCDOT, TIM and Operations | Statewide, NC, |** ***Traffic Analyst & GIS Coordinator.*** Major components of this project included providing 24/7 management and training of statewide traffic operations personnel. Collecting, managing and analyzing traffic and GIS data. Outreach with partnering agencies regarding statewide operations and major construction projects. Providing system and operational QA/QC of ATMS and ATIS.
2/13 – 3/14	**NCDOT, TIM Special Projects – Statewide Operations | Raleigh, NC |** ***Traffic Analyst & GIS Coordinator.*** Major components of this project included creation of a statewide operator training program and certification. Creation and maintenance of SOPs as procedures and policies were introduced or updated. Collaboration with DOT personnel on requests for GIS services and other special projects as they relate to traffic incident management. Production of heat maps for accident and congestion hotspots. Coordination with DOT GIS personnel to produce and maintain a real-time statewide incident map. Collaboration with NCDOT division and county engineers to produce a statewide interstate detour database.

16. Staff Experience:

Gresham Smith

Daniel Knott

Senior Inspector

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 Inspector / Daniel will support the field inspection and investigation and testing/QA tasks.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
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.
12/17 – Ongoing	**MDOT, ITS CEI, US 49 from Florence to Scale Area, Florence, MS | *Designer.*** Gresham Smith is providing construction administration and inspection services on the ITS elements included in the US 49 from Florence to the Scale Area Project. Daniel is responsible in leading the daily field CE&I inspections, logging in the dailies, and implementing project requirements.
1/19 – Ongoing	**LADOTD, ITS CEI Retainer, Lake Charles Phase 3 ITS, CEI, Lake Charles, LA | *Senior Inspector.*** 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. Daniel assisted with construction inspection.
5/17 – Ongoing	**LADOTD, ITS Design and Implementation, WO#6: Fiber Optic Mapping and Management, Tangipahoa, St. Tammany, St. John and Orleans Parishes, LA | *Designer.*** Daniel was responsible for drafting updates onto the master database.
12/18 – Ongoing	**Lafayette Consolidated Government (LCG), 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.
5/17 – 11/18	**MDOT, 2015 ITS WA#1: Desoto County CMAQ CEI, Inspection, MS | *Resident Project Representative.*** Daniel was responsible for daily construction inspection of installation of approximately 50 miles of fiber optic cable and equipment, DMS signs, CCTV cameras, RDS equipment and BDS equipment.

16. Staff Experience:

Gresham Smith

William "Bud" Smith

Senior Inspector

Years of experience with this employer	3
Years of experience with other employer(s)	37

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		Senior Inspector / Bud will provide construction support and support field inspection and testing tasks.	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
1/19 – Ongoing	**LADOTD CEI- H.011500.6 Lake Charles Phase 3, Lake Charles, LA | *Construction Inspector***. 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. Bud is responsible for assisting with the daily field CE&I inspections, logging in the daily diaries, and ensuring project requirements are followed.
Prior to joining Gresham Smith	**LADOTD, District 07, Lake Charles, LA | *District Traffic Coordinator.*** While working at LADOTD, Bud's responsibilities included overseeing and assisting in data collection needed for traffic studies, overseeing the District's Highway Beautification and Outdoor Advertising programs, analyzing information gathered and recommending traffic control and capacity improvements, receiving and responding to traffic related inquiries and requests from the general public and other government agencies, inspecting newly installed traffic signs, striping and signals to ensure compliance with the state and federal specifications, project plans and contract documents, and overseeing and assisting in maintaining current and historical records of traffic signs and signals, speed limits, and pavement markings.
10/18 – Ongoing	**LADOTD, LCG Adaptive Traffic Signal System, Lafayette, LA | *Inspector.*** Gresham Smith developed an Adaptive Traffic Signal System for the Lafayette Consolidated Government, which involved upgrading over 200 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be both the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of over 200 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel time studies.

16. Staff Experience:

Gresham Smith

Rebecca Murray, P.E., PTOE, RSP1

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	Traffic Engineer / Rebecca will support traffic operations 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).**
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

Richard Savoie, P.E.

Senior Engineer / TSMO Policy Task Lead

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 Engineer / Richard will assist with TSMO policy updates and development as well as support engagement, outreach and stakeholder training.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
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 – 12/19	**LADOTD, SRTS/LRSP Task Order 14: Farmerville Design, Union Parish, Farmerville, LA | *Senior Engineer.*** Richard provided quality control review for the Final Plan submission for this Safe Routes to Public Places Project. The review was to ensure that the plans were developed in accordance with standard LADOTD policy and procedure. Plans included installation of sidewalks along various local roadways, driveway adjustments to ensure ADA compliance and utility relocation avoidance.
04/20 – Ongoing	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design | *Senior Engineer.*** Gresham Smith is tasked with the full roundabout design which will 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 will perform QC reviews on the preliminary and final design plan submissions.
09/18 – 12/20	**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 was responsible for Quality Control on the final design process.
02/90 – 03/14	**LADOTD, Project and Program Delivery.** Richard was the Project Manager for the I-49 North project in Caddo Parish, from I-220 to the Arkansas State Line. The project started with the Corridor Selection Study and progressed to the Environmental Impact Study. Once the alignment was selected plan development began and thence project delivery for this $670 million project. As the Deputy Chief and Chief Engineer, he met with program managers in the Engineering Division and approved and recommended changes to their budget partitions and project schedules.

16. Staff Experience:

Gresham Smith

Randy Battey, P.E.

Senior Engineer / Grant Task Lead

Years of experience with this firm/employer	32
Years of experience with other firm(s)/employer(s)	8

Degree(s) / Years / Specialization	Bachelor of Science / 1989 / Civil Engineering / Louisiana Tech University		
Active registration number / state / expiration date	P.E. 0038830 / LA / 9/30/24		
Year registered	2014 (LA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Senior Engineer / Randy will lead the grant application writing and support task.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/17 – Ongoing	**MDOT, Various Financial and Project Management Plans, Statewide, MS | *Principal.*** Randy oversaw the development of 25 separate Financial and Project Management Plans meeting the requirements contained within 23 USC 106(h) and 106(i) of the current Code of Federal Requirements.
04/14 – 12/14	**MDOT, Analysis and TIGER Application for I-20 Vicksburg Bridge, Vicksburg, MS | *Project Manager.*** Gresham Smith performed a benefit/cost analysis and related studies for proposed remediation improvements at the I-20 bridge over the Mississippi River in Vicksburg.
04/15 – Ongoing	**MDOT, Discretionary Grant Applications, Statewide, MS | *Project Manager.*** Coordinated the application development, related benefit cost analysis and final submittal of multiple TIGER, CHBG, INFRA, FASTLANE, BUILD & RAISE, MPDG and Mega discretionary grant applications in accordance with USDOT requirements, of which MDOT was the sponsoring agency.
05/09 – 12/13	**MDOT's Local Public Agency (LPA) Program, Jackson, MS | *Program Manager.*** From May of 2009 until December 2013, Randy administered MDOT's LPA Program to utilize federally funded Surface Transportation Program, Transportation Enhancement (TE), Transportation Alternative Program, Safe Routes to School, National Highway System and various federal earmarks and discretionary program award funds for Metropolitan Planning Organizations and other local agencies statewide. Randy interacted with MPO & LPA representatives as required to advance these needed transportation improvements in accordance with Federal Highway Administration requirements.
04/17 – 12/19	**MDOT, Consultant Services Manual Development, Statewide, MS | *Project Manager.*** Randy led the development of a new Consultant Services Unit (CSU) Manual for MDOT which outlines the policies and procedures in conformance with the Consultant Services Final rule established by CFR-172.
07/19 – 12/19	**MDOT Organizational and Process Development | *Project Manager.*** Managed and led the development of all aspects of MDOT Organizational Summary documents for stakeholders, MDOT Consultant Services Process document for employees and other various MDOT program improvement projects.

16. Staff Experience:

Gresham Smith

Camryn Jones
Grant Application Coordinator

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

Degree(s) / Years / Specialization	Bachelor of Science / 2017 / Communications / Mississippi College		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Grant Application Coordinator / Camryn will support the grant application writing activities.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/18 – 12/18	**MDOT, 2018 SR 19 Neshoba County BUILD Transportation Grant Application, Philadelphia, MS | *Document Control, Graphic Design.*** Camryn was responsible for preparing the application and its website for submittal.
06/18 – 12/19	**MDOT, 2019 SR 76 INFRA Application, Golden, MS | *Document Control, Graphic Design.*** Camryn is responsible for preparing the application and its corresponding website.
07/17 – 12/19	**MDOT, CSU Operations Manual – Phase 2, Jackson, MS | *Project Graphics.*** Coordinator Camryn was responsible for creating a responsibility matrix based on the procedures outlined in the manual.
07/18 – 12/18	**MDOT, US 49 2018 BUILD Transportation Grant Application, Gulfport, MS | *Document Control, Graphic Design.*** Camryn was responsible for preparing the application and its website for submittal.
0618 – 12/18	**ALDOT, Mobile RTMC Training, Mobile, AL | *Project Graphics Coordinator.*** Camryn was responsible for creating elements of the training program, as well as the follow-up report.
05/18 – 12/20	**ALDOT, TMC Operations, Birmingham, AL | *Project Graphics Coordinator.*** Camryn was responsible for RMT related materials, including monthly reports and a flyer for stakeholders.
06/18 – 12/20	**ALDOT, TMC Operations, Huntsville, AL | *Project Graphics Coordinator.*** Camryn was responsible for RMT related materials, including monthly reports and a flyer for stakeholders.

16. Staff Experience:

WSP USA Inc.

Reno Giordano

Strategic Plan Task Lead

Years of experience with this firm/employer	16
Years of experience with other firm(s)/employer(s)	3

Degree(s) / Years / Specialization	MS / 2007 / Transportation Technology & Policy / University of California-Davis BS / 2001 / Mechanical Engineering / Cornell University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Strategic Plan Task Lead / Reno will also support TSMO policy development and the capability maturity model assessments..		

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	Reno is a seasoned applied researcher and consultant in TSMO and the application of advanced technologies to transportation systems. He has significantly helped advance the understanding and state-of-the-practice application of agency business process and institutional arrangements that allow transportation agencies to conduct more effective TSMO activities. These include contributions to a suite of foundational TSMO research and implementation projects that originated the capability maturity model (CMM) self-assessment process and workshop to TSMO, support for 35+ CMM workshops around the country, and most recently authoring portions of the forthcoming AASHTO Transportation Operations Manual. He has applied this expertise directly to TSMO planning and research assignments for state DOTs, often addressing a wide range of TSMO implementation considerations through the development of TSMO strategic plans or program plans. During this time, Reno has been a TSMO subject matter expert leading various tasks for the FHWA Office of Operations. He currently manages WSP's five-year on-call contract with the Office of Operations supporting various programs and initiative. His work has included workshops, implementation planning support, guidance development, peer exchanges, and training.
08/19 – 10/22	**National Cooperative Highway Research Program (NCHRP), 03-126, Transportation Operations Manual, Washington, DC** | ***Task Lead/Co-Author*** for the development of the AASHTO Transportation Operations Manual, which will serve as the definitive source on all aspects of TSMO from planning to tactics to emerging trends. Coauthored 11 chapters on strategic and programmatic TSMO topics including TSMO program planning and all dimensions of TSMO capability maturity. The Manual will be balloted by AASHTO and will be comparable to A Policy on Geometric Design of Highways and Streets (Green Book), but for TSMO.
NH: 11/22 - 3/23 KY: 08/21 - present NE: 08/20 – 08/21 MN: 02/18 – 07/19 OR: 08/17 – 07/18 SD: 07/15 – 06/16	**State DOT TSMO Program Planning: Mr. Giordano has applied his research and state of the practice knowledge to assist state DOTs in the preparation of TSMO program plans.** • **New Hampshire DOT TSMO Strategic Plan, Concord: *Subject Matter Expert/Author*** of NHDOT's 2024–2032 TSMO Strategic Plan. Worked closely with NHDOT TSMO Bureau leadership to complete the plan in a short timeframe, consisting of strategic, programmatic, and tactical elements. The plan revisited and significantly revised previous TSMO plans, focusing on new strategic objectives, programmatic recommendations to improve TSMO program function, and set of TSMO tactics to consider for implementation during the plan timeframe.

	• **Kentucky Transportation Cabinet (KYTC), TSMO Program Plan, Frankfort, KY	*Team Member*** to prepare the Kentucky Transportation Cabinet's (KYTC) first TSMO program plan consisting of a strategic plan and business plan. Worked with a multidisciplinary stakeholder group within KYTC to establish a set of TSMO strategic objectives and identify programmatic improvements to implement the objectives and advance the KYTC TSMO program. • **Nebraska Dept. of Transportation (NDOT), TSMO Strategic Plan, Lincoln, NE	*Project Manager*** to prepare a TSMO Strategic Plan for Nebraska DOT (NDOT). Following industry and FHWA practice, the plan includes strategic, programmatic, and tactical elements to guide NDOT's TSMO program over a 10-year timeframe. Guided the development of a strategic vision and objectives, programmatic recommendations to improve business processes and organization, and tactical ITS investments as input into future project programming cycles. Managed and conducted literature review activities, stakeholder engagement, and interaction with a TSMO Executive Council that provided plan preparation input and oversight. • **Minnesota Dept. of Transportation (MnDOT) TSMO Program Planning Support, Minneapolis, MN	*Task Lead*** to develop a TSMO program plan for Minnesota DOT comprising strategic, implementation, and business plans. Contributed to development of the strategic plan and leading the development of the business plan. The business plan identifies programmatic recommendations to execute the identified strategic objectives and the strategies identified in the implementation plan, including changes in business processes, collaboration, resources, and organization. Presented national best practice at a strategic planning workshop. Facilitated a business planning workshop to identify program strengths and challenges, and recommendations to improve. Currently beginning a new task to revise the strategic plan and develop a framework for TSMO strategy tactical plans. • **Oregon Dept. of Transportation (ODOT) Operations Program Plan, Salem, OR: *Team member*** to develop an Operations program plan for Oregon DOT. The project included extensive engagement with stakeholders through a survey, a series of interviews, and ongoing meetings during project. Helped guide development of a TSMO definition for Oregon DOT along with TSMO program mission and vision statements and a set of goals for the program. Drew on national experience with these program elements to inform Oregon's. Contributed to identification of gaps in current practices and procedures that led to development of a TSMO action plan for overall program improvement. • **South Dakota TSMO Program Plan, Pierre, SD	*Project Manager/Principal Investigator*** to prepare a TSMO Program Plan for South Dakota DOT (SDDOT). The plan guides business planning and strategic decision-making to advance SDDOT's informal TSMO program to one with a more effective and formalized approach to incorporating TSMO into the department's mission, goals and objectives, future planning initiatives at all timescales, and day-to-day activities. It presents a series of recommendations in the form of actions, tasks, and implementation steps, as well as the "business case" for committing to the recommendations, suitable for internal, decision-maker, and public audiences.
2009 – 2012 2010 – 2013 2011 - 2017	**Application of the Capability Maturity Model to TSMO**: Reno contributed to a foundational suite of projects for SHRP 2, NCHRP, and FHWA that originated the application of CMM to improving transportation agency effectiveness in TSMO, including guidance development, online self-assessment, and design and delivery of the CMM self-assessment workshop. • **Institutional Architectures to Advance Operational Strategies, SHRP 2 L06	*Deputy Project Manager*** for Phase II of this project now regarded as foundational research to agency TSMO capability improvement. Managed the five Phase II, FHWA-sponsored workshops with select DOTs and regional partnerships that evolved into those formally used in SHRP 2 Reliability Implementation. • **AASHTO Transportation Systems Management and Operations Guidance, NCHRP 03-94	*Deputy Project Manager*** responsible for the final content and functionality of the AASHTO TSMO Guidance website and self-assessment tool (aashtotsmoguidance.org), which has underpinned all TSMO CMM workshops and inspired TSMO strategy-specific Capability Maturity Frameworks developed by FHWA.

16. Staff Experience:

WSP USA Inc.

Leslie (Les) Jacobson, P.E.

Capability Maturity Model (CMM) Assessments Task Lead

Years of experience with this firm/employer	19
Years of experience with other firm(s)/employer(s)	26

Degree(s) / Years / Specialization	MS / 1980 / Transportation Engineering / university of California-Berkeley BS / 1978 / Civil Engineering / University of Washington		
Active registration number / state / expiration date	P.E. 22161 / WA / Exp. 5/10/2025		
Year registered	2023	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	CMM Task Lead / Les will also support development of the Strategic Plan, policies, and TSMO strategies and solutions.		

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	Over his 45+ year career, Les has provided strong leadership in resolving transportation challenges by applying solutions in transportation systems management and operations; intelligent transportation system planning, architecture and deployment; traveler information systems; traffic management systems, including active traffic management, ramp metering, and transportation management center operations; road weather information systems; managed lanes; tolling; and intelligent transportation system standards. Les began his career with the Washington State Department of Transportation. He was with Washington State Department of Transportation for 22 years, leading technology implementation for many of the innovative transportation programs initiated in the Seattle area.
08/21 - present	**Kentucky Transportation Cabinet (KYTC), TSMO Program Plan, Frankfort, KY | *Team Member*** to prepare the Kentucky Transportation Cabinet's (KYTC) first TSMO program plan consisting of a strategic plan and business plan. Worked with a multidisciplinary stakeholder group within KYTC to establish a set of TSMO strategic objectives and identify programmatic improvements to implement the objectives and advance the KYTC TSMO program.
2018	**Oregon Dept. of Transportation (ODOT), Transportation Systems Management and Operations (TSM&O) Program Plan, Portland, OR | *Project Manager*** for an effort to develop a transportation systems management and operations (TSMO) program plan for the Oregon Department of Transportation (ODOT). This project includes extensive engagement with stakeholders through a survey, a series of interviews, and on-going meetings throughout the life of the project. Input from the survey and interviews will guide the development of a TSMO definition for ODOT along with TSMO program mission and vision statements and a set of goals for the program. The Team will identify gaps in current practices and procedures that will lead to the development of a TSMO action plan. That action plan will provide the basis for the ODOT TSMO Program Plan. WSP is developing a Transportation Systems Management and Operations (TSM&O) Program Plan that lays out the steps needed to improve ODOT's maturity in TSM&O dimensions. WSP is engaging a stakeholder groups to build consensus on TSM&O mission, vision, and goals and a solid definition of ODOT's TSM&O program, to understand program strengths and weaknesses, and to develop a prioritized list of actions needed to continue to improve and mature the ODOT TSM&O Program.

2020 - 2021	**Nebraska Department of Transportation (NDOT), Transportation Systems Management and Operations Strategic Plan, Lincoln, NE, *Technical Lead*** for the strategic element of the transportation systems management and operations program plan. WSP is developing a transportation systems management and operations strategic plan for the Nebraska Department of Transportation. The primary objectives are to document and disseminate a vision for transportation systems management and operations throughout the transportation network; identify issues, concerns, and conditions that Nebraska Department of Transportation should consider in its development of transportation systems management and operations; prioritize issues and concerns; document statewide transportation systems management and operations program policies that provide a framework for planning efforts; identify transportation systems management and operations program priorities and recommend specific transportation systems management and operations and intelligent transportation systems initiatives and investments for implementation over a 10-year period; and identify business process, institutional, and other challenges, and propose strategies for meeting those challenges.
2019 - 2022	**National Cooperative Highway Research Program (NCHRP), 03-126 Transportation Operations Manual, Washington, DC	*Project Manager/Principal Investigator*** for this project to develop the Transportation Operations Manual for American Association of State Highway and Transportation Officials balloting. This manual is the first of its kind. WSP is developing this manual, which will cover transportation systems management and operations from several perspectives: strategic context for transportation systems management and operations, transportation systems management and operations program planning, and relationship to agency project development and programming, as well as specific tactics implemented in the field to improve transportation operations. Significant outreach was included in the project.
10/19 – 11/20	**Federal Highway Administration (FHWA), Organizing for Reliability, Assessment and Implementation Plan Development, Nationwide	*Workshop Facilitator*** that assists state departments of transportation and partner agencies assess organizational transportation systems management and operations maturity. The primary objectives of this task order were to assess organizational transportation systems management and operations maturity of 20 state and regional transportation agencies and develop an implementation plan for each of these early implementers to advance their transportation systems management and operations program. This effort grew out of the Strategic Highway Research Process 2 L06 effort, "Institutional Architectures to Advance Operational Strategies." The workshops include identification of agency transportation systems management and operations strengths and challenges, self-assessment of the agencies' capability in six dimensions of transportation systems management and operations capability, and the development of an implementation plan that will help the agencies progress from one maturity level to the next.
02/18 – 07/19	**Minnesota Dept. of Transportation (MnDOT), Transportation System Management and Operations Program Planning Support, Minneapolis, MN	*Project Manager*** for an effort to develop a transportation systems management and operations (TSMO) program plan for the Minnesota Department of Transportation. This project includes extensive engagement with stakeholders through workshops, interviews, and ongoing meetings throughout the life of the project. Input from the stakeholders will guide the development of all aspects of the project. The team will develop a TSMO strategic plan, a TSMO implementation plan, and a TSMO business plan. WSP is developing a transportation systems management and operations (TSMO) strategic plan, implementation plan, and business plan that will provide overall direction and strategic outcomes for the Minnesota Department of Transportation's (MnDOT) TSMO Program.
2010 – 2013	**AASHTO Transportation Systems Management and Operations Guidance, NCHRP 03-94	*Project Manager*** responsible for the final content and functionality of the AASHTO TSMO Guidance website and self-assessment tool (aashtotsmoguidance.org), which has underpinned all TSMO CMM workshops and inspired TSMO strategy-specific Capability Maturity Frameworks developed by FHWA.

16. Staff Experience:

WSP USA Inc.

Scott Beck, P.E.
Senior TSMO Engineer

Years of experience with this firm/employer	4
Years of experience with other firm(s)/employer(s)	19

Degree(s) / Years / Specialization	Bachelor of Science / 2000 / Civil Engineering / California Polytechnic State University		
Active registration number / state / expiration date	P.E. 41455 / AZ / Exp. 9/30/2025; P.E. 64943 / CA / Exp. 6/30/2023		
Year registered	2004 2003	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Senior TSMO Engineer / Scott will support development of the Strategic Plan, policies, and TSMO strategies and solutions.		

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	Scott provides technical and jurisdictional experience for transportation systems management and operations (TSMO). His background spans 23 years of broad experience from regional transportation planning to traffic analysis and operations to public sector asset and staff management. Prior to joining WSP, Scott held the position of assistant state engineer for the Arizona Department of Transportation within the TSMO division. He oversaw all regional traffic engineers, the statewide traffic safety section, and traffic maintenance units.
04/20 – 2/21	**Town of Gilbert, Transportation Systems Management and Operations Plan, Gilbert, AZ | *Peer Reviewer*** for the development of the Town's transportation systems management and operations plan and assisted the Town in developing staffing requirements in terms of roles and responsibilities for the new organization. The transportation systems management and operations plan set priorities to move the Town forward in active traffic operations and to better use existing Intelligent Transportation System infrastructure and staff resources. WSP, as a subconsultant, is assisting with the planning and continued evolution of the Town of Gilbert's transportation system. The town has a solid infrastructure basis, sound capital investment program, and is looking for this transportation systems management and operations (TSMO) plan to guide the future. WSP will help leverage the Maricopa Association of Governments Systems Management and Operations Plan to help the town create a specific and unique TSMO plan that will inform investments, resource development, and local/regional operations.
08/19 – 10/22	**National Cooperative Highway Research Program (NCHRP), 03-126 Transportation Operations Manual, Washington, DC | *Contributor*** to the American Association of State Highway Transportation Officials Manual on Transportations Systems Management and Operations for transportation agencies. The manual will include information, effective practices, and potential standards for strategic, programmatic, and tactical elements of transportation operations. A key aspect of the document will be on how to effectively incorporate operations in the decision-making process. WSP is developing this manual, which will cover transportation systems management and operations from several perspectives: strategic context for transportation systems management and operations, transportation systems management and operations program planning, and relationship to

	agency project development and programming, as well as specific tactics implemented in the field to improve transportation operations. Significant outreach will be included in the project.
09/17 - present	**Arizona Dept. of Transportation (ADOT), Loop 101 Mobility/Transportation Systems Management and Operations, Phoenix, AZ | *Technical Lead*** in the ramp metering evaluation, coordinating with Arizona Department of Transportation staff in the inventory, assessment, and evaluation of the ramp metering equipment and operations. WSP, as a subconsultant, is providing transportation system management and operations support for the Arizona Department of Transportation's Loop 101 Mobility project. The project goal is to develop and implement a series of improvements to support Integrated Corridor Management along a 61-mile interstate route in Phoenix, Arizona. WSP involvement has focused on evaluating and modifying ramp metering to adaptive operations.
2018 - present	**Federal Highway Administration (FHWA), IDIQ, Intelligent Transportation System/Transportation Systems Management and Operations (TSMO) Improvement Support, Washington, DC | *Lead Author*** in this ongoing research project for the U.S. Department of Transportation Federal Highway Administration. The project team, in coordination with state departments of transportation, identified specific challenges that are experienced between Internet Technology and Transportation Systems Management and Operations departments and recommended effective practices. WSP is providing services for this project to strengthen the effectiveness of transportation systems management and operations programs. The team will work to improve the coordination of IT activities and programs with transportation systems management and operations activities and programs and to help bridge the gaps that often exist between IT and intelligent transportation systems/transportation systems management and operations efforts in state and local agencies. The objective of this project is to provide helpful information, best practices, tools, and customized technical outreach to support state and local agencies in improving their IT-intelligent transportation system/transportation systems management and operations coordination, such that the interests of both perspectives can be achieved in an efficient and productive manner. The project will fill key gaps in the Federal Highway Administration Organizing and Planning for Operations program by strengthening agency institutional foundations.
08/18 - 09/22	**Iowa Dept. of Transportation, Des Moines Integrated Corridor Management, Des Moines, IA | *Technical Role*** developing Concept of Operations documents for the overarching programmatic-level integrated corridor management structure, as well as strategy-level implementations. Ongoing tasks include developing advanced freeway management Concept of Operations with a focus on improved safety and efficiency using technology. WSP is providing data collection, needs assessment, implementing integrated corridor management and selected capacity improvements, stakeholder/public engagement, and project management and coordination. We provided a needs assessment and worked with stakeholders to develop a vision, goals, and set of performance measures.
2010 – 2013	**AASHTO Transportation Systems Management and Operations Guidance, NCHRP 03-94 | *Project Manager*** responsible for the final content and functionality of the AASHTO TSMO Guidance website and self-assessment tool (aashtotsmoguidance.org), which has underpinned all TSMO CMM workshops and inspired TSMO strategy-specific Capability Maturity Frameworks developed by FHWA.

16. Staff Experience:

WSP USA Inc.

Jason Stribiak, AICP

Senior TSMO Advisor

Years of experience with this firm/employer	13
Years of experience with other firm(s)/employer(s)	6

Degree(s) / Years / Specialization	BS / 1999 / Community and Regional Planning / Iowa State University MS / 2001 / Transportation / Iowa State University		
Active registration number / state / expiration date	AICP 020661		
Year registered	n/a	**Discipline**	AICP
Contract role(s) / brief description of responsibilities	Senior TSMO Advisor / Jason will support development of TSMO policies.		

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	Jason is a transportation system management and operations (TSMO) specialist with over 20 years of experience that includes a variety of freeway management applications and strategies including traffic incident management, ramp management, active transportation and demand management, integrated corridor management, road weather management, and work zone management, among others. Jason's experience in system engineering ranges from ITS architecture to detailed system requirements. Jason has prepared dozens of ITS Architectures, User Needs, Concept of Operations, Requirements, and Implementation Plans. Jason has authored numerous papers on ITS-related subjects and was the co-author of FHWA sponsored guidebooks on Ramp Management and Control, Migration Plans and Procedures for Traffic Management Centers, and Active Traffic and Demand Management.
08/21 - present	**Kentucky Transportation Cabinet (KYTC), TSMO Program Plan, Frankfort, KY | *Team Member*** to prepare the Kentucky Transportation Cabinet's (KYTC) first TSMO program plan consisting of a strategic plan and business plan. Worked with a multidisciplinary stakeholder group within KYTC to establish a set of TSMO strategic objectives and identify programmatic improvements to implement the objectives and advance the KYTC TSMO program.
08/18 - 09/22	**Iowa Dept. of Transportation, Des Moines Integrated Corridor Management, Des Moines, IA | *Task Lead.*** Jason is supporting the Iowa Department of Transportation in establishing an integrated corridor management (ICM) program for the Des Moines, IA Metropolitan Area. Jason served as task lead and co-author for numerous Concept Operations documents that include the regional ICM program, individual freeway management strategies, and traffic management center enhancements required for ICM projects. Jason is also supporting development of two system requirements documents, one for proposed freeway management strategies and one for the ICM performance management reporting system.
02/18 – 07/19	**Minnesota Dept. of Transportation (MnDOT), Transportation System Management and Operations Program Planning Support | *Planning Lead.*** This project will develop a TSMO Program Plan that sets the direction of TSMO in Minnesota over the next five years. The Program Plan, which builds from ongoing efforts, consists of a TSMO Strategic Plan, Implementation Plan, and business Plan. Jason is responsible for leading the tactical decision making and implementation planning tasks. For tactical decision making, Jason will identify how MnDOT has historically made funding decisions, identify gaps in this process, and develop a screening tool to effectively integrate TSMO considerations into project funding decisions. For implementation

	planning, Jason will identify a comprehensive listing of services and activities that can advance the MnDOT TSMO program. The identified services and activities will be screened using the decision-making process to develop an interim, prioritized listing of viable projects.
04/21 – 12/21	**Texas Dept. of Transportation (TxDOT), Interstate 10 Truck Parking Availability System Concept of Operations, Crockett County, TX	*Task Support*.** As a subconsultant, WSP provided ITS planning services to the Texas Department of Transportation. WSP was responsible for developing a Concept of Operations for a new, yet to be built truck only parking facility on I-10 in Western Texas. Jason was primary author of the document and led stakeholder outreach to understand stakeholder needs and to gain consensus on the desired operations of the truck parking availability system. The ConOps document defined the operational environment, stakeholders, high-level system operational concept, and various scenarios under which the system is expected to operate including stakeholder roles and responsibilities.
09-22 – Present	**North Carolina Dept. of Transportation (NCDOT), Coordinated and Adaptive Ramp Metering Implementation Plan, Raleigh-Durham Metropolitan Region, NC	*Task Support*.** WSP is supporting the North Carolina Department of Transportation (NCDOT) with implementing Active Traffic Management (ATM) strategies, including but not limited to Coordinated Adaptive Ramp Metering (CARM), in the Raleigh-Durham Metropolitan Region. As part of this effort Jason was responsible for developing a CARM Implementation Plan as well as an ATM Concept of Operations for a segment of I-40. The Implementation Plan provides a roadmap of considerations for implementing CARM in the region and ultimately other parts of the state. The Plan specifically identifies prerequisites for implementation as well as operational and design options that ought to be considered prior to implementation. The I-40 ATM ConOps will document desired operation of ATM strategies including agency roles and responsivities for operating and maintaining specific ATM strategies.
07/20 – 06/21	**Nebraska Dept. of Transportation, Transportation Systems Maintenance and Operations (TSMO) Strategic Plan, Statewide, NE	*Task Support*.** Jason served a task support for the tactical element of the Nebraska Statewide Transportation Systems Management and Operations Strategic Plan. The Plan guides statewide TSMO activities for the next 10 years and lays out Strategic, Programmatic, and Tactical aspects of TSMO in Nebraska. Jason was responsible for helping to define a decision-making process for identifying and evaluating potential projects, services, activities, and other investment that supports the Statewide TMSO mission, goals, and objectives defined in the Strategic and Programmatic elements of the Plan. Jason was responsible for helping to identify how NDOT has historically made funding decisions, identifying gaps in this process, and developing a stakeholder-driven prioritization process to integrate TSMO consideration more effectively into funding decisions.
07/20 – 09/20	**Indiana Dept. of Transportation (InDOT), Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) Grant Application for the I-465 Active Traffic Management (ATM) Project, Indianapolis, IN	*Task Lead*.** WSP supported the Indiana Department of Transportation by developing an application in response to the USDOT's ATCMTD grant opportunity. InDOT's I-465 ATM concept included ramp metering, variable speed limits, and enhanced vehicle detection and probe data to improve safety and travel reliability along a vital segment of the I-465 corridor. Jason was responsible for lead the technical aspect so the grant applications and overseeing content development.
12/09 – 04/12	**Federal Highway Administration (FHWA), Active Traffic Management Program Technical Assistance and Support	*Primary Author*.** Responsible for authoring a FHWA-sponsored Guidebook on Active Traffic Management (ATM). The Guidebook will serve as a high-level reference for public agencies to use to identify the technical, institutional, and organizational aspects associated with the planning, designing, and implementing of active traffic management strategies and applications. The Guidebook will be developed in two phases. The first phase will develop a white paper that provides high-level, but timely information that agencies use as they consider deploying ATM strategies. The second phase will further develop the white paper into a more detailed guidebook that describes among other topics; the ATM concept, consideration factors for feasibility evaluation, thresholds for ATM deployment, and current practices and challenges implementing ATM strategies.

16. Staff Experience:

WSP USA Inc.

Robert Skaggs, P.E., PTOE

Senior TSMO Engineer

Years of experience with this firm/employer	3
Years of experience with other firm(s)/employer(s)	25

Degree(s) / Years / Specialization	BS / 1995 / Civil Engineering / Missouri University of Science & Technology		
Active registration number / state / expiration date	**P.E.0036407 / LA / Exp. 9/30/2023**; P.E. 56377 / FL / Exp. 2/28/2025; P.E. 34529 / AL / Exp. 12/21/2023; P.E. 039018 / GA / Exp. 12/31/2023; P.E. 2000150068 / MO / Exp. 12/31/2024; P.E. 041005 / NC / 12/31/2023 PTOE 884		
Year registered	LA 2011; FL 2000; AL 2014; GA 2014; MO 2000; NC 2014	**Discipline**	P.E./Civil, PTOE
Contract role(s) / brief description of responsibilities	Senior TSMO Engineer / Robert will support development of TSMO Strategies.		

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	Robert has 28 years of experience managing traffic engineering and intelligent transportation systems (ITS) design staff on transportation projects throughout the Southeast. His engineering capabilities from Transportation System Management and Operations (TSMO) projects include all types of ITS devices, such as closed-circuit television (CCTV) cameras, dynamic message signs (DMS) and vehicle detection. Robert has ensured the timely delivery of countless ITS/TSMO projects featuring traffic impact studies, safety reviews, intersection analyses, roadway analyses, signal timing development and implementation, lighting justification, and the design of sidewalks, signalization, signing, and pavement marking, lighting, and freeway management systems (FMS). Robert has completed the LADOTD Traffic Engineering Analysis Process & Report Modules 1, 2 and 3.
03/21 - 09/22	**City of Baton Rouge Parish of East Baton Rouge MoveBR Program, North Blvd. Corridor Enhancement (I-110 to Foster/Florida) Project No. 20-EN-HC-0002, Martin/Baton Rouge, LA | *Engineer of Record (EOR).*** As part of the MoveBR Program, this project aims to increase usership by enhancing mobility with Complete Streets features throughout the limits of the corridor. As a subconsultant, WSP performed the traffic study for the North Blvd. Corridor Enhancement Project. The study analyzed the existing and projected future conditions for operational and safety issues and developed reasonable design concepts that mitigate those issues. The traffic analysis study was performed in accordance with the Louisiana Department of Transportation and Development (DOTD) guidelines and policies, including the Traffic Engineering Process and Report guidelines, Complete Streets Policy, Engineering Directives and Standards Manual (EDSM), Highway Safety Manual (HSM), and LADOTDs Design Guidelines.
06/20 - Present	**Florida Dept. of Transportation (FDOT), Continued Services on Design Projects, Broward County, FL | *Senior Engineer.*** Responsible for leading ITS design efforts. WSP is providing design services for various roadway improvement needs on a task work order basis. The project involves the design and preparation of a complete set of construction contract or

	conceptual plans, documents, special provisions and incidental engineering services, as necessary, for minor projects comprised of resurfacing, restoration, and rehabilitation projects, safety projects, in-house production support, intelligent transportation system support, architecture and other services that may include developing concept reports, three-dimensional modeling, request for proposals on design-build projects.
06/20 - Present	**Florida Dept. of Transportation (FDOT), Countywide Advanced Traffic Management Systems Services, Pinellas County, FL | *Senior Engineer***. Responsible for ITS design oversight and quality control. WSP is providing countywide advanced traffic management systems services for Pinellas County. Assignments include Belcher Road advanced traffic management systems and intelligent transportation system design at Harn Boulevard; St. Petersburg downtown advanced traffic management systems/intelligent transportation system for the deployment an intelligent transportation system infrastructure encompassing a fiber-based communication subsystem, arterial Dynamic Message Sign subsystems, closed-circuit television camera subsystems, within the core business area of St. Petersburg.
2018 - 2020	**Florida Dept. of Transportation (FDOT), 2018-2020 District Wide Intelligent Transportation System Continuing Services, Districtwide, FL | *Project Manager*.** Responsible for overall contract management. WSP, under a district-wide task work order contract, is providing services including study, planning, design, management, review, and evaluation of intelligent transportation systems, device management, and operations that impact the transportation system at the Florida Department of Transportation District Seven.
01/22 - present	**Florida Dept. of Transportation (FDOT), District Four, State Road (SR) 710/Beeline Highway Signal Upgrades, Martin/Palm Beach County, FL | *Project Manager*.** WSP is providing design services for upgrading signal control and operations along SR 710/Beeline Highway from North Congress Avenue to President Barrack Obama Highway. The intent of the project is to upgrade the existing signal system with state-of-the-practice signal technology while establishing a connected vehicle-ready communication and signal system backbone for future deployments. Efforts include the development of strategic system engineering documents including System Engineering Management Plan (SEMP), Concept of Operations (ConOps), System Requirements Plan, and Systems Verification/Validation Plans and the preparation of final design plans.
2018 - 2019	**MetroPlan Orlando, ITS Master Plan for Orange, Osceola, and Seminole Counties, FL | *Project Manager*** responsible for the development of a regional strategic ITS Master Plan for the MetroPlan Orlando area, which includes Orange, Osceola, and Seminole Counties. The project team evaluated the current systems in the planning area to determine future needs and to formulate an implementation strategy for the future deployment and maintenance of the ITS. The Master Plan ensured certain conformity with federal and state requirements, account for emerging technologies in vehicles and devices used in transportation infrastructure and communication systems.
2011 - 2018	**Florida Dept. of Transportation (FDOT), Districtwide TSM&O Contract, FDOT District One, Districtwide, FL | *Project Manager*.** Responsible for the completion of various tasks related to the development of District One's TSM&O program. Project tasks included the Sarasota-Manatee County ATMS Master Plan, which included the evaluation of the existing ATMS and related devices, components, and features to provide recommendations for the future. Responsible for evaluating adaptive technologies and proposing ranking for locations that would most benefit from adaptive control. Assessed the Sarasota-Manatee Regional Transportation Management Center (RTMC) operations including communications and data sharing. Also prepared a detailed systems engineering analysis for signal designs as per the Federal Highway Authority guidelines, including a detailed ConOps. (completed at another firm)

16. Staff Experience:

WSP USA Inc.

Frank Perry
TSMO Engineer

Years of experience with this firm/employer	5
Years of experience with other firm(s)/employer(s)	30

Degree(s) / Years / Specialization	MS / 2004 / Master of Engineering Management / University of Detroit Mercy BS / 1995 / Bachelor of Electronic Engineering Technology / University of Toledo		
Active registration number / state / expiration date	n/a		
Year registered	n/a	**Discipline**	n/a
Contract role(s) / brief description of responsibilities	TSMO Engineer / Frank will support the CAV/Emerging Technologies 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).**
Career	Frank has over 30 years of program management and systems engineering experience, including 19 years deploying, testing, and operating connected vehicle (CV) systems. Frank led the deployment, testing, system verification, and operations of the original U.S. Department of Transportation (USDOT) CV Testbed in Michigan, CV device interoperability testing for the USDOT Safety Pilot Project, deployment, testing, and operations of the MnDOT Smart Corridor, and system verification for the Smart Columbus Connected Vehicle Environment. He is currently the Test Lead for the ODOT US33 Smart Mobility Corridor and a V2X Subject Matter Expert in several projects for the Michigan DOT, Ohio DOT, Maricopa County Arizona, and the Pool Fund Study Connected Intersection Program. He has been part of SAE and the Institute of Electrical and Electronics Engineers (IEEE) DSRC standards development since 2004 and is an executive member of the OmniAir Consortium Board of Directors, driving the policy, processes and procedures for testing and certifying CV devices.
02/22 - present	**Pooled Fund Study-Connected Intersection Message Monitoring System | *Project Manager and CV SME*** for the V2X System Requirements and testing support for a prototype software system. This project is assessing V2X Signal Phase and Timing (SPaT) and MAP messages for conformance to the ITE Connected Intersections Implementation Guide 4501, SPaT and MAP messages related to traffic signal status, roadway geometry utilizing V2X Basic Safety Messages (BSM) broadcast by vehicles, and notifying the system operator if an anomaly is detected.
10/20 – 12/22	**Connected Vehicle-Pooled Fund Study Connected Intersection Project | *Project Manager and CV SME*** for the CV testing support for verifying a 3 to 4 V2X roadside unit (RSU) corridor. This project conforms to ITE Connected Intersections Implementation Guide 4501. Corridors were tested in Georgia, Utah, and Ohio. Frank was also the SCMS Manger liaison for the project, representing the Pooled Fund Study Panel's interest related to V2S Security requirements.
10/16 - 05/21	**Smart Columbus, Columbus, OH | *Connected Vehicle Environment Test Lead.*** Supporting the testing and verification of 100 vehicle-to-everything (V2X) roadside units broadcasting signal phasing and timing (SPaT), Map, signal request messages (SRM), signal status messages (SSM), traveler information messages (TIM), and Radio Technical Commission for Maritime (RTCM) messages. WSP provided systems engineering and owner's representative for four of the Smart Columbus projects; connected vehicle, connected electronic automated vehicle, smart street lighting, and transit pedestrian safety.

03/19 - 02/22	**Michigan Dept. of Transportation, Intelligent Transportation System Program Office Connected Vehicle Support | *Principal Investigator*** in supporting the Michigan Department of Transportation (MDOT) with services including connected vehicle research and reporting, planning, deployment and maintenance, regulatory evaluation, training and outreach, and system operations at the request of the MDOT • project manager. WSP is providing intelligent transportation system services for Michigan Department of Transportation connected vehicles on an on-call basis throughout the state. WSP is responsible for conducting all engineering and technical connected vehicle support services.
07/15 - 07/19	**Ohio Department of Transportation (ODOT), US33 Smart Corridor RSU Integrator | *Connected Vehicle Test Lead*** supporting the test and verification of ~60 V2X Roadside Units broadcasting SPaT, Map, Signal Request Messages (SRM), Signal Status Messages (SSM), Traveler Information Messages (TIM), and Radio Technical Commission for Maritime (RTCM) messages
02/21- present	**Ohio Department of Transportation (ODOT), US33 Smart Corridor OBU Integrator | *Connected Vehicle Test Lead,*** supporting the test and verification of ~200 V2X vehicle On-Board Units supporting Red Light Violation Warning, Work Zone Warning, and Traveler Information warning applications.

16. Staff Experience:

WSP USA Inc.

Adam Greenstein, P.E., PTOE

TSMO Engineer

Years of experience with this firm/employer	7
Years of experience with other firm(s)/employer(s)	8

Degree(s) / Years / Specialization	M.S. / 2009 / Civil Engineering / Pennsylvania State University B.S. / 2008 / Civil Engineering / Washington University		
Active registration number / state / expiration date	P.E. 907227 / DC / Exp. 8/2023; P.E. 44291 / MD / Exp. 8/8/2023; P.E. 0402064994 / VA / Exp. 3/31/2024 Professional Traffic Operations Engineer: 4258 / US / Exp. 2023		
Year registered	DC 2013 MD 2013 VA 2022 Traffic 2017	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	TSMO Engineer / Adam will support the CAV/Emerging Technologies task.		

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	Adam is an experienced in multi-modal traffic engineering, highway safety, intelligent transportation systems (ITS), customer relations, and project management. Adam has over 14 years of experience working on various projects, which include design, analysis, operations, concept planning, and standards development. His experience also includes involvement in review of engineering plans and documents, including traffic impact studies, project impact reports, transportation management plans, and project management plans. Adam has extensive experience in the completion of multimodal traffic engineering studies. He brings experience working with numerous public agencies, including Maryland Department of Transportation (MDOT), the City of Philadelphia, Pennsylvania Department of Transportation (PennDOT), Delaware River Port Authority (DRPA), NJ Transit, Federal Highway Administration (FHWA), National Park Service (NPS), and the Washington Metropolitan Area Transit Authority (WMATA).
09/22 - present	**Maryland Dept. of Transportation (MDOT), Connected/Automated Vehicle Support, Maryland | *Traffic Engineering Lead.*** Prepare materials for periodic working group and specialty sub-group meetings to help refine Department's goals, update strategic planning initiatives, and coordinate with other state and local agencies as well as private partners. Assisting MDOT running statewide working group meetings, workshops, and outreach events for stakeholders and parties considering Expressions of Interest for CAV testing and deployment. Prepared and ran whiteboard for virtual workshop of over 200 participants on addressing workforce needs for CAV, collaborating ideas from various parties to answer key questions for MDOT's near-, mid-, and long-term action plans for CAV. Subject matter expertise provided in multimodal traffic engineering, with foundation built on insights from ITE technical activity volunteering (liaison between Traffic Engineering Council and CAV Standing Committee) and NCUTCD membership (Bicycle Technical Committee, CAV Joint Task Force).

01/17 - 12/18	**Maryland Transportation Authority (MdTA), Strategic Plan for CAVs, Maryland	*Engineering and Planning Lead*.** Developed strategic plan document to guide agency actions for operations, maintenance, staffing, workforce development, and capital planning related to CAVs. Organized and led internal focus group meetings geared towards developments of strategies to plan for future CAV needs based on division of agency's major roles and responsibilities. Led focused discussions tied to traffic control device needs related to future CAV operations on agency roadways, including operations near and through toll plazas.
03/20 - 09/20	**Maryland Dept. of Transportation, State Highway Administration (MDOT SHA), Interstate 695 Transportation System Management and Operations (TSMO), Baltimore, MD	*Lead Traffic Safety Engineer*** developed a matrix of potential safety improvements, developed and refined Highway Safety Manual model and Crash Modification Factor applications. Reviewed and did quality assurance/quality control for VISSIM modeling. WSP is performing the concept design and traffic analysis for this multimillion-dollar project to develop system and operational improvements to improve traffic flow and safety in this 19-mile corridor of Interstate 695 from Interstate-70 to Maryland State Route 43. The project involves the design and implementation of part time shoulder lane in the existing inside (center) median area. The part time shoulder implementation includes shoulder cross-slope modifications, drainage improvements, concrete median barrier modifications, the implementation of Lane Use Control signs and an Automated Incident Detection system.
03/17 - 11/18	**Maryland Transportation Authority (MdTA), Bay Bridge Lane Closure Analysis, Annapolis and Stevensville, MD	*Traffic Operations Analyst.*** Developed tool to analyze and summarize appropriate lane closure schedules under current and future volumes, utilizing TSMO and ATM strategies for lane use control signal system and DMS operations. Incorporated travel forecasting methodologies to predict future traffic demand. Designed queuing tables for hours-of-day by day-of-week for each month of the year and coded table to highlight when queues exceeded 0.5-mile, 1 mile, and 2 miles. Verified travel forecasting applications using combinations of historical trends and forecasts for both Chesapeake Bay Bridge and other MDTA facilities. Also develop automated processes for analyzing volumes on Bay Bridge for lane closure analysis screening tool. Goal to automatically update screening tool spreadsheets with new volumes and automate selection of lane closure scenarios to determine appropriate construction schedules with at least one lane closed. Considers daily, monthly, and seasonal variation in hourly traffic patterns.
09/16 - present	**Maryland Transportation Authority (MdTA), US 301 Governor Harry Nice / Senator Thomas Middleton Bridge Replacement General Engineering Contractor Services, Charles County, MD	*Lead Traffic Safety and Operations Manager.*** TMP, MOT, TCD, Lighting, and ITS/ATM Review – reviewed TMP report, MOT plans, signing and pavement marking plans, lighting plans, and ITS/ATM plans for bridge construction and road work. Developed Lane Use Control Signals Development Needs report - discuss function of lane use control signals on new bridge to confirm why MdTA is interested in implementing these systems and how to cost-effectively and efficiently implement, including gantry spacing/design, signing and marking needs, power and communications layout, impacts to safety and trip reliability, and costs.

16. Staff Experience:

WSP USA Inc.

Eunice Lovi

Grant Writer

Years of experience with this firm/employer	1.5
Years of experience with other firm(s)/employer(s)	20

Degree(s) / Years / Specialization	MURP / 1992 / Urban and Regional Planning / University of Caen M.S. / 1992 / Public Affairs / University of Oregon B.S. / 1988 / Communications / University of Oregon		
Active registration number / state / expiration date	n/a		
Year registered	n/a	**Discipline**	n/a
Contract role(s) / brief description of responsibilities	Grant Writer / Eunice will support grant writing 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).**
Career	Eunice brings 20+ years of public sector grant experience, from pre-award to post-award, including identifying funding opportunities, grant writing, grants management, and administration. Throughout her career, Eunice successfully secured formula and competitive grant awards for approximately $200 million. Prior to joining WSP, Eunice worked as the City of Asheville's Transit Planning Manager managing the City's FTA grant programs administering the Section 5303, 5307, 5310, and 5339 grant programs, as well as managed the City's eight subrecipients.
2/22 – 2/23	**City of Asheville, Transportation Department, Grant Management Support, Asheville, NC | *Project Manager.*** Eunice provides grant management support services to the City of Asheville Transportation Department including ongoing, day-to-day grant management, grant development, and grant compliance. This includes developing formula grant applications, obligating FTA grants using TrAMS, quarterly financial and milestone progress reports, working with the Finance Department on funding draw downs, and other day-to-day grant management support.
4/22 – 10/22	**Federal Transit Administration (FTA), City of Asheville, Transportation Department, FY2023- FY2025 Grant Compliance, Asheville, NC | *Project Manager.*** Managed the development and submission of the City of Asheville's FY2023 to FY2025 DBE Goals. This included coordinating the collection of financial, purchasing, and operating data, as well as working with Consulting team, the City, and sub-recipients to develop the required FTA's triennial goals.
8/21 - present	**Federal Transit Administration (FTA), Detroit Department of Transportation (DDOT), Grants Management, Detroit, MI | *Grants Manager.*** Eunice provided ongoing grant management and grant development support services to DDOT. This included developing the State of Michigan grant applications, developing a list of capital projects for inclusion in the grant allocation, and assisting with capital planning. Managed FY22 Triennial Review for grants including developingncorrective actions to comply with grant requirements and regulations.

1/18 - present	**Golden Gate Bridge, Highways, and Transportation District (GGBHTD), FY2022 RAISE Application, San Francisco, CA	*Grant Manager*.** Eunice managed grant development and writing for the FY2022 RAISE Grant Program for submission to USDOT. This included coordinating with GGBHTD on data collection and working with the WSP BCA team on incorporating benefit-cost analysis in the application.
2/23 - present	**Maryland Department of Transportation-Maryland Transit Administration (MDOT/MTA) – Grant Development and Management Support, Baltimore, MD	*Project Manager*.** WSP was selected to assist the Maryland Department of Transportation/Maryland Transit Administration (MDOT/MTA) to provide grants management and administration support, assisting with grant planning and strategy, formula grant application development and writing (TrAMS), grant monitoring and reporting, development of related training materials, facilitating grants workshops for internal staff, development of grants management best practices, and conducting research and completing a needs assessment for the selection of a grants management software.
7/17 - 10/18	**Broward County Transit, Grants and Procurement Department, Plantation, FL	*Transit Manager*.** Researched funding opportunities and prepared grant applications to seek funding for capital projects. Eunice administered federal and state transit grants and served as liaison to Federal Transit Administration and the Florida Department of Transportation. Eunice analyzed the Federal Transit Administration regulations relevant to grants and recommended appropriate solutions. She was responsible for preparing and submitting required financial and milestone progress reports using the Transportation Award Management System. Eunice worked with State of Florida Transportation Department to program funds in the federal transportation improvement program. She also coordinated preparation of and response to FY2018 Federal Transit Administration triennial review and participated in other transit-related audits.
2/12 - 2/17	**Stanislaus County Public Works, Modesto, CA	*Transit Manager*.** Prepared and managed grant applications for federal, state, and local transit funding programs and administered grants to comply with federal and state regulations. Eunice collaborated with the City of Modesto Transit Division to develop memorandum of understanding to become section 5307 subrecipient. She administered state transit programs including Proposition 1B Transit Security, Transportation Development Act; Proposition 1B Public Transportation, Modernization, Improvement, and Service Enhancement; and Low Carbon Transit Operation Program grant programs. Eunice served as liaison to the State of California Department of Transportation and the Stanislaus Council of Governments and worked with Stanislaus Council of Governments to program transit funds in the federal transportation improvement program. Eunice participated on metropolitan planning organization's social services transportation advisory, technical advisory, and mobility advisory committees. Eunice coordinated preparation of and response to State of California Transportation Development Act, triennial and annual compliance review and implemented applicable corrective actions. She also successfully applied for and obtained State of California transit funds to implement solar lighting project to enhance safety and security of passengers at bus stops, and managed transit division, prepared division annual budget, and supervised division staff.

16. Staff Experience:

WSP USA Inc.

Kaycee Mertz, AICP

Grant Writer

Years of experience with this firm/employer	2
Years of experience with other firm(s)/employer(s)	12

Degree(s) / Years / Specialization	M.A. / 2008 / Urban and Regional Planning / University of Florida B.B.A / 2006 / Regional Economic Development / Georgia Southern University		
Active registration number / state / expiration date	AICP		
Year registered	n/a	**Discipline**	AICP
Contract role(s) / brief description of responsibilities	Grant Writer / Kaycee will support grant writing 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).**
Career	Kaycee has 13 years of experience in transportation planning, with a foundation in urban planning and policy. She served in various management roles at the Georgia Department of Transportation (GDOT) in the Division of Planning and Division of Intermodal. Kaycee is experienced in administering federal transportation programs for rail, transit, and highways. She also excels at competitive grant writing, multimodal transportation analysis and decision making, regional and metropolitan planning organization (MPO) planning, stakeholder and public engagement, performance-based planning and managing corridor studies.
07/22 - Present	**Port of South Louisiana, Grant Services | *Grants Task Lead.*** As the grants task lead, Kaycee led a grant strategy effort which identified eligible and competitive port projects for a variety of USDOT discretionary funding programs and developed a plan of action for pursuing grant opportunities. Kaycee also developed a successful application under the LADOTD Port Priority Program.
02/18 - 06/18	**Railroad Administration, CRISI Grant Applications, Federal, GA | *Lead Author*** of six successful grant applications for short line rail upgrades under the Federal Railroad Administration's Consolidated Rail Infrastructure and Safety Improvements program, which was awarded $7.8 million in federal funding. Applications included customized benefit-cost analysis for each project. (completed at another firm)
01/19 - 08/20	**Georgia Dept. of Transportation (GDOT), Georgia Statewide Transit Plan, GA | *Agency Project Manager.*** Developed Georgia's first Statewide Transit Plan, which quantified needs for rural, small urban and intercity transit and was guided by stakeholder engagement, performance metrics and public surveys. Recommended strategies for expanding transit to unserved communities, serving workforce trips and modernizing rural transit
12/20 - 09/21	**Georgia Dept. of Transportation (GDOT), Regional Transit Development Plan Guidebook, GA | *Agency Manager.*** The project developed tools and best practices for estimating ridership, costs, conducting outreach, coordinating with other plans and developing recommendations. The guidebook was developed to assist regional commissions outside metro Atlanta in developing transit development plans and prepare for funding opportunities.

16. Staff Experience:

Vectura Consulting Services, LLC

Sheelagh Brin Ferlito, P.E., PTOE

Senior Traffic Engineer

Years of experience with this firm/employer	7
Years of experience with other firm(s)/employer(s)	27

Degree(s) / Years / Specialization	Bachelor of Science / 1988 / Civil Engineering		
Active registration number / state / expiration date	PE. 0025383 / LA / 9/30/2023		
Year registered	1993	**Discipline**	P.E. / Civil
Contract role(s) / brief description of responsibilities	Brin will provide traffic engineering support for the TSMO Strategy and Solution Projects.		

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

	LA. The study was based on LADOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on LADOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, LADOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the LADOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17 – 04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA.** Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on LADOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
08/15 – 05/17	**Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission Rockville, MD).** Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 “Criteria for Development of Evacuation Time Estimate Studies” in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the “large” population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over 8 hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14 – 12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project, Baton Rouge, LA | *Project Engineer*.** As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and LADOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12 – 03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA | *Project Resident Engineer*.** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor’s daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08 – 09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA | *Project Resident Engineer*.** Brin was the Project Resident Engineer for LADOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor’s daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for LADOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in LADOTD Site Manager and in EBR required formats as well as all items on the LADOTD Project Closeout Checklist including the 2059 Report.

16. Staff Experience:

Vectura Consulting Services, LLC

Laurence Lucius Lambert, II, P.E., PTOE, PTP Senior Traffic Engineer	**Years of experience with this firm/employer**	7
	Years of experience with other firm(s)/employer(s)	18

Degree(s) / Years / Specialization	Master of Science / 2006 / Civil Engineering Bachelor of Science / 1997 / Civil Engineering		
Active registration number / state / expiration date	PE. 0029901 / LA / 3/31/2024		
Year registered	2001	**Discipline**	P.E. / Civil
Contract role(s) / brief description of responsibilities	Laurence will provide traffic engineering support for the TSMO Strategy and Solution Projects.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
10/21—03/22	**H.013256.5 I-10 ITS Scott to Lake Charles, LA | *Lead Traffic Engineer.*** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
09/18 – 02/19	**H.013261.1 I-110 ITS Deployment Systems Engineering Analysis | *Project Manager.*** As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
08/15-05/17	**Enhancing Guidance for Evacuation Time Estimate Studies, Nuclear Regulatory Commission Rockville, MD.** Laurence conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Laurence was the lead VISSIM modeler for the "medium" and "small" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over 8 hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Laurence also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
06/12-12/12	**Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, LA | *Project Manager.*** Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following:

	2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included LADOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
07/11 – 07/15	**H.4400001465 Retainer Contract for ITS Traffic Incident Management (TIM) Program Transportation Management Centers (TMC's) Operations Staffing Support and Systems Engineering (SE) Statewide, LA	*Project Manager.*** Laurence was the overall project manager of this multi-year, $15,000,000 contract that included providing staffing support, developing Standard Operating Procedure Manuals, Traffic Incident Management program support, ramp meter feasibility and design, TMC Concept of Operations, ITS system requirement documentation and Systems Engineering Analysis and Documentation. Laurence coordinated with the LADOTD and TMC staff at the following TMC locations: LADOTD Headquarters Annex Building, Baton Rouge TMC on Harding, New Orleans, Shreveport, and Houma.
03/10 – 06/10	**Bonnet Carre Spillway Speed Study, New Orleans, LA	*Project Manager.*** LADOTD asked Laurence to analyze the existing speeds on this facility and various forms of enforcement to ensure safety. Laurence led our efforts for this project, which consisted of a speed study to provide data to the LADOTD managers to examine the current speed limit on the Spillway. We investigated other means of speed-limit enforcement, variable speed limits applicability, and managed lane options. 50%, 85%, and 95% speed analyses were performed with the speed data.
08/09 – 12/09	**I-12 Ramp Metering Public Outreach, Baton Rouge, LA	*Project Manager.*** Laurence prepared exhibits and 3-D models and facilitated three public meetings to educate the public about ramp metering and its implementation. Several stakeholder meetings were held to educate the elected officials and civic groups. Laurence gave a formal presentation at each meeting to describe the benefits of ramp meters and the project specifics.
07/08 – 07/11	**SPN 700-99-0413 Retainer Contract for ITS Transportation Management Centers	*Project Manager.*** Laurence was the overall project manager of this 3-year contract that included providing staffing support, developing Standard Operating Procedure Manuals, Traffic Incident Management program support, ramp meter feasibility and design, TMC Concept of Operations, ITS system requirement documentation and Systems Engineering Analysis and Documentation. Laurence coordinated with the LADOTD and TMC staff at the following TMC locations: LADOTD Headquarters Annex Building, Baton Roue TMC on Harding, New Orleans, Shreveport, and Houma.
01/07 – 08/07	**I-12 Ramp Metering Study, Baton Rouge, LA	*Project Manager.*** Under the ITS retainer contract, Laurence provided analysis and evaluations of potential ramp metering at six interchanges along this corridor. The scope also included analysis of existing traffic conditions, evaluation of proposed solutions, and creation of micro-simulation models of existing and proposed conditions. An existing micro-simulation model was obtained from LADOTD to analyze and visually represent the existing traffic conditions. The existing conditions model was calibrated and used as a base to develop models of ramp metering. Laurence presented the findings to LADOTD, including an overview map of the interchange area, a schematic of existing volumes, a Micro-simulation of the existing conditions, a summary table of LOS for existing conditions, micro-simulations of proposed solutions, and a summary table of LOS for each solution. Laurence also submitted a formal report of the findings.
03/06 – 10/06	**New Orleans Regional Transportation Management Center SEA	*Project Manager.*** Laurence served as the project manager for the Laurence ITS Design Team that handled the New Orleans Regional TMC project. Laurence provided the Systems Engineering Analysis (SEA) for the operations of the new TMC, which included a conceptual layout of the RTMC data, audio / video, personal computers, and computer equipment including wiring.

16. Staff Experience:

Vectura Consulting Services, LLC

Ronald St. Angelo Senior Inspector	**Years of experience with this firm/employer**	1
	Years of experience with other firm(s)/employer(s)	48

Degree(s) / Years / Specialization	High School Diploma / 1975		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Senior-level traffic signal construction specialist / Ronnie will provide support field inspection and testing.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
02/03 – 04/23	**Jack B Harper Electrical, LLC (Walker, LA)** Ronnie specialized in programming traffic signal controls / ITS equipment and troubleshooting construction issues in the field such as utility conflicts and traffic signal issues. He was a project manager for numerous traffic signal related projects and oversaw a team of field technicians for signal related construction projects. He was an estimator for bidding traffic signal / ITS equipment projects. Ronnie worked extensively throughout the state of Louisiana on hundreds of local, state, and federally funded traffic signal / ITS projects, to include major metropolitan areas, such as Greater New Orleans, Baton Rouge, and Lafayette. During this time, Ronnie worked projects that built intersections from the ground up, to include base / signal installation, signal control electrical installation, and signal termination. Read and interpreted construction plans to ensure proper installation requirements were met for span wire and mast arm installation. Extensive experience in installing all forms of traffic signals during all construction phases. Assisted site inspectors with confirming mast arm foundation locations; drawing reviews; change requests; and verifying controller data collection and timing checks.
07/75 – 01/03	**East Baton Rouge Traffic Engineering Division** Ronnie was a certified IMSA Level 1 & 2 Technician while employed at the City of Baton Rouge. Ronnie performed numerous construction tasks in relation to traffic signals within East Baton Rouge Parish. Construction included traffic signal poles, signal heads, signal wiring, vehicle detection, traffic signal controller / cabinet power service. In the earlier part of his career, the traffic signal controllers consisted of mechanical parts. As time progressed, the controller evolved to steady-state technology. In addition, Ronnie performed traffic signal tasks related to maintenance after damage from collisions or extreme weather. While employed in the city, Ronnie was tasked with maintaining over 300 signals that included LADOTD intersections. Ronnie started his career at the City of Baton Rouge as a Technician, then Traffic Signal Technician, then Foreman and finally a supervisor. Ronnie was also responsible for programming traffic signal controllers while at the City.

16. Staff Experience:

Anastasia Brenan Communications Group (ABC Group)

Mike Sasser

Communications Specialist / Engagement, Outreach, and Training Task Lead

Years of experience with this firm/employer	22
Years of experience with other firm(s)/employer(s)	18

Degree(s) / Years / Specialization	Bachelor of Science / 1980 / Mass Communications/Media / Florida State University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Mike will be the Task Lead for stakeholder engagement and outreach to promote buy-in of LADOTD's TSMO Program.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
05/20 – 04/22	**Louisiana Watershed Initiative Region 4, Lake Charles, LA | *Communications Specialist.*** Internal communications and public outreach for coordination of floodplain management responsibilities by federal, state, and local agencies. Developed a foundation of data, projects, policies, standards, and guidance within the region. Facilitated Regional Steering Committee meetings and provided community outreach and engagement support for the general public, key stakeholders, and area elected officials.
08/13 - Present	**Livingston Parish Fire Protection District 4, Walker, LA | *Communications Specialist.*** Comprehensive corporate communications and public outreach support for one of the largest fire protection districts in Louisiana. Responsibilities include strategic planning, development of communication tools that include websites, print collateral, videos, speeches, and presentations. Assisted the district in passage of a public referendum to increase the property tax millage to provide needed additional funding for the district.
05/09 – 11/15	**LADOTD-Geaux Wider (I-10) Baton Rouge, LA | *Public Involvement.*** Coordinated stakeholder communication and engagement activities associated with widening sections of Interstate 10 in East Baton Rouge Parish. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
02/12 – 11/15	**LADOTD-Geaux Wider (I-12) Baton Rouge, LA | *Public Involvement.*** Coordinated stakeholder communication and engagement activities associated with the widening of Interstate 12 in East Baton Rouge and Livingston Parishes. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
03/14 – 04/15	**LADOTD-Geaux South (I-49) | *Public Information Involvement.*** Coordinated stakeholder communication and engagement activities associated with the conversion of U.S. 90 to Interstate 49 in Lafayette Parish. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
03/15 – 10/18	**LADOTD-Essen Lane | *Public Involvement.*** Coordinated stakeholder communication and engagement activities associated with the widening of Essen Lane between Perkins Road and Interstate 10. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.

16. Staff Experience:

Anastasia Brenan Communications Group (ABC Group)

Stephanie Boh

Communications Specialist

Years of experience with this firm/employer	12
Years of experience with other firm(s)/employer(s)	21

Degree(s) / Years / Specialization	Master of Business Administration / 2006 / Business, University of New Orleans Bachelor of Arts / 2002 / Marketing / Louisiana State University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Stephanie will support stakeholder engagement and outreach to promote buy-in of LADOTD's TSMO Program.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
05/20 – 04/22	**Louisiana Watershed Initiative Region 4, Lake Charles, LA | Internal Communications and Public Outreach.** Internal communications and public outreach for coordination of floodplain management responsibilities by federal, state, and local agencies. Developed a foundation of data, projects, policies, standards, and guidance within the region. Facilitated Regional Steering Committee meetings and provided community outreach and engagement support for the general public, key stakeholders, and area elected officials.
08/13 - Present	**Livingston Parish Fire Protection District 4, Walker, LA | Communications and Public Outreach**. Comprehensive corporate communications and public outreach support for one of the largest fire protection districts in Louisiana. Responsibilities include strategic planning, development of communication tools that include websites, print collateral, videos, speeches, and presentations. Assisted the district in passage of a public referendum to increase the property tax millage to provide needed additional funding for the district.
05/09 – 11/15	**LADOTD-Geaux Wider (I-10) Baton Rouge, LA | Public Involvement.** Coordinated stakeholder communication and engagement activities associated with widening sections of Interstate 10 in East Baton Rouge Parish. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
02/12 – 11/15	**LADOTD-Geaux Wider (I-12) Baton Rouge, LA | Public Involvement.** Coordinated stakeholder communication and engagement activities associated with the widening of Interstate 12 in East Baton Rouge and Livingston Parishes. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
02/12 – 09/16	**LADOTD-Geaux Wider NOLA (I-10) | Public Involvement.** Coordinated stakeholder communication and engagement activities associated with the widening of Interstate 10 in Jefferson Parish. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.
03/14 – 04/15	**LADOTD-Geaux South (I-49) Public Information Involvement.** Coordinated stakeholder communication and engagement activities associated with the conversion of U.S. 90 to Interstate 49 in Lafayette Parish. Facilitated public meetings, briefings/presentations, and community surveys to promote the benefits of the multi-year construction program.

24-102

Section 17

17. Firm Experience:

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

Regional TSM&O Master Plans

Firm responsibility (prime or sub?)	Prime

Project number	N/A	**Owner's name**	Alabama DOT	
Project location	Statewide, AL	**Owner's Project Manager**		Jonathan Mills, Western Central Region TSMO Eng. and Phillip Day, P.E., North Region TSMO Eng.
Owner's address, phone, email	204 Marina Dr, Tuscaloosa, AL / 1525 Perimeter Pkwy NW, Huntsville, AL / Jonathan: 205.554.3260, Phillip: 256.505.4917 / millsj@dot.state.al.us; dayp@dot.state.al.us			
Services commenced by this firm (mm/yy)	12/15	**Total consultant contract cost ($1,000's)**		$165
Services completed by this firm (mm/yy)	01/17	**Cost of consultant services provided by this firm ($1,000's)**		$165

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 discipline(s) this project is being used to represent.

Gresham Smith developed TSM&O Master Plans for ALDOT's West Central Region and ALDOT's North Region. These projects included the development of a general project description, existing system description and needs analysis, deployment recommendations, project maps highlighting the areas of high traffic and safety hot-spots, existing deployments, proposed deployments and proposed diversion routes, a regional SEA, stakeholder meetings, and a TSM&O conceptual master plan, which incorporated all the elements listed above in one final document. These plans lay out an integrated program for ITS deployments, operations, and maintenance purposed to improve mobility and safety of the existing state and federal highway system and supporting infrastructure within ALDOT's West Central Region and North Region.

This document is a further continuation of statewide ITS plans, including the Statewide ITS Architecture and Statewide Strategic Business Plan. Taking elements from the aforementioned, it aims to further document needs, existing systems, and provide high-level actionable ITS designs that may be used to then program projects and secure funding. These plans aim to increase capacity, reduce congestion and improve safety and operational efficiencies through the use of several TSM&O strategies. It focuses on the areas of freeway and arterial management, emergency/incident management, special event management, traveler information, freight management, travel weather management, and work zone management.

Nature of firm's responsibility: Prime
Firm members involved: Kelly Morgan, Tait Karlson and Meredith Cebelak

17. Firm Experience:

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

TMC Operations, SOP's, Performance Measures & TIM Training/Guidelines				**Firm responsibility (prime or sub?)**	Prime
Project number	N/A	**Owner's name**	Alabama DOT		
Project location	Statewide, AL	**Owner's Project Manager**		Brett Sellers, P.E., State TSM&O Engineer	
Owner's address, phone, email	1409 Coliseum Blvd, Montgomery, AL / 334.242.6885 / sellersb@dot.state.al.us				
Services commenced by this firm (mm/yy)	10/13	**Total consultant contract cost ($1,000's)**		$265	
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$265	

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 discipline(s) this project is being used to represent.

Gresham Smith has been the provider of TMC operations and traffic incident management (TIM) support for ALDOT since 2014. Gresham Smith assisted ALDOT with developing statewide TMC standard operating procedures (SOPs), statewide performance measures, and TIM guidelines to be used as the overarching guidance for ITS operations and incident management policy at Alabama's four Regional Traffic Management Centers (RTMCs) in Birmingham, Montgomery, Tuscaloosa, Mobile and Huntsville. We also developed detour plans for Mobile, Montgomery and Birmingham as part of an Integrated Corridor Management (ICM) strategy. TMC performance measures were established to document how to assess the program starting with an initial baseline for comparison. Some of the TMC performance measures include incident clearance times, incident types, incident severity, network and field device availability, freeway mobility and financial performance metrics. Recognizing that the TMC needs change over time, Gresham Smith updates the SOPs as needed for each region as part of our TMC services contract with ALDOT.

Gresham Smith has hired, trained, and provided oversight for operations personnel for Alabama's four RTMCs. Gresham Smith's RTMC operations personnel carried out the primary functions of the RTMCs, which include traffic incident management, management of traffic during emergencies, management of traffic for planned special events, traveler information dissemination, coordination with ALDOT personnel and other local agencies, performance monitoring and reporting. Gresham Smith supported ALDOT with standardization of TMC processes and procedures; center-to-center coordination, coordination with departments within ALDOT and with other agencies, and coordination activities that support ALDOT's statewide and regional TSM&O Programs. Our team worked closely with RTMC and ALDOT staff to monitor performance measures for the traffic incident management program, identifying ways the RTMC can help in the reduction of response time, roadway clearance time, incident clearance time and number of secondary crashes. We also supported ALDOT with stakeholder outreach and engagement efforts to promote the RTMC; and in engaging the traffic incident management community to coordinate, communicate and cooperate effectively with the RTMC. Our support also includes providing SHRP2 TIM training to first responders across the state.

Nature of firm's responsibility: Prime | **Firm members involved:** Matt D'Angelo, Christina Florez, Kelly Morgan, Tait Karlson and Kendra McCoy.

17. Firm Experience

Gresham Smith	**Past Performance Evaluation Discipline(s)***	ITS

ITS Design and Implementation Services, WO #9: ITS Strategic Business Plan Update				**Firm responsibility (prime or sub?)**	Prime
Project number	H.013070.1	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana		**Owner's Project Manager**	Lucy Kimbeng, P.E., PTOE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.2528 / lucy.kimbeng@la.gov				

Services commenced by this firm (mm/yy)	06/17	**Total consultant contract cost ($1,000's)**	$92
Services completed by this firm (mm/yy)	03/18	**Cost of consultant services provided by this firm ($1,000's)**	$92

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

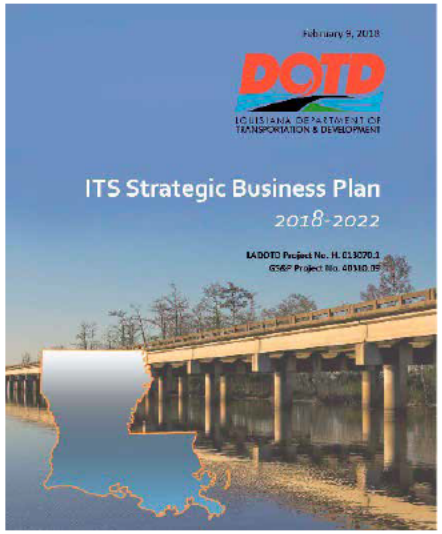
Gresham Smith was tasked with updating the LADOTD's ITS Strategic Business Plan. In preparation of the update, Gresham Smith conducted a Strategic Visioning Meeting with primary stakeholders to solicit input and goals relative to the strategic vision and direction of the ITS program.

The ITS Strategic Business Plan included the following 10 chapters:

- Executive Summary
- Louisiana ITS Vision
- Existing Conditions
- Benefit-Cost Analysis of the ITS Program
- Louisiana ITS Concept of Operations Summary
- Implementation Strategies and Recommended Priorities
- ITS Deployment Plan
- Financial Plan
- ITS Public Relations Strategy and Plan
- Next Steps

Project Highlights

- Project Management
- Stakeholder Workshops
- Benefit-Cost Analysis
- Deployment Plan
- Priority Recommendations



Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include Bert Moore, Christina Florez, Kendra McCoy.
Relevance: Planning (Perform ITS/Traffic Engineering Analyses)

17. Firm Experience:

Gresham Smith	**Past Performance Evaluation Discipline(s)***	Other (Grant Writing)

Grant Application Writing & Support Experience

Firm responsibility (prime or sub?)	Prime

Project number	N/A	**Owner's name**	Various	
Project location	Southeast United States	**Owner's Project Manager**		Jim Willis, Assistant Chief Engineer, MDOT
Owner's address, phone, email	401 North West St. Jackson, MS 39201 / 601.359.7001 / jcwillis@mdot.ms.gov			
Services commenced by this firm (mm/yy)	2013	**Total consultant contract cost ($1,000's)**		Varies
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		Varies

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

Navigating different funding sources, or even knowing they exist and are applicable, requires significant research and coordination. Gresham Smith has supported clients in both finding and applying for grants to fund multiple projects throughout the Southeast. We have secured over $270 million in grant funds for our Transportation clients in the last decade and awarded funds have ranged from $1 million to $71 million per grant.

Grants and funding we have secured include Congestion Mitigation Air Quality (CMAQ) Program, Competitive Highway Bridge Grants (CHBG), Community Development, Block Grants (CDBG), EPA State Revolving Fund – Clean Water and Drinking Water, Environmental Impact Bonds (EIB), FASTLANE / INFRA, Indiana ORCA, TDOT Multimodal Access, TDOT Transportation Enhancement, and TIGER / BUILD / RAISE.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Randy Battey, Camryn Jones, Meredith Cebelak and Kelly Morgan.

Client have included:

- Alabama DOT
- Arkansas DOT
- Bowling Green Municipal Utilities
- City of Flowood, MS
- City of Jackson, MS
- City of Jackson, TN
- City of Knoxville, TN
- City of Lebanon, TN
- City of Sparta, TN
- Jeff Davis County, MS
- Jefferson County, AL
- Lexington-Fayette Urban County Government
- Lincoln County, MS
- Marion County, MS
- Mississippi DOT
- Mississippi State University
- North Texas Municipal Water District
- Pearl River Valley Water
- Supply District
- Town of Smyrna, TN
- Tennessee DOT
- Walthall Counties, MS
- Winston County, MS

17. Firm Experience

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

I-24 MOTION Test Bed

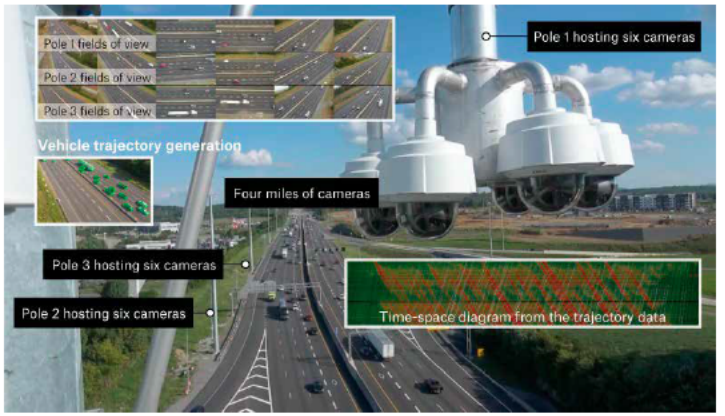
Firm responsibility (prime or sub?)	Prime

Project number	N/A	**Owner's name**	Tennessee DOT
Project location	Nashville, TN	**Owner's Project Manager**	Lee Smith, P.E.
Owner's address, phone, email	505 Deaderick Street, Suite 300, Nashville, TN / 615.253.6705 / lee.j.smith@tn.gov		

Services commenced by this firm (mm/yy)	03/20	**Total consultant contract cost ($1,000's)**	$439
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$302

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

The I-24 corridor between Murfreesboro and Nashville is the location of Tennessee's first Integrated Corridor Management (ICM) project known as the I-24 SMART Corridor. The I-24 SMART Corridor integrates freeway and arterial facilities with technology and operational strategies to actively manage traffic. TDOT established the I-24 Mobility Technology Interstate Observation Network (MOTION) Test Bed within the I-24 SMART Corridor to better understand how new vehicle automation technologies and operational approaches impact real world driving scenarios. The Test Bed is a first of its kind in the US and recently supported the largest CAV test ever conducted in live traffic.



TDOT's I-24 Test Bed includes a 40-pole camera system generating 4k resolution video that is processed to create anonymous vehicle trajectory data. The Test Bed provides a mechanism for TDOT to partner with the research community and industry to better understand how connected and automated vehicles (CAVs) influence driver behavior and analyze the interactions between CAVs and general traffic. The Test Bed will also provide TDOT with a deeper understanding of how to optimize strategies such as ICM to influence traffic behavior.

Gresham Smith developed the Systems Engineering Analysis report that defines the needs, requirements, and ITS Architecture for the Test Bed. Additionally, Gresham Smith designed the I-24 MOTION test bed field infrastructure and provided support through the procurement and construction phases. We also provided guidance on test bed best practices, big data management, deployment strategy, public relations, and a business plan.

Construction of this project was funded by a CMAQ grant that Gresham Smith successfully wrote for TDOT. Gresham Smith is now supporting test bed operations, including outreach and oversight of experiments with industry, other states and researchers.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Matt D'Angelo, Meredith Cebelak, Christina Florez, Kendra McCoy.
Relevance: CAV/Emerging Technology, Industry and University Partnerships

17. Firm Experience:

WSP USA Inc.	**Past Performance Evaluation Discipline(s)***	ITS, Planning, Traffic, Road, Other (Research)

AASHTO Transportation Operations Manual

Firm responsibility (prime or sub?) Prime

Project number	NCHRP 03-126	**Owner's name**	Transportation Research Board, National Cooperative Highway Research Program (NCHRP)
Project location	Washington, DC	**Owner's Project Manager**	Zuxuan Deng, Senior Program Officer, Transportation Research Board, Cooperative Research Programs zdeng@nas.edu | 202-334-2305
Owner's address, phone, email	The National Academies of Sciences, Engineering, and Medicine 500 Fifth Street, NW, Washington, DC 20001 zdeng@nas.edu | 202-334-2305		

Services commenced by this firm (mm/yy)	08/19	**Total consultant contract cost ($1,000's)**	$750K
Services completed by this firm (mm/yy)	10/22	**Cost of consultant services provided by this firm ($1,000's)**	$750K

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

WSP developed the first-ever Transportation Operations Manual for AASHTO that was balloted in fall 2022 and is set to be published in 2023. The nearly 700-page document provides a strategic context for TSMO; analyzes TSMO program planning and its relationship to agency project development and programming; and offers guidance on specific tactics that improve transportation operations when implemented in the field. Overall, the manual provides a holistic view of the operation and management of the transportation system. Its development relied upon an exhaustive compilation of effective industry practices, examples, and references to countless resources from FHWA, AASHTO, industry associations, public agencies at all levels government, and the private sector. Significant outreach was included. The manual also features comprehensive consideration of diversity, equity, and inclusion (DEI) throughout all chapters, ensuring that TSMO concepts, planning activities, programmatic considerations, and tactics duly incorporate our growing understanding of DEI issues in transportation delivery. The manual is envisioned as more than a one-time product. It is intended to play a key role in the transportation arena, evolve in its application to the TSMO user community, and be integrated within the overall transportation industry framework of guidance, eventually serving as an authoritative companion to the AASHTO Green Book and other accepted industry guidance. The manual is structured in five parts to allow different users to efficiently access the guidance they need when they need it and providing linkages among the parts:

- **Strategic including foundational concepts regarding the definition of TSMO**, basic operational concepts, functions, performance potential, business case arguments related to public policy, and stakeholder interests.
- **Programmatic focusing attention on key dimensions of an effective program** such as business and technical processes, organizational and workforce configuration, and collaboration.
- Project development recognizing that progress has often been hampered by challenges related to project development (in both traditional and TSMO projects). Key project development concepts include relationships to the capital program, the project development process, and funding.
- **Tactical encompassing the full range of TSMO strategies and supporting concepts**, **technologies**, and **procedures** that address recurring and nonrecurring causes of congestion, safety issues, and environmental impacts. The manual considers multiple modes and provides implementation information and effective practices.
- **Industry trends including the rapid introduction of new technologies** (e.g., CV, big data, AI) and evolution of TSMO-related institutions, business models, and concepts (e.g., MaaS, Smart Cities). While many of these trends are at early stages of development or at the cutting edge, they need to be acknowledged because they may significantly affect strategic, programmatic, and tactical aspects of the manual.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Reno Giordano, Les Jacobson, Scott Beck

17. Firm Experience:

WSP USA Inc.	Past Performance Evaluation Discipline(s)*	Planning, ITS

Kentucky Transportation Cabinet, Transportation System Management and Operations Program Plan (TSMO)	**Firm responsibility (prime or sub?)**	Prime

Project number	Letter Agreement #3 under Statewide Planning Services On-Call	**Owner's name**	Kentucky Transportation Cabinet (KYTC)		
Project location	Frankfort, KY		**Owner's Project Manager**	Stephen De Witte, P.E.	
Owner's address, phone, email	KYTC Division of Planning 200 Mero St., 4th Floor, Frankfort, KY 40622 stephen.dewitte@ky.gov, 502-782-5056				
Services commenced by this firm (mm/yy)		08/21	**Total consultant contract cost ($1,000's)**		$245K
Services completed by this firm (mm/yy)		06/23 (expected)	**Cost of consultant services provided by this firm ($1,000's)**		$245K

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

WSP has been at the forefront of planning for TSMO, developing TSMO strategic plans and TSMO program plans for several state DOTs. Through its Statewide Planning contract, WSP is currently completing a TSMO Program Plan for the Kentucky Transportation Cabinet. KYTC had been implementing an increased number of ITS projects and TSMO strategies in a relatively uncoordinated manner over the past several years. It also undertook an FHWA-led CMM workshop in 2019, and from subsequent discussions with WSP, determined that a TSMO Program Plan was necessary to increase the effectiveness of the program and TSMO outcomes. The goals of this project are to highlight how TSMO aligns with the mission of KYTC, help identify where TSMO currently exists in the cabinet (albeit under a different name) and support the integration and centralization of TSMO so that it becomes a part of the culture and supporting processes at KYTC, recognizing that TSMO benefits all areas of the state, both its large rural areas and metropolitan regions.

As of April 2023, a final draft of the plan has been approved, and several supporting implementation resources have been developed. Over the course of the project WSP:

- Identified a core internal TSMO Stakeholder Group & Champion for TSMO.
- Derived TSMO Strategic Objectives from the new Department of Highways Operations Plan.
- Developed 10 Programmatic Recommendations to meet KYTC's goals focusing on 1) foundational elements like training and outreach, 2) capital program elements like integrating TSMO into the planning and project development processes, and 3) other business processes such as asset management and data sharing.
- Created a Roadmap to implement the programmatic recommendations based on prioritization criteria (perceived highest impact for advancing TSMO and perceived highest level of effort to complete).
- Presented the above in a TSMO Strategic Plan and TSMO Business Plan.
- Developed near-term implementation materials including a TSMO training curriculum, factsheet on the role of MPOs in enhancing TSMO, and factsheet on the relationship between TSMO and ITS architecture.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Reno Giordano, Les Jacobson, Jason Stribiak

17. Firm Experience:

WSP USA Inc.	**Past Performance Evaluation Discipline(s)***	ITS, Planning, Traffic, Road, Other (Research, Transportation Modeling)

Federal Highway Administration Office of Operations IDIQ/Blanket Purchase Agreement (BPA)

Firm responsibility (prime or sub?)	Sub & Prime (BPA)

Project number	693JJ322A000006 (current BPA as prime)	**Owner's name**	Federal Highway Administration (FHWA)	
Project location	Vancouver, WA	**Owner's Project Manager**	James Mikell, Team Lead/Contracting Officer	
Owner's address, phone, email	USDOT | Federal Highway Administration, Office of Acquisition & Grants Management 610 E 5th Street, Vancouver, WA 98661 james.mikell@dot.gov, 360-619-7584			
Services commenced by this firm (mm/yy)	2010; 2016; 2022	**Total consultant contract cost ($1,000's)**	$2.95M (2016–2021); $1.48M (2022)	
Services completed by this firm (mm/yy)	2015; 2021; 2026 (BPA)	**Cost of consultant services provided by this firm ($1,000's)**	$2.95M (2016–2021); $1.48M (2022)	

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

WSP has been a major subcontractor on the FHWA Office of Operations IDIQ from 2010 to 2021 and now serves as prime contractor under the office's current 5-year BPA. As a subcontractor, we were actively engaged in 26 tasks, several of which are highlighted below, and are working on 4 tasks as prime. These task orders leveraged our work leading foundational research for the Strategic Highway Research Program (SHRP2) that identified the critical components of successful agency TSMO programs and applied the CMM to TSMO improvement. We then developed TSMO guidance and the CMM self-assessment process and tool under NCHRP Project 03-94 and used that to develop the CMM workshop concept, since applied in nearly every state DOT.

Building on this work in supporting FHWA's role to implement SHRP2 research, we supported over 30 CMM workshops under the FHWA task orders *Organizing for Operations Regional Workshops* and *Organizing for Reliability TSMO Workshops*, by contributing to development of the *Making the Business Case for Institutional, Organizational, and Process Changes for TSMO* guide and leading development of an NHI-based online training of the guide. We cofacilitated the *2020 Organizing for Operations Peer Exchange* resulting in a current accounting of state DOT and MPO operations advancements and challenges. We also worked in more specific, supporting practice areas such as in *Leveraging and Coordinating Technology Resources for TSMO*, where we developed helpful information, best practices, tools, and customized technical outreach to support agencies' IT-ITS/TSMO coordination. We have also led tasks on effective practices in other TSMO areas such as the application of active transportation and demand management strategies, managed lanes, traffic analysis tools, and TSMO asset management.

Our current task orders as prime include, among others, developing web-based training courses on TSMO 101, using the CMM, and conducting TSMO benefit-cost analysis and developing technical resources that share effective practices on leading-edge traffic management systems on behalf of TMC Pooled Fund Study members.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract. / Subconsultant; handling 26 task orders for TSMO
Firm members involved include: Reno Giordano, Les Jacobson, Scott Beck, Jason Stribiak

17. Firm Experience

Vectura Consulting Services, LLC	Past Performance Evaluation Discipline(s)*	ITS

Shreveport Immediate ITS Phase 2b				Firm responsibility (prime or sub?)	Sub
Project number	H.006474.1	**Owner's name**	LADOTD		
Project location	Shreveport, LA		**Owner's Project Manager**	Lucy Kimbeng	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.2528 / lucy.kimbeng@la.gov				
Services commenced by this firm (mm/yy)	03/18		**Total consultant contract cost ($1,000's)**		unknown
Services completed by this firm (mm/yy)	06/18		**Cost of consultant services provided by this firm ($1,000's)**		$18.302

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

As a sub-consultant, Vectura was the task leader for Procurement and Alternative Analysis Configuration portions of the Systems Engineering Analysis (SEA) that complied with Code of Federal Regulations (CFR), Title 23, 940.11). The Alternatives Analysis Configuration consisted of analyzing three possible project configurations. The pros and cons of the needed equipment and communication options were documented. This task consisted of a field visit with LADOTD staff to verify fiber optic lines, junction boxes and traffic signal controller types.

The Procurement task consisted of investigating the methods of procurement for the deployment project where the procurement options the pros and cons for each method were documented.

Nature of firm's responsibility: Subconsultant
Firm members involved include: Brin Ferlito and Laurence Lambert. (100% performed in Louisiana)

17. Firm Experience

Vectura Consulting Services, LLC	Past Performance Evaluation Discipline(s)*	ITS

I-110 ITS Deployment SEA

Firm responsibility (prime or sub?)	Sub

Project number	H.013261.1-1	**Owner's name**	LADOTD
Project location	Baton Rouge, LA	**Owner's Project Manager**	Alaa Shams
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.1497 / alaa.shams@la.gov		

Services commenced by this firm (mm/yy)	09/18	**Total consultant contract cost ($1,000's)**	unknown
Services completed by this firm (mm/yy)	12/18	**Cost of consultant services provided by this firm ($1,000's)**	$16.363

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

Vectura provided an Alternatives Analysis Configuration and Procurement Analysis as part of a System Engineering Analysis (SEA) for I-110 CCTV Cameras and DMS deployment to comply with Code of Federal Regulations (CFR), Title 23, 940.11.

The alternative analysis consisted of a field visit along the I-110 corridor to examine CCTV and DMS locations. As part of the field visit, drones were flown at the proposed heights of the CCTV's and DMS's to determine if any sight line issues were present. Also included in the site visit was the evaluation of connecting three pump stations and traffic signals to the proposed fiber optic line. Three possible project configurations were developed for this task along with pros and cons of the needed equipment and communication options.

Vectura also investigated the methods of procurement for the deployment project. Procurement options were documented with the identification of the pros and cons for each method.

Nature of firm's responsibility: Subconsultant
Firm members involved include: Brin Ferlito and Laurence Lambert. (100% performed in Louisiana)

17. Firm Experience

Vectura Consulting Services, LLC	Past Performance Evaluation Discipline(s)*	Traffic

EBR Computerized Traffic Signal, PH VB				Firm responsibility (prime or sub?)	Sub
Project number	H.007160	**Owner's name**	LADOTD		
Project location	East Baton Rouge, LA		**Owner's Project Manager**	Desmond Sam, P.E.	
Owner's address, phone, email	8100 Airline Highway, Baton Rouge, LA 70815 / 225.231.4123 / desmond.sam@la.gov				

Services commenced by this firm (mm/yy)	01/21	**Total consultant contract cost ($1,000's)**	$603.989
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$93.368

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

Vectura is a sub-consultant to provide traffic signal equipment inspection for 24 traffic signals under the following scope:

- Signal Equipment Inspection (2 visits per intersection), Tracking the Sampling and Testing of required Traffic Signal Materials / observe and Review Fiber Optic Test Results
- Coordinate Review and Approval of all Shop Drawings
- Provide Traffic Signal Support Services / Troubleshoot traffic signal equipment related problems such as foundation / utility conflicts / Field visits (10 months)
- Assist in preparing Change Orders for LADOTD / City Parish (2 Separate Forms)
- Attend Monthly Progress Meetings / Assist with Monthly Progress Meeting Agenda & Minutes (10)
- Compile As-built Plans from Contractor
- Final Inspection Field Visit to all intersections / Assist with developing punch list / Final Field Visit verification

Nature of firm's responsibility: Subconsultant
Firm members involved include: Brin Ferlito and Laurence Lambert. (100% performed in Louisiana)

17. Firm Experience

ABC Group	**Past Performance Evaluation Discipline(s)***	Other (Public Outreach)

Geaux Wider Public Information Support for I-10/12				**Firm responsibility (prime or sub?)**	Sub
Project number	N/A	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	East Baton Rouge and Livingston Parishes, LA		**Owner's Project Manager**	Rodney Mallett DOTD Communications Director	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 / 225.379.1243 / rodney.mallett@la.gov				
Services commenced by this firm (mm/yy)	05/09		**Total consultant contract cost ($1,000's)**		Unknown
Services completed by this firm (mm/yy)	11/15		**Cost of consultant services provided by this firm ($1,000's)**		$750

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

ABC Group provided comprehensive community outreach and public involvement/information support to the Louisiana LADOTD for the $750 million Geaux Wider construction program. The program widened I-10 from four to six travel lanes between the I-10/12 split and Highland Road; and I-12 from Satsuma Road to O'Neal Lane.

- Development of the public information plan
- Development the agency coordination plan
- Identification/notification of project stakeholders
- Facilitating public meetings.
- Community briefings and presentations
- Graphic design
- Public opinion surveys
- Website design, development, and maintenance
- Development of key messages
- Program branding
- Media relations
- Video production
- Project photography
- Social media communication and outreach

Nature of firm's responsibility: Subconsultant
Firm members involved include: Stephanie Boh and Michael Sasser

17. Firm Experience

ABC Group	Past Performance Evaluation Discipline(s)*	Other (Public Outreach)

Louisiana Watershed Initiative Region 4

Firm responsibility (prime or sub?)	Sub				
Project number	N/A	**Owner's name**	Louisiana Council on Watershed Management		
Project location	Lake Charles, LA		**Owner's Project Manager**	Edward D. Anthony III QES, Inc. (Prime Contractor	
Owner's address, phone, email	8385 Rushing Road, Denham Springs, LA 70726 / 225.698.1600 / eanthony@qesla.com				
Services commenced by this firm (mm/yy)	05/20		**Total consultant contract cost ($1,000's)**		Unknown
Services completed by this firm (mm/yy)	04/22		**Cost of consultant services provided by this firm ($1,000's)**		$66

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

The Louisiana Council on Watershed Management is tasked with empowering local jurisdictions and communities for implementation of regional, long-term solutions that follow watershed boundaries to reduce the risk of community flooding. The initiative serves as a model for maximizing the financial, intellectual, and governmental resources to ensure long-term sustainability and safety for all Louisiana residents.

ABC Group is assisting LWI Region 4 in coordinating floodplain management responsibilities across federal, state, and local agencies by building a foundation of data, projects, policies, standards, and guidance within the region. ABC Group personnel are facilitating Regional Steering Committee meetings and providing community outreach and engagement support for the general public, for key stakeholders and elected officials.

Central to the communications effort was design, development, and maintenance for the LWI Region 4 website, www.lwiregion4.com.

Nature of firm's responsibility: Subconsultant
Firm members involved include: Stephanie Boh and Michael Sasser

17. Firm Experience

ABC Group	**Past Performance Evaluation Discipline(s)***	Other (Public Outreach)

Livingston Parish Fire Protection District 4	**Firm responsibility (prime or sub?)**	Prime

Project number	N/A	**Owner's name**	Livingston Parish Fire Protection District	
Project location	Walker, LA	**Owner's Project Manager**	Robert Dugas Chairman of the Bord	
Owner's address, phone, email	9760 Florida Boulevard, Walker, LA 70785 / 225.664.7123 / rdugas@lpfpd4.com			

Services commenced by this firm (mm/yy)	08/13	**Total consultant contract cost ($1,000's)**	$400
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$400

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

ABC Group has provided public relations, marketing, and community outreach support for the Livingston Parish Fire Protection District 4 (LPFPD4) since 2013.

The firm collaborated with LPFPD4 leadership to develop and implement a comprehensive re-branding program that included a redesigned logo, a new department website, and social media presence. ABC Group also provides the district strategic planning, public relations, community outreach, digital marketing services, digital and print advertising, video production, and social media support.

Nature of firm's responsibility: Prime
Firm members involved include: Stephanie Boh and Michael Sasser

24-102

Section 18

18. Approach and Methodology:

Project Goals and Understanding

The Gresham Smith team has met with LADOTD staff and leadership to understand your goals and desired outcomes for project success. Transportation Systems Management and Operations (TSMO) is an opportunity for LADOTD to advance its vision for delivering a safe and innovative multimodal transportation system. TSMO offers proven strategies and solutions to sustain your mission for a safe and reliable transportation system that enhances mobility and economic opportunity while facing the challenges of aging infrastructure, increasing construction costs and building the LADOTD workforce of the future.

LADOTD has identified a $15B backlog in infrastructure needs in the midst of an inflationary market that has diminished the purchasing power to repair, replace and add new physical infrastructure. The transportation industry is also impacted by a workforce shortage while also needing to attract the talent to implement digital infrastructure solutions that require high demand expertise in cybersecurity, artificial intelligence, information technology, data sciences, broadband, as well as connected and automated vehicles (CAV). Louisiana's economic competitiveness is at risk if these challenges are not addressed.

LADOTD has a foundation delivering solutions in planning, design, access management, data-driven safety countermeasures, traffic engineering, signal systems, intelligent transportation systems, construction, asset maintenance, as well as research and development. TSMO has the potential to build on this foundation by leveraging LADOTD's broader workforce and talent across Sections and Districts to create new coordinated and collaborative solutions through both internal and external partners. This will require a culture change throughout LADOTD to overcome barriers such as varied priorities to catalyze transformative solutions across every aspect of LADOTD's business. The Gresham Smith Team has the experience and approach to assist the ITS section usher in this change.

Internal and external stakeholder buy-in will be essential, including communicating the benefits in straightforward and compelling outreach materials to the public, local agency partners, and elected officials. Securing broad stakeholder support for implementing a TSMO strategy will be critical to winning new discretionary grant funds to accelerate new TSMO project solutions and strategies to improve safety, mobility and reliability. The Gresham Smith team is your local partner to realize these outcomes through this TSMO Program IDIQ contract.

Our Plan to Deliver Outcomes

Project Management & Coordination

Gresham Smith will serve as prime consultant and provide all project management, coordination and project reporting. Our Project Manager, Christina Florez, offers the ideal combination of a 21-year TSMO veteran who is also intimately familiar with LADOTD'S IDIQ contracts, organizational structure and staff who will be project stakeholders. She has successfully delivered TSMO projects for LADOTD as well as other state TSMO programs that range from new to mature. She has worked closely with our team partners so there will be seamless coordination of work activities across all subconsultants so the right expertise is matched to any assignment under this IDIQ contract. She will be your single point of contact for all program, task order, and meeting coordination and will execute a project execution plan specific to this contract that minimizes the need for LADOTD staff time so that you can stay focused on mission critical activities that serve the public.

Securing Buy-In

Culture change will only happen if your TSMO Program consultant brings knowledge of the existing LADOTD structure, policy, and the unwritten rules that underpins how the agency operates day-to day. We are offering deep LADOTD institutional knowledge from former LADOTD leaders including Bert Moore, our Project Principal, Policy Task Lead, and former LADOTD District 61 Traffic Operations Engineer, along with Richard Savoie, a 34-

year LADOTD public servant and former Chief Engineer. Bert and Richard have intimate working knowledge of how both LADOTD's engineering and operations sections are organized and how they function. LADOTD staff trust Bert and Richard to be honest brokers for LADOTD, and that trust will be essential to the crucial conversations needed for TSMO buy-in during early engagement workshops and as new policies are crafted.

Change is challenging, so we are also bringing TSMO subject matter experts who have navigated these challenges successfully including Matt D'Angelo, our national TSMO leader. As our QA/QC lead, Matt will apply our quality process and procedures to all project deliverables. Matt will also incorporate creative TSMO approaches as an added value to this role. With experience working across the country for diverse clients, Matt understands that LADOTD TSMO strategy will need to recognize LADOTD's unique needs and constraints, such as having the fourth largest bridge area to maintain and operate in the country.

Baselining & Crafting a Strategy

The best solutions originate from diverse lived experiences overcoming challenges, so we have added WSP and their national bench of TSMO subject matter experts to our team. WSP literally wrote the book on the Capability Maturity Model (CMM) for FHWA establishing the process how agencies can organize and implement lasting TSMO programs. WSP has developed foundational documentation to establish successful TSMO programs for DOTs in New Hampshire, Nebraska, Kentucky, Minnesota, Oregon, and South Dakota. They have facilitated over 30 CMM workshops and created national TSMO guidance for AASHTO and FHWA. As a participant in the recent Operations Leadership Forum in Dallas, LADOTD staff saw firsthand the value that Les Jacobson brings as a facilitator with the pedigree as the TSMO architect in this country. Les Jacobson will lead the CMM Assessment so that LADOTD has a baseline of TSMO dimensions. Reno Giordano will lead the Strategic Plan Development and a clear path of how to implement a sustainable TSMO program that grows commensurately with LADOTD's capability. The Strategic Plan will incorporate internal stakeholder input gleaned from Bert and Richard to define actions of how TSMO can add value to all phases of the project delivery program. These early wins will be critical to galvanizing support for future strategies.

Elevate Stakeholders to TSMO Champions

While CCM assessments and the Strategic Plan are essential roadmaps for TSMO staff, effective engagement with internal partners, decision makers, elected officials, and the public will require easily digestible and concise materials that answers why TSMO is important and needed. Anastacia Brenan Communications Group (ABC) is bringing local media talent to our team to deliver high impact print, video, and social medial tools to promote and educate the public and stakeholders on the value of TSMO. ABC is a Louisiana registered DBE with local staff who have broad engagement experience with stakeholders including LADOTD's local agency partners. When combined with Gresham Smith's local trainers Richard Savoie and Kendra McCoy who have delivered training across LADOTD's organization and districts, our engagement team will build support for LADOTD'S TSMO program and provide training to reveal who will emerge as the champions critical to institutionalizing TSMO across LADOTD.

Mainstreaming TSMO as the way LADOTD Does Business

FHWA has documented use cases where agencies have applied TSMO strategies to operate their transportation infrastructure more effectively and efficiently. In essence, TSMO allows LADOTD to "sweat the asset" to squeeze every bit of capacity out of physical infrastructure while also elevating safety and mobility for all transportation users. TSMO strategies can be considered in rural and urban settings, especially where congestion is present and enhanced safety, traveler information and operations are needed. While TSMO strategies can be standalone projects, they are just as valuable in situations where adding capacity is the best option and TSMO can extend the performance life of capital projects. The Gresham Smith team will support LADOTD with connecting these dots for implementing TSMO strategies. Meredith Cebelak will serve as our task lead for TSMO strategies and project support. She has extensive experience developing project scopes and delivering TSMO designs and plans across limited access and signalized facilities, as well as extensive freight operations and data analytics experience. Additionally, she will be supported by WSP TSMO veterans as well as local DBE partner Vectura who have supported LADOTD with implementation of ITS and traffic engineering projects that support TSMO outcomes.

TSMO incorporates ever-changing technology and expanding data sources, so emerging solutions are often implemented through TSMO projects. Meredith is a big data expert who also recently planned, secured grant funding, and designed the I-24 MOTION open road test bed that recently hosted the largest CAV test ever conducted. I-10 is one of the early corridors targeted for automated truck shipments, and Meredith has the ideal background to prepare LADOTD for this new vehicle type.

Understanding how to best plan and implement CAV needs to be rooted in real-world deployment and standards development experience, as experts such as Matt D'Angelo and Frank Perry (WSP) have done across the country with operational connected vehicle infrastructure and applications that go beyond pilots. Matt recently supported ITE with USDOT's Connected Intersections project that established the national interoperability

requirements vehicle manufacturers will require from LADOTD to support in-vehicle alerting. WSP has supported the multi-state Connected Vehicle Pooled Funds Study with Connected Traffic Control System Research Planning and Concept Development. Together, our team is connected into the state of the practice necessary to implement emerging TSMO solutions.

TSMO strategies are most effective when identified as early as possible in a project lifecycle and remain relevant through the entire project delivery cycle of planning, design, construction, maintenance and operations. In order to mainstream TSMO approaches, incorporating TSMO considerations into project delivery policies is a key step that will be guided by our Policy task lead, Bert Moore and supported by Richard Savoie. Bert and Richard's LADOTD stakeholder relationships will be critical to incorporate diverse LADOTD perspectives into the consensus needed to develop implementable TSMO polices. Policies are often living resources, so having local access to Bert and Richard will be critical for TSMO continuity as new leadership and staff join LADOTD. Bert will be supported by team members from Gresham Smith and WSP who have crafted TSMO policies for other states across the country.

Making the Business Case for TSMO

Demonstrating accountability through quantifiable performance measures is essential to sustaining support for new TSMO programs. While TSMO strategies consistently demonstrate higher return on investment than capacity projects, leadership and decision makers will need a data-driven approach to clearly see the benefit-cost of TSMO strategies when compared against traditional projects for funding decisions. This process will continue through the life of a TSMO project as any new digital infrastructure will require operations and maintenance funding support. Our Funding and Benefit Cost Analysis lead, Meredith Cebelak, knows how to make the business case for TSMO strategies with state and federal decision makers. She recently developed the benefit-cost analysis that secured CMAQ funding for TDOT's I-24 MOTION open road test bed.

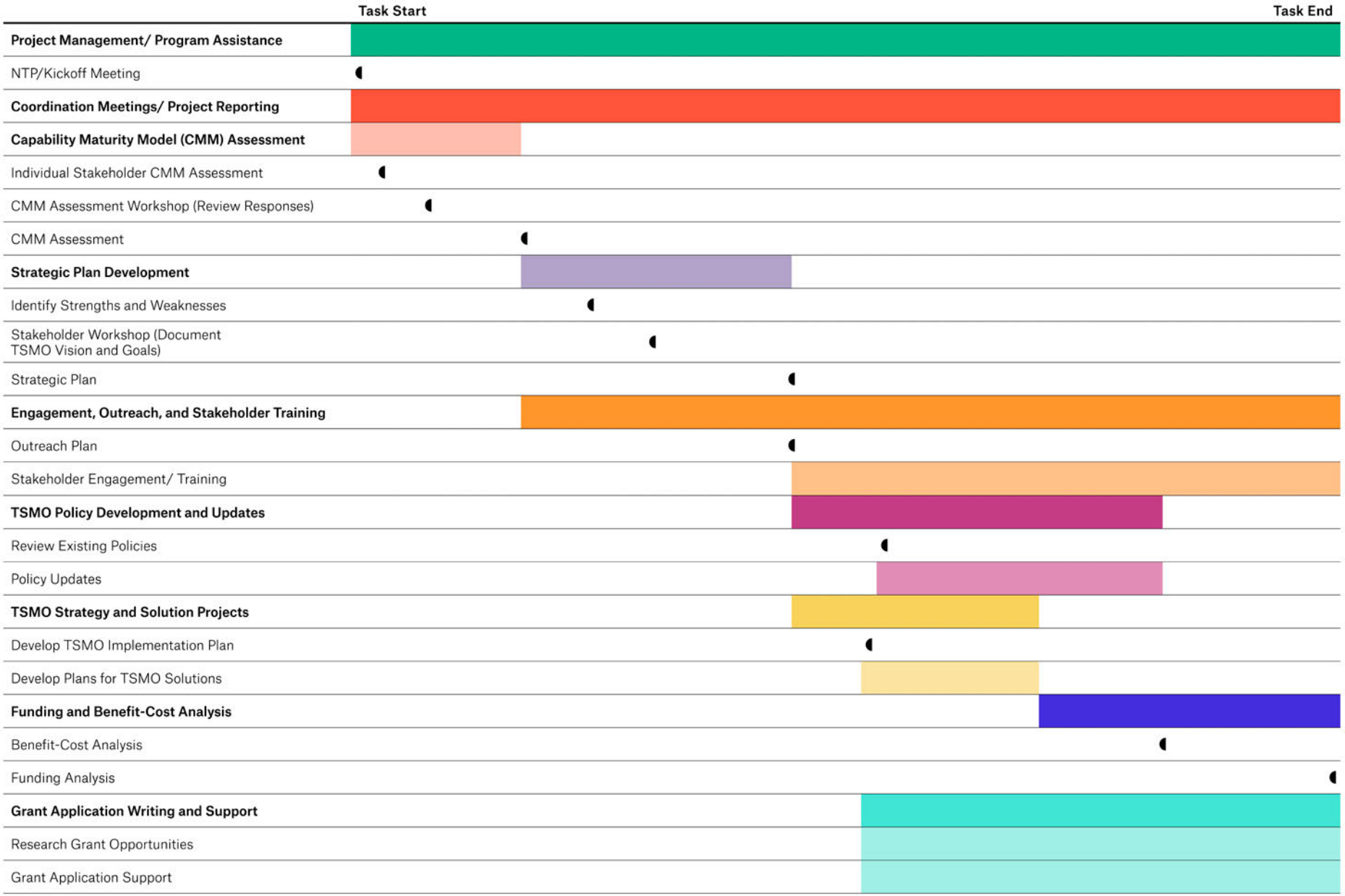
Securing New Funding for Louisiana

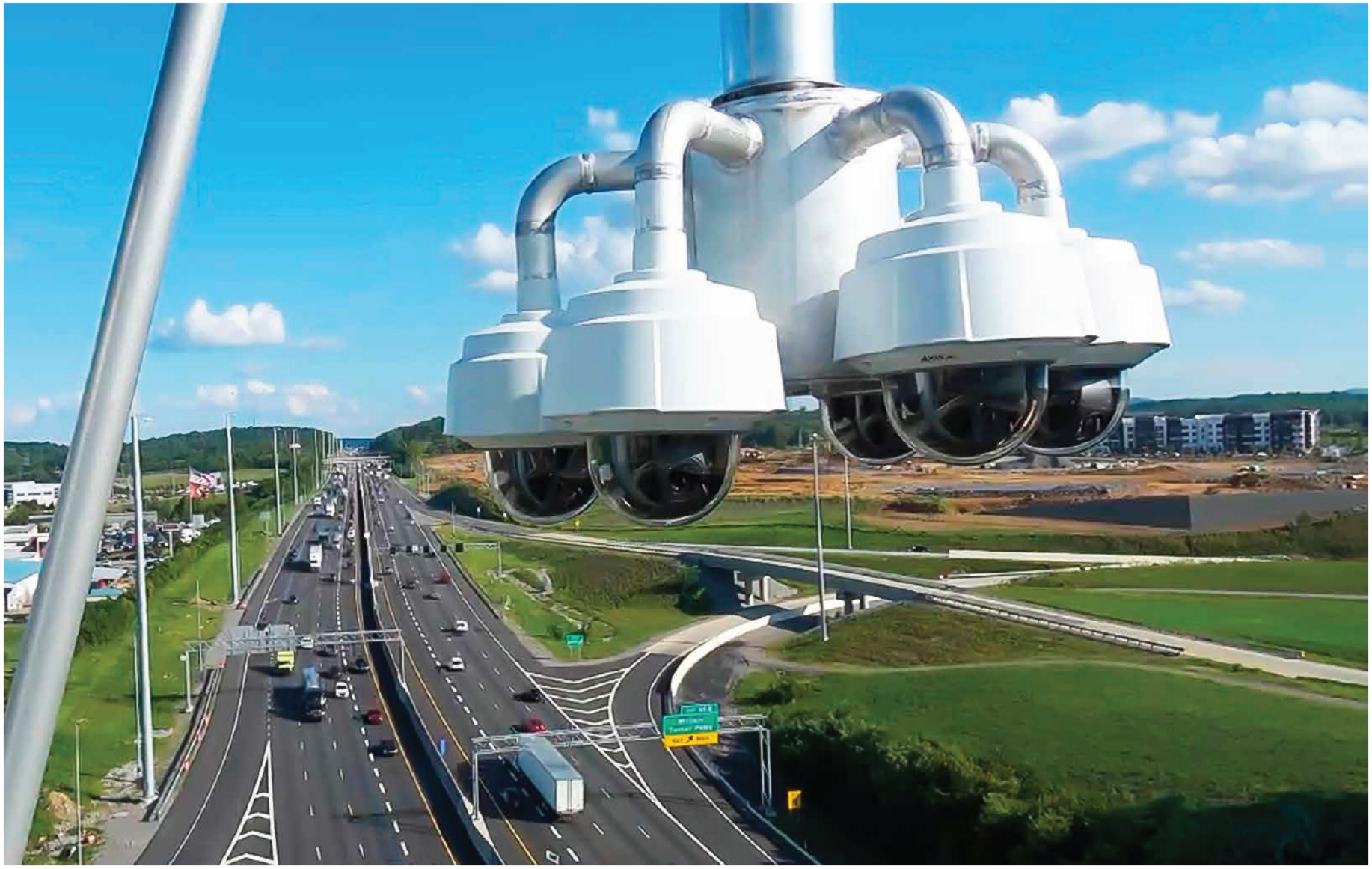
One of the most compelling motivations for establishing a TSMO program is that it opens the doors for new sources of transportation project funding. The Bipartisan Infrastructure Law established new annual discretionary grant programs that are ideally suited for TSMO solutions such as RAISE, Reconnecting Communities, PROTECT, the Congestion Relief Program, ATTAIN, AID, and Strategic Innovation for Revenue Collection. These grants favor project proposals that feature multi-agency stakeholders, innovative approaches, new technologies, and engagement of private industry partners. Gresham Smith is well-known in the southeastern U.S. for our success rate in grant writing. Recently, 12 out of 39 applications prepared by Gresham Smith for agencies have been successful in receiving funding. That is a success rate of approximately 31% compared to a national average that is around 10%. Over the past decade, our Grant Support task lead, Randy Battey, is proud to have assisted agencies in obtaining over $270 Million in additional federal funding for transportation improvement projects. We have the proven experience to not only apply for grant funding, but successfully match projects with the correct grant application. Since 2009, WSP has helped clients secure over $30 billion in federal grants for over 140 projects nationwide from a variety of discretionary programs, and nearly $3 billion from subsidized federal loan and credit assistance programs." We will apply the same resolve to proactively identify and secure grant opportunities to accelerate funding of LADOTD's TSMO program.

Sample IDIQ Task Order Schedule

The sample IDIQ schedule illustrates a potential timeline for the tasks currently defined in the Scope of Services combined in one task order. Some of the tasks are dependent upon predecessor tasks being completed. For instance, the CMM Assessment must be completed prior to the development of the Strategic Plan. Other tasks, while having staggered start dates, may run concurrently; these tasks include engagement, outreach, stakeholder training, policy development and updates, TSMO strategy and solution projects, funding and benefit-cost analysis and grant application writing and support. The sub-tasks shown are representative of key milestones to be completed.

Example Schedule





24-102

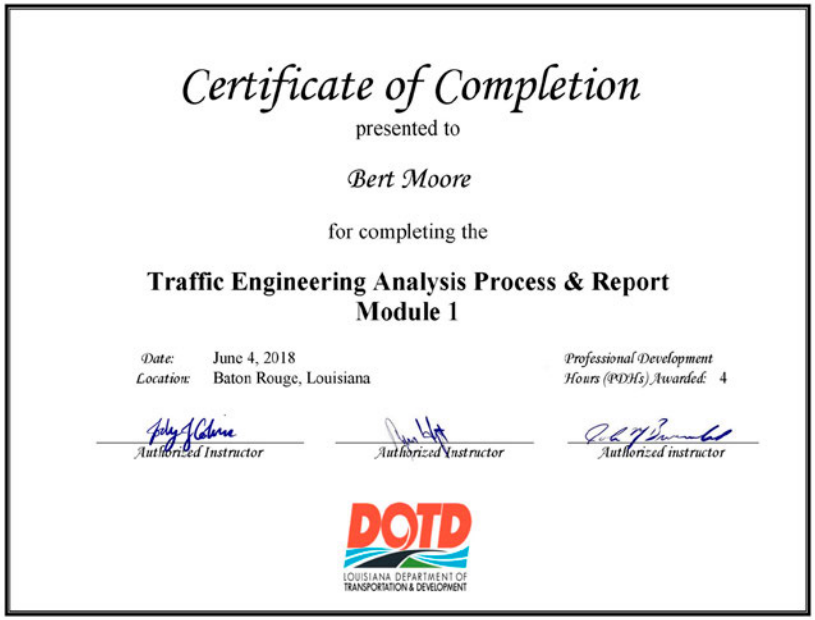
Sections 19-23

19. Workload:

Firm All firms must be represented in this table	Past Performance Evaluation Disciplines(s) *	Contract Number & State Project Number	Project Name	Remaining unpaid balance**
Gresham Smith	Traffic	4400005890 H.12018.5	Lafayette Adaptive Traffic Signals	$122,289
Gresham Smith	Road	4400005894 H.013271.5-2	LRSP/SRTS Tangipahoa Striping and Signage	$7,414
Gresham Smith	CE&I/OV / ITS	4400011253 H.011500.6	Lake Charles ITS Phase 3	$52,431
Gresham Smith	CE&I/OV / ITS	4400011253 H.012381.6-2	Fiber Optic Mapping and Management Services – Lafayette, West Baton Rouge, point Coupee, St. Landry and Rapides	$10,751
Gresham Smith	Bridge	4400013322 H.009730.5	Complex Bridge Inspection TO#4	$35,750
Gresham Smith	Bridge	4400013322 H.009730.5	Complex Bridge Inspection TO#5	$3,177
Gresham Smith	Bridge	4400013322 H.009730.5	Complex Bridge Inspection TO#6	$9,831
Gresham Smith	Bridge	4400013322 H.009730.5	Complex Bridge Inspection TO#7	$357,427
Gresham Smith	Road	4400019871 H.013720.5	LRSP Signs and Stripping - Bonner Street Bridge Pedestrian Improvements	$9,266
Gresham Smith	Road	4400019871 H.013767.5	LRSP Signs and Stripping - St. Landry and St. Martin Parishes	$4,223
Gresham Smith	Road	4400019871 H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$55,731
Gresham Smith	Traffic	4400019871 H.015086.5	LRSP/STRPPP LA 14	$168,792
Gresham Smith	Road	4400019871 H.015205.5	LRSP/STRPPP McMillian Road Pedestrian Improvements	$6,495
Gresham Smith	CE&I/OV	4400013851 H.009308.6	TO#1 New Orleans DPW SRTS Sidewalk Project	$2,937
Gresham Smith	CE&I/OV / ITS	4400024424 H.013256.6	I-10 Scott to Lake Charles ITS CEI	$193,473
WSP USA Inc. (WSP)	Bridge	H.010565.5	ELEC. & MECH. ENG. ON CALL TO4	$5,001
WSP USA Inc. (WSP)	Bridge	H.972249	ELEC. & MECH. ENG. ON CALL TO5	$24,921
WSP USA Inc. (WSP)	Bridge	H.010253.5	ELEC. & MECH. ENG. ON CALL TO6	$9,888
WSP USA Inc. (WSP)	Bridge	H.010251.5	ELEC. & MECH. ENG. ON CALL TO8	$6,281
WSP USA Inc. (WSP)	Bridge	H.010253.5	ELEC. & MECH. ENG. ON CALL TO9	$153,373

Firm All firms must be represented in this table	**Past Performance Evaluation Disciplines(s) ***	**Contract Number & State Project Number**	**Project Name**	**Remaining unpaid balance****
WSP USA Inc. (WSP)	Bridge	H.010253.5	ELEC. & MECH. ENG. ON CALL TO10	$21,303
WSP USA Inc. (WSP)	Bridge	H.004791	Belle Chasse Bridge & Tunnel	$357,712
WSP USA Inc. (WSP)	Bridge, CEI	H.004791	Belle Chasse Tunnel Inspection	$26,432
WSP USA Inc. (WSP)	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call TO1	$261,258
Vectura Consulting Services, LLC	Traffic	H.012030.5	KCS RR Overpasses HBI	28,026
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	120,664
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	15,067
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	124,383
Vectura Consulting Services, LLC	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	47,412
Vectura Consulting Services, LLC	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	14,740
Vectura Consulting Services, LLC	ITS	H.011504.5	Alexandria ITS Phase 2	14,305
Anastasia Brenan Communications Group	No active contracts with LADOTD	No active contracts with LADOTD	No active contracts with LADOTD	No active contracts with LADOTD

20. Certifications/Licenses:



Certificate of Completion

presented to

Bert Moore

for completing the

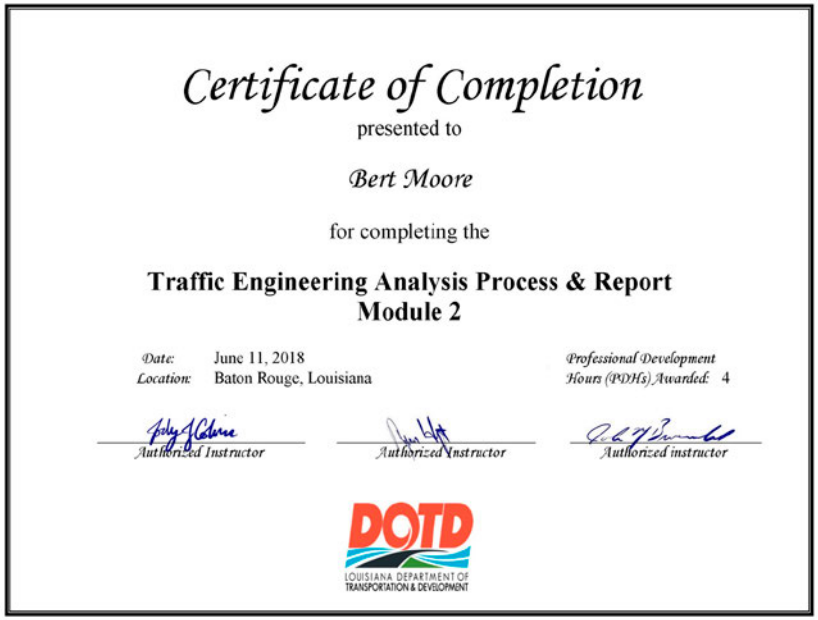
Traffic Engineering Analysis Process & Report
Module 1

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

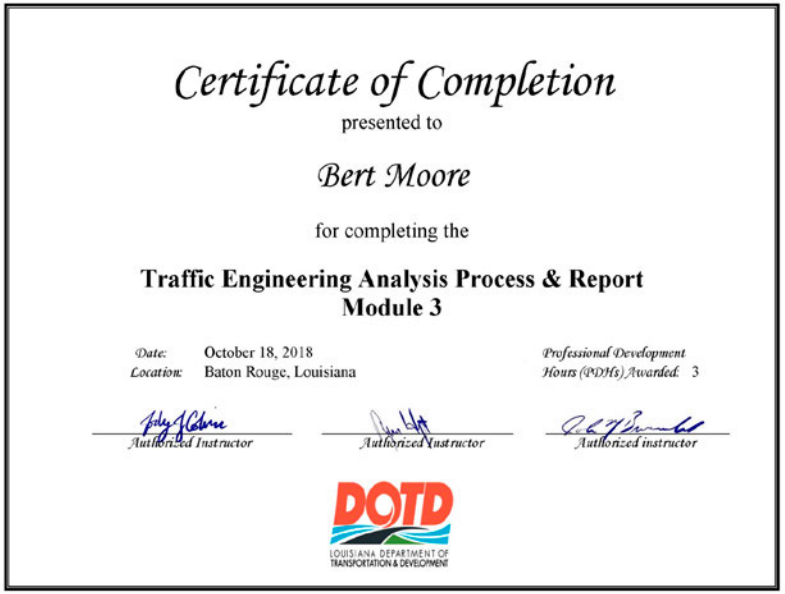
Traffic Engineering Analysis Process & Report
Module 2

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

Certificate of Completion

presented to

Christina Florez

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

Christina Florez

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

Christina Florez

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Christina Florez
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/5/2021 to 4/5/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Training

this certifies that

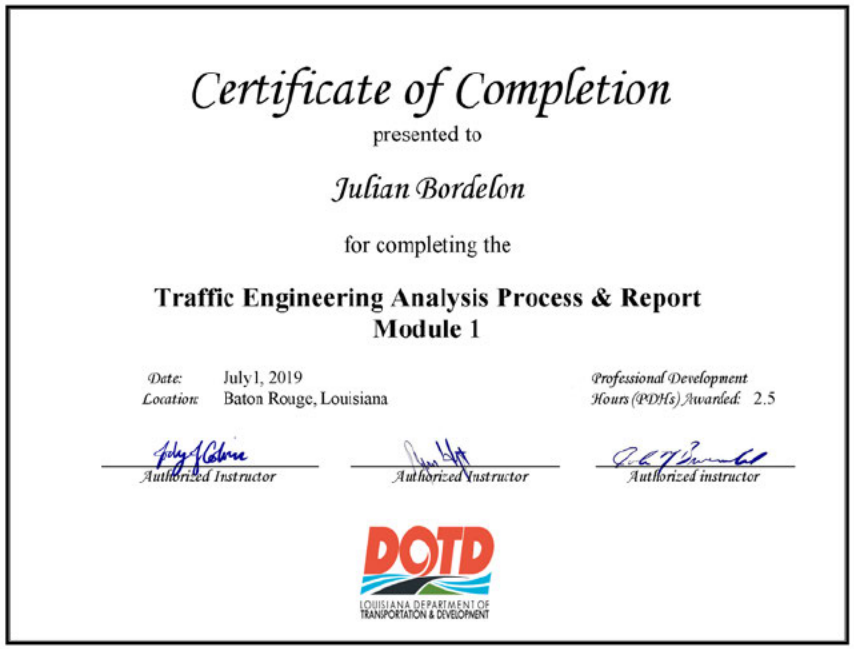
Christina Florez

has successfully completed the training program requirements for

National Flagger Certification Training Course

Awarded on this **13th** *day of* **June 2022**

This certificate is valid for 30 days from the date awarded.



Certificate of Completion

presented to

Julian Bordelon

for completing the

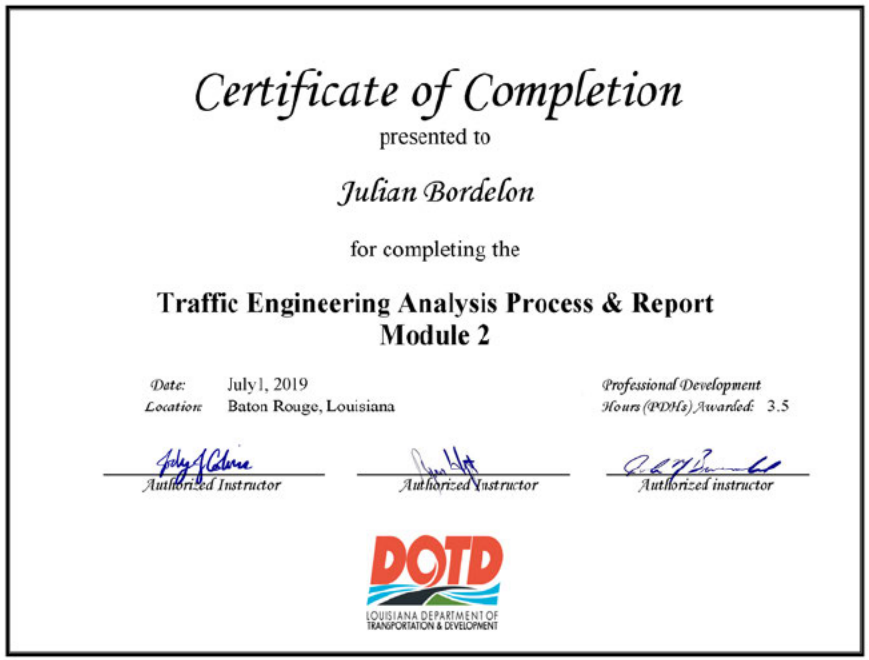
Traffic Engineering Analysis Process & Report
Module 1

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

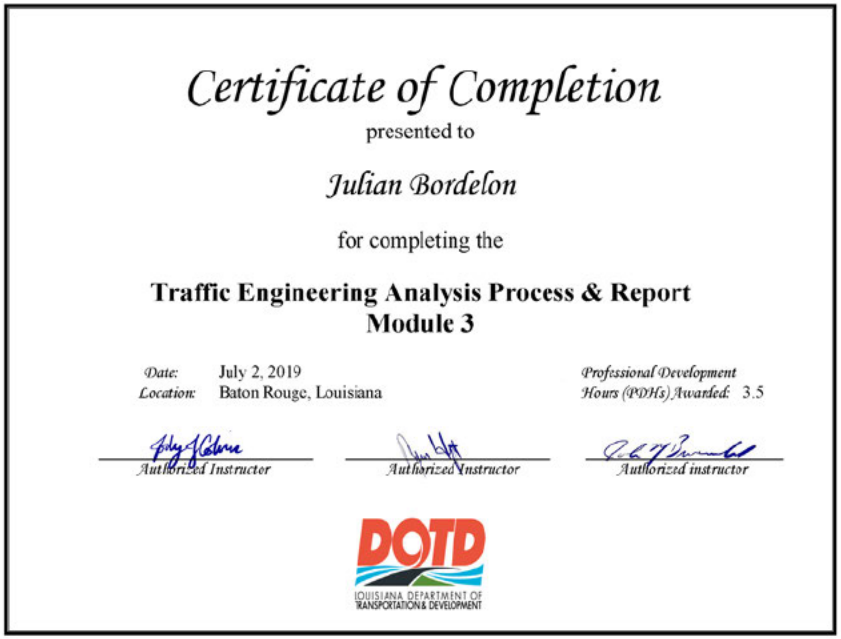
Traffic Engineering Analysis Process & Report
Module 2

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

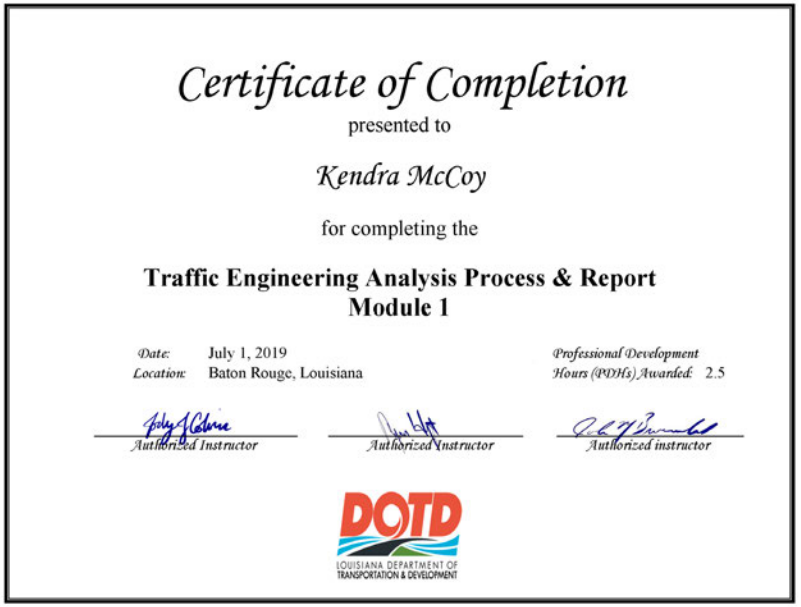
Traffic Engineering Analysis Process & Report
Module 3

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



Certificate of Completion

presented to

Kendra McCoy

for completing the

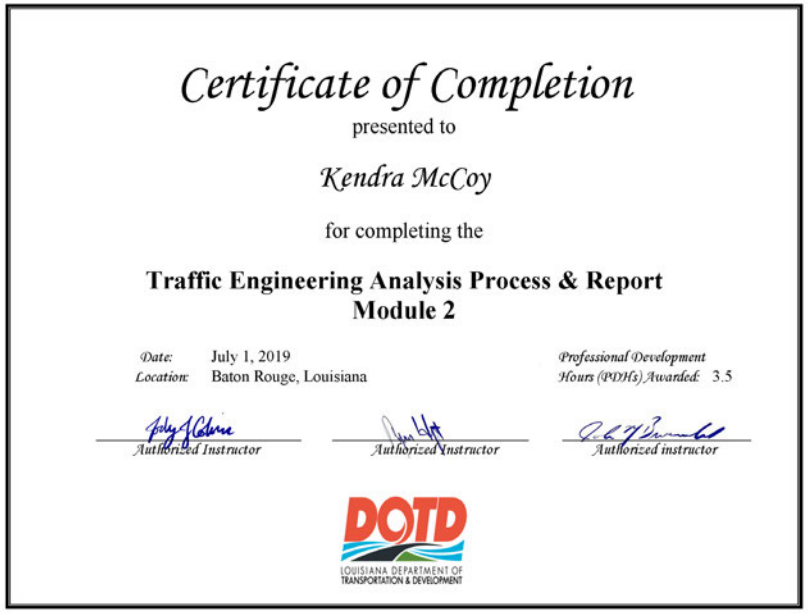
Traffic Engineering Analysis Process & Report
Module 1

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

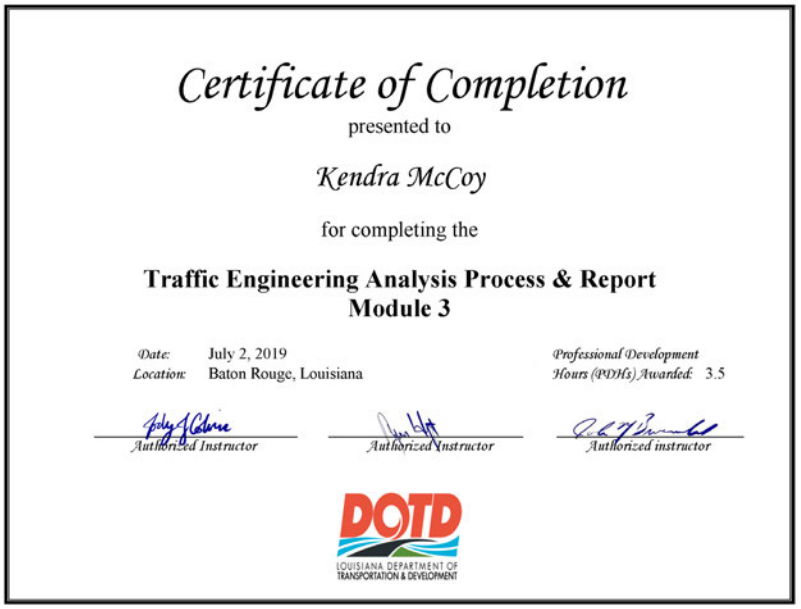
Traffic Engineering Analysis Process & Report
Module 2

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

Daniel R. Knott
is hereby certified as a

Traffic Signal Inspector
by completing all requirements and examination for certification
on 9/29/2021

Valid thru 9/29/2024
Certification #SI_60319

Toby Cummings, CAE - Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Daniel Knott
has attended
Traffic Control Supervisor-LA State Specific
Training Course

12/15/2021 to 12/16/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Daniel R. Knott
is hereby certified as a

Traffic Signal Construction Tech. Level II
by completing all requirements and examination for certification
on 9/29/2021

Valid thru 9/29/2024
Certification #BC_60319

Toby Cummings, CAE - Executive Director

Daniel R. Knott
is hereby certified as a

Traffic Signal Inspector
by completing all requirements and examination for certification
on 9/29/2021

Valid thru 9/29/2024
Certification #SI_60319

Toby Cummings, CAE - Executive Director

Daniel R. Knott
is hereby certified as a

Traffic Signal Field Technician Level II
by completing all requirements and examination for certification
on 9/29/2021

Valid thru 9/29/2024
Certification #BE_60319

Toby Cummings, CAE - Executive Director

Daniel R. Knott
is hereby certified as a

Traffic Signal Field Technician Level II
by completing all requirements and examination for certification
on 9/29/2021

Valid thru 9/29/2024
Certification #BE_60319

Toby Cummings, CAE - Executive Director

CERTIFICATE

OF COMPLETION

Fiber Optic Design, Installation and Maintenance Course

This is to Certify that

Daniel Knott

has completed a four-day seminar on design, installation and maintenance of fiber optic communications systems that consisted of twelve hours of classroom instruction on physical plant, four hours on system design and sixteen hours of hands-on training. Fiber, cable, and patch panel preparation, connectorization of SC and LC connectors, splicing, OTDR and optical loss testing were accomplished in the hands-on labs.

LIGHT BRIGADE

INSTRUCTOR

181103 — COURSE NUMBER

Nov 6-9, 2018 — COMPLETION DATE

Event Code OV-AFL-WA-0517-2; BICSI ITS CECs: 30

ATSSA — SAFER ROADS SAVE LIVES

American Traffic Safety Services Association

This is to affirm that

Daniel Knott

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 6/21/2022

Exp. Date 6/20/2026

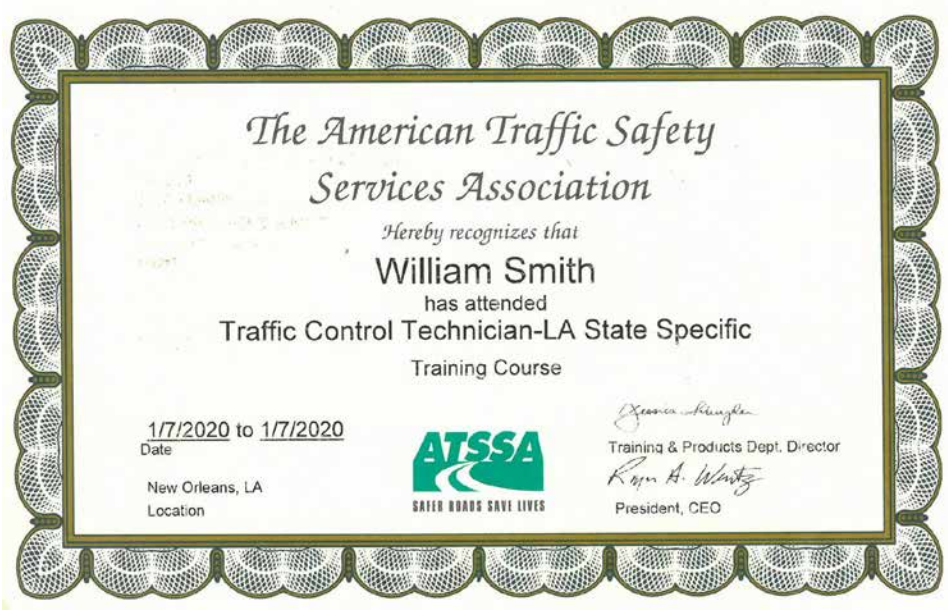
State Issued LA

ATSSA
Instructor Name

Instructor Signature

A1000083261

Verify at Flagger.com



The American Traffic Safety Services Association

Hereby recognizes that

William Smith

has attended

Traffic Control Technician-LA State Specific Training Course

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

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Certificate of Training

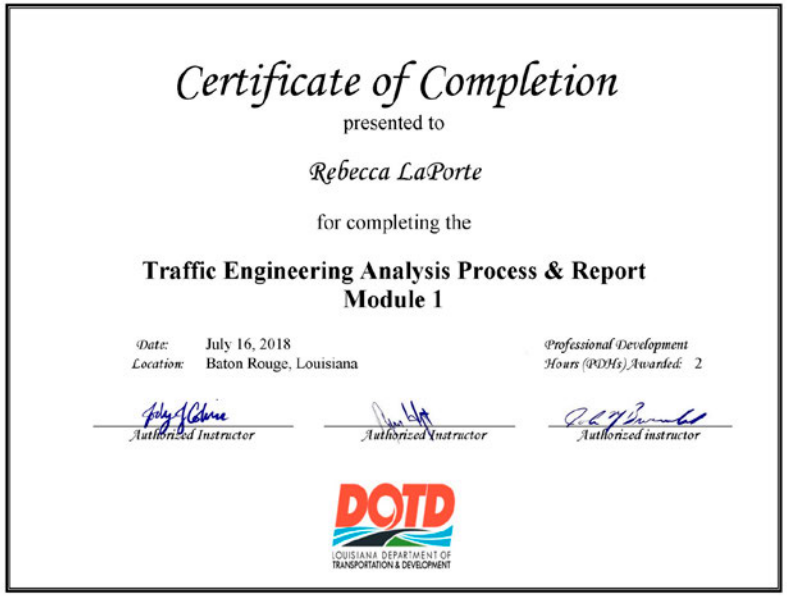
this certifies that

william smith

has successfully completed the training program requirements for

Online Flagger Certification Training Course

Awarded on this 3rd day of January 2020



Certificate of Completion

presented to

Rebecca LaPorte

for completing the

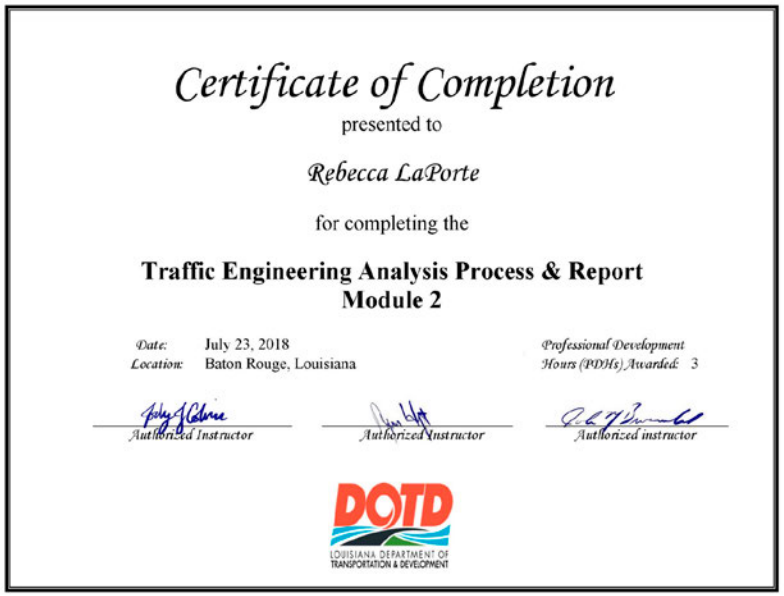
Traffic Engineering Analysis Process & Report
Module 1

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

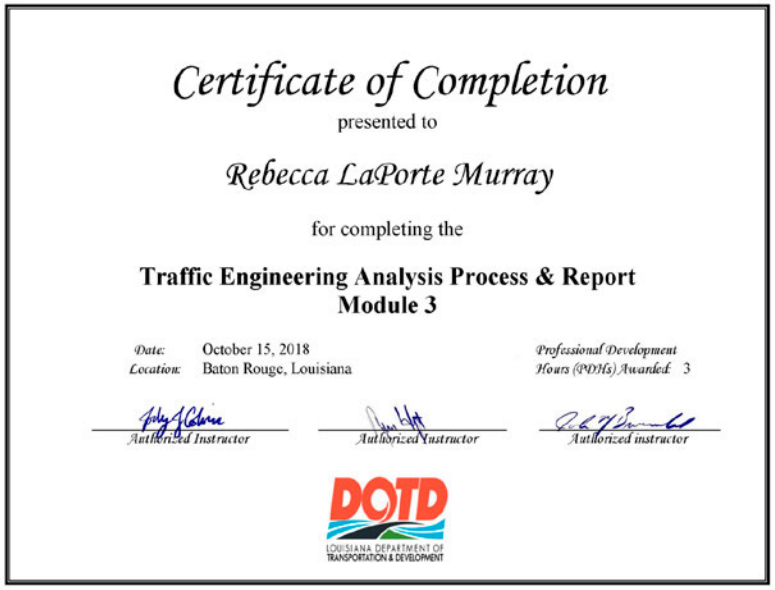
Traffic Engineering Analysis Process & Report
Module 2

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 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 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

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

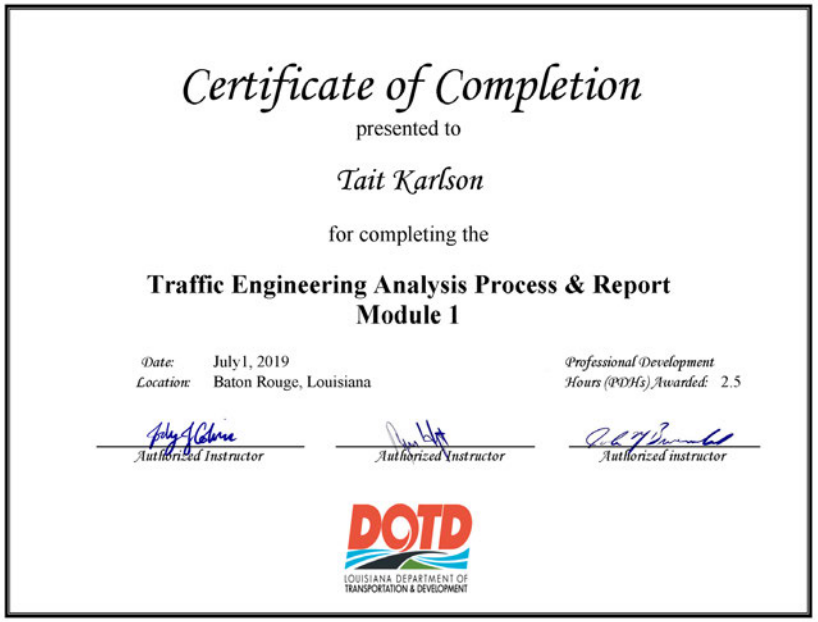
has satisfied the requirements to be designated as a

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



Certificate of Completion

presented to

Tait Karlson

for completing the

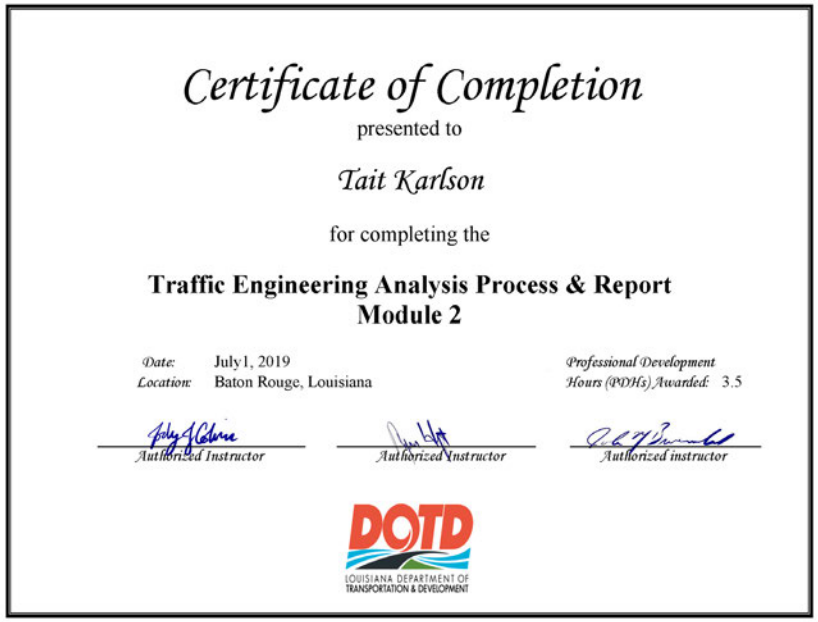
Traffic Engineering Analysis Process & Report
Module 1

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

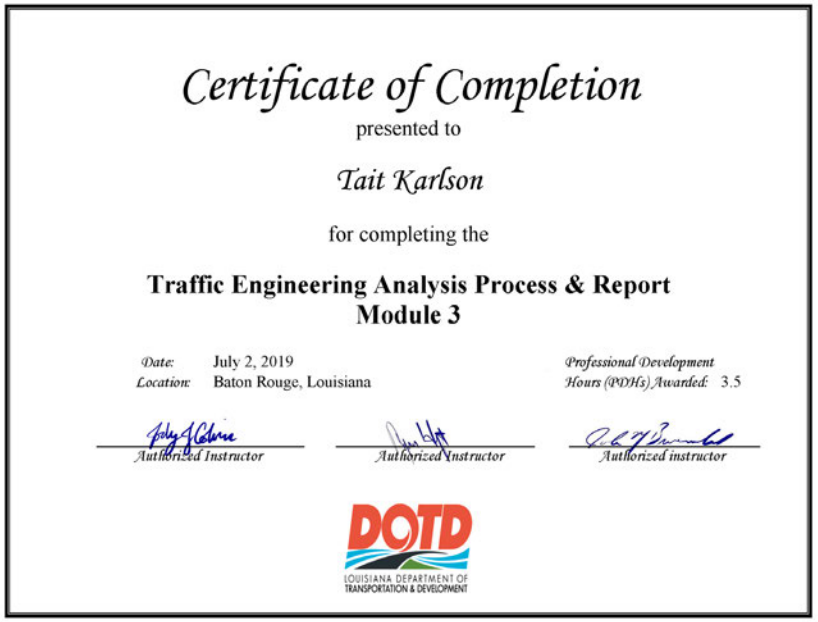
Traffic Engineering Analysis Process & Report
Module 2

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



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

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Vectura Consulting Services, LLC

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

NC488490, NC541330, NC541340

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

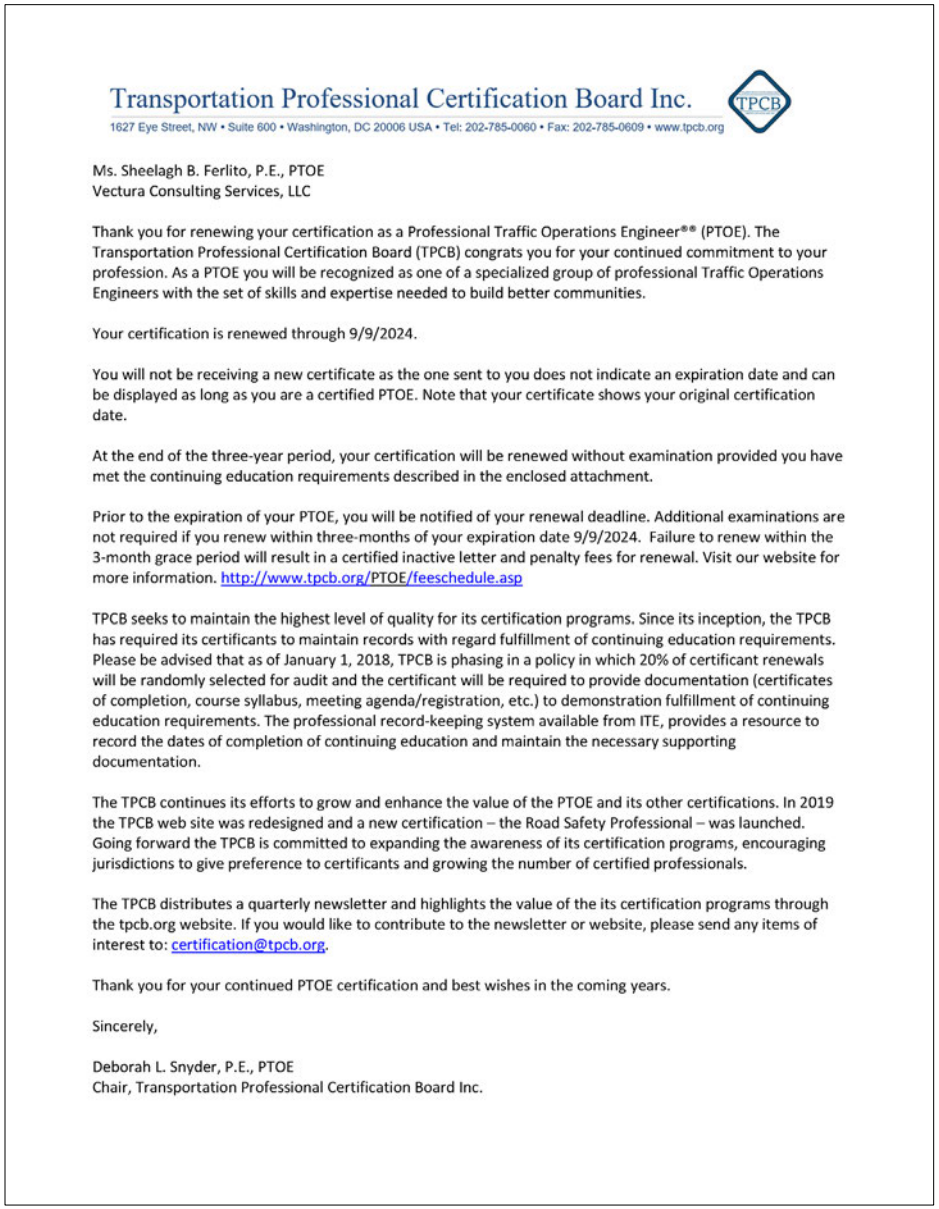
Certificate Eligibility: June 2022 to June 2023

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



Transportation Professional Certification Board Inc.

TPCB

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

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

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

Your certification is renewed through 9/9/2024.

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

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

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

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

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

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

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

Sincerely,

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

Transportation Professional Certification Board Inc.

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

Mr. Laurence L. Lambert, II, P.E., PTOE, PTP
Vectura Consulting Services, LLC
PO Box 14289
Baton Rouge, LA 70898-4269 USA

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

Your certification is renewed through 2/3/2025.

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

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

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

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

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

Sincerely,

Deborah L. Snyder

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

Transportation Professional Certificatic

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • I

Mr. Reece J. Rodrigue, P.E., PTOE
Vectura Consulting Services, LLC

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

Your certification is renewed through 7/17/2025.

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

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

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 7/17/2025. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. http://www.tpcb.org/PTOE/feeschedule.asp

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

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

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

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

Sincerely,

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

Transportation Professional Certification Board Inc.

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

Kristen Alice Gahagan
Buchart Horn, Inc.
728 Hesper Ave
Metairie, LA USA 70005

It is my pleasure to inform you that you have passed the written examination and are certified as a *Professional Traffic Operations Engineer*® (PTOE). As a PTOE you will be recognized as one of a specialized group of traffic operations engineers with the set of skills and expertise needed to successfully solve and implement traffic solutions and create better communities.

The Certification Board previously determined you met all other requirements for certification. If there is no balance due on the attached invoice you may now use the title Professional Traffic Operations Engineer® and/or the initials PTOE in the conduct of your professional practice. If payment is outstanding, you must pay the balance due and only then are you a PTOE.

While you wait for your certificate, your PTOE certification number is: **4863** You should receive your certificate 120 days. If you wish your name to appear on the certificate any differently from how it is shown here, please contact Ann O'Neill **immediately** at certification@tpcb.org or by fax at 202-785-0609.

Kristen Alice Gahagan

Your initial certification fee covers a three-year period and will expire March 26, 2023.

At the end of the three-year period, your certification may be renewed without examination if you demonstrate that you have met the continuing professional development and education activities required. The specific components of the required continuing professional development are described in the enclosed attachment. Begin earning and keeping track of your professional development units so that when it is time to renew, the necessary 45 PDH's will be easily accessible. As of January 1, 2018, TPCB phased in a policy in which 20 percent 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 demonstrate fulfillment of continuing education requirements. The professional record-keeping systems, available from ITE, provide a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.
www.ite.org/pdrks/default.asp

Let me again congratulate you on obtaining this certification. We hope that you will display it with justified pride and carry out your professional activities in a manner to bring added luster to the title and practice of Professional Traffic Operations Engineer®.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB website 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 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.

Should you have questions now or in the future, please do not hesitate to contact me or the staff at the address below.

Sincerely,

Diane W. Morabito

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

Attachments

UCP SEARCH RESULTS

New Search | Export to Excel

Contractor	**Business Type**	
	Minority Type	**License**
	Phone	**FAX**
Owner	**E-Mail Address**	
Certifying Agency	**Service Type**	
Work Type		
ANASTASIA BRENAN COMMUNICATIONS, LLC D/*	White Women Owned Business	
249 YACHT CLUB DRIVE		
NICEVILLE, FL 32578	850-228-2667	
WALLACE, ANASTASIA B	SWALLACE@ABC-COMMUNICATIONS.NET	
Louis Armstrong New Orleans International Airport	PROFESSIONAL SERVICES	
541820-Public Relations Agencies		

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

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

22. Sub-consultant Information:

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
WSP USA Inc. (WSP)	301 N. Main Street, Suite 2200 Baton Rouge, LA 70802	Max Nassar, Senior Vice President, Senior Managing Director Gulf States (LA, MS, AL)	225.218.3584
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A, Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito, bferlito@vecturacs.com	225.223.6685
Anastasia Brenan Communications Group (ABC)	249 Yacht Club Drive Niceville, FL 32578	Michael G. Sasser msasser@abc-communications.net	850.896.5068

(Add rows as needed)

23. Location:

[redacted]

Gresham Smith

Genuine Ingenuity

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

10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

225.757.5849
GreshamSmith.com