June 20, 2024

Qualifications for

IDIQ CONTRACT FOR ENGINEERING AND TECHNICAL SUPPORT SERVICES FOR CRITICAL PROJECTS STATEWIDE

Contract Nos. 4400029195, 4400029196, and 4400029197

DOTD
LOUISIANA DEPARTMENT OF

WSP

DOTD FORM: 24-102

Contract Nos. 4400029195, 4400029196, and 4400029197

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ CONTRACT FOR ENGINEERING AND TECHNICAL SUPPORT SERVICE FOR CRITICAL PROJECTS
2. Contract Number(s) as shown in the advertisement	CONTRACT NOS. 4400029195, 4400029196, AND 4400029197
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**)	**WSP USA Inc.**
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0000623
6. Prime consultant mailing address	WSP USA Inc. 1100 Poydras Street, Suite 1175 New Orleans, LA 70163
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	WSP USA Inc. 1100 Poydras Street, Suite 1175 New Orleans, LA 70163
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Max Nassar, Senior Vice President Senior Managing Director (LA, MS, AL) 225-218-3584 | Max.Nassar@wsp.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Max Nassar, Senior Vice President Senior Managing Director (LA, MS, AL) 225-218-3584 | Max.Nassar@wsp.com

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

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	 _____ Signature above shall be the same person listed in Section 9: _____

	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.	Date: 6/20/24
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)' %: Civil Design & Construction, Inc. 1 % Vectura Consulting Services LLC 1 % A P S Engineering and Testing, LLC .75 %

12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime WSP USA Inc.	Firm B Arcadis U.S., Inc.	Firm C Gresham Smith	Firm D Civil Design & Construction Inc. (DBE)	Firm E Vectura Consulting Services, LLC (DBE)	Firm F Ardaman & Associates, Inc.	Firm G A P S Engineering and Testing, LLC (DBE)	Firm H T2 UES, Inc. d/b/a T2 Utility Engineers	Firm I Garver LLC	Each Discipline must total to 100%
Road	25.00%	8.00%	46.00%	46.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Bridge	25.00%	80.00%	10.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Geotech	5.00%	40.00%	0.00%	0.00%	0.00%	0.00%	45.00%	15.00%	0.00%	0.00%	**100.00%**
Survey	1.50%	0.00%	0.00%	0.00%	66.50%	0.00%	0.00%	0.00%	33.50%	0.00%	**100.00%**
Environmental	14.50%	20.00%	62.00%	18.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Traffic	4.00%	10.00%	35.00%	30.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
ITS/Tolling	2.00%	35.00%	55.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Other: Project Management/ Procurement/ Transaction Support	20.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Other: Construction Support	2.00%	80.00%	15.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100.00%**
Other: O&M	1.00%	95.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	**100.00%**
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.											
Percent of Contract	**100%**	**50.55%**	**25.79%**	**18.11%**	**1.00%**	**1.00%**	**2.25%**	**0.75%**	**0.50%**	**0.05%**	**100.00%**

13. Firm Size:

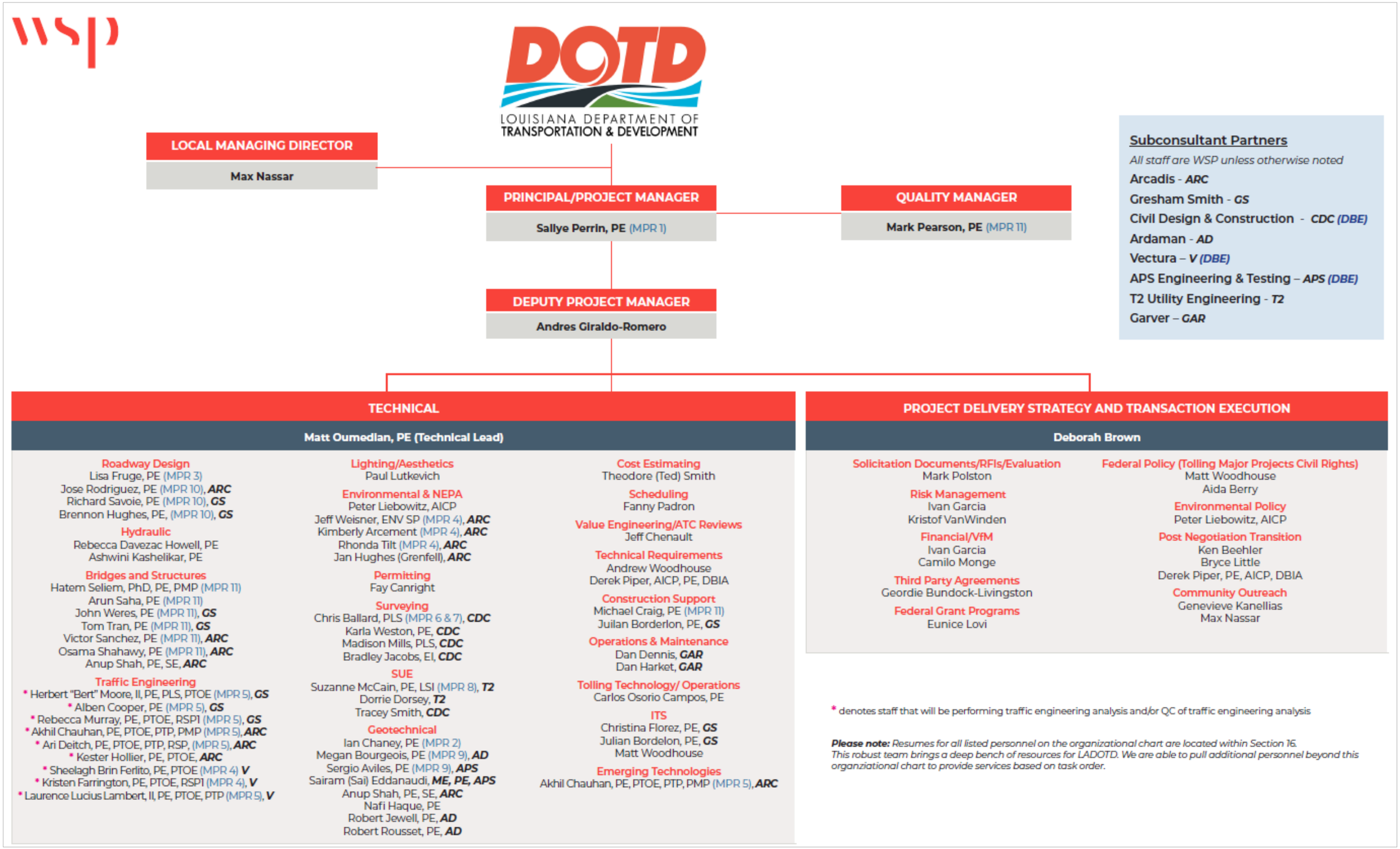
For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.
The DOTD Job Classification(s) to be used can be found at the following link:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
WSP USA Inc.	Principal	1	25
	Supervisor – Engineering	4	12
	Engineer	8	15
	Engineer: Other	5	25
	Environmental Professional	1	5
	Bridge Inspector	4	15
	Engineering-Aide	8	32
	Planner	2	10
	Technician	8	15
Arcadis U.S., Inc.	Principal	3	4
	Supervisor-Engineer	4	8
	Supervisor Other	3	1
	Environmental Manager	1	2
	Environmental Professional	2	4
	Professional	2	3
	Planner	2	2
	Biologist/Wetlands	1	4
	Engineer	1	11
	Engineer-Other	3	4

Gresham Smith	Principal	1	1
	Supervisor-Engineer	3	6
	Engineer	3	8
	Engineer Intern	3	8
	Professional	1	4
	Senior Technician	2	6
	Clerical	1	1
Civil Design & Construction Inc. (DBE)	Surveyor	1	2
	Party Chief	3	5
	Instrument Man	2	3
	Rodman	2	3
	CADD Operator	1	1
	Senior Technician	3	5
	Supervisor Other – (SUE)	1	1
Vectura Consulting Services, LLC (DBE)	Supervisor-Eng	2	2
	Engineer	3	3
	Engineer Intern	2	2
	Inspector	1	1
	Senior Technician	1	1
	Supervisor-Other	1	1
	Clerical	1	1

Ardaman & Associates, Inc.	Administrative	1	1
	Clerical	1	2
	Engineer	2	4
	Engineer Intern	3	6
	Principal	2	2
	Senior Technician	7	9
	Supervisor – Engineering	3	3
	Supervisor – Other	2	2
	Technician	10	14
A P S Engineering and Testing, LLC (DBE)	Engineer	3	3
	Engineer Intern	4	4
	Driller	7	7
	Inspector	5	5
	Technician	12	12
	Clerical	2	2
T2 UES, Inc. d/b/a T2 Utility Engineers	Engineer	1	4
	Surveyor	1	3
	Technician	4	7
	Senior Technician	1	3
Garver LLC	Other – Maintenance Engineer	1	1
	Other – Maintenance Technician	1	1

14. **Organizational Chart**:



15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

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	Sallye Perrin, PE	WSP USA Inc.	PE.0027847 - Civil	LA	3/31/2026
2	Ian Chaney, PE	WSP USA Inc.	PE.0042288 - Civil	LA	09/30/2024
3	Lisa Fruge, PE	WSP USA Inc.	PE.0033281 - Civil	LA	9/30/2025
4	Jeff Weisner, ENV SP	Arcadis US, Inc.	ENV SP #46438	USA	12/29/2024
4	Sheelagh Brin Ferlito, PE, PTOE	Vectura Consulting Services, LLC	PE.0025383 – Civil	LA	9/30/2025
4	Rhonda Tilt	Arcadis US, Inc.	N/A	N/A	N/A
4	Kimberly Arcement	Arcadis US, Inc.	N/A	N/A	N/A
5	Laurence Lambert, PE, PTOE, PTP	Vectura Consulting Services, LLC	PE.0029901 - Civil	LA	3/31/2026
5	Herbert "Bert" Moore, II, PE, PLS (LA), PTOE	Gresham Smith	PE.0031065 – Civil Land Surveyor #5043 PTOE #2728	LA LA International	9/30/2024 9/30/2024 9/30/2024
5	Alben Cooper, PE	Gresham Smith	PE.0036291 – Civil PTOE #3206	LA International	9/30/2025 5/2/2027
5	Rebecca Murray, PE	Gresham Smith	PE.0043788 – Civil PTOE #4861	LA International	8/22/2019 3/26/2026
5	Akhil Chauhan, PE, PTOE, PMP, PTP	Arcadis US, Inc.	PE.0033703 – Civil	LA	09/30/2024
5	Ari Deitch, PE, PTOE, PTP, RSP	Arcadis US, Inc.	PE.0041842 – Civil	LA	03/31/2026

6	Chris Ballard, PLS	Civil Design & Construction	Land Surveyor #5033	LA	9/30/2025
7	Chris Ballard, PLS	Civil Design & Construction	Land Surveyor #5033	LA	9/30/2025
8	Suzanne McCain, PE, LSI	T2 UES, Inc. d/b/a T2 Utility Engineers	PE.0025169 – Civil LSI #0000466	LA LA	9/30/2025 9/30/2025
9	Megan Bourgeois, PE.	Ardaman & Associates, Inc.	PE.0036725 - Civil	LA	03/31/2026
9	Sergio Aviles, PE	APS Engineering and Testing, LLC	PE.0033571 - Civil	LA	03/31/2026
10	Richard Savoie, PE	Gresham Smith	PE.0020936 - Civil	LA	09/30/2024
10	Brennon Hughes, PE	Gresham Smith	PE.0039985 - Civil	LA	3/31/2026
10	Ronnie Robinson, PE	Gresham Smith	PE.0024040 - Civil	LA	3/31/2026
10	Jose Rodriguez, PE	Arcadis US, Inc.	PE.0030492 – Civil	LA	3/31/2025
11	Michael Craig, PE	WSP USA Inc.	PE.0041964 – Civil	LA	03/31/2026
11	Hatem Seliem, PhD, PE, PMP	WSP USA Inc.	PE.0039759 – Civil	LA	09/30/2025
11	Arun Saha, PE	WSP USA Inc.	PE.0038334 – Civil	LA	03/31/2026
11	Lloyd (Mark) Pearson, PE	WSP USA Inc.	PE.0039629 – Civil	LA	09/30/2025
11	Victor Sanchez, PE	Arcadis US, Inc.	PE.0033976 – Civil	LA	09/30/2024
11	Osama Shahawy, PE	Arcadis US, Inc.	PE.0035652 – Civil	LA	09/30/2024
11	John Weres, PE	Gresham Smith	PE.0036429 - Civil	LA	9/30/2025
11	Tom Tran, PE	Gresham Smith	PE.0032072 – Civil	LA	3/31/2026

16. Staff Experience:

Firm employed by	**WSP USA Inc.**		
Name	Max Nassar	**Years of relevant experience with this employer**	5
Title	Senior Vice President	**Years of relevant experience with other employer(s)**	43
Degree(s) / Years / Specialization	BA, 1976, Psychology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	Management
Contract role(s) / brief description of responsibilities	**Principal-in-Charge**		

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).**
	Max is a native of Jefferson Parish, Louisiana and has spent 30 years in executive level positions in Fortune 500 Companies in both the manufacturing/industrial sector and architectural engineering consulting services sector. Over the past 20 years, he has overseen a multiplicity of infrastructure projects in the southeast United States, and Central America, with a value in the billions. Many of these projects have been in southeast Louisiana and have been performed for a variety of public and private clients including Louisiana Department of Transportation and Development, The Mississippi Department of Transportation, The Louisiana Department of Natural Resources, The New Orleans Regional Planning Commission, The New Orleans Regional Transit Authority, and others. Max's international experience includes port and harbor consulting at Puerto Cortes in Honduras, and construction oversight of the Port Connector Roadway in Honduras and Guatemala. He has successfully led negotiations and mediations for a variety of private clients.
04/20 – present	**LADOTD, Contract for Innovative Procurement and Alternative Delivery Support Services, LA:** Project Principal, the project includes provision of engineering, financial, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management at Risk, and/or Public Private Partnerships (P3) projects. The current effort includes leading the procurement of the Calcasieu Bridge in Lake Charles, Louisiana. To be included in the effort is a Level 2 Toll Study. The current Calcasieu Bridge is one of the most critical projects in Louisiana's Transportation System and has been identified as the most detrimental to economic development.
10/19 – present	**LADOTD Level 1 Toll Feasibility Study for a new Mississippi River Bridge between LA 1 and LA 30 (Project I.D. No. Number 101, a Priority B Megaproject in the Louisiana Statewide Transportation Plan):** Project Principal, the project includes enhancing the Capital Region Planning Commission (CRPC) Travel Demand Model (TDM to include a toll diversion model in order to be able to use the model to evaluate demand for the 3rd Crossing alternatives under different tolling scenarios. Additionally, WSP will generate estimates of annualized gross toll revenue based on the demand as well as prepare a conceptual plan to implement tolling including public outreach, economic impacts, toll infrastructures, institutional requirements, revenue risk, etc.
05/19 – Present	**Board of Commissioners, Port of New Orleans, New Orleans, LA: Seabrook Bridge Span Replacement Project, New Orleans, LA:** Project Principal for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
05/19 – Present	**Board of Commissioners, Port of New Orleans, New Orleans, LA: Almonaster Bridge Span Replacement Project, New Orleans, LA:** Project Principal for this project which included structural design, mechanical design, coordination of the

	preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
06/19 – 05/20	**NCDOT Design-Build Bridge Replacement, Structure #1: I-485 over Westinghouse Blvd., Mecklenburg County, NC:** Principal in Charge for local bridge staff designing this bridge replacement and widening. Staff assignments include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans.
06/17 – Present	**LADOTD, IDIQ Contract for Electrical and Mechanical Engineering Services:** Project Principal for this Task Order based engineering services contract which supports efforts on mechanical and electrical services related to roadways, pump stations and other mechanical and electrical needs. Task Order 1: State Project No. H.010439: Boyd Street & 21ST Street Pump Station Improvements Task Order 2: State Project No. H.010439.5: Boyd Street & 21St St Pumping Station Improvements I-110 Task Order 3: State Project No. H.010565 Acadian St. Pumping Station Improvements Task Order 4: State Project No. H.010565.5 Acadian Street Pumping Station Task Order 5: State Project No. H.972249.1 Generator Site Investigation and Load Study for Airline Drive Pump Station and LADOTD Maintenance Facility and Construction Docs for Airline Drive Pump Station Task Order 6: State Project No. H.010253: Bluebonnet Blvd Pump Station Improvements LA 1248 Task Order 7: State Project No. H.010251: Chippewa St Pumping Station Improvements US61/190
02/21-Present	**Pontchartrain Levee District (PLD), St. Charles Parish, LA:** Project Principal for assessment of the Cross Bayou Pumping Station, a flood control pumping station with influent from the canal along the Airline Highway and effluent to Lake Pontchartrain via the Cross Bayou canal. Equipped with five main diesel and one electrical low flow submersible pumps, the pumping station can deliver a total capacity of over a half million gallons per minute; it is a key pumping facility in the St. Charles Parish flood control infrastructure. The assessment involved pump and pump drives, the on-site fuel storage and delivery system, various mechanical and electrical systems and included an opinion of probable construction costs to rehabilitate the station to a state of good repair.

Firm employed by	WSP USA Inc.				
Name	Sallye Perrin, PE **(MPR 1)**		**Years of relevant experience with this employer**	22	
Title	Sr. Vice President, National Director P3		**Years of relevant experience with other employer(s)**	23	
Degree(s) / Years / Specialization			MS, University of Virginia / 1978 / Civil Engineering BA, University of Virginia / 1974 / Environmental Science		
Active registration number / state / expiration date			**PE.0027847/ LA / 3/31/2026;** MD (12971); PA (051792E)		
Year registered	1982	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Technical Principal/Project Manager		

Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Sallye Perrin has more than 40 years of planning and engineering experience and is a senior vice president with WSP. She has served as a senior technical advisor, project director, quality manager, and environmental and planning manager for transit projects throughout the United States and Canada. She is nationally recognized for her ability to help agencies find innovative and cost-effective means to implement their transit programs and projects. Sallye is noted for her expertise in public-private partnerships (P3), transit-oriented development, and alternative delivery. She has directed and managed numerous planning, environmental and engineering phases for transportation programs. Sallye has intimate familiarity with U.S. Department of Transportation and National Environmental Policy Act guidelines and regulations.
05/20 - ongoing	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Lead Technical Advisor.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process. WSP is currently serving as Technical Advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. Furthermore, WSP is supporting the questions and answers (Q&A) process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of Alternative Technical Concepts and other avenues for potential contractor innovation helping to refine the RFP documents.
01/19 - ongoing	**I-495/I-270 Traffic Relief Program (Public-Private Partnership [P3]), Baltimore, MD, Technical Lead:** Part of General Engineering Consultant (GEC) team for the innovative Maryland Traffic Relief Program for implementing a revenue risk P3 for $7 billion managed lanes along the Maryland portion of the Washington DC Beltway. Responsible for integrating with all technical groups to develop the operations and maintenance (O&M) technical requirements, performance measures and elements of non-compliance regime. Participates in the commercial working group with financial and legal advisors, program risk assessments, evaluation of procurement procedures and the interactive dialogue process, and integration of technical requirements and project agreement.
08/17 - ongoing	**I-75 Modernization: Owner's Representative Consultant Task 5, Detroit, MI, Senior Technical Advisor** for Segment 3 of the Interstate 75 Modernization Program. Assisted in the evaluation of procurement options for delivery of Section 3 of I-75 in Michigan. Upon selection of a public-private partnership procurement approach, led the development of the technical provisions and coordinated with legal and financial advisors on the integration of the contract documents. Also led the strategy evaluation to determine the approach to operations and maintenance responsibilities and developed performance requirements. Duties also include supporting WSP's role as Owners Representative during the implementation phase. The

	project achieved financial close in November 2018. WSP serves as the owner's representative to the Michigan Department of Transportation for the modernization of approximately 18 miles of Interstate 75, which includes Michigan's first high-occupancy vehicle lane. WSP is responsible for project management, planning and environmental studies, traffic and intelligent transportation systems, and engineering and construction. Key components include bridge rehabilitation, roadway and ramp reconstruction, utility relocation, lighting, pavement marking, and additional services.
06/16 – 07/17	**Los Angeles World Airports Planning and Project Management, LAX Automated People Mover (APM), Los Angeles, CA, Senior Manager** responsible for development of the P3 procurement documents and for support during the procurement process for the Automated People Mover at Los Angeles International Airport. The automated people mover will connect the Central Terminal Area to the future Consolidated Rental Car Facility and other transit facilities. The system will be approximately 2 miles in length and provide six passenger stations and an off-line operations and maintenance facility. Capital costs are nearly $2 billion dollars. Sallye's duties also included coordination with the financial and legal advisors and support for the P3 procurement process for the AMP.
11/21 - ongoing	**Otay Mesa New Border Crossing Procurement Support, Technical Advisor** responsible for leading the initial task to evaluate procurement options and select the best option to deliver a tolled new port of entry between Mexico and California. Developed and led a series of five workshops to present and evaluate a range of delivery options for delivering the new port of entry to meet an aggressive schedule to open the port in 2024. Coordinated with legal and procurement to define options and timeframes.
05/08 – 07/10	**Hybrid P3 for Four New Light Rail Transit (LRT) Lines, Houston, TX, Technical Support** for developing the final contracting approach for the hybrid P3 for delivery of four new light rail lines in Houston, Texas. Management of the engineering and planning work necessary to advance the project to contract signing. Part of the negotiating teams for the O&M and vehicle contracts. Following the award of the P3 contract, Sallye served as the project manager for the Facility Provider Contract. In this role, Sallye managed interface activities between contractors and stakeholders; worked closely with the owner to ensure that the overall design and construction program was on schedule and within budget; and that progress was reported accurately to local, state and federal agencies.
06/02 – 05-04	**P3 for Development of Rapid Transit Services, York Region, Ontario, CN, Project Director** for one of the first Canadian P3s for rapid transit development in York Region in Ontario north of Toronto. York Region was experiencing rapid growth and urbanization and developed a visionary centers and corridors land use plan. The Region desired to implement a rapid transit program to support the land use plan and procured a progressive P3 approach for delivery. Sallye's team developed a business plan for the progressive development of transit services, starting with bus rapid transit (BRT) on curb lanes along major arterials and progressing to center-lane running BRT and as ridership grew, transitioning to LRT in exclusive right of way in the roadway median. The business plan resulted in funding for the first phase from the federal and provincial governments of Canada. Sallye led the team through the environmental documentation and approval process and conceptual engineering. Working with the contractors on the team and York Region, she led the cost confidence process and contract development and negotiations that resulted in the first BRT system for the Toronto area. Sallye also worked with York Region to procure an independent operator for the BRT system. The Region has continued to follow the business plan and is now in the process of delivering the LRT service.

Firm employed by	WSP USA Inc.		
Name	Andres Giraldo Romero, C.ENG., M.SC.	**Years of relevant experience with this employer**	5
Title	Assistant VP, Alternative Delivery Specialist	**Years of relevant experience with other employer(s)**	10
Degree(s) / Years / Specialization	MSc, ParisTech / 2020 / Infrastructure Project Finance` Project Management Certificate / California State University / 2014 MSc, Andes University / 2012 / Civil Engineering and Management BA, National University of Colombia / 2008 / Civil Engineering		
Active registration number / state / expiration date	Project Management Professional (PMP): 2014156		
Year registered	2014	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Deputy Project Manager		

Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Andrés Giraldo is an Assistant Vice President with the Advisory Services Consulting Group of WSP. Andrés is an Infrastructure Investment analyst and P3 procurement advisor, experienced in the heavy infrastructure development practice in North and South America. Andrés' experience includes: i) feasibility studies, due diligence and risk allocation for alternative delivery across several sectors and throughout major infrastructure projects lifecycle, ii) Preparation of short and long term budget forecasting, including administrative costs, financial expenses, CapEx, and OpEx, as well as budget execution control; iii) Project finance, financial modeling, and strategic advice for risk analysis and assessment and financing of capital intensive infrastructure projects. As a project manager, Andrés has taken part in negotiations with international clients and has advised agencies on risk allocation, contracting strategies and claim support with technical and financial approaches.
05/23 - ongoing	**Gateway Development Commission, Hudson Tunnel Project Procurement Support, NJ:** Alternative Delivery Advisory services for the procurement of the Gateway Tunnel, a $9B Project to build America's Most Critical Infrastructure Project, a tunnel across the Hudson River between New Jersey and Manhattan. As a Deputy Project Manager, Andres is in charge of procurement management and strategy tasks including business and commercial strategy, Procurement Portal Management, Coordination of Proposer's questions and GDC answers among technical, procurement, and commercial teams, and Procurement schedule management.
05/20 - ongoing	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Deputy PM for Procurement Management.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement. As well as serving as Deputy Project Manager, Andrés is managing risk analysis in preparation for contingencies calculation. Tasks involved compiling risks analysis from different stakeholders and streamline the process for MonteCarlo simulations that provide retained, shared and transfer costs, followed by a range of contingency costs.
12/21 –11/22	**Pathways Major Bridges P3 Initiative Program Management (MBP3), PennDOT, Value for Money and financial analysis of the Major Bridge Initiative,** risk analysis and Monte Carlo simulations to calculate contingency based on risk and incorporate such contingency in the financial analysis that compares procuring the projects as DBB or as P3.
05/22 - 11/22	**New Jersey Transit (NJT):** Risk allocation analysis for the alternative procurement method selection for the Hudson-Bergen light rail O&M new contract.
10/22 - 06/23	**Consumers Energy:** Financial prefeasibility Analysis to advise Consumers Energy if applying for a relicense is a better alternative than decommissioning its portfolio of 13 dams that are reaching their current license term.
11/19 - 11/23	**Port of Long Beach –Gerald Desmond Bridge Replacement, Long Beach, CA, Deputy project liquidation finance lead,** tasked with the closure of all project controls records related to finance and cost.

02/19 - ongoing	**AZDOT, I-10 Phoenix-Casagrande Highway, AZ:** Provided evaluation of Statement of Qualifications (SOQ), draft of the Request of Proposals, (RFP) coordinated the design-build (DB) agreement with the technical provisions, strategy sessions with the client about non-compliance and liquidated damages mechanisms to be incorporated in the DB agreement. Also responsible for annual updates of the Project Management Plan and the Financial Plan, per FHWA requirements.
02/19 – 07/19	**MTA, Nice Bridge Replacement DB Project, Newburg, MD & Dahlgren, VA**: Prepared proposal evaluation forms to be used by the technical advisors and the evaluation committee of the Harry W. Nice Bridge Replacement DB Project.
12/14 – 02/18	**Santiago Metro, Line 3 and Line 6, Santiago, Chile, Project Manager** of a tunneling-related technical advisory to provide expert consulting services to Metro, as part of an arbitration process related with construction shortcomings on Line 3, (subsections 1 and 2) and Line 6 (subsections 1 and 2). The consulting service included project risk workshops with Metro and site visits to analyze, along with all the records of the construction process, the problems that the project was facing, and the proficiency of the contractor on solving them through delayed Alternative Technical Concepts.

Firm employed by	WSP USA Inc.				
Name	Deborah Brown			**Years of relevant experience with this employer**	10
Title	Sr. Vice President, Managing Director, Project Development Advisory Services, U.S.			**Years of relevant experience with other employer(s)**	31
Degree(s) / Years / Specialization			MBA / 1992 BS / 1983 / Accounting		
Active registration number / state / expiration date			n/a		
Year registered	1982	**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			Project Delivery Strategy and Transaction Execution		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Deborah advises clients on public finance and implementation of public private partnerships (P3) and innovative financing solutions. Her career includes serving as the Federal Highway Administration's (FHWA) strategic delivery team leader for the Office of Innovative Program Delivery; several leadership and management positions with the Virginia Department of Transportation (VDOT) that included director of the Office of Innovative Finance and Revenue Operations, debt and innovative finance manager and project finance manager; as well as treasurer and director of financial management for the Georgia State Road and Tollway Authority (SRTA). While at VDOT, she led the financial and commercial negotiations for Virginia's P3 program, which included the Capital Beltway Express Lane projects, I-95 Express Lanes, Pocahontas Parkway (initial construction and refinancing) and the Coalfields Expressway. In addition, Deborah directed the agency's toll facilities; centralized electronic transaction clearing and customer service center operations which served all Virginia toll agencies; as well as represented all Virginia toll agencies on the E-ZPass Interagency Group (IAG) Executive Committee.
03/24 - Present	**Pre-Procurement Advisory Services, New Orleans, LA.** *Port of New Orleans,* Senior Advisor to the Port of New Orleans in the pre-development of a connector road from the port's expansion project to I-10 that will bypass the surface roads in St. Bernard Parish. Conducting preliminary feasibility and delivery options assessments.
05/23- Present	**Gateway Development Commission, Hudson Tunnel Project Procurement Support, NY & NJ, Senior Procurement Advisor** to bi-state, multi-entity commission formed to deliver the Hudson Tunnel project connecting New Jersey and New York along the northeastern rail corridor. The tunnel project and supporting packages are being procured using multiple procurement approaches most suited to the specific program components.
05/20 - 06/24	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Project Delivery Strategy.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increases the capacity of I-10 through the Lake Charles region, and relieves a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement. Deborah led the Technical Advisors team in development of the technical provisions, technical inputs to the Instructions to Proposers and Contract Documents, and led the drafting of a successful Federal Grant application garnering a $150M Mega Grant award for the project and recently supported development of the grant agreement with USDOT. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. Furthermore, WSP supported the questions and answers (Q&A) process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of Alternative Technical Concepts and other avenues for potential contractor innovation helping to refine the RFP documents.
08/20 – 08/22	**Pathways Major Bridges P3 Initiative Program Management (MBP3), PennDOT - Major Bridge Initiative, Senior P3 Procurement Advisor.** Advised PennDOT on the procurement of a Developer Team to collaborate on the replacement and rehabilitation of nine major bridge crossings throughout the Commonwealth of Pennsylvania including the design, financing, construction, and maintenance of the bridge crossings under Progressive P3/availability payment regime.

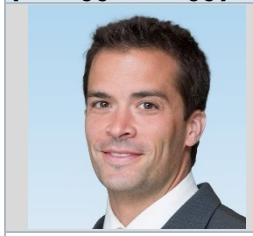
1/19 – 5/22	**I-495/I-270 Traffic Relief Program (Public-Private Partnership [P3]), Baltimore, MD** *MDOT SHA* **Deputy Tolling Lead and Diversity and Inclusion Manager** for the General Engineering Consultant delivering the $9 –11B Traffic Relief Program coordinating federal tolling authorization, state tolling policy and Diversity and Inclusion program requirements for the P3 program for the Maryland Department of Transportation State Highway Administration.
02/17– 08/20	**On-Call Alternative Project Delivery Administration Consultant, Phoenix, AZ, Senior Technical Advisor.** Advised Arizona Department of Transportation (ADOT) on alternative delivery and preparation and development of the design-build procurement contract documents (Request for Information – RFI, Request for Qualification – RFQ, and Request for Proposal – RFP). She led the development of evaluation criteria sensitivity analysis and other procurement related analysis during the project. WSP is providing ADOT with construction management and various on-call design support services for the development of alternative delivery projects.
08/17 – 02/19	**D.C. Office of Public-Private Partnerships Advisory Services, Washington, DC, Technical Advisor.** Deborah providing public-private partnership (P3) procurement advisory support and leading the procurement of a team to finance, construct, and maintain a secure facility on behalf of a government agency. Tasks include project management; pre-procurement and procurement advisory; and supporting the client with evaluation, selection, award, and execution. WSP provided business management services to the D.C. Office of Public-Private Partnerships, including program/project management, administrative business support services, research assistance, and long-term as-needed project monitoring services. Scope of work included technical and engineering reviews, development of procurement documents, and advice and analysis on a range of technical matters.
05/14 - 03/16	**Maryland Purple Line Light Rail Public-Private Partnership Project, Baltimore, MD, Technical Advisor.** Advised the Maryland Transit Administration (MTA) on the public-private partnership (P3) procurement process for the Purple Line project, leading evaluation, selection, and negotiation processes for the MTA's Purple Line Light Rail project in the Metropolitan Washington, DC area, including development of an evaluation manual, training for the evaluation process participants, and development of a secure electronic platform for completing and compiling evaluation responses. Deborah also advised the MTA on the P3 solicitation for the Red Line Light Rail project in Baltimore, Maryland and led the development of the solicitation documents. In addition, Deborah served as the alternative delivery advisor who led the policy and alternative procurement analysis for the MTA in consideration of delivery options for the Corridor Cities Transitway (CCT) bus rapid transit project. WSP, in a joint venture, provided program management for new mass transit initiatives including the Red Line, Purple Line, and Corridor Cities Transitway light rail projects. Work involved systems preservation, enhancement, and expansion of all existing Maryland Transit Administration transport modes including bus, metro subway, light rail, Maryland Area Regional Commuter Rail, commuter bus, paratransit, and freight.

Firm employed by	WSP USA Inc.				
Name	Matt Oumedian, PE			**Years of relevant experience with this employer**	20
Title	Project Manager			**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization			BS / 2003 / Civil Engineering		
Active registration number / state / expiration date			PE: Michigan (6201050342); Minnesota (51748)		
Year registered	2007 (MI); 2014 (MN)	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Technical Lead		

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).**
	Matt is a supervising roadway engineer in WSP's Detroit office, where he is involved in geometric design and plan development. He brings significant experience with project management and urban/rural freeway/freeway interchange design on large DOT projects. Matt brings experience with AASHTO standards and guidelines.
08/17 – 06/24	**I-75 Modernization Project, Oakland County, MI, Project Manager** for the procurement and construction administration for the I-75 Modernization Project (Segment 3) from M-102 to north of 13 Mile). This 5.5 Mile Design-Build-Finance-Maintain (DBFM) project is part of the overall 18 Mile I-75 Modernization Project which runs from M-102 to South Boulevard and introduces Michigan's first High-Occupancy Vehicle (HOV) lane. Work includes pavement reconstruction and widening, addition of a HOV lane; bridge replacements; upgraded pedestrian bridges; noise and retaining walls, Intelligent Transportation System upgrades; car pool lots, upgrades to utilities and drainage and the construction of an approximately 4-mile-long, 14' diameter storm water conveyance tunnel. This project was substantially completed on 8/31/23 and is currently in the long term maintenance phase.
05/19 - ongoing	**Landside Road and Bridge Preventative Maintenance, Wayne County, MI, Project Manager** for on-call services that included road and bridge preventative maintenance design plans at the Detroit Metropolitan Wayne County Airport (DTW). Scope of work includes conducting a pavement condition survey, concrete road patching, HMA milling and overlay, joint and crack repairs and curb and gutter replacement for approximately three miles on W.G. Rogell Drive, West Service Drive, East Service Drive, and International Drive, epoxy deck overlay on two bridges (13366 and 13374) and detailed MOT plans. This job is part of a landside on-call contract WSP has had with Wayne County Airport Authority (WCAA) since 2019.
	I-96 Reconstruction Project, Livonia, MI, Lead Roadway Engineer for design a 3-mile section of I-96, including ramps at three urban interchanges. Matthew's design effort included drainage study, coordination with the Michigan Department of Transportation bridge design, and complex maintenance of traffic. His responsibilities included all aspects of freeway design, including detailed drainage, complex geometrics for the mainline and the ramps, and public involvement program. WSP provided freeway design services and coordinated public outreach and engagement activities for the reconstruction of three miles of Interstate 96, a complex eight-lane depressed urban freeway. The project area was between Newburgh and Middlebelt. In addition to road reconstruction, WSP provided the design for the rehabilitation of 17 bridges and complex freeway and ramp design for three interchanges.

	Chicago Transit Authority 95th Street Terminal Improvement Project, Chicago, IL, Project Manager. WSP provided general engineering consulting services to the Chicago Transit Authority for projects assigned on a task-order basis. The contract involved a major renovation and expansion of the 95th Street bus and rail terminal. The project redesigned the existing terminal to provide more space and improve the mobility of passengers in and around the station. The project improvements included expanding the North Station by constructing ground-level retail and additional passenger circulation areas. WSP assisted with improvements, including expanding the existing bus terminal facilities to the north of 95th Street, adding bus berthing areas to the south of 95th Street, and designing a longer train platform and a new pedestrian bridge connecting the existing and new bus terminal facilities. **95th Street Terminal Improvement Project, Chicago, IL, Lead Roadway Engineer.** WSP is the prime consultant and designer of record for this project which includes the complete demolition of the existing 95th Street Terminal and its replacement with a modern expanded facility. Key project elements include the removal and reconstruction of an existing vehicular bridge, the widening of the 95th Street Bridge, the new construction of a third vehicular bridge, and the introduction of two new pedestrian bridge connections from bus platforms to the reconstructed north terminal. The purpose of the project is to design a functional and efficient intermodal facility, replace and expand terminal and platform areas, enhance bus operations, and improve the pedestrian experience and safety.
07/11 –10/13	**I-96 from Melvin Street to Telegraph Road, Wayne County, MI, Lead Roadway Design Engineer/Project Manager** (design assistance during construction and close-out support) for the reconstruction of a three-mile eight-lane section of depressed freeway, including ramps at three urban interchanges. Design effort included drainage study, coordination with MDOT bridge design, and complex MOT. Responsibilities included all aspects of freeway design, including detailed drainage, complex geometrics for the mainline and the ramps and public involvement program. The project was coordinated with another consultant design for the adjacent three-mile section of I-96 for a consistent corridor reconstruction. This project won the ACEC Engineering & Surveying Excellence Eminent Conceptor Award in 2016 for its complexity, innovative approach, and collaboration with MDOT and stakeholders.
	Detroit Water and Sewerage Department Rouge River Outfall 2, Detroit, MI, Project Engineer responsible for creating alignments, plan and profile sheets, and details for construction plans of the Outfall's design. WSP is providing design support services to the Detroit Water and Sewage Department for the development of Detroit's wastewater treatment system. WSP provided the design of a second outfall for the discharge of effluent from the treatment plant to the Detroit River. Previous tunneling attempts resulted in tunnel flooding and abandonment, calling for the need for this project.
	City of Detroit Bridge Safety Enhancement Design Services, Detroit, MI, Project Manager. WSP provided design services for various bridges around the City of Detroit. The project included replacement of the existing 80-year-old, three-span structure with a new single span, precast/prestressed I-beam bridge with mechanically stabilized earth walls, adjacent to two buildings. This project involved providing the city with on-call bridge design, inspection, rehabilitation, and construction assistance.

Firm employed by	WSP USA Inc.				
Name	Ian Chaney, PE **(MPR 2)**			**Years of relevant experience with this employer**	21
Title	Senior VP, National Director - Geotechnical & Tunneling			**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MS / 2002 / Geotechnical Engineer BS / 2001 / Mining Engineering				
Active registration number / state / expiration date	**PE.0042288 / LA / 9/30/2024**				
Year registered	2018	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities	Geotechnical Engineer				

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Ian is the National Director for Geotechnical and Tunneling for WSP. He brings over 20 years of experience on multi-disciplinary project management and leading geotechnical project efforts. His technical experience includes providing detailed and concept designs for marine facilities, tunnels, bridges, and buildings that consider site-specific geotechnical and environmental conditions, as well as the spectrum of multi-disciplinary concerns inherent with large infrastructure construction activities. As WSP's lead designer on the Mid-Barataria Sediment Diversion project, Ian understands the unique geotechnical conditions of Louisiana. He brings experience working with the Mott MacDonald team on the Hampton Roads Tunnel project.
01/17 – 09/19	**LADOTD, Mid-Barataria Sediment Diversion Project, New Orleans, LA.** As part of this CMAR project to design an intake structure and 2-mile long conveyance channel from the Mississippi River, Ian is the Lead designer and WSP Project Manager providing designs for floating U-structures and immersed tube tunnels, over which a RR bridge and the LA 23 bridge will be constructed. Ian is responsible for the design of the U-structure to support both the highway bridge and the RR bridge. Conceptual plans have been developed for both standard through girder designs and for a flood-proof design that could potentially lower the profile and reduce the overall bridge length by several thousand feet. At completion, the project will accommodate a diverted flow of more than 75,000 cfs of sediment-laden water that will ultimately be deposited and dispersed into the Barataria Bay, enabling marsh creating for future decades.
09/09 – 12/17	**VDOT, Midtown/Elizabeth River Tunnel Project, Norfolk and Portsmouth, VA.** On this long-term, $2.1B Mega-Project, Ian's duties started as the geotechnical design manager and finished with being the on-site Project Manager during construction. As the on-site Design Manager During Construction, Ian was responsible for daily management of design services during construction, claim mitigation and negotiation, and financial decisions regarding design work. As geotechnical design manager for this immersed tunnel project that parallels an existing immersed tunnel, Ian was responsible for the management of all geotechnical, underground, and marine aspects of the design and the coordination of the these works between the civil, geotechnical and structural disciplines. Work consisted of dredging and foundation preparation for the immersed tubes, immersed tube design, island reclamation, buoyancy and transportation, as well as the design of the support-of-excavation system that included over 4,000 lf of in-water sheet piling, some of which utilized tiebacks and underwater struts, and that included two 50-foot-deep dewatered excavations for the tunnel approaches. The scope also required the remediation of the Portsmouth Marine Terminal, which the tunnel passes through. The port facility was returned with a 750-psf live-load allowance, with no reduction in service due to the newly constructed tunnel. to significant environmental degradation from ongoing coastal land loss, subsidence, and sea level rise.
10/07 - 05/12	**North Beach Stormwater Pump Station and Ocean Outfall, Virginia Beach, VA, Geotechnical Engineer.** WSP provided planning, design, and construction administration services for the city of Virginia Beach Department of Public Works. The project included a 96-inch diameter collection system, a 90,000-gallon per minute submersible pump station, 2,000 linear feet of large-diameter force main ocean outfall, microtunnel evaluation, Environmental Protection Agency stormwater management computer simulation model, watershed evaluation study, environmental permitting, public utility relocation, architectural design for pump station generator building, and landscaping consistent with the oceanfront resort community

	environment. The project involved phased construction, detailed cost estimates to meet budgetary constraints, and public participation with civic leagues and residents.
2019 - present	**VDOT, Hampton Roads Bridge-Tunnel Expansion, Norfolk, VA.** Engineering Manager for this $4B marine bridge and tunnel expansion project that consists of two new bored tunnels under the Hampton Roads shipping channel, artificial island expansion, access dredging, four (4) miles of new bridge trestles and four (4) miles of highway widening on land. On behalf of the owner, VDOT, Ian is responsible for all marine design and construction for this project that encompasses tunnels, island expansion, scour protection, Navy coordination and permitting. The project also includes two major excavations at the man-made islands – each over 50' deep and underwater, that are to be dewatered for launching and receiving the Tunnel Boring Machine.
01/18 – 09/19	**NC540 – R2828 – Triangle Expressway, Raleigh, NC, Geotechnical Design Manager** for this design-build project consisting of approximately 9 miles of roadway on new alignment that includes 10 bridges on new alignment and 11 bridges on a turbine interchange at the existing Interstate I-40. For this project, Ian was responsible for the foundation design, the slope and retaining wall designs, the embankments, and roadways, as well as dewatering of several areas where the proposed roadway grade is below current perched groundwater in cut areas.
06/18 – 09/19	**I-440 Widening – Nashville Connector, Nashville, TN,** Lead Geotechnical Engineer responsible for the geotechnical design of 3 bridge widenings, including two lower-level overpass bridges and one high-level bridge founded on 7-foot diameter shafts. As part of the project, Ian was also responsible for the drilled shaft inspection and remediation.
07/18 – 12/22	**Pensacola Bay Bridge Replacement Design-Build, Pensacola, FL, Subject Matter Expert** in Geotechnical Engineering responsible for the evaluation of the pile settlement characteristics driven over potentially compressible soils, and for the forensic review of the bridge foundations after barge impact and damage due to Hurricane Sally.

Firm employed by	WSP USA Inc.			
Name	Lloyd (Mark) Pearson, PE **(MPR 11)**		**Years of relevant experience with this employer**	3
Title	QA/QC Engineer		**Years of relevant experience with other employer(s)**	42
Degree(s) / Years / Specialization		ME / 1979 / Structural Engineering BS / 1977 / Structural Engineering		
Active registration number / state / expiration date		PE.39629 / LA / 9-30-2025 (also licensed in AL; MS; FL; GA; NC; SC; VA)		
Year registered	2015 (LA)	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities		QC/QA		

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).**
	Mark is a bridge inspection and preservation manager, senior bridge engineer and project manager. He has functioned as task lead, engineer-of-record, design engineer, and QA/QC reviewer and manager on a variety of bridge replacement, widening, inspection, load rating and rehabilitation tasks in Alabama, North Carolina, South Carolina, Florida, Georgia, Tennessee and Virginia over a 40+ year career. He has been quality control manager for several design-build projects and pursuits in NC and FL and has provided independent peer reviews for complex bridges in FL. He is currently task manager for post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control and quality assurance reviews of bridge load ratings in NC, SC and VA (using AASHTOware BrR) and reviews of bridge rehabilitation and repair plans in NC and SC. Mark also managed QA/QC reviews for up to five roadway widening projects in Division 6 for NCDOT in 2017-2019. *Relevant Training: Concrete Preservation Alliance, 2021 Seminar Series on Concrete Bridge Preservation, On-line; TRB Seminar, Use of Drones to Inspect Bridges, 2021, On-line; AASHTO, NCPP Bridge Preservation Seminar; Bridge Deck Preservation Using Overlays, 2020, On-line; NSBA Steel Bridge Forum, Raleigh, 2019; NS and CSX Railroad Roadway Worker Protection - Contractor Safety Certification, Raleigh, 2019; PCI Bridge Design Manual Seminar, Raleigh, 2004; FHWA Curved Steel I-Girder Workshop, San Antonio, 2004; FHWA & ALDOT Prefabricated Bridge Elements Workshop, Montgomery, 2004.*
07/18 – 12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Senior Load Rater/QC Manager on this contract, which consisted of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed and Mark QC'd 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. WSP efforts saved the State tens of millions of dollars.
05/17 – 03/19	**City of Oxford, Alabama, Leon Smith Parkway Bridge Widenings over Choccolocco Creek, in Calhoun County:** Engineer-of-Record for widening design of a four @ 100-foot span bridge and a five @ 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly

	supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021).
05/16 – 07/18	**City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, North Carolina:** Project Manager for bridge replacement project with Categorical Exclusion (CE), surveys, hydraulic (FEMA) modeling, utility design/coordination and permitting. Engineer-of Record for design of the 100 foot, two-span precast cored slab bridge replacement. Work included checking the plans and calculations, supervising the design and providing engineering support services. (Construction 2018)
04/16 – 08/16	**CFX (FDOT) Ramp G Bridge in SR 417 Boggy Creek Interchange, Load Rating (Bridge 750804), Central Florida Expressway, Orlando, Florida:** Engineer-of-Record for structural load rating of four–span, curved, twin steel box girders spanning 201.75ft-246.92ft-201.75ft-246.92ft.
02/09 – 7/14	**Florida DOT - District 4, I-595 Express Lanes (Design-Build) between I-75 and I-95, Broward County, Florida:** Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the design–build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings in BrR and construction phase engineering support services. Bridges included curved girders with integral caps.
02/13 – 12/13	**NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, North Carolina:** Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).
04/09 – 07/10	**Tennessee Steel Truss Bridge Ratings:** Engineer-of-Record for member rating analysis of three steel truss bridges in Tennessee: Old SR25/Cumberland River with 316-foot main span through truss and deck truss approaches; SR375/German Creek with 282 feet main span through-truss; and SR 67/Watauga River with 492 feet main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

Firm employed by	WSP USA Inc.				
Name	Lisa Fruge **(MPR 3)**			**Years of relevant experience with this employer**	5.5
Title	Supervising Engineer			**Years of relevant experience with other employer(s)**	15
Degree(s) / Years / Specialization			BS / 2003 / Civil Engineering / Louisiana State University		
Active registration number / state / expiration date			**PE.0033281 / LA / 9/30/2025**		
Year registered	2007	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Civil Engineer – Urban Complex Highway		

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).**
	Lisa is a transportation supervising engineer and project manager whose expertise includes rural highway design, urban road design, and design-build delivery. She managed the design of three roundabouts on the Dillard Street Reconstruction project, various Superstop site designs for LYNX, a trail overpass feasibility task order for FDOT D7, and road reconstruction for the Town of Esto, Florida. She also served on the management team for 2 significant design build turbine interchange projects in North Carolina. Previously serving as a project manager in Louisiana, Lisa oversaw the development of construction plans, calculations, and specifications for various clients such as Louisiana Department of Transportation and Development, St. Tammany Parish, the City of New Orleans, and the Greater New Orleans Expressway Commission.
08/17 – 06/ 18	**LADOTD, I-10 Design-Build (DB), Highland Road - LA73, East Baton Rouge Parish/Ascension Parish, LA, Owner's Representative.** This project added a lane to widen the interstate from Highland Road to LA73 and included the replacement of the steel girder bridge over Highland Road, the widening of the slab span concrete bridge over Manchac Bayou, and the jacking and repair of the prestressed concrete girder Bluff Road bridge over I-10. Lisa performed design and plan reviews for this project for both the bridge and roadway plans at the milestone submittals and performed audits of the design team's quality control. Construction cost: $72 million.
09/2020 - ongoing	**Jefferson Parish, Bonnabel Boulevard Roadway Improvements (Metairie Rd. to I-10), Jefferson, LA:** The project, which is a Federal aid program with joint FHWA and Jefferson Parish founding, will provide a 3" mill and overlay of the roadway surface, full depth concrete patching and curb replacement. As Quality Control Reviewer, Lisa reviewed preliminary and final drawings to ensure adherence to LADOTD standards, AASHTO, and Jefferson Parish Design Guidelines.
06/17 – 06/18	**Greater New Orleans Expressway Commission, Causeway Safety Bay Improvement Project | Jefferson/St. Tammany Parishes, Project Manager/Lead Engineer** on this landmark project to add 12 emergency safety bays (16' wide, 1008' long) to the existing 24-mile long Greater New Orleans Expressway (known as the Causeway) over Lake Pontchartrain. Volkert was chosen as the designer to provide engineering services following a design competition with 3 other firms. This is Louisiana's first highway project to use a CMAR delivery method. I, along with my team, worked closely with the selected contractor and client to present various design concepts for inclusion in the final plans to help arrive at a Guaranteed Maximum Price for the construction (budget of $50 million). The LRFD design consists of AASHTO Type IV and Type III girders on precast caps and 54" spun-cast cylinder piles. Construction will consist of accelerated bridge construction methods to minimize time spent on the water and lower the cost of the overall project.
2014 2017	**Port of New Orleans, Almonaster Avenue Bridge Over the IH-NC, Orleans Parish, Project Engineer** for the final design of the fixed approach spans (AASHTO girder spans and pile bents) leading to the main moveable span over the Inner Harbor Navigational Canal. Coordinated design details and plan format with LADOTD (stakeholder). Provided cost estimate and quantities for interim submittals.
05/15 – 06/18	**MacArthur Interchange Completion Phase II | Jefferson Parish, LA, Project Manager/Lead Roadway Engineer. Lisa** developed the geometry to widen a portion of the eastbound Westbank Expressway (US 90) in Harvey, LA and relocate the existing exit ramp to allow for a new entrance ramp. She developed an MOT for this effort that allowed 2 lanes of traffic in the eastbound direction on the Expressway and carefully coordinated the sequence of construction of the ramp removal and addition to provide the least impact on the travelling public, both on the Expressway and the parallel Harvey Tunnel and

	frontage road. Ms. Fruge also developed the geometry to relocate the adjacent frontage road to allow for the required substructure of the widened portion of the Westbank Expressway. This effort involved the oversight of the creation of preliminary plans including plan and profiles, typical sections, a detailed sequence of construction, geometric details, cross-sections, drainage maps, and storm drain plan and profiles, as well as cost estimates at each milestone.
03/10 – 07/13	**LADOTD, I-10 Design/Build (Siegen Ln - Highland Rd), East Baton Rouge Parish, LA. Roadway Engineer.** Performed preliminary design & final plan preparation of bridges over the KCS Railroad and Wards Creek. I designed AASHTO type II, III, & IV girders, concrete decks and pile bents. I also assisted in the design of steel plate girders, column bents and related items. All bridge design was LRFD. Coordination with KCS railroad to obtain necessary permits was required. Complexities of the project include greatly skewed steel spans and construction immediately adjacent to a remaining high powered electric pole in the interstate median. The design accounts for the phasing of construction allowing the interstate to remain open while the bridges are being completely replaced. I performed bridge ratings (LRFR) according to AASHTO Manual for Bridge Evaluation, 2nd Edition, 2011, and used Virtis software (now BrR) to evaluate the applicable components of both bridges.
2016- 2018	**LADOTD, LA 1088 Corridor Line and Grade Study (LA 59 to I-12), St. Tammany Parish, LA, Project Engineer** on this corridor study which investigated applying complete streets principles to the widening of this 2 lane highway. Compared several alternatives and their impacts on right of way, drainage, and utility relocation. Various typical sections containing different median widths included options to widen the shoulder for on-road bike facilities with a separate sidewalk versus an offset shared use path. Design required properly coordinating the pedestrian/bike flow around several proposed roundabouts at intersecting subdivisions and at the LA 59 intersection and the I-12 off/on ramps.
03/19 - ongoing	**NC Turnpike Authority, R-2828: NC 540 Triangle Expressway, Southeast Extension DB (from east of US 401 to east of I-40), Wake and Johnson Counties, North Carolina:** Member of the WSP management team for this project. R-2828 is one of three segments to extend the existing Triangle Expressway in Apex, NC to I-40 as a six-lane fully tolled facility on new location for approximately 8.6 miles. WSP is the lead designer providing management, All Electronic Tolling (AET), permitting and construction drawings for the entire project including 21 bridge sites and the design of a new turbine interchange at I-40/US 70/NC 540. In addition to participating in weekly design progress meetings with the design team and contractor, Lisa is helping to coordinate the parcel acquisition priority schedule as it relates to the contractor early works construction schedule and the utility relocation schedule. The project involves the acquisition of all or a portion of over 200 parcels along the main line and seven major cross streets. She is also managing change and cost control on the project.
07/21 - ongoing	**Interstate 75-Martin Luther King Jr. Blvd. Diverging Diamond Interchange, Hillsborough County, FL, Deputy Design Project Manager** coordinating with the contractor, the Florida Department of Transportation, and her team on weekly design meetings, biweekly client updates, and internal discipline specific meetings to progress the project towards successful delivery. She is the engineer of record for the Typical Section, Design Variations, and Pavement Design packages, and oversees change control to monitor the project budget. She assists the project manager in managing the overall schedule as well as permitting efforts to maintain the critical path. WSP is serving as lead designer for this design build project. The project scope includes the widening of Interstate 75 to support the design of a new diverging diamond interchange at Martin Luther King Jr. Boulevard and all associated ramps. The milling/resurfacing and reconstruction along Martin Luther King Jr. Boulevard extends from Queen Palm Drive to Williams Road. Also included is the widening and milling/resurfacing of Williams Road to provide an additional receiving lane for the dual left turn lanes from eastbound Martin Luther King Jr. Boulevard to northbound Williams Road. A collector-distributor road is designed to carry traffic from Martin Luther King Jr. Boulevard directly to Interstate 4 paralleling Interstate 75.

Firm employed by	WSP USA Inc.			
Name	Hatem Seliem, PhD, PE, PMP **(MPR 11)**		**Years of relevant experience with this employer**	1
Title	Vice President, Structural/Bridge Engineer		**Years of relevant experience with other employer(s)**	19
Degree(s) / Years / Specialization			PhD / 2007 / Civil Engineering (Structural) MS / 2002 / Structural Engineering BS / 2000 / Civil Engineering	
Active registration number / state / expiration date			PE.0039759 / LA / 9/30/2025 (also licensed in FL; MS; TX; GA; SC; NC; VA; MD)	
Year registered	2015 (LA)	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities			Bridge Design Engineer	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Hatem has 20 years of experience in structural engineering with special emphasis on design and behavior of reinforced and prestressed concrete structures and bridges. He served as the lead design engineer on several large-scale projects. Further, he is a Certified Project Management Professional (PMP)® and served as project manager on large-scale projects. He was the lead designer of reinforced concrete and prestressed concrete bridges and structures varying from simple slab spans to box concrete bridges, including multidiscipline coordination. Further, has strong experience for retrofitting structures and bridges using Fiber Reinforced Polymers (FRP) materials. He has in-depth knowledge of national and international design codes including AASHTO, ACI, AISC, PCI, IBC, Eurocode, ECP, and SBC. *Hatem has been working on Louisiana projects for the past 10 years including several load rating, evaluation, and rehabilitation of bridge structures encompassing simple slab span to complex bridges. He is a certified Traffic Control Technician (TCT) and Traffic Control Supervisor (TCS).*
10/19 – 9/22	**LADOTD, MacArthur Interchange Completion, Phase II, LA, Bridge Engineer of Record.** responsible for the structural design of the superstructure and substructure, deck drainage design, and construction cost estimate. Further Hatem was the Project Manager to coordinate with subconsultants and LADOTD Project Manager. The project constitutes Providing two new, on-ramp and off-ramp connections between the eastbound of the elevated West Bank Expressway (US 90-Z) and Frontage Road, demolish the existing off-ramp, and widening of the US 90-Z bridge structure to accommodate the new ramps.
09/20 – 06/21	**LADOTD, Load Rating of 396 Bridges, LA, Team Leader** responsible for the load rating analysis and critical review of Finite Element models and structural analysis. This project involved the load rating of 396 existing off-system bridge structures by the Load and Resistance Factor Rating method (LRFR). Bridge types included prestressed concrete girder bridges, steel girder bridges, precast and CIP slab bridges, concrete culverts, swing bridges, and timber bridges. Three-dimensional finite element modeling is used as necessary for the complex bridges.
02/20 – 11/20	**LADOTD, Evaluation of Bridge Deficiencies-Concrete Piles Repair, LA.** Led the research team, developed the final report, developed repair plans. Deteriorated concrete piles exhibit different signs of distress, depending on exposure environments, stress level, and construction quality. The scope of this work was to research and identify effective repair systems and/or methods to be used for routine and typical maintenance, of RC and PPC piles for above water and underwater applications.
05/19 – 12/19	**LADOTD, Non-Destructive Evaluation and Load Testing of Seven Posted Bridges, LA.** Reviewed and validated finite element analysis results. Provided approval of instrumentation planning, review/validation of diagnostic load testing results, and review of final reports and commencement of results. The scope of work was to evaluate seven bridges, five of which are movable bridges, that are posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing load rating analysis and load testing coupled with detailed 3-D Finite Element Analysis with the aim of removing current load posting.
06/19 – 03/20	**LADOTD, I-20 over Lakeshore Drive and KCS RR, Caddo Parish, LA.** Provided review of existing documents including as-built plans, load rating reports, and inspection; QC/QA review of the structural analysis and design of rehabilitation; and Construction cost estimate. Provided Stage 0 Design (Feasibility Study) for four bridge structures of I-20 crossing over Lakeshore Drive and KCS Railroad in Shreveport, LA. Design of rehabilitation to improve the bridges conditions, service life, and load rating was carried out. Different rehabilitation alternates were designed and detailed.

03/19 – 09/19	**LADOTD, Evaluation and Load Rating of 27 Complex Off-System Bridges, LA, Team Leader** responsible for the load rating analysis and critical review of Finite Element models and structural analysis. Included evaluation and load rating of 27 complex off-system bridges. The bridge types included, steel I-beam, plate girder swing spans, plate girder continuous spans, plate girder bascule spans, low truss swing spans, plate girder swing spans and steel box girder.
04/18 – 04/19	**LADOTD, LA 182 Over Atchafalaya River (Berwick Bay), LA.** Provided QC/QA review of rehab design including FRP, jacking design for bearings replacement; QC/QA review of construction plans; developed the Specifications of Non-Standard items. The simple through truss bridge carries LA 182 over the Atchafalaya River has a total length of 3,746 ft. The approach spans consist of RC slab spans, RC T-beam spans, and two deck truss spans. The navigational spans consist of three through truss spans. Scope of work included evaluation of the existing bridge, rehabilitation design; developing construction plans; perform diagnostic load testing on RC T-beam approach spans; and load rating analysis of the rehabilitated bridge.
05/16 – 04/18	**LADOTD, US 80 Red River Bridge Inspection, Load Rating, and Rehabilitation, LA.** Provided structural analysis of the main span trusses using refined analysis, inspection team leader conducting hands-on inspection and ultrasonic testing of steel pins; and QC/QA review activities: load rating analysis; evaluation report; design of truss members rehabilitation; design of substructure rehabilitation; and construction plans. The bridge built in 1934 is a historic bridge carrying US 80 over the Red River at Shreveport with a total length of 2,895 ft. The approach spans consist of RC T-beam spans, steel girders, and steel deck trusses. The main spans are three-span steel truss with a total length of 884 feet. Scope of work included in-depth inspection of the entire bridge structure; evaluation of the structural strength; load rating of the deficient structure; rehabilitation design; plans development; and construction support.
08/14 – 08/15	**LADOTD, LA 66 Big Bayou Sara Bridge, LA.** Analyzed the “ponny” trusses under the effect of different loads; and detailed review of rehabilitation design and construction plans. The historic bridge was built in 1949. It consists of five, 100 ft. steel pony truss spans and five 40 ft. steel I-beam approach spans. Services included: inspection and evaluation of the existing structure, rehabilitation design for the superstructure and substructure, development of construction plans, and design of temporary two-lane detour steel panel bridge to maintain traffic during construction.
06/13 – 02/14	**LADOTD, I-10 Whiskey Bay Fire Repair, LA, Project Manager** to coordinate with LADOTD Project Manager. Senior engineer leading the inspection team and load rating analysis as well as designing of rehabilitation system utilizing FRP composite materials. Developed the Specifications for Non-Standard items. Inspection and evaluation of the elevated expressway (part of I-10) between Atchafalaya River Bridge and Whiskey Bay Pilot Channel Bridge due to fire.
08/13 – 05/15	**LADOTD, US 11 Lake Pontchartrain, LA.** Provided structural analysis of the arched RC T-beam spans using refined analysis to account for the arching effect; inspection team member conducting hands-on inspection; QC/QA review activities: The historic bridge (built in 1928) carries US-11 over Lake Pontchartrain, which consists of 700 reinforced concrete spans and two steel movable spans for a total length of 24,922 ft.

Firm Employed by	WSP USA Inc.		
Name	Michael Craig, PE, SE **(MPR 11)**	**Years of relevant experience with this employer**	26
Title	Senior VP, Southeast In-Service Bridge Dept. Manager / Structural Engineer	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	MS / 1999 / Structural Engineering – Bridge Inspection, Repair and Design BS / 1997 / Civil Engineering		
Active registration number / state / expiration date	PE.0041964 / LA / 03/31/2026 (also licensed in MS; TX; GA; FL; SC; NC; TN; VA; MD; NE; PR)		
Year registered	2017 (LA) **Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities	Bridge Design Engineer		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Over the course of the past two and a half decades, Michael has dedicated his career to the field of bridge inspection and evaluation engineering service contracts. During his career, Mr. Craig has conducted inspections, or supervised the inspection, of an impressive portfolio of over 5,000 structures. His expertise extends to load rating analysis, having performed, or managed the load rating over 3,000 bridges, primarily completed in BrR. He has also been involved in load testing of over 160 bridges and conducting material testing and non-destructive testing (NDT) on over 520 bridges. Notably, Michael has taken on leadership roles in some of the most significant bridge inspection and load rating projects across the Southeastern United States. These projects include the SCDOT Bridge Load Rating project, MDOT Greenville Cable-Stay Bridge Inspection and Testing, NCDOT Statewide Bridge Inspection and Load Rating contract, Georgia Cable-Stay Inspection, Repair and Load Rating contract, and he has provided valuable assistance in managing Texas fracture critical and routine inspection contracts, as well as the Florida Sunshine Skyway Bridge inspection contract. Michael Craig has earned a reputation for successfully completing large-scale, multi-bridge, and statewide bridge inspection and load rating contracts. He holds the title of a registered Professional Engineer in the state of Louisiana, and his academic background includes a master's degree in Structural Engineering with a specific focus on bridge design. In his management approach for load rating projects, which has proven effective in multiple statewide endeavors, Mr. Craig emphasizes the importance of a cohesive team structure, meticulous pre-planning and staffing, optimization of load rating and load posting avoidance, rigorous progress tracking, and a robust quality assurance/quality control (QA/QC) process. *Relevant Training: Safety Inspection of In-Service Bridges, 2001 (NHI-130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2015 (NHI-130078); Bridge Inspection Refresher Training, 2023 (NHI-130053); Railroad Roadway Worker Protection 2023; Bridge Maintenance Training, 2013 (NHI-134029); Tunnel Safety Inspection, 2023 (NHI-130110); Confined Space, 2009; Bridge Inspection Nondestructive Evaluation Seminar (BINS), 2008 (NHI-130099A); Bridge Coatings Level 1, 2012; FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017; OSHA 30-hour Hazard Recognition Training for the Construction Industry, 2017; Licensed Drone Pilot, 2021*
07/18 – 12/22	**SCDOT, Bridge Inspection and Load Rating, SC, Project Manager** of this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for **2,558 structures** including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed **160 load tests** involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. ***WSP efforts saved the State tens of millions of dollars.***

09/22 – 01/23	**US-82 Greenville Bridge Inspections, Greenville, MS / Lake Village, AR, Bridge Inspection Engineer.** The US 82 Bridge is a cable-stayed bridge connecting Mississippi and Arkansas. Spanning the Mississippi River, it has a total length of 2.6 miles from abutment to abutment. WSP conducted a comprehensive safety inspection of the Greenville Bridge. This inspection included various components: routine NBI Inspection, Element-level Inspection, Repair Quantity and Locations Assessment, Fracture-critical Inspection, Hydrographic Survey, Deck Elevation Survey, Hands-on Visual Inspection, and In-depth Cable System Inspection, and Non-destructive evaluation. A team of engineers and certified rope access technicians, including Level III supervisors, conducted rope access work. Drone inspection work was performed by two licensed Part 107 pilots. The inspection included accessing the bridge's pylons using rope access techniques, utilizing a team of eight certified professionals and two SPRAT Level III technicians. To inspect sections of the stay cables that were beyond rope access, the team employed unmanned aerial systems (UAS) using the Skydio S2+ known for its obstacle avoidance technology that allowed for closeup cable inspections. Fourteen anchorage caps were removed, and ultrasonic testing used to evaluate conditions within ten feet of the anchorage. Cable tension was determined using vibration methods and piezoelectric accelerometers with a 0-300Hz frequency response. |
06/01 – Ongoing	**NCDOT Structures Bridge Inspection Limited Services Contract, NC, Team Leader, Project Manager** and QC Manager. Michael has been continuously involved with the NCDOT bridge inspection and load rating program for 24 years. He has performed field inspections, analysis, and load ratings; designed bridge replacements, evaluated the physical condition for repairs; corrosion condition evaluations, health monitoring, nondestructive testing including UT, DP, and MP, drone Inspections and recommended preservation and maintenance needs. To date he has completed over 4,000 inspections and 2000 load ratings, including many of the state's longest structures, curved steel structures, movable bridge, segmental boxes, and fracture critical trusses.
06/16 – Ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, GA, Project Manager.** Michael has overseen the task-order contract that encompassed a range of critical bridge evaluation activities. These include a specialized member inspection of the Sidney Lanier Bridge in 2016, focusing on assessing exposed strands with varying degrees of corrosion. Additionally, there were in-depth National Bridge Inspection (NBI) and emergency post-hurricane inspections of the Talmadge Memorial Bridge in 2017 and 2020. His tasks also included the **instrumentation and testing** of both cable stays bridges to determine the existing force in each cable. Michael's leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation of external dampers on all 176 stays.
06/21 – 06/23	**DC Metro, WMATA Rail Bridge Inspections and Load Ratings, DC, Project Manager.** Michael was involved in this significant project related to the DC Metro's WMATA Rail Bridge Inspections and Load Ratings. This endeavor was conducted in collaboration with Gannet Flemming Engineering. The primary objective was to improve outcomes by developing and refining WMATA's asset management procedures. To achieve this overarching goal, WSP performed routine inspections, and load rating analyses to determine the load rating of these structures. Bridge **load ratings were completed in BrR and CSI Bridge,** and include truss structures, curved steel box structures, and segmental concrete box structures.
06/16 – 06/22	**TXDOT NBIS Bridge Inspection and Load Rating, Statewide TX.** Michael was responsible for coordinating staff and resources required for conducting comprehensive inspections and load ratings of various structures. Additionally, he played a key role in assisting with the culvert load posting avoidance program, which involved rigorous load testing and analysis to remove thousands of **unnecessary load postings**. The reports generated as part of these assessments were instrumental in making informed decisions regarding load limits and ensuring the structural integrity and safety of the infrastructure. The team also successfully completed more than 3463 NBIS routine bridge inspections for TxDOT, along with over two hundred **load ratings.** The range of inspections and load ratings encompassed reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for both simple and continuous spans.

Firm employed by	WSP USA Inc.			
Name	Arunava Saha, PE **(MPR 11)**		**Years of relevant experience with this employer**	3.5
Title	Vice President/Georgia Structures Leader		**Years of relevant experience with other employer(s)**	30
Degree(s) / Years / Specialization		MS / 1995 / Civil Engineering BS / 1989 / Civil Engineering		
Active registration number / state / expiration date		PE.38334 / LA / 3-31-2024 (also licensed in GA; SC; NC; MS; KY; NV)		
Year registered	2013 (LA)	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Engineer		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Arun has more than 30 years of experience in the structural engineering field and holds a master's degree in civil engineering. His structural design experience includes prestressed and post-tensioned concrete, structural steel bridges, seismic design, box culverts, and tieback retaining walls. Arun's bridge design experience includes construction falsework and erection engineering, highly skewed and curved bridges, long-span plate girders, post-tensioned spliced box girders, and trusses. His responsibilities have included preliminary/final/ rehabilitation design, technical design reviews, load rating / BrR, analyses, and management of plan production. He has also developed LOADRATE software using Visual Basic Utilized by GDOT and their consultants to perform load ratings across the state of Georgia.
7/18 - 12/22	**SCDOT, Bridge Inspection and Load Rating, SC, Senior Load Rater** for the contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for **2,558 structures** including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-. In addition, WSP performed **160 load tests** involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. WSP efforts saved the State tens of millions of dollars.
02/13 –08/15	**LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, LA, Bridge Task Manager** whose responsibilities included attendance at all design-related meetings (internal team and DOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges for east on" inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT and westbound traffic. Each structure was 1887 feet long with seventeen 111-foot spans, with LADOTD precast, prestressed concrete "LG-54" girders. The superstructure consists of a simple span over LA 318, flanked by four two-span continuous units on the east and west sides. Stantec was the prime design consultant and collaborated with the Gilchrist Construction design-build team.
06/16 - ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, GA, Project Manager.** Arun assisted with rehabilitation design of the cable stay dampening system. Arun's leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation

	of external dampers on all 176 stays. In 2022, Arun assisted with the **load rating** efforts for both the Sidney Lanier and the Talmadge Signature Cable-Stay Bridges, utilizing a full **3D FEM MIDAS Model** of the structures
02/13 –08/15	**LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, LA, Project Manager.** Overall project manager whose responsibilities included maintaining schedule and budget; quality management; coordination with project team, sub-consultants, and client; design, plan productions, and deliverables. This project is located in Bossier Parish and crosses the Red River. The existing bridge is a 16-span structure, totaling approximately 2,823 feet in length. The bridge is on State Route LA 511 and is composed of three main steel truss simple spans: 354 feet, 402.5 feet, and 354 feet long respectively. The truss spans are flanked on both ends by three-span continuous steel deck girders, totaling 610 feet each and spanning the batture at each end. Simple steel girder spans of 70 feet each complete the structure, with five spans at the west end and two spans at the east end of the bridge. Stantec Consulting researched previous repair and inspection documents along with performing in-depth condition verification inspection using rope access method. Based on the findings of the research and site visit, Stantec generated repair strategies and presented the scope of services to LADOTD. Upon approval, prepared construction plans for rehabilitation and performed load rating based on as-rehabilitated condition. Structural rehabilitation included full deck replacement, structural repair of truss members over 200 locations, design of paint containment system, replacement of nested rocker bearing, design and detailing of jacking scheme of truss spans, pin and hanger replacement.
02/13 –08/15	**LADOTD, Retainer Contract for Bridge Preservation, Statewide, LA, Project Manager** for this $6-million on-call contract, which includes a full array of services, such as bridge design, rehabilitation, bridge hydraulics, roadway design, geotechnical investigation, and surveying. LADOTD selected Stantec Consulting Ltd. to provide bridge task order services throughout the state. To date, the focus of the contract has been to provide design and construction documents for the new widening and rehabilitation of bridges throughout the various districts in Louisiana.
02/13 –08/15	**LADOTD, Retainer Contract for Bridge Load Rating, Statewide, LA, Project Manager** for this $3-million contract. LADOTD selected Stantec Consulting Ltd. to provide bridge load rating services throughout the state. Work began in 2014 and was completed in two years. This contract included load rating of more than 600 bridges. Bridge types included concrete, prestressed concrete, steel, and truss bridges, with lengths ranging from 100 feet to 29,000 feet.
02/13 –08/15	**LADOTD, Bridge Scour Project, Statewide, LA, Project Manager** of this approximate $1-million contract. The project involves analysis of scour critical bridges throughout the state, including finite element analysis using data gathered from field inspection and providing recommendation reports.

Firm employed by	WSP USA Inc.				
Name	Rebecca Davezac Howell, PE			**Years of relevant experience with this employer**	2.5
Title	Senior Water Resources Engineer			**Years of relevant experience with other employer(s)**	11
Degree(s) / Years / Specialization			BS / 2012 / Civil Engineering (Louisiana State University) BS / 2010 / Atmospheric Science (University of Louisiana at Monroe)		
Active registration number / state / expiration date			PE.0042559 / LA / 9/30/2024		
Year registered		**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Hydraulic Engineering		

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).**
	Rebecca is a civil engineer with experience in project management and design, almost entirely in Louisiana. She is committed to providing quality service to stakeholders in the private and public sector for the design, management, bidding/ contracting and construction administration for a broad range of civil engineering projects. As project manager, she is responsible for project planning, delegating, and organizing resources as well as tracking costs and managing budgets for multiple engineering projects as well as managing design teams and sub-consultants while leading complex projects. Rebecca's project experience includes HEC-RAS modeling (1D and 2D), water distribution system design, sanitary and storm water collection systems, drainage impact analysis, sanitary sewer lift station and force main design, off-system bridge replacements, subdivision, and commercial site design.
03/24- on-going	**Richmond Layover Facility, Virginia Passenger Rail Authority, CSXT CA-Line Fulton Yard, Richmond, VA, Project Engineer.** Project Engineer for preliminary engineering on a 4 track Amtrak Level II layover facility at CSXT's Fulton Yard in Richmond, VA. The project contains 3 layover tracks and 1 service platform, with 1 future track and a future service platform. Rebecca's role on the project is hydrologic and hydraulic analysis and design lead. H&H design is in accordance with current, state, and Commonwealth of VA regulations and AREMA Manual regarding drainage and stormwater management. Project elements include hydrologic analysis for the 2 –100 year storm events, pond design, and subsurface drainage improvements. This project is anticipated to move into the final design phase in early 2025.
01/21 – 05/24	**Louisiana Watershed Initiative Iberville Parish White Castle Drainage Improvements, White Castle, LA, Engineer/Technical QA/QC.** WSP is a subconsultant performing channel improvement design, development of plan and profiles and technical oversight for the LWI (Louisiana Watershed Initiative)- CDBG Grant funded White Castle Drainage Improvements Project. This project consists of the removal of accumulated sediment for approximately 4.5 miles of the channel bottom and immediate adjoining side slope to match historical grade lines. The project includes the removal of siltation above historical channel bottom grade lines and settled eroded materials on the bottom of the channel and the disposal of all excavated soils.
01/22 – 12/22	**Louisiana Gulf Terminal Mainline Extension, Confidential Client, Plaquemines Parish, LA, Project Engineer/Drainage Lead.** WSP was selected to perform 30% engineering design and permitting services for a freight rail mainline extension project. The project includes assistance with environmental approvals and development of engineering plans using Union Pacific Railroad standards to construct a nearly 9-mile mainline extension from the current NOGC terminus north of Ironton, LA to Woodland, LA in Plaquemines Parish. The project will develop the subgrade, drainage and permitting assistance to accommodate a proposed single mainline track (Phase 1) and expansion to a future double track mainline with access road (Phase 2). The project includes the construction of about 9 miles of new 136RE rail on timber track, a 7,000ft siding, shoofly alignments, and crash walls for adjacent and overhead structures while paralleling the Mississippi River. The project encompasses integration and coordination with federal, state and local public agencies and multiple private entities including Industries, Utility owners, and private land owners. Responsibilities include drainage design and utility coordination task lead.
01/17 – 03/18	**City of Central Drainage Master Plan, Central, LA, Project Engineer.** Mrs. Howell developed a drainage master plan for the city of Central following a series of local floods in 2016. The implementation of the drainage improvements recommended by

	the Master Plan will be funded by FEMA Hazard Mitigation Grant Program (HMGP). Rebecca incorporated LiDAR and topographic survey data to understand existing conditions, modeling the current system of natural and man-made drainage features, and recommending a series of capital improvements intended to manage stormwater flooding more effectively. She developed and calibrated six high-resolutions 2-dimensional hydrodynamic models for the existing conditions of Central's internal streams using the latest high-resolution LiDAR data and channel surveys. Rebecca evaluated all structures and the main channels during the 4% Annual Exceedance Probability or 25-year return interval synthetic storm event and designed improvements for structures failing to meet this level of service. The design team also identified regional detention areas which could reduce flood risk for the city. As part of this Master Plan, Ms. Howell provided direction to and coordinated with the survey team for the survey of over 160 drainage structures and over 100 cross-sections among the 5 main channels, developed HEC-HMS, 1D and 2D HEC-RAS models of the existing conditions and proposed improvements.
05/15 - 10/21	**Multiple Off-System Bridge Replacements in Calcasieu Parish: Tom Hebert Road, Amoco Road, Marcantel Road Bridge Replacement Projects, Calcasieu Parish, LA, Project Engineer.** As project engineer, Ms. Howell performed a hydrology and hydraulic study, HEC-RAS 1D modeling including scour, preliminary and final construction plans and construction cost estimate for 4 bridge off-system bridge replacement projects. Each project included the demolition of the existing bridge, channel improvements, channel protection design, roadway widening, mil and overlay approach slabs and associated roadside drainage improvements. The projects were designed accordance with the Louisiana Department of Transportation and Development Off-Systems Bridge Manual. The projects included: Tom Hebert Rd demolition and construction of a 100-foot-long bridge with cast-in-place concrete structures. Amoco Rd demolition and construction of a 80-foot-long bridge with cast-in-place concrete structures and detour road design. Marcantel Rd demolition of two wooden bridges and construction of two concrete bridges (60-foot and 80-foot long) with cast-in-place concrete structures.

Firm employed by	WSP USA Inc.				
Name	Ashwini Kashelikar, PE, CFPM			**Years of relevant experience with this employer**	14
Title	Senior Water Resources Engineer			**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization			MS / 2009 / Environmental Engineering BS / 2005 / Chemical Engineering		
Active registration number / state / expiration date			PE.0043642 / LA / 3/31/2026 (also licensed in TX); Certified Floodplain Manager		
Year registered	2019	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Hydraulic Engineering		

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).**
	Ashwini is a water resources engineer with experience in hydrologic and hydraulic modeling for a diverse range of projects including streamflow forecasting, dam break analysis, levee certification, no-rise determination, sanitary sewer analysis, stormwater design, reservoir operations, and flood risk assessment. Ms. Kashelikar has experience with ESRI GIS Software, HEC-1, HEC-2, HEC-RAS, HEC-HMS, HEC-ResSim, PCSWMM, InfoSWMM, FLO-2D, HAZUS-MH, and ICPR.
11/20 - ongoing	**Louisiana Watershed Initiative Region 3, Northeast LA, Project Manager.** Ashwini is managing the development of hydrologic and hydraulic models in four watersheds in northeast Louisiana – Boeuf River, Bayou Macon, Bayou Cocodrie and Tensas River – adding up to over 5800 square miles. The full scope of this effort has involved conducting a data gap analysis and development of detailed methodologies to model each watershed. The modeling contract also includes scoping, public outreach, hydrologic and hydraulic analyses, consequence modeling and floodplain mapping. The watershed-scale models developed by WSP for the LWI program will serve as the basis for analysis of future developments, flood mitigation feasibility studies, watershed management strategies and consequence and risk assessment. The extensive hydraulic modeling effort will include development of a combination of 1-dimensional and 2-dimensional models using HEC-RAS and covering over 4,900 square miles.
2020 - 2021	**Metro Nashville Stormwater Design, Nashville, TN, Project Engineer.** Developed a 2D model for a study area in the Green Hills neighborhood of Nashville, TN, near Ackerman Court. The hydrologic and hydraulic study analyzed the extent of flooding from a tributary to West Fork Browns Creek following rainfall events corresponding to the 2-year, 5-year and 10-year return periods. A combined 1D/2D model was developed using PCSWMM to evaluate flooding under existing and proposed conditions. Modeled proposed conditions scenarios included channel modification and culvert resizing. A video presentation was also developed to present results of the study to the affected community members.
2016 - 2021	**State of Missouri Emergency Management Agency – Watershed RiskMAP Services, Multiple Watersheds, Project Manager.** Led a team of engineers, surveyors and geographic information systems personnel in performing field survey, developing hydrologic (HEC-HMS, regression, gage analyses) and hydraulic models for over 2,000 miles of streams in several HUC-8 watersheds, performing floodplain mapping and developing Risk MAP products. Supervised development of large scale 2D HEC-RAS models in over 3600 square miles of the Meramec River, Gasconade River and Bourbuese River Watersheds. ARCO/BP, South Tank Farm Barrier Wall Installation, East Chicago, Indiana, Engineering Design Services and Site Assessment

2012 - 2023	**SRWMD FEMA Risk MAP Program, Suwannee River Water Management District, Live Oak, FL, Multiple Watersheds, Lead Engineer.** Lead engineer for the Lower Suwannee, Upper Suwannee, Santa Fe, Withlacoochee, and Waccasassa Watershed Risk MAP projects. Responsibilities have included developing and reviewing survey plans and supervising the execution of approximate and detailed studies for both riverine and closed basin flooding sources. Most recently, Ms. Kashelikar has led the large scale 2D modeling effort in over 800 square miles of the Santa Fe River watershed. The modeling effort has involved the use of both ICPR and HEC-RAS. Ashwini has led the large scale 2D modeling effort in over 800 square miles of the Santa Fe River watershed. The modeling effort has involved the use of both ICPR and HEC-RAS.
2014 - 2018	**USACE Vicksburg District, USACE MMC Production Center - Corps Water Management System (CWMS) Model Development, Multiple Geographies, Watershed Lead/Project Engineer.** Supervised the development of HEC-HMS, HEC-RAS, HEC-ResSim, HEC-FIA models and integration into CAVI in Thames River and Chemung River watersheds. As a project engineer, developed and calibrated HEC-RAS models in the Big Sandy River and Blackstone River and Pecos River watersheds and refined the HEC-ResSim model in the Yazoo River watershed.
2009 - 2013	**State of Alabama ADECA OWR - Upper Alabama and Middle Coosa Watershed Risk MAP, Montgomery, AL, Watershed Lead/Project Engineer.** Performed detailed hydraulics studies (HEC-RAS) for streams in Elmore and Autauga counties. Ms. Kashelikar also developed a FLO-2D model to route overflow from Mill Creek in Elmore County, AL and determine the resulting extent and depth of flooding within the City of Millbrook. In Talladega County, Ms. Kashelikar supervised the development of HEC-HMS, regression and HEC-RAS studies and managed the production of non-regulatory flood risk products associated with FEMA's RiskMAP projects.

Firm employed by	WSP USA Inc.				
Name	Sravya Suryadevara			**Years of relevant experience with this employer**	5.5
Title	Traffic Lead			**Years of relevant experience with other employer(s)**	12
Degree(s) / Years / Specialization			MS / 2006 / Civil Engineering		
Active registration number / state / expiration date			PE: (037505) / NC / 12/31/2024		
Year registered		**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Traffic Engineer		

Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Sravya has more than fifteen years of experience and has developed the skills to lead projects in transportation engineering. She has experience working in public and private sectors that include the state departments of transportation, municipal governments, private developers, private engineering, and land development firms. Sravya provides technical expertise in transportation planning, traffic forecasting, capacity analysis, safety analysis, roadway functional designs, and modeling of transportation systems. Recent experience includes working on on-call transportation projects involving both design and construction solutions. Sravya possesses excellent project and team management skills, allowing her to effectively communicate and facilitate tasks with team members involved in every aspect of the project. She has successfully administered several projects for both public and private sector clients. Sravya has also participated in the development of several public involvement plans and attended several public meetings.
	Green Level Church Road Engineering Services, Raleigh, NC, Project Manager who led the traffic impact analysis for a proposed 13.75-acre warehouse and office development in Town of Cary. The proposed development consisted of approximately 124,500 square feet warehousing and 74,000 square feet general office. The trip distribution of anticipated truck traffic needed special attention due to existing load bearing restrictions on the some of the roadways within the study area. WSP is providing traffic engineering services for the proposed 11724 Green Level Church Road development located near the southwest quadrant of the North Carolina Route 55 and Green Level Church Road intersection and prepare a traffic impact analysis. The proposed development is expected to include the following land uses: a 95,000-square-foot general office; and 95,000 square feet of warehousing.
2017	**2017 On-Call General Engineering Consultant - Traffic Planning, NC, Lead Traffic Engineer.** WSP is providing the North Carolina Department of Transportation with planning and design limited services contracts for the Division of Highways located in Raleigh, North Carolina. Under this on-call contract, the firm has provided the various units and departments within the Division of Highways with planning and engineering services on an as-needed basis to include preparation of environment documentation, public involvement, right of way and construction plans development, traffic forecast and analysis, utility coordination and design, right of way purchasing, contract administration, and project management.
2017	**2017 On-Call Traffic Forecast Services, Raleigh, NC, Lead Traffic Engineer.** WSP provided traffic forecasting services for this North Carolina Department of Transportation on-call contract. This project included forecasts in the following metro areas: Charlotte, Greensboro, Fayetteville, Winston-Salem, Durham, and Raleigh. These forecasts were generated using traffic counts, historical data, and travel demand model runs, and then used to score projects on the screening of passengers by observation techniques program or move projects through the National Environmental Policy Act process to planning and design.

Firm employed by	WSP USA Inc.				
Name	Paul Lutkevich, PE			**Years of relevant experience with this employer**	26
Title	Senior VP, Lighting Design, Senior Engineering Manager			**Years of relevant experience with other employer(s)**	13
Degree(s) / Years / Specialization			BS / 1982 / University of Massachusetts-Dartmouth		
Active registration number / state / expiration date			Professional Engineer: MA (38509) exp. 6/30/24		
Year registered	1995	**Discipline**	Electrical		
Contract role(s) / brief description of responsibilities			Lighting/Aesthetics		

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).**
	Paul Lutkevich is a Technical Director and Professional Fellow for lighting design at WSP | Parsons Brinckerhoff. He has over 40 years of experience in design and construction of infrastructure systems including roadways, tunnels, pedestrian facilities, and transit systems. He is actively involved in the development of national and international standards for outdoor lighting. Paul was also a member of the US delegation in the FHWA/AASHTO Bilateral Lighting Technology Exchange Program between outdoor lighting experts and international organizations in Europe. He has been involved in research with the FHWA investigating topics concerning lighting and safety, adaptive lighting implementation, visualization techniques, environmental and health impacts of lighting, and context sensitive solutions. He has written and spoken extensively about outdoor lighting including urban lighting, lighting for pedestrians, aesthetic considerations in outdoor lighting, and lighting for safety. He is a co-author for the Transportation Association of Canada's outdoor lighting standards which used the latest research from North American and international sources to compile a comprehensive design guide for the outdoor environment. He is Task Lead for Highways and Interchanges as well as Street Lighting for the IES Roadway Standard Practice Committee writing IES RP-8. He also was the lead researcher for the revisions to the FHWA Roadway Lighting Handbook and is lead researcher for the NCHRP Solid State Lighting Guidelines and assisting AASHTO in the writing of AASHTO SSLG-1 Solid State Lighting Guide as well as the new AASHTO GL-8.
07/20 - ongoing	**LADOTD, Contract for Innovative Procurement and Alternative Delivery Support Services, LA | Lighting Design/QC.** This project includes provision of engineering, financial management, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management as Risk, and/or Public Private Partnership (P3) Projects. The current effort includes leading the procurement of the $ 1 billion Calcasieu Bridge in Lake Charles, Louisiana. Included in the effort is a Level 2 Toll Study. The Calcasieu Bridge is one of the most critical projects in Louisiana's Transportation System as well as along the I-10 East West Trade Route. It has been identified as detrimental to economic development.
1/20 - ongoing	**FDOT, Pensacola Bay Bridge Replacement Design-Build, Pensacola, FL | Lead Lighting Designer** for the aesthetic and roadway lighting for the Penbay Bridge. Aesthetic lighting included color change/dynamic lighting effects for the bridge structure. WSP is providing design services to replace the 3.7-mile existing bridge with twin structures featuring wishbone-tied arch main spans and lowered 10-foot-wide shared-use paths. Detailed piers, color-changing light-emitting diode lighting, decorative railings, and surface finishes will further enhance the architectural theme of the bridges. The project is replacing the signalized interchange at U.S. 98 and 17th Avenue with a direct connection from U.S. 98 to the Pensacola Bay Front Parkway and Interstate 110. Improvements are also being made to the Gulf Breeze Wayside Park.
2016 - ongoing	**MDOT, Metro Region Freeway Lighting Public Private Partnership, Detroit, MI | Technical Advisor** for project to upgrade freeway within the entire Michigan Metro Region in Michigan under a Public Private Partnership (P3) contracting structure—MDOT's first P3. The work addressed lighting equipment, electrical circuiting and controls on ramps, interchanges, underpasses, and main line for 120 miles of freeway, including ramps, underpasses, interchanges, and 10 roadway tunnels. The 15-year term design, build, finance, operate, and maintain project upgraded of over 16,000 luminaires and minimized future maintenance cycling, reduce energy consumption by more than half, and modernizes roadway illumination to AASHTO standards. The project investigated and selected

	new LED equipment that replaced existing high-intensity discharge lamps, replaced missing and damaged poles, restored damaged median pole foundations, and upgraded damaged circuiting, all within a two-year construction window.
12/19 - ongoing	**MassDOT, I-93 Southeast Expressway Relighting Project (Phase 1 and 2), Boston, MA |** Lighting Designer responsible for construction documentation, design and production, and construction coordination for the eight-lane freeway that included a moveable high-occupancy vehicle (HOV) lane. The lighting design included several design ideas, all of which need to be demonstrated to meet local and national standards for freeway lighting design. The lighting replacement involved using existing structural infrastructure as well as repair or replacement of exiting barriers and foundations for lighting pole assemblies. This included unique challenges for traffic management and repair procedures due to constraints for lane closures on an active and heavily congested highway system. Median barrier and foundations on bridge decks offered a unique challenge on the 30 plus year old barrier while working on a heavily congested expressway. WSP was heavily involved in construction and supporting the efforts closely with the District and Contractor. This project has also developed into a second Phase extending the relighting and foundation replacements another 4.5 miles south. This work includes several bridge decks, wetlands, and residential areas. This Phase 2 work is currently in construction
1/21 - ongoing	**Mass DOT, Multiple Highway Lighting Projects, Boston, MA | Project Manager** for an on-call lighting contract with the Massachusetts Department of Transportation (MassDOT). Work included relighting I-93 in Boston, providing lighting workshops for MassDOT, and electrical replacement for lighting systems along Route 128. WSP is providing rehabilitation services to the lighting systems on State Route 3 in Braintree and Quincy as well as on Interstate 93 in Boston, replacement of lighting control equipment on Interstate 93 in the Milton Tunnel, and rehabilitation of Interstate 91 lighting systems in Springfield, Massachusetts.
05/14	**MassDOT, LED Street Lighting Conversion, Cambridge, MA | Lead Lighting/Electrical Designer** for the citywide replacement of the city's streetlighting system with LED streetlights and an adaptive control system for monitoring and dimming the streetlights during low pedestrian periods. The conversion cut the city's power costs and maintenance to more than half. Client: City of Cambridge.
06/21 – 02/23	**Federal Highway Administration Roadway, Lighting Handbook, Nationwide | Lead Researcher/Author** of the current and newly released revised Federal Highway Administration lighting handbook providing guidance to lighting designers and state, city, and town officials concerning the design and application of roadway lighting. WSP was retained by Federal Highway Administration to provide guidance to lighting designers to address the concerns and issues of roadway lighting.
2022	**Federal Highway Administration, Lighting Workshop | Developer & Instructor** for a comprehensive 3 day training workshop for FHWA safety engineers relating to infrastructure lighting to be used by FHWA to inform safety professionals and state and municipalities responsible for lighting of all aspects of lighting systems and their impact on safety and the environment.
2017 - 2020	**National Academies of Science, National Cooperative Highway Research Program, Solid State Lighting Guide | Lead Researcher** for the development of a Solid State Lighting Guide including recommendations for various lighting metrics, adaptive and Smart lighting systems, health and environmental impacts, safety, and pedestrian and cyclist considerations. Research was the basis for AASHTO SSLG-1 Solid State Lighting Guide.

Firm employed by	WSP USA Inc.				
Name	Peter Liebowitz, AICP			**Years of relevant experience with this employer**	8
Title	Senior VP, Environmental Planner			**Years of relevant experience with other employer(s)**	32
Degree(s) / Years / Specialization			MS / 1984 / Urban Planning		
Active registration number / state / expiration date			AICP (American Institute of Certified Planners)		
Year registered	1987	**Discipline**	Planning and Environmental Impact Assessment (NEPA)		
Contract role(s) / brief description of responsibilities			Environmental/NEPA		

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).**
	Peter brings 40 years of industry experience. He has been involved in the preparation of hundreds of environmental and planning assignments over his 40-year career and is currently WSP's national business lead for impact assessment. He is certified to teach NEPA, Environmental Justice, and PEL courses as part of a National Highway Institute coursework. His practice involves a wide range of assignments, including directing and managing environmental impact assessments for large-scale transportation, infrastructure, and development projects. He also provides economic and market analyses for public and private investments, and a wide range of development and planning services, including site plan and zoning reviews, expert testimony, and economic development initiatives. Peter is a full member of the Urban Land Institute and has served in leadership roles on both the national and district council levels.
09/22 - ongoing	**Honopiilani Highway Improvement Projects, Maui, Hawaii.** Peter is leading the preparation of NEPA EIS documentation for this highway improvement project with Hawaii DOT as sponsor and FHWA as lead agency. The project's purpose is to relocate six miles of the main transportation corridor to West Maui based on coastal erosion and sea level rise that has created ongoing damage and road closure conditions**.** The EIS is a comprehensive assessment with notable key issues associated with the Section 106 process regarding archeological and architectural resources, Section 7 and natural resources, Section 4(f) use changes, and potential for effects on Environmental Justice populations.
06/23 - ongoing	**NEPA Strategy Planning, Austin, TX.** Peter is part of broader consulting team working on NEPA compliance for the proposed CHIPS grant funding on behalf of the manufacturer. This has involved coordination with the NEPA lead agency (Department of Commerce), legal counsel, and the project design team. Important issues include workforce development, traffic and infrastructure concerns and permitting requirements.
06/19 - 6/24	**CBD Tolling Program, New York City, NY.** For the Metropolitan Transportation Authority, Peter was the initial Project Manager coordinating the firm's efforts in development of the comprehensive regional travel demand model to estimate the changes travel by mode based on the tolling program as well as to initiate the NEPA process. The environmental assessment examined the traffic, transit, air and noise effects of this mode share, as well as the potential for social and economic impact including on environmental justice populations. The built infrastructure for tolling system is being evaluated for potential impacts on land use, open space and parklands, visual impacts, historic resources and Section4(f) lands.
2017-2018, 2014-2016	**I-81 Viaduct Replacement Project, Syracuse NY**. Peter provides advisory planning input to the WSP tunnel feasibility and, at the request of NYSDOT leadership and the Governor's office, Mr. Liebowitz led the presentation of study findings to the I-81 project leadership, NYSDOT leadership, and local elected officials. Prior to joining WSP, Peter also led the socioeconomic analyses as part of alternatives development and screening, scoping, and the initiation of EIS technical studies (for FHWA as NEPA lead agency). In this capacity, he was the prime facilitator in stakeholder outreach meetings for economic development opportunities as part of the billion-dollar transportation investment.
2011 - 2012	**Tappan Zee Hudson River Crossing Project, Westchester and Rockland Counties, NY.** Prior to joining WSP, For the AKRF team that managed the 11 month fast-track NEPA (FHWA) and SEQRA (NYSDOT, NYSTA) EIS, Mr. Liebowitz oversaw several of the socioeconomic and planning technical chapters, including: induced growth, environmental justice, socioeconomic conditions, and property acquisition. Peter also led the firm's work in preparing the cost-benefit analyses in support of project financing.

06/2018 – 6/2020	**National Disaster Resilience Program Resilient Bridgeport Project, Bridgeport, CT.** Peter served as Project Manager through completion of 60 percent design as well as the Record of Decision in finalizing the NEPA process with HUD serving as lead agency. Support included stakeholder engagement process, project website management, and communication and technical advisory committee staffing; identification and analysis of infrastructure project alternatives; completing an environmental impact statement, preliminary design for the preferred alternative; and an energy feasibility study for Bridgeport's south end.
2020	**Great Smoky Mountain National Park, Mountain Biking Facility, TN**. To advance a proposed mountain biking development within the perimeter park area around the Great Smokey Mountain Park, an economic assessment was completed to analyze likely expenditures and economic activity generated by the new facility. Peter helped generate the scope and approach and oversaw the planners assigned to develop precedent economic studies and determine expenditure patterns for the anticipated visitor demand.

Firm employed by	WSP USA Inc.				
Name	Fay Canright			**Years of relevant experience with this employer**	2.5
Title	Environmental Engineer			**Years of relevant experience with other employer(s)**	16
Degree(s) / Years / Specialization			BS / 2002 / Biological Engineering		
Active registration number / state / expiration date			SafeLand Certification; TWIC Certified		
Year registered		**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Permitting		

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).**
	Fay has more than 18 years of experience in waste management, permitting, compliance support, soil and groundwater delineation/remediation, litigation support, compliance, oil and gas, and due diligence projects. She has experience in the refinery setting completing investigations, remediation, waste support, and environmental facility audits. Fay has managed more than 50 retail, industrial, and exploration and production projects. For projects involving litigation support, she has provided support in topics such as fate and transport, rainfall/runoff, erosion, corrosion, landslides, acid rock drainage, hurricane damage, and oil and gas legacy lawsuits.
2021 - ongoing	**International Paper, Aerated Stabilization Basin and Closed Landfill, Bastrop, LA, Project Manager.** The Closed Aerated Stabilization Basin and Closed Landfill are under assessment in the solid waste regulations. Project duties include regulatory liaison, evaluation of Risk Evaluation/Corrective Action Program (RECAP) standards, evaluation of groundwater flow direction, review of historical boring logs, evaluation of sand interval and clay interval, semiannual assessment groundwater sampling, data review and evaluation, QA/QC, groundwater statistical evaluation, publicly owned treatment works sampling and reporting, and permit support during the legal process.
2023 - 2024	**Bunge North America, Project Support, St. Charles, LA, Project Manager.** Provided permitting support for an industrial permit through St. Charles Parish. Duties included application preparation, client liaison with St. Charles Parish, Parish meetings, management (permitting progress) of the list of permits required for the entire preconstruction project. Preparation of drainage calculations for the proposed construction area. Assistance with preparation of Stormwater Pollution Prevention Plan and subsequent approval by St. Charles Parish. Additionally, assisted with obtaining free disposal of topsoil through a local landfill to use the topsoil as daily cover (cost savings to Bunge).
2022 - 2023	**Greenway Environmental Services, Fayette, MS, Project Manager** for Greenway Environmental Services, Fayette Landfill located in Fayette, Mississippi. Prepared 10-year solid waste permit renewal application, compliance work including stormwater sampling/reporting (NetDMR), air reporting, methane monitoring, and review of profiles for incoming industrial waste. Assisted with meetings with the Mississippi Department of Environmental Quality with the approval of additional cells for the landfill.
2012 - present	**Benoit Premium Threading, Houma, Louisiana, Project Manager** for Benoit Premium Threading for the Houma, Louisiana facility. Project duties included annual facility audits pursuant to Spill Prevention, Control, and Countermeasure and Storm Water Pollution Prevention Plan requirements. Project duties included design and control of three stormwater discharge outfalls, Spill Prevention, Control, and Countermeasure/ Storm Water Pollution Prevention Plan annual training, and Tier II reporting.
2022	**Olin Corporation, Project Support, Freeport, TX, Project Manager.** Conducted internal facility permitting audit in areas of wastewater, stormwater, Spill Prevention, Control, and Countermeasure, water pollution, and drinking water.

2017 - 2021	**YCI Methanol One (aka Koch Methanol), St. James, LA, Project Manager** for YCI Methanol One from 2017 to 2021. Project duties included preparation of Storm Water Pollution Prevention Plan, weekly Storm Water Pollution Prevention Plan inspections and reports, Louisiana Pollutant Discharge Elimination System Notice of Intent for industrial processes and stormwater discharges, sampling of permitted outfalls, preparation of Solid Waste Permit Application for possibly converting Ponds 1 and 2 in Solid Waste Units, and preparation of Spill Prevention, Control, and Countermeasure for the facility and terminal. *(completed at another firm)*
2007 - 2021	**Aspect Energy, Prairie Land Company No. 1, Lake Charles, LA, Project Manager** for Aspect Energy from 2007 until 2021 for the Prairieland Company No. 1 Well Site in Lake Charles, Louisiana. A newly installed natural gas well blew out at a 1,000 feet bgs and fissured through the three Chicot Aquifers discharging natural gas and condensate into the aquifers. Project duties included litigation support, regulatory liaison with Louisiana Department of Natural Resources, Risk Evaluation/Corrective Action Program Assessment, groundwater monitoring, installation of deep monitoring wells (800 feet bgs), evaluation of electric logs, pump and treat remediation, ozone infused water injection remediation, data review and evaluation, QA/QC, outfall sampling and reporting, and UIC Class V injection well permits. *(completed at another firm)*
2012 - 2015	**Phillips 66, Lake Charles, LA, Project Manager** for Phillips 66 at the Westlake Facility wherein the site was impacted with 1,2-dichloroethane (EDC) or tetrachloroethene (PCE). Project duties included a pilot test of anaerobic organisms injection into the groundwater zone. Remediation of the areas included direct injection of an electron donor and anaerobic organisms. Groundwater monitoring is used to evaluate the effectiveness of the injections. Additional work included the installation of a biobarrier wall system to intercept the downgradient portion of the plume.
2010 - 2021	**30+ UST Sites, Statewide, LA, Project Manager** for more than 30 UST sites across Louisiana for companies such as Circle K, RaceTrac and Chevron. Project duties included soil and groundwater delineation, Risk Evaluation/Corrective Action Program evaluations, remediation feasibility studies, remediation design, remediation implementation, report preparation, client/agency interface, Louisiana Pollutant Discharge Elimination System permitting, sampling, and reporting, third party contact for conveyance notices and access agreements, field activities, and UIC Class V Injection Well Permits.
2006 - 2021	**Phase I Assessments, Various Clients, Statewide LA, MS, AL, TX, Project Manager.** Conducted site assessments in accordance with ASTM E1527 00, ASTM E 1527 05, ASTM E1527 13, and ASTM E1527-21; conducted Phase I Environmental Site Assessments for various sites which included E1527 21 requirements and non-scope considerations such as air emissions, radon, wetlands, asbestos identification, and lead-based paint identification.

Firm employed by	WSP USA Inc.				
Name	Nafi Haque, PE			**Years of relevant experience with this employer**	1
Title	Senior Geotechnical Consultant			**Years of relevant experience with other employer(s)**	6
Degree(s) / Years / Specialization			PhD / 2016 / Geotechnical Engineering MS / 2012 / Geotechnical Engineering		
Active registration number / state / expiration date			PE.0033680 / LA / 9/30/24		
Year registered	2022	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Geotechnical		

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).**
	Nafi Haque is a senior geotechnical and tunnel engineer in Baton Rouge. His experience includes a wide range of skills and expertise, including deep knowledge of soil mechanics, soil foundation, and geotechnical design. Nafi is proficient in designing deep foundations such as piles and drilled shafts, as well as shallow foundations according to local design codes such as LADOTD, AASHTO, and US Army Corps standards. His technical responsibilities have involved planning and managing all phases of geotechnical engineering, including logging, and classifying soils on geotechnical drilling explorations, installing and reading geotechnical instrumentation, field supervision, documenting geotechnical and foundation installation and testing observations, and preparing geotechnical engineering reports. He is also experienced in LRFD design procedures and resolving geotechnical and pavement technical issues such as settlement, downdrag, slope stability, and lateral squeeze. Nafi is skilled in soil-pile instrumentation, interpretation, and analysis of load results using methods like CAPWAP and static load tests.
07/22 – 02/24	**I-10 Calcasieu River Bridge Public-Private Partnership (P3) Project: Lake Charles, LA (Procurement Phase), Geotechnical Engineer.** Served as the lead geotechnical designer for this design-build project. The objective of this project is to construct the new Interstate 10 Calcasieu River Bridge in Lake Charles, estimated at $2.1 billion. The project includes a 5.5-mile corridor from near Ryan Street in Lake Charles to the I-210 and I-10 interchange in Westlake. It encompasses the new bridge and approaches, interstate roadways and ramps, I-10 service roads, and interchanges at PPG Drive, Sampson Street, and North Lakeshore/Ryan Street. Notable improvements over the existing bridge, which was built in the 1950s, include wider lanes, full shoulders, roadway lighting, and lower, less steep approaches. (prior to joining WSP)
04/22 – 02/24	**Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership (P3) Project: Belle Chasse, Plaquemines Parish, LA, Geotechnical Engineer.** Provided comprehensive geotechnical service for this design-build project. The purpose of the project is to replace the existing Belle Chasse Tunnel and vertical-lift Judge Perez Bridge crossing the Gulf Intracoastal Waterway (GIWW) on LA 23 with a new mid-rise fixed-span four-lane bridge and ancillary connector roadways. This replacement aims to maintain or improve modal interrelationships between vehicular traffic on LA 23 and maritime traffic in the GIWW. The project includes designing and constructing an aesthetically pleasing four-lane mid-rise fixed-span bridge over the GIWW, including a pedestrian walkway and street lighting; widening the Algiers Canal bridge; improving the intersection of LA 23 (Belle Chasse Highway) and Engineers Road (LA 3017); constructing a new on-ramp from X Street to LA 23 northbound; developing a new project-specific toll revenue collection system; providing operation and maintenance (O&M) during construction and for the O&M term; and demolishing (removing/decommissioning) the existing Belle Chasse Tunnel and vertical-lift Judge Perez Bridge. (prior to joining WSP)
04/22 – 12/24	**Loyola Dr./Interstate 10 (I-10) Interchange to New Airport Terminal (LANOIA) Design- Build: Kenner, LA, Geotechnical Engineer.** Provided comprehensive geotechnical service for this design-build project. The purpose of this project was to realign the I-10 intersection at Loyola to create a multi-level, controlled-access interchange. This interchange includes two overpass bridges on I-10 over at-grade Loyola, with signal- controlled eastbound and westbound on- and off-ramps. The project's objective is to enhance the intersection for the relocation of the I-10 exit to Loyola Drive from Williams Boulevard, in preparation for the new terminal at New Orleans International Airport. This involves modifying existing ramps, constructing a new multi-level interchange with a mix of at-grade and elevated ramps, including two one-way elevated flyovers and a

	diverging diamond at- grade interchange (DDI) on Loyola Drive. Additionally, the project includes adding auxiliary lanes along I-10 between Loyola Drive and Williams Boulevard, implementing necessary noise barriers, and upgrading Loyola Drive to accommodate the interchange improvements and connect to the LANOIA Airport Access Road (AAR). (prior to joining WSP)
05/23 – 10/23	**I-10 Overpass over US 165: Iowa, LA, Geotechnical Engineer.** Evaluated embankment surcharges for a portion of the I-10 Widening project in Jefferson Davis and Calcasieu Parishes, near Iowa, Louisiana. Gilchrist is providing construction services to the Louisiana Department of Transportation and Development (DOTD) for this project, which involves removing and replacing overpass structures on I-10 over US 165 and the MPRR. Evaluated the surcharge timeframe and stability for the proposed larger surcharge at each approach embankment. (prior to joining WSP)
07/19 – 12/21	**I-220/ I-20 Interchange Improvement and Barksdale Access Road, Bossier Parish, LA, Geotechnical Engineer.** A project that includes three major components. First, a twin overpass bridge structure will be built over I-20, connecting to the existing I-220 to the north and crossing the Musselshell Bayou to the south. Second, two loop ramps will provide access to and from I-220 and I-20. Finally, an access road will be constructed from the interchange to the Barksdale Air Force Base (BAFB), crossing the Kansas City Southern (KCS) railroad. The project also involves converting the I-220 / Barksdale Road Northbound exit to the I-20 westbound entrance. This will be done by replacing the current elevated semi-direct flyover ramp with an at-grade loop ramp. Additionally, the collector-distributor road for the I-20 westbound exit will be extended to the I-220 southbound entrance. This extension will connect northbound to westbound traffic to the I-220 Southbound to I-20 Westbound entrance ramp. (prior to joining WSP)
05/22 – 12/22	**Lafayette Utilities System (LUS) Sewer Lift Station, Lafayette, LA, Geotechnical Engineer.** Provided geotechnical services for a proposed sewer lift station in Lafayette, Louisiana. The project involved constructing a new wet pit/dry pit sewer lift station at the University of Louisiana, Lafayette campus. Conducted soil exploration and completed a soil investigation to provide foundation recommendations. (prior to joining WSP)
08/22 – 02/23	**Lafayette Utilities System (LUS) Commission South Water Plant, Lafayette, LA. Geotechnical Engineer.** Conducted geotechnical services for the Lafayette Utilities System (LUS) South Water Treatment Plant in Lafayette, Louisiana. The project involves adding a new pre-stressed concrete water tank with a proposed height of 34 to 38 feet and an outside diameter of 100 feet, adjacent to an existing tank. Performed subsurface exploration, laboratory testing, and provided foundation recommendations for the water treatment plant. (prior to joining WSP)
08/22 – 05/23	**South Grand Chenier-Baker Marsh Creation (ME-32), Cameron Parish, LA. Geotechnical Engineer.** Provided geotechnical recommendations for a marsh creation project in Cameron Parish, Louisiana. The project aims to create and nourish approximately 420 acres of marsh using hydraulically dredged fill from the Gulf of Mexico. This material will be placed in a designated area formed by constructing earthen containment dikes. The project addresses marsh degradation and land loss, focusing on creating new wetland habitat and restoring degraded marshes in an area suffering from limited freshwater input and seasonal salinity spikes.

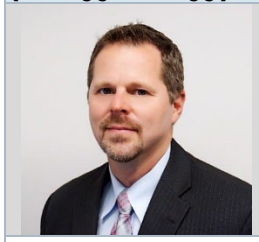
Firm employed by	WSP USA Inc.				
Name	Theodore (Ted) Smith			**Years of relevant experience with this employer**	3
Title	Estimating			**Years of relevant experience with other employer(s)**	26
Degree(s) / Years / Specialization			MS/ 2006 / Civil Engineering BS / 1998 / Civil Engineering		
Active registration number / state / expiration date			PE #PE087754 / PA / 9/30/2025; Certified Estimating Professional (AACE); Planning and Scheduling Professional (AACE); FHWA-NHI Value Engineering Cert.		
Year registered	2018	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Cost Estimating		

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).**
	Ted is the National Estimating Manager for WSP. He is a cost estimator with over 25 years of experience providing construction support services for heavy civil, roadway, marine, railroad, mass transit, and various other types of construction projects. He is skilled at estimating, scheduling, constructability review, value engineering, and risk assessment. He has led teams to develop complex project estimates and schedules and to devise alternative methods that improve safety and reduce construction costs and duration. Ted has also planned and managed construction operations such as utility and pile installation, bridge and retaining wall construction, demolition and rehabilitation work, excavation support systems and excavation, false work and shoring installation, marine construction, road construction, and other associated construction activities
2022 - ongoing	**FHWA Office of Operations Advisory Services IDIQ 2022-2027, Washington, DC. Cost Estimator.** WSP is providing advisory services to assist the client in building a strong foundation for proactive operations, managing congestion by improving reliability, enhancing reliability through efficient freight movement, and augmenting disabled traveler mobility.
2021 - ongoing	**SANDAG On-Call Architectural and Engineering Services, San Diego, CA, Cost Estimator.** WSP is providing general engineering on-call services to support the development of transit and highway projects for SANDAG. The scope of work involves conceptual design, preliminary engineering, project management, and construction management services for the Otay Mesa East Land Port of Entry, the Border to Bayshore bikeway, Mid-Coast light rail vehicle procurement, and East County bus maintenance facility. WSP is providing design services for the construction facility, and a feasibility study for a connector from the convention center to the airport skyway.
2021	**Commuter Rail Fiber Optic Resiliency Design Build Project, MBTA, MA, Cost Estimator.** The project is for the design, supply, installation, and testing of new fiber optic resiliency systems on the North Side Commuter Rail Lines (approximately 157 route miles of active railroad), and the South Side Commuter Rail Lines (approximately 82 route miles of active railroad). The project scope includes installation of one 96-strand cable, plowing of three 1.5-inch innerducts, duct installation by hand digging, directional boring, or direct installation, where plowing is not possible, fiber optic cable splicing and extension to existing signal houses / cases, handholes, and manholes.
2021	**On-Call A/E Estimating Services, WMATA, Washington, DC, Lead Cost Estimator / Agreement and Subconsultant Project Manager**. Providing independent cost estimating services to support Washington Metropolitan Area Transit Authority's (WMATA) $15 billion dollar infrastructure improvement program, which includes platform and station rehabilitation, fair collection system upgrades, track structure repairs, and new tunnel access expansion.
2021	**LA Metro Regional Connector Transit Corridor, FTA, Los Angeles, CA, Cost Estimator / Risk Assessor.** The estimated $1.55 billion project will construct a 1.9-mile-long LRT line that will link the Gold Line and Little Tokyo/Arts District Station to the 7th Street/Metro Center Station downtown for the Los Angeles County Metropolitan Transportation Authority (Metro). The project also involves utility relocation, tunneling, construction of three underground stations, and procurement of four light rail vehicles. Urban is the Federal Transit Administration's (FTA) PMOC for the project to provide ongoing design, construction, contracts, cost, and scheduling evaluations, risk assessment, as well as other consulting services.

Firm employed by	WSP USA Inc.				
Name	Fanny Padron			**Years of relevant experience with this employer**	4
Title	Project Controls Manager			**Years of relevant experience with other employer(s)**	20
Degree(s) / Years / Specialization			MS / 1998 / Civil Engineering		
Active registration number / state / expiration date			Certified Architect: VE		
Year registered		**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			Scheduling		

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).**
	Fanny is a project controls manager at WSP. She provides project management, technical direction, and leadership on projects including civil construction, aviation (landside and airside), transportation, telecommunications, nuclear, and environmental services for projects located in the United States, the Middle East, and South America. Fanny has experience leading project execution, procurement, and financial management on projects ranging from $500K to $360M. She has also led government and private sector multidisciplinary teams in the United States and overseas. Fanny has proven her ability to communicate with clients, contractors, and government agencies to meet or exceed schedule and budget expectations.
03/20 – 04/28	**TUS Airport Design Build Program, Project Controls Lead**, responsible for managing Program master schedule and contractors' schedules. Monitor Design and construction progress. Review/ Approve contractor's schedules. Prepare weekly and monthly client reports. Manage forecast trends and communicate to project team any deviations from plan, critical path changes, risks, delay analysis and provide mitigation plans. Work with team to provide alternative delivery analysis and recommendations to mitigate delays.
10/20 – 05/22	**Sound Transit Downtown Seattle Transit Tunnel General Engineering Consulting Services, Seattle, WA, Project Controls Lead** responsible for schedules and controls professionals on this project. Fanny's tasks involved CPM planning and scheduling, EVMS, forensic scheduling, and risk management. WSP is leading the Downtown Seattle Transit Tunnel General Engineering Consulting Services project focused on program development, management, and delivery of the state of good repair program for the Downtown Seattle Transit Tunnel facility. This contract will retrofit the existing tunnel through downtown Seattle (originally designed by WSP in the 90s). The project has two phases: Phase 1 focuses on developing the state of good repair and capital improvement program within the tunnel, and Phase 2 delivers the program's projects on a task order by task order basis.
05/22 – 05/23	**MARTA Planning & Technical Services Contract - Transit Hubs, Atlanta, GA, Senior Scheduler.** As part of the 30% and 60% Design packages, she developed the design, procurement, and construction schedules for Clayton and South DeKalb Counties.
10/20 – 05/22	**WSDOT I-405 BRT and OM Facility, Seattle, WA, Project Controls Lead** responsible for schedules and controls professionals on this project. Fanny's tasks involved CPM planning and scheduling, EVMS, forensic scheduling, and risk management. WSP provided planning and preliminary design services for the I-405 project to bring BRT services within the I-405 corridor. The transit services were operated in controlled and bus-only lanes for 37 miles. The project included design elements for stations and parking garages, programmatic BRT elements, a bus OM facility, integration for vehicle identification, branding, ride information and technology systems.
04/20 – 09/20	**Chicago Transit Authority Construction Management Services, Chicago, IL, Project Controls Lead** responsible for schedules and controls professionals on this project. Fanny's tasks involved CPM planning and scheduling, EVMS, forensic scheduling, and risk management. WSP is providing construction management services for the infrastructure projects. Many of the tasks under this contract are associated with the Red and Purple Modernization Program.

Firm employed by	WSP USA Inc.				
Name	David (Jeff) Chenault			**Years of relevant experience with this employer**	26
Title	Traffic Engineer			**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization			BS / 1992 / Civil Engineering		
Active registration number / state / expiration date			PE #6201051870 / MI / 11/2/2024 ; PE #49459 / MN / 6/30/2024 ; PE #052913E / PA / 9/30/2025		
Year registered	2004 (MI); 1998 (PA)	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Technical Requirements		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	David (Jeff) Chenault's extensive experience includes developing engineering solutions through applying lessons learned for a variety of engineering projects, including freeways and freeway interchanges, urban arterials, rural freeways, intelligent transportation systems deployments, bridge reconstruction and rehabilitation, environmental studies, and quality assurance/quality control reviews. Jeff has provided these services using both traditional design-bid-build and alternative delivery methodologies such as design-build and public-private-partnerships.
08/17 - ongoing	**I-75 Modernization Project, Detroit, MI, Project Manager** for the preliminary engineering and development of the design-build procurement documents to widen a portion of TH 371 from two lanes to four lanes, and construct approximately 7 miles of new alignment through the cities of Pequot Lakes, Nissawa, and Jenkins. Jeff was also the lead technical writer for the development of the instructions to proposers, Book 1 (contract), Book 2 (project requirements), Book 3 (project specifications), and the request for qualifications. Additionally, he was responsible for coordinating with the Minnesota Department of Transportation and preparing addenda to the procurement documents. WSP was the owner's representative for the modernization of approximately 18 miles of Interstate 75. The modernization included Michigan's first high-occupancy vehicle lane. WSP was responsible for project management, planning and environment, traffic and intelligent transportation systems, engineering and construction, alternative delivery financing and procurement, stakeholder engagement, and public information administration.
04/12 – 04/17	**T.H. 371 Four Lane Expansion D/B Project, MN, Project Manager** for the preliminary engineering and development of the design-build procurement documents to widen a portion of TH 371 from two lanes to four lanes and construct approximately seven miles of new alignment through the cities of Pequot Lakes, Nissawa and Jenkins. The project also included construction of a grade separated interchange at CSAH 11 on the new TH 371 alignment, construction of two roundabouts, construction of a new pedestrian overpass for the Paul Bunyan Trail over the new TH 371 alignment and all associated drainage, pavement marking, utility and signing work. Jeff was also the lead technical writer for the development of the ITP, Book 1, Book 2, Book 3, and the Request for Qualifications.
04/12 – 04/17	**TH 169 Nine Mile Creek Bridge Replacement, MN, Technical Writer** for this hybrid design-build project that also incorporated design-bid-build plans for sections of TH 169. The project included areas of pavement repair, pavement resurfacing, noise wall construction, ADA improvements, lighting, ITS, pavement markings, signing, drainage improvements and the replacement of Bridge No. 27568 with a Causeway between Brenn Road and the 7th Street interchange. Jeff developed the ITP and Book 1 and wrote multiple sections of Book 2 while providing QA/QC reviews of the remaining Sections of Book 2. Jeff also assisted with the development of addenda for the RFQ and RFP documents.

Firm employed by	WSP USA Inc.				
Name	Andrew Woodhouse			**Years of relevant experience with this employer**	4
Title	Traffic Engineer			**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering		
Active registration number / state / expiration date			PE #0402067497 / VA / 12/31/2025; PE #62101 / MD / 12/12/2025; PE #051442 / GA / 12/31/2024		
Year registered	2023 (VA, MD); 2024 (GA)	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Technical Requirements		

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).**
	Andrew is a transportation engineer specializing in traffic design, including signal design, maintenance of traffic, ITS design, signing design, and marking design with experience in a variety of throughout the East coast. Since joining WSP, Andrew has experience primarily working in the Baltimore, Washington D.C., and Atlanta Metropolitan areas, primarily performing work for Maryland State Highway Administration (MDSHA) and The Georgia Department of Transportation. He is skilled in the following software: Microstation, AutoTURN, GuideSign, SignCADD, Synchro, AutoCADD and has a basic working knowledge in VISSIM.
07/20 - ongoing	**GDOT, I-20 I-285 West Interchange General Engineering Consultant Atlanta, GA, Lead Designer** responsible for the concept level design for overhead signing, traffic signals, ramp meters, and Intelligent Transportation Systems (ITS) for the reconstruction of the I-20/ I-285 West interchange. The project role also included the writing of project specific technical provisions and technical specifications for signing, marking, ITS, and pedestrian facilities for the procurement of the design build project.
09/21 – 09/23 09/23 - ongoing	**American Legion Bridge, I-495/I-270 Traffic Relief Program (Public-Private Partnership [P3]), Fairfax County, VA & Montgomery County, MD, Technical Lead.** Responsible for the oversight and tracking of the Developer submittal process. Role included the review of all documents, memos, calculations, and plans submitted by the developer in parallel with other SMEs. Upon receipt of the comments from the SMEs. Plans/Documents reviewed fell under the following disciplines: roadway, structural/bridge, drainage, stormwater management, utilities, ITS, signage, signals, lighting, landscape, tolling, operations and maintenance, financing, construction, schedule, public outreach, right of way, and quality control. From June of 2022 to March 2023 (date of P3 Developer termination), Andrew was chief author for the program technical requirements and provisions for inclusion in the broader P3 Agreement. As chief author, Andrew coordinated with discipline leads for technical input, reviewed the technical against the broader P3 agreements for conflicts and discrepancies and verified the technical provisions and P3 agreement were consistent with all defined terms. Andrew also oversaw the Work product transfer following developer termination, ensuring all requested work product documents were properly furnished in accordance with the contract terms. **Assistant to the Program Lead, MD State Highway Administration** (September 2023- Present). As assistant to the program lead, Andrew has assisted in the management of program delivery by preparing schedules, reviewing technical and performance requirements for design build procurement and review of various technical, financial, NEPA and legal documents related to the program.
10/21 - ongoing	**GDOT, I-85 Phase 3 Widening Design-Build, Jefferson to Commerce, GA, Engineer** leading the design for ITS, Electrical and Fiber optic communication design. Design includes the addition of new DMS, CCTV cameras, Weather Reporting and information Systems and Video detection cameras. The design also includes coordination with numerous stakeholders and the preparation of engineer's estimates.
04/23 – 04/24	**GDOT, I-285 Westside PCC Pavement Replacement Project Segment 1, Fulton and Cobb Counties, GA, Engineer** leading the design for signing and marking design and detour plans. Signing and marking design included the design of overhead and ground mounted highway signs for a 7.5-mile-long urban interstate corridor. Detour design included the design of signing for nine detours for weekend interstate ramp closures. Both designs also included coordination with numerous stakeholders for project specific marking and pavement marker/reflector standards and the preparation of engineer's estimates.

Firm employed by	WSP USA Inc.				
Name	Derek Piper, PE, AICP, DBIA			**Years of relevant experience with this employer**	27
Title	Senior VP, Program Management			**Years of relevant experience with other employer(s)**	11
Degree(s) / Years / Specialization			BS / 1985 / Civil Engineering		
Active registration number / state / expiration date			PE #049305 / NC / 12/31/2024; PE #039967E / 9/30/2025		
Year registered	1990	**Discipline**	Civil Engineering		
Contract role(s) / brief description of responsibilities			Technical Requirements & Post Negotiation Transition		

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).**
	With significant experience in managing and delivering the design of civil/transportation projects, Derek Piper has held positions with increasing responsibilities for WSP, including project manager for highway/bridge projects, manager of projects, area manager, and design manager for design-build projects. His technical specialties include program and design project management for road, bridge, and tunnel projects; road and intersection design; train station planning and design; utility coordination and design; environmental permitting; and, environmental documentation.
11/18 - ongoing	**I-285@I-20W Interchange Reconstruction and I-20W Widening, Atlanta, GA**, **General Engineering Consultant (GEC) Project Manager** working directly with the owner leading a multidisciplinary on this $490M project to develop technical data and specifications, including preparing project surveys/mapping, environmental documentation, stakeholder engagement, utility coordination, and concept design plans in preparation for a design-build (DB) solicitation. The project includes complete reconstruction of interchange ramps, addition of a collector-distributor lane on I-20W, widening of I-20 for 6.5 miles, ITS upgrades for the project limits, and significant utility coordination efforts for power transmission lines, gas transmission lines, and major communications facilities. The project also includes significant noise, ecology, historic, and environmental justice impacts, as well as widening the bridges carrying I-20 over the Chattahoochee River and CSX railroad right of way (ROW). WSP developed a robust Public Involvement & Community Participation Plan documenting a robust stakeholder engagement effort as conflict evaluation and research.
4/23 – ongoing	**Annapolis City Dock Resiliency Design-Build Project, Annapolis, MD, Project Manager.** Derek is leading a multi-disciplined design team responsible for resiliency improvements and creating a world-class park at City Dock. The project includes permanent and temporary flood barriers, a new Maritime Welcome Center building, three stormwater pump stations, drainage collection system, significant water, sewer, and electrical system improvements, landscaping and hardscaping, utility pergolas, and public water feature, a public stage, and public recreational amenities. The project includes significant geotechnical challenges due to long-term settlement issues, modifications to existing seawalls, decorative lighting, architecturally significant utility pergolas (to screen electrical panels), reconnection of electrical and water facilities for boat slips in the city dock marina, infrastructure design for the conversion of overhead utilities to underground systems, underground transformers, and other street and sidewalk improvements,
5/23 – ongoing	**Amtrak B&P Tunnel Project, Deputy PM.** Derek is part of the project management team overseeing the design of a this $6B multi-disciplined mega-project that will replace the existing 150+ year old Baltimore & Potomac Tunnel with the new Frederick Douglass Tunnel. Derek is responsible for third party coordination with Maryland Transit Administration, Baltimore City, Baltimore Gas & Electric, and other utilities. This $6B project includes two new 10,000+ feet bored tunnels, pump stations, three ventilations buildings, a new West Baltimore MARC station for the MTA, significant utility relocations, five new bridges sanitary pump station, trackwork, NEPA, permitting, and CMAR delivery.
5/13 – ongoing	**Elizabeth River Tunnels Project, Cities of Norfolk and Portsmouth, VA, Deputy Project Manager and Design Manager**. Held several management positions, including his initial role as the Design Manager, then transitioning to Design Manager during the construction phase. Derek's specific responsibilities included design management of preparation of permit applications, construction documents and associated technical reports for civil, roadways, right-of-way, utilities, stormwater, drainage, E&S,

	landscape architecture, maintenance of traffic, traffic signals, and signage and pavement markings. In addition, he was responsible for oversight and management of design and professional services subconsultants engaged to perform design tasks, scheduling and staffing of design work, monitoring technical aspects of portions of work, interface with contractor's staff and Virginia Department of Transportation and Elizabeth River Crossing's staff. WSP served as the lead designer for the Virginia Department of Transportation's Elizabeth River Tunnels Project, which included a new 4,200-foot concrete immersed tube road tunnel constructed adjacent to the existing Midtown Tunnel beneath the Elizabeth River in Virginia. The overall project program included the inspection and rehabilitation of the operational systems serving the two existing Downtown Tunnels and the existing Midtown Tunnel, including new ventilation, new roadway lighting, new supervisory control and data acquisition controls, new traffic surveillance and control, and expanded power distribution.
5/13 to ongoing	**Newport News Multimodal Station, Newport News, VA, Project Manager/PIC** during preliminary design development, National Environmental Policy Act approvals, and principal-In-charge during final design. Derek was also responsible for management of a multi-disciplined project design team including master planning and design services for civil/site, site access, trackwork, utility relocations, stormwater management, site utilities, stormwater culvert extensions, an 8,000-square-foot station building, and a 3,000-square-foot service facility building. WSP is providing preliminary design development, National Environmental Policy Act approvals, master planning, and design services for a multimodal station to accommodate light rail Amtrak, local bus, intercity bus, pedestrian, bicycle, and automobile traffic. The transportation center replaces the existing Amtrak station on Warwick Boulevard. The project includes site access, track work, utility relocations, stormwater management water quality and quantity design under Technical Criteria 2B of the Virginia Stormwater Management Program and sizing of best management practices required to comply with the state stormwater program, site utilities, stormwater culvert extensions, a station building, and a fleet service facility building.
2010 - 2011	**Dominion Boulevard Preliminary and Final Design, Chesapeake, VA, QA/QC Manager** responsible for the quality assurance/quality control of roadway design plans for three new grade separated interchanges, including significant stormwater management and drainage improvements, E&S, utility relocations for this seven-mile conversion of a two-lane principal arterial to a four-lane divided controlled access facility. WSP provided preliminary and final design, and construction documents for widening and improvements to U.S. Route 17 Dominion Boulevard. The project included widening the existing two-lane rural roadway into a four-lane divided limited access freeway as well as three interchanges and the replacement of an existing bascule bridge with a mile-long, high-level fixed bridge over the Southern Branch of the Elizabeth River. The project also includes the final design and plan development of three post-tensioned concrete spliced girder superstructure units, as part of a 3.5-mile roadway improvement project from Cedar Road to Oak Grove Connector. The project alignment contains five total bridges; four grade separations and one high-level water crossing.

Firm Employed by	WSP USA Inc.			
Name	Carlos Osorio Campo		**Years of relevant experience with this employer**	7
Title	Senior VP, Project Management		**Years of relevant experience with other employer(s)**	11
Degree(s) / Years / Specialization		MS / 2010 / Civil Engineering		
Active registration number / state / expiration date		PE.0044313 / LA / 9/30/2024		
Year registered	2020	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities		Tolling Technologies/Operations		

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).**
	Carlos Campo is a Senior Vice President and National Toll Practice Lead with WSP. Carlos is a seasoned professional with extensive experience in all phases of tolling and ITS programs. Carlos' responsibilities throughout his career in the public and private sectors have included overseeing feasibility studies and technology assessments, preparing cost estimates, formulating technical specifications, managing systems integration, and improving the performance of facilities and systems. In addition to his advisory and delivery experience in several large-scale programs, Carlos was the operations manager for State Road and Tollway Authority, pioneering the implementation of new technologies and managing a team of data analysts to implement a robust performance monitoring and improvement program. Aside from his project work, Carlos is a thought leader who has advanced technical and policy research though his longstanding appointment on the TRB Managed Lanes Committee and several committees of IBTTA.
03/21 -08/23	**LADOTD, I-10 Calcasieu New Bridge Technical Advisor, LA, Technical Advisor.** Carlos developed the technical provisions for the toll system and ITS integration of this P3 project, including the requirements of shape-based classification systems, communications network needs, the implementation of an interoperability program and the provision of enhanced payment options.
05/17 – 06/24	**Bay Area Express Lane Network Program Management Services, Oakland, CA, Toll Systems Lead.** Carlos is responsible for providing technical advice for the delivery and expansion of the infrastructure and systems to support multiple corridor projects. His scope includes final design coordination, procurement strategy and negotiations, cost estimation, system integrator oversight, operations planning and support.
8/21 – 06/24	**Barrier Free Program, Houston, TX, Tolling Advisor.** Carlos participates in the planning and delivery of this regional toll road AET/ORT modernization in the greater Houston. His contributions include evaluating conceptual design alternatives, advising on procurement strategy and policy options, and evaluating operational improvements to increase tag penetration and more equitable cash payment options.
01/22 – 06/24	**I-5 Bridge Replacement Project, Interstate Bridge Replacement Program, Vancouver, WA, Tolling Advisor.** Carlos provides advisory services for the replacement of the Columbia River bridge crossing between the states of Oregon and Washington. Scope includes the planning and drafting of interagency agreements, the review of business rules, infrastructure, and system design documents, as well as the development of conceptual cost estimates.
07/17 – 12/22	**International Bridge Administration Toll System Assessment, Sault Ste. Marie, MI, Technical Specifications Lead.** Carlos supported the development of technical requirements to procure a roadside and back office toll system vendor for 3 binational bridge crossings in the US and Canada leveraging a business improvement process. Carlos also wrote a technology white paper and provided cost estimates. The project obtained the prestigious IBTTA Toll Excellence Award.
10/17 – 08/18	**Golden Gate Bridge Technical Support for Open Road Tolling (ORT) Operations, San Francisco, CA**: Supporting the District with the replacement of their legacy toll collection system on the Golden Gate Bridge, Carlos developed business rules and enforced contractual requirements compliance for the implementation of an open road/all electronic tolling solution on the Golden Gate Bridge. He also designed reports and interactive visual dashboards for the upgrading from all electronic toll booths to an open road tolling environment.

Firm Employed by	WSP USA Inc.				
Name	Matt Woodhouse			**Years of relevant experience with this employer**	10
Title	Assistant Vice President, Advisory Services			**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization			BA / 2014 / Government		
Active registration number / state / expiration date			n/a		
Year registered	n/a	**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			ITS/Federal Policy (Tolling Major Projects Civil Rights)		

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).**
	Matthew (Matt) Woodhouse is a senior lead consultant in WSP's systems finance and economics group. He is knowledgeable about transportation policy, planning, and finance. Matt has worked extensively in toll road operations from developing operations and maintenance plans, and implementing toll collection systems, to conducting gross to net revenue evaluations. He has overseen the procurement, development, integration, and testing of several toll collection systems. In addition, Matt has helped to advise clients on the operational and financial impacts of toll policies from the perspective of public toll operators and P3 concessionaires.
02/20 - ongoing	**Toll System Assessment and Implementation, International Bridge Administration, Sault Ste Marie, MI.** Matt served as project manager for an assessment and procurement of toll systems for three international bridge crossings between Michigan, New York and Ontario. The project includes a process improvement assessment task, development of technical specifications for new roadside and back-office systems and a financial analysis of the benefits of the different toll system options. Following selection of a toll system vendor he served as a technical advisor through the system design, testing and deployment. Additionally, he has provided additional technical support to the bridges, developing a procurement of 6c sticker tags for the Bridge Operators and advising the Blue Water Bridge – MDOT on the tolling technical requirements for the Design-Build project to replace their toll plaza.
06/20 - 12/22	**PennDOT Major Bridge P3 Initiative, Harrisburg, PA, Project Manager** for the program management effort to advance a program for developing bridges across Pennsylvania using P3 project delivery, initially developed as toll projects, the projects are now advancing using traditional funding sources. Developed tolling policies, led coordination efforts with PTC for the administration of toll collection services, developed sketch-level revenue analyses, conducted gross-to-net revenue modeling, facilitated workstream coordination and provided general tolling knowledge and expertise to the Department as it seeks to develop its first toll facilities.
01/23 - 06/24	**Oregon Toll Program, Oregon Department of Transportation (ODOT).** Matt served as a technical advisor for several aspects of the program. He has supported the traffic and revenue modeling and gross to net revenue forecasting efforts for the I-205 Abernethy Bridge Project, the Regional Mobility Pricing Program on I-5 and I-205 and a sketch level managed lanes analysis. Mr. Woodhouse presented to the Oregon Legislature's Joint Committee on Transportation Special Subcommittee on Transportation Planning in a "Deep Dive" on the many forms of toll diversion and their potential outcomes, citing multiple examples from across the country of effects of the introduction of tolls to previously free facilities.
02/19 - 03/21	**I-495/I-270 Traffic Relief Program (Public-Private Partnership (P3).** Matt supported the tolling team in developing business rules and technical requirements for the Roadside System for the Developers of the I-495 and I-270 Express Lanes. Assisted in developing a model for determining the sizing of a fund to facilitate the exchange of toll revenues, video toll surcharges and civil penalty revenues between the Developer, SHA and the MDTA.
06/17- 07/18	**Los Angeles County Metropolitan Authority 2015-2020 On-Call ExpressLanes Program Management, Los Angeles, CA:** WSP is leading a multi-firm team providing on-call program management services to the ExpressLane project developments in Los Angeles County. The project includes developing the Countywide ExpressLanes Strategic Plan; conducting extensive

	data collection and traffic studies; constructing toll facilities; converting HOV lanes to tolled express lanes on sections of I-105, I-605, I-405, I-10, and I-110; and reconstructing the direct connector at the I-110 and I-405 interchange. • **Metro Interstate 405 ExpressLanes Level II Traffic and Revenue Study, Los Angeles, CA:** Assisted in the development of a model to annualize and interpolate daily traffic and revenue figures for many managed lane scenarios for the I-405 Sepulveda Corridor. The scenarios varied based on lane configurations, lane access, pricing policy, occupancy levels for toll exemption, and operating objectives. WSP developed traffic and revenue forecasts for express lanes alternatives in the vicinity of Sepulveda Pass along Interstate 405 as part of Metro's evaluation of public-private partnership (P3) options to implement multimodal transportation solutions in this corridor. • **I-105 Level I Traffic and Revenue Study, Los Angeles County Metro, Los Angeles, CA**: Matt assisted in the development of a model to annualize and interpolate daily traffic and revenue figures for many managed lane scenarios for the I-105 Corridor. The scenarios varied based on lane configurations, lane access, pricing policy, occupancy levels for toll exemption and operating objectives.
06/16 - ongoing	**State Route 520 Bridge Replacement and High-Occupancy Vehicle Program, Seattle, WA:** Assisted in maintaining a model to forecast annual gross and net toll revenues for a replacement floating bridge facility across Lake Washington. The model incorporates annual operations and maintenance costs, traffic forecasts, and produces results over a 40-year forecast period. Considerations for leakage, enforcement costs, and toll equipment operations, maintenance, and procurement are included in the model. WSP, as part of the general engineering consultant team for the State Route 520 bridge replacement and high-occupancy vehicle program, provided program and project management, tolling and financial analysis, revenue forecasting, environmental documentation, preliminary engineering, design-build procurement, design and construction oversight, and quality management. The firm worked with the design-build contractor during preliminary engineering and advised the Washington State Department of Transportation on constructability issues related to the pontoons during the replacement of the State Route 520 floating bridge.
05/23 - ongoing	**General Toll Consultant, Washington State Department of Transportation (WSDOT).** Matt is serving as a technical advisor for the toll system implementation at the Tacoma Narrows Bridge as it transitions to a hybrid cash/ORT configuration. He has also supported the development of toll system technical requirements for the extension of the SR 167 Express Toll Lanes and the greenfield SR 509 toll road.

Firm Employed by	WSP USA Inc.		
Name	Mark Polston	**Years of relevant experience with this employer**	5
Title	Senior Manager, Alternative Delivery	**Years of relevant experience with other employer(s)**	16
Degree(s) / Years / Specialization	JD / 2002 / Degree of Law BA / 1995 / Political Science		
Active registration number / state / expiration date	Virginia State Bar; District of Columbia Bar (JD)		
Year registered	2005	**Discipline**	Law
Contract role(s) / brief description of responsibilities	Solicitation Documents/RFIs/Evaluation		

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).**
	Mark Polston is a senior manager with the Alternative Delivery Advisory Services group. He advises clients in the procurement, financing, and implementation of complex infrastructure projects, with an emphasis on alternative delivery methods, including public-private partnerships (P3s). With a solutions-focused approach, Mark assists project owners in determining goals, identifying constraints, and allocating risk in a manner that puts them in the best position to deliver their projects. He helps clients through the entirety of the procurement and implementation processes, including in the drafting of evaluation criteria, selecting proposers, and negotiating agreements to achieve successful commercial and financial closings and then to administer the agreements. Working collaboratively with clients, Mark develops user-friendly strategies for change management and alternative delivery project implementation over the life of a project. Mark is the former deputy director of the United States Department of Transportation's (USDOT) Build America Bureau Credit Programs. In his role with USDOT, Mark was involved with every P3 project that achieved financial close in the U.S. since 2010 using federal transportation credit support. His leadership and counsel on many of these projects strongly contributed to their achieving financial close and proceeding into implementation.
05/20 - ongoing	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Solicitation/Evaluation.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process. WSP is currently serving as Technical Advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. Furthermore, WSP is supporting the questions and answers (Q&A) process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of Alternative Technical Concepts and other avenues for potential contractor innovation helping to refine the RFP documents.
05/19 –12/20	**Straits of Mackinac Line 5 Replacement and Tunnel Facility, MI.** Advising on the Construction Manager/General Contractor (CM/GC) procurement of a contractor and designer for the construction of a tunnel under the Straits of Mackinac and the Line 5 replacement pipeline, which carries petroleum products from Wisconsin to Ontario, via Michigan. Assisting the client on the drafting and negotiation of CM/GC contracts with the design engineer and constructor, as well as evaluation criteria, statements of work and other Request for Proposal (RFP) documents. Project is ongoing. Owner: Enbridge Energy, Limited Partnership.
10/18 - ongoing	**I-10 Improvement Project, AZ**: Advising Arizona Department of Transportation (ADOT) on alternative delivery and preparation and development of procurement contract documents (Request for Information – RFI, Request for Qualifications – RFQ and RFP). Project is ongoing.

Firm Employed by	WSP USA Inc.			
Name	Ivan Garcia		**Years of relevant experience with this employer**	6
Title	Senior Manager, Alternative Delivery		**Years of relevant experience with other employer(s)**	14
Degree(s) / Years / Specialization	MPRE / 2017 / Master of Professional Studies MSC / 2005 / Civil Engineering BSC / 202 / Civil Engineering			
Active registration number / state / expiration date	n/a			
Year registered	n/a	**Discipline**	n/a	
Contract role(s) / brief description of responsibilities	Financial/Vfm; Risk Management			

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Ivan is a consultant in the Investor Advisory and Analytics team at WSP. Ivan's experience includes: i) feasibility studies, due diligence and risk allocation for alternative delivery public private partnerships(P3) across several sectors, including the definition of user rates/fees; ii) preparation of both short and long term budget forecasting, including administrative costs, financial expenses, CAPEX, maintenance programs, as well as controlling the execution of those budgets; iii) project finance, financial modeling, and strategic advice for risk analysis and assessment and financing of capital intensive infrastructure projects; (iv) credit risk analysis and monitoring of key financial and operating metrics, as well as the analysis on projects' completion, legal and demand risks. Before joining WSP, Ivan worked at OHL Concessions (OHL), one of the largest global infrastructure developers, with main exposure in Latin American countries, covering Chile, Colombia, and Peru. There, he was co-responsible for the Asset Management and Business Development activities, overseeing the submission of unsolicited proposals as well as the procurement process from RFI to bid.
04/20 - ongoing	**Amtrak B&P Tunnel Project, Financial Consultant.** WSP is leading the joint venture to create a design for the Frederick Douglass Tunnel to upgrade a 4-mile section of the Northeast Corridor. The design includes new high-capacity tunnels for electrified passenger trains, new roadway and railroad bridges, new rail systems and tracks, and a new ADA-accessible West Baltimore Maryland Area Regional Commuter station. One new tunnel, a single-track, four-tube tunnel, will be bored below the city, eliminating the existing tunnel's sharp curves that have become a bottleneck on a high-traffic segment of the Northeast Corridor. Removing these sharp curves will allow Amtrak and Maryland Area Regional commuter trains to travel at higher speeds.
10/18 - ongoing	**I-10 Improvement Project, AZ**: Advising Arizona Department of Transportation (ADOT) on alternative delivery and preparation and development of procurement contract documents (Request for Information – RFI, Request for Qualifications – RFQ and RFP). Project is ongoing.
01/19 - ongoing	**MDTA, Harry W. Nice/Thomas Middleton Bridge Replacement, MD/VA, Advisor.** WSP is advising the MdTA with respect to the replacement of this aging structure crossing of the Potomac River southeast of Washington, DC. Consultant assisting with the procurement process documentation and qualifications/proposal evaluations.
05/23 - ongoing	**Gateway Development Commission, Hudson Tunnel Project Procurement Support, Financial Advisor** on institutional and financing issues related to the creation of a multi-party development corporation, including representatives of the states of New York and New Jersey, the U.S. Department of Transportation (USDOT) and Amtrak. She is also helping to advance potential RRIF financings for various project elements. including the Portal Bridge replacement project and new Hudson River tunnels. The Gateway Program is an integrated group of rail infrastructure projects between Newark Penn Station and Penn Station New York (PSNY) along the NEC - the most heavily used passenger rail line in the U.S., both in terms of ridership and service frequency, with 200,000 passengers and 450 trains per weekday. Major Program projects include the construction of the new Hudson River Tunnel (including the rehabilitation of the existing North River Tunnel and the construction of the Western Yards Concrete Casing), replacement of the Portal and Sawtooth bridges in New Jersey, the Hudson Yards tunnel right of way preservation project, and expansion of Penn Station New York, Newark Penn Station, and Secaucus Junction**.**

Firm Employed by	WSP USA Inc.			
Name	Camilo Monge		**Years of relevant experience with this employer**	5
Title	Lead Consultant, Alternative Delivery		**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization		MBA / 2019 / Business BS / 2010 / Economics		
Active registration number / state / expiration date		n/a		
Year registered	n/a	**Discipline**	n/a	
Contract role(s) / brief description of responsibilities		Financial/Vfm		

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).**
	Camilo Monge is a consultant with WSP. He has experience in economic and financial assessments of infrastructure projects and proposals, as well as performing due diligence on public-private partnership (P3) contracts. He also has performed financial models, value for money analysis, organizational structuring proposals, economic studies, and planning engagements.
12/20 - 11/21	**City of South San Francisco P3 Parking Structure and Commercial Office Space Evaluation, City of South San Francisco, CA, Deputy Project Manager** in charge of coordinating task development across teams. Responsible for organizing and implementing the P3 Capacity Building and Strategy workshop with the City's appointed staff, and in charge of planning and management of all deliverable presentations and follow up. Drafted and collaborated in drafting the procurement and funding strategies for the project. Developed Value for Money assessment for three proposed P3 configurations.
03/21 - 10/21	**CalTrans Truck Parking P3 Partnerships Screening Tool, CA:** Part of team in charge of identifying existing challenges and solutions to implement public-private partnerships (formal or informal) for funding truck parking, as well as identifying potential partnerships for locations identified in Statewide Truck Parking Study. This task includes a Truck Parking Partnerships Screening Tool to address truck parking challenges in partnership with either the private sector or other public sector entities.
07/21 - 10/21	**Expedited Project Delivery (EPD) P3 Assessment for Metro East San Fernando Valley Transit Corridor Project, LA Metro, CA:** Part of team in charge of supporting Metro's application to an EPD grant. Responsibilities include outlining EPD grant application roles and responsibilities, a grant request requirements checklist, proposed application schedule, and P3 strategy memo. Developed P3 elements and grant request narrative based on a solar photovoltaic array and battery energy storage system at the Project's maintenance and storage facility. Project was subsequently awarded a Letter of Intent (LOI) under the EPD Pilot Program.
09/19-ongoing	**BART Silicon Valley Phase II (BSV II) Extension to San Jose, Santa Clara Valley Transportation Authority (VTA) Program Management Team, San Jose, CA:** Supported VTA's efforts to advance BSVII to a Full Funding Grant Agreement (FFGA). • Authored the PMT's Management Capacity and Capability Plan, assisted in the review of 30+ required management documents and procedures. • Part of team that prepared Value for Money analysis for BSVII to participate in the Federal Transit Administration's (FTA) Expedited Project Delivery (EPD) Pilot Program. • Updated PMP and Sub Plans to comply with FTA New Starts oversight procedures. • Part of team tasked to provide strategic orientation to VTA and prepare a roadmap to implement a Community Facilities District (CFD) at the Downtown BART Station. • Co-authored a report to evaluate the revenue generating potential of either a CFD and/or an Enhanced Infrastructure Financing District (EIFD) District at the future Berryessa Station and Milpitas Station being constructed as part of BART Silicon Valley Phase I Extension.

Firm Employed by	WSP USA Inc.				
Name	Geordie Bundock-Livingston			**Years of relevant experience with this employer**	1
Title	Senior Lead Consultant			**Years of relevant experience with other employer(s)**	8
Degree(s) / Years / Specialization			JD / 2008 / Law BA / 2008 / Agriculture Economics		
Active registration number / state / expiration date			n/a		
Year registered	n/a	**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			Third Party Agreements		

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).**
	Geordie Bundock-Livingston is a senior lead consultant with more than nine years of experience advising transportation agencies on the procurement and delivery of complex transportation projects utilizing public-private partnerships and other alternative delivery strategies. He has prepared requests for qualification and requests for proposal; concession and development agreements; ancillary documents including technical requirements, contractor interface agreements, and utility and third-party agreements; and design-build, operations and maintenance, tolling, and project agreements.
06/23 - ongoing	**Austin Airport Expansion and Development Program PMO Professional Services, Assistant Vice President.** WSP is providing program, project, and construction management support services to the Austin-Bergstrom International Airport and the City of Austin Department of Aviation for their airport facilities including airside, landside, terminal, utility, and related infrastructure projects. This multiyear airport expansion, development, and improvement program includes the expansion and modernization of the current Barbara Jordan Terminal to support a new 20-gate concourse and other expansion and modernization programs.
01/23 - ongoing	**Virginia Passenger Rail Authority, Long Bridge Partners, VA, Assistant Vice President** Geordie is currently advising the Virginia Passenger Rail Authority on the procurement of its Long Bridge Project, which consists of progressive design-build and design-build packages. Geordie assisted with the drafting of RFQ and RFP documentation and is currently assisting with the development of the primary agreements and supporting the VPRA team with various procurement processes.
01/23 - ongoing	**Virginia Passenger Rail Authority, Franconia-Springfield Bypass, VA, Assistant Vice President.** Geordie is currently advising the Virginia Passenger Rail Authority on the procurement of its Franconia-Springfield Bypass Project which is being procured under a construction manager/general contractor structure. Geordie is engaged in drafting RFP documentation, coordinating responses to proposer questions, managing proposal evaluation processes and assisting with the preparation and amendment of the construction manager/general contractor agreement terms through the RFP process.
01/24 - ongoing	**Port of New Orleans freight tollway project, New Orleans, LA (scoping study):** Geordie is currently advising the Port of New Orleans on potential procurement strategies and delivery methods for the Port's proposed freight tollway project to be delivered in conjunction with the Port's expansion.
01/24 - ongoing	**Puget Sound Gateway Program Stage 2B, Washington State Department of Transportation, Seattle, WA** Geordie is currently advising WSDOT on the procurement and delivery of Stage 2B of the project which is to be delivered utilizing progressive-design build. Geordie is drafting the delivery scope for Phase 1 of the project and advising on procurement strategy and the RFQ, RFP and contract documents.
05/19 - 04/21	**Maryland Interstate 495 and Interstate 270 Managed Lanes Public-Private Partnership Program, MD, Attorney.** Geordie advised the Maryland Department of Transportation on a wide range of procurement and concession documents and liaised extensively with commercial, technical, and legal advisors on the procurement of America's largest public-private partnership road project to date. Geordie was involved with drafting commercial terms for the concession agreement and pre-development agreement, preparing ancillary documents, and developing and aligning risk allocation positions across the project document suite and procurement documents.

Firm Employed by	WSP USA Inc.				
Name	Eunice Lovi			**Years of relevant experience with this employer**	2
Title				**Years of relevant experience with other employer(s)**	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		**Discipline**			
Contract role(s) / brief description of responsibilities	Federal Grant Programs				

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).**
	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, USA Inc., Eunice worked as the City'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. She worked with many City departments to coordinate grant related activities such as grant budget revision, grant close-outs and processing grant payment requests. Eunice has also managed and administered FTA grant programs while working as Transit Manager with Broward County Transit (FL) and Stanislaus Regional Transit (CA), and as the Director of Planning with SunLine Transit Agency (CA).
05/20 - ongoing	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Grants Lead.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process. WSP is currently serving as Technical Advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria.
2023 - ongoing	**Federal Transit Administration (FTA) FY2023-FY2025 Grant Compliance, City of Asheville, Transportation Department, 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.
02/23-02/24	**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.
2022	**FY2022 RAISE Application, Golden Gate Bridge, Highways, and Transportation District (GGBHTD) 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.

Firm Employed by	WSP USA Inc.				
Name	Aida Berry			**Years of relevant experience with this employer**	1
Title				**Years of relevant experience with other employer(s)**	25
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		**Discipline**			
Contract role(s) / brief description of responsibilities	Federal Policy (Tolling Major Projects Civil Rights)				

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).**
	Aida Berry is an experienced civil rights professional who brings 25 years of experience, and expertise in developing, managing, and overseeing every aspect of regulatory compliant civil rights programs on the transportation agency side. Prior to joining WSP, Aida worked for the Federal Transit Administration (FTA) Office of Civil Rights reviewing and issuing concurrence of civil rights programs and DBE Goal Methodologies. She has extensive experience in preparing and responding to state and federal audits/triennial reviews, ensuring and meeting regulatory compliance requirements. Aida's experience with civil rights programs regulatory compliance include not only management and oversight but also development and implementation of DBE Triennial Goal Methodologies; DBE Program Plans; DBE Program trainings, DBE Shortfall Analysis, DBE Procurement and Contract Provisions/Requirements, EEO Program Plan/Affirmative Action Plans, EEO Trainings, EEO Policies and Procedures, Title VI Program updates, Limited English Proficiency (LEP) Four-Factor Analysis, Language Assistance Plan, Public Participation and Outreach Plan, ADA investigative procedures, ADA Reasonable Accommodations and ADA Reasonable Modification Trainings, innovative Workforce Development Program, comprehensive outreach strategies and initiatives, as well as robust DBE/SBE contract compliance monitoring policies, procedures and trainings, and reporting processes and mechanisms.
5/19 – 02/24	**Los Angeles Metro - Civil Rights, Racial Equity & Inclusion, Los Angeles, CA, Senior Manager, Civil Rights Programs.** Oversaw agencywide Title VI compliance working with agency stakeholders and ensured successful program implementation. Managed consultants for Mystery Rider Programs for LEP and Fare Compliance Monitoring. Provided expert oversight for Service and Fare Equity (SAFE) Analyses for Metro staff. Provided tailored training to frontline departments, Customer Relations, Community Relations, Communications, Planning and Operations to ensure understanding and compliance of Title VI requirements. Developed and implemented Metro's Title VI Program update every three years.
12/18 – 05/19	**Los Angeles Metro, Diversity and Economic Opportunity Department, Los Angeles, CA, Manager of Certification.** Managed Metro's Small Business Certification Unit; Oversaw staff in the administration of small business certification functions and processes in support of Metro's Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) certification functions. Participated in and represented Metro in the California Unified Certification Program (CUCP). Analyzed certification applications, made recommendations on certifications based on adherence to the U.S. Department of Transportation's (DOT) regulations (CFR 49 Part 26) and Metro's own SBE certification program. Administered contracts and departmental programs to ensure that Metro was in compliance with applicable laws and policies, and program goals and objectives.
03/16 – 12/18	**Long Beach Transit (LBT), Long Beach, CA.** Served as agency's Compliance Officer for Americans with Disabilities Act of 1990 (ADA), DBE, Title VI of the Civil Rights Act of 1964, Equal Employment Opportunity (EEO) programs to ensure compliance with federal/state regulations, policies, and guidelines. Provided guidance and consulted with the CEO and Executive Leadership Team on the interpretation and implementation of Federal Civil Rights Programs. Conducted investigations on ADA, EEO and Title VI complaints. Monitored, investigated, and resolved EEO complaints, ADA discrimination or any alleged Title VI discrimination that a person, or persons were denied the benefits of, excluded from participation in, or subject to discrimination on the grounds of race, color, or national origin under any of LBT's programs or activities. Managed DBE program and outreach to maximize participation in LBT procurement solicitations.

Firm Employed by	WSP USA Inc.				
Name	Ken Beehler			**Years of relevant experience with this employer**	7.5
Title	Senior VP, Advisory Services			**Years of relevant experience with other employer(s)**	5
Degree(s) / Years / Specialization			JD / 2010 / Law		
Active registration number / state / expiration date			n/a		
Year registered	n/a	**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			Post Negotiation Transition		

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).**
	Kenneth (Ken) Beehler brings more than 12 years of experience assisting transportation agencies with evaluating alternative delivery models, developing and administering alternative delivery contracts, preparing procurement documents, researching and drafting alternative delivery programmatic guidance, and alternative delivery risk management. Ken has experience preparing agreements for various infrastructure projects across several states using alternative delivery models, including construction manager and general contractor, progressive design-build, design-build, construction manager at risk, design-bid-build, and Public-Private Partnership. He also prepared requests for proposals and agreements for various projects.
02/23 - ongoing	**Long Bridge Replacement Project, Arlington, Alexandria, Franconia, Freder, VA:** provided an evaluation of alternative delivery method options, including design-build, construction and general management, and progressive design-build. Ken helped the Virginia Passenger Rail Authority consider different contract package options to deliver the project and the delivery method for each package. He drafted a request for information to the industry to gain feedback from contractors on the various alternative delivery methods under consideration. Ken is now assisting Virginia Passenger Rail Authority with procuring two contract packages for the Long Bridge Replacement, to be delivered using the progressive design-build and design-build methods. As the Virginia Passenger Rail Authority is a new agency without template documents, Ken is helping craft the necessary procurement documents and contracts by implementing industry best practices and experience in other states. WSP is providing design-build services for this project.
2022 - ongoing	**Illinois Tollway, 2022-2026 Consulting Engineering GEC, IL.** WSP is providing bond resolution and trust indenture, planning, construction management audit and support, and design management services for the Illinois Tollway Authority. The scope includes asset management, bond support, planning, environmental audits, design standards development, and review of construction documents.
08/22 – 07/23	**WSDOT and ODOT I-5 IBR Program, Vancouver, WA.** WSP is an engineering consultant for the I-5 IBR Program, a bi-state effort to replace the I-5 bridges across the Columbia River with modern structures and interchanges that will add high-capacity transit and improve safety, seismic resiliency, and freight mobility. WSP is responsible for project management, coordination across teams, and preparation of the net revenue projections. The team is leading the project start-up, an equitable and transparent community and stakeholder engagement program, the NEPA re-evaluation, and the delivery of an innovative design that reflects the region's values and drives economic growth.
08/16 – 03/23	**City of Long Beach Gerald Desmond Bridge Replacement, Long Beach, CA.** WSP is providing program management services for replacing the Gerald Desmond Bridge, connecting Long Beach to Terminal Island. The replacement is California's first cable-stayed vehicular bridge and the second-tallest cable-stayed bridge in the U.S. The project scope includes construction management, utility coordination, specialty materials testing, submittals management, surveying, community outreach, project controls, document control, cost estimating and scheduling, funding and grants support, and traffic engineering. The project also involves a multimillion-dollar design-build contract for the bridge's replacement. The 8,800-foot-long bridge includes a 2,000-foot main cable-stayed span with a 200-foot vertical clearance, 515-foot-tall towers, drilled shafts, cast-in-place post-tensioned decks, and approach superstructures constructed using moveable scaffolding systems and traditional falsework.

07/18 -12/23	**ADOT I-10 Broadway Curve GEC Services.** WSP is the GEC providing program and project management services for the design and realignment of the I-10 Broadway Curve Interchange Project, an area stretching from the I-10 and I-17 Interchange to SR 202. The scope involves widening and reconstructing the Broadway curve interchange, which is described by the ADOT as rush-hour-challenged. WSP is developing schematic plans and environmental approvals for the project. The firm is also preparing standardized reports and dashboard solutions using Power BI software. The solutions centralize the reporting area for multiple areas of project status internally and to subcontractors. Effective data mapping and information sourcing by skilled WSP team members contribute to the solutions' success. The driver toward success and grassroots approach to growing the scope of work enables the continual reexamination between project staff, management, stakeholders, project controls and technology key staff, and the client. This includes reviewing success factors and performance measurement indicators or targets that can be used to measure the project's effectiveness and measuring or tracking those values so that each value stream will be held to action or measured for success along the life of the engagement and throughout the project span.
03/23 –10/23	**US 97 and US 20 Bend North Corridor Project, Bend, OR:** assisted the Oregon Department of Transportation procurement team with developing and finalizing the design-build agreement and request for proposal. Ken reviewed the design-build agreement and request for proposal for consistency and recommended potential adjustments based on industry best practices. WSP assisted the City of Bend and the Oregon Department of Transportation in implementing highway safety improvements on U.S. Route 97 between Bowery Lane and Empire Avenue and U.S. Route 20 between Cooley Road and Empire Avenue. Phase 1 of the project included intersection improvements, structural components including under and overpasses, realignments of the roadway, and other corridor improvements. For Phase 2, WSP provided alternative contracting support by developing procurement documents, including developing the best value design-build procurement schedule in preparation for the design-build project delivery for future work.
2015 - 2020	**Los Angeles County Metropolitan Authority 2015-2020 On-Call ExpressLanes Program Management, Los Angeles, CA**: WSP is leading a multi-firm team providing on-call program management services to the ExpressLane project developments in Los Angeles County. The project includes developing the Countywide ExpressLanes Strategic Plan; conducting extensive data collection and traffic studies; constructing toll facilities; converting HOV lanes to tolled express lanes on sections of I-105, I-605, I-405, I-10, and I-110; and reconstructing the direct connector at the I-110 and I-405 interchange. • **Interstate-105 Express Lanes Construction Procurement Documents, Los Angeles, CA**: worked with the Los Angeles County Metropolitan Transportation Authority to advise on the procurement documents for a project to convert high-occupancy vehicle lanes to express lanes and widen the Interstate 105 freeway through one of the densest areas in Los Angeles. Ken worked with the agency to draft the request for quotation to select a contractor, which included developing scoring and evaluation criteria and preparing the contracts for both the preconstruction and construction phases of the project. The contractor was procured using the construction manager and general contractor alternative delivery method. WSP is providing design-build services for this project.

Firm Employed by	WSP USA Inc.		
Name	Bryce Little, AICP	**Years of relevant experience with this employer**	2
Title	Senior Director, Advisory Services	**Years of relevant experience with other employer(s)**	
Degree(s) / Years / Specialization	JD / 2005 / Law Professional Designation / 1998 / Construction Management MA / 1989 / Urban Planning		
Active registration number / state / expiration date	240613 / CA / N/A AICP: 082760 / National / N/A		
Year registered	2005 (Law); 1997, AICP	**Discipline**	n/a
Contract role(s) / brief description of responsibilities	Post Negotiation Transition		

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).**
	Bryce Little is a senior director in WSP's Advisory Services Division. He has spent the past twelve years in senior management roles on major projects and working on a variety of pursuits and strategic initiatives. As a project manager, licensed attorney, and certified planner, Bryce brings more than three decades of experience providing compliance, oversight, analysis, risk management, and strategy to the implementation of major transportation programs. Bryce develops and implements organizational structures comprised of experts, who carry out contracting and financing components, while he advises clients regarding project-related planning, program management, legal, and financial issues throughout program implementation. Bryce is currently the co-service area manager for the contract oversight and compliance service area within the Alternative Delivery Advisory Services Business Line. Bryce is also currently the program office director for the WSP-led program manager/construction manager, overseeing the $1.5 billion Gerald Desmond Bridge Replacement Project at the Port of Long Beach.
08/12 – 03/23	**Gerald Desmond Bridge Design-Build (DB) Project, Long Beach, CA, Program Manager.** WSP is providing program management services for replacing the Gerald Desmond Bridge, connecting Long Beach to Terminal Island. The replacement is California's first cable-stayed vehicular bridge and the second-tallest cable-stayed bridge in the U.S. The project scope includes construction management, utility coordination, specialty materials testing, submittals management, surveying, community outreach, project controls, document control, cost estimating and scheduling, funding and grants support, and traffic engineering. The project also involves a multimillion-dollar design-build contract for the bridge's replacement. The 8,800-foot-long bridge includes a 2,000-foot main cable-stayed span with a 200-foot vertical clearance, 515-foot-tall towers, drilled shafts, cast-in-place post-tensioned decks, and approach superstructures constructed using moveable scaffolding systems and traditional falsework. Bryce manages delivery of $1.5 billion cable-stayed bridge project, including $780 million DB contract. Responsibilities include supporting PM/CM program director, managing project team, contractor claims and disputes, and ensuring project's compliance with state and federal requirements.
2015 - 2020	**Los Angeles County Metropolitan Authority 2015-2020 On-Call ExpressLanes Program Management, Los Angeles, CA**: WSP is leading a multi-firm team providing on-call program management services to the ExpressLane project developments in Los Angeles County. The project includes developing the Countywide ExpressLanes Strategic Plan; conducting extensive data collection and traffic studies; constructing toll facilities; converting HOV lanes to tolled express lanes on sections of I-105, I-605, I-405, I-10, and I-110; and reconstructing the direct connector at the I-110 and I-405 interchange. **Interstate-105 Express Lanes Construction Procurement Documents, Los Angeles, CA**: worked with the Los Angeles County Metropolitan Transportation Authority to advise on the procurement documents for a project to convert high-occupancy vehicle lanes to express lanes and widen the Interstate 105 freeway through one of the densest areas in Los Angeles. Ken worked with the agency to draft the request for quotation to select a contractor, which included developing scoring and evaluation criteria and preparing the contracts for both the preconstruction and construction phases of the project. The contractor was procured using the construction manager and general contractor alternative delivery method. WSP is providing design-build services for this project.

Firm Employed by	WSP USA Inc.				
Name	Genevieve Kanellias			**Years of relevant experience with this employer**	13
Title	VP, Director of Communications/Public Involvement			**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization			BA / 2010 / Communication & Public Relations		
Active registration number / state / expiration date			n/a		
Year registered	n/a	**Discipline**	n/a		
Contract role(s) / brief description of responsibilities			Community Outreach		

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).**
	Genevieve has successfully led public engagement and communications efforts for projects in various stages ranging from feasibility to planning to design. She develops and implements public involvement programs by integrating traditional, low-tech strategies with high-tech tools and innovative engagement techniques. She works closely with the project team and public to execute engagement efforts, gain public input, and ensure a clear understanding of project goals. Her experience also includes event planning, public awareness campaigns, and research. Genevieve recently completed the International Association for Public Participation program Planning for Effective Public Participation.
04/23 – Present	**Areas of Persistent Poverty Study, Capital Area Transit System, Baton Rouge, LA:** This study is evaluating barriers to transit in areas that are a majority minority communities who are underserved by transit. Through public engagement the team will identify solutions to improve transit service. Genevieve manages public engagement efforts including strategy, messaging, and implementation.
04/22 - Present	**George Washington Memorial North Parkway Rehabilitation FHA EFLHD, Fairfax and Arlington Counties, VA:** Genevieve is the Public Information Manager for the $161 million project to rehabilitate approximately 7.6 highway miles of the GWMP between Spout Run Parkway to I-495. This is the first major rehabilitation since the parkway was originally completed in 1962. Communications is critical as the GWMP serves 26 million drivers annually; this parkway is not only a vital connection in the regional transportation network but also a national park. As the communications task lead for the design build team, Genevieve coordinates with National Park Service and Eastern Federal Lands Highway Division to advise on communications strategy, messaging, and graphics to effectively communicate project benefits and impacts during design field activities and construction with a variety of audiences. Communications tools include a project website, e-blasts, social media, VMS messaging, and traditional media. Genevieve is responsible for developing, managing, and implementing a comprehensive and strategic communications plan to educate, inform and engage the traveling public, park tourists, and the surrounding communities and stakeholders of construction activities and inclement weather events. Genevieve coordinates with the technical team to ensure the Traffic Management Plan's communications complements the overall Strategic Communications Plan. Genevieve facilitates the Communications Task Force meetings between the DB team, NPS Communications, and NPS and FHWA project leadership to proactively discuss communications needs, strategies, and to reach decisions. The team coordinates with the adjacent project, 495 Next, to ensure that public communications are coordinated efforts, as needed. Genevieve oversees the development of proactive communications materials to inform and educate the public about construction-related activities, project benefits including preserving cultural and historic resources. Genevieve plans and facilitates public informational meetings with 508 accessible materials.
01/19 – 02/20	**Regional Planning Commission, Comprehensive Operational Analysis, New Orleans, LA:** This yearlong study will evaluate and propose a network redesign of public transportation in Orleans, Jefferson, and St. Bernard parishes. Genevieve is overseeing the public involvement efforts. Public involvement includes three phases to seek input about the resident's needs and to discuss service changes and improvements.
08/18 – 05/20	**NCDOT, Statewide Transportation Plan, Statewide, NC.** This is an update to NCDOT's long-range multimodal transportation plan to help guide future transportation investments and policies in North Carolina. Public engagement is a critical piece in this comprehensive two-year study as the project team identifies statewide transportation resources and needs to ensure people and freight move safely and efficiently while enhancing communities and the economy. Genevieve is leading communications and public engagement efforts, which include a robust suite of tools and techniques to educate and engagement the many populations living in North Carolina.

Firm employed by	WSP USA Inc.		
Name	Kristof van Winden, PE, ENV SP	**Years of relevant experience with this employer**	2.5
Title	Sr. Consultant, Transaction & Delivery Strategy	**Years of relevant experience with other employer(s)**	7.5
Degree(s) / Years / Specialization	MS / 2018 / Civil Engineering BS / 2016 / Civil Engineering		
Active registration number / state / expiration date	PE: NY; ENV SP: US		
Year registered	2020	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Technical Principal/Project Manager		

Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
	Kristof van Winden is a senior consultant responsible for providing alternative delivery support to WSP's Advisory Services group. He is a strategic civil engineer with experience in the planning, design, procurement, bid, and construction of complex alternative delivery capital projects for public agencies. Kristof has served as a transportation infrastructure project manager and professional engineer with quality experience on Port Authority of New York and New Jersey/New York State Department of Transportation/New Jersey Department of Transportation alternative delivery method infrastructure projects. He is a creative and innovative professional with a Bachelor of Science in Civil Engineering from Virginia Tech and a Master of Science in Civil Engineering from the New Jersey Institute of Technology.
05/23- Present	**Gateway Development Commission, Hudson Tunnel Project Procurement Support, NY & NJ, Risk Management** As part of the Gateway Trans-Hudson Partnership (GTHP) consortium, WSP has been providing procurement and project delivery support to the Gateway Development Commission (GDC) for various packages of the Hudson Tunnel Project. Led by the Gateway Development Commission, a public authority established by the States of New York and New Jersey, the Hudson Tunnel Project is a component of the overall Gateway Program and involves the construction of two parallel rail tunnels, with a single track contained within each tunnel, from New Jersey to Manhattan. Starting in 2023, WSP supported GDC's development of strategies for phasing multiple, overlapping procurements over an expedited period. This program includes a combination of Design-Bid-Build (DBB) and Design-Build (DB) delivery methods, depending on the specific characteristics of each package. During the period 2023 – 2026, the completion of seven separate procurements for large-scale components of the overall Hudson Tunnel Project program is anticipated.
2022 - ongoing	**Illinois Tollway, 2022-2026 Consulting Engineering GEC, IL, Risk Management.** WSP is providing bond resolution and trust indenture, planning, construction management audit and support, and design management services for the Illinois Tollway Authority. The scope includes asset management, bond support, planning, environmental audits, design standards development, and review of construction documents.
03/22 – 02/24	**Alternative Delivery General Engineering Consultant Services, Kentucky Transportation Cabinet, KY, Project Manager.** WSP is supporting the Kentucky Transportation Cabinet in the procurement of advisory services and the expansion of its alternative delivery program. For the client's first alternative delivery programmatic owner's representative contract, the firm will assist the Kentucky Transportation Cabinet in expanding into new delivery methods such as construction manager and general contractor and progressive design-build and refining its design-build program with a comprehensive set of consulting services. This role will allow Kentucky Transportation Cabinet to scale up an alternative delivery program and bring many more projects to completion at greater value to the agency over the next few years.
10/23 – 02/24	**METRO Blue Line Extension LRT Operation and Maintenance Facility, Risk Management,** WSP provides design, bid, and building services to the Metropolitan Council in Minnesota. This project includes drainage design, watershed, and MPCA coordination, site layout and grading, utility coordination, cost estimating and special provisions. The Blue Line Extension will

	operate about 13 miles from downtown Minneapolis through the northwestern communities of Golden Valley, Robbinsdale, Crystal, and Brooklyn Park.
05/20 – 05/24	**LADOTD, Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge), Calcasieu Parish, LA, Risk Management.** This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk project replaces the 70-year-old Calcasieu River Bridge, increase the capacity of I-10 through the Lake Charles region, and relieve a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process. WSP is currently serving as Technical Advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. Furthermore, WSP is supporting the questions and answers (Q&A) process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of Alternative Technical Concepts and other avenues for potential contractor innovation helping to refine the RFP documents.
08/20 – 08/22	**Pathways Major Bridges P3 Initiative Program Management (MBP3), PennDOT, Risk Management.** WSP was the PM for the development and implementation of the Pathways Major Bridges P3 Initiative, which will deliver the rehab or reconstruction of nine (9) interstate bridges through Availability Payment Progressive P3 agreements. Initially developed as a program that would use toll revenues as funding, the program subsequently eliminated tolling and proceeded with traditional funding streams. WSP provided PM services, policy development, toll system coordination, P3 Procurement support and engineering coordination and design services. WSP has managed schedules for multiple work streams across multiple firms for multiple bridge projects to meet the delivery schedule. The firm supported the development of the Program through policy advisory to PennDOT. This policy support has ranged from high-level program structure to detailed toll and revenue policies. WSP also coordinated with the toll system service provider, the Pennsylvania Turnpike Commission to develop a Concept of Operations, Requirements Document and Interagency Agreement that governs and specifies the interaction between the parties. WSP led the procurement of a Development Entity to design, build, finance and maintain the bridges through a Progressive P3 Agreement. WSP managed the development of procurement documents (RFI, RFQ and RFP), industry outreach and executive briefings while coordinating with legal and commercial advisors to PennDOT.

Firm employed by	ARCADIS			Meets MPR No. 5
Name	Akhil Chauhan, PE, PTOE, PTP, PMP	Years of relevant experience with this employer	1 5	
Title	Principal Traffic Engineer	Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization		MS / 2003 / Transportation Engineering, Massachusetts Institute of Technology BS / 2001 / Civil Engineering, Indian Institute of Technology		
Active registration number / state / expiration date		PE.033703 / LA / Exp. 09/2024; PTOE #2544 / USA / Exp. 11/2025 PTP #246 / USA / Exp. 12/2024; PMP #1444676 / USA / Exp. 08/2024		
Year registered	2008	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		Traffic Engineering & Design Technical Advisor		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Chauhan is a Principal Traffic Engineer with over 20 years of applied research and industry experience in the fields of traffic engineering, traffic modeling and simulation, transportation planning, demand modeling/forecasting, intersection/corridor analysis, warrant analysis, signal design, safety studies, transportation management plans, and access management. Akhil has successfully led, managed, and mentored numerous projects and personnel related to transportation modeling, simulation, and planning for public agency clients located across the nation including several state Departments of Transportation. He is proficient in the use of many macro-, meso-, and microscopic traffic simulation software programs such as Highway Capacity Software, Vistro, Synchro, Sidra, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS. Has completed the LADOTD Traffic Engineering Process and Report Training.
12/16 – 02/20	Traffic Signal Engineering IDIQ, LADOTD, Statewide, LA. *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under this IDIQ. Services provided included a range of traffic engineering services including traffic data collection, traffic modeling and analysis, signal timing optimization, traffic signal inventory, traffic signal design plans, construction cost estimates, and quantities.
11/20 – Ongoing	I-10 CMAR – Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA. *Contract/Project Manager.* Responsible for contract manager and technical advisory of all traffic engineering tasks including development of permanent signing plans, signal design and timing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model using Dynameq to determine the impacts during construction and mitigations that will be necessary to minimize delay.
05/19 – 11/22	I-20/I-220 Interchange Improvements and BAFB Access Design-Build, LADOTD, Bossier Parish, LA. *Principal Engineer.* Responsible for overseeing the development of addendum to Interchange Modification Report, Transportation Management Plan, temporary sign timing and design plans, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20/I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.

06/19 – 12/19	EBR Signal Upgrades and Design, LADOTD, East Baton Rouge Parish, Louisiana. *Contract Manager*. Responsible for technical oversight and supervision of the development of design and timing plans for upgraded signal detection at 39 signalized intersections from video detection systems to wireless vehicle detection systems (magnetometers).
08/13 – 01/20	Traffic Engineering IDIQ Contracts, LADOTD, Statewide, LA. *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under two traffic engineering IDIQs. Services provided included a range of traffic engineering services including traffic data collection, intersection and corridor studies, traffic modeling, signal warrant analysis and timing optimization, alternative development and conceptual design, signal design, traffic signal inventory, and safety analysis / improvements. Arcadis developed the first mesoscopic models using Dynameq for the state of Louisiana.
01/18 – Ongoing	I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA. *Contract Manager.* Responsible for supervising development of mesoscopic traffic model using Dynameq to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, safety analysis, operational analysis, assistance with public outreach, development of a Level 4 TMP, and development of work zone mitigation strategies.
04/13 – 12/13	LA 1 at Rondinaud Lane Signal Upgrades, City of Donaldsonville, Ascension Parish, LA. *Project Manager*. Produced traffic signal design and timing plans and traffic signal inventory (TSI) forms according to LADOTD standards. The signal modification was necessary as a new approach was added to the intersection of LA 1 at Rondinaud Lane. The updated signal required new timing parameters, intersection sketches, wiring diagrams, quantity estimates, and logging signal modifications.
08/14 – 03/21	Safety Studies IDIQ Contracts, LADOTD, Statewide, LA. *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under two safety studies IDIQs. Services provided included a range of engineering services including safety and traffic studies, historical crash analysis, collision diagram development, identification of safety deficiencies, traffic data collection, development of safety countermeasures, Highway Safety Manual predictive methods, Stage 0 feasibility studies and documentation, traffic modeling and analysis, intersection and corridor studies, and access management improvements.
01/14 – Ongoing	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Principal Engineer.* Responsible for contract management and deliverables for the project which included traffic and safety analysis, signal timing and warrant analysis, alternative screening and analysis, preliminary roadway and bridge design, line and grade, Interchange Modification Report, and Environmental Assessment. Purpose of the project is to improving operations and safety along Range Avenue.
08/14 – 05/15	Highland-Burbank Connector, City of Baton Rouge - Green Light Program, East Baton Rouge Parish, LA. *Project Manager.* Responsible for design study to evaluate north-south connector and capacity and access management improvements. Alternatives considered restricted intersection types in addition to conventional treatments. Conducted signal warrant analysis and developed signal timings and design plans, including cycle lengths, green times, and clearance intervals.
01/18 – Ongoing	I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA. *Contract Manager.* Responsible for supervising development of mesoscopic traffic model using Dynameq to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, safety analysis, operational analysis, assistance with public outreach, development of a Level 4 TMP, and development of work zone mitigation strategies.

Firm employed by	ARCADIS			Meets MPR No. 5
Name	Ari Deitch, PE, PTOE, PTP, RSP		Years of relevant experience with this employer	9
Title	Senior Traffic Engineer		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BS / 2012 / Biological Engineering, Louisiana State University	
Active registration number / state / expiration date			PE.0041842 / LA / Exp. 03/2024; PTOE #4346 / USA / Exp. 11/2026 PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2024	
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.			Traffic Engineering & Design Supervisor	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Deitch is a Senior Traffic Engineer and Project Manager specializing in traffic engineering studies and design, traffic safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on a wide range of transportation projects for LADOTD, and other DOTs and municipalities across the country, pertaining to intersection and corridor studies, signal warrant analysis, access management, pedestrian and bicycle improvements, complete streets, transportation management plans, Stage 0 feasibility studies, NEPA studies, signal design, and signing and marking design. He has experience with traffic analysis software's and methods and is proficient in Highway Capacity Software, Synchro, Vistro, Vissim, Sidra and MicroStation software. Has completed the LADOTD Traffic Engineering Process and Report Training.
12/16 – 02/20	Traffic Signal Engineering IDIQ, LADOTD, Statewide, LA. *Senior Traffic Engineer.* Provided a range of traffic engineering services including traffic data collection, traffic modeling and analysis, signal timing optimization, traffic signal inventory, traffic signal design plans, construction cost estimates, and quantities. Served as engineer of record for traffic signal plans developed under this IDIQ.
11/20 – Ongoing	I-10 CMAR – Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer.* Providing QAQC for traffic engineering tasks including development of permanent signing plans, signal design and timing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model using Dynameq to determine the impacts during construction and mitigations that will be necessary to minimize delay.
05/19 – 11/22	I-20/I-220 Interchange Improvements and BAFB Access Design-Build, LADOTD, Bossier Parish, LA. *Senior Traffic Engineer.* Responsible for the development of addendum to /nterchange Modification Report, Transportation Management Plan, temporary sign timing and design plans, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20/I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.
04/19 – 12/19	EBR Signal Upgrades and Design Plans, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer.* Responsible for supervisory tasks and oversight of this project involving field signal inventory and the creation of updated signal design plans and quantities for 39 intersections in East Baton Rouge Parish.

04/19 – 06/19	US 90 Traffic Signal Timing Upgrades, LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Project tasks involved traffic data collection and analysis, traffic signal inventory, peak period determination and observations, warrant analysis, travel time runs, traffic signal timing analysis using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards
01/16 – 12/18	US 90 Business Signing Upgrades, LADOTD, Orleans Parish, LA. *Traffic Engineer.* Developed permanent signing plans and Transportation Management Plans for segments of US 90 Business and I-10 in the Central Business District of New Orleans. The project was divided into 4 separate plan packages. Separate Transportation Management Plans were developed and submitted for each segment.
02/15 – 09/18	US 71 Corridor - Phase II and III Traffic and Safety Corridor Study, LADOTD, Rapides Parish, LA. *Project Manager.* Responsible for overseeing and managing project tasks including traffic data collection, signal warrant analysis, traffic analysis, crash analysis, alternative and countermeasure development, predictive safety analysis, and conceptual drawings.
08/19 – 02/20	US 61 Access Management and Corridor Study, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer.* Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Provided technical oversight for traffic analysis using Highway Capacity Software 7, signal warrant analysis, and predictive safety analysis. Assisted with the development of construction cost estimates and benefit-cost analysis.
02/15 – 01/18	LA 3105 (Green Acres to LA 72) Corridor Study, LADOTD, Bossier Parish, LA. *Traffic Engineer.* Responsible for development/evaluation of existing and future year conditions using a calibrated microsimulation model (Vissim). Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and signal timing enhancements.
04/16 – 09/18	New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA. *Project Manager.* Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes and selecting safety countermeasures for 20 high-risk locations. Developed design drawings for proposed short-term and long-term improvement phases and conducted benefit-cost analysis to inform project prioritization. Conducted signal warrant analysis and preliminary signal design and timing plans. Conducted safety analysis using Highway Safety Manual predictive methods. Organized and lead project stakeholder meetings to review alternatives, obtain feedback, and develop context sensitive solutions. Completed Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists for all 20 intersections.
07/14 – Ongoing	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic Engineer.* Responsible for traffic analysis of proposed alternatives using Vissim software. Played a key role in the development of preliminary roadway design drawings, incorporation LADOTD's Complete Streets Policy, and implementing enhanced pedestrian safety measures such as high visibility crosswalks. Work involves completing an Environmental Assessment and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Conducted signal warrant analysis and developed optimized timing plans for proposed improvements.

Firm employed by	ARCADIS				
Name	Jan Hughes (Grenfell)			Years of relevant experience with this employer	1
Title	Senior NEPA Planner			Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			BA / 1984 / Anthropology, 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.			Public/Stakeholder/Officials Coordination/Planner		

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Hughes brings more than 25 years of experience with the LADOTD Environmental Section overseeing the National Environmental Policy Act (NEPA) process for proposed transportation projects, as well as preparing NEPA, Section 106 of the National Historic Preservation Act, and Section 4(f) of the U.S. DOT Act documentation for FHWA and U.S. Coast Guard. She has taken NHI Course No. 142055, NEPA and Transportation Decision Making. In addition to the projects listed below, throughout her career Jan has provided oversight for numerous staff and consultant prepared NEPA documents for LADOTD and local entities. She has also coordinated with federal, state, and local agencies on other environmental issues. Throughout her career, Jan participated in public involvement activities, including public meetings and hearings and Section 106 consulting parties meetings, and has conducted numerous meetings and hearings. Jan was a project team member in the development of the 2015 Louisiana Historic Bridge Inventory and Section 106 Programmatic Agreement for Treatment of Louisiana Historic Bridges.
07/15 – 02/19*	I-49 South, I-10 to Lafayette Regional Airport, Route US 90/US 167, Supplemental Environmental Impact Statement (SEIS), LADOTD, Lafayette Parish, LA. *LADOTD NEPA Lead* for preparation of a SEIS that includes follow-up to commitments made in the 2003 Record of Decision (ROD) for the upgrade of this 5-mile portion of US 90/US 167 in Lafayette, LA to a six-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and the consultant NEPA work, which included *extensive public involvement activities such as public meeting, small group meetings, and Section 106 consulting parties meetings*. Also carried out the SEIS initiation process and re-initiation of the Section 106 process.
11/22 – Ongoing	US 11 Norfolk Southern Railroad, Route US 11, Environmental Assessment/FONSI, LADOTD, St. Tammany Parish, LA. Coordinating with LADOTD regarding the reevaluation of the FONSI.
04/23 – 04/23	Airline Highway North (Florida Blvd to I-110), Route US 61, City of Baton Rouge and East Baton Rouge Parish, East Baton Rouge Parish, LA. Assisted with preparation of the Stage 0 checklist.
10/22 – 05/23	LA 16 (Pete's Highway)/I-12 Interchange, Route LA 16, Environmental Assessment, LADOTD, Livingston Parish, LA. Coordinated with LADOTD to revise the draft Environmental Assessment to incorporate the rewritten construction phasing section of the document.
10/22 – 05/23	Rural Bridges Initiative II, Districts 02, 03, 07, 61, and 62, LADOTD. Reviewed and provided comments on draft Programmatic Categorical Exclusion documents for multiple state projects.

02/94 – 08/98	Airline Highway (US 61), Florida Boulevard to Just North of Jefferson Hwy., Environmental Assessment/FONSI, LADOTD, East Baton Rouge Parish, LA. *LADOTD NEPA Lead* for widening of this approximately 3.5-mile portion of Airline Highway from four lanes to six lanes. Responsible for handling the NEPA process, *conducted the public hearing*, and had primary responsibility for authoring the Environmental Assessment with Programmatic 4(f) Statement for an adjacent park for FHWA for which a FONSI was issued.
01/11 – 05/15	Bayou Teche Bridge at Oaklawn, Route LA 323, Categorical Exclusion Re-evaluation, LADOTD, St. Mary Parish, LA. *LADOTD NEPA Lead* for *r*eplacement of this historic, one lane, swing span bridge built in 1942 with a two-lane bridge on existing alignment. Responsible for handling the NEPA process and primary responsibility for authoring the NEPA document approved by FHWA. Also handled the Section 106 Consulting Parties process, preparation of the Section 106 Memorandum of Agreement and Programmatic Section 4(f) Statement for adverse impact to the bridge, and the historic bridge marketing and draft agreement for LADOTD's first ownership transfer of a historic bridge to another entity for alternate use.
03/02 – 03/05	Huey P. Long Bridge, Route US 90, Environmental Assessment, LADOTD, Jefferson Parish, LA. *LADOTD NEPA Lead* for widening of the highway portions of this historic highway/railroad bridge constructed in the 1930s from two 9-foot-wide lanes to three 11-foot-wide lanes. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for U.S. Coast Guard. *Conducted the public hearing*. Handled coordination with the New Orleans Public Belt Railroad and Louisiana State Historic Preservation Officer and preparation of the Section 106 Memorandum of Agreement for the adverse impact to the historic bridge.
01/15 – 02/19*	Inner Loop Extension (LA 3132), E. Flournoy Lucas Rd (LA 523) to Future I-69 Corridor, Environmental Assessment, LADOTD and City of Shreveport, Caddo Parish, LA. *LADOTD NEPA Lead* for extension of the Inner Loop on new alignment as a four- lane control of access facility from LA 523 to Future I-69 with interchanges and upgrades to adjacent roadways. Responsible for oversight of the NEPA process and consultant preparation of the Environmental Assessment for FHWA.
04/01 – 12/06	I-49 South, Wax Lake Outlet to Berwick, Route US 90, Environmental Impact Statement/ROD, LADOTD, St. Mary Parish, LA. *LADOTD NEPA Lead* for upgrade of this 9.3-mile portion of US 90 to a four-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for FHWA which was approved as a ROD.
04/01 – 10/05	I-49 South, Lafayette Regional Airport to LA 88, Route US 90, Environmental Impact Statement/ROD, LADOTD, Iberia/Lafayette/St. Martin Parishes, LA. *LADOTD NEPA Lead* for upgrade of this 10.8-mile portion of US 90 to a six-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for FHWA which was approved as a ROD.

*Until retirement from LADOTD in February 2019.

Firm employed by	ARCADIS			Meets MPR No. 4
Name	Jeffrey Weisner, ENV SP		Years of relevant experience with this employer	<1
Title	Design Build NEPA and Permitting Manager		Years of relevant experience with other employer(s)	29
Degree(s) / Years / Specialization			BS / 1994 / Biology, University of Tampa	
Active registration number / state / expiration date			Envision Sustainability Professional #46438	
Year registered	2021	Discipline	Envision Sustainability Professional	
Contract role(s) / brief description of responsibilities.			Public/Stakeholder/Officials Coordination/Planner	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Weisner has more than 29 years of experience as an Environmental and Transportation Planner and Project Manager. He has had lead roles as a Project Advisor, Program Manager, Project Manager, and Task Leader on a wide variety of multidisciplinary transportation infrastructure planning projects. Jeff has been involved with NEPA compliance, agency coordination, and environmental studies and documentation for various multimodal projects, and facilities. As a NEPA specialist and seasoned Project Manager, Jeff has managed numerous complex projects addressing public engagement and community studies; social, natural and cultural resource investigations; GIS, graphics and visualization; and air quality and noise technical evaluations. He is a subject matter expert in NEPA and Section 4(f) documentation, Environmental Justice, permitting, sustainablity, indirect and cumulative effects assessment, community impact assessment, public involvement, and agency and stakeholder coordination. *Trainings: VDOT NEPA Certification (2021), FHWA NHI Instructor (2020), FTA National Transit Institute (NTI) Public Involvement in Transportation Decision Making (2015), NCDOT and TDOT Context Sensitive Solutions Training (2013, 2014). FHWA NEPA and the Transportation Decision Making Process (2002)*
01/24 – Ongoing	I-10 Calcasieu Bridge Design Build Replacement, LADOTD, LA. *NEPA and Permitting Manager* providing oversight for the NEPA and permitting task. Arcadis, as a joint venture (JV) team member of a public private partnership (P3) is providing design service for a section of the project, and NEPA and permitting service across entire project.
01/24 – Ongoing	LA 22 Tchefuncta Bridge Stage 0 Feasibility Study, LADOTD, LA. *QA/QC Reviewer and Navigational Analysis* provided QA/QC and conducted and analysis of navigational data for a Stage 0 Feasibility Study for replacement of the moveable bridge on LA 22 over the Tchefuncte River. The study evaluated three alternatives: an existing alignment with a new movable bridge with higher navigational clearance; a new location alignment to the north with a high-level, fixed-span bridge; and a new location alignment to the south with a high-level, fixed-span bridge.
09/22 – 03/23	I-495 & I-270 P3 Program, Statewide, MD. *QA/QC Reviewer* provided QA/QC for the FHWA led Environmental Impact Statement (EIS) for the I-495 & I-270 Managed Lanes Study (Study). The I-495 & I-270 Managed Lanes Study (Study) is the first environmental study under the broader I-495 & I-270 Public-Private Partnership (P3) Program.
06/21 – 12/21	I-5997/5999, Interstate Maintenance of I-540 and I-440, Wake Co, NCDOT Division 5 Highway Maintenance. *Senior Environmental Planner* provided QA/QC for NEPA documentation. Planning and design services included pavement rehabilitation, shoulder widening, guardrail replacement, and pavement marking. The project also included the facility condition assessment, NEPA document, construction documents and special provisions.

05/21 – 08/23	Express Feasibility Study On-Call, NCDOT, NC. *Project Manager, Senior Planner.* Participated on high level conceptual designs and construction cost estimates under the NCDOT Feasibility Studies Contract. Projects include: • I-540: Northern Wake Expressway HOT Spot Analysis & Peak Period Shoulder Lane Evaluation. Senior Planner. Evaluated the use of shoulder lanes during peak travel periods to add capacity with minimal investment along heavy traffic hot spots on I-540 between I-40 and I-87/US 64 interchanges. • Belmont/Mount Holly Loop. Project Manager. New location 4 lane median divided section with bike lanes and curb and gutter. Intersection improvements include studies for innovative at grade and grade separated options at key locations.
09/07 – 03/14 11/14 – 06/18	Interstate 26 (I-26) Asheville Connector Environmental Impacts Statement (EIS), Asheville, NCDOT, NC. *Project Manager and Project Advisor*. Project Manager and Project Advisor for preparing the EIS and Section 4(f) documentation for the section of I-26 between US19/23/70 and I-40. The project was in the urbanized area of west Asheville and will complete a critical link in the I-26 corridor. In addition to preparing the DEIS, the project involved a broad public involvement effort for which the AECOM team prepared extensive visualization elements including a virtual video and graphic still images of project alternatives. The project also established a Corridor Advisory Committee and an Aesthetic Advisory Committee to help establish a community vision for the corridor. Other critical elements of the project include effects to historic resources, including a National Historic Landmark, requiring compliance with Section 106 and Section 4(f), community cohesion, environmental justice, and secondary and cumulative effects.
05/12 – 04/15 10/15 – 03/16	US 64 (Corridor K – Ocoee River Gorge Section) from West of the Ocoee River to State Route 68 near Ducktown, Polk County, Environmental Studies, Tennessee Department of Transportation (TNDOT), TN. Served as *Project Advisor and Project Manager* for NEPA Environmental Impact Statement to address proposed transportation improvements for a 22-mile-long section of US 64 through the Ocoee River gorge. This section of US 64 is a portion of the Appalachian Development Highway System (ADHS) Corridor K and traverses two US Forest Service wilderness areas. Responsibilities included management of a multidisciplinary team of planners, scientists, and engineers to conduct technical studies including an extensive Context Sensitive Solutions (CSS) program, intensive biological assessment, geologic investigation, and tunnel option studies. The project also included extensive stakeholder involvement and coordination with local officials, agencies, and environmental. and economic development team.
09/20 – 02/21	Wilmington Bypass Environmental Impact Statement, Brunswick County, NCDOT, NC. *Project Manager* responsible for various environmental studies including natural resources, air quality, noise impacts, water resources, indirect and cumulative effects assessment, and the preparation of the Final Environmental Impact Statement (FEIS) for a 14-mile controlled access roadway from US 17 to US 421 west of Wilmington. Project is following the NEPA/Section 404 Merger Process. Wildlife crossings threatened and endangered species, wetland impacts, land use forecasting, public involvement, Environmental Justice, indirect and cumulative impacts and water quality are critical elements of the project.

Firm employed by	ARCADIS			Meets MPR No. 10
Name	Jose L. Rodriguez, PE		Years of relevant experience with this employer	1
Title	Principal Roadway Engineer		Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization			BS / 1992 / Civil Engineering, University of New Orleans	
Active registration number / state / expiration date			PE.0030492 / LA / Exp. 03/31/2025	
Year registered	2003	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.			Project Manager	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Rodriguez has more than 25 years of experience with roles of progressive responsibility as a civil engineer performing roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, estimating, and project implementation for various clients in Louisiana, Texas, Georgia, and North Carolina. Jose has worked in close relationship with the Federal Highway Administration (FHWA), U.S. Army Corps of Engineers (USACE), Louisiana Department of Transportation (LADOTD), local parish governments, and regional planning commissions. He has extensive experience with Bentley Inroads, Autodesk Civil 3d, and Leap Bridge for Concrete Bridge Design. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010 and remains active in the organization.
07/09 – 07/15	Peters Road Expansion, Phases I-III, LADOTD, Plaquemines, LA. *Project Designer.* Responsible for the geometric design, plan preparation and wetland delineation of Peters Road Phases I, II and III. The projects consisted of a new roadway, elevated crossing over the Intracoastal Waterway, approach roadways in Jefferson and Plaquemines Parishes to tie Peters Road to Louisiana 23 near Barrier Road. During the environmental phase of the project, Jose actively contributed to the *preparation of plans and exhibits required for securing permits from the U.S. Coast Guard and the USACE.* These projects were executed in close collaboration with Plaquemines Parish, the LADOTD, and the USACE.
01/08 – 05/08	I-12 to Bush Corridor Study Phase III (EIS), LADOTD, St. Tammany Parish, LA. *Project Designer.* Responsible for evaluating environmental issues and developing design alternatives in accordance with the National Environmental Policy Act (NEPA) for transportation improvements. Jose, working in coordination with the environmental team, helped produce *plans and exhibits for the development of GIS data sets for the project.*
03/19 – 05/20	Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. *Assessment Roadway Lead:* Responsible for reviewing, preparing reports, and coordinating repairs at over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project adhered to the client's guidelines and strict schedules. Jose ensured that *all fieldwork and plan development were aligned with Puerto Rico's horizontal and vertical datums for integration with GIS systems.*
04/21- 04/22	Lee Drive (Highland Road to Perkins) Final Design Study Report, MOVEBR Baton Rouge, LA. *Project Designer*, Responsible for coordinating and developing concept drawings to evaluate the geometric feasibility of different roadway alternatives, proposed improvements, and anticipated right-of-way needs. Provided technical guidance to help identify green infrastructure opportunities along the project. Also assisted in the implementation of Complete Street regulations for the corridor. During the alternative's selection process, conducts cost estimates to evaluate and select the preferred alternative.
01/06 – 09/09	New Orleans Submerged Roadway Program Management, LADOTD / New Orleans Regional Planning Commission, New Orleans, LA. *Project Designer and Quality Control Reviewer for* the program management team for the LADOTD and the FHWA. Jose

	helped develop design guidelines and processes for the standardization of engineering work for the repair of roadways damaged by Hurricane Katrina in the City of New Orleans and other parishes. Responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with LADOTD and FHWA design standards.
02/10 – 06/11	I-10 from Veterans to Clearview, LADOTD, Metairie, LA. *Project Designer.* Responsible for roadway plan preparation for widening 1.2 miles of I-10 from three lanes to five lanes in each direction. The project also included bridge work to accommodate the interstate widening. Jose was also responsible for the alignment and design of concrete sound walls along the corridor. He helped implement an innovative two-sided concrete stamp process for the noise wall precast concrete panels.
05/12 – 12/15	Earhart Boulevard-Causeway Interchange, LADOTD, New Orleans, LA. *Project Designer.* Responsible for the geometric design and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.
06/04 – 01/11	Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA. *Project Designer.* This project consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the roadway plan preparation for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.
01/20 – 05/20	NC Highway 73 (NC 73) Widening, North Carolina DOT, Mecklenburg County, North Carolina. *Project Engineer.* Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges due to the high traffic volumes, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards.
04/18 – 09/20	Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, Texas. *Project Designer.* Assisted with establishing flood elevations for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted by the High-Speed rail.
10/17 – 03/18	Traffic Turn Lanes on Highway LA 3127, Yuhuang Chemical Inc., St. James, LA. *Quality Control (QC).* Review for the design of two turn lanes into the Yuhuang Chemical Methanol plant in St. James, Louisiana. During construction, Jose provided the owner with construction design services for the duration of the construction phase.
12/15 – 01/16	Magnolia Ridge Levee Project, City of New Orleans, St. Charles Parish, LA. *Quality Control (QC).* QC review and plan preparation for the Magnolia Ridge Levee project for St. Charles Parish.

Firm employed by	ARCADIS			Meets MPR No. 4
Name	Kimberly Arcement		Years of relevant experience with this employer	<2
Title	Senior Ecologist		Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization			BS / 1998 / Environmental and Sustainable Resources, University of Louisiana at Lafayette	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities.			Environmental Specialist	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Arcement is a Regulatory Specialist with 24 years of experience in achieving compliance with environmental laws such as the Clean Water Act, National Environmental Policy Act (NEPA), and National Historic Preservation Act (NHPA). She has processed various permits for coastal use, obtained permits from United States Army Corps of Engineers (USACE), and Louisiana Department of Environmental Quality (LDEQ), and conducted Phase I Environmental Site Assessments (ESAs) per American Society for Testing and Materials (ASTM) E1527. She was also the environmental advisor for the MOVEBR program while employed at CSRS (10/2018 to 09/2023). Additionally, she obtained the USACE Individual Permit and LDEQ Water Quality Certification for McHugh Road on behalf of the City of Baton Rouge-East Baton Rouge Parish.
10/18 – 09/23	MOVEBR Transportation Program, Baton Rouge, LA – *Environmental Program Advisor*: Led the City-Parish's in their $1.8B investment in transportation improvements; specifically, thirty-nine roadway capacity projects. Worked with the New Orleans District Corps of Engineers to remove roadside ditches from jurisdiction under the 2020 Navigable Waters Protection Rule. Advisory services ensured Federal Highway Administration (FHWA) and Louisiana Department of Transportation and Development (DOTD) compliance (e.g., Section 404, Section 401 Water Quality Certification, LDWF Scenic Rivers Permit, Significant Trees, etc.).
10/18 – 09/23	Heritage Crossings Mixed-Use Development, Gonzales, LA – *Environmental Practice Lead*: Obtained the Section 404 permit and Water Quality Certification for a new mixed-use development anchored by the new Gonzales People Achieving Continued Excellence (PACE) Center. The project included internal infrastructure to improve traffic flow and connectivity to medical facilities. The project required compensatory wetland mitigation for nine acres of bottomland hardwoods.
05/21 – 09/23	Port of Greater Baton Rouge, Port Allen, LA – *Environmental Practice Lead:* Responsible for preparing EA/Categorical Exclusion documents per Federal Railroad Administration (FRA) for funding through the U.S. DOT Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program; $62M in TIGER III funding was awarded for the 9-acres yard improvements and creation of a new 12-acre rail intermodal terminal at the Napoleon/Louisiana Avenue Wharves. Updated the EA documents in 2015 for $16.7M TIGER award for additional intermodal improvements.
11/12 – 07/15	Port of New Orleans, New Orleans, LA – *Environmental Specialist:* Responsible for preparing NEPA compliance documents (EA and Supplemental EA) according to U.S. Department of Housing and Urban Development (HUD) 24 CFR Part 58 to secure federal funding for Henry Clay Wharf and Riverfront Cold Storage Project. Prepared supportive documentation: Purpose & Need, Alternatives & Justification, Historic Preservation, 8-Step Floodplain & Wetlands Analysis, Traffic & Transportation, Environmental Justice, and Noise Assessment with pile-driving and construction noise impacts. Required formal consultation with State Historic Preservation Office (SHPO) identifying the Area of Potential Effect (APE). Prepared compliance documentation for Julia Street Cruise Terminal & Erato Street Terminal Improvements, Poland Avenue Bank Stabilization and Wharf Repairs, & Almonaster Bridge Replacement.

04/20 – 09/22	University Lakes Flood Risk Reduction/Aquatic Restoration, Baton Rouge, LA – *Natural Resource Manager:* Created a permitting matrix for nature-based solution project that beneficially used dredge material to create ecosystem habitat including riparian areas along 6-lake system (400+ acres). Permits included a Section 10/404 permit from the USACE, Water Quality Certification from the LDEQ, a Section 106 Concurrence from SHPO, and a Letter of No Objection from the USFWS and the LDWF. Obtained a Nationwide Permit 27 for the Aquatic Enhancement Pilot Study and prepared NEPA compliance documentation for release of CDBG-MIT funds from LA Office of Community Development.
10/20 – 02/20	University Club – 11th Filing Phase 2 & 3, Baton Rouge, LA – *Environmental Practice Lead:* Tasked with obtaining a Scenic Rivers Permit from LDWF for a residential subdivision located within a 100-feet of historic Bayou Manchac. Prepared permit application with an EA along with interagency coordination. The development was controversial given the 2016 Great Flood and site location along historic Bayou Manchac. Worked together with Louisiana Department of Wildlife and Fisheries (LDWF) our engineering team to reconfigure the stormwater retention pond and remove the hydrologic connection to the bayou.
10/08 – 06/18	The Domain Companies, South Market District, New Orleans, LA – *Environmental Specialist:* Responsible for performing multiple Phase I ESA and preparing NEPA compliance documents for a 5-city block redevelopment project in downtown New Orleans; specifically, to secure funding through the Louisiana Office of Community Development Disaster Recovery Unit (OCD-DRU) for Project-based Recovery Opportunity Program (PROP) through the Community Development Block Grant (CDBG) Disaster Recovery Fund for parishes impacted by Hurricanes Katrina and Rita. Prepared Phase I ESAs and various NEPA compliance documents to secure HUD funding for the Gold Seal Creamery in New Orleans and new construction of the High Grove Development in Baton Rouge.
66/12 – 02/16	Housing Authority of New Orleans (HANO), New Orleans, LA – *Environmental Specialist:* Responsible for maintaining compliance for $30.5M grant through HUD's Choice Neighborhoods Initiative program. Conducted Phase I ESAs and prepared multiple NEPA compliance documents (HUD 24 CFR Parts 50 and 58) for seven phases of the 23-acre $600M mixed-use redevelopment. Prepared Environmental Restrictions Checklist for Low-Income Housing Tax Credits. Achieved NHPA compliance through a Programmatic Agreement (PA) between the City of New Orleans, Housing Authority of New Orleans (HANO), SHPO, and Advisory Council on Historic Preservation (ACHP).
10/18 – 09/23	Louisiana Housing Corporation, Statewide, LA. – *Environmental Project Lead:* Provided environmental review services to complete Environmental Review Records (ERR) and Administrative Records in accordance with HUD's 24 CFR Part 58. Provided quality assurance and quality control services required for CDBG programs, as well as HOME Investment Partnership Programs for our Community Housing Development Organizations (CHDOs) across the state. Services included: Phase I ESAs per ASTM E1527-13, full EAs and Tier II EAs with Statutory Checklists, 8-Step Floodplain Analysis, Section 106 Consultations with the Tribal and SHPO, Section 404 permitting, Noise Assessments, lead-based paint assessments, asbestos surveys, and termite clearances.

Firm employed by	ARCADIS			
Name	Angelica Corradi		Years of relevant experience with this employer	20
Title	Design Build Project Director		Years of relevant experience with other employer(s)	<1
Degree(s)/Years/Specialization			BS / 2002 / Civil Engineering, Polytechnic University of Madrid	
Active registration number/state/expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s)/brief description of responsibilities.			Design Build Project Director	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Corradi is a multi-lingual senior leader with over 20 years of international corporate experience in managing large infrastructure P3 and design-build projects. She has expertise in people management, full life cycle project management, and stakeholder management, Ms. Corradi has successfully led teams of over 200 individuals across different locations and departments. Her strong skills in objectives identification, strategy planning, and cross-cultural communication have been instrumental in her achievements. Fluent in English, Spanish, Portuguese, and Catalan, she also possesses strong business acumen and proficiency in design software and tools such as AutoCAD, Presto, and Arquimedes.
09/21 – Ongoing	I-10 Calcasieu Bridge replacement P3- Design Build, Louisiana Department of Transportation and Development (LADOTD), Lake Charles, LA. *P3 Project Director.* Responsible for managing the success of Arcadis within the Joint Venture of the four design companies. This involves overseeing schedule and budget updates, identifying risks, and developing mitigation strategies. Also liaises with the Design Build Client and P3 stakeholders, participates in contract negotiations with legal teams, and guarantees compliance with project processes, including constructability and O&M impact. Reviews and processes proposed design changes to assess their impact on project scope and contractual obligations, while ensuring that project deliverables meet quality standards and client requirements.
12/16 – 02/18	Gordie Howe International Bridge, Windsor-Detroit Bridge Authority (WDBA), Windsor (ON, Canada)- Detroit (MI, US). *P3 Project Leader.* Responsible for developing a cost-effective and efficient construction plan for this complex design-build/P3 project with a budget exceeding $2 billion. Managed a team of 13 managers, overseeing a total of 200 individuals. Led regular design team meetings to guarantee effective communication, coordination, and prioritization of upcoming deadlines, while providing updates on schedule and budget. Collaborated with various design and specialty consultants to guarantee the timely delivery of project deliverables and compliance with contractual obligations. Guaranteed that project processes are adhered to, and reviews proposed design changes to assess their impact on project scope and contractual obligations, while ensuring that project deliverables meet quality standards and client requirements. Led the proposal coordination for the technical package in alignment with the design.
06/13 – 12/16	Various Rail, Bridge and Facilities, Various Client, Various City, Canada. *Project Coordinator.* Responsible for planning, execution and closing of some of the largest P3 Projects and Tenders including the New Bridge over the St. Lawrence, The Eglinton Crosstown LRT, East Rail Maintenance Rail Facility, Hamilton Bio soil Management Facility, White Rose Extension Project (Wellhead Platform & Concrete Gravity Structure) & the Hanlan Watermain /Feeder main Project, resulting in over $10 billion of Budget.

01/20 – 03/21	AM, CBRE, Europe (Spain, Andorra, Italy) from Headquarters in Portugal. *International Business Development Manager.* Responsible for managing full life cycle projects from development to completion, even amid the challenges posed by the pandemic. Responsibilities included identifying and executing new international opportunities as part of the development strategy, acquiring new projects in France, Andorra, and Italy. Delivered high-quality presentations to prospects, resulting in a doubling of the company's sales revenue within a span of 12 months. Implemented strategic initiatives to meet organizational budgeting goals and developed customer relationship programs to enhance client satisfaction and retention.
01/20 – 03/21	Various Retail Projects, Various Client, Malaga & Madrid, ES. *Design and Construction Senior Consultant.* Responsible for designing implementation strategies and developing mitigating strategies. Led three retail projects in various locations in Spain (Malaga and Madrid) from Texas, showcasing her ability to manage strong client relationships remotely. Guaranteed the viability of projects and monitors their financial evolution. Coordinated activities and maintains clear communication across multiple teams. Identified client needs and creating project mappings based on those needs.
08/06 – 01/13	Public Infrastructures, Various Client, Various City, Various ST. *Project Manager.* Responsible for managing projects and staff. Also prepared, designed, and reviewed architectural plans, ensuring compliance with client guidelines. Developed site instructions such as information bulletins, responded to requests for information (RFIs), and reviewed shop drawings. Issued field and site review reports, addressing deficiencies and documenting progress.
08/08 – 09/09	Historical Heritage Department, City Hall of Ibiza, Ibiza, ES. *Senior Consultant.* Worked as part of the "World Heritage City Department and Rehabilitation Area" responsible for the Integral Rehabilitation Area. Focused on ensuring compliance with the regulations set by the UNESCO Committee for Integrated Rehabilitation Areas.
08/06 – 08/08	Public Infrastructures, Balearic Island Government, Ibiza, Spain. *Construction Manager.* Responsible for leading several main projects, including the restoration of the Archeological Museum, the construction of an 8,800 square meter Alzheimer Hospital, the development of a Sports Facility Center, the construction of Schools, the restoration of the St. Tomas Church, and multiple heritage façade restorations.

Firm employed by	ARCADIS				
Name	Anup Shah, PE, SE		Years of relevant experience with this employer	5	
Title	Principal Structural Engineer		Years of relevant experience with other employer(s)	24	
Degree(s)/Years/Specialization			MS / 2003 / Civil Engineering, North Carolina State University BS / 1998 / Civil Engineering, North Carolina State University		
Active registration number/state/expiration date			PE.0046446/ LA / Exp. 09/30/2024 (Also licensed in NC, SC, TN, MS, AL, VA and GA)		
Year registered	2003	Discipline	Bridge/Structural/Geotechnical		
Contract role(s)/brief description of responsibilities.			Technical Advisor & Quality Assurance Quality Check (QAQC) - Bridge Design		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Shah has over 24 years of experience in structural and geotechnical design. He has successfully completed design-build projects worth over $1 billion in design and construction fees along the East Coast. His expertise includes designing various types of prestressed concrete girders, cored slab beams, culverts, pile foundations, drilled piers, retaining walls, noise barriers, pedestrian bridges, and other structural systems. Mr. Shah has provided valuable insight into projects for the Department of Transportation (DOT) in multiple states, including South Carolina, Virginia, Tennessee, Georgia, Ohio, Louisiana, Texas, and Florida. During his time at the North Carolina DOT (NCDOT), he served as the Structural Team Leader, reviewing structural designs for new products and leading the implementation of statewide standardization for structural connections in dynamic message signs. He was also a core team member for various statewide standardization initiatives by the Geotechnical Engineering and Structures Management Units. Mr. Shah's extensive experience has given him a deep understanding of the protocols and standards that DOTs across the country expect from their consultants.
10/20 – Ongoing	I-10 Construction Manager at Risk (CMAR), Louisiana Department of Transportation and Development (LADOTD), East Baton Rouge Parish, LA. *Senior Structural Engineer*. CMAR project includes widening and reconstructing the main line of I-10 from three to four lanes in each direction, bridge replacement and rehabilitation, interchange and ramp modifications, shoulder widenings, and construction of auxiliary lane(s) from Louisiana 415 to Essen Lane on I-10 and I-12. Participated in design team meetings and led a team of structural engineers. Responsibilities included designing and quality control of the substructure for the Terrace-Washington bridges, including temporary and permanent bridge widenings. Guaranteed that milestone deliverables adhered to established design policies, procedures, standards, and guidelines by following the Project Quality Control Plan.
09/19 – Ongoing	United States 90 Business Signing Upgrade, LADOTD, Jefferson & Orleans Parishes, LA. *Senior Structural Engineer/Structural Design Task Lead.* Led a team of structural engineers in the design and review of sign support structures along the existing United States 90. The project consisted of four segments and required the design of reinforced concrete or steel structures attached to the existing bridge at various locations. In addition to the design work, the team provided post-design services for the DOTD, including reviewing Request for Information and shop drawing submittals related to the structural elements to guarantee conformance to the design plans and project specifications. Led a team in the development of engineering alternatives and sketched proposed solutions that were approved by the contractor, DOTD, and Arcadis team.

10/22 – 11/22	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Replacements District 02 – Task Order 1, District 02, LADOTD, Louisiana. *Project Manager/QAQC Lead.* Led a team of planners and engineers in reviewing 25 bridge sites to determine eligibility for the IIJA Off-System Program. This involved coordinating with local stakeholders and conducting an initial screening to identify structures suitable for replacement based on cost, purpose, and need. Recommended structure types for each selected site in the program. Guaranteed that all deliverables adhered to established design policies, procedures, standards, and guidelines by conducting QAQC and reviewing all design products for compliance and good engineering practice, as directed by the Project Quality Control Plan.
10/19 – Ongoing	Bridge 87 over Richardson Creek (BR-0063) NCDOT Division 10, NCDOT, Anson County, NC. *Project Manager/QAQC Lead.* Led a team of planners and engineers in the preliminary design to final design of a 254-feet bridge replacement project from the latest NCDOT Structures Management Unit's limited services contract. Responsibilities include project management duties such as preparing the design schedule, developing the scope and fee for all in-house design tasks, and working with subconsultants to guarantee their scope and fee align with the client's guidelines and expectations. Maintained regular communication with the design team, senior leadership at the NCDOT Structures Management Unit, and Division 10 office.
12/21 – Ongoing	Bridge 23 on United States 117 over Great Swamp Creek (BR-0150) NCDOT Division 4, NCDOT, Wilson County, NC. *Project Manager/QAQC.* Led a team of planners and engineers in providing planning to final design services for an approximately 104-feet existing bridge. Responsible for overall QA on all deliverables, preparing the design schedule, and developing the scope and fee for all in-house design tasks. Collaborated with subconsultants to guarantee their scope and fee align with the client's guidelines and expectations. Regular communication is maintained with the design team, senior leadership at the NCDOT Structures Management Unit, and Division 4 office.
10/18 – 05/23	Central Avenue Bridge Replacement, Georgia DOT (GDOT)/City of Atlanta, Atlanta, GA. *Structure Design Task Lead/Senior Structural Engineer*. Led a team of structural engineers in the design and plan preparation for the replacement of a 609-feet long bridge and four retaining wall structures in a highly urbanized location for the Renew Atlanta Bond program. The 11-span bridge will utilize multiple superstructure types, including GDOT Modified Type I girders, American Association of State Highway and Transportation Officials Type II girders, flat slab, steel beams, and GDOT 54-inch Bulb Tee girders. The bridge spans across a confidential railroad client and the Metropolitan Atlanta Rapid Transit Authority rail line. The project required thorough reviews and coordination between all stakeholders. Prepared the preliminary engineering and developed the preliminary plans for the bridge and special design retaining walls.

Firm employed by	ARCADIS				
Name	Kester Hollier, PE, PTOE		Years of relevant experience with this employer	3	
Title	Senior Traffic Engineer		Years of relevant experience with other employer(s)	16	
Degree(s)/Years/Specialization			BS/2004/Civil Engineering, Louisiana Tech University		
Active registration number/state/expiration date			PE.034304/LA/Exp. 03/2025; PTOE #3928/USA/Exp. 11/2024		
Year registered	2009	Discipline	Civil Engineering		
Contract role(s)/brief description of responsibilities.			Traffic Engineering		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Hollier possesses a wide breadth of experience in traffic engineering studies and design including feasibility studies, intersection and corridor traffic studies, signal timing and design, roadway design, complete street improvement projects, transportation management plans, traffic modeling and analysis, transportation safety, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state DOTs and helps provide expertise in achieving successful solutions for a variety of projects. Mr. Hollier meets MPR #8 and has completed LADOTD Traffic Engineering Process and Report Training.
11/20 – Ongoing	I-10 CMAR – Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA. *Project Manager.* Responsible for traffic engineering tasks including development of permanent signing plans, traffic signal plans, interchange modification reports, and transportation management plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive historical crash and safety analysis is being performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.
01/10 – 04/11, 07/13 – 01/14	Stumberg Lane Extension, City of Baton Rouge Green Light Plan, East Baton Rouge Parish, LA. *Traffic Engineer.* Responsible for the design of new traffic signals at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane in Baton Rouge, LA. Also, responsible for the design and layout of the fiber optic interconnect along the proposed extension.
05/09 – 07/13	LA 23 Widening (Lapalco Blvd. – Engineers Rd.), LADOTD, Jefferson and Plaquemines Parishes, LA. *Traffic/Civil Engineer.* Responsible for the road design and geometrics for the widening of LA 23 in Jefferson and Plaquemines Parishes between Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed traffic analysis for the traffic signal timing and required turn bay lengths at intersections. Developed traffic signing plans, pavement marking layouts and temporary traffic control plans.
05/14 – 08/20	Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA. *Senior Traffic Engineer.* Responsible for the design of traffic control and construction sequencing, pavement marking layout, quantity analysis, cost estimates, and quality control for a new interchange at LA 3139 (Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferson Parish, LA. Provided review for the interchange traffic sign and traffic signal timings and design. Identified all necessary design waivers and design
	exceptions required for LADOTD approval. Provided geometric layout design, typical section design and review, and joint layout design for several interchange ramps and underpasses.

10/18 – 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. *Senior Traffic Engineer.* Responsible for the development of three future alternatives along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed the data collection process and peak period observations to determine existing traffic patterns as well as the safety analysis along the corridor. Developed three alternatives that used a combination of traffic signal retiming, J-turns, and roundabouts to provide better access management along Northshore Boulevard as well as improve traffic flow in the corridor for current and proposed future conditions with consideration given to proposed future developments using trip generation and land use analysis.
09/12 – 02/16	Traffic Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA. *Lead Traffic Engineer.* Responsible for the feasibility study and traffic analysis along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and LA 406 (Woodland Highway) for multiple 6-lane bridge alternatives that will be proposed to replace the existing Belle Chasse Tunnel and lift bridge over the Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of the roadway portion and costs for the Line and Grade Study along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/17 – 07/20	LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA. *Project Manager/Senior Traffic Engineer.* Responsible for the traffic study and impacts for the proposed complete streets improvements along the LA 466 corridor between LA 23 and Richard St. in Gretna, Louisiana. Tasks included data collection along the corridor and at designated intersections, safety and crash analysis along the corridor, trip generation/land use and performing existing traffic analysis and future traffic analysis for proposed final alternative. The traffic study was prepared to follow the Louisiana Department of Transportation and Development's Traffic Engineering Process and Report Guidelines. The project also included a standalone pedestrian study along the corridor at designated intersection and the design of traffic signals and accessible pedestrian signals at signalized intersections.
12/17 – 11/19	Causeway Boulevard Widening Traffic Study, Jefferson Parish, LA. *Project Manager/Senior Traffic Engineer.* Responsible for the traffic and safety study for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasks included data collection, traffic volume redistribution, left-turn placement and turn bay storage length, and existing traffic analysis and future traffic analysis of a preferred alternative.
06/13– 04/14	US 190 Stage 0 Feasibility Study, LADOTD, St. Tammany, LA. *Traffic Engineer.* Responsible for roundabout geometric design and pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for motorized and non-motorized roadway users.
10/10 – 07/15	Barriere Road Traffic Study, US Department of Defense, Plaquemines Parish, LA. *Civil/Traffic Engineer*. Responsible for the geometric layout and design of the realignment alternatives of Barriere Rd. between LA 23 to the US Naval Air Station. Developed and reviewed traffic analysis for arrival and departure patterns for the South US Naval Air Station entrance gates.

Firm employed by	ARCADIS			Meets MPR No. 11
Name	Victor Sanchez Nivar, PE, MSCE		Years of relevant experience with this employer	1
Title	Principal Bridge Engineer		Years of relevant experience with other employer(s)	20
Degree(s)/Years/Specialization			MS/2017/Civil Engineering-Structures, Ohio University BS/1991/Civil Engineering, Univesidad Autonoma de Santo Domingo	
Active registration number/state/expiration date			PE.0033976/LA/09/30/2024	
Year registered	2008	Discipline	Civil Engineering	
Contract role(s)/brief description of responsibilities.			Bridge/Structural Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Sanchez is the Lead Bridge Structural Engineer at the Arcadis office in Baton Rouge. He possesses a high level of skill in the design and detailing of structures, utilizing industry standards such as the American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor Design and the Louisiana Department of Transportation (LADOT) Bridge Design Manual. Additionally, he is proficient in software applications such as OpenBridge for bridge modeling and planning. Mr. Sanchez applies his extensive structural knowledge to perform precise hand calculations for bridge design and is adept at managing projects and collaborating with various groups within the organization, including clients, engineers from other disciplines, and project managers. With exceptional leadership skills and a comprehensive understanding of LADOT and LADOTD policies, standards, and manuals, he excels in building high-performing teams and achieving optimal results.
06/14 – 07/15	I-10 Over Julia Street Girder Rehabilitation Project, LADOTD, New Orleans, LA. *Engineer of Record.* This project was initiated to address a partial failure of the connecting plates that attach the girders to the straddle bents on one of the exit ramps to I-10 in New Orleans. The scope of work involved the replacement of one existing steel cap beam in straddle bent number 25-watts, as well as the replacement of all connecting plate elements on the adjacent steel cap 26-watts. Both substructures are situated over the same exit ramp on I-10 in New Orleans. The analysis and rehabilitation design focused on a section of the ramp that included the damaged straddle bent and connection plates. This section is a three-span continuous structure (74 feet, 132 feet, and 132 feet) with steel plate girders as the superstructure members, which frame into a straddle bent (bent number 25) and a steel cap beam (bent number 26) as the intermediate substructure elements. These steel caps are supported by concrete columns. Coordinated the preparation of contract documents, including plans, calculations, and cost estimates, while also providing Quality Check/Quality Assurance (QA/QC) for work prepared by other team members. Additionally, provided construction support by reviewing and approving shop drawings and calculations submitted by the contractor during the construction phase of the project.
05/16 – 05/17	Union Pacific (UP) Railroad Overpass Near Tioga, LADOTD, Rapides Parish, LA. *Lead Engineer/Engineer of Record*. The total bridge length is 950 feet and is composed of a main span, which utilizes steel plate girders as superstructure elements, spanning over three continuous spans measuring 210 feet, 275 feet, and 210 feet respectively. The bridge approaches to the main spans consist of two AASHTO type III prestressed concrete continuous spans measuring 85 feet on the north side, and one 85-foot AASHTO type III prestressed concrete span on the south side. The bridge substructure comprises of concrete pier caps supported on columns, which in turn are supported on drilled shafts and spread footings on drilled shafts. Responsible for the

	preparation of contract documents, including cost estimation, specifications, final plans, structural calculations, and coordination for project delivery in accordance with LADOTD policies.
04/15 – 03/16	UP Railroad Bridge at Sicard, LADOTD, Ouachita Parish, LA. *Lead Engineer.* This bridge consists of a main span utilizing steel plate girders as the primary superstructure elements, spanning over three continuous spans measuring 102 feet, 175 feet, and 102 feet respectively. The bridge approaches comprise three continuous spans of 84 feet each on both the north and south sides, resulting in a total structure length of 883 feet. The bridge is in a straight alignment with a skew of 68 degrees relative to a line perpendicular to the center line of the bridge. The main superstructure elements of the approaches are prestressed concrete AASHTO Type IV girders, while the bridge substructure consists of multi-column bents supported on concrete footings, which in turn are supported on prestressed concrete piles. Completed plan quality reviews, prepared the bridge Load Factor Rating (LFR) report, and assisted the environmental section of LADOTD in obtaining environmental clearance for the project. Provided construction support by reviewing the shop drawings submitted by the contractor.
09/13 – 11/14	LA 3188 Over I-10 Girder Repair Project, LADOTD, St. John Parish, LA. *Lead Engineer/Engineer of Record.* The bridge carries Los Angeles 3188 over I-10 in St. John Parish. The structure is 1365.25 feet long and consists of nine units, with each unit comprising two continuous spans designed to handle live loads. The main superstructure elements are AASHTO Type IV girders, supported by multi-column bents and concrete footings on prestressed concrete piles. The project primarily focused on the two-span unit over I-10, with spans measuring 102.5 feet and 90 feet, resulting in a total length of 192.5 feet. One of the exterior girders of this unit was damaged by the impact of a truck, necessitating its replacement. Responsible for preparing the rehabilitation plans, including demolition plans, construction sequence, general notes, and structural detailing for the reconstructed deck and new girder (AASHTO Type IV). Additionally, conducted shop drawing reviews and approved them during the construction phase.
04/22 – 06/22	Danville Bridge Repairs – Structure SN 092-6034, LFR-Illinois DOT (IDOT), Illinois. *Lead Engineer.* The SN 092-6034 is a three-span bridge located on County Highway I (F.A.U. 7000) over the North Fork Vermilion River. The bridge has a total length of 266 feet, 10 5/8 inches. The main span is a tied arch structure with a length of 170 feet, while the approaches consist of two simple span structures measuring 46 feet, 6 inches. The objective of the project was to conduct a Load Factor Rating (LFR) analysis of the structure, including both the approaches and the main span. The individual was responsible for preparing the LFR analysis specifically for the main span, which is a tied arch. This involved conducting a structural analysis of the main span, utilizing RMBridge, a finite element analysis software, to model all the structural elements. The individual generated a comprehensive range of rating trucks, as suggested in the IDOT Structural Services Manual, to determine the controlling force effects such as axial tension, flexure, and shears. Additionally, they calculated the capacities of the structural elements of the tied arch, including the arches, hangers, and tie girders, to be used in calculating the LFR for the various components. The LFR analysis followed the guidelines provided in the IDOT Bridge Design Manual, the IDOT Structures Services Manual, and the Manual for Bridge Evaluation.

Firm employed by	ARCADIS			Meets MPR No. 4
Name	Rhonda Tilt	Years of relevant experience with this employer		8
Title	Senior Planner	Years of relevant experience with other employer(s)		7
Degree(s) / Years / Specialization		BS / 1995 / Geophysics, University of Delaware		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities.		Planner		

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Tilt has more than 15 years of experience leading environmental compliance efforts for a variety of transportation projects in Georgia. Her experience includes projects ranging in complexity from pedestrian improvements, intersection improvements, bridge replacement, and new location roadway projects. She has a thorough understanding of environmental laws and regulations, such as the Endangered Species Act, Section 106 of the National Historic Preservation Act, and Section 4(f) of the USDOT Act. She has successfully led public involvement efforts and prepared Environmental Assessments (EAs), Categorical Exclusions (CEs), and Programmatic Categorical Exclusions (PCEs) in accordance with National Environmental Policy Act (NEPA) and Georgia Environmental Policy Act (GEPA). Her responsibilities include coordinating with environmental Subject Matter Experts (SME) to identify resources while adhering to schedules, collaborating with design teams to minimize/avoid impacts to environmental resources, and authoring environmental documents that comply with NEPA, the Federal Highway Administration (FHWA), GDOT, and other federal, county and city officials.
06/16 – 09/20	Kennesaw Mtn National Battlefield Multi-Use Trail EA Cobb County DOT, Cobb County, GA– *NEPA Lead*: Responsible for preparation of an FHWA/GDOT EA, FHWA/GDOT FONSI, NPS FONSI/Non-Impairment Statement, and FHWA/GDOT Re-evaluation for approximately 3.8 miles of pedestrian trails through and adjacent to Kennesaw Mtn National Battlefield. The *Environmental Assessment* required public involvement and coordination with multiple federal agencies and local governments, as well as studies related to the cultural landscape that were critical to the preservation of this Civil War battlefield.
06/18 – Ongoing	Region 1 General Engineering Services (Multiple PIs), GDOT Ridge Valley and Upper Piedmont Region, GA– *NEPA Lead*: Responsible for environmental compliance on projects ranging from intersection improvements to rural bypasses. Initiated and coordinated environmental resource identification, technical studies, public involvement efforts, and authored NEPA documents while adhering to the P6 schedule. Projects examples include: • PI 0009901, I-20 at Waco Road, Programmatic Categorical Exclusion (PCE) and Re-evaluation (Construction Year - 2023) • PI 0016106 | SR 6 at SR 100/Canal Street | PCE & Re-evaluation (Construction Year – 2023) • PI 0017970 | Watkinsville Bypass | Alternative Analysis (Construction Year – 2023) • PI 621600/662420 | S/SE Rome Bypass | EA Re-evaluation (Construction Year – 2023)
03/21 – 03/22	GEC On-Call: SR 316 (PI 0010352/0013910, 0013767, 0013902/ 0013903), GDOT Office of Innovative Delivery Design-Build and P3, Barrow/Oconee Counties, GA – *NEPA Lead:* Responsible for *NEPA compliance* and alternative analysis for three Design-Build projects on SR 316 that consist of reconstructing existing at-grade intersections into grade-separated crossings. Initiated and coordinated *environmental resource identification*, technical studies, and public involvement while collaborating with design and SMEs to align with the projects' schedules. *Public Involvement* efforts included two Public Information Open Houses (PIOH), a live streamed stakeholder meeting, and a live streamed Q&A session.

06/18 – Ongoing	Operational Improvement Program (Multiple PIs), GDOT, Region 2, GA – *GEPA/NEPA Lead:* Responsible for environmental compliance on multiple intersection. Special studies include historic and archaeological resources, natural resources, air quality, and noise. Authored environmental screening documents, coordinated with environmental subject matter experts, authored NEPA documents, and coordinated Public Involvement efforts. Improvements include modern roundabouts, Continuous Flow Intersection, reconfiguring multiple approach intersections into a single intersection, and adding turn lanes. Project examples include: • PI 0015920 | I-185 at SR 22 Spur Exit Ramp Improvements | GEPA (Construction Year – 2020) • PI 0016440 | SR 22 at SR 85 Interchange Improvements | GEPA (Construction Year – 2023) • PI 0016442 | SR 22 and SR 85 Intersection Improvements | GEPA (Construction Year -2023) • PI 0016443 | SR 372 at Birmingham Highway Roundabout | PCE (Construction Year – 2023)
06/18 – Ongoing	Traffic Safety Design Services (Multiple PIs) GDOT, Regional, GA– *NEPA Lead:* Responsible for preparation of environmental resource screenings and NEPA documents, including PCEs, CEs, and Re-evaluations. The Program involves reconfiguration of multiple intersections throughout Georgia and consequentially encompasses a variety of environmental resources such as historic structures/districts, archaeological sites, Traditional Cultural Properties, low-income and minority populations, natural resources, and underground storage tanks. Project examples include: • PI 0013862 | SR 16 at 42 | CE (Construction Year – N/A) • PI 0014159 | SR 16 at Higgins Road | PCE (Construction Year – 2023) • PI 0015686 | SR 11/SR 247 | CE and Re-evaluation (Construction Year – 2023) • PI 0015692 | SR 87 at Bass/Arkwright Road | PCE (Construction Year – 2023)

Firm employed by	ARCADIS			Meets MPR No. 11
Name	Osama Shahawy, PE	Years of relevant experience with this employer		3
Title	Bridge Practice Manager	Years of relevant experience with other employer(s)		30
Degree(s) / Years / Specialization		MS / 1991 / Civil (Structures), Florida State University BS / 1983 / Civil Engineering		
Active registration number / state / expiration date		PE.0035652 / LA / Exp. 09/30/2024		
Year registered	2001	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		Bridge/Structural Design		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Shahawy has over 33 years of structural bridge engineering experience working on various projects throughout Louisiana and the Southeast. He served as PM or TL on 100+ projects with extensive bridge plan, specification and estimate, rehabilitation and bridge replacement. His experience includes coordinating teams of engineers and other technical personnel on the preparation of bridge PS&E design/ management including on/off-system bridges in rural/urban areas with heavy utilities & complex TCP. Mr. Shahawy has a design background that provides for solid construction capabilities–a benefit that ensures constructible technical solutions and more complete construction documents. Leveraging his decades of experience, he will check accuracy, verify compliance to review comments, and will ensure that agency and stakeholder comments and concerns are addressed.
08/22 – Ongoing	Cross Bayou Bridge Replacement, Shreveport, LA. *Project Manager and Structure Task Lead*. Develop a Feasibility study to replace US71 bridges at Cross Bayou. An in-depth structural, roadway, and Traffic analysis was performed to develop the most effective cost for bridge replacement land roadway improvement. Alternatives were developed per the ASHTO LRFD Bridge Design Specifications Manual and LADOTD Bridge Design and Evaluation Manual (BDEM), and cost estimates for all alternatives were using average cost information per the LADOTD Project Delivery Manual. Provided the final recommendation for bridge replacement. Currently working on Stage 3 Preliminary and final plan development, followed by Stage 5 construction support.
10/20 – Ongoing	I-10 CMAR Segment 1, LADOTD, Baton Rouge, LA. *Structure Task Lead, Engineer of Record (EOR)* for CMAR project to improve I-10 through widening and reconstruction of the main line from three to four lanes in each direction, including bridge replacement and rehabilitation, interchange and ramp modification, shoulder widening, and auxiliary lane(s) from LA 415 to Essen Lane on I-10 and I-12. Responsibilities include designing the substructure for the Terrace- Washington bridges, including temporary and permanent bridge widening. Participates in task force meetings and works with the CMAR Contractor and DOTD to develop preferred bridge concepts. Responsible for QC/QA of all designs, plans, and estimated quantities per LADOTD guidelines.
05/20 – 11/20	Alphonse Forbes Bridge Replacement, City of Baton Rouge/East Baton Rouge Parish, LA. *Structure Manager* for replacing the Alphonse Forbes Road Bridge over Sandy Creek in Central Louisiana. The project will replace an existing bridge with a nine-span flat slab bridge on pile bents. The project was designed to fit within the existing right-of-way and meet the required hydraulic opening while minimizing roadway alignment and profile changes. I reviewed bridge plans and calculations, provided red lines, reviewed comments, and estimated quantities per LADOTD guidelines.

07/11 – 05/13	MacArthur Drive Bridge Interchange, Rapides Parish, LA. Structure Manager, Engineer of Record. Responsible for widening, revising, and redesigning the MacArthur Drive Interchange completing Phase 1. The design and plan production are related to the changes required for Ramps 7 and 8. Design deck slab for 18 spans, which include Trapezoidal girders & Bulb-T girders. Design Bearing Pads for all proposed Trapezoidal and Bulb-T girders. Designed inverted-T caps and special geometric columns for piers. Responsible for designing and producing geometric and span layout modifications, superstructures, and substructures. Review for accuracy and completeness of the plans and related designs prepared for the project. Ensures quality and adherence to established design policies, procedures, LADOTD BDEM, LSSRB, standards and guidelines in preparing and reviewing all design products for compliance and good engineering practice as directed by a Project Quality Control Plan.
07/11 – 05/13	LA 1 over I-19 Bridge Rehabilitation, Rapides Parish, LA. Project Manager, Engineer of Record. Provided professional inspection, rehabilitation design, and construction engineering services. The bridge is a four spans steel plate girder structure with uneven settlement and rotation at the abutments. It required rehabilitation to stabilize the movement and raise the bridge back to its original elevation as it was built. Responsibilities included directing the team and overall tasks involving preparing geometric layout plan development, bridge design, and final plans, specifications, and estimates for LA 1 Bridge over I-49, according to LADOTD BDEM. We performed QA/QC, prepared construction cost estimates, and reviewed/revised plans based on LADOTD comments.
08/20 – 03/22	I-10 New Orleans to Slidell Hard Shoulder Design and Feasibility, LADOTD, New Orleans, LA. Structure Manager. Conducting bridge design evaluation using Active Transportation and Demand Management (ATDM) strategies on 1-10 in Orleans and St. Tammany Parishes. The Project is to determine improvements in implementing shoulder lanes on Interstate 10 in the New Orleans East area. Responsibilities include preliminary bridge design to determine construction cost for structure widening of EB & WB I-10 based on four scenarios utilizing existing shoulders on 1-10 as one of the scenarios.
07/11 – 05/13	Mississippi River Bridge at Vicksburg, Mississippi, LA. Project Manager, Engineer of Record. Responsible for the four-lane continuous main steel-truss through-deck bridge covers a total length of 1,716 ft. and a width of 60 ft. The central truss consists of two symmetrical 640.5 ft. cantilever spans and one 435 ft. drop span. The approach spans consist of 101 prestressed concrete spans and reinforced concrete pier caps. Responsible for review of as-built plans and all rehab projects plans; indexed and developed inspection forms; supervised and reviewed results from the 3D computer model; model calibration; performed QA/QC according to LADOTD BDEM and assisted in developing the final report.
07/11 – 06/12	I-10 over Calcasieu River - Lake Charles Bridge, Lake Charles, LA. Project Manager, Engineer of Record. Responsible for bridge inspection that includes four steel deck trusses and a cantilever steel through-truss for the central span portion of the bridge, covering a total length of 6,617 ft. with a width of 62.67 ft. The east and west approach spans of the bridge consist of two bridge systems: first, a longitudinal girder system supported on steel bents; second, a fracture-critical span system consisting of a two-girder, floor beam, and stringer system. Responsible for review of the as-built and rehab project plans and indexing; developed inspection forms; supervised and reviewed the results from the 3D computer model; model calibration; performed load rating based on the present condition, capacity, and loading of the bridge; rated the gusset plate and connection systems following the Federal Highway Administration (FHWA)-IF-09-014; performed QA/QC and assisted in developing the final report.

Gresham Smith

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

Principal / Project Manager

MPR 5

Years of experience with this firm/employer	9
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	Gresham Smith Principal / Project Manager / Bert will oversee the entire project and support the Traffic Engineering Analyses 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).
Career	In his 25 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
1/19 – Ongoing	**LADOTD, ITS CEI Retainer, Lake Charles Phase 3 ITS, CEI, Lake Charles, LA | *Project Executive.*** 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.
10/18 – Ongoing	**LADOTD, LCG Adaptive Traffic Signal System, Lafayette, LA | *Project Executive.*** 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.
4/19 – 5/20	**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.
8/15 – 11/18	**LADOTD, ITS Design & Implementation WO#4: I-10 Twin Span ITS-Orleans & St. Tammany Parishes, Statewide, LA | *Project Executive.*** 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.
7/16 – 7/18	**LADOTD, ITS Design & Integration WO#5: I-12 Ramp Meter Upgrades, East Baton Rouge and Livingston Parishes, LA | *Project Executive.*** 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.
6/16 – 9/17	**LADOTD, ITS Design & Integration WO#3: ATMS.Now Design and Integration, Statewide, LA | *Project Executive.*** 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.
4/17 – 8/17	**LADOTD, ITS Design & Implementation WO#8: Emergency Vehicle Preemption (EVP) Devices SEA, East Baton Rouge Parish, LA | *Project Executive.*** 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.
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

Gresham Smith

Christina Florez, P.E.

Engineering Plans, Specs and Construction Estimates Lead

Years of experience with this employer	8
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	Christina will lead the Engineering Plans, Specs and Construction Estimates and support the ITS / Systems Engineering Analyses and Technical Support During Construction 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).**
Career	Christina has been a senior project manager/electrical engineer on complex ITS projects over the past 23 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.
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 multijurisdictional 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.
3/20 – 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.
1/19 – 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.

2017 – 2020	**FDOT D6 - SR 826/Palmetto Expy from E of NW 57th Ave to E of NW 42nd Ave, Miami, FL | *Project Manager/ITS EOR*.** Christina was responsible for project management, ITS design, segment coordination, discipline coordination, and QAQC. The design included CCTV cameras, DMS, arterial DMS, MVDS, and Ramp Signaling, lightning protection, fiber optic communications network and power distribution system with stand-by generator. Responsibilities – Project Management, ITS Engineer of Record
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 – 9/17	**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.
10/10 – 8/17	**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.
12/15 – 3/17	**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.
9/15 – 9/16	**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.
2009 – 2016	**FDOT D6 - Section 5 - SR 826 and SR 836 Interchange Reconstruction Design-Build, Miami-Dade County, FL | *Project Manager/ITS EOR.*** Responsible for systems engineering management documentation, development of the ITS master plan, project design, development of test plans, report preparation and post-design services. The design-build project includes the design, installation and upgrade of ITS components and subsystems, including fiber-optic and wireless communications, 30 CCTV cameras, 41 microwave detectors, six freeway DMSs and 18 arterial DMSs along both SR 826 and SR 836 and two separate power distribution systems. Responsibilities – Project Management, ITS Engineer of Record, Test Plans Development, Master Plan Development, SEA Document Development, Post-Design

Gresham Smith

Julian Bordelon, P.E.

Task Order Manager (ITS) / Technical Support During Construction Lead

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

Degree(s) / Years / Specialization	Bachelor of Science / 2018 / Electrical Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E. 0047473 / LA / Exp. 9/30/25		
Year registered	2023 (LA)	**Discipline**	P.E./Electrical
Contract role(s) / brief description of responsibilities	Task Order Manager (ITS) / Julian will lead the Technical Support During Construction task and support the Engineering Plans, Specs and Construction Estimates 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).**
11/22 – Ongoing	**LADOTD, CEI H.013256, Scott to Lake Charles ITS, CEI, Lake Charles, LA | *Project Engineer*.** 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.
10/20 – Ongoing	**MDOT ITS, Meridian ITS Design, Meridian, MS | *TSM&O Engineer.*** Gresham Smith is developing a system engineering analysis, ITS design plans, and specifications for I-59/I-20 between the I-59 @ I-20 interchange and the Mississippi state line. The project will install new ITS equipment including fiber, electrical systems, cabinets, camera poles, Dynamic Message Sign (DMS) structures, and a communications hub. Julian performed system engineering analysis, ITS design, voltage drop calculations, plans preparation, and field reviews.
9/20 – Ongoing	**Jefferson Parish - Train Detection System, New Orleans, LA | *ITS Systems Specialist.*** Gresham Smith performed a system engineering analysis and concept of operations to develop a train detection system. Julian is responsible for developing the background functionality of train location prediction to send to the smart phone application.
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 – 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.
1/19 – 3/24	**LADOTD, CEI H.011500.6, 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.
12/18 – 10/22	**TDOT, ITS Design Support Services WO#7: I-40 Nashville ITS Expansion, Nashville, TN | *ITS Systems Specialist.*** Julian is assisted with the electrical design and voltage drop calculations and back checking of plans.

2/20 – 8/22	**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.
1/19 – 12/22	**LADOTD, ITS CE&I IDIQ, Task Order #2 & ITS CEI WO #4: Fiber Optic Mapping & Management, Ascension, East Baton Rouge, West Baton Rouge, Livingston, Terrebonne, Lafayette, Pointe Coupee, St. Landry and Rapides Parishes, LA	*Pre-Professional.*** Gresham Smith was tasked with expanding the Fiber Optic Mapping & Management system to various parishes. Julian was responsible for data entry, document development and quality control.
1/21 – 4/22	**GDOT, ITS Design: I-285 @ I-20 East Interchange Design Build, Atlanta, GA	*Pre-Professional.*** Gresham Smith developed design plans along with specifications and cost estimates for the I-285 @ I-20 ITS project. The project removed existing ITS equipment and installed new ITS equipment including fiber, electrical systems, cabinets, camera poles, Dynamic Message Sign (DMS) structures, and connections to existing communications hubs. Julian assisted with ITS design, voltage drop calculations, and plans preparation.
3/20 – 3/22	**MDOT, SR601 ITS Design, Gulfport, MS	*ITS System Specialist.*** Gresham Smith developed system engineering analyses, ITS design plans, and specifications for two sections of the new SR601 between I-10 and 11th Street. The project installed new ITS equipment including fiber, electrical systems, cabinets, camera poles, Dynamic Message Sign (DMS) structures, Bluetooth detection, radar detection, a communications hub, and a highway advisory radio. Julian performed system engineering analysis, ITS design, voltage drop calculations, and plans preparation.
2/18 – 9/21	**LADOTD, ITS CEI Retainer, Signal Communications Upgrade Phase 1, CEI, Various, LA	*Pre-Professional*.** Gresham Smith is providing Construction Engineering Inspection Services, including a Project Engineer, on-site daily/nightly inspection and technical construction inspection, throughout the course of construction. Julian assisted with construction contract administration, field investigations, integration and testing, and construction inspection.
12/18 – 6/21	**TDOT, ITS Design Support Services WO#8: Cumberland Plateau I-40 ITS Expansion, Cookeville, TN	*ITS Systems Specialist.*** Julian is assisted with the electrical design and voltage drop calculations and back checking of plans.
12/18 – 1/19	**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.
8/23 – Ongoing	**City of Helena - Train Detection System, Helena, AL	*Project Engineer*.** Gresham Smith is designing and developing a train detection system and mobile app for three rail road crossings in Helena. Julian is responsible for device configuration, electrical design, site detailing, voltage drop calculations, and field reviews.
1/22 – Ongoing	**MovEBR - ATMC & VDMS, Baton Rouge, LA	*Project Engineer*.** Gresham Smith performed a system engineering analysis to develop a redesign of the East Baton Rouge Traffic Engineering Office and the initial design of the East Baton Rouge Video Distribution Management System. Julian assisted with the system engineering analysis, stake holder workshop, concept of operations, high level design, and beta testing of the VDMS webpages.
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

Gresham Smith

Alben Cooper, III P.E., PTOE

Task Order Manager (Traffic)

MPR 5

Years of experience with this employer	1
Years of experience with other employer(s)	17

Degree(s) / Years / Specialization	Bachelor of Civil Engineering / Louisiana State University		
Active registration number / state / expiration date	P.E.0036291 / LA / 9/30/25		
Year registered	2011 P.E. (LA) 2012 PTOE (LA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Task Order Manager (Traffic) / Alben will support the Traffic Engineering Analyses and support the Technical Support During Construction 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).**
07/11-10/13	**Orleans Parish, Broad St and General De Gaulle Dr TSP Systems Engineering Report, New Orleans, LA | Lead Engineer.** Mr. Cooper was the lead engineer for this project which included the preparation of a Systems Engineering Report (SER) outlining an implementation plan for a fully integrated Transit Signal Priority system for two bus routes in Orleans Parish (Broad Street and General De Gaulle Dr). The SER was prepared to meet requirements set by FHWA. The report included identification of existing systems, concept of operations, compatibility requirements, stakeholder responsibilities and protocol, and procurement options. An addendum to the SER was prepared which included an existing bus stop inventory, identification of bus stops to be relocated to the far side of the intersection, a Stage 0 Preliminary Scope and Budget Checklist, and a draft Request For Proposals. Mr. Cooper worked closely with stakeholders and FHWA to ensure requirements were met and the system would operate as desired.
01/18-12/18	**Jefferson Parish, Veterans Blvd TSP Systems Engineering Report, Jefferson, LA | Lead Engineer**. Mr. Cooper was the lead engineer for the preparation of a Systems Engineering Report outlining an implementation plan for a fully integrated TSP system for Jefferson Parish Transit (JeT) Route E1 along Veterans Boulevard. The report included identification of existing systems, concept of operations, compatibility requirements, stakeholder responsibilities and protocol, and procurement options. Mr. Cooper worked closely with stakeholders and FHWA to ensure requirements were met and the system would operate as desired. .
08/21-06/22	**MovEBR, Contract for Signal Rebuild Phase 2 Design Services Parish Synchronization & Communication, Baton Rouge, LA | Lead Traffic Engineer.** Mr. Cooper was responsible for overseeing the traffic study and signal design for five intersections in East Baton Rouge, LA. Services include all traffic investigations, data collection, analysis, and preparation of final signal construction contract plans. The traffic studies will be performed to determine recommended signal phasing, timing and coordination parameters. The signal design is expected to include the upgrade of each signal to mast arms and pedestrian accommodations.
05/21-08/21	**Jefferson Parish, MSY Roundabout Evaluation, Jefferson Parish, LA | Lead Engineer.** As the lead engineer Mr. Cooper was responsible for the analysis of various scenarios to estimate the design life of the existing roundabout

	located at the entrance/exit of the MSY airport in Jefferson Parish, LA. Analysis was performed for various growth rates using Synchro software. Additional analysis was also performed for two potential improvements to the roundabout to determine if they would extend the design life of the intersection. The results of the analyses were graphed and summarized in a letter by Mr. Cooper. The information was provided to be included in a presentation for airport personnel for consideration.
08/20-07/21	**Jefferson Parish, Manhattan Blvd Northbound Widening Signal Modifications, Jefferson Parish | Lead Engineer**. Alben was the lead engineer for a signal modification project to accommodate an additional northbound lane on Manhattan Blvd from 9th St to Gretna Blvd. Modifications were required at two intersections, Target Blvd and Gretna Blvd. Additional modifications were required based on the relocation of utilities along the corridor. Mr. Cooper performed QA/QC for each of the signal designs.
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

Gresham Smith

Richard Savoie, P.E.

QA/QC

MPR 10

Years of experience with this firm/employer	6
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 Transportation Engineer / Richard will perform QA/QC of Design Plans, Specifications and Construction Estimates.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the 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.
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.
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.
02/90 – 3/14	**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.

Gresham Smith

Rebecca Murray, P.E., PTOE, RSP1

Traffic Engineering Analyses Lead

MPR 5

Years of experience with this employer	9
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. 3/31/26 | PTOE 4861 / Exp. 3/26/26 | 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 lead the Traffic Engineering Analysis 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).**
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 to minimize the traffic delays associated with 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 drafting 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 accommodations 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.

Brennon Hughes, P.E.

Transportation Engineer

MPR 10

Years of experience with this firm/employer	7
Years of experience with other firm(s)/employer(s)	6

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

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
04/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design	*Lead Roadway/Roundabout Design Engineer*.** Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Brennon led the design and preparation of preliminary plans and cost estimates. This project is currently undergoing scope adjustments for final design.
03/21 – Ongoing	**MSY Airport: Entrance Road Capacity Design	*Lead Roadway Design*.** Brennon was responsible for planning and coordinating staffing, scheduling, and budgeting for this project. He also led the design and the preparation of preliminary and final plans and cost estimates. He worked closely with Airport officials along with the consultant for the adjacent design-build project to coordinate the widening of the entrance road to the MSY Airport.
08/17 – 12/20	**LADOTD, SRTS/LRSP Task Order 6 and 21: Endom Bridge Preliminary and Final Design, West Monroe, LA	*Lead Roadway Design Engineer.*** Brennon led the design and the preparation of preliminary and final plans and cost estimates. This project involved safety and operations improvements for the intersection realignment, curb and gutter drainage design, sidewalks, truck islands and turnouts.
10/15 – 08/17	**LADOTD, Multilane Roundabout LA 22 at LA 70 and LA 22 Geometric Improvements near I-10, Ascension Parish, LA	*Lead Roadway Design*.** This was a widening and intersection improvement project located at the intersection of LA 22 and LA 70 in Ascension Parish to north of I-10. This project included widening of LA 22, a double lane roundabout at LA 22 and LA 70 with a slip lane, along with two J-Turns north of I-10 and two J-Turns south of I-10 along LA 22. Brennon's role was to lead the design and the preparation of preliminary and final plans and cost estimates. He developed these plans from initial survey request up to 60% final plans.
09/11 – 07/17	**LADOTD Roadway Group.	*Project Engineer*.** Prior to joining Gresham Smith, Brennon served with the LADOTD Roadway Group as a designer on various roadway projects including a new roundabout, widening projects, overlay projects, and intersection improvements.
Certifications (See section 20)	• DOTD FHWA-NHI-380096V Modern Roundabouts: Intersections Designed for Safety • American Traffic Safety Services Association –Traffic Control Supervisor, LA State Specific

Gresham Smith

Ronnie Robinson, P.E.

Senior Engineer

MPR 10

Years of experience with this firm/employer	8
Years of experience with other firm(s)/employer(s)	33

Degree(s) / Years / Specialization	Bachelor of Science / 1982 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	P.E.0024040 / LA / 3/31/24		
Year registered	1988	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Roadway Designer / Ronnie will assist with the road design tasks for the preliminary and final plans.		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
04/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design | *Senior Transportation Engineer*.** Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Ronnie provided quality control for the preliminary design phase, participated in the plan-in-hand meeting, and will provide design assistance for the development of the final design plans.
02/17 – 12/20	**LADOTD, SRTS/LRSP Task Order 6 and 21: Endom Bridge Preliminary and Final Design, West Monroe, LA | *Senior Transportation Engineer.*** Ronnie's responsibilities included assisting in the development of preliminary and final plans and construction cost estimates. His efforts included coordination of the contaminated waste investigation, drainage layout and quality control for the preliminary design.
07/17 – 06/19	**LADOTD, SRTS/LRSP Task Order 7: McMillan at Blanchard Intersection Improvements Design, West Monroe, LA | *Senior Engineer.*** Ronnie's responsibilities included conducting field traffic observations and collecting field data for the study portion. For the design portion, his responsibilities included developing conceptual designs, preliminary and final plans and construction cost estimates.
03/16 – 10/17	**LADOTD, Farmerville State and Local Road Traffic Study, Farmerville, LA | *Senior Engineer.*** Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around the City of Farmerville on both state and local routes. The project included data collection, safety/crash review, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Ronnie assisted with the development of alternatives and was responsible for developing construction cost estimates for various alternatives.
Career	Ronnie has 33 years of experience with the Louisiana Department of Transportation and Development. He worked 11 of his 16 years in construction as a project engineer, eight years as manager of the design and permit sections and nine years as administrator for the design, water resources, permit and materials testing sections

Gresham Smith

John Weres, P.E.

Senior Bridge Engineer

MPR 11

Years of experience with this employer	6
Years of experience with other employer(s)	37

Degree(s) / Years / Specialization	Bachelor of Science / 1980 / Civil Engineering, University of Pittsburgh		
Active registration number / state / expiration date	PE.0036429 / LA / Exp. 9/30/23		
Year registered	2011 (LA) 1985 (PA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	John serve as the overall bridge design lead, and will oversee the design of the bridge structures.		

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	John's 40+-year career includes diverse structure related activities including inspection, alternatives analysis, final design and construction management and program management. Experience includes multi-level interchanges, complex geometry, truss rehabilitations and suspension bridge rehabilitations, phased construction, deep foundations, complex pier geometry, and movable bridge inspection and design. John served as Team Leader on several LA DOTD complex bridge inspections and as Project Manager for underwater bridge inspections for TDOT. NHI Certified 130055 (Team Leader), 130078 (Fracture Critical Steel), and 135048 (Countermeasure Design). Also, FAA Part 107 USAS (drone) licensed pilot.
04/12 – 11/12	**PennDOT District 12-0, Keystone Lake Bridge Emergency Replacement, Westmoreland County, PA | *Project Manager.*** John served as project manager for the $1.2 million emergency replacement utilizing design/build concepts for an 80' concrete box structure. Following an emergency closing of the bridge, PennDOT selected Mr. Weres' firm to perform the emergency design based on a history of quick resolutions. The design was coordinated with a contractor hired to perform the emergency replacement, therefore, design-build principals were utilized and the design was based on readily available precast concrete beams. The design was coordinated with the state park personnel to reduce impacts on the patrons. Environmental concerns included the relocation of mussels at the bridge site and the construction equipment utilized mineral oil rather that diesel fuel for the pile driving equipment to avoid overspray into Keystone Lake. Form liners and stained concrete were utilized to meet context sensitive design requirements.
01/09 – 12/11	**PennDOT District 1-0, Cooperstown Bridge Replacement| *Project Manager.*** $2.2 million offline replacement of a 2-span, 135' concrete box structure founded on steel pile foundations. John served as project manager for the preliminary and final design phases. An extensive public communications process was coordinated with the engineering analysis to determine the preferred location of the new structure and to maintain traffic on the existing structure during construction. Coordination with the PA Fish & Boat Commission was conducted to install a new parking lot for fisherman within the footprint of the existing bridge approach roadway.
06/11 - 12/13	**PennDOT District 10-0, Kimmel School Bridge | *Project Manager.*** John served as project manager for this $3 million project that included design of a 220' superstructure replacement project using phased construction. The bridge carried US 22 on four lanes of heavily traveled roadway. The superstructure was replaced in phases to maintain traffic at all times.
01/12 – 01/14	**North Carolina DOT, Division 9 Group J Bridge Replacements | *Lead Structure Engineer.*** John served as lead structure engineer for the replacement of six stream crossing structures using NCDOT Low Impact Bridge Replacement guidelines for

	Sub-Regional Tier structures. Plan development for final design includes one, two, and three-span structures utilizing standard cored-slab design plans. Span arrangement development required coordination with hydrology evaluation and environmental agency oversight. Foundation details include both drilled shafts and driven steel piles.
6/19 – 03/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | *Project Manager*. Task Order 1 -** Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River. Gresham Smith was able to complete the inspection of Bridge 005860, in Jeanerette, a steel swing truss and Bridge 009130, in Charenton, a steel swing truss – within the original budget for the initial three bridges.
04/20 – 9/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | Task Order 2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, LA | *Project Manager*.** In April 2020, a train derailment damaged Bent 3 of the Spring Street Bridge forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the selected contractor, helical piles were designed to support the new column foundations and crash wall. John served as the design coordinator and facilitated the repairs.
07/20 - Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA | *Project Manager*. Task Order 3 -** Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
03/21 – Ongoing	**MDOT, SR 149 Simpson County Bridge Replacements, MS | *Lead Structure Engineer.*** Gresham Smith is partnering with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D'Lo, Simpson County, Mississippi. Gresham Smith is designing the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.
11/17 – 12/20	**MDOT, MS-178 Benton County Bridges, Benton County, MS | *Lead Structure Engineer*.** John served as the Lead Design Engineer for the final design of a 2-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
07/19 – Ongoing	**TDOT, Complex Bridge Load Ratings, Statewide, TN | *Senior Structural.*** Gresham Smith load rated 23 continuous and curved steel tub girders and two steel arch bridges with the roadway suspended from the arches by steel cables supporting a floor beam-stringer deck support system for WO#5. Based on our performance on WO #5, we were entrusted with a second work order, WO11-System Bridges and WO12-Off System Bridges, to load rate a total of 41 complex bridges within a 2-3-month time frame to help the State meet a critical FHWA Deadline.

Gresham Smith

Tom Tran, P.E.

Senior Bridge Engineer

MPR 11

Years of experience with this employer	9
Years of experience with other employer(s)	22

Degree(s) / Years / Specialization	Bachelor of Science / 1991 / Civil Engineering, University of Central Florida		
Active registration number / state / expiration date	PE.0032072 / LA / Exp. 3/31/26		
Year registered	2005 (LA)	**Discipline**	P.E./Civil
Contract role(s) / brief description of responsibilities	Senior Bridge Engineer / Tom will lead the bridge-related QA/QC efforts.		

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).
6/19 – 03/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | *QA/QC*. Task Order 1 -** Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River. Gresham Smith was able to complete the inspection of Bridge 005860, in Jeanerette, a steel swing truss and Bridge 009130, in Charenton, a steel swing truss – within the original budget for the initial three bridges.
04/20 – 9/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | Task Order 2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, LA | *QA/QC.*** In April 2020, a train derailment damaged Bent 3 of the Spring Street Bridge forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the selected contractor, helical piles were designed to support the new column foundations and crash wall.
07/20 - Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA | *QA/QC*. Task Order 3 -** Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
6/14 – 03/17 With another firm	**LADOTD, Complex Bridge Inspections, Statewide, LA | *QA/QC*.** Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the Louisa Bascule Bridge in St. Mary's Parish. John served on the field inspection teams for the I-20 Mississippi River Bridge in Vicksburg and the LA 47 Bridge over the Mississippi River Gulf Outlet. The study was to determine the structural adequacy of the bridge with the addition of a center median.
06/21 – 08/21	**FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL | *QA/QC.*** Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
07/19 – Ongoing	**TDOT, Complex Bridge Load Ratings, Statewide, TN | *Senior Bridge Engineer.*** Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for

	center span bridges. The standard structures were analyzed using the AASHTOWare BrR software. Tom provided quality control review for the complex arch structures.
08/20 – Ongoing	**GDOT, State Wide Engineering On-Call for Bridge Repair, Statewide, GA | *Project Manager*.** This contract includes, Inspection, load rating and repair of problematic bridges thru out the state of Georgia. Typical scope includes inspection of bridge, verification of repair needed, development of repair plans, development of special provision, advertisement of project, review of shop drawings and post construction services as needed.
11/14 – 10/17	**MDOT, MS-309 Bridge Replacements, Marshall County MS | Lead Bridge Engineer.** Tom served as the EOR for this project. The design included replacing full timber structures with AASHTO beam structures supported by either concrete piles or pipe piles. Span lengths ranged from 41' to 140'. Structure arrangements varied from 3-span to 6-span structures. Work included Services During Construction, scheduled for completion Fall 2021.
11/13 – 10/14	**MDOT, Roadway WA #4: US 82 Underpass Bridge Removal at Leland, Leland, MS | *Lead Bridge Engineer*.** Gresham Smith was tasked with the US 82 Underpass Bridge Removal projects to provide a feasibility study and engineering design services as required to prepare Phase A (preliminary design) plans for removal of an abandoned railroad under-pass bridge and reconstruction of approximately 1,000 linear feet of US 82 near the Old Hwy. intersection in Leland.
08/07 – 01/12	**GDOT, SR 10/US 78 Bridge Replacement at Apalachee River, Walton, GA | *Senior Bridge Engineer*.** This project consists of replacing the existing SR 10/US 78 bridge over the Apalachee River at the Walton/Oconee County line. The existing 418-foot-long historic westbound bridge is to be replaced with a 410-foot-long bridge located north of the existing bridge. The historic bridge will remain in place. The existing 397-foot-long east bound bridge will remain. The contributing basin is 136.16 square miles. The existing bridge has a studied flood plain and floodway.
1/13 – 6/14	**LADOTD, ITS Design and Implementation Services, WO#4: I-10 Twin Span ITS-Orleans & St. Tammany Parishes, Statewide, LA | *Structures Design Lead*.** Tom led the detailed structural analyses of new camera poles and the DMS poles could be installed on the existing foundations within the bridge structure. The DMS pole required a butterfly cantilever to support the new front access LED DMS enclosure. This was the first of each to be installed along the interstate system in Louisiana.

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	Karla E. Weston, PE		Years of relevant experience with this employer	19	
Title	President		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			Bachelor of Science / 1999 / Civil Engineering		
Active registration number / state / expiration date			31010 / Louisiana / March 31, 2024		
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Mrs. Weston's 25 years of experience with LADOTD and other municipal entities on transportation projects provides her the knowledge and ability to oversee the firms' role as a sub-consultant and ensure the work is completed to LADOTD standards.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/24 – 03/24	**RN Nuccio Rd SUE**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this bridge replacement project. CD&C, Inc. provided SUE utility locations with SUE QL-B utility designation. CD&C, Inc. provided all SUE reports and data.
01/24 – 03/24	**RN Berry Bowl SUE**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this bridge replacement project. CD&C, Inc. provided SUE utility locations with SUE QL-B utility designation. CD&C, Inc. provided all SUE reports and data.
04/24 – 05/24	**BRMA FAA Boring**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this project. This project included the coordination of SUE QL-B utility information and boundary survey of over 4 acres. Survey crews collected data to incorporate for the final deliverable which included boundary plat, and SUE reports, data, and plans.
03/24 – On-Going	**MSY East Apron Expansion**: Mrs. Weston's serves as Principal-in-Charge for the firm's SUE work on this project. This project includes the coordination of SUE QL-B utility information and topographic survey for over 7 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
03/24 – 05/24	**MSY Employee Parking**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this project. This project included SUE QL-B utility information and topographic survey for approximately 0.5 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
02/24 – 05/24	**BRMA Radar Decomp**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 2 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
12/23 – 05/24	**BRMA Taxiway F Reconstruction**: Mrs. Weston's served as Principal-in-Charge for the firm's SUE work on this project. This project included SUE QL-B utility information and topographic survey for over 25 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
02/16-09/19	**H.003047 Pecue Lane/I-10 Interchange, Baton Rouge, LA**: Mrs. Weston's served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design services of the West Bound on Ramp to I-10, the West Bound Off Ramp from I-10, the

	extension to Rieger Road and Pecue Lane Extension. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
12/13 – 10/19	**H.02960 Gramercy Bridge, St. James Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project
02/14 - 02/15	**H.010620 I-49 Design Build, Lafayette, LA**: Mrs. Weston provided QA/QC review for the Roadway Design Plans on this Design-Build Project for part of the I-49 South Corridor.
05/13 – 05/14	**H.009288.5 LA 1 Railroad Bridge at DOW, WBR Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project. She has worked to oversee the firms design and coordination with prime consultant team.
01/06 – 12/12	**EBR City/parish Project No. 06-CS-HC-0018, Fairchild-Badley Roadway, EBR Parish, LA**: Mrs. Weston served as Principal in Charge for this project that was approx. 1.25 miles in length along Fairchild-Badley Road and also included approximately 600 linear feet of Elm Grove Garden Dr. CD&C designed the upgrade to the existing narrow roadway to a typical section of 2-11' lands with a 2' barrier curb and gutter, and a 6' adjacent sidewalk. This included the design of a new sub-surface drainage system throughout the length of the project as well.
03/12 – 07/12	**H.009104.5 - Sunshine Bridge Phase 2:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to the Sunshine Bridge.
05/11 – 04/12	**Red River – Jackson Street Bridge, Alexandria, LA:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project. CD&C provided the Traffic Control design plans including detour maps of local road network for the replacement of the Jackson Street Bridge over the Red River.
06/12 – 10/12	**H.009986 – Paths 2 Progress. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 33:** Ms. Weston served as the Principal-in-charge/Project Manager for this roadway rehabilitation project of roads in Jefferson Parish. This included field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
12/11 – 4/12	**H.005902.5 - Consulting Services for the Permanent Repair to Federal Aid Eligible Roads as a Result of Damage due to Hurricane Katrina in 2005. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 29:** Ms. Weston served as the Principal-in-charge/Project Manager for this project which included survey, field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina in the City of New Orleans, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.

Firm employed by	**Civil Design & Construction, Inc. (CD&C) MPR 6, MPR 7**			
Name	Chris Ballard, PLS	Years of relevant experience with this employer	8	
Title	Survey Manager	Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization		BS / 2004 / Biological Science / Southeastern LA University		
Active registration number / state / expiration date		5033 / Louisiana – September 30, 2022		
Year registered	2010	Discipline	Land Surveyor	
Contract role(s) / brief description of responsibilities.		Mr. Ballard serves as the Survey Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/23 – 05/23	**H.012618 LA 347 Drainage Improvements:** Mr. Ballard is the Survey Manager for this project. Topographic Survey for just over 2 miles of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
02/23 – 12/23	**H.012027.5 - I-20 UPPR**: Mr. Ballard is the Survey Manager for this project. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.
09/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA**: Mr. Ballard is the Survey Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
04/17-07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA**: Mr. Ballard is the Survey Manager for this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.
02/19-09/19	**Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA**: Mr. Ballard is the Survey Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.

01/17-12/17	**East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA:** In 2017, CD&C performed topographic surveys for at least 4 Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Manager on each of these projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16-11/16	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA:** Mr. Ballard served as the Project Manager for this Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data, verification, and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-stop until field work was completed in less than 3 weeks.
09/17-09/17	**H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA**: Mr. Ballard is the Survey Manager for this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek. Several of these bridges including the US190 one was surveyed utilizing 3D Terrestrial Scanning.
10/15 - 12/18	**H.003184.5 I-10 Texas State Line – East of Coone Gully, Calcasieu Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was used in conjunction with traditional means and methods for the completion of this project.
01/16 - 08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project. CD&C provided a complete topo survey & drainage map along with utility coordination for the project. Project duties included processing of data, review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized 3D Terrestrial Scanning for the main route.
10/15 - 01/16	**H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.
06/11 - 09/13	**H.002372 LA 42 Widening and Improvements, Ascension Parish, LA**: Mr. Ballard worked as a PLS on this project which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the survey limits. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning.

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**			
Name	Madison Mills, PLS	Years of relevant experience with this employer	3	
Title	Survey Project Manager	Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization		BS / 2016 / Civil Engineering		
Active registration number / state / expiration date		PLS 5293/LA/03/31/2025		
Year registered	11/15/2022	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities.		Mr. Mills joined CD&C in 2021 as a Land Surveying Intern and has recently been licensed as a Professional Land Surveyor. He serves as a Survey Technician and assistant PM for CD&C working to manage field crews, process field crew data, and finalize deliverables.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/23 – 05/23	**H.012618 LA 347 Drainage Improvements:** Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 2 miles of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
09/23 – 12/23	**H.015619.5 LA 106:** Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 8 miles of roadway. Traditional means and methods was used to collect limited topographic data for this overlay and roadway rehabilitation project. Project was completed to LADOTD Location and Survey Standards and practices.
05/23 – 08/23	**H.015056 - LA 685:** Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 4,503 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
05/23 – 08/23	**H.015058 - LA 14 Business:** Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 12,300 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
02/23 – 12/23	Mr. Mills is the Survey Project Manager on this project. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices
08/22 – 02/23	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
01/22 – 11/22	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
09/21 – 03/22	**H.014747 Southern University Ravine Protection, East Baton Rouge Parish**: Mr. Mills served as a Survey Technician for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University The topographic data for this project was collected both traditionally and utilizing 3D Scanning.
08/21 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA**: Mr. Mills served as a Survey Tech for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE

	personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA**: Mr. Mills served as a Survey Tech for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
02/21 – 07/22	**H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
02/21 – 07/22	**H.013955 LA 961 Bride at Sandy Creek, West Feliciana Parish, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
02/21 – 07/22	**H.013956 LA 961 Bridge at Beamon Rd. Bayou Maringouin, Pointe Coupee Parish, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
07/21 – 11/21	**H.009290.5 Safe Routes to Schools – LSU Sidewalk Improvement near LSU Lab School, Baton Rouge, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
02/21 – 05/21	**H.010108 Safe Routes to Schools – Independence Sidewalks, Baton Rouge, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
07/21 – 12/21	**H.0014560.5 LA 94 Vermillion River, St. Martin Parish, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**

Name	Bradley Jacobs, EI	Years of relevant experience with this employer	2	
Title	Survey Technician	Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization		BS / 2015 / Civil Engineering		
Active registration number / state / expiration date		No. 0032456 / Louisiana / 09/30/2023		
Year registered	06/08/2015 Discipline	Engineering Intern		
Contract role(s) / brief description of responsibilities		Mr. Jacobs serves as a Survey Technician and will process field crew data and finalize deliverables.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/23 – 05/23	**H.012618 LA 347 Drainage Improvements:** Mr. Jacobs is the Survey Technician for this project. Topographic Survey for just over 2 miles of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
09/23 – 12/23	**H.015619.5 LA 106:** Mr. Jacobs is the Survey Technician for this project. Topographic Survey for just over 8 miles of roadway. Traditional means and methods were used to collect limited topographic data for this overlay and roadway rehabilitation project. Project was completed to LADOTD Location and Survey Standards and practices
05/23 – 08/23	**H.015056 - LA 685:** Mr. Jacobs is the Survey Technician for this project. Topographic Survey for just over 4,503 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
05/23 – 08/23	**H.015058 - LA 14 Business:** Mr. Jacobs is the Survey Technician for this project. Topographic Survey for just over 12,300 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
02/23 – 12/23	**H.012027.5 - I-20 UPPR**: Mr. Jacobs is the Survey Technician for this project. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.
08/22 – On-Going	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3**: Mr. Jacobs is working as a Survey Technician this Louisiana Watershed Initiative project. He has been responsible for processing field data and creating punch-lists for field crews. CD&C is a sub-consultant on this project.
01/22 – 11/22	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2:** Mr. Jacobs is working as a Survey Technician this Louisiana Watershed Initiative project. He has been responsible for processing field data and creating punch-lists for field crews. CD&C is a sub-consultant on this project.
01/15 – 05/15	**Albany Annex:** Worked on the boundary survey for extending the town limits of Albany, Louisiana. I went to the courthouse and did title research for the properties that were obtained for the annex. I set the new boundary lines for the new town limits. I also drew the map showing the boundary of the properties that were obtained.
06/15 – 06/19	**Pecue Lane:** Worked on Right of Way maps and the Traverse Control Sketch. For the Right of Way maps, I set where the monuments will be in the office. I also calculated the bearings and distances between each right of way monument. I also wrote the legal descriptions for the Right of Way and verified that it matches the maps. I also created the control sketch based off the traverse. All drawings were created up to DOTD Standards.

06/15 – 07/15	**Essen Lane Control:** Worked on Right of Way maps in the office and helped set monuments in the field. I set the points for all the right of way monuments in the office and then went to the field to assist the crews in staking out and setting the monuments 2021 Bellacosa Residential Subdivision - Generate Point file for the survey crew to stakeout the property corners for each lot within the subdivision.
04/21 – 05/21	**Jefferson and Corporate Interchange Survey:** Created the GPS control sketch that shows the traverse for the survey.
06/21	**Pollard Branch:** Wrote the legal descriptions for three different tracts. The legal descriptions reflected the overall boundary survey maps. Topographic Surveys
06/14 – 07/14	**I-12 to Bush:** Worked as a rodman. We cut cross sections every 100 feet for road improvements and did a topographic survey using total stations.

Firm employed by **Civil Design & Construction, Inc. (CD&C)**				
Name	Tracey Smith	Years of relevant experience with this employer	2	
Title	Utility Coordinator	Years of relevant experience with other employer(s)	24	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered	Discipline			
Contract role(s) / brief description of responsibilities * Dates not included as work was done at previous Employer		Mr. Smith has over 24 years' experience in underground utilities. Mr. Smith has worked in the gas field for 3 years and spent 19 years performing various underground utility locations and serving as a supervisor for a number of locate technicians.		

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 years of experience specified in the applicable MPR(s).
05/23 – 08/23	**H.015056 - LA 685:** Mr. Smith served as the SUE Field Chief for this project. Topographic Survey for just over 4,503 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
05/23 – 08/23	**H.015058 - LA 14 Business:** Mr. Smith served as the SUE Field Chief for this project. Topographic Survey for just over 12,300 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.
03/23 – On-Going	**MSY Campus Wide Sewer Location**: Mr. Smith serves as the SUE field chief for the project. CD&C is performing a combination of both a QL-B and QL-A for the Louis Armstrong Airport campus to locate its sanitary sewer lines. This project encompasses the entire campus. All sewer manholes and gravity lines as well as sewer forcemains are to be located. Verification of pipe size and material is also required. CD&C is providing all SUE appropriate reports and data for this project.
01/24 – 03/24	**RN Nuccio Rd SUE:** Mr. Smith served as the SUE Field Chief for the firm's SUE work on this bridge replacement project. CD&C, Inc. provided SUE utility locations with SUE QL- B utility designation. CD&C, Inc. provided all SUE reports and data.
04/24 – 05/24	**BRMA FAA Boring:** Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included the coordination of SUE QL-B utility information and boundary survey of over 4 acres. Survey crews collected data to incorporate for the final deliverable which included boundary plat, and SUE reports, data, and plans.
03/24 – On-Going	**MSY East Apron Expansion:** Mr. Smith serves as the SUE Field Chief for the firm's SUE work on this project. This project includes the coordination of SUE QL-B utility information and topographic survey for over 7 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
03/24 – 05/24	**MSY Employee Parking:** Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for approximately 0.5 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
02/24 – 05/24	**BRMA Radar Decomp:** Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 2 acres. CD&C's SUE crews marked underground utilities which were picked

	up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
12/23 – 05/24	**BRMA Taxiway F Reconstruction:** Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 25 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
09/22 – 01/23	**BRMA Northwest Aviation Development**: Mr. Smith served as the SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with standards set forth by City/Parish government for East Baton Rouge.
03/22 – 10/23	**H.011833.5 St. Mary Street Sidewalks; Scott, LA**: Mr. Smith served as the firms SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA**: Mr. Smith served as the SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
07/23 – On-Going	**College Drive (MoveBR):** Mr. Smith serves as the SUE Field Chief for the project. This project included full topography and utility coordination for approximately 20 acres. He worked in the field to coordinate the collection of all the utility information and location for survey crews to incorporate utility information to a QLD to QLB level accuracy. An official SUE submittal was not required for this project. The final submittal was following standards set forth by the City/Parish government for EBR.
10/23 – On-Going	**HMGP – FEMA Groom Road Brushy Bayou:** Mr. Smith serves as the SUE Field Chief for the project. This project included full SUE submittal for approximately 1 mile of roadway. He worked in the field to coordinate the collection of all the utility information and location for survey crews to collect data and incorporate it for the submittal of QLB.
05/23 – 06-23	**Burbank at Pelican Lakes:** Mr. Smith served as the SUE Field Chief on this intersection improvement project in Baton Rouge. Location of all subsurface utilities were provided to QLD.
01/23 – 07/23	**Pride Port Hudson Road:** Mr. Smith served as the SUE Field Chief for this project. Mr. Smith worked with the local utility companies. In instances where the utilities did not locate, Mr. Smith assisted in securing as-built/record drawings. Mr. Smith marked those assets so that a complete topography survey could be completed.

Firm employed by	Vectura Consulting Services, LLC			
Name	Sheelagh Brin Ferlito, PE, PTOE		Years of relevant experience with this employer	8
Title	Supervisor-Eng		Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization			B.S. / 1988 / Civil Engineer	
Active registration number / state / expiration date			PE. 0025383 / LA 09/30/2025	
Year registered	1993	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Traffic Signal Design, Stage 0, and Peer Reviews	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/21 - current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA)** Brin is the task leader for Vectura for the **Construction Engineering and Inspection of 24 traffic signals**. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. **All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin.** She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
07/19 – current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA)** Brin is the project manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on **design year volumes** that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by DOTD.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA)** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed **signal timing plans** for each phase of the construction to maintain progression along LA 30.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA** Brin developed a Pedestrian Crosswalk Study and **Traffic Signal Construction Plans** for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included **traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses**. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements. Brin assisted with **vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street**. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative.
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)** As the project engineer, Brin was in responsible charge for **data collection and design for three signalized intersections** as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost

	estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA)** Brin was the Project Resident Engineer on behalf of EBR for performing **CE&I services for the construction of 11 traffic signals**. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA)** Brin was the Project Resident Engineer for DOTD and EBR to perform **CE&I services for the construction of 21 traffic signals**. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA)** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included **traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout**. Design also included **traffic signal synchronization signal timing** and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.
03/05 – 11/05	**Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA)** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included **traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate**. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
02/03 – 01/04	**EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA)** Brin was the project engineer for the **design of 66 signalized intersections** on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

(Add rows as needed)

Firm employed by	Vectura Consulting Services, LLC			
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP		Years of relevant experience with this employer	8
Title	Supervisor-Eng		Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010	
Active registration number / state / expiration date			PE.0029901 / LA / 3/31/2026	
Year registered	Civil	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Data Collection, Warrant Analysis, Traffic Modeling, Intersection & Network Analysis, Stage 0 and Peer Review	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/19 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the **travel demand model** to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided **peer review** for the traffic studies for Ben Hur Road and Lee Drive.
06/23 - Current	**H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support** Laurence is a member of the team to develop new policies and legislation related to C/AV.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Laurence was the **project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection)** for proposed improvements College Drive. Since the I-10 interchange was included in the study, **approval from DOTD was required**. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
01/23 – 02/24	**H.011504 Alexandria ITS Phase 2** Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
10/21—03/22	**H.013256.5 I-10 ITS Scott to Lake Charles (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.

06/12-12/12	**Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana (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 DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Laurence was the lead traffic engineer for a **DOTD traffic study** for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, **collected 7-day, 24-hour counts** w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM **traffic simulation model** of the preferred alternative.
07/16 - 01/17	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users (Norfolk, VA)** At the request of the FHWA division office for Virginia, Laurence was asked to peer review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/04 - 09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** Laurence was the lead traffic engineer for a **Stage 0** traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC **TransCAD model** growth rates. Using HCS, Laurence **analyzed signalized and unsignalized intersections**, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS.
03/10 - 11/11	**S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA)** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the **Stage 0**, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).
01/07 – 08/07	**I-12 Ramp Metering Study, Baton Rouge, Louisiana (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 DOTD 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 DOTD, 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.
04/04 - 09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** Laurence was the lead traffic engineer for a **Stage 0** traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC **TransCAD model** growth rates. Using HCS, Laurence **analyzed signalized and unsignalized intersections**, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS.

Firm employed by	Vectura Consulting Services, LLC			
Name	Kristen Farrington, PE, PTOE, RSP1		Years of relevant experience with this employer	2
Title	Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2013 / Civil Engr.	
Active registration number / state / expiration date			PE.0042074 / LA / 3/31/2025	
Year registered	Civil	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer for signal and ITS design / inspection	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 - current	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Kristen a project engineer for a **traffic design study and traffic signal design of 19 signals** along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21 – 04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA)** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting **vehicular speed and volume data** at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the *FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations* were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
02/20 – 09/21	**MOVEBR College Drive Enhancement Project (Baton Rouge, LA)** Kristen assisted with the **data collection** task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
6/19 - 2/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA)** Kristen served as project manager for a **Stage 0** study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
6/19 - 2/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA)** Kristen served as project manager for a **Stage 0** study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
04/19 – 6/21	**H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA)** Kristen served as project engineer responsible for a **Stage 0** study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the **Stage 0** report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA)** Kristen was the task leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor,

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

Firm employed by	Ardaman & Associates, Inc.			
Name	**Megan Bourgeois, PE**		Years of relevant experience with this employer	18
Title	PROJECT ENGINEER / ASSISTANT BRANCH MANAGER		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2006 / Civil Engineering Traffic Control Supervisor Refresher / LA / 8-7-2024 DOTD Flagger / LA / 8-8-2024 Certified NHI Drilled Shaft Inspector ***Meets MPR 9.***	
Active registration number / state / expiration date			36725 / LA / 03-31-2026	
Year registered	2011	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**Project Manager**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	***Ms. Bourgeois** has more than 14 years of experience with shallow foundation design, embankment settlement analysis, pile and drilled shaft foundation analysis, LRFD design, slope stability (embankment and excavation), pipeline and pump station recommendations, geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has managed numerous geotechnical investigations and design evaluations, managed laboratory testing programs, while also serving as Ardaman's program manager for many LADOTD projects for bridges and roadways throughout Louisiana. Ms. Bourgeois also serves as the director of our geotechnical engineering laboratory in Baton Rouge. In this role, she supervises the laboratory manager, oversees testing, provides guidance to laboratory staff, and ensures appropriate protocol is followed and deadlines are met in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ & USACE.*
10/09 - Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Project Manager*. Ms. Bourgeois manages this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. She managed a highly technical team including academia, outside experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction for the determination of mineralogy, x-ray scanning of unextruded samples to identify existing shearing planes, stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures, and developed technically feasible solutions. She co-authored the geotechnical analysis and design report. Currently, she is managing a phase of the project that included upgrading the entire instrumentation communication system and will be monitoring this system continuously.
10/18- 06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA.** *Project Manager.* Managed and oversaw all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Ms. Bourgeois also managed laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, oversaw the field resistivity testing program, and developed the data report.

04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA.** *Project Engineer.* Leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA.** *Project Engineer.* Leads technical reviews pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Project Manager.* Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program, processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST): East Baton Rouge Parish, LA.** *Project Manager.* Managed all aspects of the geotechnical investigation in support of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, electrical resistivity imaging along the entire alignment, laboratory testing and the preparation of a geotechnical data report.
12/12- Ongoing	**SP NO. H.009266 / I-10 WIDENING LA 73 to LA 30: Ascension Parish, LA.** *Project Manager*. Managing all aspects of the project that include field investigations consisting of 13 deep soil borings and 26 shallow soil borings, laboratory testing, and engineering design in support of the widening of the East and Westbound lanes and elevated structures along I-10 between LA 73 and LA 30 spanning approximately 5 miles. Ms. Bourgeois performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, and pavement section recommendations; all completed according to DOTD standards.
09/20-Ongoing	**SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12: East Baton Rouge Parish, LA.** *Project Engineer / Laboratory Director.* Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well served as quality control and review of all acceptance verification sampling and testing during construction.
02/20-Ongoing	**SP NO. H004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA.** *Project Engineer/Laboratory Director.* Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well served as quality control and review of all acceptance verification sampling and testing during construction.

Firm employed by	Ardaman & Associates, Inc.			
Name	**Robert Jewell, PE**		Years of relevant experience with this employer	17
Title	PROJECT ENGINEER / BRANCH MANAGER		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering	
Active registration number / state / expiration date			38579 / LA / 09-30-2024 Traffic Control Supervisor / LA / 09-25-2024	
Year registered	2013	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**Project Engineer**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Jewell *serves as the manager of our Baton Rouge office and as project manager for various geotechnical engineering projects which include analyses such as pile and drilled shaft foundations, shallow foundations, static and dynamic pile testing, and slope stability. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Mr. Jewell has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation.*
10/18- 06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA.** *Project Engineer*. Helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Mr. Jewell also helped develop the soil boring logs and preparation of the data report.
10/18-01/19	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Project Manager.* Prepared the preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring.
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST): East Baton Rouge Parish, LA.** *Project Engineer.* Comanaged all aspects of the geotechnical investigation in support of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation will include 58 deep borings and 11 cone penetrometer (CPT) soundings, field resistivity testing, and associated laboratory testing and the preparation of a geotechnical data report.
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA.** *Project Manager.* Leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
09/20-Ongoing	**SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12: Baton Rouge Parish, LA.** *Project Engineer.* Helped oversee review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's.
02/20-Ongoing	**SP NO. H004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA.** *Project Engineer.* Helped oversee review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's.

04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA.** *Project Manager.* Leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Project Engineer.* Lead technical review of all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Mr. Jewell also assisted with review of the laboratory testing program, processing and analyzing of the ECPT and ER data. He also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
07/15-Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA.** *Project Manager.* Manages the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings. The design was for the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. He will be the co-principal for developing the Geotechnical Investigation and Design Report to be developed for this project. In addition, he will also oversee and coordinate the Phase 2 field and laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings.
04/14-05/23	**SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241 (LA 36-LA435): St. Tammany Parish, LA.** *Project Manager*. Oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. Assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Mr. Jewell oversaw the construction phase which included dynamic testing and settlement monitoring.
10/14-12/16	**SP NO. H.010601.5 / I-10 WIDENING (E. JUNCTION I-49 TO LA 328): St. Martin Parish, LA.** *Project Engineer*. Oversaw and coordinated the geotechnical investigation which included 44 deep borings and 25 cone penetrometer (CPT) soundings, associated laboratory testing, and preparation of a geotechnical data report for the widening of the nine existing structures along I-10 between I-49 to LA 328 spanning approximately 7 miles.
07/09-08/11	**SP NO. 700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA.** *Assistant Project Engineer.* Served in the field as on-site geotechnical engineer during construction for this project in southeast Louisiana. He conducted dynamic monitoring using the Pile Driving Analyzer, performed CAPWAP analyses, reviewed drive logs, and supervised field technicians.

Firm employed by	Ardaman & Associates, Inc.			
Name	**Robert Rousset, PE**		Years of relevant experience with this employer	18
Title	PROJECT ENGINEER / VICE PRESIDENT, REGIONAL MANAGER		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering	
Active registration number / state / expiration date			38637 / LA / 09-30-2024	
Year registered	2014	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**Project Engineer**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Rousset *serves as the manager of Ardaman's New Orleans office and as project manager for various geotechnical engineering projects as well as contract administrator of several major contracts. He has managed projects that have included pile and drilled shaft foundations, shallow foundations, static and dynamic pile testing, and slope stability. Mr. Rousset has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation.*
07/14-05/18	**SP NO. H.004113 / I-12 TO BUSH SEGMENT 3, LA HIGHWAY 3241 (LA 435 TO LA 40 / LA 41): St. Tammany Parish, LA**. *Project Manager.* Oversaw and coordinated the geotechnical investigation which included 26 soil borings, sampling, and laboratory testing along the alignment that included one bridge, LA 435 over Talisheek Creek. Oversaw geotechnical analyses and preparation of design recommendation report which included pile supported approach slabs and pile foundations for the bridge structures and shallow foundation design for the culverts.
05/12-03/13	**SP NO. H.002260.5 / GOOSE BAYOU BRIDGE ROUTE LA 45: Lafitte, LA**. *Assistant Project Engineer*. Managed geotechnical investigation for the bridge that included drilling and laboratory testing of 2 deep soil borings and 4 CPT soundings performed with barge-mounted drilling equipment under difficult access conditions. Assisted with providing final soil boring logs and CPT sounding logs in LADOTD format.
07/09-08/11	**SP NO. 700-29-0112 / LA 1 – PHASE 1: Lafourche Parish, LA**. *Assistant Project Engineer*. Served in the field as onsite engineer for Phase 1A of this project in southeast Louisiana. The completed project consisted of 17 miles of elevated roadway with low-level bridges and medium-level bridges, two elevated interchanges, and two fixed high-level bridges over navigable waterways. Conducted dynamic monitoring using PDA, performing CAPWAP analyses, reviewed drive logs, and supervised field technicians.
03/11-02/12	**SP NO. H.003886.5 / I-49 SEGMENT J: Caddo Parish, LA**. *Assistant Project Engineer*. Mr. Rousset planned the geotechnical investigation program, coordinated field activities, assigned lab testing, reviewed laboratory test results, classified soil types based on laboratory tests, and compiled soil boring logs in the LA DOTD format.
08/09-12/09	**CENTRAL THRUWAY: East Baton Rouge Parish, LA**. *Assistant Project Engineer*. Performed PDA testing on pre-stressed, pre-cast concrete piles for various bents.

03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA415 TO HOWARD ST): East Baton Rouge Parish, LA**. *Project Engineer*. Ardaman's scope of work for this project consisted of evaluating laboratory test results, including consolidation testing, and producing soil boring logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, electrical resistivity geophysical surveys, associated laboratory testing and the preparation of a geotechnical data report. Mr. Rousset assisted with the fieldwork portion of this project.
2020 - Ongoing	**SP NOs. (Multiple) / RURAL BRIDGES REPLACEMENT INITIATIVE: Avoyelles and Webster Parishes, LA**. *Project Engineer*. This project consisted of the replacement of multiple small rural bridges throughout Central and North Louisiana. He oversaw the field investigation, lab testing, and engineering analyses for the project. Engineering analyses consisted of axial pile capacities, pile drivability, settlement, and slope stability analyses.
08/16-07/19	**CS-65 / CALCASIEU SHIP CHANNEL SALINITY CONTROL MEASURES (CS-65) PHASE 1A PROJECT: Cameron & Calcasieu Parish, LA**. *Project Manager*. The project aims to limit saltwater intrusion and reduce land loss across various bayous, marshes, and lakes within the vicinity of the Calcasieu Ship Channel (CSC), located across Cameron and Calcasieu Parish. Stretching across 20 miles, the project consists of various sill structures, erosion control measures, and channelization structures. Mr. Rousset served as project manager for this project where he coordinated all field investigation(s), laboratory testing, and geotechnical engineering analyses.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA**. *Project Engineer*. Assisted on coordination and oversight of aspects of this project pertaining to marine based field investigation. The fieldwork consisted of a series of soil borings and CPTs with challenging access requirements. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass.
09/18-10/22	**SP NO. H.001344 / US 190: LA 437 TO US 190 BUS (PH 1): St. Tammany Parish, LA**. *Project Manager*. Mr. Rousset is managed this project which included the widening of US 190 to a four-lane boulevard between US 437 and US 190. A new bridge over the Bogue Falaya River will be constructed adjacent to, and east of, the existing bridge. The existing bridge will remain and function as two lanes of southbound traffic. The new bridge will be 54-feet-wide with three 12-foot travel lanes for 2 northbound traffic with an eight-foot shoulder to the inside and a 10-foot shoulder to the outside. Mr. Rousset managed the field investigation and laboratory testing.
07/16-10/21	**SP NO. H.011152.5 / I-12 WIDENING (US 190 TO LA 59): St. Tammany Parish, LA.** *Project Manager*. Mr. Rousset managed this project which included the widening of Interstate 12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Engineering analyses for a retaining wall for one of the bridge abutments was conducted.
10/18-01/19	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Project Engineer*. Assisted in planning and coordination of installation of automated settlement monitoring instrumentation. Also assisted in preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana.

Firm employed by	APS Engineering and Testing, LLC		
Name	Sergio Aviles, PE, M.ASCE	Years of relevant experience with this employer	12
Title	President	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization		BS Civil Engineering/2001/Geotechnical	
Active registration number / state / expiration date		0033571/ LA / 03-31-2026	
Year registered	2007 Discipline	Civil	
Contract role(s) / brief description of responsibilities		Project Manager/Design Guidance/Field Crew and Lab Management	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Aviles has over 20 years of experience in geotechnical and civil engineering. He has significant experience working at LADOTD performing slope stability analysis, embankment settlement calculations, mechanically stabilized earthen wall design, sheet pile design and pile testing. After founding A P S Engineering and Testing eleven years ago, Mr. Aviles continued his work throughout Louisiana working with both government and private entities. Mr. Aviles also has extensive experience in the design and construction supervision of roadway projects in the region. Mr. Aviles is proficient in the use of AutoCAD Civil 3D which he utilizes in the design of projects.
11/19-06/22	**Project No. H. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19-** A P S was selected with the winning team for the design of the diversion CMAR project. A P S performed the Geotechnical Design for the project. Mr. Aviles was the Project Manager for the Project Design team.
09/19-05/23	**Project No. H.004100: I-10 Widening LA 415 to Essen LN-** A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the waterborings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Aviles was the Project Manager to the Geotechnical Investigations
11/19-12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85-** A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Aviles was the Project Manager for the Project Design team.
03/19-05/19	**Project No. H.001344: US 190 over Bogue Falaya River-** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Aviles was the Project Manager for the Project Design Team.
08/6-10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave**- A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Aviles was the Project Manager to the Geotechnical Investigations

03/21-11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.)-** Scope included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. Mr. Aviles was the project manager to the Geotechnical Investigations
08/21-08/22	**Ward Creek at Seigan Ln-** Scope included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. A P S drilled two (2) deep borings and tested recovered soil for strength and engineering characteristics. Mr. Aviles Mr. Aviles was the project manager to the Geotechnical Investigations.
09/21-05/24	**Port Hudson-Pride Road (LA-964 – LA-19)-** Scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for geotechnical recommendations. Mr. Aviles was the manager to geotechnical investigation.
03/01 – 05/05	The following list consists of projects that Mr. Aviles did the design or assisted on the design while at LADOTD. These projects include pile design, slope stability, settlement analysis, and construction services (PDA, CAPWAP, and WEAP). **ONSYSTEM PROJECT LIST**: Mr. Aviles served as the staff geotechnical engineer while at the Pavement and Geotechnical Section for the following projects below. Projects include Embank Design, Pile Design, Drilled Shaft Design, MSE Wall Design, and Construction Supervision. Major project costs estimated over one million dollars: 015-04-0037 LA524-LA123 Route US165, 015-05-0035 LaSalle, 015-07-0044 (Route 165 Cadwell, 276-03-0016 Tangipahoa River Bridge, 3132 01-0029, 362-01-0009 Rat Bois, 452-01-0039 I-55 CrossOvers, 742-07- 0098 Susek Drive, Bayou Perrie and Sand Beach Bayou 103-01-0025, Broadway Ave.700-40-0127, Cameron Route La. 27 193-02-0042, Causeway Boulevard interchange Route I-10 450-15-0098,Clayton-Greenville 026-03-0025, Crescent City Connection 283-08-0143(46), Cross Bayou Bridge 090-01-0020, Flannery at Florida 742-17-0008.Innerloop 427

Firm employed by	APS Engineering and Testing, LLC				
Name	Sairam (Sai) Eddanaudi, M.E., P.E.		Years of relevant experience with this employer	12	
Title	Chief Engineer		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization			ME/Civil Engineering BE/Civil Engineering		
Active registration number / state / expiration date			0035129/ LA / 03-31-2026		
Year registered	2009	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Design Engineer/Laboratory QA Manager		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Sairam (Sai) Eddanapudi is the Senior Geotechnical Engineer for A P S. He has over 20 years of experience in the Geotechnical and Civil Engineering field. Mr. Sai received a Masters of Science in Civil Engineering from Lamar University and a Bachelors in Technology in Civil Engineering from India (August, 1999). Mr. Sai's professional experience consists of the design of roadways, bridges, levees and T-walls as well as the design of shallow and deep foundations. His field experience includes QC inspection of auger cast piles, drill shafts, soil and concrete. Mr. Sai has experience with the following software: Slope/w (2004 and 2007 versions) for slope stability analyses, Seep/w for seepage analysis, Driven 1.2 (for driven piles), MicroStation V8, CWALSHT and FS004 for slope stability analyses, Swell Potential (for expansive soils), Drilled Shaft Design software, Auger cast pile design Analysis, AASHTO pavement, Slope analysis, and Differential Settlement Analysis.
11/19-06/22	**Project No. H. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19-** A P S was selected with the winning team for the design of the diversion CMAR project. A P S performed the Geotechnical Design for the project. Mr. Sai was the Senior Design Engineer for the Project Design team.
09/19-05/23	**Project No. H.004100: I-10 Widening LA 415 to Essen LN-** A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the waterborings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Sai was the project QA to the Geotechnical Investigations.
11/19-12/23	**Project No. H.001344: US 190 over Bogue Falaya River-** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Sai was Senior Design Engineer for the Project Design team.
03/19-05/19	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85-** A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Sai was Chief Engineer for the Project Design team.
08/6-10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave-** A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Sai was QA to the Geotechnical Investigations.

03/21-11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.)-** Scope included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. Mr. Sai was the project QA to the Geotechnical Investigations.
08/21-08/22	Ward Creek at Seigan Ln- Scope included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. A P S drilled two (2) deep borings and tested recovered soil for strength and engineering characteristics. Mr. Sai was the Supervising Engineer to the Geotechnical Investigation.
09/21-05/24	**Port Hudson-Pride Road (LA-964 – LA-19)-** Scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for geotechnical recommendations. Mr. Sai was the Chief Engineer to Geotechnical Investigation.

Firm employed by	T2 UES, Inc. d/b/a T2 Utility Engineers (T2ue)				
Name	Suzanne McCain, PE, LSI			Years of relevant experience with this employer	5
Title	Branch Manager			Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization			BS / Civil Engineering / 1987 / Louisiana State University		
Active registration number / state / expiration date			PE: 25169 / LA / 9/30/2025 | LSI: 0000466 / LA / 9/30/2025		
Year registered	1993	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Project Management/Utility Coordination		

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).
	ATSSA Flagger (exp. 11/18/2026) ATSSA Traffic Control Technician (exp. 12/07/2026) ATSSA Traffic Control Supervisor (exp. 12/07/2026) Mrs. McCain has extensive experience working with DOTD on a variety of roadway and enhancement projects. Using this foundation, Mrs. McCain provides T2ue clients with insight and valuable feedback on projects. Before joining T2ue, Mrs. McCain was a Project Manager for multiple major design firms and worked for DOTD for 13 years. Mrs. McCain was responsible for the preparation and quality control of roadway plans. Currently, for T2ue, Mrs. McCain serves as a Project Manager on numerous projects for public and private clients involving the surveying of underground utilities and coordination with utility companies and owners to manage the relocation of utilities in conflict with the proposed design. Suzanne and necessary team members will be responsible for preparing scope and budgets for task orders.
07/2023 - Ongoing	INFRA-I010 (353) – Mobile River Bridge, Mobile AL. Project Manager. The Mobile River Bridge project is a major transportation initiative that aims to improve the traffic flow and safety on I-10 in Alabama. T2 Utility Engineers is providing designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services. Mrs. McCain supervises the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
01/2020 - Ongoing	H.004791: Belle Chasse Bridge and Tunnel Replacement, Plaquemines Parish, LA. Project Manager. T2 Utility Engineers is providing utility coordination services during the design and construction of the Belle Chasse Bridge and Tunnel Replacement project. Mrs. McCain, as Project Manager for T2 Utility Engineers, is in close coordination with the contractor and utility providers to monitor the conflict matrix as the design progresses. T2 Utility Engineers has prepared a KMZ file to review utility locations in respect to edges of roadway, proposed drainage structures and temporary pavement widening for construction operations. Mrs. McCain along with design and construction personnel use this KMZ file as a reference when in the field and to coordinate with existing records held by the utility providers. Utility providers are currently preparing engineering drawings for service relocations. Upon review by the Design Build team, utility agreements will be entered into

	and construction will commence. T2 Utility Engineers will closely monitor the schedule of each utility provider to insure that all services are relocated in time for project construction to begin.
10/2018 - Ongoing	H.004273: I-49 Lafayette Connector, Lafayette Parish, LA. Engineer in Charge. T2 Utility Engineers has provided records research (CI/ASCE 38-22 Quality Level D), designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services throughout the project corridor. Mrs. McCain is supervising the compilation of the updated QLB mapping and the continual monitoring of utility permits being granted in the project corridor.
10/2018 – 8/2019	H.004100: I-10: LA 415 to Essen Lane to I-10 and I-12, West and East Baton Rouge Parishes, LA. Engineer in Charge. T2 Utility Engineers provided records research (Quality Level D) and designating (Quality Level B) SUE throughout the 10- mile project corridor. The team developed a comprehensive map based on record collection and discussions with utility representatives. The design team use the preliminary utility map for reference to determine larger systems to avoid during preliminary design. While the Quality Level D map was being completed, T2 Utility Engineers began its field investigation of Quality Level B designating. This immense task required major coordination efforts to schedule crews for T2 Utility Engineers and the survey crews on the team to ensure utility markings were collected timely and correctly. Mrs. McCain supervised the collection of utility owner record information, and other project research used in the development of the comprehensive map, used by the design team to avoid critical utilities in early design. She also supervised the SUE field efforts for utility designation. She reviewed the plan sheets of utility data collection and accurate depiction at Phase changes, as well as prepared/QA/QC project deliverables.
11/2020 – 01/2021	H.013725.5: Gause Boulevard Drainage Investigation, St. Tammany Parish, LA. Project Manager. Due to pavement failures along the route that may have resulted in failures in the drainage system, T2 Utility Engineers was hired to provide CCTV services to analyze the sub-surface drainage system and to provide an overall rating of the system using the PACP methodology. In addition, T2 Utility Engineers provided designating (CI/ASCE 38-22 Quality Level B) subsurface utility engineering services in eighteen locations to map the underground utilities within the project limits. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
10/2020 – 12/2020	H.002798.6: Bayou Teche Bridge at Oaklawn, St. Mary Parish, LA. Project Manager. During construction of the Oak Lawn Bridge over Bayou Teche, a 2" steel line was exposed. T2 Utility Engineers provided designating (CI/ASCE 38-22 Quality Level B) and (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services to investigate the line location within the project limits and provide an elevation of the line in the construction limits. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
06/2022 – 11/2022	RAED-068-000-154: West Alabama Highway Corridor, Thomasville – Tuscaloosa, AL. Engineer in Charge. T2 Utility Engineers provided records research (CI/ASCE 38-02 Quality Level D), designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering services throughout the project corridor. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.

Firm employed by	T2 UES, Inc. d/b/a T2 Utility Engineers (T2ue)			
Name	Dorrie Dorsey		Years of relevant experience with this employer	9
Title	Assistant Project Manager		Years of relevant experience with other employer(s)	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities			Project Management/Records Research	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/2021 – 06/2026	**GA095-018-MC - Statewide Subsurface Utility Engineering Master Contract, Georgia Department of Transportation, Statewide, GA.** Senior Project Coordinator. T2 Utility Engineers is currently under contract to provide subsurface utility engineering services statewide on as task order basis for GDOT. Services on task assigned under this contract include, designating (CI/ASCE 38-02 Quality Level B) locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering, utility design conflict analysis, training and data management, professional utility coordination and compliance with all utility protection center of Georgia State Law requirements for notification prior to excavation.
11/2021 – 05/2023	**GA014-026-00 - Cobb Parkway at Windy Hill Grade Separation Scoping Study, Cobb County Department of Transportation, Cobb County, GA.** Assistant Project Manager. T2 Utility Engineers was under contract to provide Quality Level D subsurface utility engineering services. Services include identifying existing underground utilities based upon record research as well as identifying existing above ground utilities based on site inspection/aerial imagery and compiling the identified existing utilities along with GIS data for Cobb County water and sewer utilities to produce a concept level UTLE file.
08/2015 – 01/2022	**GA123-001-00 - Johnson Ferry at Roswell Road (Mt. Vernon Highway), Jacobs Engineering, Inc., City of Sandy Springs, Sandy Springs, GA.** Utility Coordinator. T2 Utility Engineers provided the subsurface utility engineering to record and map existing utilities for 2.5 miles of city streets. After the SUE data was thoroughly reviewed, we compiled the individual proposed utility relocation with existing-to-remain facilities to present a conflict analysis for resolution. More than 10 utility firms were coordinated for this widening and realignment project.
07/2021 - Ongoing	**GA015-008-01 - Roswell Road Transit Access, Kimley-Horn and Associates, Inc., City of Sandy Springs, Sandy Springs, GA.** Utility Coordinator. T2 Utility Engineers provided the subsurface utility engineering to record and map existing utilities for 2.6 miles of city streets. Upon a thorough review of the SUE date, we began compiling the individual proposed utility relocation with existing-to-remain facilities to present a conflict analysis for resolution. We are currently coordinating with more than 20 utility firms for this roadway improvement project.

Firm employed by Garver LLC					
Name	Danny R. Dennis			Years of relevant experience with this employer	1
Title	P3 O&M Advisor			Years of relevant experience with other employer(s)	28
Degree(s) / Years / Specialization			BSCE Civil Engineering/1995/Construction & Maintenance		
Active registration number / state / expiration date			0402037076/Virginia/June 2026		
Year registered	2002	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Provide O&M cost estimating services		
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).				
01/2013-current	Provided O&M cost estimating services on numerous P3 projects across the United States and Canada, including GDOT's P3 MMIP program, Colorado's I-70 project, Maryland Managed Lanes, PennDOT's Major Bridge Improvement Program				

Firm employed by Garver LLC					
Name	Dan Harket			Years of relevant experience with this employer	1
Title	P3 O&M Advisor			Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			BA Business/1993/Public Administration		
Active registration number / state / expiration date			n/a		
Year registered	n/a	Discipline	n/a		
Contract role(s) / brief description of responsibilities			Provide O&M cost estimating services		
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).				
01/2013-current	Provided O&M cost estimating services on numerous P3 projects across the United States, Canada, and the UK including Maryland Managed Lanes, PennDOT's Major Bridge Improvement Program and various VDOT outsourced maintenance. Provided program management of a 10-mile privately owned and operated toll lanes system in Virginia.				

17. Firm Experience:

Firm name	WSP USA Inc.	Past Performance Evaluation Discipline(s)*	**Road, Bridge, Traffic, OV, Data Collection, Planning, ROW; Other: Environmental Engineering
Project name	Advisory Services for the Procurement of Alternative Delivery Projects (Calcasieu Bridge Task Order)	Firm responsibility (prime or sub?)	Prime
Project number	H.003931.5	Owner's name	
Project location	Calcasieu Parish, LA	Owner's Project Manager	Peggy Jo Paine
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802; PH: 225.379.1065; E: Peggy.paine@la.gov		
Services commenced by this firm (mm/yy)	02/21	Total consultant contract cost ($1,000's)	$6,708k
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$5,997k

This significant Design-Build-Operate-Maintain (DBFOM) Toll Revenue Risk Project replaces the 70-year-old Calcasieu River Bridge, increases the capacity of I-10 through the Lake Charles region, and relieves a national freight bottleneck. The Louisiana Department of Transportation & Development (LADOTD) selected WSP as the Technical Advisor to work side-by-side with LADOTD in its management of the P3 procurement and upcoming negotiation process. WSP is also providing Level 2 Traffic and Revenue (T&R) Analysis forecasts in support of the P3 procurement process.

WSP served as Technical Advisor leading development of the technical provisions and providing commercial advisory for development of other procurement documents including the Instructions to Proposers and Contract Documents. To develop the technical provisions, WSP hosted frequent workshops with the multitude of relevant technical disciplines to prepare the documents and define the performance-based and prescriptive technical criteria. Furthermore, WSP is supporting the questions and answers (Q&A) process as well as the one-on-one meetings with the shortlisted proposers providing support to LADOTD in review of Alternative Technical Concepts and other avenues for potential contractor innovation helping to refine the RFP documents.

WSP is also completed a Level 2 Traffic and Revenue Analysis for LADOTD. WSP customized the Imperial Calcasieu Regional Planning & Development Commission's travel demand model by incorporating toll pricing and updated demographic requirements to provide a realistic forecast of the facility's future toll revenue generation capacity. Prior to the RFP process, WSP supported the development of the Request for Qualifications (RFQ) and performed a comprehensive technical review of the submitted Statements of Qualifications (SOQ) assisting the LADOTD with its shortlisting process.

Services Performed:

- Traffic and Revenue Analysis - Level 2
- Developing performance specifications, technical provisions, and design criteria
- Providing technical services for evaluation of SOQs and proposals
- Technical support for 1-on-1 meetings and evaluation of ATCs
- Toll Policy and system specifications
- Federal Major Projects and Grant support

Key Staff: Sallye Perrin, Deborah Brown, Max Nassar, Carlos Campo, Fanny Padron, Paul Lutkevich, Mark Pearson, Andres Giraldo-Romero, Mark Polston

Firm name	WSP USA Inc.	Past Performance Evaluation Discipline(s)*	**Road, Bridge, Traffic, CE&I/OV, Geotech, Environmental, Data Collection, ITS
Project name	I-75 Modernization Project Owner's Representative Consultant	Firm responsibility (prime or sub?)	Prime
Project number	30900448	Owner's name	Michigan DOT
Project location	Oakland County, MI	Owner's Project Manager	Mark Dubay
Owner's address, phone, email	Michigan Department of Transportation, 18101 W. Nine Mile Rd., Southfield, MI 48075; PH: 517-331-5648, E: dubaym@michigan.gov		
Services commenced by this firm (mm/yy)	04/17	Total consultant contract cost ($1,000's)	$45k
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$23k

MDOT selected WSP to serve as the Owner's Rrepresentative Consultant (ORC) for services supporting the I-75 Modernization Project. This ORC assists and supports MDOT in developing and administering the project planning through procurement and delivery, as planned in the SEMCOG long-range plan.

The I-75 modernization project encompasses approximately 18 miles of freeway from M-102 to south of M-59 in Oakland County. The freeway has a current daily traffic volume ranging from 103,000 to 174,000 vehicles per day. The freeway was originally built in the 1960s but has not received comprehensive corridor improvements since that time. The corridor was originally slated to be reconstructed in eight design-bid-build packages with construction being completed in 2032.

WSP worked with MDOT to develop a procurement plan to expedite the delivery of corridor improvements using alternative delivery approaches that cut over 10 years off the construction schedule.

Using value for money studies and risk assessments, WSP's recommended procurement approach resulted in dividing the corridor into three segments, with two segments delivered by design/build (Segments 1 and 2) and the third delivered as an availability payment P3 (Segment 3). Sallye Perrin led the WSP's work evaluating Segment 3's viability as a P3 and led the development technical specifications, coordinated with legal and financial advisors during the procurement.phase.

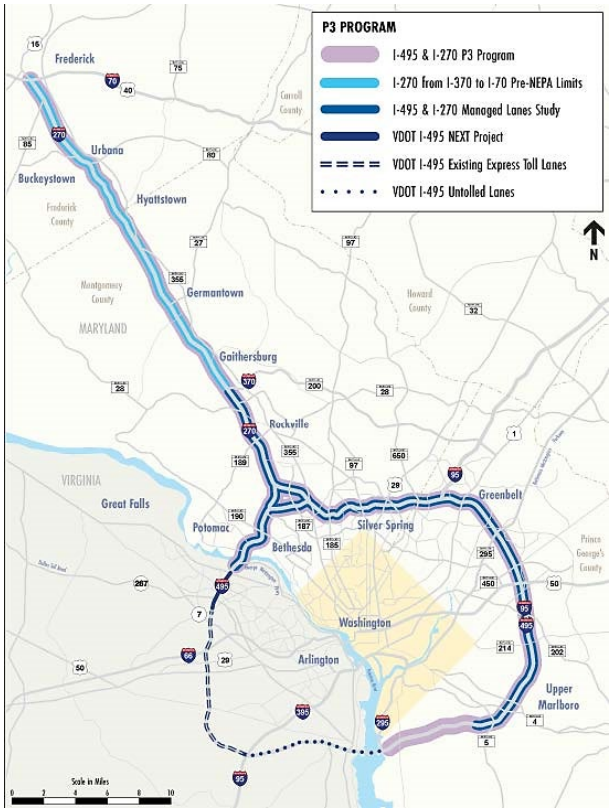
During the design and construction phase for Segment 3 P3, WSP has provided design assistance and review of design submittals, construction services managing and reviewing design-builder submittals and construction oversight. This includes review of design plans, reports, construction submittals, specifications, construction schedules, and many other items required by the contracts. WSP also provided operations and maintenance performance oversight, stakeholder coordination and public education of HOV usage, support services for financial, budget and cost documentation requirements, and participation in meetings. Sallye Perrin and Kyle Young supported the construction oversight and submittal review during the design and construction phase. Sallye also supported the oversight for operations and maintenance performance and is currently supporting reviews of technical submittals related to the transition to the operations and maintenance phase.

Key Staff: Sallye Perrin, Matt Oumedian, Jeff Chenault

Firm name	WSP USA Inc.	Past Performance Evaluation Discipline(s)*	**Traffic; Road
Project name	Maryland I-495 & I-270 P3 Program	Firm responsibility (prime or sub?)	Sub
Project number	BCS 2022-09A	Owner's name	Maryland Dept. of Transportation (MDOT), State Highway Administration (SHA)
Project location	Baltimore, MD	Owner's Project Manager	Jeff T. Holden, PE
Owner's address, phone, email	707 N. Calvert Street, Mail Stop P-601, Baltimore, MD 21202; PH: 410-637-3321; E: jfolden1@mdot.maryland.gov		
Services commenced by this firm (mm/yy)	12/18	Total consultant contract cost ($1,000's)	$90k
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$13k

The MDOT announced the Traffic Relief Plan to reduce traffic congestion, increase economic development, but most importantly, enhance safety and return quality of life to Maryland commuters. The largest initiative in the Traffic Relief Plan will evaluate improvements in the I-495 and I-270 corridors, which will consider transformative solutions to address congestion along these highways in Montgomery, Prince George's, and Frederick Counties.

This program is a historic effort to reduce congestion for millions of Maryland drivers by seeking input from the private sector to design, build, finance, operate, and maintain (DBFOM) improvements on both I-495 and I-270. Improvements will be focused on transforming these overloaded interstates to allow people to reach their destinations faster and remove overflow traffic from the local roads. WSP has played an integral role in the I-495 & I-270 P3 Program, assisting MDOT with technical services, risk analysis, facility life-cycle and operations and maintenance (O&M) strategies, procurement and contract support (including support for development of the Request for Qualifications [RFQ], performance specifications, and technical provisions), and P3 program development.



Services performed:

- Developing scope, requirements, descriptions, and layouts
- Developing performance specifications, technical provisions, and design criteria
- Drafting and preparing procurement documents (RFQ, RFP)
- Preparing technical and financial services for evaluating SOQs and proposals
- Preparing, checking, validating, and updating project cost estimates
- Facilitating project risk workshops and strategy sessions
- Assisting with public communication and outreach

Key Staff: Sallye Perrin, Deborah Brown, Andrew Woodhouse, Matt Woodhouse, Dan Dennis (Garver)

Firm name	WSP USA Inc.	Past Performance Evaluation Discipline(s)*	**Bridge; Other: Procurement Strategies, O&M, Alternative Delivery Procurement Advisory,
Project name	Pathways Major Bridges P3 Initiative Program Management (MBP3)	Firm responsibility (prime or sub?)	Prime
Project number	n/a	Owner's name	PennDOT
Project location	Pennsylvania	Owner's Project Manager	Mike Bonini
Owner's address, phone, email	1101 South Front Street Harrisburg, PA 17104; PH: 717-772-4664; E: mbonini@pa.gov		
Services commenced by this firm (mm/yy)	06/20	Total consultant contract cost ($1,000's)	$30k
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)	$12k

WSP was the Program Manager for the development and implementation of the PennDOT Pathways Major Bridges P3 Initiative, which will deliver the rehabilitation or reconstruction of nine (9) interstate bridges through Availability Payment Progressive P3 agreements. Initially developed as a program that would use toll revenues to fund the projects, the program subsequently eliminated tolling and is proceeding with traditional funding streams. As part of this effort, WSP provided program management services, policy development, toll system coordination, P3 Procurement support and engineering coordination and design services.

As part of the program management services, WSP has managed schedules for multiple work streams across multiple firms for multiple bridge projects to meet PennDOT's delivery schedule. Additionally, WSP supported the development of the Program through policy advisory to PennDOT. This policy support has ranged from high-level program structure to detailed toll and revenue policies. WSP also coordinated with PennDOT's toll system service provider, the Pennsylvania Turnpike Commission to develop a Concept of Operations, Requirements Document and Interagency Agreement that governs and specifies the interaction between the parties.

WSP led the procurement of a Development Entity to design, build, finance and maintain the bridges through a Progressive P3 Agreement. WSP managed the development of procurement documents (RFI, RFQ and RFP), industry outreach and executive briefings while coordinating with legal and commercial advisors to PennDOT. As part of the development of procurement documents, WSP created technical provisions for the project, which stipulate asset conditions and performance over the agreement term. WSP also completed an initial, and updated value-for-money (VfM) analysis for the project as the project continued through development and contract documents were negotiated.

WSP guided PennDOT through the procurement process helping them achieve an execution of a Pre-Development Agreement with their private partner, Bridging Pennsylvania Partners. We also facilitated coordination with the Federal Highway Administration both in the district and national offices to ensure compliance with all applicable regulations and to seek financing support from USDOT's Build America Bureau for both Private Activity Bonds (PABs) and the Transportation Infrastructure Finance and Innovation Act (TIFIA) program.

*"The WSP team took the time to develop alternative delivery strategies, and worked with our department to ensure that we were using the most effective P3 tool possible. Once we settled on our delivery path, WSP then took the lead in developing and ensuring that our team stuck to an aggressive procurement schedule. In addition, the WSP team led a rigorous effort on behalf of PennDOT to develop the appropriate contract documents, including detailed Technical Provisions. When you get right to the matter at hand, WSP's work was outstanding, and PennDOT would not have been able to execute a PDA within the timeframe executed (16 months) without WSP's **expert management**, and **knowledgeable, dedicated** staff."*

- Mike Bonini, Director of the PennDOT P3 Office

Services Performed:

- Program Management and Delivery Strategy
- Value for Money Analysis
- Developing performance specifications, technical provisions, and design criteria
- Drafting and preparing pre-procurement and procurement documents (RFI/Industry presentation, RFQ, RFP)
- Providing technical and financial services for evaluation of SOQs and proposals
- Providing technical support for 1-on-1 meetings and evaluation of ATCs
- Application support for TIFIA and PABs as well as coordination support with the Build America Bureau

Key Staff: Sallye Perrin, Deborah Brown, Andres Giraldo Romero, Matt Woodhouse, Ivan Garcia, Kristof VanWinden

Firm name	WSP USA Inc.	Past Performance Evaluation Discipline(s)*	**Traffic, Planning, Data Collection, Other: Procurement & Project Delivery
Project name	Gateway Development Commission, Hudson Tunnel Project Procurement Support	Firm responsibility (prime or sub?)	Prime
Project number	n/a	Owner's name	Gateway Development Commission
Project location	New Jersey & New York	Owner's Project Manager	Anthony Gardner
Owner's address, phone, email	120 Broadway, 10th Floor. New York, NY 10271; PH: 646.960.1595; E: agardner@gatewayprogram.org		
Services commenced by this firm (mm/yy)	05/23	Total consultant contract cost ($1,000's)	$256,951
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$94,830

As part of the Gateway Trans-Hudson Partnership (GTHP) consortium, WSP has been providing procurement and project delivery support to the Gateway Development Commission (GDC) for various packages of the Hudson Tunnel Project. Led by the Gateway Development Commission, a public authority established by the States of New York and New Jersey, the Hudson Tunnel Project is a component of the overall Gateway Program and involves the construction of two parallel rail tunnels, with a single track contained within each tunnel, from New Jersey to Manhattan.

Starting in 2023, WSP supported GDC's development of strategies for phasing multiple, overlapping procurements over an expedited period. This program includes a combination of Design-Bid-Build (DBB) and Design-Build (DB) delivery methods, depending on the specific characteristics of each package. During the period 2023 – 2026, the completion of seven separate procurements for large-scale components of the overall Hudson Tunnel Project program is anticipated. For each of the procurements, WSP is providing the following services:

- Support and coordination with GDC and various project stakeholders on a broad range of procurement management and strategy tasks including:
  - Business and commercial strategy
  - Procurement Portal Management
  - Coordination of Proposer's questions and GDC answers among technical, procurement, and commercial teams
  - Schedule management
- Manage draft and final RFP development processes, including drafting of key procurement documents, facilitating and drafting responses to requests for information received from shortlisted proposers; developing addenda to the RFP; coordinating one-on-one meetings with shortlisted proposers; and further development and coordination of key technical elements.
  - Facilitated communications with shortlisted proposers via the procurement portal.
  - Coordination between legal, technical, and procurement workstreams and deliverables to ensure schedule adherence.
  - Developed and managed evaluation processes for both qualification and proposal evaluation phases of each procurement.

Key Staff: Deborah Brown, Andres Giraldo-Romero, Ivan Garcia, Kristof VanWinden

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Bridge, Traffic
Project name	**I-10 CMAR Structural Design and Traffic Support**	Firm responsibility (prime or sub?)	Subconsultant
Project number	H.004100	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Baton Rouge, Louisiana	Owner's Project Manager	Nicholas Olivier
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, Louisiana 70804-9245, 225 379 1133, Nicholas.Oliver@la.gov		
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost ($1,000's)	$20,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$25,00

Firm's Role: Bridge and structural design, permanent signing design, transportation management plan (TMP), interchange modification reports (IMRs).

Firm Members Involved: Osama Shahawy, Akhil Chauhan, Kester Hollier, Ari Deitch

As part of the COREX10 (Corridor Renewal, Enhancement, and Expansion for I-10) team, Arcadis is responsible for **bridge and structural design**, development of interchange modification reports (IMRs), permanent signing plans, and development of a **transportation management plan (TMP).** The purpose of the project is to widen I-10 from 3 lanes to 4 lanes in each direction, including bridge replacement and rehabilitation, interchange and ramp modification, shoulder widening, and auxiliarly lanes from LA 415 to Essen Lane. RCP Plan Phase and Phase 1 Design of the project are in development, which includes the segment of I-10 from the Mississippi River Bridge to Essen Lane.

Relevant Services

- Bridge and Structural Design
- Traffic Study and Design
- Construction Cost Estimate
- Transportation Management Plan
- Stakeholder and Agency Coordination

Concept rendering of Nairn Drive bridge replacement on I-10 between Acadian Thruway and College Drive

Bridge / Structural Design – Arcadis is designing the Nairn Dr. bridge replacement over I-10 between Acadian Thruway and College Drive. One critical component of the design is incorporating context sensitive solutions to weave the appearance of the bridge into the surrounding community and provide consistency with local infrastructure and community needs.

Transportation Management Plan – Arcadis is responsible for developing the TMP for the project, which is critical to ensuring the safety of motorists and workers, quality of work, and minimizing travel delays during construction. Arcadis developed a calibrated mesoscopic model to evaluate construction phasing alternatives, determine impacts to the interstate and local network, and identify effective mitigation strategies.

Permanent Signing – Permanent signing plans are being developed to replace all existing guide signs and standard signs along the corridor. Proposed signs utilize the latest state and federal policy guidance and employ strategies such as sign spreading to guide motorists safely and efficiently through the corridor.

Interchange Modification Report – Arcadis is preparing IMRs for proposed modifications to interchanges along the I-10 corridor, including interchanges improvements at Acadian Thruway, Dalrymple Drive, and Washington Street, and the removal of the existing interchange ramps at Perkins Road.

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic, Planning, ITS
Project name	I-10 CMAR - Traffic Engineering Services	Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Baton Rouge, Louisiana	Owner's Project Manager	Nicholas Olivier
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, Louisiana 70804-9245, 225 379 1133, Nicholas.Oliver@la.gov		
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost ($1,000's)	$2,500
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$2,500

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

Firm Members Involved: Akhil Chauhan; Kester Hollier; Ari Deitch

Arcadis is providing all traffic engineering services for this high-profile project to widen I-10 through Baton Rouge. These services include traffic data collection, traffic modeling and studies, interchange modification report, mesoscopic modeling, TMP, traffic signal timing, signal design, and permanent signing design.

Traffic Signal Design and Inventory

Arcadis is developing signal design plans for permanent and temporary conditions. Traffic signal inventory was conducted for all traffic signals. Design plans include signal equipment and detection layouts, wiring diagrams, timing plans, and quantities. Additionally, permanent signing plans are being developed for interstate and arterial segments of the project.

Transportation Management Plan

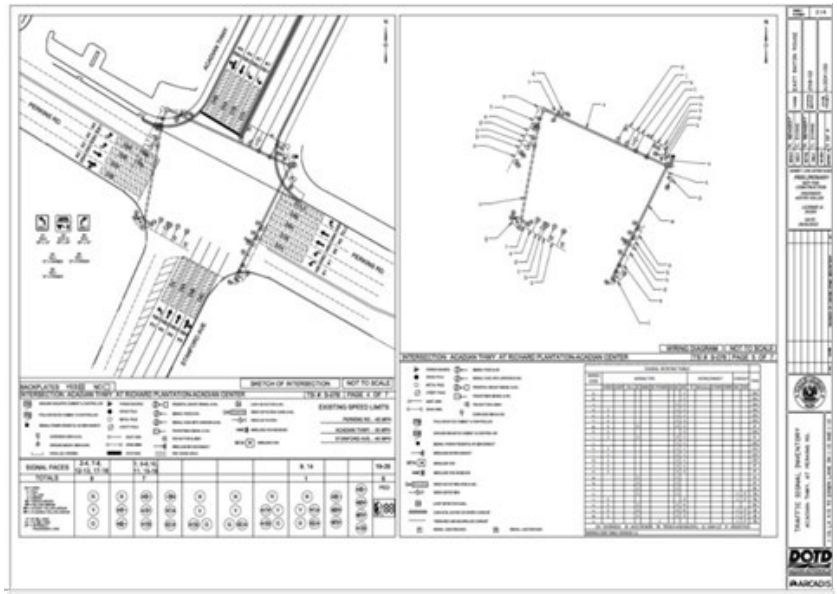
Based on mesoscopic modeling results, Arcadis is developing mitigation strategies to address the operational impacts of construction sequencing. These mitigation strategies include identifying critical alternative routes that will be utilized during construction and determining improvements to the broader transportation network that will be necessary to support construction activities.

Traffic Modeling / Studies / Interchange Modification Reports

Traffic analysis and modeling are being performed to determine freeway, interchange, and corridor improvements being implemented as part of the project. Analysis tools such as Highway Capacity Software, Sidra, and Synchro are being utilized. Traffic data collection and volume development are also being conducted to establish existing and future year conditions. Interchange Modification Reports are being developed to document the results of these analyses. All study tasks are being performed in accordance with TEPR Requirements. In addition, mesoscopic models using Dynameq are being employed to assess the impacts of construction sequencing within the broader transportation network.

Relevant Services

- Transportation Management Plan
- Traffic Signal Timings
- Traffic Signal Inventory
- Traffic Signal Design
- Traffic Modeling and Analysis
- Permanent Signing Design



Traffic Signal Plans – Equipment Layout and Wiring Diagram

Firm name	ARCADIS	Past Performance Evaluation Category(ies)*	CPM
Project name	**Construction Package (CP) 2-3 Segment**	Firm responsibility (prime or sub?)	Prime
Project number	HSR13-81	Owner's name	California High Speed Rail (CHSR) Authority
Project location	Fresno to Kern/Tulare County, California	Owner's Project Manager	Ben Ruiz
Owner's address, phone, email	770 L Street, Suite 800 Sacramento, CA 95814/559 573-2443/Benjamin.ruiz@hsr.ca.gov		
Services commenced by this firm (mm/yy)	07/14	Total consultant contract cost ($1,000's)	$1.6 million
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$120,000
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)			

Firm Members Involved: Girish Kripalani, Anup Shah

Arcadis was selected by the authority to provide Project, Program, and Construction Management (PMCM) services to oversee the design-builder for Construction Package 2-3 in California's Central Valley. The purpose of the project and construction management role is to enhance the authority's ability to effectively manage the multiple large contracts required to deliver the construction segments. This oversight minimizes construction risks and guarantees that the delivery of a high-speed rail system meets the mandates of Proposition 1A. Arcadis, under the direction of the authority, is providing the expertise and resources required for the construction oversight and ICE/ISE work. The Arcadis key staff and team are co-located with the design-build team. The CP 2-3 project includes over 65 miles of roadway improvements, new structures, drainage or stormwater pollution prevention plans, utility relocations, third party coordination, right-of-way acquisitions, environmental monitoring, extensive authority having jurisdiction coordination, and trackway alignment. A breakdown of the project components includes:

- Over 50-miles roadway realignment and local roadway improvements
- 9.6-miles of aerial structures
- 4.9-miles of retaining walls
- 36 grade separations (viaducts, underpasses, and overpasses)
- 50-miles of 10-feet elevated above grade fill to complete the new rail track bed profile
- 12.5 miles of 115-kilovolt transmission lines
- 65-miles of HSR trackway alignment
- 5.4-miles of freight rail (Burlington Northern Santa Fe Railway) realignment

Relevant Services

- Project Management and Administration
- Quality, Verification and Validation, and Self-certification Oversight; Including Independent Checking Engineer (ICE) and Independent Site Engineer (ISE) Responsibilities.
- Safety and Security Oversight
- Project Controls Oversight or Risk Management
- Engineering, Construction and Environmental Oversight
- Third Party and Utility Oversight
- Public Outreach
- Specialty Support Services, Including Right of Way

The CP 2-3 Construction Contract is the second phase of the HSR construction. Arcadis is providing PMCM services to help the HSR authority effectively manage the construction of 65 miles of roadway improvements, realignments, and multiple at-grade and elevated structures. Arcadis is serving as the main interface for the CP 2-3 contract and is responsible for managing, monitoring, tracking, and reporting on the design and construction deliverables of the design-build team.

Gresham Smith	Past Performance Evaluation Discipline(s)*	Traffic

LADOTD, Traffic Engineering Retainer Contract TO#2: I-210 at LA 11382 (Nelson Road) Interchange Modification Re-Evaluation Study

Firm responsibility (prime or sub?)	Prime

Project number	H.011065.5	**Owner's name**	Louisiana Department of Transportation and Development
Project location	Lake Charles, Louisiana	**Owner's Project Manager**	Brandon DeJean, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.242.4643 / brandon.dejean@la.gov		
Services commenced by this firm (mm/yy)	03/17	**Total consultant contract cost ($1,000's)**	$290
Services completed by this firm (mm/yy)	11/18	**Cost of consultant services provided by this firm ($1,000's)**	$208

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

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

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

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

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

Project Highlights

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

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

Gresham Smith	Past Performance Evaluation Discipline(s)*	Bridge

Complex Bridge Inspections IDIQ – Task Order #2, US 71 Spring Street Emergency Bridge Repairs

Firm responsibility (prime or sub?)	Prime

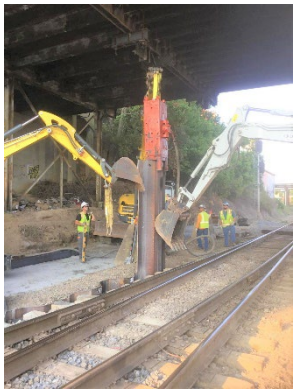
Project number		**Owner's name**	Louisiana Department of Transportation and Development
Project location	Shreveport, Louisiana	**Owner's Project Manager**	Heather Patton, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1306 / Heather.Patton@la.gov		

Services commenced by this firm (mm/yy)	04/20	**Total consultant contract cost ($1,000's)**	$142
Services completed by this firm (mm/yy)	09/20	**Cost of consultant services provided by this firm ($1,000's)**	$130

LADOTD selected Gresham Smith for a 5-year IDIQ Design contract to perform Complex Bridge Inspection and Design Repairs. Gresham Smith is currently in the second year of this contract; having completed three task orders and entering contract phase on the 4th task order.

In April 2020, a train derailment impacted the US 71 Bridge over KCS Railroad in downtown Shreveport, causing the emergency closure of the bridge. LADOTD assigned Gresham Smith under TO #2 to prepare design plans to replace bent three and to install a concrete crash wall for future protection. Gresham Smith performed an emergency inspection of the bridge to perform measurements and evaluate potential repairs. Coordination with the railroad staff was performed to minimize impacts from on-going rail traffic. A contractor was selected to perform the construction, and Gresham Smith coordinated with the contractor and DOTD on potential repair details, similar to a formal Construction Management at Risk (CMAR) contract arrangement.

Repairs included the installation of helical piles to resist the railroad crash loads on the foundations and utilization of rolled shapes to expedite steel fabrication. A strongback system to support the structure during the removal of the damaged bent was designed by the contractor. Gresham Smith reviewed and approved the system, then performed a field review to verify installed compliance with the design. Geotechnical evaluations were completed and utilized for the design of the helical piles and concrete wall footer.



Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.
Firm members involved include: Bert Moore and John Weres

Gresham Smith	Past Performance Evaluation Discipline(s)*	Road

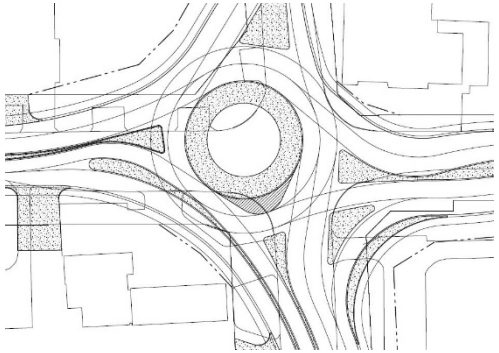
Hooper Road at Sullivan Road Roundabout Design

Firm responsibility (prime or sub?)	Sub

Project number	H.002320	**Owner's name**	City of Central (LA)
Project location	Central, Louisiana	**Owner's Project Manager**	Toby Picard, P.E., Project Manager
Owner's address, phone, email	13421 Hooper Road, Suite 8, Central, LA / 225.379.1302 / toby.picard@la.gov		

Services commenced by this firm (mm/yy)	04/20	**Total consultant contract cost ($1,000's)**	$195
Services completed by this firm (mm/yy)	12/22	**Cost of consultant services provided by this firm ($1,000's)**	$195

This project was originally designed as an intersection improvement project to add left and right turn lanes at the intersection of Hooper Road (LA 408) at Sullivan Road (LA 3034). Due to the anticipated future traffic volumes, it was determined that a multi-lane roundabout would be more efficient and have a longer service life than the planned traditional signalized intersection. Gresham Smith was selected to design the multi-lane roundabout at the intersection of Hooper Road at Sullivan Road.



The intersection contains some major constraints which include a historic building in the Northeast quadrant of the intersection and a gas station in the Southwest quadrant of the intersection. The roundabout must accommodate both pedestrians and bicyclists as well as multiple approach lanes and free flow right turn lanes at select approach legs as required by LADOTD's conceptual traffic design to accommodate future projected traffic volumes.

Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Determining the location of the roundabout is critical in balancing a good geometric design with minimal right-of-way impacts and utility conflicts. Gresham Smith was also tasked with the drainage design at the roundabout and approach legs and was responsible for developing typical sections, plan and profile sheets, cross sections, quantities and construction cost estimates. This project included a conceptual design phase as well as both preliminary and final plan design.

The roundabout design underwent several geometric reviews by DOTD, including a plan-in-hand meeting. The 100% preliminary plans were fully completed. However, construction funding issues led to scope adjustments for the intersection design, and the design reverted back to the signalized intersection for final plans. The project let in December 2022, and the design of the future roundabout is now being considered in a separate CMAR project.

Nature of firm's responsibility: Sub Consultant; Responsible for Developing Preliminary and Final Roundabout Design Plans.
Firm members involved: Brennon Hughes, Bert Moore, Richard Savoie and Ronnie Robinson.

Firm name	**Civil Design and Construction, Inc.**		Past Performance Evaluation Discipline(s)*	**Survey**	
Project name	**Verot School Road**		Firm responsibility (prime or sub?)	**Sub**	
Project number	**H.011235**	Owner's name	**LADOTD**		
Project location	**Lafayette, LA**		Owner's Project Manager	**Thomas Gattle (Huval & Assoc.)**	
Owner's address, phone, email	**922 W. Point Des Mouton Rd., Lafayette, LA 70507/337-234-3798/tgattle@huvalassoc.com**				
Services commenced by this firm (mm/yy)	**08/16**	Total consultant contract cost ($1,000's)		**N/A**	
Services completed by this firm (mm/yy)	**01/18**	Cost of consultant services provided by this firm ($1,000's)		**$435**	

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

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

Members Involved: Karla Weston, PE; Christopher Ballard, PLS Survey PM; John Ewing, Survey Tech; Trent Norris, 3D Scan Tech; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief;

Performed in LA: 100%

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	EBR Computerized Traffic Signal, PH VB			Firm responsibility (prime or sub?)	sub
Project number	H.007160	Owner's name	DOTD		
Project location	East Baton Rouge		Owner's Project Manager	Desmond Sam, PE	
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)	current		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 staff 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 / Attend 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 DOTD / 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

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, and Reece Rodrigue (100% performed in Louisiana)

Firm name	**Vectura Consulting Services, LLC**	Past Performance Evaluation Category(ies)*	Traffic
Project name	I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study	Firm responsibility (prime or sub?)	sub
Project number	H.004957.5	Owner's name	DOTD
Project location	Lacombe, LA	Owner's Project Manager	Joachim C Umeozulu, P.E
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1386, Joachim.Umeozulu@la.gov		
Services commenced by this firm	09/16	Total consultant contract cost ($1,000's)	$1,895
Services completed by this firm	05/17	Cost of consultant services provided by this firm ($1,000's)	$84

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

Task 1 Data Collection

Vectura collected the following traffic data for 10 intersections:

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

Task 2 Traffic Study

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

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

Task 3 Safety Analyses

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

Personnel Utilized on this project: Brin Ferlito, Bridget Robicheaux, and Laurence Lambert (100% performed in Louisiana)

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)*	Traffic & CE&I/OV	
Project name	Belle Chasse Bridge & Tunnel Replacement PPP		Firm responsibility (prime or sub?)	sub	
Project number	H.004791	Owner's name	DOTD		
Project location	Belle Chasse, LA		Owner's Project Manager	Nickolas Olivier, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1133, Nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)		n/a	
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)		$211,890	

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

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

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

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, and Reece Rodrigue (100% performed in Louisiana)

Firm name	Ardaman & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR)**		Firm responsibility (prime or sub?)	Sub	
Project number	SP No. H.004100.5	Owner's name	LADOTD		
Project location	East Baton Rouge Parish, LA		Owner's Project Manager	Nicholas Olivier	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 225.379.1133; nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	07/21	Total consultant contract cost ($1,000's)		$20,800	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$692	

PROJECT DESCRIPTION

The Construction Management at Risk (CMAR) project scope consists of widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 mile. Ardaman is the Geotechnical Consultant on the CMAR team and is currently providing geotechnical support for Segment 1 which starts near the I-10 and I-110 split between Napoleon and St Joseph Streets to Acadian Thruway entrance and exit ramps.

Ardaman previously completed 58 soil borings and associated laboratory testing based on LADOTD standards, and 11 electronic cone penetration tests (ECPT) in the preliminary portion of the widening project between Napoleon Street and Louise Street under our current retainer contract in support of the project. In addition, Ardaman performed geophysical surveys along the entire alignment, which allowed for survey of the subsurface conditions between the boring locations. Ardaman is currently performing 37 additional soil borings along the Segment 1 area to supplement existing data along the alignment.

Engineering services include supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile and analyze all the supplied soil boring data provide by LADOTD and the additional borings that are currently being performed. The engineering analyses consist of detailed selection of design reaches and design soil parameters, slope stability and settlement of earth retained structures, soil-structure interaction with existing structures, deep foundation design, and load testing recommendations. A preliminary geotechnical assessment report was prepared, and a final geotechnical design report will be submitted.

FIRM MEMBERS:

Robert Jewell, Megan Bourgeois, Ross McGillivray, Jarmon King, Robert Rousset, Chandler Willis, Donald Anthony, Casey Floyd, Chae Hrenyk

Firm name	Ardaman & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**I-20 Mississippi River Bridge Review**		Firm responsibility (prime or sub?)	Prime	
Project number	SP No. H.004646 09-L1049 H.010603.6 13-3720 H.010612.6 20-3729	Owner's name	LADOTD		
Project location	Madison Parish, LA		Owner's Project Manager	Chris Nickel	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 225.379.1100; Chris.Nickel@la.gov				
Services commenced by this firm (mm/yy)	10/09	Total consultant contract cost ($1,000's)		$7,326	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$7,326	

PROJECT DESCRIPTION

Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified.

Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers, and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses.

As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

Ardaman is currently managing a phase of the project which involves upgrading the entire instrumentation communication system. It also includes gathering and continuously monitoring various types of instrumentation data, inspects of the site and monitoring changes in topography by obtaining periodic survey data.

FIRM MEMBERS:

Megan Bourgeois, Robert Jewell, Ross McGillivray, Robert Rousset, Jarmon King, Chandler Willis, Donald Anthony, Casey Floyd, Chae Hrenyk

Firm name	Ardaman & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)**		Firm responsibility (prime or sub?)	Sub	
Project number	SP No. H.004273.5	Owner's name	LADOTD (Client: Stantec)		
Project location	Lafayette Parish, LA		Owner's Project Manager	Chris Nickel	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1100 | Chris.Nickel@la.gov				
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost ($1,000's)		$21,000	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$1,889	

PROJECT DESCRIPTION

The overall project includes construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles, 3.5 of which consist of elevated structure. The project includes one three-level directional interchange at Kaliste Saloom Road (majority of interchange on structure); two full diamond interchanges at University/Surrey Street and Willow Street; two single point diamond interchanges at Johnston Street and 2nd/3rd Streets with associated railroad grade separations and arterial cross street studies involved; and various cross street connections at Pinhook Road, Jefferson Street, Mudd/Simcoe Street, Donlon Street, Castille/Martin Luther King Road and several minor streets.

The scope of services for this project includes preconstruction engineering design and related services for the construction of 5 miles of freeway consisting of a 3.5 mile-elevated structure that will include pile supported approach slabs, pile foundations, slope stability, pavement recommendations, embankment settlement, development of an advanced load test program, earth retaining structures, pavement design recommendations, and development of a design report presenting the geotechnical recommendations. The goal of the project is to design and construct the freeway and connecting infrastructure within the parameters and commitments of the selected alternative. Ardaman is currently conducting the geotechnical field investigation which consists of approximately 400 deep and shallow borings and Cone Penetrometer (CPT) soundings (including field reconnaissance, gaining rights of entry, completing utility location, GPS location and water table elevations), laboratory testing, and geotechnical engineering analyses and design for this project.

FIRM MEMBERS

Megan Bourgeois, Robert Jewell, Ross McGillivray, Robert Rousset, Jarmon King, Chandler Willis, Donald Anthony

Firm name	A P S Engineering and Testing, LLC		Past Performance Evaluation Discipline(s)*	** Geotech	
Project name	I-10 Widening LA 415 to Essen LN			Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	DOTD		
Project location	Baton Rouge, LA		Owner's Project Manager	Kristy Smith, P.E.	
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA 70802-4438/ 225.379.1016/ kristy.smith2@la.gov				
Services commenced by this firm (mm/yy)	09/19	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	05/23	Cost of consultant services provided by this firm ($1,000's)		$400K	

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

SCOPE - GEOTECHNICAL INVESTIGATION TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND DESIGN OF I-10 WIDENING. A WAS TASKED TO DRILL AND SAMPLE A TOTAL OF 52 DEEP BORINGS STARTING AT THE WASHINGTON EXIT AND ENDING AT THE LSU LAKES. ALONG WITH DRILLING AND SAMPLING, A P S TESTED FOR STRENGTH AND ENGINEERING CHARACTERISTICS OF THE SOILS. A TOTAL OF EIGHT (8) OVER THE WATER BORINGS AND 44 LAND BORINGS WITH APPROXIMATELY 1000 TRIAXIAL COMPRESSIONS, UNCONSOLIDATED DRAINED OR UNDRAINED (UU) AND ATTERBERG LIMITS PERFORMED. THE LABORATORY TESTING PROGRAM ALSO INCLUDED VISUAL CLASSIFICATION AND DETERMINATION OF WATER (MOISTURE) CONTENT, ASH CONTENT, ORGANIC MATERIAL OF PEAT AND OTHER ORGANIC SOILS, AS WELL AS THE AMOUNT OF MATERIALS FINER THAN 75-MM (NO. 200) SIEVE IN SOILS BY WASHING.

Key personnel:

Sergio Aviles, PE.– Project Manager
Sai Eddanapudi, ME, PE –Project Engineer
Surendra Raj Pathak, MS, PE. – Project Engineer

SIMILARITIES TO PROFESSION ALGEOTECHNICAL SERVICES	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	CMAR
X	Construction Engineering Inspection (CE&I)

Firm name	A P S Engineering and Testing, LLC		Past Performance Evaluation Discipline(s)*	** Geotech	
Project name	Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge		Firm responsibility (prime or sub?)	Sub	
Project number	H.001352; H.002273	Owner's name	Huval & Associates, Inc.		
Project location	East Baton Rouge, LA		Owner's Project Manager	Thomas M. Gattles III, P.E.	
Owner's address, phone, email	922 West Don't des Mouton Rd,. Lafayette, LA 70507 / 337.264.3798/ tgattle@huvalassoc.com				
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	06/22	Cost of consultant services provided by this firm ($1,000's)		150K	

SCOPE- GEOTECHNICAL ENGINEERING TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND BUILDING OF LA-19 RR BRIDGE - SLOPE STABILITY (EMBANKMENT), LA- 19 RR BRIDGE - EMBANKMENT/ MSE WALL SETTLEMENT/ RETAINING WALL, LA 19 TWIN BRIDGES- PPC PILES, LA- 67 BRIDGE - DRILLED SHAFTS. A P S DRILLED AND SAMPLED A TOTAL OF 19 BORINGS RANGING BETWEEN 50FT. AND 110FT. IN DEPTH. TESTING OF COLLECTED SOIL SAMPLES WAS PERFORMED IN HOUSE BY APS LABORATORY. THE TESTING SCHEDULE INCLUDED VISUAL CLASSIFICATION AS WELL AS STANDARD METHODS FOR DETERMINING MOISTURE CONTENT, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY, UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION, AND ONE-DIMENSIONAL CONSOLIDATION.

Key Personnel:

Engineering

Sergio Aviles, PE.– Project Manager
Sai Eddanapudi, ME, PE – Project Engineer
Surendra Raj Pathak, MS, PE. – Project Engineer

Laboratory Testing

Sergio Aviles, PE,-QA/QC
Sai Eddanapudi, ME, PE-QA/QC

Drilling

Van George-Driller
Eric Batiste-Driller
Melvin Vasquez-Driller tech
Oscar Johnson-Driller tech
Trenton anderson-Driller tech

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	CMAR
X	Constructability
X	Construction Engineering Inspection

Prime consultant name: WSP USA Inc.

18. Approach and Methodology:

THE WSP TEAM: OUR PEOPLE, OUR COMMITMENT, DOTD'S SUCCESS

The **WSP USA (WSP)** team described in this submission provides the proven transportation implementation and alternative delivery experience with people and projects that are directly relevant to DOTD's needs. WSP is a leader in NEPA strategy and documents, and traditional and alternative project delivery, including P3, DB, construction management at risk (CMAR), and progressive DB (PDP) and progressive P3. Along with our team members, WSP has a well-established record of technical and program management excellence serving DOTD. The WSP team includes partners such as **Arcadis** and **Gresham Smith** with strong, local ties to Louisiana. Our team also includes, **Ardaman**, **T2 Utility Engineers**, and DBE firms **Civil Design & Construction**, **APS Engineering & Testing**, and **Vectura**. Our team will easily exceed the DOTD's 2% participation goal for this contract. We have included specialty subconsultant **Garver USA** for operations and maintenance estimating.

Our team is poised to provide DOTD with all the planning, NEPA, engineering, financial, management, outreach, and administrative advisory services necessary to advance projects from concept-to-delivery including NEPA support, initial delivery options assessment, support from procurement to contract execution, and post award construction services. As demonstrated in our support to the Maryland Department of Transportation's (MDOT) I-495/270 Progressive P3 and Michigan Department of Transportation's (MDOT) I-75 Segment 3 P3, the WSP team is prepared to function as an extension of DOTD's staff, providing expert guidance through the federal environmental and major project approval processes to develop viable transportation solutions.

Concurrent with federal coordination efforts, our team will provide the technical and strategic expertise to support development of market-accepted, risk-balanced procurement documents to promote robust competition throughout the procurement process, secure and evaluate Alternative Technical Concepts (ATCs), and perform technical and financial analyses. WSP provided these same services on the Maryland and Michigan P3 projects mentioned above. In the case of Michigan's I-75 Segment 3 P3, WSP acted as owner's representative throughout the planning, design and construction phase of the P3, providing design and submittal reviews and construction services. WSP is currently providing contract administration and engineering support services for Michigan DOT during the 20-year maintenance phase.

WHY THE WSP TEAM?

Firm Experience on Similar Projects: WSP has supported nearly all DOTs across the United States in the delivery of critical infrastructure from NEPA studies through construction services. WSP has also advised and/or managed the delivery of more than 100 transportation P3 and alternative delivery projects and closed 44 transactions in North America valued at over $50 Billion since 2004.

Staff Experience on Similar Projects: Our national transportation staff, including our alternative delivery staff and P3 experts, combined with our local technical staff will provide DOTD with the depth of resources that covers the full platform of services that are necessary to integrate all environmental, engineering, technical, commercial, financial and policy aspects of project delivery.

Firm Size as Related to the Project Magnitude: As a large firm with more than 9,700 planners, engineers, technical experts, strategic advisors, and PM/CM professionals in 150 offices across the US, WSP has the capacity and access to resources to partner with DOTD and provide the services envisioned under this contract.

Past Performance on Similar DOTS projects: Most recently, WSP served as the technical advisor for DOTD's P3 procurement of the Calcasieu River Bridge replacement, and provided a full range of services encompassing engineering, commercial advisory, and grant support. Previously, WSP served as the program manager for the highly successful $5.2 billion Transportation Infrastructure Model for Economic Development (TIMED) Program as well as design and engineering services for DOTs across the Southeastern United States.

Current Workload with DOTD: WSP's current backlog of work under contract with DOTD represents a minor fraction of our capacity to deliver.

APPROACH & METHODOLOGY

The WSP team is structured to deliver the full range of services for DOTD. Our integrated approach is built on lessons learned from similar projects and tailored to deliver the right resources who can meet project schedules and deliver our services efficiently and effectively.

THE WSP TEAM: ORGANIZED TO DELIVER

Our organization chart in Section 14 of this submittal illustrates the depth of our resources and team integration, covering the full range of services listed in the RFQ.

Project Manager (PM), Sallye Perrin, is a nationally recognized P3 and alternative delivery expert who has been a senior technical advisor or manager on some of the largest and most complex P3 and alternative delivery projects in the US and Canada, including the Louisiana DOTD Calcasieu River Bridge P3, MDOT I-495/I-270 Progressive P3, the Michigan I-75 Segment 3 P3, the Los Angeles World Airport APM P3, the Annapolis City Dock PDB, Otay Mesa East CMAR project and Viva Bus Rapid Transit PDB (Canada). Sallye has extensive experience managing task order contracts and

understands the need to respond quickly to owner's needs for services, whether on large complex projects or single task orders that require rapid response and mobilization. Sallye's experience ranges from managing NEPA studies, to developing engineering designs, to supporting procurement and construction services.

Deputy Project Manager (DPM), **Andres Giraldo**, is a P3 and alternative delivery advisor, experienced in complex infrastructure development in North and South America. Andres' experience includes feasibility studies, due diligence, and risk allocation for alternative delivery throughout a project's lifecycle. Andres has been responsible for project cost estimating (both capital and operations and maintenance), financial modeling as well as project controls. He has provided strategic advice for risk allocation, contracting strategies and claims support. Andres provided technical and management support for the development of the performance specification for the Calcasieu River Bridge P3 procurement and is intimately familiar with the DOTD procurement documents.

Principal-in-Charge (PIC), Max Nassar will assist Sallye and Andres and will serve as the first point of oversight for client satisfaction. As WSP's area manager for Louisiana, Mississippi, and Alabama, Max is located in Baton Rouge and will support the WSP team in the successful delivery of task orders. In close coordination with our PM, Max will ensure that at a strategic level the WSP Team's functions are aligned with DOTD's.

We have structured our team to mirror the disciplines required to meet the comprehensive scope of services required to support project implementation, delivery, and administration. Our team members and our approach ensure that we can provide support during all phases of project delivery including feasibility and delivery options analyses, engineering design, procurement technical and commercial support through transaction execution, and construction support. Each discipline will be led by a subject matter task lead with direct experience working on alternative delivery procurements—from concept development to contract award and contract management. Each of the task leads will be supported by additional local and national staff. Highlights of the project experience brought forth by the team include:

The **Technical Team** will be led by **Matt Oumedian**, who will oversee the technical activities including design, engineering, cost analysis and scheduling efforts, as well as development of performance-based technical specifications, and hand-back provisions. With more than 20 years of experience, Matt, most recently served as the PM on the owner's representative contract for Michigan DOTs I-75 Segment 3 P3. In that role, Matt was responsibilities included management of NEPA documentation, analysis and selection of the P3 approach, development of the design and technical specifications and support for P3 procurement, support for contract execution and oversight during construction. The P3 project received final acceptance in the summer of 2024 and is now in the maintenance term. The project consists of reconstruction of 5.5 miles of the interstate and construction of a 14-foot diameter, 4-mile-long drainage tunnel and pump station. Matt's experience also includes developing the DB technical specifications for the first DB project being undertaken by the Illinois State Toll Highway Authority.

The **Project Delivery Strategy and Transaction Execution Team** will be led by **Deborah Brown,** who will coordinate the Team's technical, legal, and financial tasks to effectively support DOTD in selection of private partners to enter into pre- development or comprehensive agreements and assist DOTD in fulfilling project requirements and commitments. Previously in her career, Deborah led the initial implementation of the Virginia DOT's (VDOT) highly successful and long-running P3 program, which included developing the initial Program Implementation Guidelines and led the negotiation of the Pocahontas Parkway, the first new infrastructure delivered under Virginia's P3 statutes. In her role leading the financial negotiations for the Capital Beltway High- Occupancy Toll (HOT) Lanes P3 for VDOT, Deborah led the issuance of the first PABs authorized under SAFETEA-LU to fund a portion of the $2 billion highway improvement project. Following her career with VDOT, Deborah led FHWA's efforts to develop the P3 Model Contracts Guide as well as a P3 Toolkit comprised of research materials and tools designed to educate practitioners and high-level policy makers on the practical aspects of P3 project delivery. Deborah's WSP portfolio includes her role as project manager for Louisiana DOTD on the Calcasieu River Bridge P3, MDOT on the Purple Light Rail P3 and the I-495/I-270 P3 Program, ADOT on the I-10 DB, and North Carolina DOT (NCDOT) on the I-77 HOTLanes projects. Deborah led WSP's support to DOTD that resulted in a obtaining the 2022 Mega Grant for the Calcasieu River Bridge replacement.

The Technical and Project Delivery and Transaction Execution Teams, will be supported by a highly skilled bench of experts, with demonstrated experience in management of P3, DB, and CMAR procurements as well as post-award support in claims and dispute management. Experienced technical support and engineers from the technical team include **Lisa Fruge**, **PE,** who has a wealth of experience in urban and rural roadway design including DOTD and local Parish projects. Lisa has delivered designs under both traditional and DB approaches giving her a unique understanding of the requirements of each. **Hatem Saleim**, **PE**, is an experienced structural engineer with special expertise in the design and behavior of reinforced and prestressed concrete structures and bridges and has a depth of experience with DOTD structural design. **Ian Chaney**, **PE**, is WSP's national director for geotechnical and tunneling. He has experience in Louisiana from his ongoing work on the CPRA Mid Barataria Sediment Diversion Project. He has worked on multiple DB and P3 projects in the Southeast. **Andrew Woodhouse** who has both DB and P3 experience gained from his recent work as overall development and management of technical provisions for the MDOT I-495/I-270 P3 and later DB mega projects. Other experts such as **Paul Lutkevich** (highway lighting), **Carlos Campos** (tolling technology) and **Fanny Padron** (scheduling) participated in WSP's support of the Calcasieu

River Bridge P3 project and are intimately familiar with DOTD processes and procedures.

Notable individuals from the Project Delivery and Transaction Execution Team include **Mark Polston**, **JD**, currently leading the ADOT I-10 and the MDTA Nice Bridge DB procurements. Mark is the former deputy director of the USDOT's Build America Bureau who led a team of expert underwriters in issuance of over $18 billion in TIFIA loans to P3 projects across the US. **Bryce Little**, **JD, AICP**, is currently the program office director for the $1.5 billion Gerald Desmond Bridge replacement DB project nearing its completion in Long Beach, California. Bryce has close to 30 years of transportation project experience, most notably for the Presidio Parkway P3 project, LA Metro ExpressLanes P3, California High- Speed Rail DB Program, TxDOT Comprehensive Development Agreement (CDA) program, and the Minnesota DOT (MnDOT) I-35W St. Anthony Falls Bridge DB replacement project (after bridge collapse). **Ken Beehler**, **JD** advised Utah DOT on procurement of the US-89/I-84 Progressive DB and the Utah Transit authority (UTA) on procurement of the First/Last Mile Connections CMAR project. Ken is currently serving as the contracts manager for the Port of Long Beach Gerald Desmond Bridge Replacement DB project.

Our nationally recognized team of procurement, technical and financial experts will be supported by our team's Louisiana-based professionals, all of whom are familiar with DOTD and are able to provide the highly qualified and responsive services necessary to deliver your program of projects. Our team is designed to provide comprehensive and first-class project development, engineering, procurement, and delivery support combined with unparalleled local technical expertise.

OUR APPROACH: A DIVERSE TEAM WITH AN INTEGRATED MINDSET LEADS TO SUCCESSFUL SOLUTIONS

The WSP team has a strong track record of supporting state DOTs with planning, environmental, engineering, and advisory services throughout the entire project delivery life cycle. We focus on integrating our technical, financial, and procurement services to ensure that we clearly understand each client's transportation project goals and are providing the planning, engineering, and procurement support for efficient and effective project implementation. In early stages of project development, WSP can conduct NEPA studies, provide support in evaluating the merits of unsolicited proposals, conduct policy-level project screenings, undertake value for money analyses, provide detailed delivery options analyses and perform risk assessments. During the procurement phase, our team can provide a full range of engineering support services including baseline studies (i.e. surveys, SUE, Traffic, geotechnical), developing technical provisions, evaluating Alternative Technical Concepts, estimating construction and operations and maintenance costs, and developing construction schedules. Following agreement execution, our team can provide a full range of construction oversight and contract administration support services to provide a seamless transition into implementation and delivery. We bring the experienced team members who have the tools and knowledge to provide the full range of services required under this task order contract, whether for individual task assignments or one specific project delivery.

Alternative Delivery Technical Services and Project Management and Support (Scope Items 1 & 2)

The WSP team understands that DOTD has a full range of delivery options available to choose from to implement their projects. Our team has the depth of resources and experience to assist DOTD with all aspects of traditional and alternative delivery implementation, from pre-procurement, through procurement and ultimately administrative and construction services support during implementation. We will work with DOTD to clearly define policy and project goals so that the recommended the selected delivery option accommodates the transportation solution that best meets DOTD 's objectives consistent with the overarching goals of enhancing public confidence, delivering critical infrastructure improvements efficiently and cost-effectively and providing a safe and sound infrastructure system.

Essential to our approach is working with DOTD to provide the necessary additional capacity for project development and implementation and ensuring that our integrated project development efforts are transparent and build upon our successes and best practices from the industry. As highlighted above, our team brings experience on a range of delivery approaches including design-build, progressive design-build, CMAR, Public Private Partnerships (P3s), and Progressive P3s. From WSP's work with DOTD on the Calcasieu River Bridge P3 Procurement, we understand that the Department has experience on a range of alternative delivery approaches and has "lessons learned" as well. Our goal is to work collaboratively with DOTD and build on our collective experience to deliver the necessary transportation improvements for Louisiana.

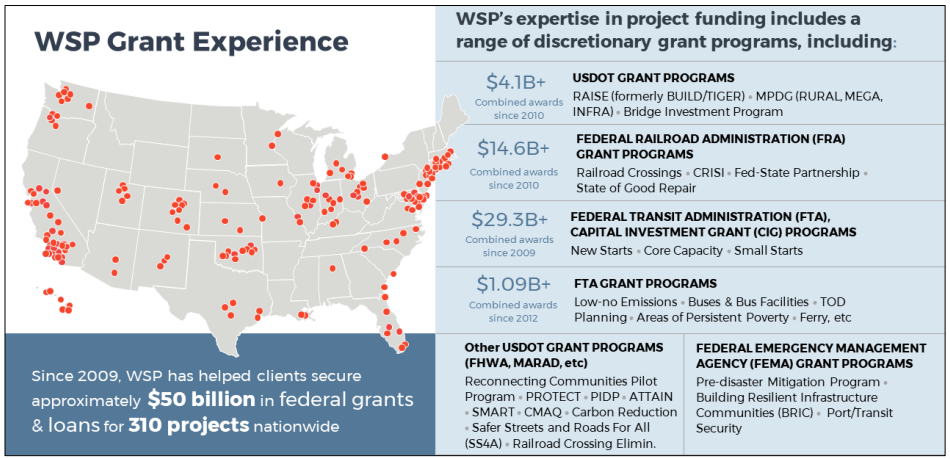
The WSP team's depth of experience in developing procurement documents for alternative delivery projects across North America will provide DOTD access to the latest precedent documents for project agreements, performance-based specifications, and technical provisions. Specifically Matt Oumedian, Ken Beehler, Mark Polston, Andrew Woodhouse, and Bryce Little bring recent experience from developing procurement documents and technical provisions for alternative delivery projects in Michigan, Illinois, California, Arizona, Kentucky, Pennsylvania, and Maryland which can clarify the current risk positions that contractors and developers are willing to take. WSP will work with DOTD to build upon existing DOTD documents and make necessary revisions to address a project specific scope as well as provide updates to address lessons learned from precedent documents as warranted.

The WSP team can provide a full range of technical advisory services for a single project as we did for the Calcasieu River Bridge P3 procurement where WSP provided technical advisory services and engineering support. Likewise, we can also provide support for specific tasks as needed by DOTD. The WSP team understands that maintaining the schedule for alternative delivery procurements is critical whether we are supporting a single project or individual task orders. Our PM, Sallye and DPM Andres, will respond promptly with task order budgets to get tasks underway quickly and will

monitor progress and prioritize the resources so that we are able to complete the assignment and meet DOTD's schedule.

The WSP team can provide the full range of technical advisory and program management services necessary for project implementation. We can assist DOTD in preparing Initial Financial Plans, evaluating other potential revenue sources (e.g., value capture mechanisms, alternative energy sources in highway rights- of-way), conducting risk assessment workshops, undertaking value engineering efforts, preparing project management plans, and supporting the preparation of grant applications to the federal government. Regarding the latter, WSP has a long and successful history of securing grants for transportation agencies.

In fact, since passage of BIL, WSP has secured $19.1B with 105 winning applications for transportation agencies. Specifically, WSP worked closely with the DOTD team to craft the compelling grant application for the Calcasieu River Bridge P3 which received the second highest Mega Grant ($150M) awarded in 2022. The WSP team also supported LADOTD in developing the Mega grant agreement with USDOT to secure the grant award.



Quality Assurance/Quality Control (QA/QC) (Scope Item 3)

Our team's QA/QC approach for our work is based on a total quality management model: (1) QA to proactively plan for quality by establishing quality objectives and processes; (2) QC to implement the plan to achieve planned activities and results; (3) Performance Measurement to measure processes and products against project and contract requirements; (4) Continuous Improvement focus to ensure processes continue to deliver intended outputs. The task leads, leadership team and senior advisors will work together to ensure our deliverables meet or exceed DOTD expectations.

The WSP team will also provide the reviews necessary to verify the accuracy and sufficiency of submittals, such as ATCs during the procurement phase, or design submittals, project management plan/implementation plan deliverables and schedules during the implementation phase. The WSP team will closely review the contractor's submittal schedules to identify when our resources are required so that we can provide DOTD with our comments within the timeframes that meet the contract requirements. We understand that the volume of submittals will vary depending on the stage of implementation and we will work with DOTD to validate and consolidate the comment logs so that the project can stay on schedule. Our team's depth of resources will provide DOTD with the experienced engineers to develop independent peer reviews of design and calculations at any point in a project's life cycle.

Technical Services (Scope Items 4-13)

The WSP team includes experienced engineers and planners with Louisiana DOTD and national expertise in the broad range of technical services required in the contract. Our people as demonstrated in our submittal, can provide these services whether part of a specific project or on a task order basis. In all cases, our team will meet DOTD's standard requirements as to format and content and in accordance with the latest applicable editions of the references listed in the solicitation. Matt Oumedian, our Technical Lead, will work with our PM and DOTD to clearly identify and detail the scope of services required and the schedule for delivery. Matt will then work with our technical team to identify the team members best suited to carry out the work in the required time frame. Depending on the scope of services required, the teams for any task may consist of our Louisiana based engineers and subconsultants or in the case of specialty services, Matt will have access to our national resources and experts. For instance, under WSP's supervision, our local subconsultants will be called upon to collect traffic data, perform geotechnical field surveys and provide topographic, bathometric and SUE surveys. For other tasks, our teams will include staff from our local and national practices so that we can bring a full range of technical expertise to DOTD. As an example, for the Calcasieu River Bridge P3 procurement, we combined local team members with national experts to address issues related to hazardous materials, vessel collision studies, roadway lighting and aesthetics, ITS design, tolling implementation, and traffic and revenue studies.

The WSP team can provide technical services for all stages of the project life cycle, whether in NEPA and planning, pre-procurement, procurement, or delivery. Our team's experience in planning and NEPA studies, alternative delivery support, program management, and construction support are unique. Both our PM, Sallye Perrin and our Technical Lead, Matt Oumedian, bring experience from the Michigan I-75 Segment P3 project where they were involved from the initial delivery options analysis through procurement to completion of construction and are now involved with oversight of the maintenance term. They are both attuned to the specific needs of the project during each stage of the project life cycle and can anticipate how decisions made during procurement can affect delivery. They can provide insights on the extent of technical information required for procurement and what are the effects of reliance on DOTD reference materials.

On of the lessons learned on the Michigan P3 project was the importance in having overlap in staff and knowledge transfer between procurement and the startup of delivery. Sallye and Matt will bring those insights to DOTD in undertaking construction support tasks. Our team will provide timely reviews of submittals and responses to RFIs which is critical to maintaining the project schedule. In addition, evaluating change requests and contractor's responses to non-conformance reports (NCRs) which is also key to keeping projects on track. While DOTD's role in oversight of construction will vary depending on the delivery option selected, our team can support DOTD with staff who have the specific experience relevant to the delivery approach selected and understand the owner's role in delivery.

Chart Key:

→ The project summary table provides a snapshot of the WSP team's experience managing projects of varied scope, size and nature for some of the emerging as well as well-established P3 and alternative delivery programs across the delivery life cycle.

→ PDB: Progressive Design-Build; DB: Design-Build; DBFM: Design-Build-Finance-Maintain; DBFOM: Design-Build-Finance-Operate-Maintain; AP: Availability Payment; CM/GC: Const. Mgr./Gen. Contractor

State	Project	Project Type	Financial Close	P3/Alt. Delivery Policy & Program Development	P3/Alt. Delivery Screening, Market & Industry Outreach	Traffic, Revenue, Ridership & Market Modeling &	Design & Engineering Technical Services	Performance Specifications & Technical Provisions Services	Risk Analysis, Allocation, & Mitigation	Financial Feasibility & Life Cycle Cost Analysis	Value for Money Analysis / Business Case Development	Procurement Documentation, Contract, & Technical Support	Transaction Execution & Negotiation	PM/CM, Contract Management, & Claims
LA	Moveable Bridges	P3 Assessment	✓	✓	✓					✓				
LA	Calcasieu River Bridge	P3 - R		✓	✓	✓	✓	✓	✓	✓		✓		
MI	I-75 Modernization	DBFM - AP	✓		✓		✓	✓	✓	✓	✓	✓		✓
MD	I-495/I-270 P3 Program	DBFOM - R		✓		✓	✓	✓	✓	✓	✓	✓	✓	
AZ	I-10 Improvements	DB	✓		✓		✓	✓	✓	✓		✓	✓	
UT	First/Last Mile Connections	CM/GC	✓				✓	✓				✓	✓	✓
UT	US-89; Farmington to I-84	PDB	✓	✓				✓	✓			✓	✓	
CA	Gerald Desmond Bridge	DB	✓				✓					✓	✓	✓
MD	Nice Bridge Replacement	DB	✓		✓		✓	✓	✓	✓		✓	✓	
MD	Purple Line	DBFOM - AP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CA	LA World Airport APM	DBFOM - AP	✓		✓		✓		✓	✓	✓	✓	✓	
CA	California HSR Program	DB	Under Development	✓		✓	✓		✓	✓	✓			✓
CO	Denver RTD Eagle	DBFOM - AP	✓				✓		✓	✓		✓		
FL	Port of Miami Tunnel	DBFOM - AP	✓				✓		✓			✓	✓	✓
MD	Frances Scott Key Bridge	PDB	RFQ/P Phase	✓	✓			✓						

Prime consultant name: **WSP USA Inc.**

TRAINING REQUIREMENTS

Our team meets all requirements relative to the "Traffic Engineering Process and Report Training Requirements" and the "Work Zone Training Requirements." However, immediately upon selection, Max Nassar (PIC) and Sallye Perrin (PM) will identify additional proposed staff to receive this training. The team will then schedule Louisiana-specific training at the earliest available date.

Regarding the Cybersecurity Training requirements, our PM will work with DOTD and the Office of Security Services to determine if cyber security training is required by WSP or its subconsultants. WSP staff are required to take cybersecurity training annually and will submit those course materials to the Office of Technology Services to determine if those courses will satisfy the state requirements.

TYPICAL SCHEDULE FOR ON-CALL CONTRACTS

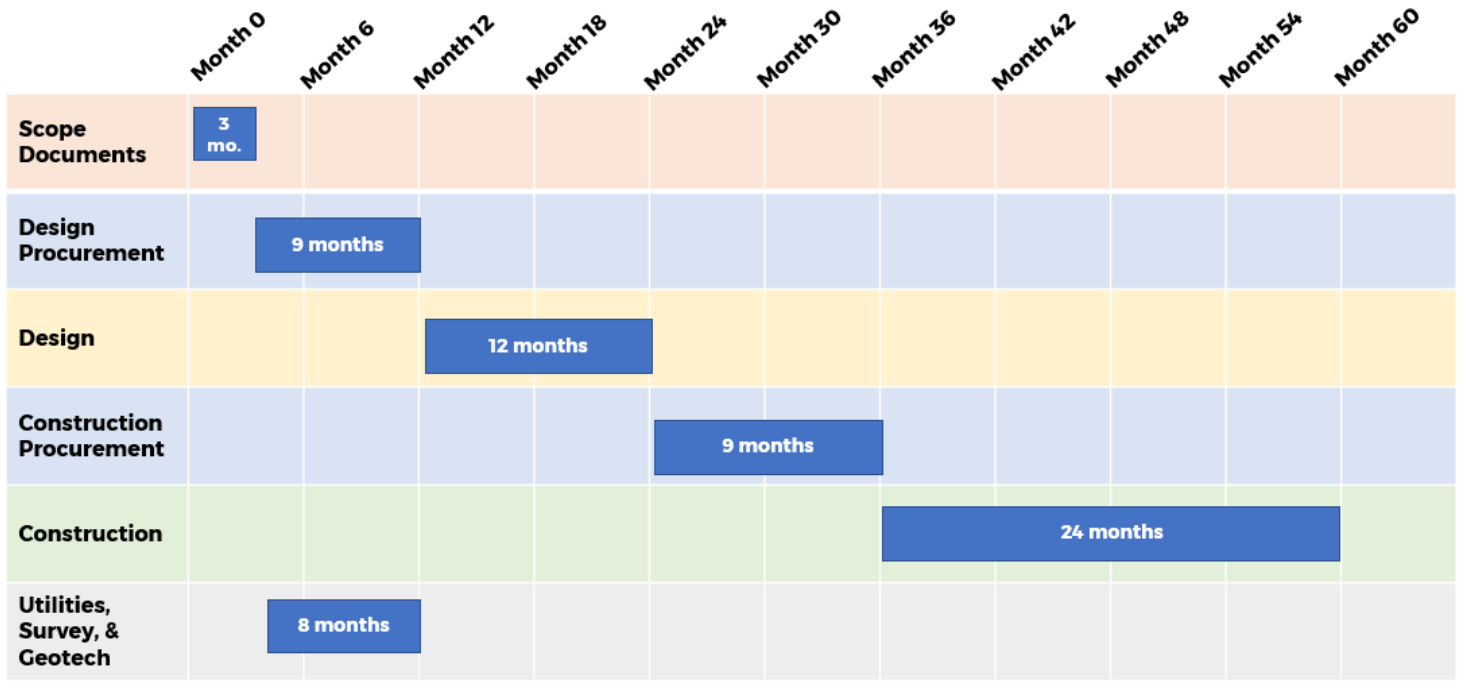
The range of services required under this solicitation will be delivered on a task order basis. Tasks can be assigned for a single project or for specific elements of work to support on-going DOTD activities. The following table describes the sequence of activities that the WSP team could be called on to perform for a traditional delivery of a design-bid-build contract. Our PM, Sallye, and DPM, Andres, will work with our technical and advisory leads, Matt, and Deborah, to identify the appropriate staff for assignment to a specific task or tasks. Since DOTD can develop projects through a variety of delivery approaches in addition to a traditional design-bid-build, our team has provided delivery schedules for five scenarios for design-bid-build, DP, PDP, P3, and CMAR. Our team will support DOTD in all steps of the project delivery process regardless of the delivery approach selected.

Task Order assignment will incorporate the following steps for a traditional Design-Bid-Build Project:

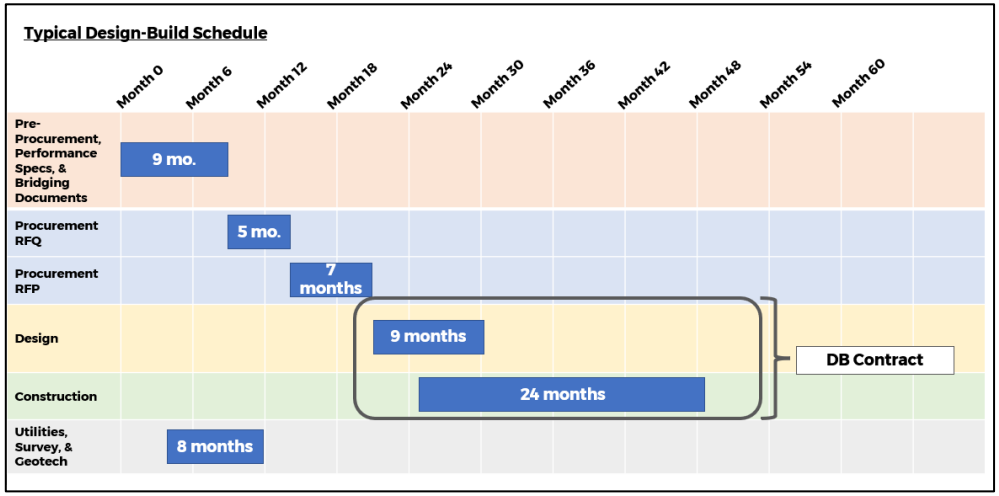
Assignment Kickoff	• Kick-Off Meeting with DOTD to confirm mutual expectations and identify relevant stakeholders. • Retrieve available existing data from DOTD. • Identify related projects that require coordination. • Conduct initial site assessment with DOTD Staff and Stakeholders (local government and electrical utility)
Preliminary Plans (30%)	• Perform Topographic Survey, adhering to the LADOTD Location and Survey Manual and modern practices and procedures. • Perform SUE and geotechnical surveys • Identify roadway classification and optimize design parameters. • Prepare preliminary designs • Perform QA/QC in accordance with ISO 9001 Certification and requirements designated by Bridge Design and Evaluation Manual, Part I Chapter 3 • Prepare and submit: 30% Final Design plans and Preliminary Opinion of Probable Construction Costs
Design Development (60%)	• Identify Technical Special Provisions • Develop relevant design data and advance design • Design refinement, including addressing comments from DOTD on previous submittal. • Perform QA/QC in accordance with ISO 9001 Certification and requirements designated by Bridge Design and Evaluation Manual, Part I Chapter 3 • Prepare and submit: Roadway Illumination Analysis, 60% Final Design Plans and Specifications, Detailed Opinion of Probable Construction Costs
Advanced Check Print (95%)	• Address comments received from the DOTD on 60% Submittal • Refine design, including addressing comments from DOTD on previous submittal, update pay items, select standard traffic management plans and details, provide traffic management plan (if required) • Perform QA/QC in accordance with ISO 9001 Certification and requirements designated by Bridge Design and Evaluation Manual, Part I Chapter 3 • Prepare and submit: 95% Final Design Plans and Specifications, Construction Proposal Documents, Detailed Opinion of Probable Construction Costs

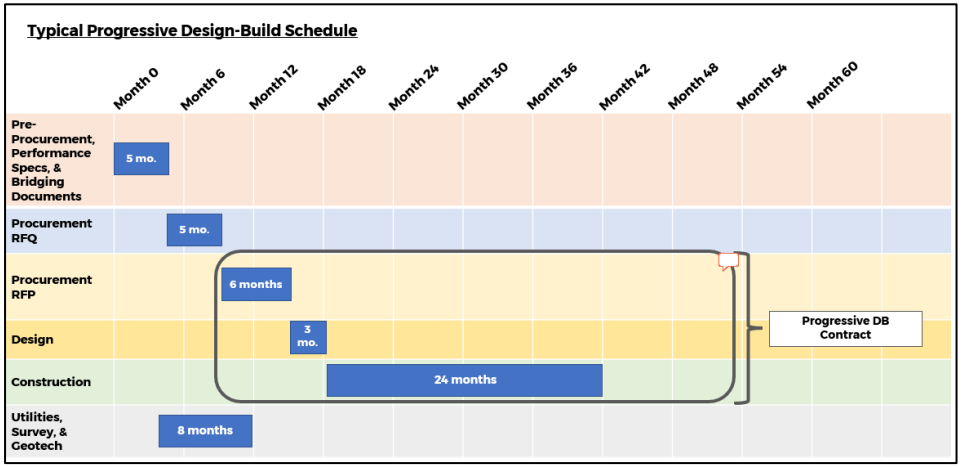
Final Plans (98%)	• Address comments received from the DOTD on 95% Submittal • If available, plan updates will address comments and design modifications to address FHWA comments • Perform QA/QC in accordance with ISO 9001 Certification and requirements designated by Bridge Design and Evaluation Manual, Part I Chapter 3 • Prepare and submit: 98% Finals Design Plans and Specifications, Construction Proposal Documents, Summary of Estimated Quantities, Final Opinion of Probable Construction Costs
Consultant's Project Delivery (100% Final Plans)	• Address comments received from the DOTD on 98% Submittal • Prepare and submit: 100% Final Design Plans and Specifications, Construction Proposal Documents, Summary of Estimated Quantities, Final Opinion of Probable Construction Costs
Construction Engineering Services	• Provide support and construction related engineering services for the duration of construction. • Attend a Pre-Construction Meeting, perform site inspections, attend a pre-final and final inspection. • Provide Monthly Reports to the DOTD PM • Coordination and communication with DOTD, Government Entities, utility companies, stakeholders, other ongoing projects • Review and approve Shop Drawings and Submittals • Process RFI's using DOTD Construction's standard RFI Form and maintain RFI Log • Perform Arc Flash Hazard Analysis per NFPA 70E • Review and verify Operation and Maintenance Manuals • Track the progress of As-Builts during Construction • Coordinate and attend Pre-Final and Final Inspections to verify completion of the work, including creating a punch list and recommending final acceptance

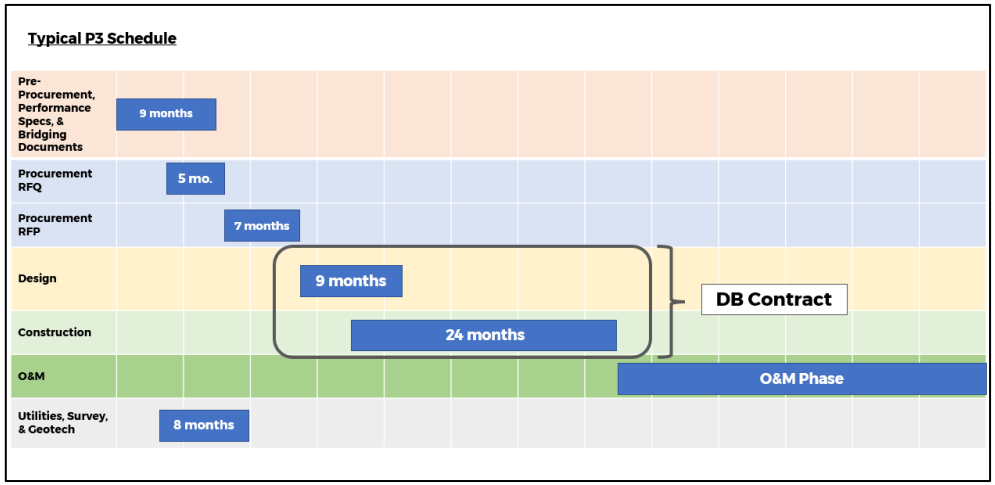
Typical Design-Bid-Build Schedule

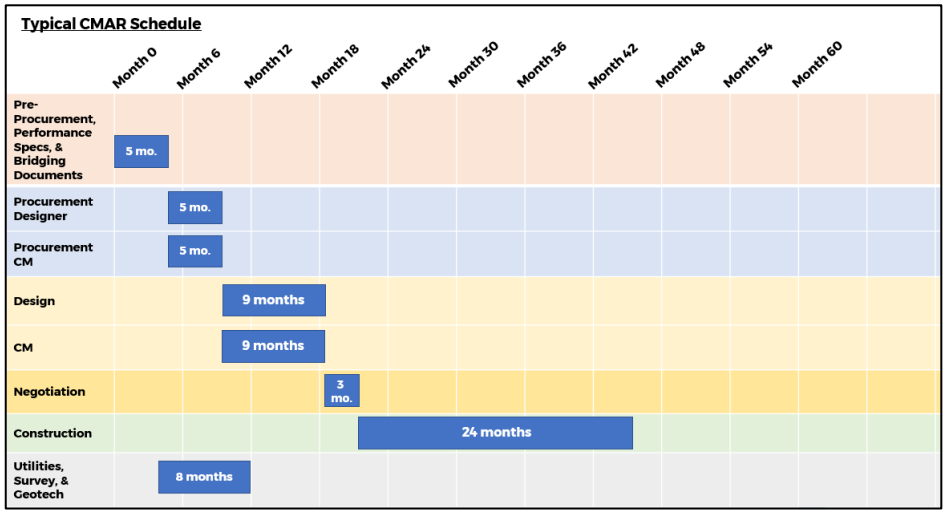


Prime consultant name: WSP USA Inc.









Prime consultant name: WSP USA Inc.

19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
WSP USA Inc.	Bridge	4400004763 / H.010253.5 *Supplement No.3*	Electrical & Mechanical C. & MECH. ENG. ON CALL TO9	$109,387
	Planning	4400017327 / H.003931.5	LADOTD P3 Advisory Services On-Call TO2	$40,552
		4400017327 / H.003931.5	LADOTD P3 Advisory Services On-Call TO2	$884,763
Arcadis US, Inc.	ITS	4400016811 / H.013868.5	ITS Program Management and Operations	$76,803
		4400016811 / H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I)	$87,991
		4400016811 / H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I)	$39,169
	Environmental	4400009703 / H.000688.2	US 11 Norfolk Southern Railroad	$3,008
		4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$876,959
		4400019338 / Multiple State Project Nos	Rural Bridge Replacement Initiative Phase II	$70,579
		4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road EA	$5,343
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$29,945
		4400025022 / H.015498.5 Recall 102225	Park Road Over Lagoon	$35,000
		4400009703 / H.000688.2	US 11 Norfolk Southern Railroad	$3,008
	Traffic	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$105,489
		4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$323,906
		4400019379 / H.013797	LA 30: EBR PL – I-10	$232,048
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$80,852
		4400023690 / H.015213.5	District 04 Pedestrian Safety Improvements	$34,749
		4400021325 / H.012837.5	I-10 New Orleans Master Plan	$106,363
	Road	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$288,507
		4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$199,957
		4400027361 / H.011220.6, H.012901.6, H.010634.6	US 90 Engineering Support	$289,346
		4400019010 / H.010116.5	LA 1088: Soult and Trinity Roundabouts	$33,307
		4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	$12,320
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$38,929
		4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$595,570
		4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$288,507

	Bridge	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Bridge Task Orders	$176,876
		4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$125,383
		4400021325 / H.015193.1	LA 22: Tchefuncte Bridge Feasibility	$139,534
	CE&I/OV	4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	$110,519
		4400025665 / H.013482.6	I-10 WBR Queue Warning System	$416,598
	Data Collection	4400021325 / H.012837.5	I-10 New Orleans Master Plan	$18,770
Gresham Smith	Traffic	4400005890 / H.012018.5	Lafayette Adaptive Traffic Signals	$4,453
		4400019871 / H.015086.5	LRSP/STRPPP LA 14	$13,158
	Road	4400019871 / H.013720.5	LRSP/STRPPP Bonner Street Bridge Pedestrian Improvements	$1,544
		4400019871 / H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$16,270
		4400019871 / H.015196.5	LRSP/STRPPP DeSoto Signing and Striping	$15,783
		4400026912 / H.014640	LRSP - St. Mary Parish	$112,646
		4400019871 / H.013714.5	LRSP/STRPPP Valhi Boulevard Shared Use Path Signing and Striping	$45,616
	Planning	4400021326 / H.010074.1	LA 70 at LA 3089 Stage 0	$81,798
	CE&I/OV/ITS	4400024424 / H.013256.6	I-10 Scott to Lake Charles ITS CEI	$14,458
Civil Design & Construction Inc.	Survey	H.011235.5	I-49 South @ Verot School Rd	60,809
Vectura Consulting Services, LLC	Traffic	4400017293 / H.010616	I-20: LA 544 Overpass Replacement	$74,429
		4400005484 / H.005168.2	New Orleans Rail Gateway Avondale EA	$92,995
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
		4400021519 / H.012030.5	KCS RR Overpasses HBI	$572
		4400023075 / H.013522	S. Lewis Street Widening	$7,499
		4400018271 / H.014746.5	LA 383 Stage 0 Corridor Study	$22,388
	CE&I	4400020018 / H.007160	EBR Computerized Traffic Signal, Ph VB	$33,910
	ITS	4400016364 / H.015136.4	Northshore Regional ITS Architecture Update	$11,421
		4400017922 / H.012845.1	C/AV Team and Working Group Support	$13,949
		44000020058 / H.011507.1	Monroe Phase 3 SEA	$29,217
Ardaman & Associates, Inc.	Geotech	H.004273	I-49 Connector, Lafayette	$497,533
		H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	$161,498
		H.004100	I-10: CMAR 30% Segment 1 Design	$51,017
		H.013897	I-10 / I-12 College Drive Flyover	$221,495
		H.004100.5-2	I-10: LA 415 to Essen Lane on I-10 & I-12	$10,652
		H.04435	I-12 to Bush LA 3241 (LA36-LA 435) Construction Phase	$47,956
		H.009266	I-10 (LA 73 to LA 30) Route I-10 Ascension Parish	$59,148
		H.002244.5	Boudreaux Canal Bridge (LA 56)	$160,589

Prime consultant name: **WSP USA Inc.**

		H.013284	MRB GBR LA 1 to LA 30 Connector	$413,477
		H.004647.6	I-20 Mississippi River Bridge at Vicksburg	$61,969
		H.015337, H.015452-63, H.015489-92, H.015341	Rural Bridge Replacement	$468,930
		H.012842.5	LA 124 Ext. Near Larto Lake	$61,539
		H.014265.5	N River Road Irving Branch	$20,447
		H.012533.5	LA 1252 Bayou Pt Brule Bridge	$36,674
A P S Engineering and Testing, LLC (DBE)	Geotech	4400091011/ H.001271.5	Retainer Contract for Geotechnical Services- Cane River Bridge	$133,758
		4400017262/ H.012027	I-20: Union Pacific RR Overpass	$61,644
		4400017262/ H.012545	Wiggins Bayou Bridge	$1,185
		4400091011/ H.015025.5	McLin Road Over Darling Creek	$13,365
		4400091011/ H.014992.5	McHugh Road Over Brushy Bayou	$37,500
		4400091011/ H.001271.5	Retainer Contract for Geotechnical Services- Cane River Bridge	$133,758
T2 UES, Inc. d/b/a T2 Utility Engineers	Survey	4400004128	I-49 Connector	$0
		H.004273.5	Belle Chasse Bridge & Tunnel Replacement	$40,263
Garver LLC	Planning	2000837056	Examination of Pre-Construction Process	$39,250

20. Certifications/Licenses:

If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank.**

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

WSP USA Inc.

Public Address:

One Penn Plaza, 4th Floor

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000623	Active	09/26/1984	03/31/2026	Mrs. Rebecca Davezac Howell # PE.0042559

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

Ms. Sallye Elizabeth Perrin

License/Certificate Type - Number: PE.0027847
Expiration Date: 03/31/2026
Status: Active

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9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ian James Chaney

License/Certificate Type - Number: PE.0042288
Expiration Date: 09/30/2024
Status: Active

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Mr. Lloyd Mark Pearson

License/Certificate Type - Number: PE.0039629
Expiration Date: 09/30/2025
Status: Active

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Ms. Lisa Rodriguez Fruge

License/Certificate Type - Number: PE.0033281
Expiration Date: 09/30/2025
Status: Active

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Mr. Michael Warren Craig

License/Certificate Type - Number: PE.0041964
Expiration Date: 03/31/2026
Status: Active

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Mr. Hatem Mohamed Seliem Ph.D.

License/Certificate Type - Number: PE.0039759
Expiration Date: 09/30/2025
Status: Active

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Baton Rouge, LA 70809
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Mr. Arunava Saha

License/Certificate Type - Number	Expiration Date
PE.0038334	03/31/2026

Status: Active

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
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Baton Rouge, LA 70809
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Ms. Ashwini Kashelikar

License/Certificate Type - Number	Expiration Date
PE.0043642	03/31/2026

Status: Active

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(LAPELS)
9643 Brookline Avenue, Suite 121
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Mr. Md Nafiul Haque

License/Certificate Type - Number	Expiration Date
PE.0046514	09/30/2024

Status: Active

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

Mr. Carlos Andres Campo Osorio

License/Certificate Type - Number	Expiration Date
PE.0044313	09/30/2024

Status: Active

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

Mrs. Rebecca Davezac Howell

License/Certificate Type - Number	Expiration Date
PE.0042559	09/30/2024

Status: Active

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Hatem Seliem
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

8/7/2020 to 8/7/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Prime consultant name: WSP USA Inc.

National Highway Institute

Certificate of Training

Michael Craig

has participated in

BINS Workshop-013099

hosted by

North Carolina Department of Transportation

Date: October 11, 2011
Location: Raleigh, NC

Hours of Instruction: 6.5

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Michael Craig

has participated in

FHWA-NHI-134029 Bridge Maintenance Training

hosted by

WSP GROUP

Date: October 1-4, 2013
Location: Charlotte, NC

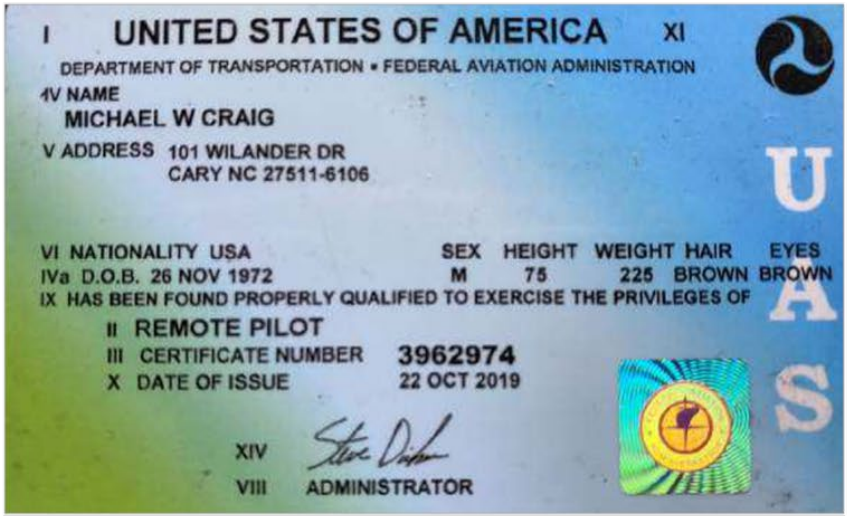
Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



I UNITED STATES OF AMERICA XI

DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION

4V NAME
MICHAEL W CRAIG

V ADDRESS 101 WILANDER DR
CARY NC 27511-6106

VI NATIONALITY USA

SEX	HEIGHT	WEIGHT	HAIR	EYES
M	75	225	BROWN	BROWN

IVa D.O.B. 26 NOV 1972

IX HAS BEEN FOUND PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF

II REMOTE PILOT

III CERTIFICATE NUMBER 3962974

X DATE OF ISSUE 22 OCT 2019

XIV

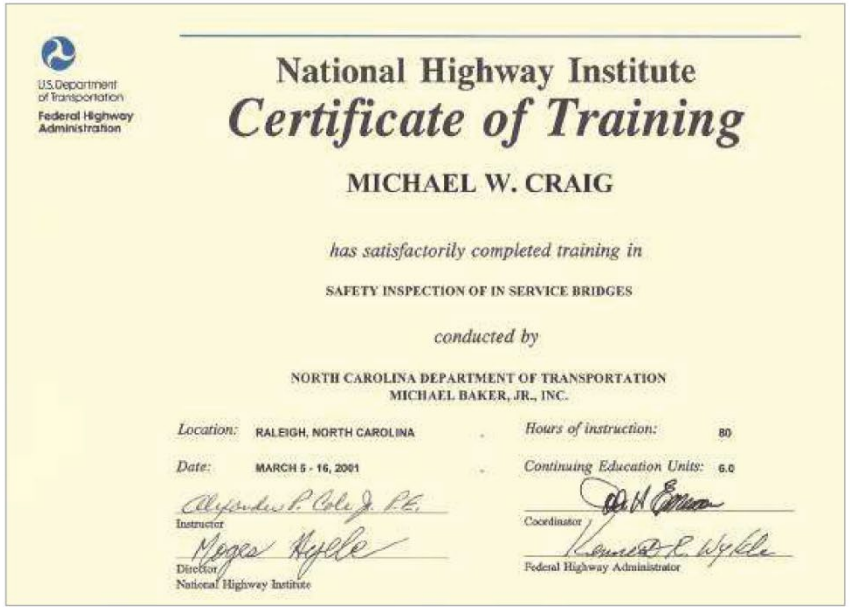
VIII ADMINISTRATOR

U

A

S

Prime consultant name: WSP USA Inc.



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

MICHAEL W. CRAIG

has satisfactorily completed training in

SAFETY INSPECTION OF IN SERVICE BRIDGES

conducted by

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
MICHAEL BAKER, JR., INC.

Location: RALEIGH, NORTH CAROLINA
Hours of instruction: 80

Date: MARCH 5 - 16, 2001
Continuing Education Units: 6.0

Alexander P. Cole Jr. P.E.
Instructor

Coordinator

Megan Hyde
Director
National Highway Institute

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Michael Craig

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

WSP

Date: January 10-12, 2023
Location: Raleigh, NC

Hours of Instruction: 18

Instructor

Local Coordinator

Instructor

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI

Certificate of Training

Michael Craig

has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Parsons Brinckerhoff

Date: Oct 06-09, 2015
Location: Lawrenceville, NJ

Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI

Certificate of Training

Michael Craig

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016
Location: Herndon, VA

Hours of Instruction: 11

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

Prime consultant name: WSP USA Inc.

Arcadis Certifications

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Arcadis U.S., Inc.	630 Plaza Drive, Suite 200

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002808	Active	05/14/2002	09/30/2024	Mr. David Robert Gerdeman # PE.0043144 ; Mr. David Lorie Fulks II # PE.0030151 ; Mr. David Robert Escude' # PE.0023071 ; Ms. Dana Anne Lawton # PE.0025872 ; Mr. Peter William McMaster # PE.0026948

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

Mr. Akhilendra Singh Chauhan

License/Certificate Type - Number	Expiration Date
PE.0033703	09/30/2024

Status: Active

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Project Management Institute

This is to certify that

Akhilendra S Chauhan

has been formally evaluated for demonstrated experience, knowledge and skills to lead and direct project teams and is hereby bestowed the global credential

Project Management Professional

In testimony whereof, we have subscribed our signatures under the seal of the Institute.

PMP® Number 1444676
PMP® Original Grant Date 16 August 2011
PMP® Expiration Date 15 August 2014

Transportation Professional Certification Board Inc.

certifies that

Akhilendra Singh Chauhan

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Unless withdrawn by the Certification Board this certificate number 2544 issued in Washington, D.C. is subject to the provisions for renewal

November 24, 2008

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

Transportation Professional Certification Board Inc.

certifies that

Akhilendra Singh Chauhan

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

PROFESSIONAL TRANSPORTATION PLANNER

Unless withdrawn by the Certification Board this certificate number 246 issued in Washington, D.C. is subject to the provisions for renewal

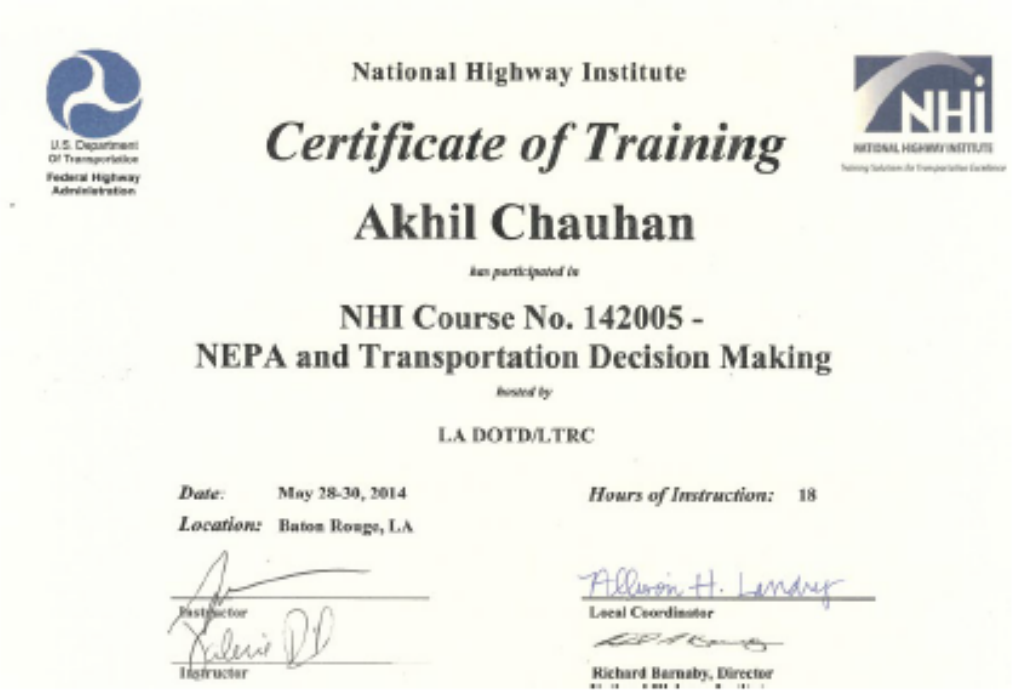
December 1, 2009

Steven D. Hofener
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER

Executive Director

Prime consultant name: WSP USA Inc.



National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

NHI Course No. 142005 -
NEPA and Transportation Decision Making

hosted by

LA DOTD/LTRC

Date: May 28-30, 2014 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor

Instructor

Allison H. Landry
Local Coordinator

Richard Barnaby, Director

National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

FHWA - NHI Course No. 380071 -
Interactive Highway Safety Design Model (IHSDM)

hosted by

Louisiana Department of Transportation and Development

Date: May 9-10, 2012 *Hours of Instruction:* 12

Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Akhilendra Chauhan

has participated in

NHI Course No. 380075 –
New Approaches to Highway Safety Analysis

hosted by

LA DOTD/LTRC

Date: October 9-11, 2012 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor

Instructor

Allison H. Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

Prime consultant name: WSP USA Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

AKHIL CHAUHAN

has participated in

FHWA-NHI-133121 Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date: August 16-17, 2017
Location: Baton Rouge, LA

Hours of Instruction: 11

Instructor

Instructor

Allison H. Landry
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

FHWA - NHI Course No. 133078
Access Management, Location and Design (3 day)

hosted by

LA DOTD/LTRC

Date: January 6-8, 2015
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Instructor

Allison H. Landry
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

Certificate of Completion

presented to

Akhil Chauhan

for completing the

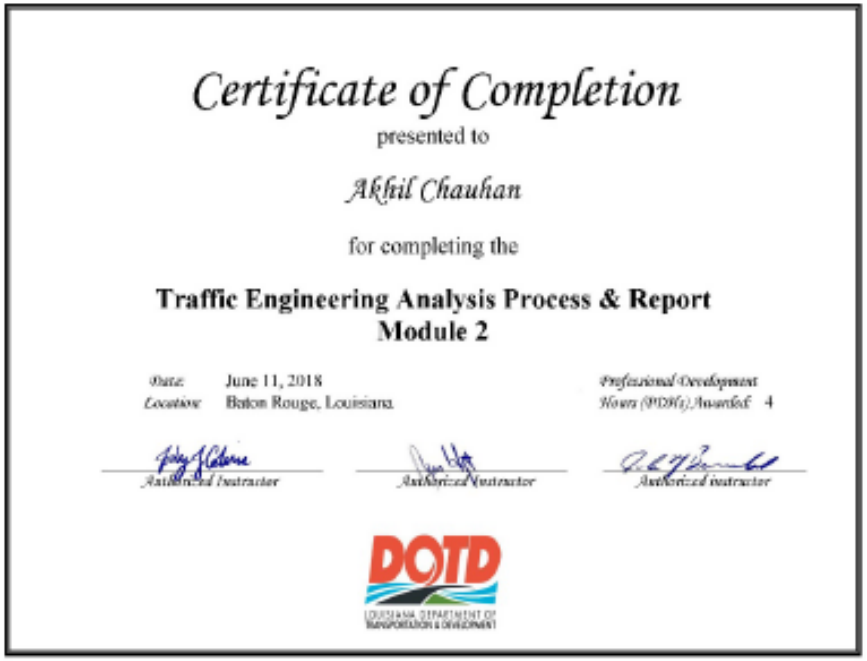
Traffic Engineering Analysis Process & Report
Module 1

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

Akhil Chauhan

for completing the

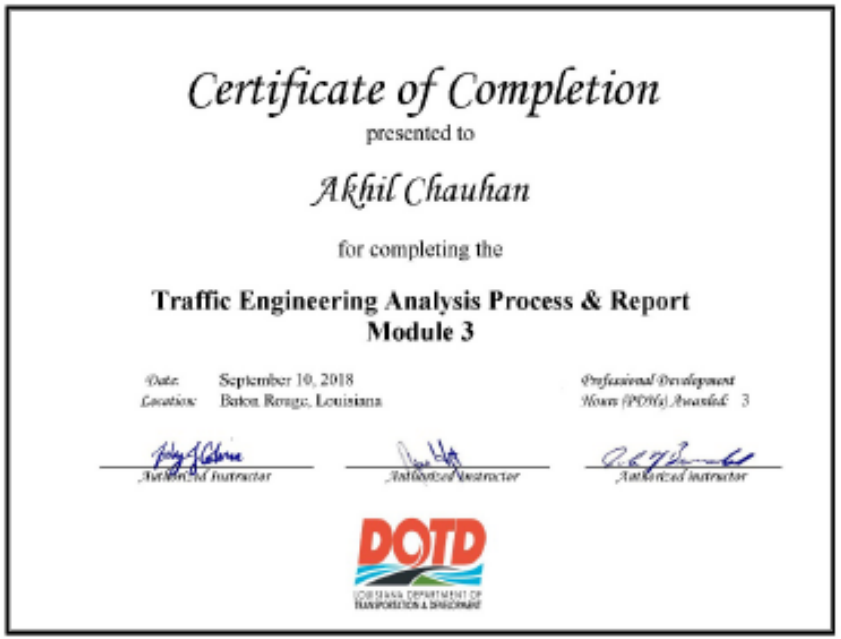
Traffic Engineering Analysis Process & Report
Module 2

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

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

CERTIFICATE OF COURSE COMPLETION

This certifies that *Akhilendra Chauhan* has completed

SIDRA INTERSECTION 6
ROUNDABOUT ANALYSIS WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 12th & 13th, 2013

Howard McCulloch

Howard McCulloch, NE ROUNDABOUTS

CERTIFICATE OF COURSE COMPLETION

This certifies that *Akhil Chauhan* has completed

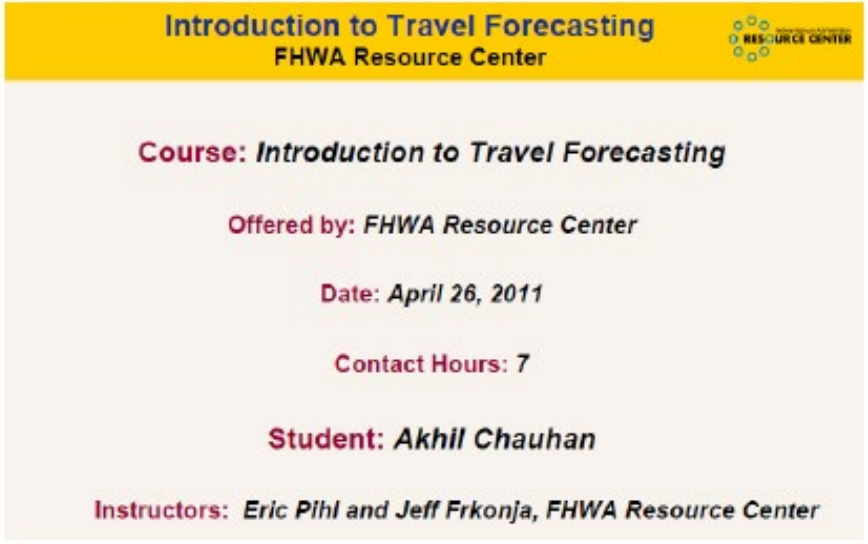
ROUNDABOUT DESIGN WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 10th & 11th, 2013

Howard McCulloch

Howard McCulloch, P.E., NE ROUNDABOUTS



Introduction to Travel Forecasting
FHWA Resource Center

Course: *Introduction to Travel Forecasting*

Offered by: *FHWA Resource Center*

Date: *April 26, 2011*

Contact Hours: *7*

Student: *Akhil Chauhan*

Instructors: *Eric Pihl and Jeff Frkonja, FHWA Resource Center*

Prime consultant name: WSP USA Inc.

Certificate of Training

PRESENTED BY

Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Akhil Chauhan

HAS SATISFACTORILY COMPLETED 7 PROFESSIONAL DEVELOPMENT HOURS IN:

Louisiana's Complete Streets Peer Exchange

Director of Louisiana LTAP Center

January 19-20, 2016
Date

Baton Rouge, Louisiana
Location

Certificate of Attendance

USING STATISTICS IN HIGHWAY SAFETY

PRESENTED BY

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

TO CERTIFY THAT

Akhil Chauhan

HAS SATISFACTORILY COMPLETED 6 HOURS OF TRAINING

Dr. Helmut Schneider
Director
Highway Safety Research Group

CERTIFICATE OF PARTICIPATION

IS GIVEN TO

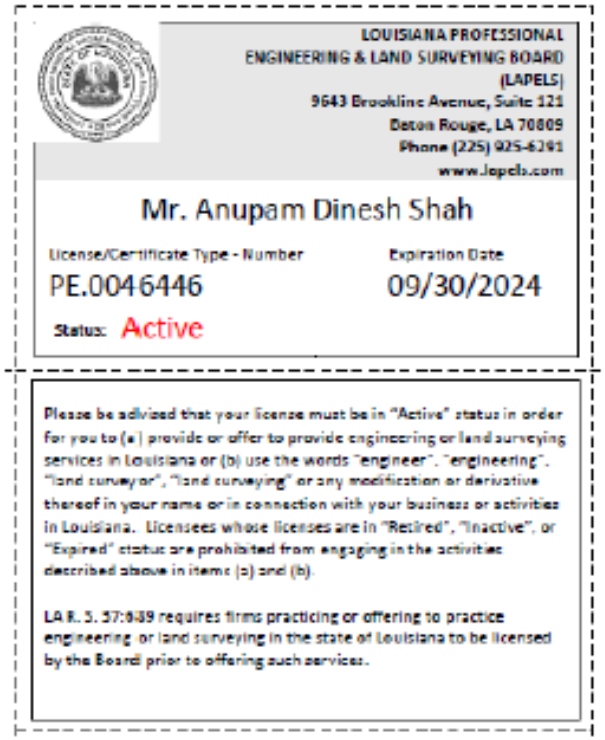
Akhil Chauhan

for having participated in Louisiana's Local Road Safety Peer Exchange

on September 10-11, 2015 in Baton Rouge, Louisiana

DORTHA F. CUMMINS
Director, Louisiana Center for Transportation Safety

Prime consultant name: WSP USA Inc.



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

Mr. Anupam Dinesh Shah

License/Certificate Type - Number: PE.0046446
Expiration Date: 09/30/2024
Status: Active

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

STATE OF GEORGIA
BRAD RAFFENSPERGER, Secretary of State
State Board of Registration for Professional Engineers and Land Surveyors
LICENSE NO. SE000835
Anupam Shah
5110 Golden Leaf Court
Ellicott City MD 21043
Structural Engineer

EXP DATE - 12/31/2024 Status: Active
Issue Date: 02/11/2021

Prime consultant name: WSP USA Inc.

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

Mr. Ari J. Deitch

License/Certificate Type - Number	Expiration Date
PE.0041842	03/31/2026

Status: Active

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 690 issued in Washington, DC, USA
07/17/2019

Diane Morabito
Chair

PTP
PROFESSIONAL TRANSPORT PLANNER

Jeffrey F. Paniati
Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Ari Deitch
has attended
Traffic Control Technician-LA State Specific
Training Course

12/4/2018 to 12/4/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Ari Deitch
has attended
Traffic Control Supervisor-LA State Specific
Training Course

12/5/2018 to 12/6/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Prime consultant name: **WSP USA Inc.**

Certificate of Professional Development Hours
presented to
Ari Deitch
for attending the
Highway Safety Manual Workshop
12 PDHs
on
May 2-3, 2013 Baton Rouge, Louisiana
Authorized By

Research, Technology Transfer, Education and Training

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4346 issued in Washington, DC, USA

11/20/17

Michael K. Park
Chair

PTOE Professional Traffic Operations Engineer

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Ari Jacob Deitch

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 87 issued in Washington, DC, USA
12/21/2018

Diane W. Murabito
Chair

RSP Road Safety Professional

Jeffrey F. Paniati
Executive Director

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

ARI DEITCH

has participated in

FHWA-NHI-133121 Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date: *August 16-17, 2017*
Location: *Baton Rouge, LA*

Hours of Instruction: 11

Instructor

Instructor

Allison H. Landry
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

NHI National Highway Institute

Certificate of Completion

presented to

Ari Deitch

for completing the

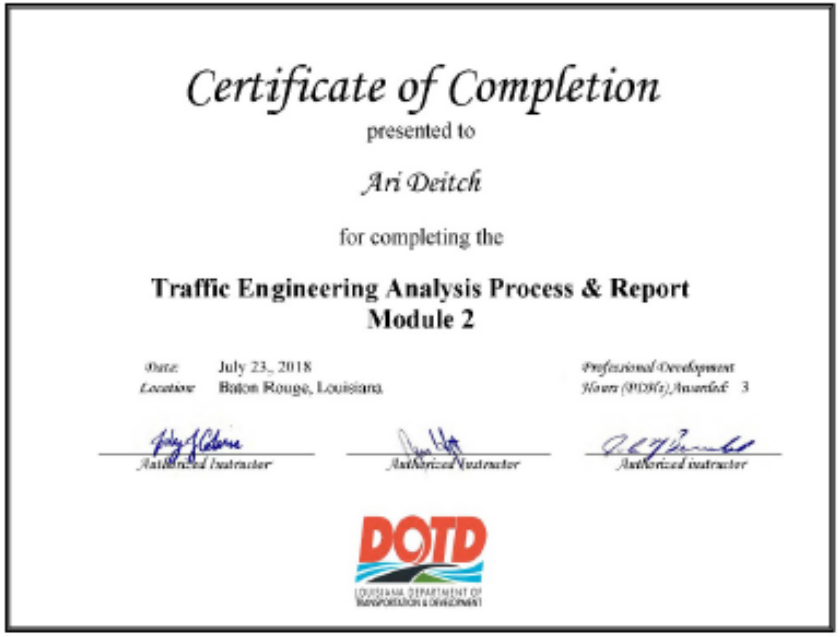
Traffic Engineering Analysis Process & Report
Module 1

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

Ari Deitch

for completing the

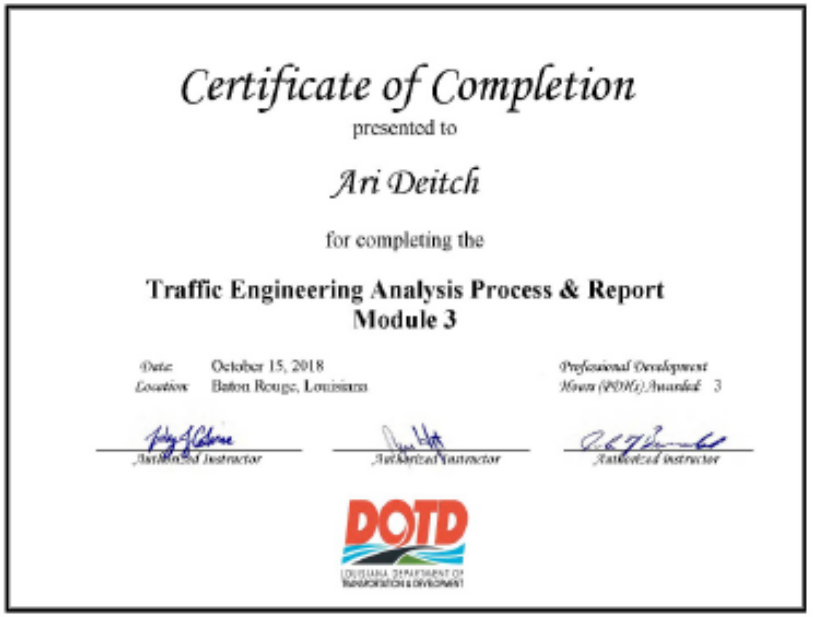
Traffic Engineering Analysis Process & Report
Module 2

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

Ari Deitch

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

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/8/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Kester Berk Hollier
641 Hancock Street
Gretna, Louisiana 70053-2119

Cut Here

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

Mr. Kester Berk Hollier

License/Certificate Type - Number: PE.0034304

Expiration Date: 03/31/2025

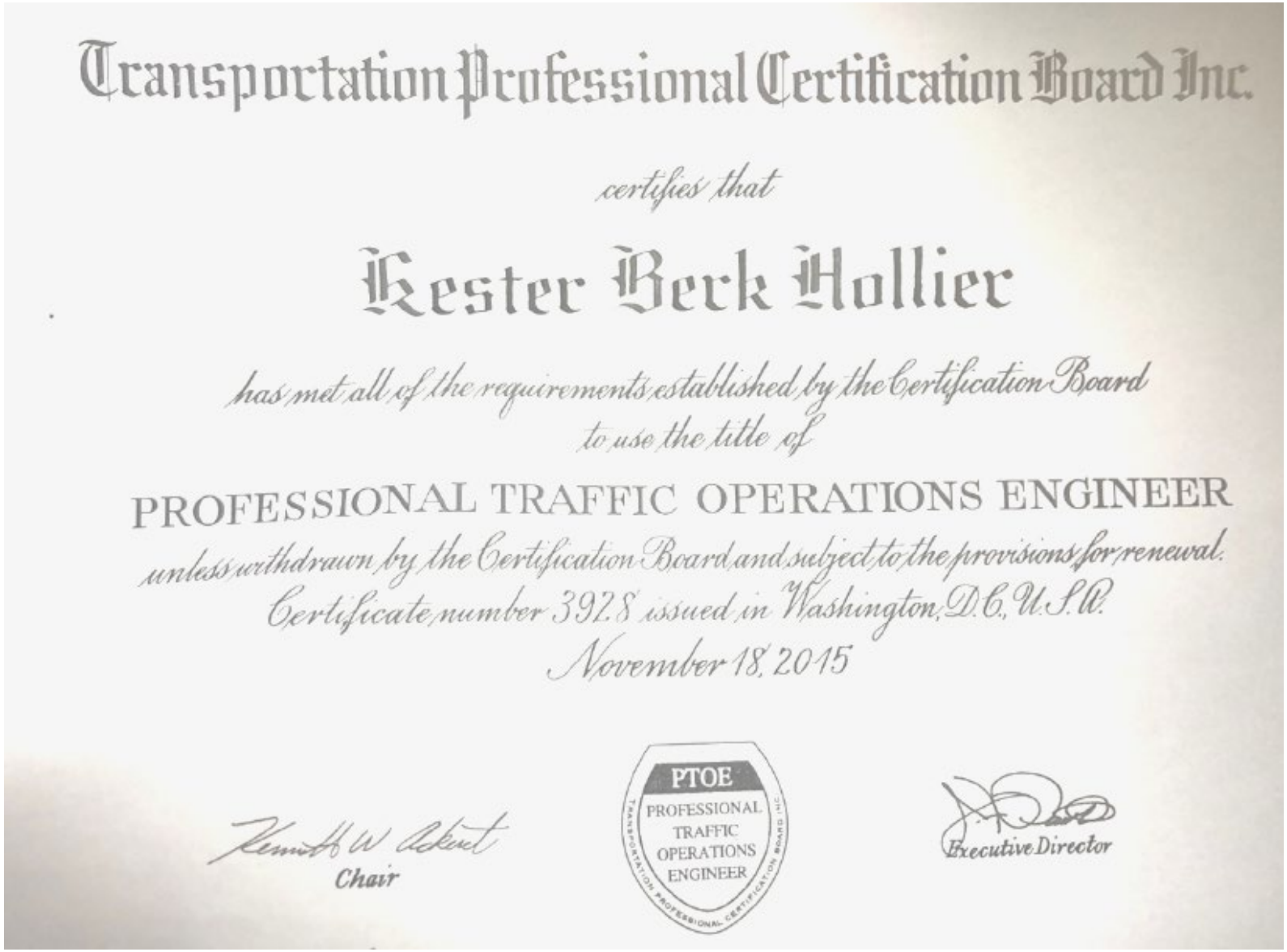
Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Prime consultant name: WSP USA Inc.



Transportation Professional Certification Board Inc.

certifies that

Kester Berk Hollier

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

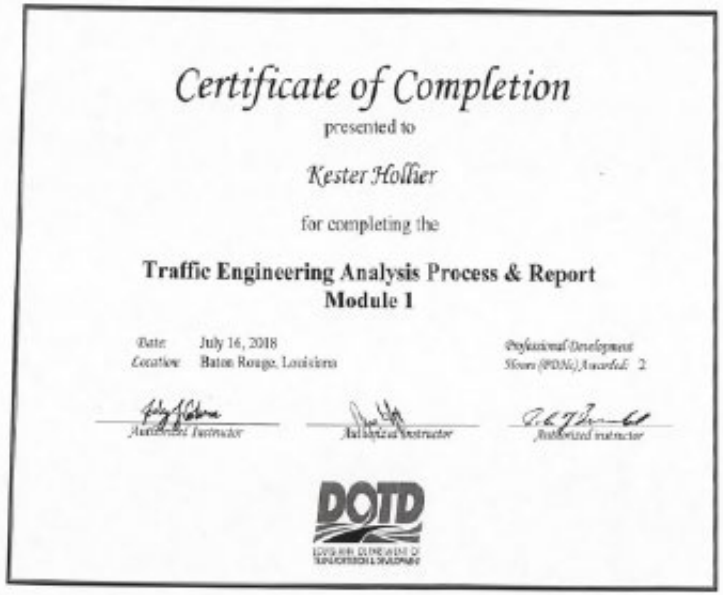
unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3928 issued in Washington, D.C., U.S.A.
November 18, 2015

Kenneth W Ackert
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

Prime consultant name: **WSP USA Inc.**



Certificate of Completion

presented to

Kester Hollier

for completing the

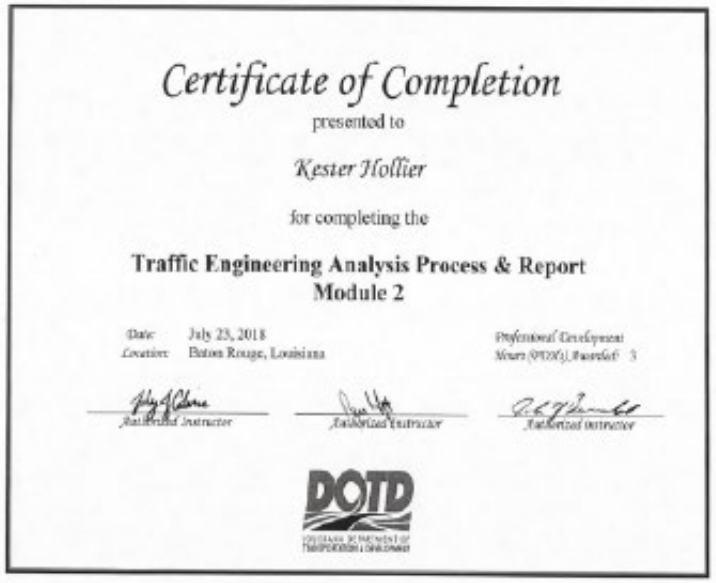
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD



Certificate of Completion

presented to

Kester Hollier

for completing the

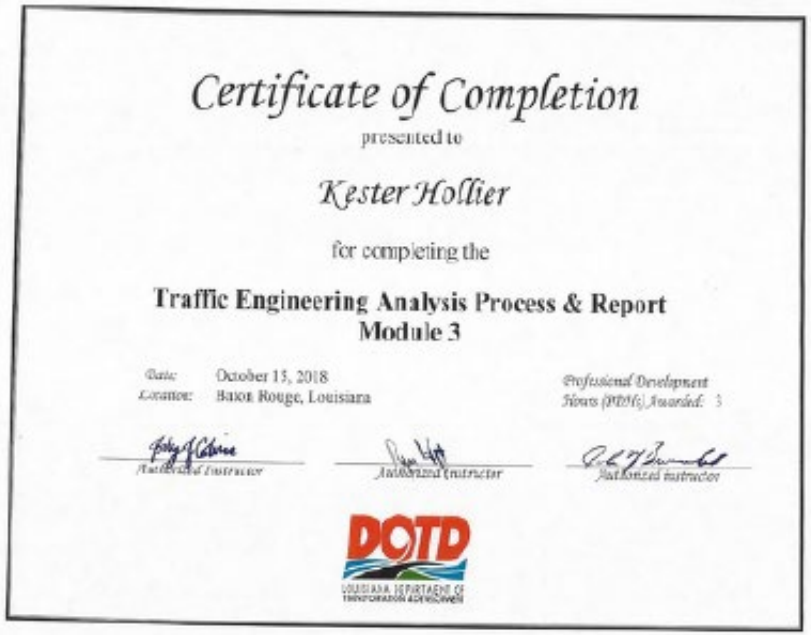
Traffic Engineering Analysis Process & Report
Module 2

Date: July 25, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD



Certificate of Completion

presented to

Kester Hollier

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

Prime consultant name: WSP USA Inc.

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

Mr. Jose Luis Rodriguez

License/Certificate Type - Number	Expiration Date
PE.0030492	03/31/2025

Status: Active

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jose L Rodriguez
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

11/1/2019 to 11/1/2019
Date

New Orleans, LA
Location

Vice President of Member Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Prime consultant name: WSP USA Inc.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/5/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Victor A. Sanchez Nivar

License/Certificate Type - Number: PE.0033976

Expiration Date: 09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/4/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Osama Abdel Halim Shahawy

License/Certificate Type - Number: PE.0035652

Expiration Date: 09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

University of Nevada, Reno
Heritage Resources Management Program

This will verify that

Jan Grenfell

has successfully completed

Introduction to Section 106 Review

New Orleans, Louisiana
July 17-18, 2001

Associate Vice President & Dean, College of Extended Studies

Instructor

Instructor

Program Director

U.S. Department Of Transportation
Federal Highway Administration

NHI

National Highway Institute

Certificate of Training

Jan Grenfell

has participated in

Fundamentals of Title VI/Environmental Justice

hosted by

LA DOTD/LTRC

Location: Baton Rouge, LA

Date: June 14 – 15, 2006

Hours of instruction: 12

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional and Corporate Development
Federal Highway Administration

The

WETLAND BIOGEOCHEMISTRY INSTITUTE

of

LOUISIANA STATE UNIVERSITY

and Agricultural and Mechanical College

Certifies that

Jan Grenfell

has successfully completed

Wetland Delineation Training Workshop

This training has been based in part on the U.S. Army Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (1987 Manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.

May 26, 2000

Granted on

Instructor

Instructor

Instructor

Prime consultant name: WSP USA Inc.

National Highway Institute

Certificate of Training

Jan Grenfell

has participated in

NHI Course No. 142049 – Beyond Compliance: Historic Preservation in Transportation Project Development

hosted by

LA DOTD/LTRC

Date: January 29-31, 2013 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

The
Louisiana Department of Transportation and Development
and
U.S. Fish & Wildlife Service

Certify that

JAN GRENFELL

has successfully completed

Endangered Species Act -
Section 7 Consultation Process

ETRN No: **4-2536A**

Held on July 22, 2004

and has been awarded **5.0** *Professional Development Hours*

Kenneth Perrel
Assistant Secretary Planning and Programming

Vincent Russo, Jr.
Environmental Program Administrator

National Highway Institute

Certificate of Training

Jan Grenfell

has participated in

Federal-Aid Highways - 101 (State Version)

hosted by

LADOTD / LTRC

Location: Baton Rouge, LA *Hours of instruction:* 12

Date: June 27 - 28, 2005

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional and Corporate Development
Federal Highway Administration

Prime consultant name: WSP USA Inc.

Gresham Smith Certifications

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Gresham Smith	Mr. Carl B. Munkel222 Second

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003429	Active	03/16/2006	09/30/2024	Mr. Herbert Eugene Moore II # PE.0031065

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

Mr. Herbert Eugene Moore II

License/Certificate Type - Number
PE.0031065

Expiration Date
09/30/2024

Status: Active

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

Trafficware
Engineered by Naztec

April 6, 2016

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

Subject: Trafficware Certification

Mr. Bert Moore,

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

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

Sincerely,

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

Mr. Julian Van Bordelon

License/Certificate Type - Number	Expiration Date
PE.0047473	09/30/2025

Status: Active

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Julian Bordelon

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT


CERTIFIED PUBLIC SAFETY TECHNICIAN
IMSA
Julian Van Bordelon
is hereby certified as a
Traffic Signal Technician Level I
by completing all requirements and examination for certification
on 10/21/2022
Valid thru 10/21/2025
Certification #AA_127201
Toby Cummings, CAE - Executive Director


CERTIFIED PUBLIC SAFETY TECHNICIAN
IMSA
Julian Van Bordelon
is hereby certified as a
Work Zone Temporary Traffic Control Technician
by completing all requirements and examination for certification
on 10/18/2022
Valid thru 10/18/2025
Certification #ZZ_127201
Toby Cummings, CAE - Executive Director


ATSSA TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Julian Bordelon
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course
2/10/2023 to 2/10/2027
Training Valid Through
Baton Rouge, LA
Location
Vice President of Education and Technical Services
President, CEO
ATSSA
American Traffic Safety Services Association ATSSA.com


Certificate of Training
this certifies that
Julian Bordelon
has successfully completed the training
program requirements for
Online Flagger Certification Training Course
Awarded on this 29th day of January 2020

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

Ms. Christina Marie Florez

License/Certificate Type - Number
PE.0038799

Expiration Date
09/30/2024

Status: Active

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

ATSSA
SAFER ROADS SAVE LIVES

American Traffic Safety Services Association

This is to affirm that

Christina Florez

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 6/13/2022

Exp. Date 6/12/2026

State Issued LA

ATSSA
Instructor Name

Instructor Signature

A1000079590

Verify at Flagger.com

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

Mr. Brennon Gilbert Hughes

License/Certificate Type - Number
PE.0039985

Expiration Date
03/31/2026

Status: Active

Certificate of Attendance

presented to

Brennon Hughes

for attending

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

16 Professional Development Hours

June 5-6, 2018

Baton Rouge, Louisiana

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

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

8/5/2022 to 8/5/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Training

PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Brennon Hughes

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

Safety of Vulnerable Road Users Workshop

Director, LTAP

LTAP

August 22nd, 2023
Date

New Orleans, Louisiana
Location

Prime consultant name: WSP USA Inc.

American Wick Drain Corporation
1209 Airport Road
Monroe, NC 28110
PH: 800.242.9425
FX: 704.296.0690

The individual named below attended the continuing education program as described.

Name:	Brennon Hughes		Registration #: 39985	State: LA
Organization:	Gresham Smith + Partners			
Address:	1000 Perkins Rowe Suite 280			
City /ST / Zip:	Baton Rouge, LA 70810			
Course Date:	5/15/2018			
Title Of Registered Course	**Contact Hours**	**Provider Name**	**Format**	**Content Development Resources**
Geocomposite Drains in Civil Design	1 hour	American Wick Drain Corporation	Lecture	
Covers Health, Safety and Welfare	**Professional Development**	**Course Number**	**Grade Received (if exam used)**	**Material Resources**
Yes	1 hour	AWD-007		PowerPoint Presentation

Learning Objectives:
The attendee will learn the differences between conventional drainage design with pipe and how its performance compares to designing with geocomposites. The course will cover the history of geocomposites for drainage, the basic principles of drainage design, the installation methods and various drainage applications. Topics discussed will include soil permeability, soil weight and lateral earth pressure and the overall effect drainage has on the design approach. Applications discussed will include landscape area, planting beds, retaining walls, green roofs and sports fields. The appropriate product for each application will be presented for commonly encountered soil types in most geographical areas. Attendees should expect to understand basic drainage principles, and be able to choose and specify a geocomposite drainage design for most common civil design applications.

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

Mrs. Rebecca L. Murray

License/Certificate Type - Number	Expiration Date
PE.0043788	03/31/2026

Status: Active

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

Prime consultant name: WSP USA Inc.

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

Training & Products Dept. Director

President, CEO

THE LEAGUE OF AMERICAN BICYCLISTS

hereby makes it known that

Rebecca Murray

has successfully completed the Smart Cycling course, practiced cycling for hours and miles upon the road, has demonstrated proficiency by practical and written examination and therefore, has earned this certificate of completion of

SMART CYCLING

Instructor and LCI Number

Date

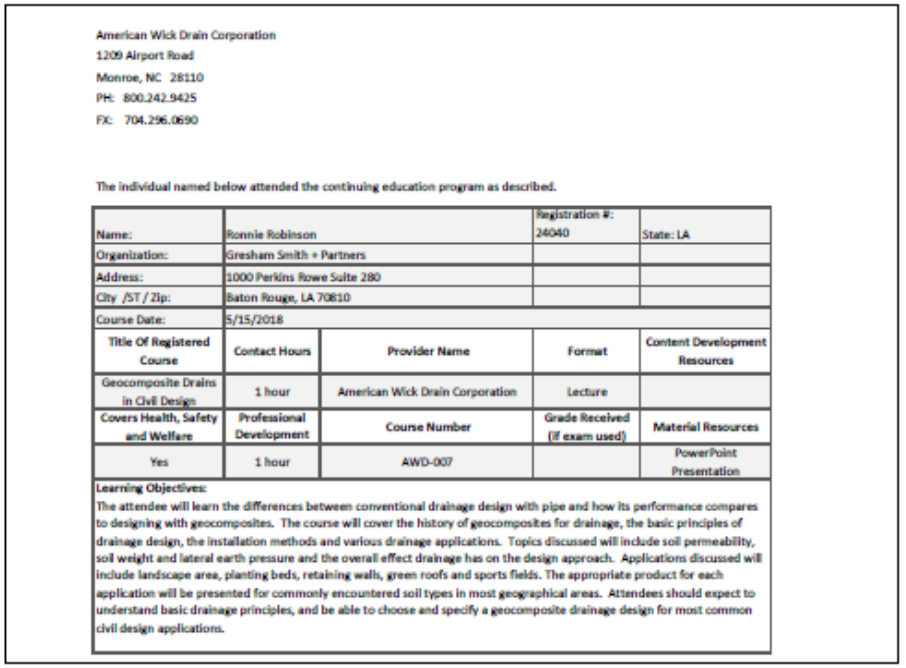
LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ronnie Lee Robinson

License/Certificate Type - Number
PE.0024040

Expiration Date
03/31/2026

Status: Active

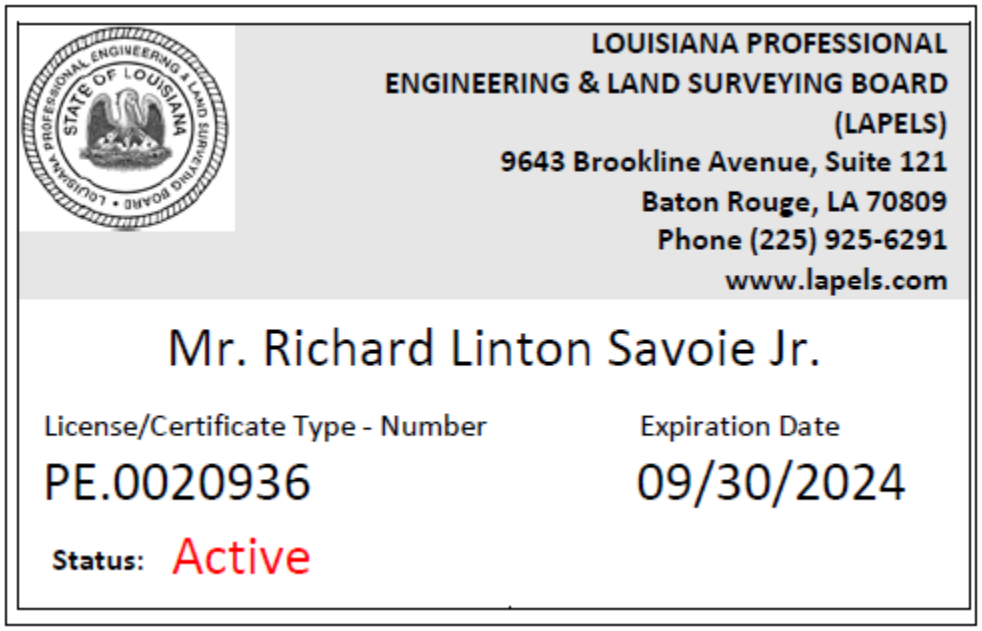


American Wick Drain Corporation
1209 Airport Road
Monroe, NC 28110
PH: 800.242.9425
FX: 704.296.0690

The individual named below attended the continuing education program as described.

Name:	Ronnie Robinson		Registration #: 24040	State: LA
Organization:	Gresham Smith + Partners			
Address:	1000 Perkins Rowe Suite 280			
City /ST / Zip:	Baton Rouge, LA 70810			
Course Date:	5/15/2018			
Title Of Registered Course	**Contact Hours**	**Provider Name**	**Format**	**Content Development Resources**
Geocomposite Drains in Civil Design	1 hour	American Wick Drain Corporation	Lecture	
Covers Health, Safety and Welfare	**Professional Development**	**Course Number**	**Grade Received (if exam used)**	**Material Resources**
Yes	1 hour	AWD-007		PowerPoint Presentation

Learning Objectives:
The attendee will learn the differences between conventional drainage design with pipe and how its performance compares to designing with geocomposites. The course will cover the history of geocomposites for drainage, the basic principles of drainage design, the installation methods and various drainage applications. Topics discussed will include soil permeability, soil weight and lateral earth pressure and the overall effect drainage has on the design approach. Applications discussed will include landscape area, planting beds, retaining walls, green roofs and sports fields. The appropriate product for each application will be presented for commonly encountered soil types in most geographical areas. Attendees should expect to understand basic drainage principles, and be able to choose and specify a geocomposite drainage design for most common civil design applications.



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

Mr. Richard Linton Savoie Jr.

License/Certificate Type - Number
PE.0020936

Expiration Date
09/30/2024

Status: Active

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

Mr. John Steven Weres

License/Certificate Type - Number
PE.0036429

Expiration Date
09/30/2025

Status: Active

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

John Weres
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA

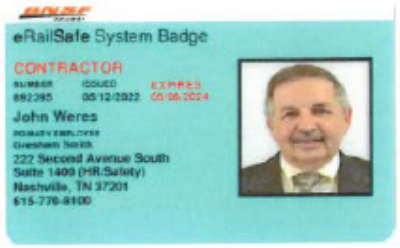
American Wick Drain Corporation
1209 Airport Road
Monroe, NC 28110
PH: 800.242.9425
FX: 704.296.0690

The individual named below attended the continuing education program as described.

Name:	John Weres	Registration #: 36429	State: LA
Organization:	Gresham Smith + Partners		
Address:	1000 Perkins Rowe Suite 280		
City /ST / Zip:	Baton Rouge, LA 70810		
Course Date:	5/15/2018		

Title Of Registered Course	Contact Hours	Provider Name	Format	Content Development Resources
Geocomposite Drains in Civil Design	1 hour	American Wick Drain Corporation	Lecture	
Covers Health, Safety and Welfare	**Professional Development**	**Course Number**	**Grade Received (If exam used)**	**Material Resources**
Yes	1 hour	AWD-007		PowerPoint Presentation

Learning Objectives:
The attendee will learn the differences between conventional drainage design with pipe and how its performance compares to designing with geocomposites. The course will cover the history of geocomposites for drainage, the basic principles of drainage design, the installation methods and various drainage applications. Topics discussed will include soil permeability, soil weight and lateral earth pressure and the overall effect drainage has on the design approach. Applications discussed will include landscape area, planting beds, retaining walls, green roofs and sports fields. The appropriate product for each application will be presented for commonly encountered soil types in most geographical areas. Attendees should expect to understand basic drainage principles, and be able to choose and specify a geocomposite drainage design for most common civil design applications.



Prime consultant name: WSP USA Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

Kansas Department of Transportation

Date: February 2-13, 2015
Location: Topeka, Kansas
Hours of Instruction: 67

Instructor
Instructor
Local Coordinator
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

Kansas Department of Transportation

Date: February 2-13, 2015
Location: Topeka, Kansas
Hours of Instruction: 67

Instructor
Instructor
Local Coordinator
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

JOHN WERES

has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

LA DOTD/LTRC

Date: February 26 – March 1, 2019
Location: Baton Rouge, LA
Hours of Instruction: 25

Instructor
Instructor
Local Coordinator
Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130091B Underwater Bridge Repair, Rehabilitation, and Countermeasures

hosted by

Texas Department of Transportation

Date: July 17 –18, 2018
Location: Fort Worth, TX
Hours of Instruction: 14

Instructor
Instructor
Local Coordinator
Valerie Briggs, Director
National Highway Institute

Prime consultant name: WSP USA Inc.

Operator Training Certificate

This is to certify that

JOHN WERES

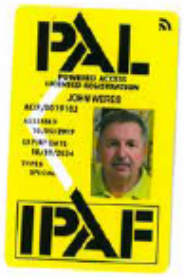
has successfully achieved the high standards required for the operation of the following aerial work platforms

Special (SPECIAL)

Certificate No:
AOP/0019102

Date Issued:
18/10/2019

Expiry Date:
31/10/2024



Training Center where the course was conducted

AMP Sales and Services LLC

IPAF.org
The world authority in powered access

www.ipaf.org

Mead & Hunt

In cooperation with the
Louisiana Department of Transportation & Development
presents this

Certificate of attendance and participation for:

John S. Weres

Training Course:
Maintenance and Rehabilitation of Historic Bridges

Transportation Training and Education Center
4099 Gourrier Avenue, Room 179
Baton Rouge, Louisiana 70808

Please select the date you attended the course:

- ☐ Tuesday, April 12, 2016
- ☐ Wednesday, April 13, 2016
- ☐ Tuesday, May 10, 2016
- ☐ Wednesday, May 11, 2016
- ☒ Tuesday, July 12, 2016
- ☐ Wednesday, July 13, 2016

You have earned 8 PDH units that can be applied to applicable continuing education requirements for professional engineering licensure.

Mead & Hunt Instructor
Amy Squitieri

Mead & Hunt Instructor
Darrell Berry, PE, SE

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

JOHN WERES

has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

LA DOTD/LTRC

Date: *February 26 – March 1, 2019* *Hours of Instruction:* 25
Location: *Baton Rouge, LA*

Instructor

Instructor

Allison H Landry
Local Coordinator

Michael Davies
Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130092 Load and Resistance Factor Rating of Highway Bridges

hosted by

Mississippi Department of Transportation

Date: *June 07-10, 2022* *Hours of Instruction:* 24
Location: *Jackson, MS*

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

John Were

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

COLLIERS ENGINEERING & DESIGN

Date: October 28-29, 2021 Hours of Instruction: 12

Location: Miami, FL

Instructor

Local Coordinator

Instructor

Thomas Harman, Director
National Highway Institute

CERTIFICATE OF TRAINING

SUNBELT RENTALS

This Certifies that
John Weres
of
Graham Smith

Has attended Mobile Elevating Work Platform Operator Training

MEWP's Trained on:

ANSI MEWP Operator Boom Lifts 3b, Scissor Lifts 3a

Trainer:
Julio Torres

Date of Training:
3/18/2022

Expires 5 Years from Above Date

CERTIFICATE OF TRAINING

SUNBELT RENTALS

This Certifies that
John Weres
of
Graham Smith

Has attended Mobile Elevating Work Platform Operator Training

MEWP's Trained on:

ANSI MEWP Operator Boom Lifts 3b, Scissor Lifts 3a

Trainer:
Julio Torres

Date of Training:
4/18/2022

Expires 5 Years from Above Date

As holder of this card, I pledge to follow all ANSI A92 standards for the safe operation lifts and any other applicable safety guidelines for construction and industry as well as:

1. Read and Familiarize myself with all manuals for each AWP
2. Conduct a Pre-start inspection before each day or before each work shift
3. Ensure operators are trained
4. Perform a Walk-around Inspection
5. Ensure that before each movement or repositioning of the lift:

The AWP is operated on a surface within the limits specified by the manufacturer

Outriggers, extendible axles, or other stability enhancing means are used as required by the manufacturer

Guardrails are installed and access gates or chain rings are closed per the manufacturer's instructions

The load and it's distribution on the platform are in accordance with the manufacturer's rated capacity

There is adequate overhead clearance

Maintain the Minimum Safe Approach Distance (MSAD) from energized power lines

All PPE is worn including a personal harness and lanyard attached to the manufacturer's anchorage point

6. Follow all manufacturer's Warnings and Instructions

AMP SALES & SERVICES, LLC
(540) 586-1021

Certificate of Completion

This certifies that

John Weres

Has successfully completed all requirements defined in ANSI Regulation A92.24 to be qualified as a

Mobile Elevated Work Platform
Bucket Operator: Group B, Type 2

Oct 10th, 2019
Date

Mark Luft, Trainer

www.ampservicesllc.com

Certificate of Training

this certifies that

John Weres

has successfully completed the training program requirements for

National Flagger Certification Training Course

Awarded on this **4th** *day of* **October 2023**

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

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

Mr. Thong Quang Tran

License/Certificate Type - Number
PE.0032072

Expiration Date
03/31/2026

Status: Active

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

Mr. Alben Paul Cooper III

License/Certificate Type - Number
PE.0036291

Expiration Date
09/30/2025

Status: Active

Certificate of Completion

presented to

Alben Cooper

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Alben Cooper

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Alben Cooper

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Civil Design & Construction Certifications

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)

Civil Design & Construction, Inc.

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

NC541330, NC541340, NC541350, NC541370

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

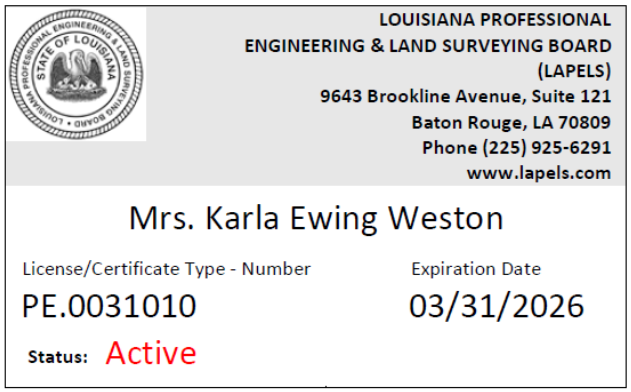
Certificate Eligibility: March 2024 to March 2025

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



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

Mrs. Karla Ewing Weston

License/Certificate Type - Number	Expiration Date
PE.0031010	03/31/2026

Status: Active

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

Mr. Christopher Lyle Ballard

License/Certificate Type - Number	Expiration Date
PLS.0005033	09/30/2024

Status: Active

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

Mr. Madison Edward Mills

License/Certificate Type - Number	Expiration Date
PLS.0005293	03/31/2025

Status: Active

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

Mr. Bradley Christopher Jacobs

License/Certificate Type - Number	Expiration Date
EI.0032456	09/30/2025

Status: Active

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

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

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

Baton Rouge, LA
Location

Director of Training

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Madison Mills
has attended
Louisiana Traffic Control Supervisor
Training Course

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

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brad Jacobs
has attended
Louisiana Traffic Control Supervisor
Training Course

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

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

CHRIS BALLARD

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 2/29/2024
Exp. Date 2/29/2028
State Issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

V0000287042

Verify at Flagger.com

ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

MADISON MILLS

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 8/1/2023
Exp. Date 8/1/2027
State Issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

V0000201560

Verify at Flagger.com

ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

BRADLEY JACOBS

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/22/2023
Exp. Date 5/22/2027
State Issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

V0000177975

Verify at Flagger.com

Vectura Consulting Services LLC Certifications

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Vectura Consulting Services, LLC

Public Address:

Ms. Sheelagh Brin Ferlito

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0005825	Active	09/21/2015	03/31/2026	Mrs. Sheelagh Brin Ferlito # PE.0025383

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Vectura Consulting Services, LLC

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

NC488490, NC541330, NC541340

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

Certificate Eligibility: June 2023 to June 2024

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Prime consultant name: WSP USA Inc.

LED | LOUISIANA ECONOMIC DEVELOPMENT

DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Vectura Consulting Services LLC

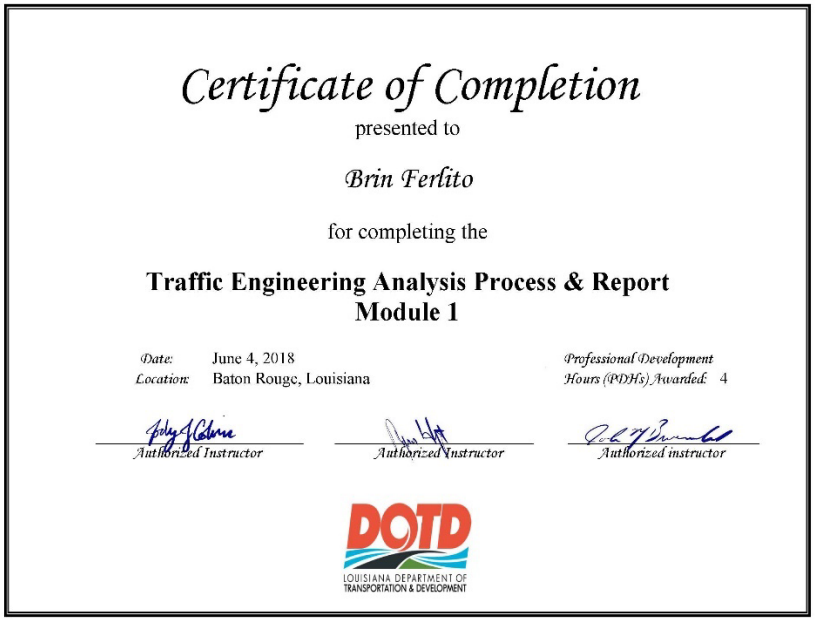
is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 6/18/2024 to 6/18/2025 .

Certification No. 20633

Stephanie Hartman,
Director, Entrepreneurial Services

Prime consultant name: WSP USA Inc.



Certificate of Completion

presented to

Brin Ferlito

for completing the

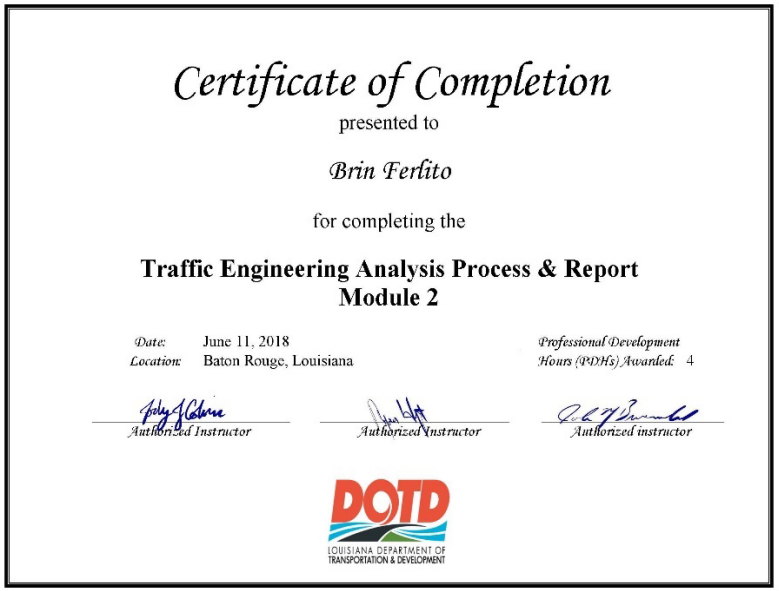
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Brin Ferlito

for completing the

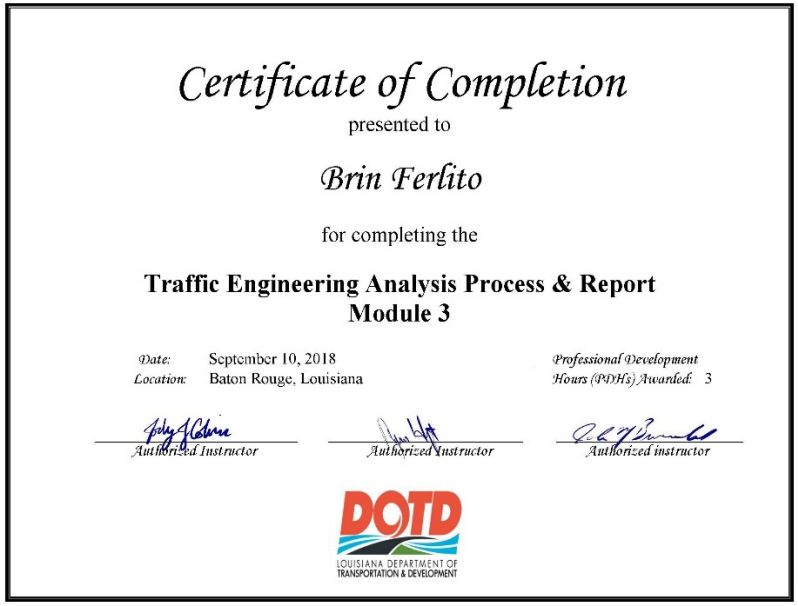
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Brin Ferlito

for completing the

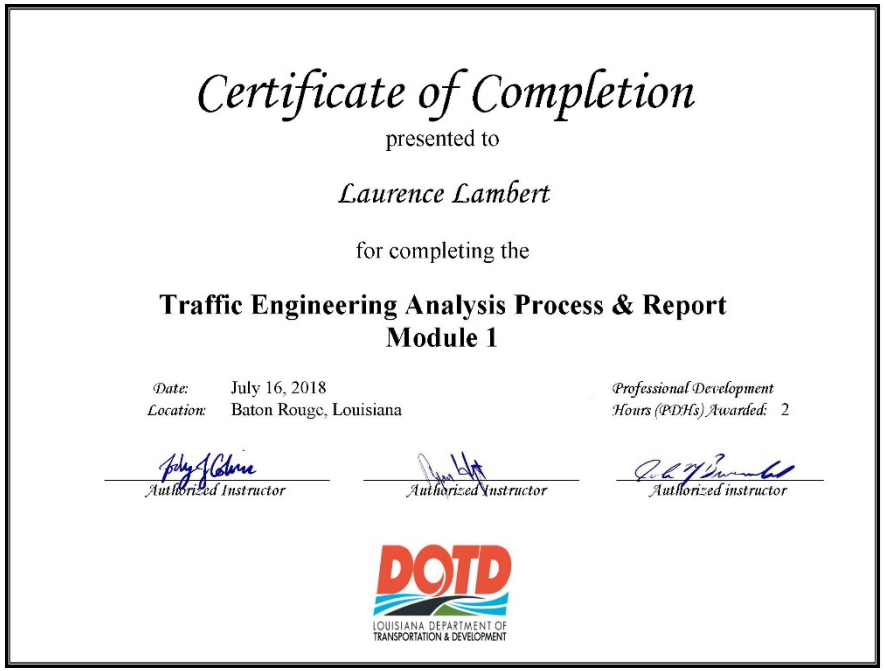
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

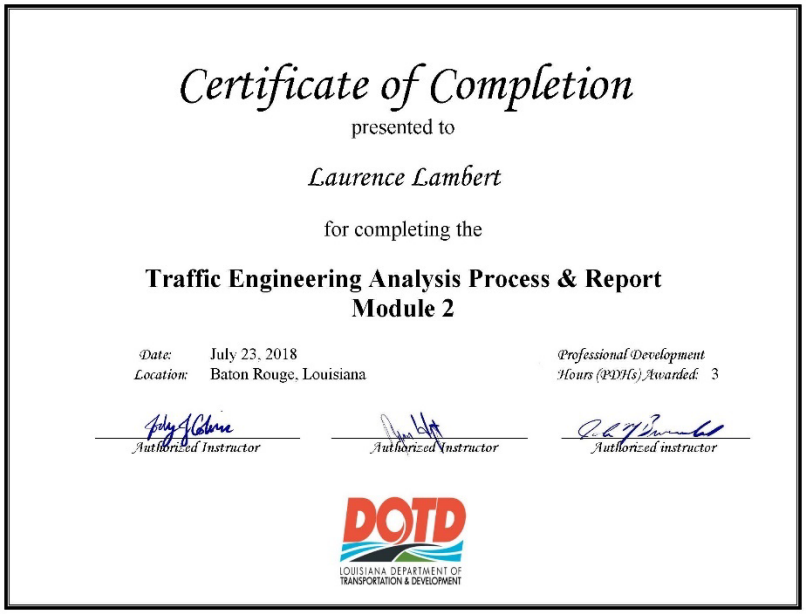
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

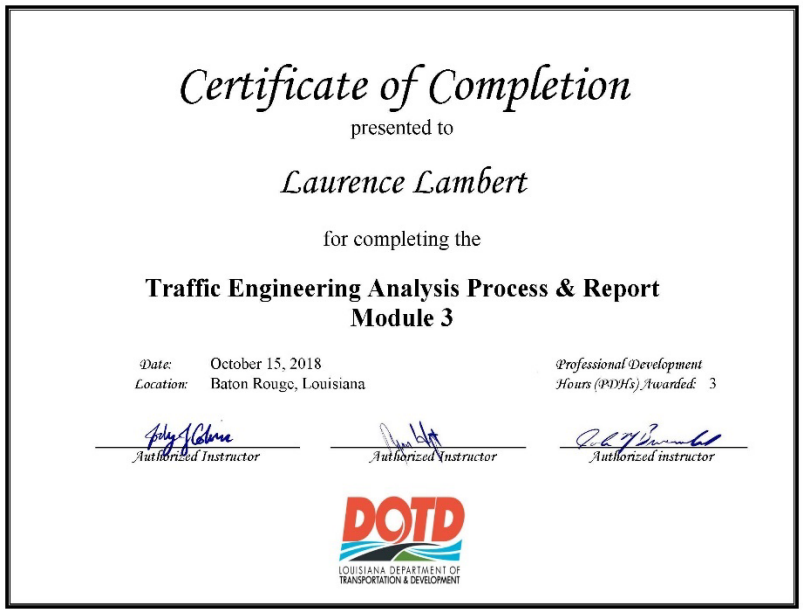
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Brin Ferlito
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course
4/29/2022 to 4/29/2026
Training Valid Through
Director of Training
Baton Rouge, LA
Location
President, CEO
ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.
ATSSA
American Traffic Safety Services Association ATSSA.com


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Laurence Lambert
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course
4/29/2022 to 4/29/2026
Training Valid Through
Director of Training
Baton Rouge, LA
Location
President, CEO
ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.
ATSSA
American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kristen Farrington

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

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

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA
SAFER ROADS SAVE LIVES

Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

We commend you on your decision to become an ATSSA Certified Flagger. This distinction reflects that you have been trained by the leader in roadway safety and also entitles you to be listed on our National Flagger Database. Please review your state requirements for expiration of your flagger card. Also, please inform us of any errors or changes in your name or address so we may keep our records up to date.

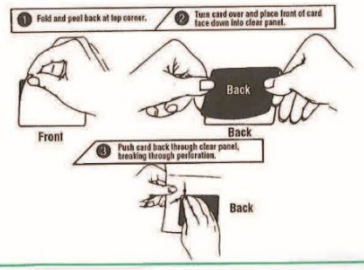
Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

Donna M. Clark

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:



ATSSA American Traffic Safety Services Association

This is to affirm that

Sheelagh Ferlito

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA *Instructor Name*

Exp. Date 5/8/2027 — Donna M. Clark *Instructor Signature*

State Issued LA

A1000126216 — Verify at Flagger.com

American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com

ATSSA
SAFER ROADS SAVE LIVES

Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

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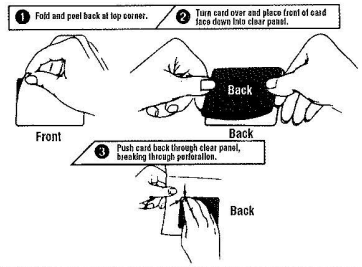
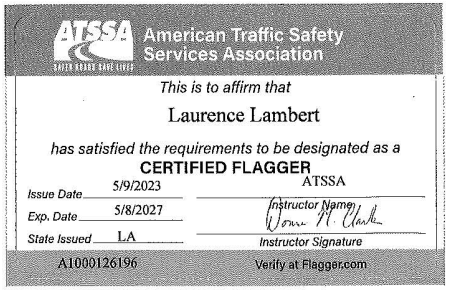
Sincerely,

Donna M. Clark

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:





American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com

ATSSA
SAFER ROADS SAVE LIVES

Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

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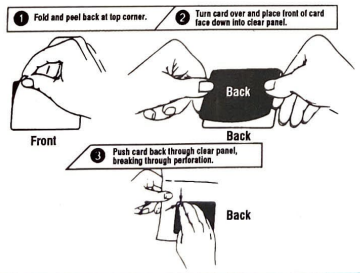
Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

Director of Training

Laminating the front of your card with Dual Laminate:



American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com

Transportation Professional Certification Board Inc.

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

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

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

Your certification is renewed through 9/9/2024.

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

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

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

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

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

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

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

Sincerely,

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

Transportation Professional Certification Board Inc.

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

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

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

Your certification is renewed through 2/3/2025.

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

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

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

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

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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 550 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org

Mrs. Kristen Gahagan Farrington, P.E., PTOE, RSP1
4004 Hastings Street
Metairie, LA 70002
USA

Dear Mrs. Farrington,

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 3/26/2026.

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

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

Sincerely,

Joseph C. Balskus, P.E., PTOE, RSP1
Chair, Transportation Professional Certification Board Inc.

Transportation Professional Certification Board, Inc.

certifies that

Kristen Gahagan Farrington

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 916 issued in Washington, DC, USA

11/23/2022

Deborah L Snyder
Deborah Snyder
Chair

RSP1 ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

Prime consultant name: WSP USA Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

KRISTEN FARRINGTON

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: August 10-12, 2022
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Instructor

Allison H. Landry
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

BRIN FERLITO

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: August 10-12, 2022
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Instructor

Allison H. Landry
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Ardaman & Associates Certifications

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Ardaman & Associates, Incorporated	8008 South Orange Avenue

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0001680	Active	01/14/1992	03/31/2026	Mr. Robert Egli Rousset # PE.0038637 ; Mr. Rodrigo Home # PE.0040518 ; Mr. Robert Edwin Jewell # PE.0038579

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Robert Jewell

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

9/25/2020 to 9/25/2024
Date

Vice President of Member Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/29/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Megan G. Bourgeois
316 Highlandia Drive
Baton Rouge, Louisiana 70810

Cut Here

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

Ms. Megan G. Bourgeois

License/Certificate Type - Number	Expiration Date
PE.0036725	03/31/2026

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

Prime consultant name: WSP USA Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

MEGAN BOURGEOIS

has participated in

FHWA-NHI-132070 Drilled Shaft Foundation Inspection

hosted by

LA DOTD/LTRC

Date: *March 13-15, 2019*

Location: *Baton Rouge, LA*

Hours of Instruction: 15

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Megan Bourgeois

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

8/7/2020 to 8/7/2024
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Training

this certifies that

Megan Bourgeois

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training

Awarded on this **8th** *day of* **August 2020**

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 10/20/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Robert Egli Rousset
13884 Cobblestone Drive
Denham Springs, Louisiana 70726

Cut Here

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

Mr. Robert Egli Rousset

License/Certificate Type - Number	Expiration Date
PE.0038637	09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 10/17/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Robert Edwin Jewell
1333 South Columbine Street
Baton Rouge, Louisiana 70808

Cut Here

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

Mr. Robert Edwin Jewell

License/Certificate Type - Number	Expiration Date
PE.0038579	09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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A P S Engineering and Testing, LLC

Name:

APS Engineering and Testing, LLC

Public Address:

Mr. Sergio Aviles
5261 Highland Road,

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0005198	Active	11/29/2012	03/31/2025	Mr. Sergio L. Aviles # PE.0033571

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

APS Engineering and Testing, LLC

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

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

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

Certificate Eligibility: October 2023 to October 2024

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Prime consultant name: WSP USA Inc.

Garver LLC

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Garver, LLC

Public Address:

Ms. Daphne Ruck4701
Northshore Drive

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003869	Active	06/09/2008	09/30/2024	Mr. John T. Watkins III # PE.0035913

21. QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted**.

N/A

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Arcadis U.S., Inc.	6100 Corporate Blvd., Suite 325 Baton Rouge, LA 70808	Akhil Chauhan PE, PMP, PTOE, PTP akhil.chauhan@arcadis.com	225.244.6589
Gresham Smith	10000 Perkins Rowe, Suite 280 Baton Rouge, LA 70810	Herbert "Bert" Moore, II, PE, PLS, PTOE bert.moore@greshamsmith.com	225.757.5849
Civil Design & Construction, Inc. (DBE)	PO Box 857 Port Allen, LA	Karla E. Weston, PE Kweston@cdcbr.com	225.765.1803
Vectura Consulting Services, LLC (DBE)	4467 Bluebonnet Blvd, Suite A Baton Rouge, LA 70809	Sheelagh Brin Ferlito bferlito@vecturacs.com	225.223.6685
Ardaman & Associates, Inc.	316 Highlandia Drive Baton Rouge, LA 70810	Robert Jewell RJewell@ardaman.com	225.666.4598
A P S Engineering and Testing, LLC (DBE)	1645 Nicholson Drive Baton Rouge, LA 70802	Sergio Aviles, PE sergio@aps-testing.com	225.456.5714
T2 UES, Inc. d/b/a T2 Utility Engineers	10212 Patriot Drive Baton Rouge, LA 70816	Suzanne McCain, PE, LSI suzanne.mccain@t2ue.com	225.900.8683
Garver LLC	4701 Northshore Drive North Little Rock, AR 72118	Jerry Holder JDHolder@GarverUSA.com	501-376-3633

(Add rows as needed)

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement**.

[redacted]