DOTD FORM: 24-102

(Revised March 1, 2022)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	IDIQ CONTRACT FOR BRIDGE LOAD RATING STATEWIDE
2. Contract number(s) as shown in the advertisement	CONTRACT NO. 4400025865
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	**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, 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, 225-218-3584, Max.Nassar@wsp.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9):  Date: **January 11, 2023**
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): **Urban Systems, Inc.** Firm(s)' %: **2%**

12. Past Performance Evaluation Discipline Table:

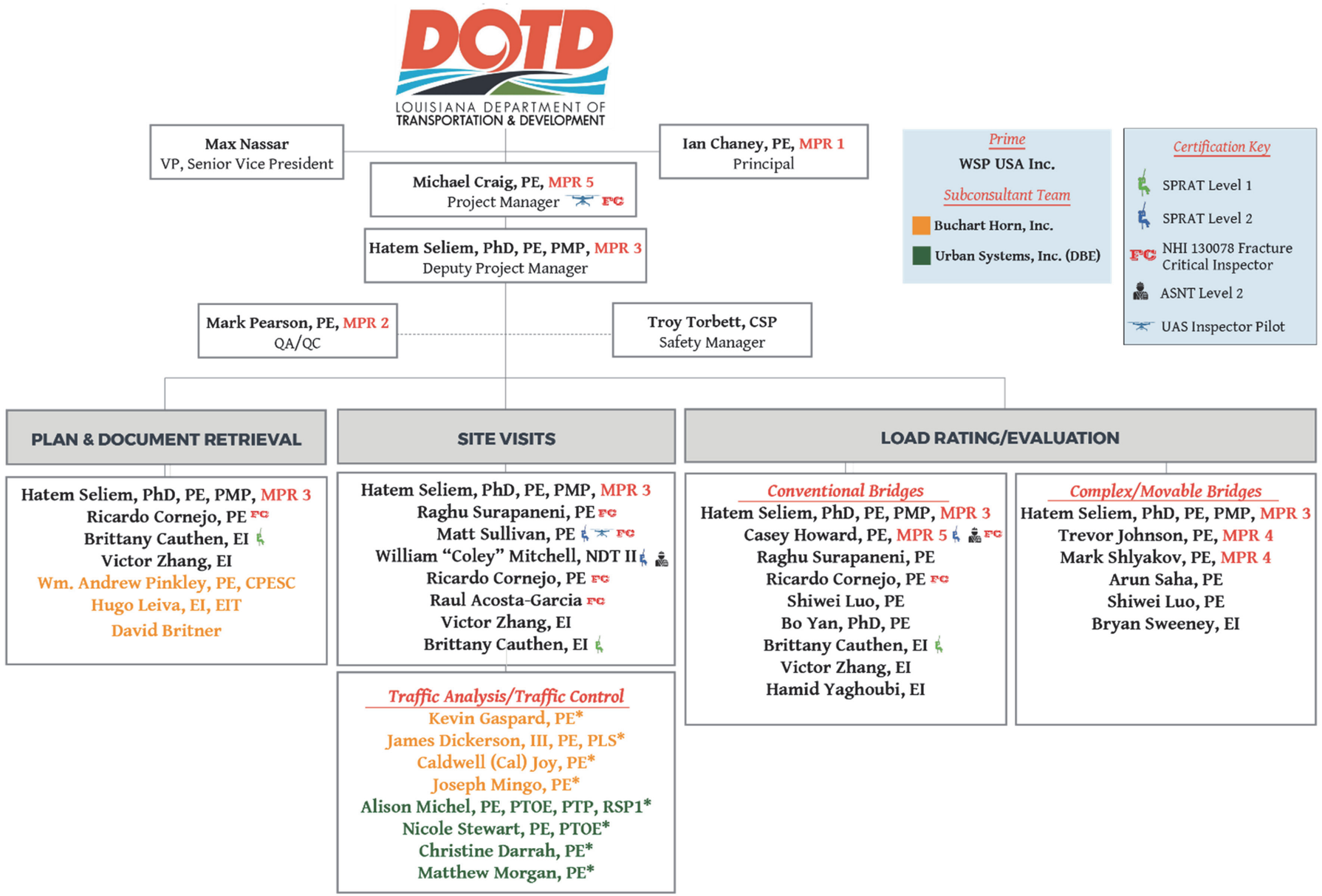
Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. 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.					
Evaluation Discipline(s)	% of Overall Contract	**WSP USA Inc.** ***(Prime)***	**Buchart Horn, Inc.** ***(Sub)***	**Urban Systems Inc.** ***(DBE Sub)***	**Each Discipline must total to 100%**
Bridge	**95%**	98%	2%	--	100%
Traffic	**5%**	--	60%	40%	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	**100%**	**93%**	**5%**	**2%**	

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.

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
WSP USA Inc.	Principal	1	25
	Supervisor – Engineering	4	12
	Engineer	8	32
	Bridge Inspector	10	80
	Engineering-Aide	8	32
	CADD Drafter	1	4
	Technician	2	8
Buchart Horn, Inc.	Principal	1	3
	Supervisor Engineer	2	4
	Engineer	2	3
	Engineer Intern	1	5
	CADD Operator	1	1
URBAN SYSTEMS inc.	Supervisor – Engineering	2	2
	Engineer	2	2
	Engineer Intern	1	2
	Senior Technician	1	1
	CAD Technician	1	1
	Inspector	0	1
	Engineering Aide	2	3

14. Organizational Chart:



** Denotes personnel performing traffic engineering analysis and/or QC of traffic engineering analysis*

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

15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Ian Chaney, PE, VP	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0042288)	LA	09/30/2024
2	Mark Pearson, PE, VP	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0039629) (Bridge Design/Structural Inspection)	LA	09/30/2023
3	Hatem Seliem, PhD, PE, PMP	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0039759), 10 years minimum in charge of Bridge Load Rating/ Design/ Repair using LADOTD standards.	LA	09/30/2023
4	Trevor Johnson, PE	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0045518) 10 years min. of Load Rating Complex Bridges	LA	09/30/2023
	Mark Shlyakov, PE	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0038927) 10 years min. of Load Rating Complex Bridges	LA	09/30/2024
5	Michael Craig, PE, VP	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0041964) 5 years min. of load rating and AASHTOWare BrR experience.	LA	3/31/2024
	Casey Howard, PE	**WSP USA Inc.**	Professional Engineer, Civil Engineering (PE.0042913) 5 years min. of load rating and AASHTOWare BrR experience.	LA	3/31/2023

16. Staff Experience:

PRIME FIRM - WSP USA Inc.

Firm employed by: WSP USA Inc.				
Name	**Max Nassar, VP**		**Years of relevant experience with this employer**	4
Title	Vice President / Senior Director		**Years of relevant experience with other employer(s)**	42
Degree(s) / Years / Specialization			BA, 1976, Psychology	
Active registration number / state / expiration date			N/A	
Year registered	N/A	**Discipline**	N/A	
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 time specified in the applicable MPR(s).**			
4/20 – 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 toevaluate 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.			
5/2019 – 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.			
5/2019 – 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.
6/2019 – 5/2020	**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.
6/2017 – 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
2/2021-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.			MPR 1
Name	**Ian Chaney, PE, VP**	**Years of relevant experience with this employer**	20
Title	Principal	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	MS / 2002 / Geotechnical Engineer BS / 2001 / Mining Engineering		
Active registration number / state / expiration date	PE LA (0042288) – 09/30/2024		
Year registered	2018	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	**Principal-in-Charge** *Meets all requirements for MPR1*		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2011 - ongoing	**VDOT, City of Chesapeake 2011 - Present Civil Engineering Open-End Annual Contract, Chesapeake, VA**: as pursuit manager and design manager for the pursuit, Ian was responsible for preliminary designs of both an immersed tunnel option and a bored tunnel option, including manmade island extensions, ground improvement, and protection of the existing tunnels and islands, built in the Atlantic Ocean on a subsurface consisting of up to 80 feet of soft compressible clays. WSP provided a variety of general civil engineering services under an annual contract for the City of Chesapeake. Project elements included stormwater management and drainage, water quality improvements, utility design and coordination, site development, traffic analysis, roadway design, highway lighting, and landscape design.
01/17 - present	**LACPRA Mid-Barataria Sediment Diversion Project – Plaquemines Parish, 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.
2015	**District of Columbia Water and Sewer Authority, First Street Tunnel Design, Washington, DC**: as geotechnical engineer, Ian was responsible for the design of all near surface structures and their support of excavations, the development of Instrumentation and monitoring plans, as well as preparing construction impact assessment reports, which evaluated the existing structures and facilities because of tunneling, construction and excavation. WSP, in joint venture, provided architectural and engineering, and related services for the District of Columbia Water and Sewer Authority's First Street Tunnel design-build project, a major component of their Clean Rivers Project. The tunnel was designed to temporarily store excess storm water and mitigate surface flooding and sewer backups in the district's Bloomingdale and LaDroit Park neighborhoods.

Firm employed by: WSP USA Inc.			MPR 5
Name	**Michael Craig, PE, VP**	**Years of experience with this firm/employer**	14
Title	Southeast In-Service Bridge Dept. Manager/ Project Manager	**Years of experience with other firm(s)/employer(s)**	12

Degree(s) / Years / Specialization	BS / 1997 / Civil Engineering MS / 1999 / Structural Engineering – Bridge Inspection, Repair and Design
Active registration number / state / expiration date	PE LA (0041964) – 03/31-2024
Year registered 2008 **Discipline**	Structural Engineering
Contract role(s) / brief description of responsibilities	**Project Manager** – *Meets all requirements for MPR5* Provides oversite of all aspects of the project including inspection, testing, repair plans and coordination. ***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, 2018 (NHI-130053); Railroad Roadway Worker Protection 2012, 2014, 2016; Bridge Maintenance Training, 2013 (NHI-134029); 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*
Experience dates (mm/yy–mm/yy)	Mr. Craig has 23 years of experience in structural engineering with a focus on bridge inspection, load rating, bridge repairs and asset management services. Michael has inspected over 2,000 bridges across the southeast, Including many complex truss, and cable-stayed structures. Michael has also overseen the repairs of several hundred bridges. The repairs have ranged from complex repairs on the dampening systems of cable-stayed bridges to spall repairs on culverts.
07/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Project Manager of this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. Michael utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection was needed. 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. 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.**

6/16-Ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, Georgia:** Project Manager. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge and in-depth inspection (2021). The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays.
06/17-01/18	**Minnesota DOT, St. Croix Bridge Inspection, Minnesota & Wisconsin:** One of six Team Leaders for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. In addition, Michael assisted in WSP's drone inspection of this structure.
6/11-Ongoing	**NCDOT, NBIS Bridge Inspection, Load Rating, Repairs and Designs:** Team Leader, Project Manager and QC Manager. Michael has been involved with the NCDOT bridge inspection program for 20 years. He has performed field inspections, analysis and ratings; evaluated the physical condition; and recommended preservation and maintenance needs, repair plans, including the use of cathodic protection, and designed several bridges under this contract, including one of the state's longest single span bridges. To date he has completed over 2000 load ratings utilizing, Mathcad, Excel and BrR; and 2,000 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses.
6/16- Reselected 07/17 06/18-Ongoing	**Texas Fracture-critical and Routine Bridge Inspection, TxDOT, Statewide Texas:** Team Leader and Assistant Project Manager overseeing the staff that performed the inspections of over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges throughout the state of Texas. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft-tall fracture-critical steel arch pylon supporting the stays. Rope access was used to gain the proper hands-on access required, and non-destructive testing was performed at problematic detail and crack locations. In addition to managing the staff of 6 Team Leaders performing these inspections, Michael also assisted with the load testing of 15 culverts and utilized this data to calibrate the load rating of over 5000 culverts, saving the state millions of dollars and unnecessary load postings.

Firm employed by WSP USA Inc.			MPR 3
Name	**Hatem Seliem, PhD, PE, PMP**	**Years of relevant experience with this employer**	<1
Title	Senior Load Rating Engineer	**Years of relevant experience with other employer(s)**	15
Degree(s) / Years / Specialization	PhD / Civil Engineering / 2007 / North Carolina State University MS / Structural Engineering / 2002 / Cairo University (Egypt) BS / Civil Engineering / 2000 / Cairo University (Egypt)		
Active registration number / state / expiration date	PE LA (38334) - 09/30/2023; FL (80795) – 02/28/2025; MS (33642) – 12/31/2023		
Year registered	2015 (LA); 2016 (FL)	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	**Load Rating Lead** *Meets all requirements for MPR3* Dr. Seliem has over 15 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.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).
2020	**Load Rating of 396 Bridges, LADOTD, Louisiana:** 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.
2020	**Evaluation of Bridge Deficiencies-Concrete Piles Repair, LADOTD, Louisiana:** 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.

2019	**Non-Destructive Evaluation and Load Testing of Seven Posted Bridges, LADOTD, Louisiana:** 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.
2019	**I-20 over Lakeshore Drive and KCS RR, Caddo Parish, LADOTD, Louisiana:** 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.
2019	**Evaluation and Load Rating of 27 Complex Off-System Bridges, LADOTD, Louisiana:** 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.
2018	**US 71 (LA-1) Market Street over ICG RR, LADOTD, Louisiana:** Provided review of existing documents including as-built plans, load rating reports, and inspection; QC/QA review of the structural analysis, design of the two alternates, and the construction cost estimate. Provided Stage 0 Design (Feasibility Study) on the twin two-lane bridge structures on US 71 (LA-1) Market Street viaduct Southbound over ICR railroad through downtown Shreveport. Two alternates were designed to satisfy the railroad minimum clearance requirements.
2018	**LA 182 Over Atchafalaya River (Berwick Bay), LADOTD, Louisiana:** 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.

Firm employed by: WSP USA Inc.			MPR 2
Name	**Lloyd (Mark) Pearson, PE, VP**	**Years of experience with this firm/employer**	3
Title	QA/ QC Engineer	**Years of experience with other firm(s)/employer(s)**	42

Degree(s) / Years / Specialization	BSCE / 1977 / Structural Engineering MCE / 1979 / Structural Engineering
Active registration number / state / expiration date	PE LA (39629) – 9/30/2023, NC (10656) – 12/31/2022, MS (13215) – 12/31/2022
Year registered 2015, 1982, 1997	**Discipline** Civil Engineering
Contract role(s) / brief description of responsibilities	**Load Rating and Bridge Repair Engineer** – Mark Pearson is a bridge inspection and preservation manager, senior bridge engineer and project manager. He has functioned as task lead, engineer-of-record and design engineer 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 is currently task manager for post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control reviews of bridge load ratings in SC and TX (using AASHTOware) and bridge repair plans in NC. ***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.*

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
7/2018 – 12/2022	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed **with BrR**. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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 Carolian:** 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 foot main span through-truss; and SR 67/Watauga River with 492 foot main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

Firm employed by: WSP USA Inc.				MPR 4
Name	**Trevor Johnson, PE**	**Years of relevant experience with this employer**		18
Title	Complex Structural Engineer Load Rater	**Years of relevant experience with other employer(s)**		2
Degree(s) / Years / Specialization		BS / 2002 / Structural Engineering		
Active registration number / state / expiration date		PE LA (0045518) - 9/30/2023; FL (65624) - 2/28/2023		
Year registered	2021; 2008	**Discipline**	Structural Engineering	
Contract role(s) / brief description of responsibilities		**Complex Structural Engineer Load Rater** *Meets all requirements for MPR4* Trevor is a lead structural engineer and bridge inspector with extensive experience with bridge rehabilitation, design, analysis, inspection, evaluation, retrofit plan work, and alternative studies. Trevor led several complex projects including high-level, difficult access structures; confined space; movable bridges; and historic structures. Trevor has experience with unique vertical lift bridges, bascules, truss bridges, bobtail (asymmetrical) swing bridge, steel box pier caps, and various prestressed concrete superstructures, and has provided quality assurance/quantity control for numerous bridge design and inspection projects.		
Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**			
6/16 - 5/21	**FDOT, District Wide Bridge Engineering Design/CEI Support Services, District One, FL:** Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including multiple movable bridge repairs and mechanical/electrical upgrades, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, painting, fender repairs, pile jackets, cathodic protection system repairs, ABC bridge span replacement, joint repairs, concrete and steel repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, implemented innovative cost saving approaches, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.			
6/12 - 12/18	**FDOT, District Wide Movable and Complex Bridge Repairs, District Two, FL:** Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including movable bridge repairs, approach span repairs, inspections, and mechanical/electrical upgrades, multiple truss bridge repairs, segmental post tension soft grout investigations and impregnation repairs, painting, joint repairs, concrete spall and crack repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, cost effective complex steel repairs, minimized impacts on the public, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.			

11/16 - 3/21	**FDOT, Wilson Pigott Draw Bascule Bridge & LaBelle Draw Bascule Bridge over the Caloosahatchee Channel, Lee County, FL:** Project Manager and Engineer of Record responsible for these double-leaf Hopkins trunnion bascule bridges. Work included strengthening to bring the structure up to current HL-93 FL120 load rating. Strengthening included innovative solutions of adding post tensioning bars to the floor beams, post installed shear connectors to the cross beams, and carbon fiber wraps to the pre-stressed approach span beams. Rehabilitation included spall repairs, structural steel repairs, coating spot paint, span balancing, span lock repairs, live load shoe adjustments, temporary traffic control, and Wilson Pigott Draw included replacement of the program logic control system (PLC). Also responsible for coordinating with owners, stakeholders, community outreach, and project team, and lead work to high quality standards constructability, and accurate cost estimates.
10/19 - 4/20	**LADOTD, Port of New Orleans, Almonaster Rail Bascule Bridge, New Orleans, LA:** Technical Advisor for the single leaf Strauss truss bascule bridge rehabilitation recommendations and analysis for the repair of deteriorated components of the Almonaster Bridge. Trevor's duties include advising and review of the on-site inspection, quality control review reports of findings & technical memorandums, and load rating calculations.
3/19 – Present	**LADOTD, Seabrook Rail Bascule Bridge, New Orleans, LA:** Technical Advisor for the single leaf Strauss truss bascule bridge and approach span rehabilitation. Trevor's duties included advising and quality control review of the analysis, design, contract plans and specifications of the full superstructure and bearings replacement for each approach spans along with post design services.
4/16 – 11/19	**FDOT, Bridge of Lions Bascule over Matanzas River IWW, St. Augustine, FL:** Project Manager and Structural Engineer responsible for the double rolling bascule bridge rehabilitation, spot painting and overcoating of existing metalizing, correcting barrier railing conflicts, partial replacement of the sidewalk slip resistant plates, and repairing all the pedestrian railing and coordinating the electrical rehabilitation and limit switch improvements.
7/09 – 7/16 & 10/17 – 9/18	**FDOT, Main Street Lift Bridge Structural Enhancements, Jacksonville, FL:** Project Manager and Engineer of Record responsible for structural enhancement to this landmark 365-foot span drive vertical lift truss bridge including sidewalk replacement, addition of barriers for truss protection, structural repairs of the trusses, towers, floor beams, stringers, rocker nest bearing repairs, approach span repairs, and spot painting. lead inspections, determine appropriate scope of work, establish structural repair methods. Work also included electrical rehabilitation and droop cable replacement. Engineering studies include: Main Sheave Trunnion and Wire Rope Replacement, Fit for Service analysis (remaining life) of trunnion cracks, cost estimate, construction time estimates and Traffic Resistance Barrier Replacement for making improvements to the existing and replacement options.
10/14 – 12/17	**FDOT, John Ringling Parkway Bascule Bridge over New Pass, Sarasota, FL:** Project Manager and Engineer of Record for this single leaf trunnion bascule span. Trevor's responsible for replacing the concrete filled sidewalk grating, window and door replacement, roof replacement, traffic gate replacement, and structural support for the generator replacement, control system replacement, and a motor re-alignment.

Firm employed by: WSP USA Inc.			MPR 4
Name	**Mark Shlyakov, PE**	**Years of relevant experience with this employer**	<1
Title	Complex Structural Engineer Load Rater	**Years of relevant experience with other employer(s)**	42

Degree(s) / Years / Specialization			N/A
Active registration number /state/expiration date			LA (38927) – 9/30/24; FL (70348) – 2/28/23; MA (48774) – 6/30/22; NJ (24GE05658300) – 4/30/22; PA (PE048980E) – 9/30/23; TX (PE 123009) – 3/31/23; GA (38927) – 12/31/22; WV (38927) – 12/31/22; MD (38927) – 10/10/23
Year registered	2009; 2014; 2010; 2021; 1995; 2016; 2019; 2001; 2019	**Discipline**	Structural Engineering
Contract role(s) / brief description of responsibilities			**Complex Structural Engineer Load Rater** *Meets all requirements for MPR4* Mark has more than 40 years of experience in the design, inspection, and rehabilitation of steel and concrete bridges including horizontally curved composite steel structures, prestressed concrete, post-tensioned concrete segmental, cable-stayed, arch bridges, deep foundations, long-span trusses, retaining walls, and culverts. He previously served as a project manager and senior structural engineer on numerous bridge projects and has performed seismic evaluation, design and retrofit of many bridges throughout Pennsylvania, Tennessee, Florida, and other states. Mark has extensive experience in the analysis and plans preparation of major 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 time specified in the applicable MPR(s).**
1/13 - 11/15	**LADOTD, Jimmie Davis Bridge over Red River, District 4, Bossier City, Louisiana:** Senior structural engineer for this 16 span, 2821-foot long bridge that included three central through trusses (354 feet + 403 feet + 354 feet) and multiple 200 feet cantilever plate girders spans. Mark developed conceptual and final structural steel rehabilitation, truss jacking schemes, and conversion of expansion bearings multiple roller system with hybrid disk bearings. He designed a special strand-jacking system and structural analysis of the trusses and approach spans. In addition, he conducted 3D staged modeling with CSiBridge software.
12/09 - 9/10	**PennDOT, State Route 6006-State Route 255 over State Route 107 and Rush Brook Creek, Lackawanna County, Pennsylvania:** Senior structural engineer responsible for performing truss rating analysis and design of the retrofit of deteriorated steel truss connections and the replacement of existing rocker bearings. This single-span through-truss was extensively retrofitted in stages while maintaining one lane of traffic all the time. The original non-composite deck was replaced with a new composite deck. The composite action improved the rating of stringers and floor beams.

2/16 - 03/19	**TxDOT, State Highway 288 and Sam Houston Tollway, Bridges BW8-F and BW8-H, Houston, Texas:** Lead bridge designer and engineer of record of two major curved bridges. This design and build project included horizontally curved structural steel spans ranging from 260-feet to 314-feet along with up to 150-foot-long concrete beam spans. Mark designed a wide variety of substructure types: hammerhead with precast and cast-in-place caps, long-span post-tensioned straddle bents, post-tensioned eccentric bents, integral bents with post-tensioned parabolic tendons. The bents with inverted-T caps and straddles were used in the locations with tight vertical clearance. He conducted a 3D staging analysis for the design of steel curved girders with integral and conventional connections to the substructure.
2/16 - 5/16	**MTA, Chesapeake Bay Bridge, Maryland Transportation Authority, Maryland:** Team leader for the inspection of the eastbound through cantilever trusses and flanking deck trusses in accordance with National Bridge Inspection Standards. The 3,200-foot suspension span of this 4.3 miles long bridge was one of the longest continuous over-water steel structures in the United States.
4/17 - 2/20	**MTA, Purple Line Light Rail, MDSHA, Washington, DC:** Designed the segment 1 anchored and cantilever walls. Mark provided the calculation check for a five-span light rail bridge over the Silver Spring transit center. The bridge had an S-curve layout with a track radius of 173 feet and spanned up to 280 feet long. He provided the calculation check for the 182 feet long single-span bridge carrying a light rail bridge over Connecticut Avenue. In addition, Mark also conducted an independent analysis of the Lyttonsville Bridge which carried highway traffic over railway tracks.
9/17 - 2/20	**FDOT, Gusset Plate Load Rating Analysis District 2 GEC Contract, Lake City, Florida:** Lead technical professional for the load rating of gusset plates on six major steel truss bridges near Jacksonville, Florida, which included Myrtle Avenue (1955): three-rib steel through arch and 386 feet maximum span; St. Mary's River Bridge (1927): four-span steel moveable swing truss; Mathews Bridge (1953): six-span steel cantilever truss and 810 feet maximum span; Main Street (1941): three-span steel moveable lift-truss and 386 feet maximum span; Isaiah D. Hart Bridge (1967): three-span steel tied-arch and 1088 feet maximum span; and Hal W. Adams (1947): Steel truss suspension bridge and 420 feet maximum span. Mark's efforts included field review and inspection of each bridge, review of historical documents, the load rating of the plates and connections in accordance with MBE Article 6A.6.12.6, 3-D modeling of the trusses, and evaluation of rehabilitation alternatives. He completed various roles for different structures: engineer of record for the rating of Myrtle, St. Mary's. He also developed evaluation spreadsheets to handle gusset ratings of eight unique vehicles, which uses partial shear and truncated Whitmore techniques developed by the Federal Highway Administration and implemented in the American Association of State Highway and Transportation Officials.

Firm employed by: WSP USA Inc.				MPR 5
Name	**Casey Howard, PE**		**Years of experience with this firm/employer**	10
Title	Senior Load Rating Engineer		**Years of experience with other firm(s)/employer(s)**	0
Degree(s) / Years / Specialization			BS / 2013 / Civil Engineering	
Active registration number / state / expiration date			PE LA (0042913) – 03/31/2023	
Year registered	2018	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Bridge Inspection Team Leader & Routine Bridge Repair Lead** *Meets all requirements for MPR5* ***Relevant Training**: FHWA Safety Inspection of In-Service Bridges, 2014 (NHI 130055); FHWA Prerequisite, 2013 (NHI 130101A;) ASNT Ultrasonic Testing Level I, 2015; ASNT Ultrasonic Testing Level II General Exam, 2015; Fracture-Critical Inspection Techniques for Steel Bridges, 2016 (NHI 130078); Bridge Coatings Level 1, 2014 (BCC 12219); FHWA Bridge Maintenance Training, 2013 (NHI 134029); FHWA Introduction to Element Level Bridge Inspection, 2014; SPRAT Level l Rope Access Technician, 2015; SPRAT Level ll Rope Access Technician, 2017; FHWA Tunnel Safety Inspection, 2016 (NHI 130110); Confined Space Entry Training, 2017; American Red Cross Adult First Aid/CPR/AED; Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Inspection and Maintenance of Ancillary Highway; Structures, 2016 (NHI 130087); Aerial Training, 2017*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
07/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Mr. Howard served as a Deputy Project Manager and Project Engineer for the site assessment and load ratings of over 2604 bridges and culverts in districts 2 and 7. The load capacity ratings are being performed in accordance with the SCDOT Load Rating Guidance Document (LRGD). Tasks under this contract included Bridge data and plan collection, Site Assessments, Load Ratings, Labeling Diagrams and Record Drawings and NBI Data Correction. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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.**
03/16-Ongoing Reselected 2017	**TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas:** One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges

	(2017). Casey used rope access to gain the proper hands-on access required, and performed non-destructive testing at problematic detail and crack locations.
08/17-Ongoing	**TxDOT, Routine Bridge Inspections, Statewide, Texas:** Team Leader for hundreds of on/off-system routine bridge inspections throughout Texas. Work included creating and reviewing inspection reports within InspectTech, creating and submitting critical findings, and performing initial bridge inventory inspections.
06/16-Ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, Georgia:** One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two ongoing rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project includes the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages.
06/17-01/18	**MnDOT, St. Croix Bridge Inspection, Minnesota & Wisconsin:** Team Leader for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints, and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans.
2012-Ongoing	**NCDOT, NBIS Bridge Inspection and Repair:** Team Leader, and QC Manager. Casey has been involved with the NCDOT bridge inspection program for 9 years. He has performed field inspections, analysis and ratings; evaluated the physical condition; and recommended preservation and maintenance needs. Casey has also led the design for numerous bridge repair and preservation projects under this contract including: hydro-demolition and latex-modified concrete overlays, joint replacement, beam end repairs, timber and concrete pile repairs, galvanic protection of prestressed girders, cathodic and sacrificial anode protection of bent caps, bearing replacement and prestressed pile jacketing with sacrificial anodes. To date he has completed over 1000 load ratings utilizing, Mathcad, Excel and BrR; and 2,000 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses.

Firm employed by WSP USA Inc.					
Name	**Arun Saha, PE**		**Years of relevant experience with this employer**		3
Title	Load Rater		**Years of relevant experience with other employer(s)**		26
Degree(s) / Years / Specialization			MS / Civil Engineering / 1995 / University of Florida BE / Civil Engineering / 1989 / University of Florida		
Active registration number / state / expiration date			PE LA (38334) - 03/31/2022 (to be renewed); GA (25132) - 12/31/2022; SC (25295) - 06/30/2022; NC (32280) - 12/31/2021; MS (20841) - 12/31/2021; KY (29778) - 06/30/2022; NV (23915) - 06/30/2022		
Year registered	2013; 1999; 2006; 2006; 2015; 2013; 2013		**Discipline**	Civil Engineer	
Contract role(s) / brief description of responsibilities			**Load Rater** Arun has more than 26 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.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
2/13 – 8/15	**LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, Louisiana:** 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 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.				

2/13 – 8/15	**KDOT, Ohio River Bridges Project—Downtown Crossing Design-Build Segment, Louisville, Kentucky:** Task manager and EOR for two bridges—Ramp 10 and Ramp 21, both over I-64. Responsibilities included project design and coordination of project team, QA/QC design calculations and construction plans, and management of schedule and budget for this task. The Ohio River Bridges (ORB) project, connecting Louisville and southern Indiana, is one of the nation's largest transportation improvement projects to date. Completed the downtown crossing segment at the cost of $860 million.
2/13 – 8/15	**LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, Louisiana:** 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.
2/13 – 8/15	**LADOTD, Retainer Contract for Bridge Preservation, Statewide, Louisiana:** 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.
2/13 – 8/15	**LADOTD, Retainer Contract for Bridge Load Rating, Statewide, Louisiana:** 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.
2/13 – 8/15	**LADOTD, Bridge Scour Project, Statewide, Louisiana:** 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	**Shiwei Luo, PE**		**Years of relevant experience with this employer**	13
Title	Load Rater		**Years of relevant experience with other employer(s)**	8
Degree(s) / Years / Specialization			MS / 2002 / Civil Engineering / West Virginia University BS / 1997 / Engineering Mechanics / South China University of Technology	
Active registration number / state / expiration date			VA (041943) – 06/30/2024	
Year registered	2006	Discipline	Professional Engineer	
Contract role(s) / brief description of responsibilities			**Load Rater.** Shiwei Luo is a Supervising Structural Engineer with WSP USA with over 20 years of experience in bridge design and load rating. She is Assistant Project Manager for load rating of 2000+ bridges using AASHTOWare BrR, DESCUS, and LARSA software. She assists the Project Manager with managing rating teams and subconsultants. Most ratings are based on LRFR method; some were also rated by LFR or ASR method for bridges with low ratings. Structure length ranged from 20' to 6,000'. Emergency load rating (within a week of NTP) was provided for some low rating bridges that may require posting.	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2008-2011; 2011-2014; 2014-2018; 2018-2022	**VDOT Load rating of Existing Structures Contracts (Region III 2008-2011, Statewide 2011-2014, Statewide 2014-2018, and statewide 2018-2022):** Senior Engineer and Task Manager for four terms of the contracts for load rating of hundreds of different types of bridges statewide. Each contract is a four-year contract with $2M/year cap. Over 2,300 bridges were rated using AASHTOWare Bridge Rating, DESCUS, and LARSA software. The bridges included steel beam bridges, PC beam bridges, concrete structures, concrete slab, and other types of bridges. The ratings were done in the LRFR method, and for a few bridges, in LFR.
2020 - 2020	**SCDOT Load rating of Existing Structures (20 steel truss bridges):** Task Manager for load rating of 21 steel truss bridges with LRFR and LFR methods.
2018 - 2018	**WYDOT Load rating of Existing Structures (2 steel curved bridges and 6 steel truss bridges):** Task Manager for load rating of 2 steel curved bridges with LFR method and 6 steel truss bridges with ASR method. Client: Wyoming Department of Transportation.

Firm employed by: WSP USA Inc.				
Name	**Matthew (Matt) Sullivan, PE, SP**		**Years of experience with this firm/employer**	15
Title	Bridge Inspection Team Leader		**Years of experience with other firm(s)/employer(s)**	1
Degree(s) / Years / Specialization			BS / 2007 / Civil Engineering	
Active registration number / state / expiration date			PE LA (0042490) – 09/30/2024	
Year registered	2013	**Discipline**	Civil Engineer	
Contract role(s) / brief description of responsibilities			**Bridge Inspection Team Leader** ***Relevant Training:*** *Safety Inspection of In-Service Bridges, 2011 (NHI-130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078); Bridge Inspection Refresher Training, 2018 (NHI-130053); Tunnel Safety Inspection, 2017 (NHI 130110); SPRAT-Level II Rope Access Technician, 2018; Inspection and Maintenance of Ancillary Highway Structures, 2015 (NHI 130087); OSHA 10-hour Hazard Recognition Training for the Construction; Licensed Drone Pilot, 2021*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
06/16 Reselected 2018-Ongoing	**TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas:** One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft tall fracture-critical steel arch pylon supporting the stays. Matt used rope access to gain the proper hands-on access required, and assisted with non-destructive testing, performed at problematic detail and crack locations.
06/16-Ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, Georgia:** One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages.

06/17-01/18	**MnDOT, St. Croix Bridge Inspection, Minnesota and Wisconsin:** Task leader/Team Leader for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints, and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. In addition to inspection, the scope of work included providing recommendations for updating the maintenance and inspection manual for the new signature structure. The 5,279- ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. Matt also assisted with the drone portion of the inspection.
07/16-Ongoing	**FDOT, Sunshine Skyway Bridge, 10-Year Asset Maintenance Contract, Tampa, Florida:** Team Leader, Complex Bridge Inspection tasks. Currently providing all technical support services to prime contractor. Support services include inspection of corridor bridges, including the Sunshine Skyway cable-stayed Bridge, and other engineering-related services, such as corrosion engineering, repair recommendations, and structural evaluations for emergency responses.
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed inspections and Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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.**
01/10-Ongoing	**TBTA (Triborough Bridge and Tunnel Authority), Biennial Bridge Inspections, New York:** Team Leader/Cable Specialist. Matt serves as Team Leader, specializing in cable inspection for WSP's TBTA inspection projects. He has inspected main suspension cables, suspender ropes and sockets, cable splay saddles, cable strands, strand shoes, eyebars, dehumidification systems, etc. Representative assignments include: Bronx Whitestone Bridge 2013 Biennial Inspection; Verrazano Narrows Bridge 2012 Biennial Inspection; Throgs Neck Bridge 2011 Biennial Inspection; RFK (Triborough) Bridge Mainline 2010 and 2016 Biennial Inspections.

Firm employed by: WSP USA Inc.				
Name	**Troy Torbett**		**Years of experience with this firm/employer**	11
Title	Safety Manager		**Years of experience with other firm(s)/employer(s)**	23
Degree(s) / Years / Specialization			BS / 1988 / Industrial Technology/Safety Engineering	
Active registration number / state / expiration date			Certified Safety Professional / 2003 / (17539)	
Year registered	2003	**Discipline**	Safety	
Contract role(s) / brief description of responsibilities			Safety Manager ***Relevant Training***: *OSHA Authorized Construction Trainer*	
Experience dates (mm/yy–mm/yy)	Troy Torbett has developed and implemented procedures that effectively control accident and health exposures and minimize citations from the Occupational Safety and Health Administration, and other federal, state and local regulatory agencies. He has more than 20 years of experience establishing and implementing environmental safety and health programs that reduce the frequency and severity of accidental loss; protect human, financial and physical assets; and create safety cultures through safety training and risk assessments.			
2001 - present	**WSP Safety Manager, Herndon, VA:** Troy is safety manager for the WSP east region providing safety consultation services to WSP and its operating companies employees. Responsibilities included: Reviewing project safety plans and continually improve the project safety plan process to ensure that all safety concerns of project site conditions and activities are assessed. Create monthly safety briefings. Maintain the WSP Occupational Safety and Health Management System programs and policies. Conduct project site safety inspections. Past inspections included bridge renovation projects, roadway and bridge construction projects, airport runway construction, and a rail yard expansion. Conduct safety training including the Bridge Inspection Safety Training, the Occupational Safety and Health Administration 10-Hour safety training, and the PM Café on hazard analysis and project safety plans at many WSP USA office locations.			
1989 - 2001	**American Semiconductor Manufacturing Company, Annapolis Junction, MD:** As an operating contractor for the National Security Agency, Troy served as a safety engineer responsible for environmental safety and health (ES&H) activities during construction, equipment installation and calibration and operations of a sub-micron semiconductor manufacturing facility. He established and implemented an ES&H program for the facility and personnel in accordance with the Occupational Safety and Health Administration, the Resource Conservation and Recovery Act, National Fire Protection Association, American National Standards Institute, Compressed Gas Association, uniform building codes, uniform fire codes, company standard operating procedures, and other applicable ES&H codes, regulations, and standards. The facility ES&H program included an industrial safety program, fire protection program, industrial hygiene program, and a hazardous materials management program. Additional responsibilities were to: Prepare and maintain workers' compensation claims. Develop a laser safety program, radiation safety program, safety standard operating procedures, a budget plan for safety, and safety training for facility personnel.			

Firm employed by: WSP USA Inc.				
Name	**Ricardo Cornejo, PE**		**Years of experience with this firm/employer**	8
Title	Team Leader / Load rater		**Years of experience with other firm(s)/employer(s)**	8
Degree(s) / Years / Specialization			BS / Civil Engineering / 2013	
Active registration number / state / expiration date			PE GA (PE047735) – 12/2022; MS (32323) – 12/2022; NC (052733) – 12/2022; SC (39466) – 6/2022; VA (0402064297) – 9/2023	
Year Registered	2021 (all)	**Discipline**	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Plan & Document Retrieval / Load Rater** ***Relevant Training****: FHWA Safety Inspection of In-Service Bridges, 2015 (NHI 130055); FHWA Prerequisite, 2015 (NHI 130101A;) ASNT Ultrasonic Testing Level I, 2017; Bridge Coatings Level 1, 2017 (BCC 12219); FHWA Introduction to Element Level Bridge Inspection, 2014; Confined Space Entry Training, 2017; American Red Cross Adult First Aid/CPR/AED; Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Inspection and Maintenance of Ancillary Highway; Structures, 2016 (NHI 130087); Aerial Training, 2017.*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed inspections and Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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.**
2018 - Ongoing	**NCDOT, Raleigh National Bridge Inspection Standards Inspections, Raleigh, North Carolina:** Ricardo is serving as the team leader for the in-service inspection of all of the City of Raleigh bridges. He is responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using WIGINS Elements Database. WSP provided inspections, report preparation, load ratings and repair prioritization for 58 municipal-owned structures across the city. The firm was also responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using the WIGINS Elements Database.

2014-2020	**NCDOT, NBIS Inspections, Charlotte, North Carolina:** Team leader for in-service inspection of City of Charlotte bridges. Ricardo is responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using WIGINS Elements Database. WSP performed National Bridge Inspection Standards safety inspections of highway structures and bridges.
2016	**RITBA, Rhode Island Turnpike and Bridge Authority, Bridge Inspection and On-Call Engineering Services, Rhode Island:** Ricardo assisted with inspection of the inside of both reinforced concrete box girders. WSP provided biennial, special inspection services of the Mount Hope Bridge, the Jamestown-Verrazzano Bridge and the Newport/Pell Bridge. WSP also provided on-call consulting regarding proper repair and future maintenance projects.
2013-Ongoing	**NCDOT, Bridge Inspection On-Call Services, North Carolina:** Ricardo is serving as the team leader on this contract performing National Institute of Building Sciences inspections. He is performing element based inspections on standard highway and stream overpasses. WSP was selected to provide state bridge inspection services on this task order contract for the North Carolina Department of Transportation. Safety inspections were conducted and reports were prepared for bridges in Columbus, Cumberland, Hoke, Iredell, Northampton, Robeson, Rockingham, Sampson, and Scotland Counties.

Firm employed by: WSP USA Inc.					
Name	**Raghu Surapaneni, PE**		**Years of experience with this firm/employer**	3	
Title	Bridge Inspection Team Leader		**Years of experience with other firm(s)/employer(s)**	27	
Degree(s) / Years / Specialization			MSE / Transportation / 1994 / Temple University ME / Structures / 1991 / University of Auckland, New Zealand B.E. / Civil Engineering / 1985 / Mysore University, India		
Active registration number / state / expiration date			PE LA (0038403) - 3/31/2024, NY (078829) - 7/31/2024, NJ (41257) - 4/30/2022, NC (038356) - 12/31/2022; MS (21001) - 12/31/2022, SC (38030) - 6/30/2022; PA (052322E) - 9/30/2023		
Year Registered	LA 2013; NY 2001; NJ 1998; NC 2011; MS 2012; SC 2020; PA 1997	**Discipline**	Civil Engineer		
Contract role(s) / brief description of responsibilities			**Site Visits / Load Rater** ***Relevant Training:*** *FHWA Safety Inspection of In-Service Bridges, 2023 (NHI 130055); FHWA Introduction to Safety Inspection of In-Service Bridges - WEB-BASED, 2013 (NHI 130101); FHWA Fracture Critical Inspection Techniques for Steel Bridges, 2002 (NHI 130078); FHWA Stream Stability and Scour at Highway Bridges, 2008 (NHI 135046); FHWA Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Bridge Inspection Nondestructive Evaluation Seminar - BINS, 2015 (NHI 130099A); FHWA Bridge Management Training Inspection Session, 1998; Confined Space Entry Training, 2021; AWS Certified Welding Inspection Seminar, 2015; OSHA 30 Hour Construction Safety Training, 2021.*		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
01/15 - 09/16	**LADOTD In-Depth Inspection of Complex Bridges, LA:** Project Manager and the Team Leader for the inspection of two cantilever truss bridges: I-10 Calcasieu River Bridge in Lake Charles, LA and I-10 Mississippi River in Baton Rouge, LA and one cable stayed bridge, John James Audubon Bridge. Planned, scheduled and performed in-depth inspections on truss bridges and approach spans of cable stayed bridge. Managed sub-consultants and vendors. Lead four inspection teams in inspecting approach and main spans of truss bridges. Prepared in-depth inspection reports for two truss bridges. Inspection equipment used include man lifts, snoopers and bucket trucks.
06/14 - 12/14	**LADOTD, LA1 Phase 2 Leeville to Golden Meadow, LA:** Project Engineer for the preliminary and final design of six miles of elevated highway. Performed design calculations, plan productions, LRFR load rating and QC/QA. Designed deck, superstructure and the substructure elements using LRFD design methodology.

2013 - 2015	**LADOTD, LA1 Phase 1 Leeville to Port Fourchon, LA:** Lead Inspection Team Leader for the inspection of Phase 1A: Fourchon to Leeville Bridge - Approximately 7 miles, 40-ft wide, two-lane elevated highway south of Leeville Bridge to LA 3090 in Port Fourchon; Phase 1B: Leeville Bridge Approaches and Connector - Two-lane interchanges and connector roads north and south of the Leeville Bridge; and Phase 1C: Leeville Bridge Replacement - Two-lane, fixed-span, high-level bridge (Tomey J. Doucet Bridge) over Bayou Lafourche. Structures include simple and multiple span, multi-beam, prestressed concrete and steel girder bridges. Performed inspections (2 Cycles) using boat, snooper and WZTC.
03/2021-12/2021	**GDOT Short Line Railroad Bridge Inspections, GA:** Team Leader. Mr. Surapaneni is the Team Leader for the inspection of GDOT's Short Line Railroad bridges. He is planning, scheduling and performing annual inspection of GVR and GNRR bridges. Inspection of deck including rails and ties; superstructure and substructure elements using hi-rail truck and boat. Prepared inspection reports in GIS Cloud with element level condition rating and repair priorities. He also performed QC review of reports.
10/16 - 03/20	**NCDOT Statewide Bridge Inspection Services, NC:** Raghu served as Lead Bridge Inspection Team Leader for the Bridge Safety Inspection Program for NCDOT statewide bridge inspection services. He prepared the estimate, scheduled inspections and coordinated with vendors and the NCDOT. Reviewed previous inspection reports to establish Work Zone Traffic Control (WZTC), access needs, and developed WZTC schedules for bridge inspection. Performed inspections using WIGINS computer program, issued Critical Findings and Priority Maintenance reports to the state as and when needed. He also performed quality control review of bridge inspection reports prepared by other teams. Inspected about 450 structures including simple and multiple span, multi-beam, thru-girder, steel pipe, and concrete box culverts, as well as concrete slab bridges. Responsible for use of access equipment including snoopers or Under Bridge Inspection Units (UBIU), Van lift, hydra platform and railroad flagmen, etc.
2012 - 2014	**MDOT: Lead Bridge Inspection Team Leader for NBI Inspection of Westbound and Eastbound bridges of US 84 over the Mississippi River in Natchez, MS (2 Cycles):** Westbound bridge is a 4,205 feet long cantilevered Warren through truss bridge and the Eastbound bridge is 4,202 feet long Continuous Steel Truss through deck bridge. Inspected truss and approach spans using man lifts, snooper and bucket truck. Prepared inspection reports including conclusions and repair recommendations.
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed inspections and Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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.**

Firm employed by: WSP USA Inc.					
Name	**Bo Yan, PhD, PE**			**Years of relevant experience with this employer**	4
Title	Load Rater			**Years of relevant experience with other employer(s)**	9
Degree(s) / Years / Specialization			PhD / 2019 / Civil Engineering / Syracuse University MS / 2013 / Civil Engineering / University of Florida		
Active registration number / state / expiration date			SC (40350) – 04/19/2024		
Year registered	2022	Discipline	Professional Engineer		
Contract role(s) / brief description of responsibilities			**Load Rater.** Dr. Bo Yan has 4 years of industrial experience performing the load ratings, load testing, and report writing for bridges and culverts across multiple state agencies, including South Carolina, North Carolina, Texas, Georgia, Virginia and DC. She has experience in the analysis and rating of in-service highway bridges and aerial structures, including curved steel girders bridges, cable bridges, prestressed concrete bridges, truss bridges, and substructures. Dr. Yan also has 5 years of research experience in modeling and analysis of prestressed concrete 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 time specified in the applicable MPR(s).**
2019 – Ongoing	**Bridge Inspection and Load Ratings, SCDOT:** Bo serves as Load Rater for bridges throughout SC. She performed analysis on over 200 structures, including steel and prestressed girders, reinforced concrete tee beams, precast and cast-in-place slabs, concrete arch bridges, and bridge substructures with deterioration, in accordance with the AASHTO MBE, 3rd Edition as well as the SCDOT Load Rating Guidance Document. She performed over 20 truss bridge and gusset plate load ratings throughout SC. She also assisted in the load testing of concrete/steel girder bridges and prestressed concrete channel bridges, including analysis of the test data and report writing.
2022 – Ongoing	**WMATA Bridge Load Rating, WMATA:** Bo assisted on the load ratings of WMATA bridges including aerial structures, and pedestrian bridges.
2022	**VDOT LOA17 Load Rating, VDOT:** Bo assisted on the load ratings of prestressed concrete structures based off the latest inspection report throughout Virginia.
2020-2021	**TxDOT Regular Inspections and Load Rating, TxDOT:** Bo has performed the load rating of a steel truss bridge and connections. She also assisted in the load rating of steel girder bridges.
2021	**GDOT Cable Bridge Rating, GDOT:** Bo performed load rating of the anchor piers of Talmadge Memorial Bridge and Sidney Lanier bridge and also assisted with the report writing.
2021	**VDOT LOA12 Load Rating, VDOT:** Bo assisted on the load ratings of steel structures based off the latest inspection report throughout Virginia.

Firm employed by: WSP USA Inc.				
Name	**William (Coley) Mitchell**		**Years of experience with this firm/employer**	11
Title	Bridge Inspection Team Leader /NDT		**Years of experience with other firm(s)/employer(s)**	0
Degree(s) / Years / Specialization			AS / 2011 / Architectural Engineering	
Active registration number / state / expiration date			NA	
Year registered	NA	**Discipline**	NA	
Contract role(s) / brief description of responsibilities			**Bridge Inspection Team Leader** ***Relevant Training****: FHWA Safety Inspection of In-Service Bridges, 2014 (NHI 130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078); ASNT Ultrasonic Testing Level I, 2015; ASNT Ultrasonic Testing Level II General Exam, 2016; Bridge Coatings Level 1, 2014 (BCC-12219); FHWA Introduction to Element Level Bridge Inspection, 2014; SPRAT Level I Rope Access Technician, 2014; SPRAT Level ll Rope Access Technician, 2017; FHWA Tunnel Safety Inspection, 2016 (NHI 130110); Confined Space Entry Training, 2017; FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017; American Red Cross Adult First Aid/CPR/AED; OSHA 30-hour Hazard Recognition Training for the Construction Industry, 2014; Bridge Inspection Refresher Training, 2018 (NHI 130053)*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, Statewide, South Carolina:** Field Operations Manager of this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC. All load ratings were completed with BrR. William utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection was needed. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, William oversaw 120 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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.**
03/16-Ongoing Reselected 2017	**TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas:** One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft tall fracture-critical steel arch pylon supporting the stays. William used rope access to gain the proper hands-on access required, and perform non-destructive testing on problematic detail and crack locations.

08/17-Ongoing	**TxDOT, Routine Bridge Inspections, Statewide, Texas:** Team Leader for hundreds of on/off-system routine bridge inspections throughout Texas. Work included creating and reviewing inspection reports within InspectTech, creating and submitting critical findings, and performing initial bridge inventory inspections.
06/16-Ongoing	**GDOT, Engineering Services for Cable-Stayed Structures, Georgia:** One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages.
06/17-01/18	**MnDOT, St. Croix Bridge Inspection, Minnesota and Wisconsin:** Team Leader for the initial, element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. In addition to inspection, the scope of work included providing recommendations for updating the maintenance and inspection manual for the new signature structure. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans.
2011-Ongoing	**2011-2022 NCDOT, NBIS Bridge Inspection Team Leader, Statewide, North Carolina:** Project Manager. William has been involved with the NCDOT bridge inspection program for 10 years. He has performed field inspections, analysis and load ratings; evaluated the physical condition; and recommended preservation and maintenance needs. To date he has completed over 1,500 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses.

Firm employed by: **WSP USA Inc.**				
Name	**Raul Acosta-Garcia**		**Years of experience with this firm/employer**	6
Title	Team Leader		**Years of experience with other firm(s)/employer(s)**	15
Degree(s) / Years / Specialization			BS / 2006 / Civil Engineering	
Active registration number / state / expiration date			NA	
Year Registered	NA	**Discipline**	Structural Engineering	
Contract role(s) / brief description of responsibilities			**Site Visits** ***Relevant Training:*** *FHWA Safety Inspection of In-Service Bridges, 2007 (NHI 130055); Bridge Inspection Refresher Training, 2017 (NHI 130053); Fracture-Critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078)); FHWA Inspection and Maintenance of Ancillary Highway; Structures, 2015 (NHI 130087)*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.**
2016 - 2021	**TxDOT, Fracture Critical Inspection Contract, Statewide, Texas:**Ross serves as a bridge engineer and inspector for fracture-critical inspections of bridges throughout Texas. He obtains rail right of entry as needed, organizes and performs inspections, writes and reviews inspection reports, and analyzes structural elements as required to assess the severity of defects. Bridges have ranged from off-system low ADT structures to signature bridges such as the Margaret Hunt Hill cable-stayed bridge. The use of technical climbing and rope access techniques is often required. Performs non-destructive testing as necessary on fatigue-prone details, primarily to determine limits of fatigue cracks found in fracture-critical members.
2013	**VDOT, Region IV Bridge Maintenance and Repair, Northern Virginia:** Team leader involved in the bridge inspection and deck evaluation prior to the development of the bridge superstructure, deck replacement, and substructure repairs of structures and bridges. Duties included writing inspection report, developing sketches, and coordinating with vendors (access equipment and Maintenance of Traffic) and Northern Region Operations Transportation Operations Center.
2016-Ongoing	**NCDOT, Structure Management Support, North Carolina:** Team leader for NBIS inspection of multiple bridges. Bridge types include steel girder, segmental concrete box girder, concrete deck girders, steel truss, timber girders, and prestressed girders, concrete culverts, and corrugated metal pipes. Served as a reviewer for bridge inspection reports. WSP provided statewide bridge designs for the North Carolina Department of Transportation, including plan preparation, working drawing reviews, and bridge rehabilitation plans. over Little Yadkin River, and the rehabilitation of Bridges 15 and 16 on the Winston-Salem Northern Beltway.

Firm employed by: WSP USA Inc.				
Name	**Bryan Sweeney, EI**		**Years of relevant experience with this employer**	3
Title	Load Rater		**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering / Clemson University	
Active registration number / state / expiration date			Engineering Intern – SC	
Year registered	NA	Discipline		
Contract role(s) / brief description of responsibilities			Bryan Sweeney has seven years of experience performing the inspections, load ratings, and report writing for bridges and culverts across multiple state agencies, including North Carolina, South Carolina, and Virginia. He also has experience in the analysis and load rating of in-service structures, including steel girders, prestressed concrete girders, and slab bridges.	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2021 – Ongoing	**WMATA Bridge Inspection and Load Rating, Washington, DC:** Bryan serves as Load Rater/Team Leader for structures carrying pedestrian and WMATA rail vehicles on a variety of structures including steel and concrete multi-girder, concrete box beams, culverts, and steel trusses. He also serves as the point of contact with the prime consultant, coordinating all new guidance and policy changes with the team.
2019 - Ongoing	**City of Raleigh Inspections and Repairs, North Carolina:** Serves as Team Leader. Tasks under this contract include field inspections, report preparation, load ratings and repair prioritization for 58 municipal owned bridges, culverts and pipes across the City.
2019 - Ongoing	**SCDOT Bridge Inspection and Load Ratings, South Carolina:** Bryan serves as Load Rater/Team Leader for bridges throughout SC. He performed site assessments and analysis on over 200 structures, including steel and prestressed girders, reinforced concrete tee beams, precast and cast-in-place slabs, and steel trusses, in accordance with the AASHTO MBE, 3rd Edition as well as the SCDOT Load Rating Guidance Document.
2017 - 2019	**NCDOT NBIS Bridge Inspections, North Carolina:** Bryan has served as Team Leader/Load Rater on over 200 NBIS Inspections throughout the state of North Carolina for in-service bridges and assisted with load rating of CMP culverts.
2016 - 2017	**GDOT I-75 Corridor Expansion, Georgia:** Performed design reviews of steel and prestressed concrete structures for I-75 corridor expansion.

Firm employed by: WSP USA Inc.				
Name	**Brittany Cauthen, EI**		**Years of relevant experience with this employer**	3
Title	Bridge Inspector/Load Rater		**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering / North Carolina State University	
Active registration number / state / expiration date			EI – NC	
Year registered	NA	Discipline		
Contract role(s) / brief description of responsibilities			**Bridge Inspector/Load Rater** Ms. Brittany Cauthen has 3 years of experience performing the inspection, analysis and ratings for bridges and culverts for NCDOT and SCDOT. ***Relevant Training****: NHI 130055 Safety Inspection of In-Service Bridges, 2021; OSHA 10Hr - Construction Safety and Health, 2018; OSHA 30Hr – Construction, 2021; AMERICAN RED CROSS Adult First Aid/CPR/AED; Fall Protection, 2020; CSC and NS Roadway Worker Protection Contractor Safety, 2020; SPRAT certified Level 1, 2021*	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2019-Ongoing	**Cable-Stayed Bridge Engineering Services, GDOT:** Assistant Team Leader. Ms. Cauthen served as an Assistant Team Leader for the special inspections and rehabilitation efforts of the Talmadge Memorial cable-stayed bridge. A rehabilitation of the Talmadge Memorial was completed in 2015 to primarily address deficiencies associated with cable vibration and fatigue cracking.
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed inspections and Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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**
2019	**Liberty Bridge Inspection, Greenville, South Carolina:** Assistant Team Leader. Ms. Cauthen served as an Assistant Team Leader on the Liberty Bridge inspection. The Liberty Bridge is a 3-span suspension cable bridge exhibiting a curved concrete deck supported by a rib and ring cable superstructure.
2020-2021	**Load Ratings, TxDOT, Texas:** Assistant Team Leader. Ms. Cauthen served as an Assistant Team Leader on TxDOT load ratings throughout the state of Texas. She has prepared load ratings reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for simple and continuous spans. Work was performed in accordance with the AASHTO MBE, 3rd Edition as well as the 2020 TxDOT Load Rating Guidance Document.

Firm employed by: WSP USA Inc.				
Name	**Victor Zhang, EI**		**Years of relevant experience with this employer**	3
Title	Bridge Inspector/Load Rater		**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization		BS / 2018 / Civil Engineering / North Carolina State University		
Active registration number / state / expiration date		EI - NC		
Year registered	NA	Discipline		
Contract role(s) / brief description of responsibilities		Mr. Victor Zhang is structural engineer. He has over 2 years of experience in the inspection, analysis, asset management and construction engineering services for numerous bridges and culverts. Victor has load hundreds of bridges including steel girder, reinforced concrete girder, reinforced concrete slab, Prestressed concrete girder, and reinforced concrete box girder for the SCDOT Load Rating Project. ***Relevant Training:*** *OSHA 10 Hr. – General Industry*		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2022-Ongoing	**WMATA Bridge Inspection and Load Rating:** Load Rater for structures carrying pedestrian and WMATA rail vehicles on a variety of structures including steel and concrete multi-girder, concrete box beams, culverts, and steel trusses.
2021-Ongoing	**METRA Rail Bridge Inspections:** Assistant Team Leader. Victor is performing inventory level inspections for METRA, Chicago transit agency. Structures inspected include multi-beam, girder/floorbeam, trusses, culverts, and tunnels.
2021-Ongoing	**Town of Morrisville Pedestrian Bridges Inventory and Inspections:** Assistant Team Leader. Victor is performing inspections and assisting with reports for 21 pedestrian structures for the Town of Morrisville greenways, trails, and parks.
7/18-12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Performed inspections and Load ratings for this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC within 3 years. All load ratings were completed with BrR. In addition, assisted with 160 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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**
2019-Ongoing	**City of Raleigh Inspections and Repairs, NC:** Assistant Team Leader. Tasks include field inspections, report preparation, load ratings and repair prioritization for 58 municipal owned bridges, culverts and pipes across the City.
2018-Ongoing	**Bridge Inspection and Asset Management Program, Town of Cary, NC:** Assistant Team Leader, performed routine inspections of 176 pedestrian structures on the Cary Greenways and parks. Incorporated new inventory structures into the asset management program.

Firm employed by: WSP USA Inc.				
Name	**Hamid Yaghoubi, EI**	Years of relevant experience with this employer		4
Title	Load Rater	Years of relevant experience with other employer(s)		8
Degree(s) / Years / Specialization		Masters / 2020 / Business Administration MS / 2018 / Structural Engineering BS / 2015 / Civil Engineering		
Active registration number / state / expiration date		NA		
Year registered	NA	**Discipline**	Structural Engineering	
Contract role(s) / brief description of responsibilities		**Load Rater**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).
12/21-Present	**LADOTD, Statewide Rehabilitation of Movable Bridges, Louisiana:** Structural engineer for the inspection and rehabilitation/replacement of five movable bridges in the state of Louisiana. WSP USA is providing inspection/design services for the Louisiana Department of Transportation and Development for multiple movable bridges in the state of Louisiana. Hamid’s duties include preparing the scope of woke proposal, fee proposal, and other project management work as needed. Hamid is also responsible for supporting the structural efforts throughout this project, including performing load rating analysis and design work as needed.
07/21-11/21	**LADOTD, P3 Advisory Services On-call, Louisiana:** Structural engineer for this on-call project. WSP USA is providing advisory services for the Louisiana Department of Transportation and Development. Hamid’s duties include providing structural engineering support as needed. The last task included performing a risk analysis on the Calcasieu bridge and conducting a ship impact study to provide recommendations for the client.
06/19-10/19	**Texas Central Railway, Texas High-Speed Rail, Houston - Dallas, Texas:** Structural engineer for the design of various bridge components. WSP USA is providing design services for Texas Central Railway. The Structural portion of the project includes the design of several bridges including, typical prestressed and steel bridges, as well as complex bridges. Hamid’s duties include analysis and design of various components of different bridges per the demand of the project, developing design calculations, preparing bridge final design plans, and conducting quality control. Hamid also worked with the Complex Bridge Group in WSP, and he designed 10 ft, 20 ft, 30 ft, and 40 ft span Arch Culvert Bridges and their related components including, wing walls, and retaining walls for phase three of the project.

10/18- 05/20	**NCDOT, I-485 over Westinghouse Rd, Charlotte, North Carolina:** Bridge engineer for the design of a prestressed concrete bridge. WSP USA provided design services for the North Carolina Department of Transportation for the design-build project over Westinghouse Boulevard. The project includes the replacement and widening of the existing bridges. Hamid's duties 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.
01/22-Present	**Mississippi DOT, US 98 over Homochitto River, Charlotte, Mississippi:** Bridge engineer for the design of a concrete bridge. WSP USA is providing design services for the Mississippi Department of Transportation. The project includes the replacement of the existing bridge. Hamid's duties include modeling, analysis, and design of different bridge components. Hamid is also responsible for providing project management services as needed.
06/20-10/20	**NCDOT, I-540 (R2828), Raleigh, North Carolina:** Bridge engineer for the design of a prestressed concrete bridge. WSP USA is providing design services for the North Carolina Department of Transportation. Hamid's duties include modeling, analysis, and design of the bridge superstructure and substructure along with preparing bridge final design plans.

16. Staff Experience:

SUBCONSULTANTS – Buchart Horn, Inc.

Firm employed by	BUCHART HORN			
Name	**Kevin J. Gaspard, PE**		Years of relevant experience with this employer	2
Title	**Senior Civil Engineer**		Years of relevant experience with other employer(s)	35
Degree(s) / Years / Specialization			BS / 1984 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date			PE.0023835 / LA / Exp. 03/2023	
Year registered	1990	Discipline	Civil Engineering	
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 time specified in the applicable MPR(s).
	Mr. Gaspard is a Senior Transportation Engineer who joined BH's Baton Rouge team in 2020 after retiring from LADOTD. While at LADOTD, he worked in the Road Design section for nine years as a design team leader and 24 years as the Pavement and Geotechnical manager at the Louisiana Transportation Research Center. He has over 60 publications in International Journals. Mr. Gaspard has over 39 years of engineering experience and is a highly skilled Project Manager.
01/21 – Ongoing	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection.
04/21 – Ongoing	**New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA.** This intersection historically involved high frequency and high severity crashes. This project is funded through the MoveAscension Initiative and addresses traffic mobility and safety issues. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design will comply with state and federal guidelines and receive LADOTD review and approval.
03/20 – Ongoing	**Citrus Boulevard Improvements Traffic Engineering, Jefferson Parish, LA.** BH provided traffic engineering and related services for upgrades of two intersections along Citrus Boulevard, in conjunction with roadway improvements, to accommodate the installation of a left turn lane, as well as removal and replacement of detection loops. The project included minor improvements at two intersections: Modification of a traffic signal due to the addition of left turn movement at Edwards Avenue and Citrus Boulevard and removal and replacement of loops at Dickory Avenue and Citrus Boulevard intersection. Plans provided to Jefferson Parish consisted of a traffic signal layout, including a phasing, signal

	wiring, an electrical schedule, signal head types, and sign layouts. Existing signal equipment in the field was inventoried and coordinated with the parish to determine best means of utilizing existing equipment.
03/20 – Ongoing	**I-110 at Terrace Avenue Ramp Modification Construction Services, LADOTD, Baton Rouge, LA.** BH designed street lighting associated with the construction of a new off-ramp from I-110 in Baton Rouge and is now providing construction administration services for the portion of the project designed by us. Services to be performed by BH include review contractor electrical submittals, attending periodic meetings, providing electrical as built plans and O&M manual, and providing an Arc-flash report. DOTD will provide inspection services for the ramp reconstruction and improvements.
01/21 – Ongoing	**I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA.** BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project.
10/20 – Ongoing	**On-Call Contract for Electrical Services, LADOTD, Statewide, LA.** Five-year contract providing as-needed electrical engineering services. Services may include but are not limited to highway lighting, navigational lighting, mechanical/electrical design and other related electrical work.
10/20 – Ongoing	**US 165 Roadway Lighting, LADOTD, Monroe, LA.** BH is providing surveying, Subsurface Utility Engineering (SUE) services, preparing design plans, specifications, illumination analysis, engineering calculations, transportation management plans (TMP), and construction cost estimates for the development of a complete lighting system for approximately four miles along US 165 in Ouachita Parish. All engineering services provided as part of this project are being conducted and completed based on LADOTD standards and guidelines.
08/20 – 08/21	**West Metairie Avenue Restoration, Infinity Engineering Consultants, Jefferson Parish, LA.** Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization.
06/20 – Ongoing	**New Lighting Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA.** BH is providing construction management services for installation of new highway lighting at the I-55 and LA 22 interchange. Lighting includes high-mast and pole-mounted lights. Lighting is LED and will have smart intelligence to monitor lights. Construction inspection services will be performed by a subconsultant. Project Manager
06/20 – Ongoing	**West Bank Group B Street Improvements, City of New Orleans DPW, Algiers, LA.** BH is developing preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements will include mill and overlay with full depth patching; other incidental road repairs will be required in certain sections of the project area. Following design, construction administration and resident inspection services will be provided during construction of the project. Project Manager
06/20 – Ongoing	**Harrison Avenue Improvements Design, Phase I, St. Tammany Parish, Covington, LA.** Conducted a feasibility study and subsequent design and construction management of recommended improvements. Our staff evaluated two proposed alternates for the reconstruction of Harrison Avenue and is now providing design services for the selected concept – a two-lane roadway with raised median, sidewalks, and subsurface drainage. Project Manager

Firm employed by	BUCHART HORN			
Name	**James Q. Dickerson, III, PE, PLS**		Years of relevant experience with this employer	15
Title	**Vice President –Southern Transportation Operations**		Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization			BS / 1974 / Civil Engineering, University of Mississippi	
Active registration number / state / expiration date			07586 / MS / Exp. 12/2023; PE.0038922 / LA / Exp. 09/2024 PLS-02132 / MS / Exp. 12/2023	
Year registered	1979	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.			**Principal-in-Charge and QA/QC**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Dickerson has more than 49 years of professional transportation engineering experience. He served as District Engineer for the Mississippi Department of Transportation's District Two, where he was responsible for coordinating the planning, designing, construction, and maintenance of the intermodal transportation network in the 17 counties of northwest Mississippi. Mr. Dickerson's areas of expertise include project management, quality assurance, constructability review, and construction engineering and inspection.
02/16 – 01/17	**Stage 0 Study, East Vine Street (US 190), LADOTD, Opelousas, LA.** BH performed a Stage 0 Study to evaluate the feasibility of resolving subsurface utility, clear zone, and roadway corridor inadequacies along East Vine Street (US 190) for approximately 2.10 miles from the intersection of LA 104 and US 190 to the merge of East Vine Street and East Landry Street. Principal-in-Charge with quality control oversight.
02/2 – Ongoing	**Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA.** BH prepared an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. Principal-in-Charge with quality control oversight.
04/13 – 7/21	**US 84 Improvements, LADOTD, Winnfield, LA.** Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. Principal-in-Charge with quality control oversight.
04/14 – 09/17	**LA 19 Widening (LA 64 to Sunset Boulevard), Feasibility and Planning Study, LADOTD, Baton Rouge, LA.** BH prepared a Feasibility and Planning Study and Environmental Inventory according to the LADOTD Manual of Standard Practice to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary. An additional cost estimate was developed at the request of the client for the widening of LA 19 from LA 64 to Montegudo Boulevard. Principal-in-Charge with quality control oversight.

12/15 – 01/21	**US 167 Feasibility and Planning Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA.** BH prepared a feasibility and planning 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. Principal-in-Charge with quality control oversight.
07/17 –Ongoing	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, SUE, and construction engineering and inspection. Principal-in-Charge with quality control oversight.
07/17 –Ongoing	**New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA**. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. Principal-in-Charge with quality control oversight.
12/15 – 12/20	**Retainer Contract for Feasibility and Planning Studies, LADOTD, Statewide, LA.** Five-year retainer contract to perform feasibility and planning studies for various transportation projects throughout Louisiana. BH has previously been awarded several similar contracts. Work will be assigned by task order over the life of the contract. Principal-in-Charge with quality control oversight.
05/21 – Ongoing	**Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive. Principal-in-Charge with quality control oversight.
03/19 – Ongoing	**LA 117 from LA 8 to LA 118 Feasibility and Planning Study and Environmental Inventory, LADOTD, Leesville, LA.** BH performed a Feasibility and Planning Study (referred to by the LADOTD as a "Stage 0" study) for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry along with adding shoulders to adding passing lanes and turn lanes at strategic locations. Environmental impacts and cost estimates were prepared. Principal-in-Charge with quality control oversight.
03/19 – 02/20	**LA 429 Connector Feasibility and Planning Study, LADOTD, Ascension Parish, LA.** BH prepared a Feasibility and Planning Study to evaluate alignments for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The purpose of the new LA 429 connector road is to create another route for motorists to travel from LA 30 to US 61, decreasing travel time along existing corridors. Two alternatives for the widening and reconstruction of LA 429 will be evaluated. The scope consists 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. Principal-in-Charge with quality control oversight.

Firm employed by	BUCHART HORN				
Name	**Wm. Andrew Pinkley, PE, CPESC**		Years of relevant experience with this employer	20	
Title	**Senior Civil Engineer**		Years of relevant experience with other employer(s)	18	
Degree(s) / Years / Specialization			MS / 1992 / Civil Engineering, Memphis State University; BS / 1984 / Civil Engineering, The University of Tennessee		
Active registration number / state / expiration date			20453 / TN / Exp. 01/2023; 16759 / MS / Exp. 12/2023; 63244 / FL / Exp. 02/2023; 14929 / AR / Exp. 12/2023; PE.0040713 / LA / Exp. 09/2024; PE031644 / GA / Exp. 12/2023		
Year registered	1989	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities.			**QA/QC, Roadway Design, Construction Support**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Pinkley has more than 39 years of experience in the management and design of civil engineering projects. His experience with governmental work has involved the planning, design, and construction of major transportation-related projects, including airports, highways, and rail and port facilities in Tennessee, Louisiana, Mississippi, Arkansas, and Florida. His experience in the development and construction of private facilities has led to an understanding of the relationships among the different design disciplines required in such projects. Recently, he has been managing several Roadway Safety Audits throughout West Tennessee
12/03 – 06/05	**Highway 82 Improvement Study, ArDOT, Stamps, AR.** Planning study for a section of rural two-lane highway and the roadways intersecting it through the town of Stamps, Arkansas to determine if any deficiencies exist along this section of SR 82 and with its intersections at other state routes and local roads. Performed highway capacity analysis to determine capacity and investigation crash records to pinpoint any problem areas. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report and oversight, as well as coordinating with prime consultant of engineering studies to identify deficiencies and recommend improvements.
06/20 – 01/21	**US 190 Roadway and Bridge Improvements, LA 437 to Business US 190, LADOTD, St. Tammany Parish, LA.** Stage 3 design for preliminary and final plans for road and bridge improvements. Geotechnical engineering and a traffic management plan will be included via supplemental agreement. BH is responsible for design development in preliminary and final design plan stages. Services are being provided in support of prime consultant T. Baker Smith.
05/10 – 09/10	**US 72 Traffic Signalization Study and Optimization, Mississippi Department of Transportation, Corinth, MS.** Development, refinement, and implementation of coordinated traffic signal timing plans for eight signalized intersections in the city of Corinth, MS. Plans preparation for the upgrading of the signals were developed for implementation by MDOT personnel. Senior Engineer responsible for providing technical guidance to staff during traffic study and report preparation and performing QC reviews with design staff to ensure project met client's standards.

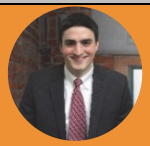
04/13 – 05/14	**Traffic Calming Feasibility Study, City of Memphis, TN.** Conducted traffic studies to determine the potential effectiveness of installing traffic calming devices and speed humps at 71 sites throughout Memphis. Typical activities included speed and volume studies, data collection and traffic studies, and device placement and petition packages. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report. Also responsible for oversight and coordination with prime consultant of engineering studies to identify deficiencies and recommend improvements.
10/11 – 11/11	**Site Impact Study and Signal Warrant Analysis, Seeker Properties of Mississippi V, LLC, Oxford, MS.** Study to determine impacts of new development upon street system and whether a signal is warranted at intersection of Jackson Avenue and Harris Drive. Required conducting turning movement counts and performing a warrant study based on the additional traffic. Senior Engineer responsible for providing technical oversight and QA reviews of study and performing administrative tasks for project.
07/04 – 10/04	**Large Sanitary Sewer Interceptor Condition Inspection and Engineering Study, Memphis, TN.** Sewer interceptor (42-inch or greater) condition inspection and engineering study of approximately 80% of the City's 98 miles of interceptor, encompassing the Loosahatchie, Wolf, and Nonconnah River Basins and Beale and Front Streets. Project Manager responsible for inspecting sewer lines and providing technical guidance to staff during report preparation, performed QC reviews with design staff to ensure project met client's standards, as well as oversight and coordination with client.
08/03 – 06/05	**James Street Interchange/Overpass Traffic Study, Parsons Brinckerhoff/ArDOT, Jacksonville, AR.** Study of an urban interchange to identify roadway and traffic signal deficiencies. Short- and long-term improvements were recommended. Used HCM software and client-provided traffic movement counts and analyzed the existing signals, frontage roads, and unsignalized intersections. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report and oversight and coordinating with prime consultant of engineering studies to identify deficiencies and recommend improvements.

Firm employed by	BUCHART HORN				
Name	**Caldwell (Cal) P. Joy, PE**		Years of relevant experience with this employer	2	
Title	**Senior Transportation Engineer**		Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization			BS / 2012 / Civil Engineering, University of Alabama		
Active registration number / state / expiration date			PE.0043830 / LA / Exp. 03/2024		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities.			**Roadway Design**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Joy has more than 11 years of experience in the field of civil engineering. Design projects he has worked on include roadway rehabilitation, new construction, widening, sidewalk design, signal design, standard intersection, and roundabout design for state highways and local roads. He is primarily responsible for design plan preparation and detailing, typical section development, design quantity calculations, and cost estimation, which require extensive use of MicroStation and InRoads.
02/21 – Ongoing	**Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA.** Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. Project Manager
02/21 – 07/21	**US 84 Improvements, LADOTD, Winnfield, LA.** Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies.
06/21 –Ongoing	**New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA.** This intersection historically involved high frequency and high severity crashes. This project is funded through the MoveAscension Initiative and addresses traffic mobility and safety issues. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design will comply with state and federal guidelines and receive LADOTD review and approval.
03/21– Ongoing	**LA 3040 Corridor Improvements Study, LADOTD, Houma, LA.** BH performed a study to identify safety and/or 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.
06/21– Ongoing	**Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive. Project Manager

02/21 – 02/21	**I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA.** BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project.
03/21 – 10/21	**Retainer Contract for Safety Studies, LADOTD, Statewide.** BH was awarded a five-year retainer contract for planning studies. Tasks will include Feasibility and Planning studies (referred to by the LADOTD as "Stage 0" Studies), road safety studies, preliminary and final road design plan development, specifications, and engineers' estimates for low-cost safety improvements, safety effectiveness evaluations, crash evaluations, and traffic analysis.
08/21 – 09/21	**West Metairie Avenue Restoration, Infinity Engineering Consultants/Jefferson Parish, LA.** Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization.
02/17 – 09/20	**Endom Bridge Approach Realignment, Ouachita Parish, Safe Routes to Schools/Local Road Safety Program in West Monroe, LA.** This intersection at Endom Bridge had some serious sight distance issues and safety concerns coming off the bridge, as well as, high pedestrian volume in the area. The improvements made was an intersection realignment for better sight distance, allowing trucks to make adequate turning movements off the bridge, and safely transporting pedestrians off the bridge and into the neighborhoods.
11/17 – 06/19	**Ouachita Parish Police Jury Sidewalks, Ouachita Parish, Safe Routes to Schools/Local Road Safety Program in West Monroe, LA.** This project involved constructing sidewalk around three schools: Riser Elementary, Shady Grove Elementary, and Jack Hayes Elementary. Approximately 2.3miles of sidewalk needed updating. A new redesign of all current sidewalks out there was needed to meet current LADOTD standards and help safely transport pedestrians. Updated widths, slopes, lengths, drainage, and driveways were all needed to successfully complete this project. Construction support was also supplied on this project for the contractor. SRTS/LRSP – TO#14 Farmerville Sidewalk
04/18 – 09/19	**Town of Farmerville Sidewalks, Union Parish, Safe Routes to Public Places Program in Farmerville, LA.** This project was a set of two sections of sidewalks. One was to help transport pedestrians to the local school and the other was to help transport pedestrians to the library. Approximately 1.14 miles of sidewalk needed updating or newly constructed so they met current LADOTD standards and help safely transport pedestrians. Updated widths, slopes, lengths, drainage, and driveways were all needed to successfully complete this project. Construction support was also supplied on this project for the contractor.

Firm employed by	BUCHART HORN				
Name	**Joseph F. Mingo, PE**		Years of relevant experience with this employer	8.5	
Title	**Civil Engineer**		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date			PE.0043700 / LA / Exp. 03/2024		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities.			**Roadway Design**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Mingo has more than 8 years of experience working on projects related to road design. He has worked on roadway rehabilitation, widening, roundabout, and lighting design projects. His primary responsibilities include design development, design plan preparation and detailing, design quantity calculations, and cost estimation. These duties require extensive knowledge and use of MicroStation and InRoads design software.
02/16 – 01/17	**Stage 0 Study, East Vine Street (US 190), LADOTD, Opelousas, LA. Preparation of** a Stage 0 Study to evaluate the feasibility of resolving subsurface utility, clear zone, and roadway corridor inadequacies along East Vine Street (US 190) for approximately 2.10 miles from the intersection of LA 104 and US 190 to the merge of East Vine Street and East Landry Street.
08/15–Ongoing	**Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA.** Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. Project Designer responsible for meeting materials, report preparation, and cost estimation.
06/14 – 07/20	**US 84 Improvements, LADOTD, Winnfield, LA.** Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. Project Designer responsible for report preparation.
03/19 – 06/20	**LA 117 from LA 8 to LA 118 Feasibility and Planning Study and Environmental Inventory, LADOTD, Leesville, LA.** BH performed a Feasibility and Planning Study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry along with adding shoulders to adding passing lanes and turn lanes at strategic locations. Environmental impacts and cost estimates were prepared. Project Designer responsible for assisting with concept development and project exhibits.
09/15 – 03/17	**LA 19 Widening (LA 64 to Sunset Boulevard), Feasibility and Planning Study, LADOTD, Baton Rouge, LA.** BH prepared a Feasibility and Planning Study and Environmental Inventory according to the LADOTD Manual of Standard Practice to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary. An additional cost estimate was developed at the request of

	the client for the widening of LA 19 from LA 64 to Montegudo Boulevard. Project Designer responsible for alternative development, crash and safety analysis, environmental documentation, report preparation, and cost estimation.
06/19 – 02/21	**US 167 Feasibility and Planning Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA.** BH prepared a feasibility and planning 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. Project Engineer responsible for CATscan safety analysis.
10/17 –Ongoing	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection. Project Designer Project Engineer responsible for using MicroStation and InRoads to design and prepare plans for a single-lane roundabout as a part of the MoveAscension initiative, using LADOTD HYDR programs and InRoads Storm & Sanitary to design the subsurface drainage, and coordinating with the client to incorporate any wants and concerns.
08/18–Ongoing	**New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA.** BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. Project Engineer responsible for preparing 30% design plans and other documents for submittal at various stages of the project.
09/17 – 02/21	**Retainer Contract for Feasibility and Planning Studies, LADOTD, Statewide, LA.** Five-year retainer contract to perform feasibility and planning studies for various transportation projects throughout Louisiana. BH has previously been awarded several similar contracts. Work will be assigned by task order over the life of the contract. Project Designer responsible for preparing exhibits for task order discussion.
11/18 –Ongoing	**LA 3040 Corridor Improvements Study, LADOTD, Houma, LA.** BH performed a study to identify safety and/or 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. Project Designer responsible for performing peak period observations in the field and safety analysis using CATScan.
06/21– Ongoing	**Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive.
03/19 – 09/20	**LA 429 Connector Feasibility and Planning Study, LADOTD, Ascension Parish, LA.** BH prepared a Feasibility and Planning Study to evaluate alignments for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The scope consists 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.

Firm employed by	BUCHART HORN				
Name	**Hugo A. Leiva, EI, EIT**			Years of relevant experience with this employer	2
Title	**Civil Engineer-in-Training**			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization				Bachelor of Science/2018/Civil Engineering/Louisiana State University	
Active registration number / state / expiration date				Engineer Intern: LA, OSHA 10-hour Construction Safety & Health	
Year registered	2019	Discipline		Civil Engineering	
Contract role(s) / brief description of responsibilities.				**Roadway Design**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Leiva is a Civil Engineer-in-Training who joined BH's Baton Rouge team in 2020. During his time with BH he has gained experience by supporting multiple LADOTD On-Call Contracts, including two Electrical Engineering retainers and a Safety Studies retainer. Mr. Leiva is also supporting the Move Ascension Roadway Design Services retainer along with multiple other Louisiana projects and studies to acclimate himself to LA roadway specifications and designs.
09/20 – Ongoing	**Harrison Avenue Improvements Design, St. Tammany Parish, Covington, LA.** Conducted a feasibility study and subsequent design and construction management of recommended improvements. Our staff evaluated two proposed alternates for the reconstruction of Harrison Avenue and is now providing design services for the selected concept – a two-lane roadway with raised median, sidewalks, and subsurface drainage. Engineer Intern/Engineer-in-Training
12/20 - Ongoing	**West Bank Group B Street Improvements, City of New Orleans, LA.** BH is developing preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements will include mill and overlay with full depth patching; other incidental road repairs will be required in certain sections of the project area. Following design, construction administration and resident inspection services will be provided during construction of the project. Engineer Intern/Engineer-in-Training
01/21 – Ongoing	**LA 1/LA 415 Connector Study, LADOTD, Port Allen, LA.** BH is performing a preliminary study to evaluate roadway lighting for a new roadway connecting I-10 to LA 1 in West Baton Rouge Parish. The study will also evaluate navigational lighting for the new bridge over the intercoastal waterway. Following the preliminary study, final design will be performed by supplemental agreement. Engineer Intern/Engineer-in-Training
06/21 –Ongoing	**Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive. Engineer Intern/Engineer-in-Training
10/20 –Ongoing	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection. Engineer Intern/Engineer-in-Training

03/21 –Ongoing	**LA 3040 Corridor Improvements Study, LADOTD, Houma, LA.** BH performed a study to identify safety and/or 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. Engineer Intern/Engineer-in-Training
10/20 – 08/22	**Move Ascension Roadway Design Services, Ascension Parish, LA.** On-call contract to provide professional engineering design and related services for the Move Ascension Parish Program initiative. LADOTD standards, references, manuals, quality control, and format requirements are required for all projects. The general scope for task orders may include any of the following: topographic survey, preliminary roadway plans, preliminary bridge plans, final plans, geotechnical investigation, subsurface utility engineering (SUE), right-of-way maps, construction engineering and inspection (CE&I), bidding, value engineering studies, permit sketches, and Stage 0 feasibility studies. Engineer Intern/Engineer-in-Training
08/21 – 09/21	**West Metairie Avenue Restoration, Infinity Engineering Consultants/Jefferson Parish, LA.** Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization. Engineer Intern/Engineer-in-Training

Firm employed by	BUCHART HORN				
Name	**David M. Britner**		Years of relevant experience with this employer	13	
Title	**CADD Technician**		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization			Bossier Parish Community College - Coursework		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities.			**Roadway/Highway Design**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Britner has over 29 years of experience in civil design as a CADD Technician. His civil experience includes highway plans (LADOTD), city streets, drainage, geometric details, signing/striping, quantities for earthwork, summary tables, and quantities estimates. He has also prepared clearing/grubbing plans, sanitary sewer designs, waste water treatment plants, sewer pumping stations, and drainage basins. Mr. Britner also has three years of experience as a GIS Analyst. During that time, he was responsible for the overall supervision and coordination of data input and output. Mr. Britner has extensive experience with ESRI software, Arc/Info 8.1, Arc/View 8.1.2, and ArcMAP 10.2. He has also been responsible for GPS data, inventory, map-making, data input, database records, and overall quality assurance for projects. Mr. Britner has been performing and preparing design plans for the lighting projects for the LADOTD and ensuring the plans are uploaded into the LADOTD ProjectWise web site.
08/10 -03/12	**Houma-Thibodaux to I-10 Corridor EIS, LADOTD, Southeastern LA.** Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. CADD Coordinator responsible for providing GIS services.
08/13 – 09/13	**Highland-Burbank Connector, City of Baton Rouge/Parish of East Baton Rouge, LA.** Detailed planning study and design of two alternatives for a new three-lane highway connecting Highland Road and Burbank Drive in Baton Rouge. Project Designer
06/13 - 08/13	**US 84 Improvements, LADOTD, Winnfield, LA.** Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. CADD Coordinator responsible for analysis of traffic via Vissim.
12/08 – 10/09	**South Jefferson Davis Parkway Rehabilitation, City of New Orleans Department of Public Works, New Orleans, LA.** Designed the rehabilitation and reconstruction of the South Jefferson Davis Parkway between Martin Luther King, Jr. Boulevard and Howard Avenue, including road resurfacing; curb drainage replacement; adjustments at driveways, intersecting streets, and project termini; and ramps for handicap accessibility at intersections and medians. Project Designer responsible for creating plan/profiles, quantities, striping plan, and final plans.

05/27 – 11/08	**Government Street and South Foster Drive Intersection Improvements, City of Baton Rouge and Parish of East Baton Rouge, LA.** Designed the widening of the intersection of Government Street and Foster Drive, consisting of undivided four-lane two-way arterials in one of the busiest areas of the City, as one of the Green Light Program projects. Project Designer responsible for creating plan/profiles, typical sections, quantities, and final plans.
09/16 – 10/17	**I-10 Off-Ramp and LA 182 J-Turn Improvements Lighting Evaluations, Design, and Construction Administration, LADOTD, Baton Rouge, LA.** BH provided lighting evaluations in conjunction with roadway improvements at the I-10 off-ramps and LA 182 Jturns.BH performed a photometric analysis providing LADOTD with a plan layout illustrating proper illumination, luminary, and lamp specifications; existing lighting were evaluated to determine if supplemental lighting would satisfy project requirement or if a new system was required. Lighting layout, electrical design plans, electrical notes and details were provided. BH also provided construction administration services including review of contractor electrical submittals, attendance at periodic meetings, and providing electrical as built plans, an Operations and Maintenance manual, and an Arc Flash report. Project Designer
09/16 – 10/17	**I-110 at Terrace Avenue Ramp Modification Design and Construction Services, LADOTD, Baton Rouge, LA.** BH designed street lighting associated with the construction of a new off-ramp from I-110 in Baton Rouge intended to minimize traffic congestion from the Mississippi River Bridge eastbound to I-10 at the Washington Street Exit. BH is now providing construction administration services for the portion of the project designed by BH. Services to be performed by BH include review contractor electrical submittals, attending periodic meetings, providing electrical as built plans and O&M manual, and providing an Arc-flash report. DOTD will provide inspection services for the ramp reconstruction and improvements. Project Designer
10/16 – 01/18	**I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA.** BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project. Project Designer
05/14 – 10/14	**Interchange Lighting Improvements Design and Construction Management Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA.** BH designed a complete lighting system over the entire length of I-55 at the LA 22 interchange. Lighting includes high-mast and pole-mounted lights. Lighting is LED and will have smart intelligence to monitor lights. Services included plans, specifications and special provisions, construction estimates, illumination analysis, and engineering calculations. Project Designer

16. Staff Experience:

SUBCONSULTANTS – Urban Systems, Inc.

Firm employed by **Urban Systems, Inc.**			
 **Alison C. Michel, P.E., PTOE, PTP, RSP1** President / Transportation Engineer		Years of relevant experience with this employer	21
		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering
Active registration number / state / expiration date			30261 / Louisiana / 03/31/2023
Year registered	2002	Discipline	Professional Engineer: Civil Engineering
Active registration number / state / expiration date			1023 / Louisiana / 11/06/2023
Year registered	2002	Discipline	Professional Traffic Operations Engineer
Active registration number / state / expiration date			626 / Louisiana / 11/20/2023
Year registered	2017	Discipline	Professional Transportation Planner
Active registration number / state / expiration date			115 / Louisiana / 12/21/2024
Year registered	2018	Discipline	Road Safety Professional
Contract role(s) / brief description of responsibilities			**Professional In Charge of Traffic Engineering Tasks**
Ms. Michel has over 24 years of experience in Traffic Engineering and Transportation Planning. Ms. Michel has extensive design experience that includes permanent and temporary traffic signals, traffic control devices for work zones, intelligent transportation systems, signage and striping. She has a wide array of experience with transportation studies including traffic impact, safety, corridor, feasibility/Stage 0, environmental/Stage 1, multi-modal and transit facilities. She has experience in the timing of coordinated systems and analyses. She is proficient in microscopic simulation modeling using VISSIM and CORSIM and also in analysis programs such as Highway Capacity Software (HCS), Tru-Traffic and SIDRA. She is familiar with preparing Transportation Management Plans for all levels. Ms. Michel has designed Traffic Control Devices Plans for many different types of projects including interstates, urban downtown grid systems, small town rural roads and everything in between.			
02/10-08/10	**LPV 16.2 Bonnabel Boulevard Floodgate** Ms. Michel designed the traffic control devices plans for construction of the LPV 16.2 Bonnabel Blvd. Floodgate in Jefferson Parish, LA. Plans included: haul routes, bypass for the ramp tie in to Bonnabel; diverting Bonnabel southbound traffic to the temporary bypass ramp; and diverting northbound traffic to Bonnabel southbound travel lanes. Plan		

	changes due to unforeseen conditions included details for floodwall construction diverting Bonnabel northbound and southbound traffic to the temporary roadway and closing Bonnabel Boulevard. The plans met US Army Corps of Engineers, Jefferson Parish and MUTCD standards. Inspections were conducted after any changes to the traffic control plan and/or at thirty (30) day intervals.
01/14-09/19	**US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project (Lafayette Parish, LA)** As the traffic engineer, Ms. Michel updated US 90 to a controlled access facility by converting at-grade intersections to an interchange. The bridge structure had to span the intersection and a railroad. She supervised the design and analysis and performed QA-QC for temporary and permanent signal plans, permanent signage plans, temporary traffic control plans and the transportation management plan. Traffic signal plans were prepared using the DOTDs latest TSI format. Analysis included developing design hour volumes for the design year and modeling signals in Synchro. Phasing and timing were developed for both permanent and temporary signal operation.
03/11-03/13	**Huey P. Long Bridge Widening - (Westbank and Eastbank Approaches and Main Bridge Deck Widening), Jefferson Parish, LA** The contractor for the Huey P. Long Widening in Jefferson Parish, LA brought-on USI about half-way into construction to improve the flow of traffic during required closures. Ms. Michel prepared traffic control devices plans (TCDP) for multiple phases of construction. The TCDPs also included the design of a traffic signal plan for the installation of temporary signal heads to control lane shifts.
03/09-09/11	**City of D'Iberville Sangani Boulevard Widening** Ms. Michel prepared traffic signal design/modification plans, striping and signage plans, traffic control devices plan for the sequence of construction and prepared a construction cost estimate for the Sangani Boulevard Widening project in D'Iberville, MS. Ms. Michel assisted with coordination between multiple stakeholders which included the city, MDOT and the business owners. Special attention was given to maintain access to businesses during the various phases of construction.
01/17-06/19	**France Road - North Widening** Over time, France Rd between Gentilly Blvd and Hayne Blvd had deteriorated pavement and was in need of widening and drainage repairs. Adjacent to the west side of the roadway was a concrete floodwall that limited Right Of Way and the ability to maintain two-way traffic throughout construction. Ms. Michel was the Principal In Charge for the project to develop site specific traffic control plans implementing a one-way system and detouring traffic that would normally traverse in the opposite direction of the allowed movement. The plans were designed in accordance with the latest version of the MUTCD and the City of New Orleans traffic control standards.

Firm employed by **Urban Systems, Inc.**				
 **Nicole H. Stewart, P.E., PTOE** Vice President / Transportation Engineer			Years of relevant experience with this employer	17
			Years of relevant experience with other employer(s)	1.5
Degree(s) / Years / Specialization			BS / 2004 / Civil Engineering and BS / 2004 / Physics	
Active registration number / state / expiration date			34750 / Louisiana / 09/30/2023	
Year registered	2009	Discipline	Professional Engineer: Civil Engineering	
Active registration number / state / expiration date			2923 / Louisiana / 08/2023	
Year registered	2012	Discipline	Professional Traffic Operation Engineer	
Contract role(s) / brief description of responsibilities			**Traffic Engineering/ Design Analysis, and TMPs**	
Ms. Stewart has seventeen (17) years of experience in Traffic and Transportation Engineering and is a certified Traffic Control Design Specialist. Ms. Stewart has extensive experience in preparing Transportation Management Plans and site-specific traffic control devices plans for every possible environment. This includes closing downtown streets with bike lanes and sidewalks, suburban road closures on multilane highways, and rural road closures requiring extensive detours as well as ramp and interstate closures, both intermittent and long term. She has experience in signal design and timing of coordinated systems for LADOTD which included developing a system engineering analysis for a new fiber optic communication network. She has experience using Highway Capacity Software (HCS), Synchro, and SIDRA.				
02/15-08/16	**Bridge Preventative Maintenance District 61 and Port Allen** Ms. Stewart was the principal in charge for Traffic Management Plans (TMP) for bridge replacement and repairs for various locations in Louisiana. The level of each TMP was based on LADOTD EDSM guidelines. A Level 3 TMP was prepared for the reconstruction of the LA 1 bridge over the Intracoastal Waterway. For this TMP, detailed work zone impact management strategies were developed to help minimize the project's impact on mobility.			
05/18- 04/19	**US 90 Bridge Maintenance over I-10 Ramps at LockMoor** Ms. Stewart used the LADOTD EDSM guidelines to prepare key components of the traffic management plan (TMP) for proposed bridge repairs on US 90 from PPG Rd to the I-10 entrance ramp in Lake Charles, LA. Tasks include the preparation of collision diagrams, conducting safety analysis, detour analysis and developing proposed mitigations where applicable.			
12/09-09/10	**Williams Boulevard Floodgate, Jefferson Parish, LA**			

	The design of Traffic Control Devices Plans and associated haul routes were prepared for the two (2) phased closure of Williams Boulevard at the Lake Pontchartrain Levee Floodgate by Ms. Stewart. The plans were prepared in accordance with Jefferson Parish and MUTCD Standards. Once the plan was implemented MS. Stewart conducted inspections.
05/18-04/19	**TMP for I-10: West of 108 to I-210 Interchange: Rubblize and Overlay** As the lead engineer for this Traffic Management Plan, Ms. Stewart was responsible for the preparation of the safety analysis. She conducted queue analysis to identify when lane closures would be permitted, identified the construction impact area and reviewed crash data for more than 350 collisions. She conducted the safety analysis per the guidelines set forth by LADOTD in *Guidelines for Crash Data Analysis.* Ms. Stewart identified trends and calculated crash rates and determined that the section of I-10 that was going to be rubblized had a crash rate that was higher than the statewide average.
02/18-03/20	**Severn Ave: Veterans to W. Esplanade** Ms. Stewart was the traffic engineering project manager of this Jefferson Parish roadway reconstruction project. Severn Ave is a heavily travelled multi-lane boulevard requiring complex construction sequencing. Design plans were developed for temporary signals during construction and the permanent signal configurations with pedestrian accommodations. Signal plans were developed using the latest LADOTD TSI format. Ms. Stewart also managed the temporary traffic control plan development for multiple phases of construction, and she performed QA-QC. Another element of this project was coordination with Jefferson Parish and LADOTD to obtain approval of the Parish's equipment and specifications for use in the LADOTD bidding process.
10/15- Current	**MacArthur Interchange Completion Phase II TMP** The design team was led by Ms. Stewart for the preliminary traffic signal design and the Traffic Management Plan (TMP) for proposed interchange modifications on US 90 (Westbank Expressway). Tasks for this work include conducting capacity analysis, safety analysis, detour analysis and developing proposed mitigations where applicable. Ms. Stewart was responsible for the QA/QC for this stage of the project. Final design for this project began in September 2019.
06/11-10/12	**Southeast Louisiana Urban Flood Control Project Improvements to Two-Mile Canal (Patriot Street Canal), Phase I, Barataria Blvd to First Avenue Canal, Jefferson Parish, LA** Ms. Stewart designed the Traffic Control Devices Plans for the improvements to the Two Mile Canal. These plans included traffic closure details, signage, flagmen, and haul routes. Ms. Stewart conducted inspections throughout construction to confirm compliance with the plans that been approved by Jefferson Parish.
06/09-12/10	**Clearview Parkway at West Esplanade** For the Clearview Parkway and West Esplanade Avenue Intersection Improvement project, Ms. Stewart prepared permanent traffic signal plans including locations for controller, mast arms, signal heads, power source, signs and vehicle detection and interconnect. She also prepared the Traffic Control Devices and Detour Plans to facilitate traffic through the phases of construction.

Firm employed by **Urban Systems, Inc.**			
 **Christine M. Darrah, P.E.** Transportation Engineer		Years of relevant experience with this employer	8
		Years of relevant experience with other employer(s)	20

Degree(s) / Years / Specialization			BS / 1994 / Civil Engineering
Active registration number / state / expiration date			25828 / Louisiana / 09/30/2023
Year registered	1999	Discipline	Professional Engineer: Civil Engineering
Contract role(s) / brief description of responsibilities			**Transportation Engineer/ Design Analysis, and QA/QC**

Mrs. Darrah has experience in Transportation/Civil Engineering including maintenance of traffic, roadway design plan and specification preparation, construction management and quality control. She is proficient in the use of AutoCAD, Adobe Illustrator, and Highway Capacity Software (HCS). She also has experience using MicroStation and TransCAD. She has experience developing temporary striping and signage plans for various conditions including lane closures, road closures, flagging operations and full detour plans. Ms. Darrah also has experience in preparing traffic signal design plans in LADOTD format. This has included timing/phasing analysis, wiring diagrams, interconnect layouts, construction quantities, specifications and cost estimates. Her many years and wide variety of experiences are valuable during studies, design development and especially QA/QC.

03/14- Current	**Entergy New Orleans, Transmission Line Reconductoring Projects** Ms. Darrah designed numerous Traffic Control Devices Plans for over 50 miles of transmission line replacement to meet US Army Corps of Engineers, LADOTD, parish and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, and drums, etc.) for city street, highway and interstate closures to facilitate traffic and oversized equipment safely and efficiently through the traffic control zones. Interstate projects included lane closures, intermittent full closures and rolling closures of the interstate system. Ms. Darrah assisted Entergy with permit preparation for work on state routes.
10/09-04/15	**Engineering Services for Pakenham Dr. and Jackson Avenue** Ms. Darrah conducted QA/QC for the final plans submitted in April 2015 for the federally funded reconstruction of Jackson Avenue and Pakenham Drive. The plans included complete roadway reconstruction of Pakenham Drive and Jackson Avenue, Tyler Street and Courthouse Square. Ms. Darrah conducted a thorough review of the horizontal and vertical alignments, the drainage system design, water and sewer replacement etc. for conformance with LADOTD plan requirements. She also conducted QA/QC of the construction cost estimates that were prepared based on LADOTD pay items.
09/15-Current	**Picardy-Perkins Traffic Signal** Ms. Darrah was the design engineer for two (2) traffic signals for the Picardy-Perkins Connector Project. In this role she worked

	closely with the prime consultant, DOTD, and East Baton Rouge Parish to determine the traffic signal operation and locations for signal equipment to develop permanent signal plans. Signal requirements included video detection, pedestrian accommodations, and advanced warning for limited sight distance at the railroad underpass. The 98% plans are currently under review by Baton Rouge City-Parish and DOTD.
12/14-09/15	**SELA 26 Widening of Florida Ave. Canal Phase II and III** Ms. Darrah designed Traffic Control Devices Plans for the widening of the Florida Ave. Canal and several surrounding streets. The design met US Army Corps of Engineers, LADOTD and MUTCD standards. The plans included multiple traffic control zones along Florida Ave and in the surrounding neighborhood. Detour routes were selected, and signage installed to direct motorists on Florida Ave in a single direction and around the associated closures. Haul routes were also designated.
03/17-10/17	**Milan St Terminal** Ms. Darrah was the Designer and Project Manager of the Construction Sequencing and Permanent Striping Layouts and Signage plans. Construction sequencing includes maintaining port tenants fully operational through each phase of construction. All plans were prepared in accordance with Port of New Orleans and MUTCD guidelines.
11/09-11/13	**City Park Parking Lot Improvements** Ms. Darrah lent her expertise to design roadway and parking lot improvements in City Park, New Orleans, LA. Ms. Darrah provided QA-QC of the construction drawings and specifications to ensure accordance with all MUTCD, ADA, and New Orleans DPW requirements. To incorporate green infrastructure in the project, permeable asphalt pavement was used in the parking lot. The work consisted of geometric layout, grading, drainage, utility adjustments, striping and signage. Construction Management Services for this project were performed.
07/19-04/20	**Citrus Boulevard Turn Lane** Ms. Darrah was the lead engineer and project manager for the new left turn lane on Citrus Boulevard for the Amazon Distribution Facility in Harahan, Louisiana. The purpose of the project was to provide an eastbound left turn lane in the existing median at the facility main entrance. Plans and specifications included typical sections, geometric layout, grading, and required signage and striping. Tasks included design, auto-turn analysis, construction administration, and coordination with Jefferson Parish, utility companies, surveyors, and geotechnical engineers.
03/13-07/17	**North Terminal Louis Armstrong New Orleans International Airport** Ms. Darrah led the design of the Maintenance of Traffic plans for the landside access roadways. The plans were designed in accordance with the Manual of Uniform Traffic Control Devices and LADOTD standards. Ms. Darrah also prepared specifications for the maintenance of traffic items.
04/18-01/22	**N. Peters Sidewalk Expansion** The Project Manager for the N. Peters sidewalk expansion project was Ms. Darrah. She prepared construction drawings and specifications for the reconstruction of the sidewalk adjacent to Canal Place Shopping Center in the Downtown Development District (DDD). The plans included the geometric layout, grading, drainage, street lighting, striping and traffic control. The plans followed all DDD, MUTCD, ADA, New Orleans DPW and S&WB requirements. Ms. Darrah also provided Construction Management Services.

Firm employed by **Urban Systems, Inc.**			
 **Matthew H. Morgan, P.E.** Transportation Engineer		Years of relevant experience with this employer	9
		Years of relevant experience with other employer(s)	0

Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering
Active registration number / state / expiration date			47060 / Louisiana / 08/11/2023
Year registered	2022	Discipline	Professional Engineer: Civil Engineering
Contract role(s) / brief description of responsibilities			**Transportation Engineer**

Mr. Morgan has (11) eleven years' experience that ranges from starting as a Data Collection Manager while in college to becoming an Engineer Intern and now a Professional Engineer for Traffic Engineering/ Transportation Planning projects. He has collected and delivered volume, class, and speed data to project managers using road tube equipment and camera systems. Mr. Morgan has been a team member for many projects that involved intersection, freeway, and highway analysis. He has assisted with Traffic Impact Studies, Traffic Control Device Plans, Interchange Modification/Justification Reports, Stage 0 Traffic Studies, Stage 1 Traffic Studies Transportation Management Plans, and a variety of others. He is proficient in the following software: PetraPro, TraxPro, MetroCount, Excel, AutoCAD, SIDRA, HCS Software, VISSIM, CORSIM, and Adobe Suite.

03/22-09/22	**Hundred Oaks Broussard Bridges TCDP** The objective of the Traffic Control Devices Plan (TCDP) was to provide adequate advanced notice and signage to drivers for the closure of two local roadway bridges. Mr. Morgan led the design of the TCDP for each bridge closure which incorporated local municipalities' standards, as well as the Manual on Uniform Traffic Control Devices (MUTCD) standards. Mr. Morgan used aerial photography and the Google Earth mapping program to designate placement of detour and advanced warning signage. He oversaw the creation of the plans in AutoCAD, a CAD-type software oriented to drawing and modeling. He used quality assurance and control with other licensed engineers in the firm to verify the plans before delivering electronic versions of preliminary plans to the client using Adobe PDF format.
12/18-10/22	**LA 46- St. Claude Bridge Bicycle Accommodation** Mr. Morgan developed short term and long-term alternatives for safely accommodating bicyclists across the raised portion of LA 46 at the St. Claude Bridge and over the Inner Harbor Navigational Canal lift span. To accomplish this task, he conducted field observations which included sight distance evaluations, identifying existing equipment to be modified/removed, collecting classification data for pedestrians, vehicles, and bicycles using the roadway/lift span, and collecting vehicular speed data. Mr. Morgan assisted with the cost estimate, and the preparation of a technical memorandum to implement these alternatives for the Port of New Orleans.

03/18-03/21	**Morial Convention Center Lanier Park TCDP** Mr. Morgan assisted in the preparation of traffic control device plans for preliminary and active construction phases. He assisted in efforts to ensure all plans were prepared to meet the city of New Orleans and MUTCD standards. He also assisted in the preparing of the electronic media, AutoCAD drawings and PDF's for documentation.
03/16-08/18	**Future I-49 South Study (Raceland to Westbank Expressway), Stage 1** The study area spanned US 90 from the Westbank Expressway in Jefferson Parish to Lafourche Parish. Mr. Morgan led the data collection effort which included traffic volume collection, speed studies, and vehicle classification. He performed site investigations and assisted project engineers with development of figures and tables to present the data. He utilized LADOTD's resources and tools during the study phase for analysis of existing conditions.
03-16-12/19	**I-10/Loyola Interchange Improvement IMR New Orleans, LA (LADOTD)** Mr. Morgan led data collection efforts on I-10 and surrounding roadways for the I-10/Loyola Interchange improvements. He organized counting roadways and turning movements using video camera and pneumatic tubes. He also assisted in the collection of speed data using hand-held radar devices. Mr. Morgan helped review crashes associated with the project, analyze crash characteristics, and examine trends in crashes for the study years. He assisted with capacity analysis for existing and future alternative conditions using HCS, Synchro, and Vissim analysis software. Mr. Morgan helped write the reports and prepare appendixes documenting the results.
02/22-04/22	**Walker LA 447 Counts** Urban Systems Inc provided Professional Traffic Engineering Services for a traffic study conducted on the LA 447 corridor to re-evaluate proposed access management changes along the corridor. Mr. Morgan coordinated with National Data and Surveying Services (NDS) to obtain the traffic data per the LADOTD Traffic Engineering Process and Report (TEPR) requirements. Mr. Morgan reviewed 7-day data and compiled an "Appendix A" which included peak period determinations, graphical representation of the data collected over the 7-day period, and raw count data in PDF format. Mr. Morgan used Microsoft Excel along with Adobe programs to identify and submit peak periods to LADOTD for approval. Mr. Morgan also reviewed 48-hour, turning movement counts (TMC), and 15-minute driveway counts for completion and reliability, to incorporate them into the traffic study.
05/21-09/22	**Violet Terminal Traffic Study** The objective of the Violet Terminal Traffic Study was to assess how long the existing traffic network of LA state highways could sustain the additional traffic generated by a new Port terminal located in Violet, LA. Mr. Morgan led in the data collection effort for numerous intersections and roadways using video cameras. Mr. Morgan identified peak hours for the associated traffic network. He also helped in estimating vehicular traffic volumes for years 2028 through 2050. He analyzed signalized intersections with and without improvements, where needed, to mitigate the impacts. Mr. Morgan assisted with report preparation that summarized the objective, methodologies, and findings of the project.

17. **Firm Experience:**

PRIME FIRM - WSP USA Inc.

Firm name	**WSP USA Inc.**		**Past Performance Evaluation Discipline(s)***		Bridge
Project name	Inspection and Load Rating Contract		**Firm responsibility (prime or sub?)**		Prime
Project number	188658	**Owner's name**	SCDOT Districts 2 and 7		
Project location	South Carolina		**Owner's Project Manager**	Emily Bickley	
Owner's address, phone, email	955 Park Street, SC 29202, 803-737-1053, BickleyEJ@scdot.org				
Services commenced by this firm (mm/yy)	08/19	**Total consultant contract cost ($1,000's)**			$14,300
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**			$14,300

This projected included the site assessment and determination of the load capacity ratings for 2604 structures in South Carolina Districts 2 &7 including 14 complex structures across the Savannah River. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. WSP updated the bridge files for each bridge with all of the gathered information. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field visits. All load ratings were completed in accordance with SCDOT's Load Rating Guidance Document (LRGD) and current AASHTO standards utilizing AASHTOWare BrR. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection was required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed 520 material/NDT tests and 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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 to over 700 similar bridges in SCDOT's inventory.

WSP also created an innovative GIS platform to allow for quick field data gathering, and real time transfer of data between WSP staff, SCDOT staff, and other consultants.

Key Staff: *Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Raul Acosta-Garcia; Ricardo Cornejo; Troy Torbett; Hamid Yaghoubi; Mark Pearson*

Firm name	**WSP USA Inc.**		**Past Performance Evaluation Discipline(s)***	Bridge	
Project name	Structures Bridge Inspection Limited Services Contract		**Firm responsibility (prime or sub?)**	Prime	
Project number	30900678	**Owner's name**	NC Dept. of Transportation		
Project location	Statewide, NC		**Owner's Project Manager**	David Snoke, PE Bridge inspection	
Owner's address, phone, email	1000 Birch Ridge Drive, Raleigh, NC 27610; dsnoke@ncdot.gov				
Services commenced by this firm (mm/yy)	2011	**Total consultant contract cost ($1,000's)**		$2,000 per cycle	
Services completed by this firm (mm/yy)	ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$2,000 per cycle	

Our team has performed over 4,000 bridge inspections and 2000 load ratings across nearly all the counties in the state over the past 11 years. The following includes highlighted projects/tasks:

- **Albemarle Sound Corrosion and Detailed Deck Inspection, Washington County, NC**: WSP provided corrosion condition evaluation of the post-tensioned tendons, grout and the concrete deck of the 4,015-ft-long approach and main span box girder section.
- **Bonner Bridge Health Monitoring:** WSP performed health monitoring of the Bonner Bridge in using solar power and cellular data. WSP performed a repair inspection of the south end of the Bonner Bridge, recommended and prioritized repairs, and provided engineering.
- **Ultrasonic Inspection of Truss Structures, Haywood and Davidson Counties, NC**: WSP performed NBIS and ultrasonic inspections of three fracture critical truss bridges in 2015. WSP was re-selected in 2017 to assist NCDOT with this ultrasonic testing. WSP has developed an ASNT compliant pin testing procedure to be able to better identify deficiencies in bridge pins.
- **Bridge Preservation/Rehabilitation**: The ongoing work under this contract includes the bridge rehabilitation plans of one bascule bridge's approach spans, one segmental box girder bridge, and four large coastal bridges in Carteret, Craven and Pamlico Counties, NC. Work previously completed under a task order included the rehabilitation of a 14-span, prestressed concrete girder bridge, located along the east coast of NC, spanning the Banks Channel, and connecting Wilmington to Wrightsville Beach, NC.
- **Diagnostic Load Testing and Finite Element Analysis, Davidson and Gaston Counties**, **NC**: WSP provided load rating evaluation through diagnostic field load testing and 3D finite element analysis (FEA) of two steel girder bridges. Posting was removed for the Davidson County Bridge, and for Gaston the allowable posting was increased from Single Vehicle 26 tons to 31 tons.
- **Load Testing Evaluation of Culverts, Forsyth, Davidson and Iredell Counties, NC**: WSP provided load rating evaluation utilizing diagnostic load testing and advanced FEA of four reinforced concrete box culverts. WSP found that there was no need for load posting.
- **Load Ratings, NC**: WSP has performed over 2000 load ratings utilizing MathCad, Excel, MDX, and BrR AASHTOWare. Location have included municpalities across the state of NC, including the City of Charlotte and Raleigh. Bridge Types have included curved and straight steel girder, prestress concrete, timber, culverts and truss structures.

***Key Staff**: Michael Craig; Casey Howard; William Mitchell; Raul Acosta-Garcia; Troy Torbett*

Firm name	**WSP USA Inc.**		**Past Performance Evaluation Discipline(s)***	Bridge	
Project name	Fracture-critical Member Bridge Inspections, Texas		**Firm responsibility (prime or sub?)**	Prime	
Project number	188359	**Owner's name**	Texas Department of Transportation (TxDOT)		
Project location	Statewide, Texas		**Owner's Project Manager**	Lu Trujillo, PE Transportation Engineer Supervisor	
Owner's address, phone, email	125 E. 11th Street, Austin, TX 78701, (512) 416-2075, Lu.Trujillo@TxDOT.gov				
Services commenced by this firm (mm/yy)	06/16	**Total consultant contract cost ($1,000's)**		$10,000	
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$2,964	

WSP is providing statewide fracture-critical inspection, tunnel inspection and ultrasonic bridge pin testing services for the TxDOT on a work authorization basis. This was a renewal of a previous $4,000,000 Fracture-Critical Member Bridge Inspection contract with TxDOT. Services include: reviewing previous inspection reports and load ratings, completing the necessary inspection activities, preparing inspection reports that identify the condition evaluation of the structure, recommending maintenance activities, reporting critical findings, generating any requested load ratings, and updating database records, where necessary. To date, WSP has performed inspections on numerous structure types, including cable-stayed, tub girders, through and pony trusses, plate caps, box caps, railroad flat cars, and two or three-girder framing systems. Services have included non-destructive testing (dye penetrant and magnetic particle) and ultrasonic testing of fracture-critical pins, performed by our Level II certified pin testing technicians. Traditional access equipment utilized in conducting the inspections includes boom lifts, bucket trucks, and under-bridge inspection vehicles. Throughout the contract, WSP utilized innovative access techniques to eliminate or reduce the need for costly traffic control, including the use of technical climbing techniques, rope access, and novel aerial lift equipment (bucket boats).

TxDOT FC Contract Stats to Date:

- Total FC Bridges: 392
- Total FC Elements: 1043
- Total Truss Spans:
- 144 (includes deck, pony and thru)
- Pins UT Tested: 136
- Total Bent Caps: 355
- (includes plate and box caps)
- Total FC Girder Spans: 299 (includes plate, box and railroad flat cars)
- 200 Load Ratings
- Load Testing

WSP also has completed over two-hundred load ratings. Load ratings were performed based on the 2020 TxDOT Load Rating Guide and AASHTO Manual for Bridge Evaluation, 3rd Edition. The load rating software used was AASHTO BrR (Version 6.8.4 and 7.0). The Inspections and load ratings have included reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for simple and continuous spans. Under this contract, TxDOT requested WSP's assistance to perform load testing of 30 culverts and systematic program to extrapolate the data obtained to provide a method of load posting avoidance across the entire inventory of 14,000+ culverts. WSP also assisted with emergency post-Hurricane Harvey bridge inspections in the Houston area. As a testament to WSP's depth of available qualified resources, 8 inspection teams were quickly mobilized to perform these emergency assessments; WSP completed 340 post-hurricane emergency assessments in 1 week.

Key Staff: *Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Troy Torbett*

Firm name	**WSP USA Inc.**		**Past Performance Evaluation Discipline(s)***	Bridge	
Project name	VDOT Statewide Load Rating of Existing Structures Statewide, Virginia		**Firm responsibility (prime or sub?)**	Prime	
Project number	188897B	**Owner's name**	Virginia Department of Transportation (VDOT)		
Project location	Statewide, Virginia		**Owner's Project Manager**	Tony Barati, PE, Senior Structural Engineer	
Owner's address, phone, email	1401 East Broad Street, Richmond, VA 23219, (804)786-5117, tony.barati@vdot.virginia.gov				
Services commenced by this firm (mm/yy)	2011	**Total consultant contract cost ($1,000's)**		$10,000	
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$14,500	

The WSP Team has provided load ratings for over 2,300 existing bridges (32 LOAs) for VDOT using AASHTOWare Bridge Rating (BrR) (formerly Virtis), DESCUS, LARSA, STAAD, MIDAS, and Smart Bridge in accordance with VDOT guidelines, the majority in the LRFR method. For low rating bridges, the LFD method was used in addition to LRFR method for comparison. Bridge types include steel plate girders/rolled beams, curved steel girders, curved steel box beams, steel girders with straddle bent, steel beams with pin and hanger, steel rigid frames, PS I-beams/bulb-T, PS box beam/voided slab/solid slab, multi-cell concrete box girder, RC T-beam, RC slab, post-tensioned concrete structure, concrete box culvert/rigid frame, concrete arch, spandrel concrete arch, timber deck/steel beam, glulam deck/timber beam, glulam deck slab, girder-floor beam-stringer system, truss bridges w/timber deck/corrugated deck, and aluminum arch culvert. DESCUS was used for load rating of steel curved plate girders and box girders. LARSA was used for load rating of steel or concrete rigid frames, CIP box beams, concrete arch bridges, tall box culverts, and spandrel arch bridge, and MIDAS was used for load rating of concrete post-tensioned bridges. WSP staff coordinated with VDOT Central Office and the Districts to procure bridge information and respond promptly to review comments. Structure lengths ranged from 11' to 6,140'. Ali Hedayati, PE is the Project Manager and the current WSP load rating team provides the engineering work. Rated bridges under the current VDOT Load Rating Statewide contract include interstate, primary, and secondary systems located statewide.

Key Staff: *Shiwei Luo; Bo Yan*

Relevant Features:

- LRFR, LFD, and ASD load rating methods
- BrR, DESCUS, LARSA, STAAD, and MIDAS software
- Steel I-beams/plate girders/box beams
- Steel beam with pin and hanger, floor beam system; rigid frame
- Steel thru-truss/timber deck/corrugated deck
- Curved steel plate girders and box girders;
- Straddle bents with curved steel girders
- PS I-beams/T-beams/box beams/voided slabs/ solid slabs
- RC T-beams/voided slabs/slabs/multi-cell box girders/arches
- Post-tensioned multi-cell box girders/I-beams
- Concrete Spandrel Arch
- Timber deck/steel beam; glulam deck/timber beams
- Aluminum arch culvert
- QA/QC

Firm name	**WSP USA Inc.**		**Past Performance Evaluation Discipline(s)***	Bridge	
Project name	Engineering Services for Cable-Stayed Structures, Georgia		**Firm responsibility (prime or sub?)**	Prime	
Project number	188658	**Owner's name**	Georgia Department of Transportation (GDOT)		
Project location	Georgia		**Owner's Project Manager**	Robbie Koirala, PE	
Owner's address, phone, email	935 East Confederate Avenue, Building 24, Room 408, Atlanta GA, (404)635-2893, rkoirala@dot.ga.gov				
Services commenced by this firm (mm/yy)	06/16	**Total consultant contract cost ($1,000's)**		$5000	
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**		$3000	

This task-order basis contract has included: **Special member inspection of the Sidney Lanier Bridge**. The scope included the in-depth inspection of 49 cable stays within the deck level guide pipes. Sever deterioration and holed-through sections were noted to the HDPE pipe sheating in 25 cable stays of 49 inspected at the interface with the tight-fit neoprene washer assemblies. **Routine safety inspection of the Talmadge Memorial Bridge**. The routine inspection consisted of a "eyes on" inspection of all faces of the bridge, including the bridge deck, inside and outside of towers, substructure, exterior surfaces of the cables, and all light poles and overhead sign structures. **Repair plans for the Sidney Lanier Bridge**. Repair plans addressed significant deficiencies associated with excessive cable vibration including cracked stay piles and neoprene bearing failures, and corrosion of the stay strands. **Dampening retrofit plans for the Sidney Lanier Cable Stays**. Performed the design of the retrofit to minimize the excessive vibration in the cables utilizing an external viscoelastic damping system for cable stay and rewrapping of the cables to prevent water intrusion. **Dampening retrofit plans for the Talmadge Memorial Bridge**. Like task #4 above, **in-depth inspection of the Talmadge Bridge.** The scope of work consisted of performing an in-depth, visual inspection of all primary structural elements to assess the present condition and provided repair recommendations. **Load Rating of the Sidney Lanier and Talmadge Cable-Stay Bridges**. **In-depth inspection of Sidney Lanier Bridge**. The scope of work consists of performing an in-depth, visual inspection of all primary structural elements, internal guide pipe inspection, dampening system, and forced vibration testing, to assess the present condition and provide repair recommendations. **Operation and Maintenance (M&O) manual for the Sidney Lanier and Talmadge Bridges**. This manual is intended to assist the GDOT's staff in the efforts to maintain the bridge elements throughout their service life.

Key Staff: *Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Raul Acosta-Garcia; Ricardo Cornejo; Troy Torbett*

17. Firm Experience:

SUBCONSULTANTS – Buchart Horn, Inc.

Firm name	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**Ascension Parish School Board High School Traffic Impact Analysis**			Firm responsibility (prime or sub?)	Prime
Project number	77357-02	Owner's name	Ascension Parish School Board		
Project location	Ascension Parish			Owner's Project Manager	Marco Gonzalez
Owner's address, phone, email	1100 Webster Street, Donaldsonville, LA 70346, marco.gonzalez@volkert.com				
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost ($1,000's)			$35.3
Services completed by this firm (mm/yy)	04/22	Cost of consultant services provided by this firm ($1,000's)			$35.3

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

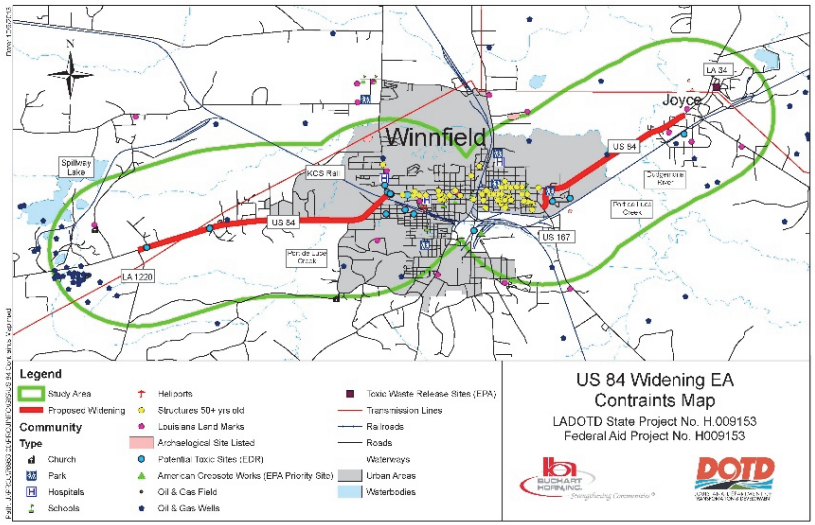
Firm's Role: BH conducted a comprehensive Traffic Impact Analysis (TIA) for the proposed Ascension Parish School Board (APSB) new High School to be located at the intersection of Ascension Parish Road 929 and Parker Road. The proposed high school is expected to open in the fall of 2023 and will accommodate 2,940 students. The TIA determined the potential impacts the proposed school will have on the surrounding road network. Impacts were determined and analyzed under the Build and No-Build Scenario. A safety analysis was also conducted for the study area. Pedestrian and bicycle activity was also included in the study. BH analyzed the results and provided recommended improvements to mitigate any traffic and safety issues in the study area. Additional improvements for future consideration were also provided.

Firm Members Involved: Jimmy Dickerson, Kevin Gaspard, Cal Joy

Firm name	BUCHART HORN			Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**US 84 Improvements**			Firm responsibility (prime or sub?)	Prime
Project number	H.009153.2	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Winnfield, LA			Owner's Project Manager	Catherine Mastine
Owner's address, phone, email	1201 Capitol Access Road, Room 605Z, PO Box 94245, Baton Rouge, LA 70804, 225.379.1232, catherine.mastin@la.gov				
Services commenced by this firm (mm/yy)	04/13	Total consultant contract cost ($1,000's)			$965
Services completed by this firm (mm/yy)	07/21	Cost of consultant services provided by this firm ($1,000's)			$541

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

Firm's Role: BH is tasked with the preparation of an Environmental Assessment in accordance with NEPA and FHWA regulations and guidelines for the proposed widening of US 84 in the Winnfield, LA area.



Tasks performed by BH to complete the environmental document include, but are not limited to:

- Line and grade study
- Evaluation of archeological, cultural, social, economic, and environmental consequences
- Traffic study and modeling
- Safety Analysis
- Engineer's opinion of cost
- Public outreach
- Corridor preservation
- Cultural Resources
- Section 404
- Wetlands mitigation

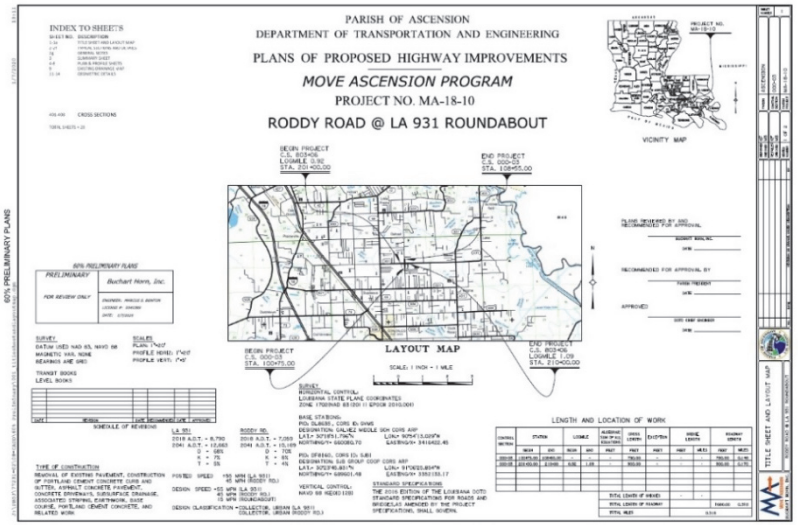
Public outreach, stakeholders, and agencies meetings were held by BH in order to obtain comments on the proposed build alternatives. A combination of nine build alternatives were developed with roundabouts, access management, and widening.

Firm Members Involved: Jimmy Dickerson, Joseph Mingo, Cal Joy, David Britner

Firm name	BUCHART HORN ENGINEERS • ARCHITECTS • PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**New Roundabout at LA 931 and Roddy Road**			Firm responsibility (prime or sub?)	Prime
Project number	MA-18-10	Owner's name	Ascension Parish		
Project location	Gonzales, LA			Owner's Project Manager	Kenny Matassa
Owner's address, phone, email	PO Box 2392, Gonzales, LA 70707, 225.450.1012, kmatassa@apgov.us				
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost ($1,000's)			$629
Services completed by this firm (mm/yy)	02/22	Cost of consultant services provided by this firm ($1,000's)			$500

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

Firm's Role: BH was selected by Ascension Parish to provide Road Design & Traffic Engineering services for a period of five years (2017-2022) under the MoveAscension program. One of the projects assigned under this program was the intersection improvements and roundabout study/design for the intersection of LA 931 and Roddy Road.



Although Roddy Road is a Parish roadway, the fact that it intersects with a State Route triggered the need for LADOTD review and approval. BH successfully implemented the Traffic Engineering Process and Report in the study and design and has received preliminary approval from LADOTD for a project permit at this location.

This intersection historically involved high frequency and high severity crashes. BH provided design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services included preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. The design complies with state and federal guidelines.

In addition to our Prime responsibilities, BH has made multiple contributions to the MoveAscension program as a subconsultant within various Teams.

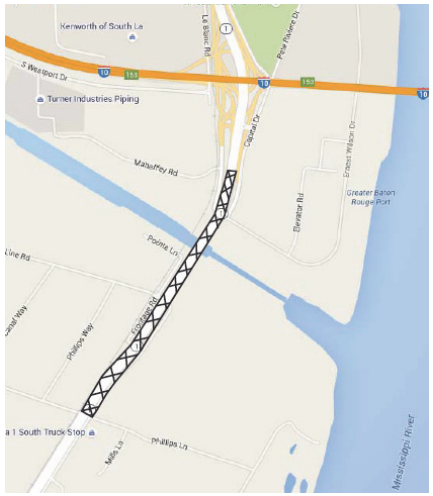
Firm Members Involved: Jimmy Dickerson, Joseph Mingo, Kevin Gaspard, Cal Joy

17. Firm Experience:

SUBCONSULTANTS – Urban Systems, Inc.

Firm name	Urban Systems, Inc.		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**Bridge Preventative Maintenance Port Allen Bridge**		Firm responsibility (prime or sub?)	Sub	
Project number	H.001234.4	Owner's name	LADOTD		
Project location	Port Allen, LA		Owner's Project Manager	Brian Delatte	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, (225) 379.1823, Brian.Delatte@LA.GOV				
Services commenced by this firm (mm/yy)	11/12	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	06/16	Cost of consultant services provided by this firm ($1,000's)		$62.6K	

The objective was to conduct a Level 3 Transportation Management Plan (TMP) based on LADOTD EDSM VI.1.1.8 for reconstruction of two (2) bridge structures over the Intracoastal Waterway (ICWW) in Port Allen, Louisiana. A TMP was critical for this location as the LA 1 bridge serves as the major crossing of the ICWW and serves up to 45,000 vehicles per day. An important aspect of this project was how to minimize construction impacts on an already congested roadway section. Peak intersection turning movements and seven-day hourly volume counts with classification were collected within the study area. Peak intersection capacity analysis was conducted using Synchro software to determine the impact the different phases on construction would have on the subject intersections. A unique part of the capacity analysis was to analyze a non-typical stop-controlled intersection with different gap acceptance values to match field conditions.



A safety analysis was conducted based on the LADOTD's *Guidelines for Crash Data Analysis, June 2014*. Crash rates were calculated for each location and compared to LADOTD's statewide averages and to LADOTD's High Potential for Safety Improvements (formerly the Abnormally High Crash) List. Charts were developed at each location based on collisions by type, injury severity, time and pavement conditions.

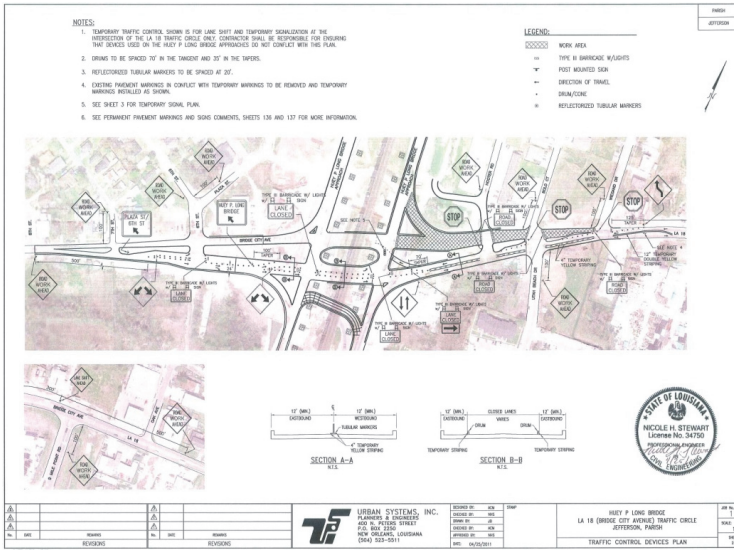
An important strategy to minimize work zone impacts was an evacuation plan as LA 1 is a critical artery during a hurricane evacuation.

A list of potential stakeholders was developed for a future stakeholder's meeting. The list was crucial for this project as many port related and industrial businesses are located in the project area and should be informed about the project.

Members Utilized in this Project Submittal: A. Michel, M. Morgan, N. Stewart

Firm name	Urban Systems, Inc.	Past Performance Evaluation Discipline(s)*		Traffic	
Project name	**Huey P. Long Bridge Widening (Westbank and East bank Approaches and Main Bridge Deck Widening)**	Firm responsibility (prime or sub?)		Sub	
Project number	SP 005-10-0037/006-01- 0021/006/02/0064/006-25 0001/006-30-0041	Owner's name	LADOTD		
Project location	Route US 90 Jefferson Parish, LA	Owner's Project Manager	Lee Horstmann		
Owner's address, phone, email	1201 Capitol Access Road Baton Rouge, LA 70802, (504)302.2200, lee.horstmann@kiewit.com				
Services commenced by this firm (mm/yy)	02/11	Total consultant contract cost ($1,000's)	Unknown		
Services completed by this firm (mm/yy)	04/13	Cost of consultant services provided by this firm ($1,000's)	$49.3K		

Urban Systems, Inc. provided Traffic Engineering Services for the Huey P Long Project for the contractor starting about half-way into the construction project. This was a multi-phase project as construction conditions and required closures changed.



A few of the phases that were addressed were:

- Jefferson Highway Detours
- Huey P. Long Bridge Southbound Approach Closure
- Huey P. Long Bridge – Rerouting Huey P. Long Northbound Approach

Plans for these phases included the following:

- **Traffic Control Devices Plans** for the redirection and protection of traffic in the active area of construction.
- **Traffic Signal Plans** for the installation of temporary traffic signal heads. The temporary signals were utilized in conjunction with the permanent signal plan. The plans included the temporary striping and signage that were required in addition to the permanent installation.
- **Permanent Pavement Markings and Signs Plans** which were used to identify which signs should be covered and which striping should not be installed during each phase of construction.

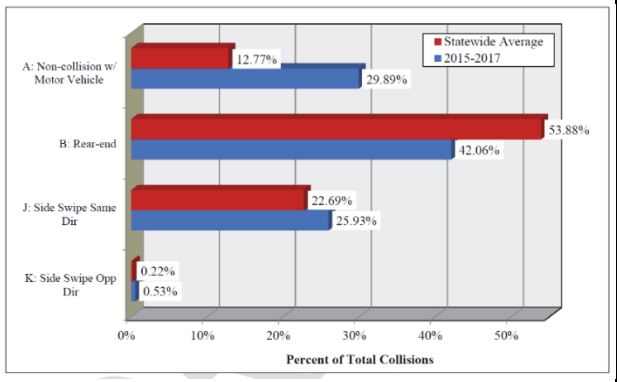
Members Utilized in this Project Submittal: A. Michel, N. Stewart

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

Firm name	Urban Systems, Inc.		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**TMP for I-10 West of LA 108 and I-210 Interchange**		Firm responsibility (prime or sub?)	Sub	
Project number	H.009620.5-1	Owner's name	LADOTD		
Project location	Calcasieu Parish, LA		Owner's Project Manager	Hadi Shirazi	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, (225)379.1929, Hadi.Shirazi@la.gov				
Services commenced by this firm (mm/yy)	05/18		Total consultant contract cost ($1,000's)	Unknown	
Services completed by this firm (mm/yy)	04/19		Cost of consultant services provided by this firm ($1,000's)	$70K	

The objective of this project was to assist with conducting a Level 4 Transportation Management Plan (TMP) based on LADOTD EDSM VI.1.1.8 for rubblize and overlay work on the US 90 bridge over I-10 in Calcasieu Parish, Louisiana. The objective of the TMP was to identify the challenges and to address strategies to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits and primary detour roadways on I-10 and I-210 within the Lake Charles Metropolitan Area. This TMP for the I-210 Prien Lake Bridge Re-Decking and Safety Improvement Project (H.010916.5) dated January 2016 was also updated.

Traffic data was reviewed within the study area and a field visit was conducted to verify information on roadway geometrics and traffic conditions. A traffic data report was developed and submitted for inclusion in the TMP document.



A safety analysis was conducted based on LADOTD guidelines. Crash rates were calculated for each location and compared to LADOTD's statewide averages and to LADOTD's High Potential for Safety Improvements (formerly the Abnormally High Crash) List. Charts were developed at each location and compared to statewide averages based on various categories. Crash diagrams were also developed to document the number, location and type of crashes. Each crash report was reviewed for accuracy.

An alternative route analysis was conducted for an assessment of the proposed detour routes. The analysis also included a safety and mobility plan to gather and address concerns for the detour routes.

Members Utilized in this Project Submittal: N. Stewart , M. Morgan, C. Darrah

18. Approach and Methodology:

About WSP USA

With offices in New Orleans and Baton Rouge, and led by Max Nassar, Vice-President, WSP is local and one of the world's leading engineering professional services consulting firms. The offices in Baton Rouge and New Orleans have been continuously operating for over three decades. We have more than 66,000 employees across 40 countries, including engineers, technicians, scientists, architects, planners, surveyors, program and construction management professionals, and various environmental experts. WSP USA has approximately 6,360 transportation employees and a group of more than 100 bridge engineers, designers, and inspectors in the southeast. Our southeast bridge inspection/load rating team proposed for this project have completed **over 6,000** load ratings in the past three years using AASHTOWare BrR software. Our proposed PM Michael Craig, PE, MPR 5 recently completed a similar load rating effort for SCDOT (2,604 bridges) and has been focused on bridge inspections, load ratings, and repairs for his entire 25-year carrier.

Load Rating Approach

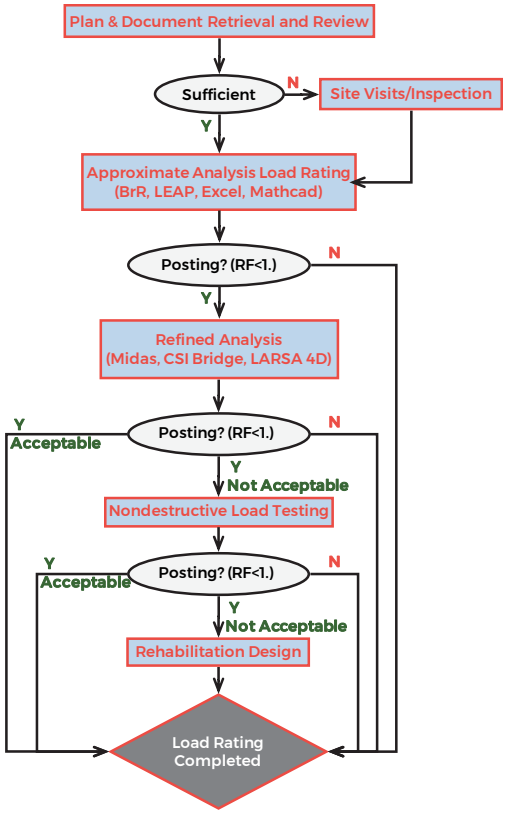
Load rating will follow the methods outlined in the latest *AASHTO Manual for Bridge Evaluation* (MBE) along with the supplement requirements of the *LADOTD Bridge Design and Evaluation Manual* (BDEM) and the applicable *LADOTD Bridge Design Technical Memoranda* (BDTM).

The proposed load rating approach is outlined in the flow chart to the right. All bridges will receive a site visit Led by **Hatem Seliem, PE**, MPR3 and NBIS Team Leaders. The bridges will be inspected to verify defects that may affect the load ratings, including identifying signs of distress, and assess existing damage, design flaws, and dead load including wearing surface thickness. Additional measurements will be taken as need to complete the bridge files for the load rating engineers.

Rating shall be performed using AASHTO approximate analyses utilizing AASHTOWare BrR along with in-house developed Mathcad and/or Excel reports. If traditional analysis results in a posting, refined analysis using finite element modeling will be developed where appropriate. For complex bridges where approximate analysis is not applicable, refined analysis (finite element modeling) shall be developed. Pre-approved software packages shall be used for numerical modeling, e.g. Midas Civil, CSI Bridge, LARSA 4D. When BrR cannot be utilized for load rating, influence lines for critical substructure and superstructure elements shall be provided by WSP.

To assist in load posting avoidance, Michael and his team can provide nondestructive diagnostic load testing. They have successfully utilized this specialized testing to remove hundreds of unnecessary postings for SCDOT and TXDOT saving the departments millions of dollars in unnecessary repairs and replacements, and allowing the departments to more cost effectively manage their repair and replacement needs.

A detailed load rating criteria will be developed and provided to LADOTD for review and approval. The load rating criteria will be in full compliance with BDEM, Part II (Design Specifications), Volume 5 (Bridge Evaluation/Rating) and all applicable BDTM.



Project Management:

Michael Craig, PE – Project Manager (MPR 5): Michael is a structural engineer with more than 25 years of experience. As Project Manager (PM) he has overseen the load rating, inspection, and testing of several thousand bridges and managed some of the largest load rating projects in the Southeast, including SCDOT's bridge load rating contract, NCDOT's statewide bridge inspection contract, and GDOT's cable stay contract. Michael has a proven track record of successfully completing large scale and statewide bridge inspection and load rating contracts.

After the IDIQ contract is executed, Michael will submit the insurance certificates, the Quality Control/Quality Assurance (QA/QC) Plan, and the Contract Safety Plan for LADOTD for approval.

For each task order (TO) assigned, Michael will submit a task schedule, a methodology for the performance of the work, a Traffic Control Plan (if required), and fee estimate to LADOTD for approval. He will coordinate with our subconsultants to meet the Work Zone safety requirements and document retrieval support. Michael will monitor TO activities, progress of the work, and overall schedule and budget compliance.

Hatem Seliem, PhD, PE – Deputy PM and Load Rating Lead Engineer (MPR 3) is a structural engineer with more than 15 years of experience in performing bridge design, load rating, testing, and rehabilitation of different bridge types including 10 years of Louisiana bridge projects. Hatem served as Lead Engineer for many bridge load rating projects in Louisiana as well as Project Manager on several evaluation, rehabilitation, and load testing projects.

Hatem has in-depth knowledge of the *Louisiana Bridge Design and Evaluation Manual* (BDEM) as he participated in its development including the development of Louisiana Standard I-Shaped Girders (LG Girders), Louisiana Standard U-Shaped Girders (LU Girders), and policy for the use of intermediate diaphragms.

In addition to his experience using traditional analysis utilizing AASHTOWare BrR, Hatem has an extensive experience with refined analysis and finite element modeling of bridges including complex bridges.

Michael will utilize Hatem to coordinate across the 3 primary tasks, Plan and Document Retrieval, Site Visits, and Load Ratings/Evaluation.

- Hatem will lead the effort to retrieve plans and prior documents from AssetWise and LADOTD's other document repositories for each structure in the TO and engage the rating team members to complete document reviews prior to visiting bridge(s) site(s) or commencing the load rating analysis. Hatem will utilize mid-level engineers and EIs to assist with this effort to reduce cost.
- Hatem will also be on the ground assisting with the site visits to help ensure all missing data from the plan gathering stage is collected during the site visits as well as all defects, design/construction flaws, and unrecorded loadings are captured.
- Hatem will lead the team of load raters.

Mark Pearson, PE – Quality Control Manager (MPR 2) is a structural engineer with more than 30 years of experience in performing bridge design and load rating of steel girders, tubs and trusses, concrete slabs and tee beams, prestressed concrete, and timber structures. Mark oversaw and reviewed a large portion of the 2,604 bridge load ratings completed in AASHTOWare BrR for SCDOT.

The QA/QC Manager, Mark Pearson, PE, will conduct a review on all project deliverables, including subconsultants, prior to submittal. Once the QC process is complete, Mark will sign and date a QA review certification form attached to the deliverable and return it to Michael for submittal to LADOTD. If Mark finds errors, he will note them and return the package to Michael for correction by the project team member responsible for the deliverable. Once corrected and verified, Mark will sign and date the QA review certification form and return the deliverable to Michael for submittal to LADOTD. Mark will maintain a record of each review and the disposition of prior review comments.

Our subconsultants, Buchart Horn, Inc., and Urban Systems, Inc., will provide traffic services, and adhere to their QA/QC plan. Deliverables to WSP will include documentation signed by the subconsultant task lead certifying completion of the QA/QC review. The deliverable will then go through WSP's QMP/QA review prior to submission to LADOTD.

Task 1: Plan and Document Retrieval and Review

WSP will utilize our own staff led by Hatem Seliem, PE, PhD, (MPR 3) Deputy PM and subconsultant staff (if necessary) to retrieve bridge files from DOTD's listed sources. The current bridge inspection reports and previous bridge inspection reports will be retrieved and studied for important measurements, data, and conditions pertinent to the load rating. The team will retrieve and study the bridge As-Builts with shop drawings and As-Designed plans for data pertinent to the load rating and for comparison to field conditions during the site visit. Repair or rehab details will be studied for any information relevant to repairs or retrofits (of the structure pertinent to the load rating.) Previous field measurements taken for the structures or load testing done on the structures will be reviewed for relevant impacts to the load ratings and noted in the documentation. All data will be collected, cataloged, renamed, and uploaded to the bridge files according LADOTD directives. All missing data will be cataloged. All data including the list of missing data will be provided to the Site Visit teams.

Michael and his team recently complete a similar task of document retrieval and review for SCDOT. For this project WSP gathered and reviewed the documents for 2604 bridges, often requiring visits to the central office as well as the district offices to collect both digital and hard copy files.

Task 2: Site Visits

Our field site visit staff will be led by Hatem Seliem, PE, PhD, MPR 3, Deputy PM, to ensure coordination between the plan gathering Phase and the Site Visit phase, to help ensure all the need information is collected during the site visits. Hatem will be assisted by our experienced bridge inspection teams, all with extensive bridge inspection and load rating experience. Upon arrival to the site and after reviewing the previous inspection report and other data gathered, our inspectors will perform a general assessment of any changes or modifications to the structure or the load conditions, or to visually observable documented defects that may affect the load rating, documenting the changes. A site assessment report will be submitted for each bridge detailing the findings of the site assessments. All conditions impacting the load rating will be documented in photographs with descriptions and sketches. All site visit data will be entered in our GIS Cloud application to ensure all the needed data is gathered and provide real time access to the information to LADOTD and WSP management team and load raters.

During the SCDOT Load Rating Contract, WSP completed site assessments for 2,604 bridges. Similar to this project, the site visits differed from the NBIS routine inspection because the purpose was to confirm existing conditions and gathering data for the load rating only. WSP created a GIS tracking tool to track the site assessment work, allow our site assessment teams to have access to all the data gathered during phase one, ensure all missing data was captured, and provide real time tracking of the work both internally and to SCDOT.

Task 3: Analysis and Load Rating Modeling

Hatem Seliem, PhD, PE, (MPR 3) will assign load rating tasks (groups of similar types of bridges) to load rating squads consisting of 2 Engineering Interns (EIs) and 2 Professional Engineers (PEs) to maximize production and quality while maintaining a cost-effective service. The WSP team will produce load ratings utilizing BrR based on the as inspected condition and loading of the bridge. We will load rate all structures using the load rating provisions in the current AASHTO *Manual for Bridge Evaluation* and the *LADOTD Bridge Design Manual*.

Where the capabilities of BrR are exceeded, WSP will develop an appropriate two or three-dimensional model in an approved software as required by LADOTD. A live load analysis including design loads, legal loads (include SHV), and emergency vehicles (EV) will be performed utilizing Design Live Loads of HL-93 and Legal Loads of LADOTD State Legal Loads, SHV, and EVs. Secondary and temperature effects will be considered where appropriate.

Where directed by LADOTD, a Refined Analysis will be developed for controlling bridge elements as a posting avoidance strategy when a AASHTOWare BrR rating results in load posting. For any bridges or structural elements that cannot be rated using BrR, WSP will generate influence lines for critical members, including substructure.

Final Reports

Draft final reports will be submitted to LADOTD for review, and approval prior to official submission and populating to LADOTD AssetWise platform.

A sealed comprehensive report will be issued for each bridge summarizing the defects affecting the load rating, the assumptions made during the load ratings, dead load and live load distribution factor calculations, as well as the load ratings for all of LADOTD design loads, legal loads, and emergency loads including: HL93/HS20, SHV, and EV.

Similar to this project, Michael and his team completed 2,604 bridge load ratings utilizing BrR for SCDOT between 7/2018 and 12/2022. The following is what SCDOT PM Emily Bickley said concerning the WSP Team:

"Project Mgr/Eng Performance – Michael and his team have provided excellent service for every aspect of this contract. The team members have seamlessly acted as an extension of SCDOT staff and required almost no oversight. The progress of our program is largely due to this team's efforts to make sure the SCDOT bridge program excelled in every way."

"Schedule Milestones – WSP has been an incredible force at taking on an unprecedented amount of work and completing it in an impossibly short deadline to help SCDOT meet federal requirements. The stance of always taking on whatever challenge is in front of us and being a seamless partner in progressing our bridge program has been exceptional."

"Quality – WSP's ability to provide solutions, coordinate with a wide variety of teams, and provide highly successful results has bolstered a struggling program into a thriving one. The level of quality has been noteworthy at every step and phase of this project."

"Responsiveness – WSP has often anticipated our needs before we ever asked for help. They have always been able to provide exactly what was needed under short deadlines and with high quality. The level of service provided to SCDOT has been incredible and has significantly contributed to the success of our bridge program."

"Utilization of Key Staff – The highly experienced team that has been put together for this contract is unparalleled. From the specialized expertise that has been needed without warning, to the educated and friendly go-to members of the team, and the exceptional results have shown that WSP has put together a team that can handle anything." *- Emily Bickley SCDOT*

Recommendations to Improve Load Postings

Upon exhausting analytic efforts to remove load postings, WSP will provide an array of alternates for LADOTD to consider, to increase or remove unnecessary load postings. WSP will provide both repair concepts as well as recommended additional testing that may benefit the load rating of a particular bridge or system of bridges.

For SCDOT and TxDOT, our team load testing and material testing helped to remove postings from hundreds of bridges and culverts saving the Departments millions of dollars.

Our other Key Staff Supporting Load Rating Activities

Trevor Johnson, PE – Complex Load Rating Engineer (MPR 4) is a FHWA-certified bridge inspector and structural engineer. Trevor has more than 20 years of experience in inspecting, repairing, and load rating bridges and more than 10 years in movable and steel truss complex bridges, including movable truss bridge repairs in Louisiana. He will lead our movable and complex bridge load ratings.

Casey Howard, PE – Load Rating Engineer (MPR 5) is a FHWA-certified bridge inspector and a structural engineer. Casey served as the Deputy PM on the SCDOT load rating project overseeing the completion of 2,604 load ratings utilizing AASHTOWare BrR. His experience includes load ratings of bridges and culverts ranging from timber structures to steel curved girder, steel truss and railroad flat car structures. He served as the lead engineer for the load ratings for NCDOT Statewide Bridge Inspection Contract, City of Charlotte Bridge Inspection and Load Rating Contract, City of Raleigh Bridge Inspection and Load Rating Contract, TxDOT Bridge Inspection Contract and TxDOT Fracture Critical Inspection Contract. Casey has 8 years of experience load rating experience utilizing AASHTOWare BrR, Mathcad, BRASS, MDX, CONSPAN and other software for bridge load ratings.

Shiwei Luo, PE – Load Rater, has over 15 years of experience in bridge load rating and design of all type of bridges. She has expert knowledge of AASHTOWare BrR and is experienced with LARSA, DESCUS, MIDAS, and STAAD.

The WSP team has an excellent track record providing bridge inspection, load rating, load testing, NDT and material testing services, and our project team's experience encompasses all of those components, which will serve well both the field visit/site assessment and the office analysis/load rating aspects of this project. Our bridge inspection practice has been working on similar contracts for more than 30 years across the nation. WSP's success in completing projects on time and in budget is evident by a documented repeat business ratio of over 95% for this service line. In the past six (6) years, Michael Craig, PE, our proposed Project Manager (who leads our Southeast bridge inspection group) has had a near 100% reselection rate throughout the southeastern region of the country for bridge inspection and load rating services. The WSP team is committed to providing responsive client service. We take pride in our quality of work and continually seek ways to improve our services.

Project Schedule

Project Milestones								
Deliverables	**Predecessors**							
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
TASK 1a – Kick-off, Assess TO Load Rating Package, Prepare and Submit TO Fee Est, Prepare and submit Site Inspection Plan, Site Safety Plan, Site Traffic Control (MOT) Plans (if needed), updated QA/QC Plan, Project Schedule								
TASK 1b – Retrieve plans and documents from LADOTD repositories. Retrieve data from AssetWise, Perform existing document review. Complete advanced preparation and coordination for Site Visits/Site Assessments.								
TASK 2a – Deploy traffic control (MOT) and safety measures as required and complete Site Visits. Prepare and Submit Site Visit/Site Assessment Reports – Document and upload any significant changes or findings to AssetWise as directed.								
TASK 2b – Where warranted by the absence of current applicable records or the presence of substantial structural changes or changed loading or physical conditions, gather additional measurements, photographs and data sufficient to support an accurate load rating consistent with current site conditions and submit documents with Site Visit Reports.								
TASK 3a – LRFR Load Rating – Build structural model in AASHTOWare BrR and perform rating analysis using the design, legal, special and emergency vehicles and generate and submit the Load Rating Report for each bridge or culvert based on As-Built Plans as modified for current conditions.								
TASK 3b – LRFR Load Rating – For complex bridges not ratable in BrR, build structural models in Midas or other approved software and perform rating analysis using the design, legal, special and emergency vehicles and generate and submit the Load Rating Report for each bridge or culvert based on As-Built Plans as modified for current conditions.								
TASK 3c – Posting Avoidance Measures – Where directed by LADOTD and for bridges that rate less than the legal vehicle capacities and would otherwise have to be posted for load limits, a refined model and load rating analysis will be prepared in Midas or other approved software and submitted to avoid load posting where feasible. Recommendations will also be made for further testing to avoid posting where feasible.								
TASK 3d – Influence lines for non-BrR load ratings – Where complex bridge models or refined analysis are required outside BrR software capabilities, influence lines will be generated and submitted in accordance with the LADOTD requirements.								

19. Workload:

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
WSP	Bridge	H.010253.5	ELEC. & MECH. ENG. ON CALL TO9	$192,651
	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call TO1	$258,521
	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call TO2	$246,640
	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call TO4	$1,818,105
BUCHART HORN ENGINEERS • ARCHITECTS • PLANNERS	Environmental	H005257, FAP 9902(518)	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement	$3,284
	Environmental	H.009153.2, FAP H009153	US 84 Improvements	$3,000
	Bridge (Lighting)	H.010319.5	I-110 Reconstruction from North Street-Plank Road	$66,358
	CE&I/OV	H.012422.6	I-110 at Terrace Avenue Ramp Modification CA Services	$3,686
	CE&I/OV	H.012874.6	I-55 at LA 22 Interchange New Lighting CA Services	$31,993
	Traffic (Safety)	H.013322	LA 3040 Corridor Improvements Study	$96,346
	Traffic (Safety)	H.041305.1	US 61: Cardinal Drive to Bert Street	$70,000
	Bridge (Lighting)	H.010616.5	New I-20 Overpass over LA 544 Lighting	$58,546
	Bridge (Lighting)	H.014302.5	US 165 Roadway Lighting	$148,460
	Bridge (Lighting)	H.010319.5	I-110 Lighting from North Street to Plank Road	$52,538
URBAN SYSTEMS Inc. USI	Traffic	H.011309.5	Mac Arthur Final Design	$30,687
	Traffic	H.012812	US 190: Northshore and Camp Villere	$5,507
	Traffic	H.004891	Reserve to I-10 Connector	$21,561

(Add rows as needed) DO NOT SUM

20. Certifications/Licenses:
PRIME FIRM: WSP USA Inc.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/9/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Ian James Chaney
4649 Pleasant Avenue
Norfolk, Virginia 23518

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LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
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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Louisiana Professional Engineering and Land Surveying Board

License Information

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

Name:	Address:
Mr. Ian James Chaney	4649 Pleasant Avenue Norfolk, Virginia 23518

License/Certificate Information

License	Status	First Issuance Date	Expiration Date	Listed Discipline(s)
PE.0042288	Active	01/25/2018	09/30/2024	Civil Engineer

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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Mr. Michael Warren Craig
101 Wilander Drive
Cary, North Carolina 27511

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

Mr. Michael Warren Craig

License/Certificate Type - Number: PE.0041964

Expiration Date: 03/31/2024

Status: Active

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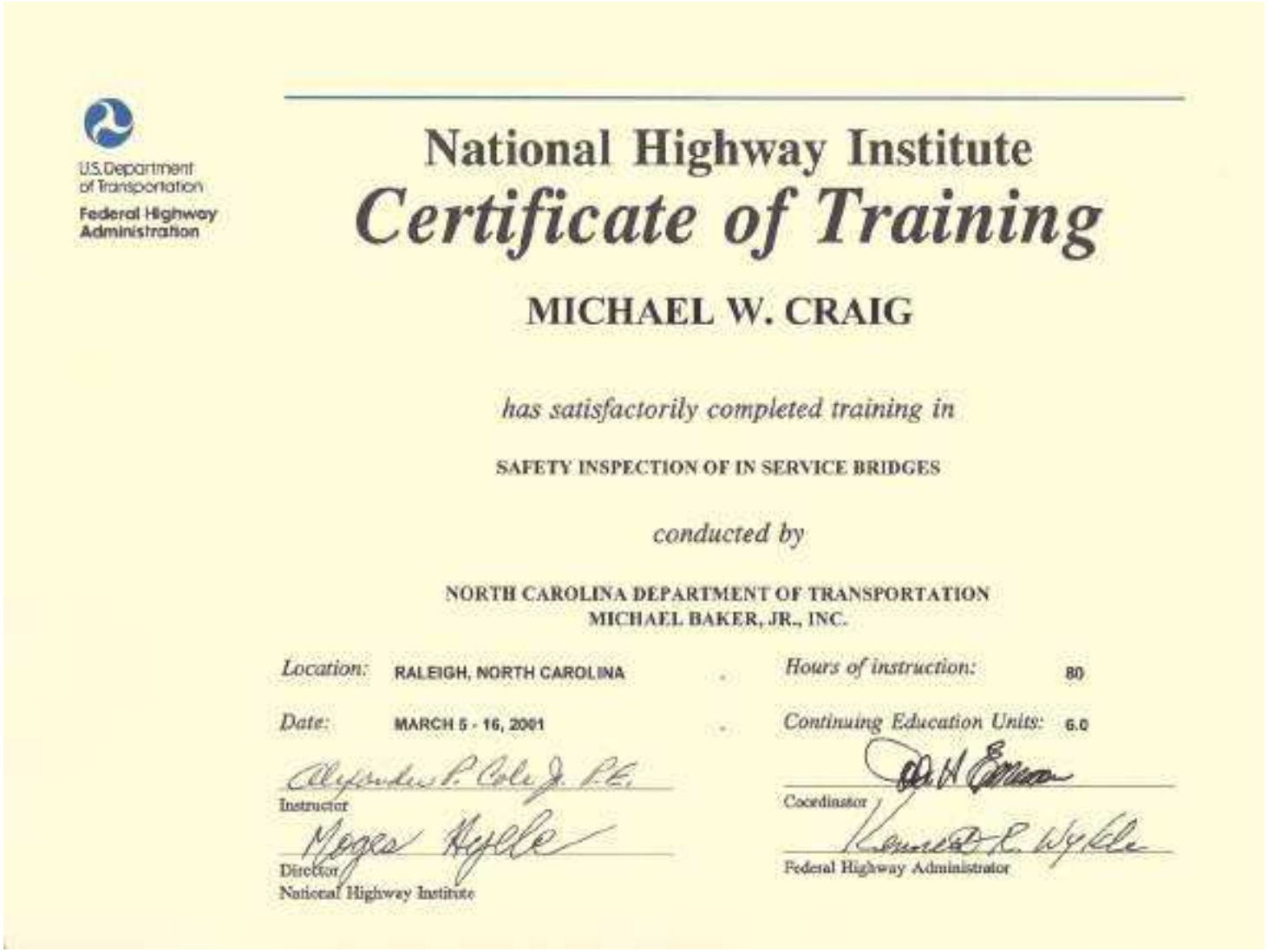

U.S. Department of Transportation
Federal Highway Administration

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

Date: MARCH 5 - 16, 2001

Hours of instruction: 80

Continuing Education Units: 6.0

Alexander P. Cole Jr. P.E.
Instructor

Coordinator

Director
National Highway Institute

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE

Michael Craig

has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by

WSP USA

Date: *January 16-18, 2018*

Location: *Cary, NC*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

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

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

Michael Craig

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

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

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

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

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

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
IVa D.O.B. 26 NOV 1972
SEX HEIGHT WEIGHT HAIR EYES
M 75 225 BROWN BROWN
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
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/9/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Hatem Mohamed Seliem Ph.D.
2820 Continental Drive, Suite 100
Baton Rouge, Louisiana 70808

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

Mr. Hatem Mohamed Seliem Ph.D.

License/Certificate Type - Number: PE.0039759

Expiration Date: 09/30/2023

Status: Active

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/30/2021 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Lloyd Mark Pearson
105 Burkwood Lane
Raleigh, North Carolina 27609

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

Mr. Lloyd Mark Pearson

License/Certificate Type - Number: PE.0039629

Expiration Date: 09/30/2023

Status: Active

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Louisiana Professional Engineering and Land Surveying Board

License Information

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

Name:	Address:
Mr. Lloyd Mark Pearson	105 Burkwood Lane Raleigh, North Carolina 27609

License/Certificate Information

License	Status	First Issuance Date	Expiration Date	Listed Discipline(s)
PE.0039629	Active	03/02/2015	09/30/2023	Civil Engineer

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225-925-6291 | Fax 225-925-6292

Trevor Johnson

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Trevor K. Johnson
2202 North West Shore Boulevard, Suite 300
Tampa, Florida 33607

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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. Trevor K. Johnson

License/Certificate Type - Number: PE.0045518

Expiration Date: 09/30/2023

Status: Active

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/10/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Matthew Paul Sullivan
9 Bridle Ridge Drive
North Grafton, Massachusetts 01536

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. Matthew Paul Sullivan

License/Certificate Type - Number	Expiration Date
PE.0042490	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.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/10/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Casey Jordan Howard
128 Talbert Road, Suite A
Mooresville, North Carolina 28117

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. Casey Jordan Howard

License/Certificate Type - Number	Expiration Date
PE.0042913	03/31/2023

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.

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Casey Howard

has participated in

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

hosted by

WSP GROUP

Date: January 27- February 7, 2014
Location: Charlotte, NC

Hours of Instruction: 60

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Casey Howard

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

WSP

Date: *November 01-03, 2022*

Location: *Mooresville, NC*

Hours of Instruction: 18

Instructor

Instructor

Michelle L Grissom

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

Casey Howard

has participated in

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

hosted by

Stantec

Date: *August 23-26, 2016*

Location: *Denver, CO*

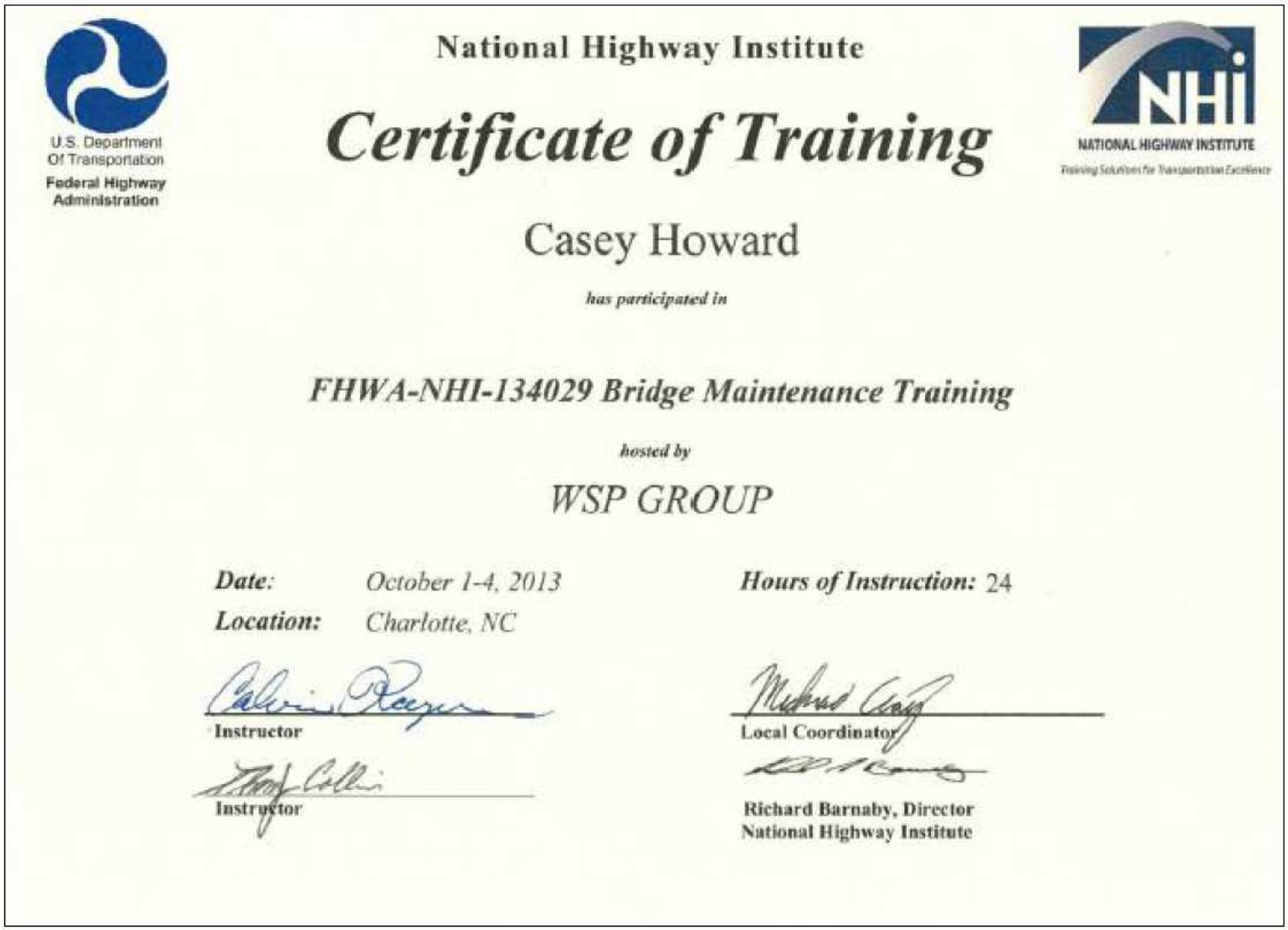
Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Casey Howard

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Casey Howard

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Casey Howard

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Wetherill Engineering

Date: *May 02-06, 2016*

Location: *Cary, NC*

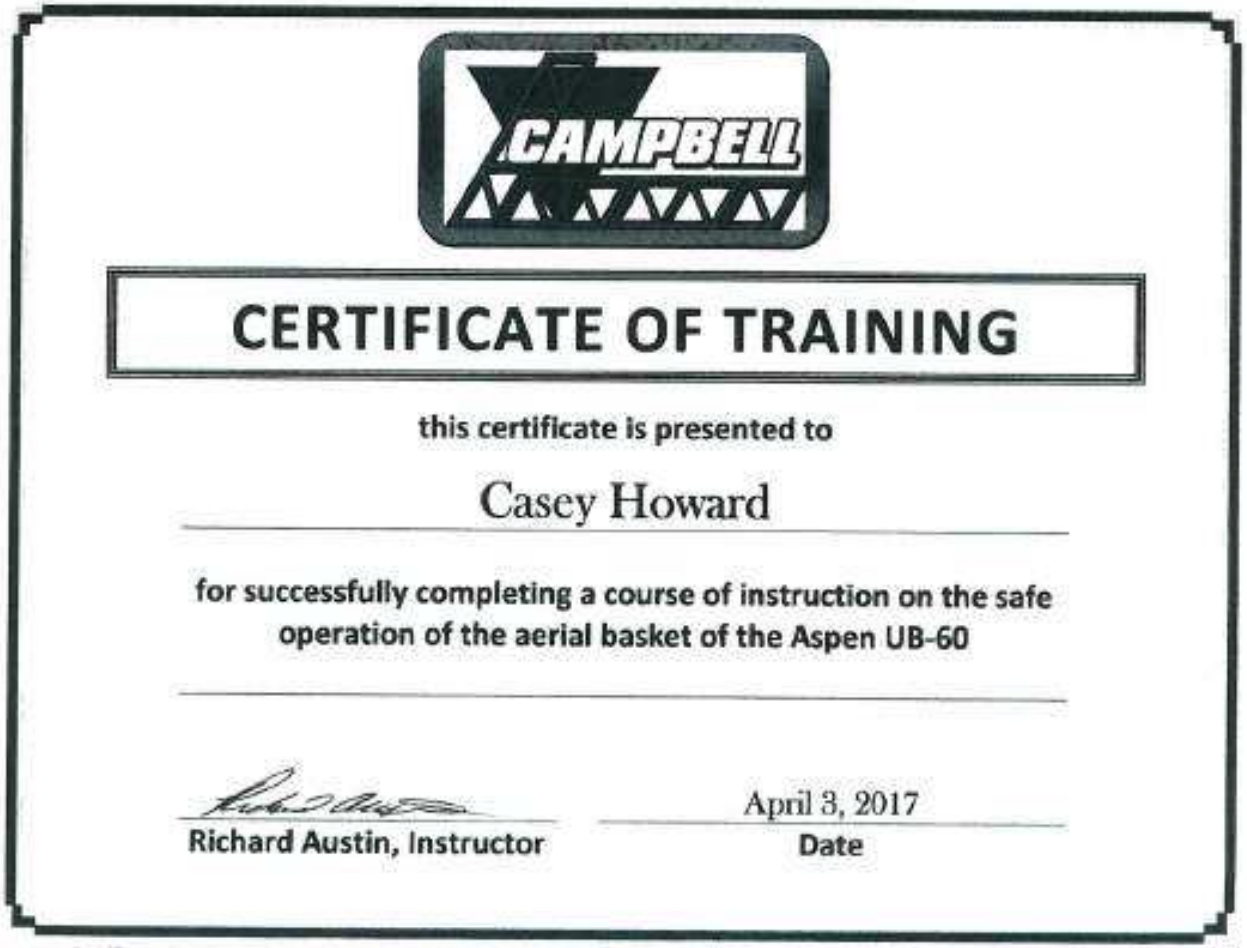
Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



CAMPBELL

CERTIFICATE OF TRAINING

this certificate is presented to

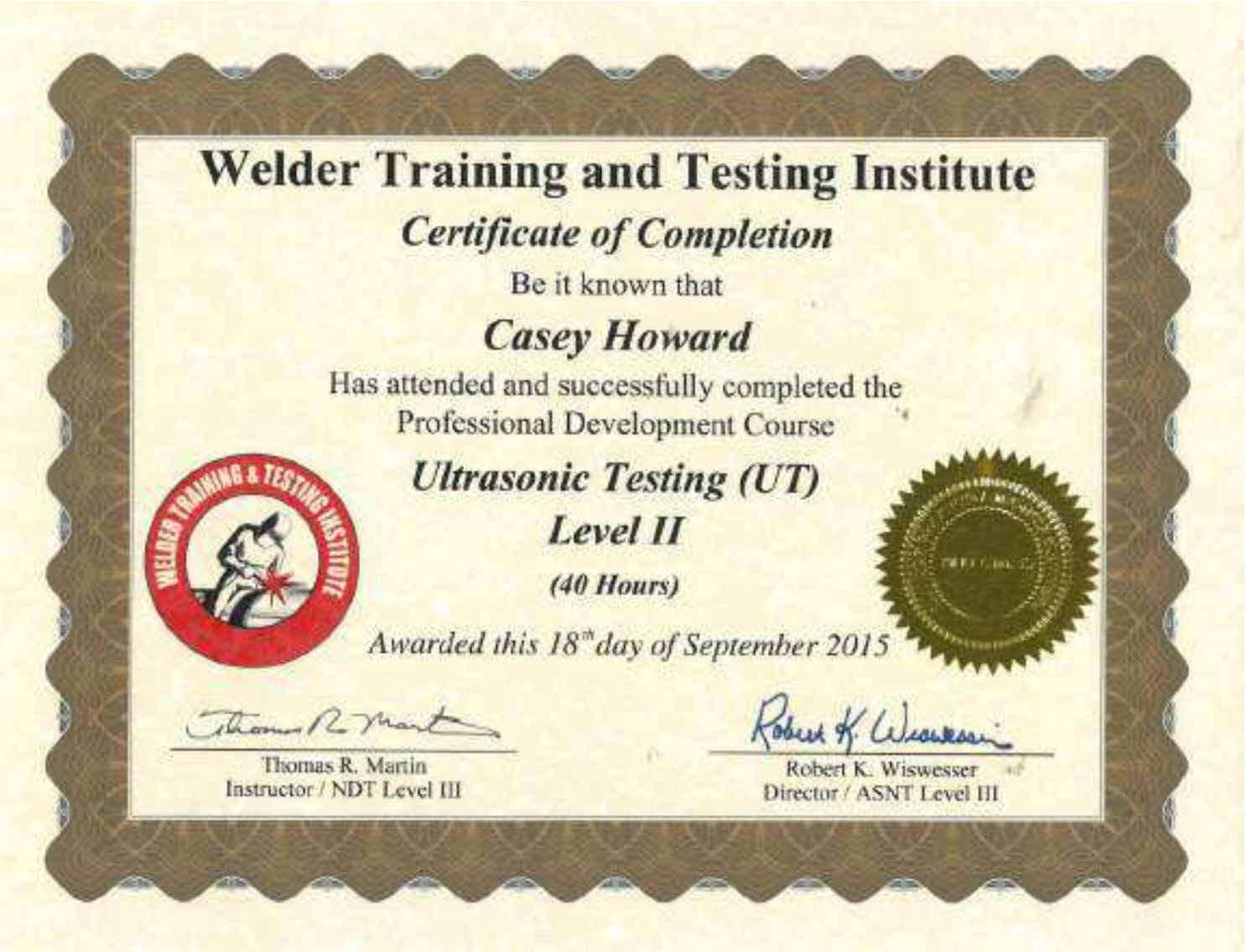
Casey Howard

for successfully completing a course of instruction on the safe operation of the aerial basket of the Aspen UB-60

Richard Austin, Instructor

April 3, 2017
Date

http://freewordtemplates.net/



Welder Training and Testing Institute

Certificate of Completion

Be it known that

Casey Howard

Has attended and successfully completed the
Professional Development Course

Ultrasonic Testing (UT)

Level II

(40 Hours)

Awarded this 18th day of September 2015

Thomas R. Martin
Instructor / NDT Level III

Robert K. Wiswesser
Director / ASNT Level III

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

CASEY HOWARD

has demonstrated through practical and written examinations,
attainment of SPRAT's
Certification Requirements for Rope Access Work,
and is therefore
CERTIFIED

Level 2 Rope Access Technician

SPRAT #151444
AWARDED: February 19, 2021
Expires: February 19, 2024

TROLL ., EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/9/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Raghuveer Surapaneni
WSP USA, 1001 Wade Avenue, Suite 400
Raleigh, North Carolina 27605

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. Raghuveer Surapaneni

License/Certificate Type - Number	Expiration Date
PE.0038403	03/31/2024

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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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.

Raghu Surapaneni

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Raghuveer Surapaneni

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

AECOM

Date: *June 26-28, 2018*

Location: *Raleigh, NC*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Raghuveer Surapaneni

has participated in

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

hosted by

National Highway Institute

Date: April 8 - 19, 2013

Location: Arlington, VA

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

NHI
NATIONAL HIGHWAY INSTITUTE

National Highway Institute
Certificate of Training

Raghuveer Surapaneni

has satisfactorily completed training in

Fracture Critical Inspection Techniques for Steel Bridges

NHI Course No. 130078

conducted by

Michael Baker Jr. Inc.

Location: Trenton, New Jersey

Date: September 24-27, 2002

Hours of instruction: 28

Continuing Education Units: 2.1

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Raghuveer Surapaneni

has participated in

FHWA - NHI Course No. 130099A
Bridge Inspection Nondestructive Evaluation Seminar - BINS (2 Days)

hosted by

LA DOTD/LTRC

Date: October 6-7, 2015
Location: Baton Rouge, LA

Hours of Instruction: 13

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Raghuveer Surapaneni

has participated in

FHWA-NHI-135046

STREAM STABILITY AND SCOUR AT HIGHWAY BRIDGES

hosted by

Pennsylvania Department of Transportation

Date: October 7, 2008
Location: Indiana PA

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Joseph S. Toole, Associate Administrator
Office of Professional and Corporate Development

CERTIFICATE OF COMPLETION

RAGHUVEER SURAPANENI

No license indicated

has successfully completed the following course

Mobile Elevating Work Platform (MEWP) Safety for Supervisors

this course is approved for 1 Continuing Education hours

December 2 2020

Course Completion Date

Victoria Zaccaro, SVP of Content & Communications

Twin Urban Centre
6990 West Kennedy Boulevard
Suite 300, Tampa, FL 33609
866.540.1292

ACCREDITED IACET PROVIDER

As an IACET Accredited Provider, Vector Solutions offers CEUs for its programs that qualify under the ANSI/IACET Standard

VECTOR SOLUTIONS | RedVector

American Welding Society® Certifies That

Raghuveer Surapaneni

Has Completed the AWS
Certified Welding Inspector Seminar
Charlotte, NC

8 Professional Development Hours

January 16, 2015
Date

Director of Operations, Education Services

U.S. Department Of Transportation
Federal Highway Administration

NHI
NATIONAL HIGHWAY INSTITUTE

National Highway Institute

Certificate of Training

Raul E. Acosta

has participated in

FHWA-NHI Course No. 130055

SAFETY INSPECTION OF IN-SERVICE BRIDGES

hosted by

BOSTON SOCIETY OF CIVIL ENGINEERS & MASSACHUSETTS HIGHWAY DEPARTMENT

Location: Worcester, MA

Date: March 19-30, 2007

Hours of instruction: 72

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Raul Acosta-Garcia

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

WSP

Date: *April 26-28, 2022*

Location: *Raleigh, NC*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Raul Acosta-Garcia

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway

Certificate of Training

Raul Acosta-Garcia

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Whitman, Requardt, & Assoc. and Moffatt & Nichol

Date: Dec. 4-6, 2017

Hours of Instruction: 18

Location: Richmond, VA

/s/ Jeff Rowe
Instructor

/s/ Suzanne Wheat
Local Coordinator

Instructor

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Raul Acosta

has participated in

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

hosted by

Whitman, Requardt & Associates, LLP

Date: *February 4-5, 2015*
Location: *Richmond, VA*

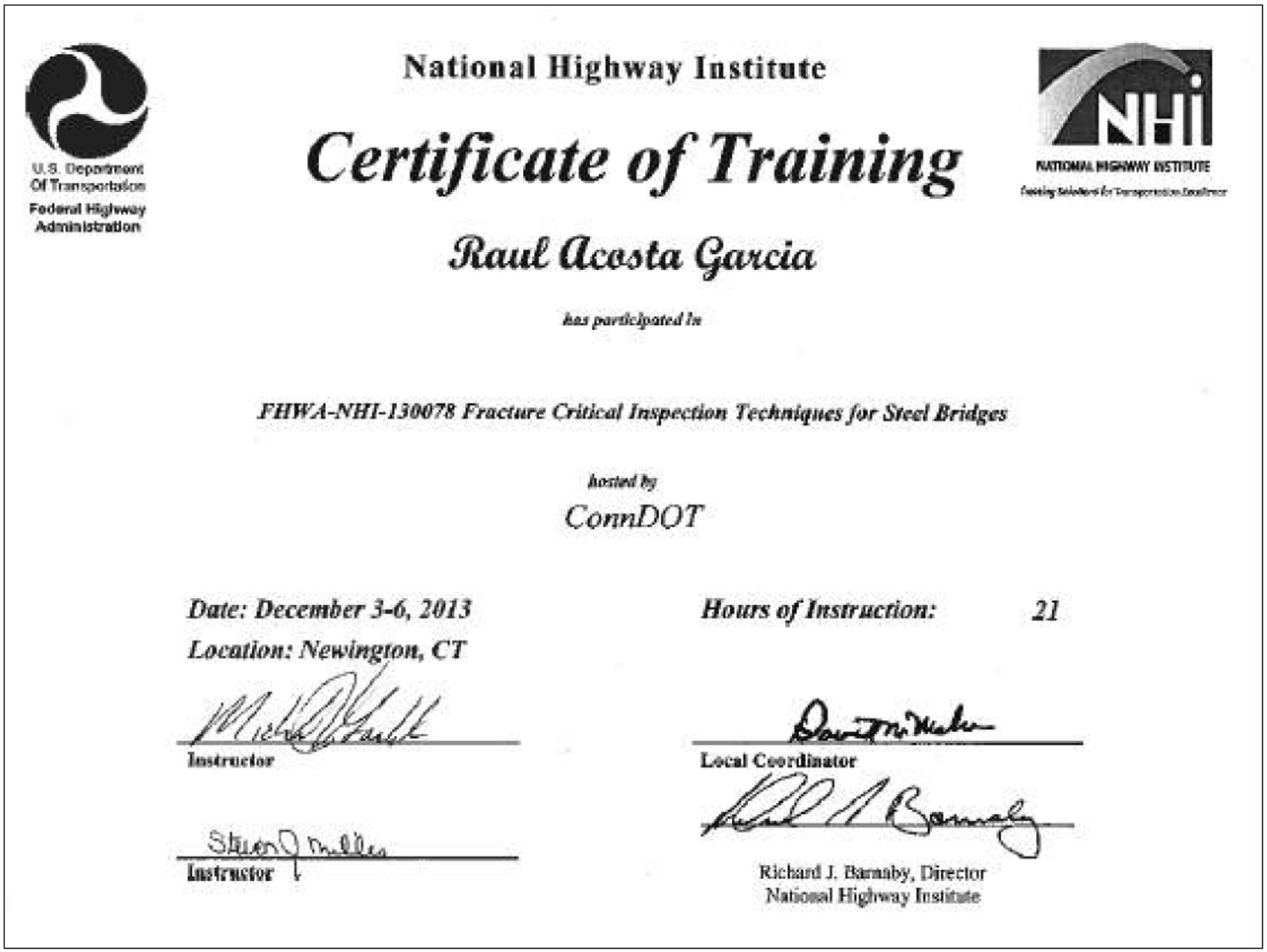
Hours of Instruction: 12 Hours

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Raul Acosta Garcia

has participated in

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

hosted by
ConnDOT

Date: December 3-6, 2013
Location: Newington, CT

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

Ricardo Cornejo

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Ricardo Cornejo
has participated in

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

Georgia Department of Transportation

Date: *September 28 –October 9, 2015*

Hours of Instruction: *67 hours*

Location: *Atlanta, GA*

Guy P. Lang PE
Instructor

Vivian Reed
Local Coordinator

Josh Wackerly
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

RICARDO CORNEJO

has Successfully Completed

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

hosted by

WSP

Date: *August 02-05, 2022*

Location: *Mooresville, NC*

Hours of Instruction: 25

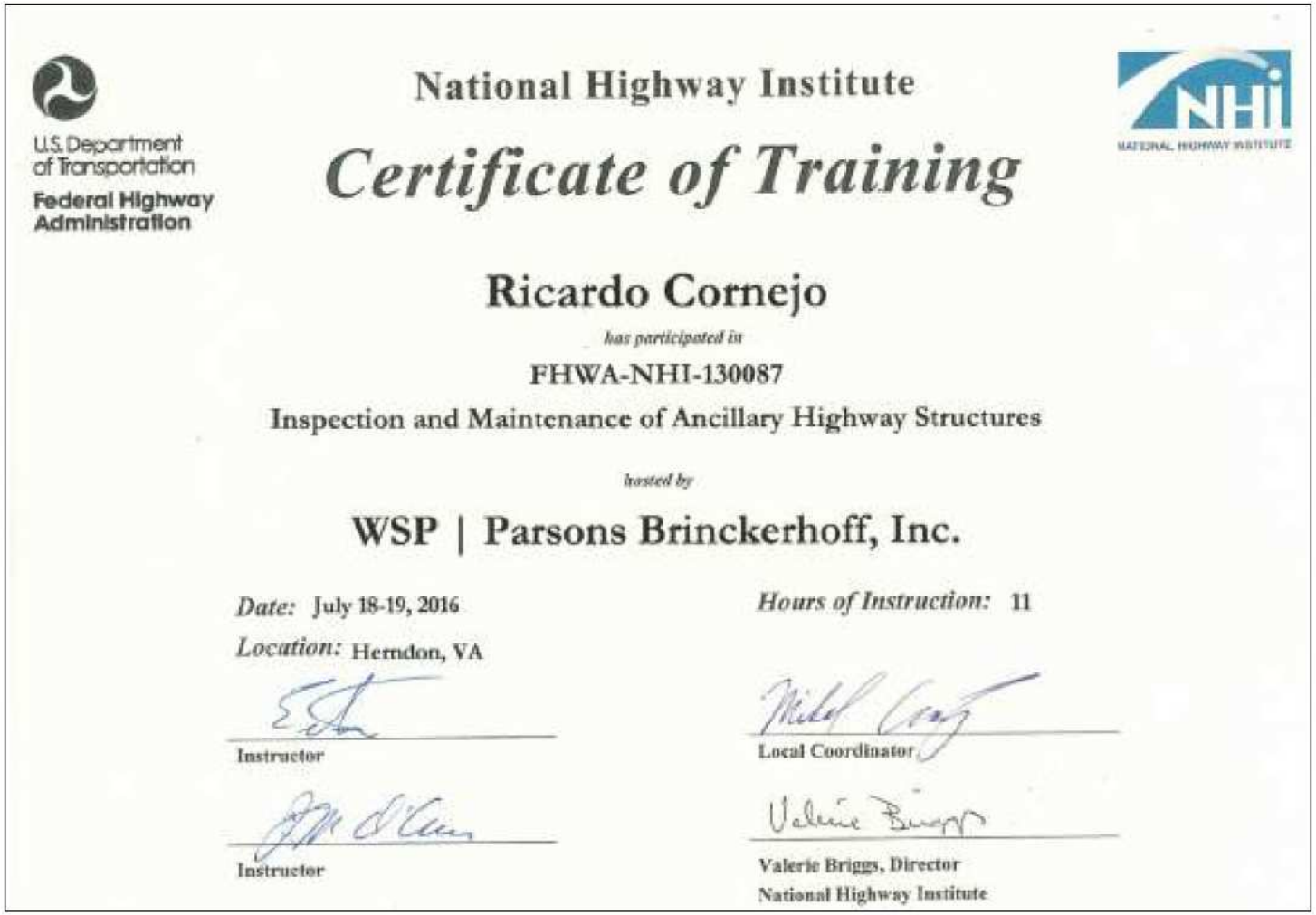
Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE

Ricardo Cornejo

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

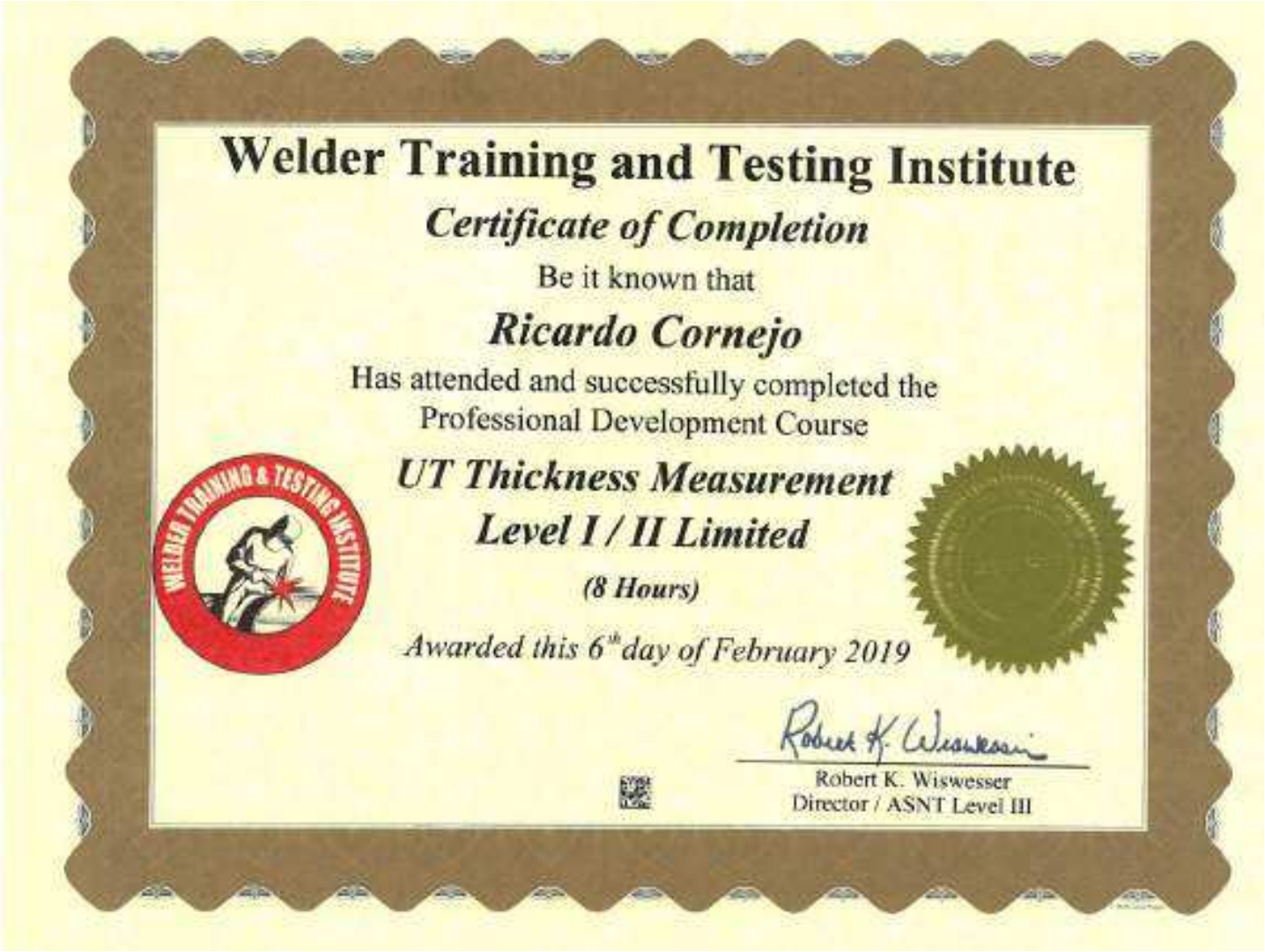
Location: Herndon, VA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



Welder Training and Testing Institute

Certificate of Completion

Be it known that

Ricardo Cornejo

Has attended and successfully completed the
Professional Development Course

UT Thickness Measurement
Level I / II Limited

(8 Hours)

Awarded this 6th day of February 2019

Robert K. Wiswesser
Director / ASNT Level III

CERTIFICATE OF COMPLETION

Awarded By

Welder Training & Testing Institute

Ricardo Cornejo

Attended the Continuing Education Course and has satisfactorily completed objectives on the subject of

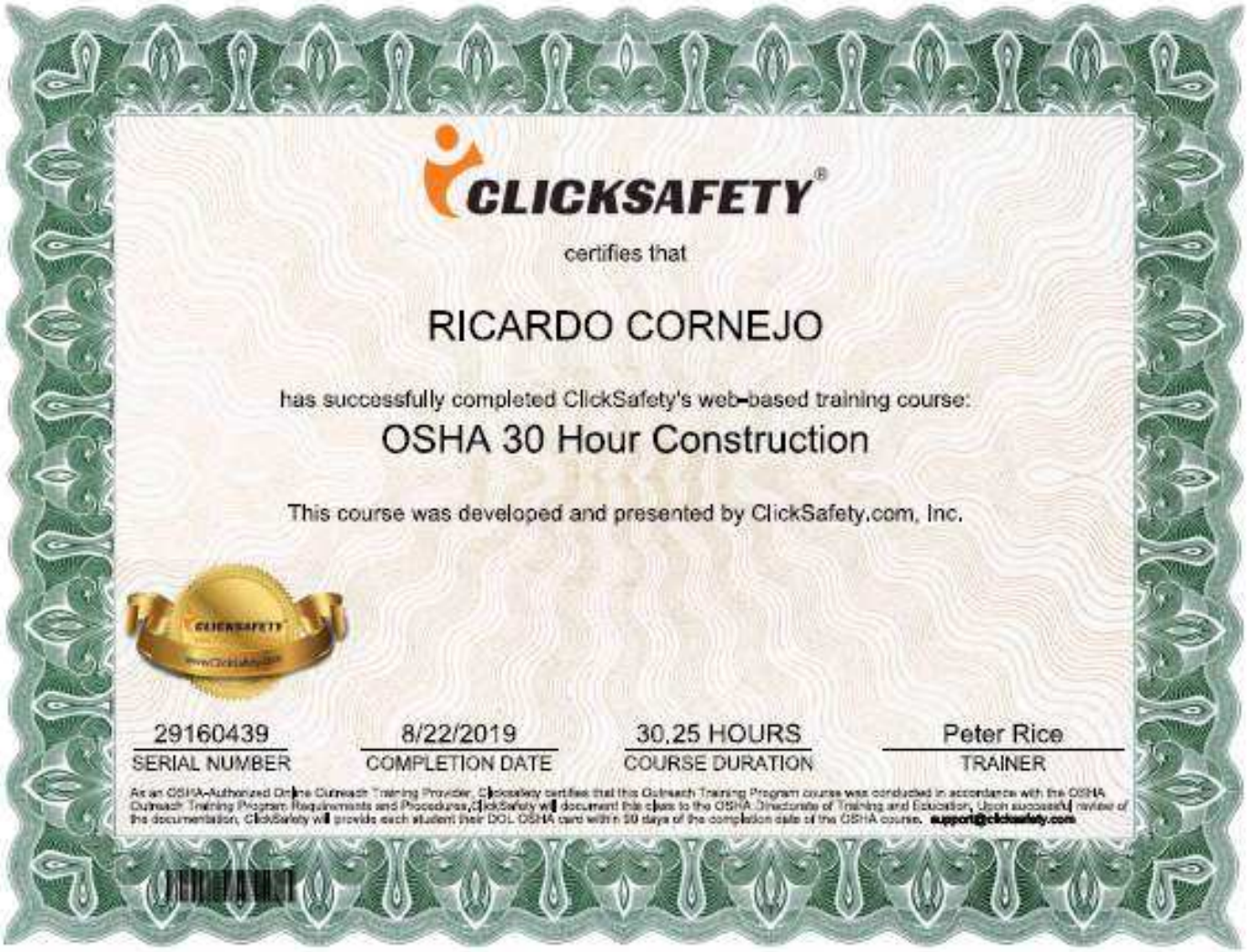
Specialized Training on UT-2 Procedure
Test Score: 95%
16 Hours

presented by the Welder Training & Testing Institute on

February 5, 2019

Robert K. Wiseman
Instructor

Patrick E. Davis
Course Director



CLICKSAFETY®

certifies that

RICARDO CORNEJO

has successfully completed ClickSafety's web-based training course:

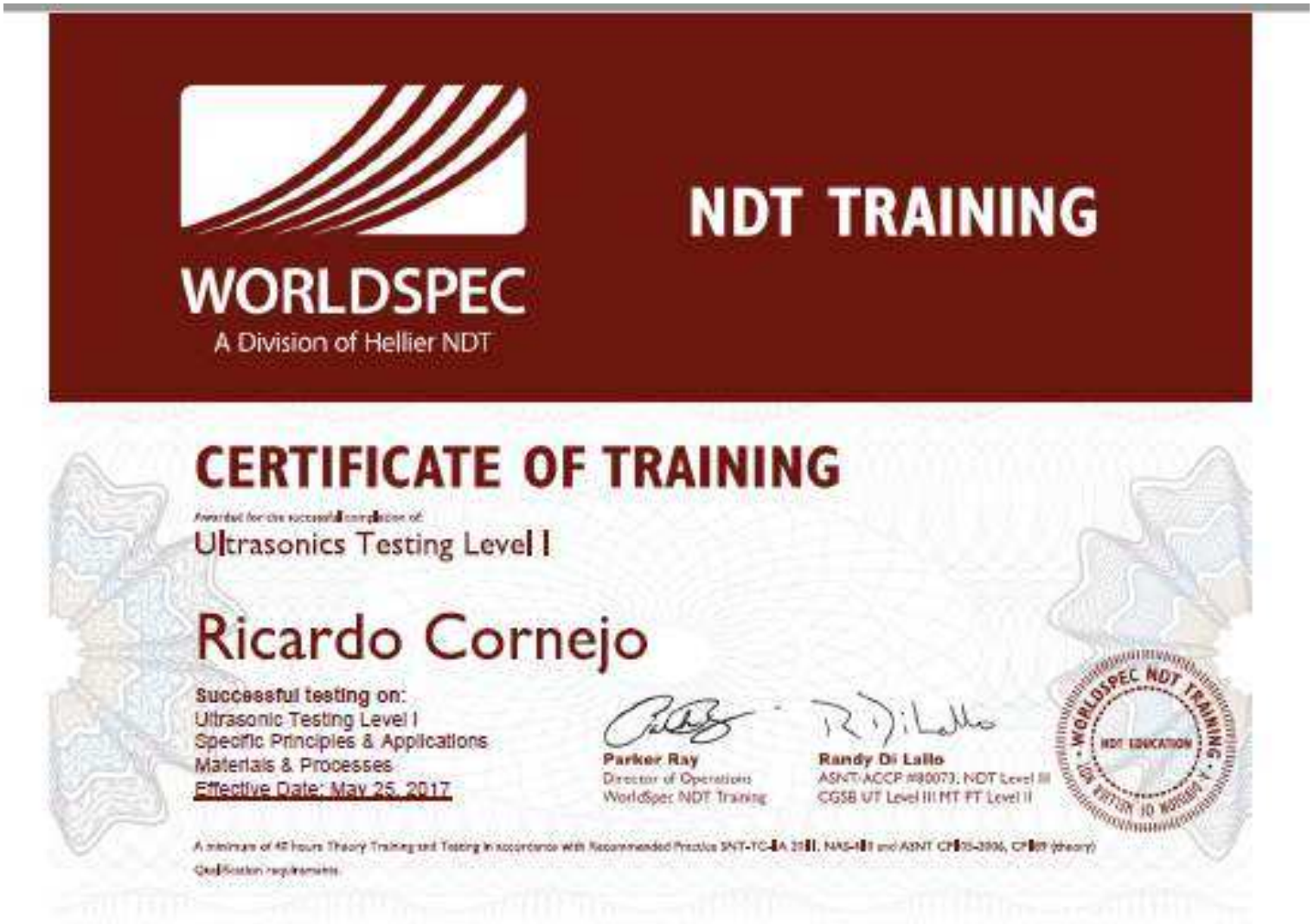
OSHA 30 Hour Construction

This course was developed and presented by ClickSafety.com, Inc.

29160439	8/22/2019	30.25 HOURS	Peter Rice
SERIAL NUMBER	COMPLETION DATE	COURSE DURATION	TRAINER

As an OSHA-Authorized Online Outreach Training Provider, ClickSafety certifies that this Outreach Training Program course was conducted in accordance with the OSHA Outreach Training Program Requirements and Procedures. ClickSafety will document this class to the OSHA Directorate of Training and Education. Upon successful review of the documentation, ClickSafety will provide each student their DOL OSHA card within 30 days of the completion date of the OSHA course. support@clicksafety.com


CAMPBELL
CERTIFICATE OF TRAINING
this certificate is presented to
Ricardo Cornejo
for successfully completing a course of instruction on the safe operation of the aerial basket of the Aspen UB-60
Richard Austin, Instructor
April 3, 2017
Date


WORLDSPEC
A Division of Hellier NDT
NDT TRAINING
CERTIFICATE OF TRAINING
Ultrasonics Testing Level I
Ricardo Cornejo
Successful testing on:
Ultrasonic Testing Level I
Specific Principles & Applications
Materials & Processes
Effective Date: May 25, 2017
Parker Ray
Director of Operations
WorldSpec NDT Training
Randy Di Lallo
ASNT-ACCP #80073, NDT Level III
CGSB UT Level III MT PT Level II
WORLDSPEC NDT TRAINING
NDT EDUCATION

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

RICARDO CORNEJO

has demonstrated through practical and written examinations, attainment of SPRAT's Certification Requirements for Rope Access Work, and is therefore

CERTIFIED

Level 1 Rope Access Technician

SPRAT #2200463

AWARDED: March 11, 2022

Expires: March 11, 2025

TROLL ., EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

William "Coley" Mitchell

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

William Mitchell

has participated in

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

hosted by

WSP GROUP

Date: *January 27- February 7, 2014*

Location: *Charlotte, NC*

Hours of Instruction: 60

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

William Mitchell

has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by

WSP USA

Date: *January 16-18, 2018*

Location: *Cary, NC*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute


U.S. Department
Of Transportation
Federal Highway
Administration
National Highway Institute
Certificate of Training
NHI
NATIONAL HIGHWAY INSTITUTE
William Mitchell
has participated in
FHWA-NHI-130078 Fracture Critical Inspection Techniques
for Steel Bridges
hosted by
WSP
Date: February 18-21, 2014
Hours of Instruction: 21
Location: Cary, NC
Instructor
Instructor
Local Coordinator
Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE

William Mitchell

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

William (Coley) Mitchell

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Wetherill Engineering

Date: May 02-06, 2016

Location: Cary, NC

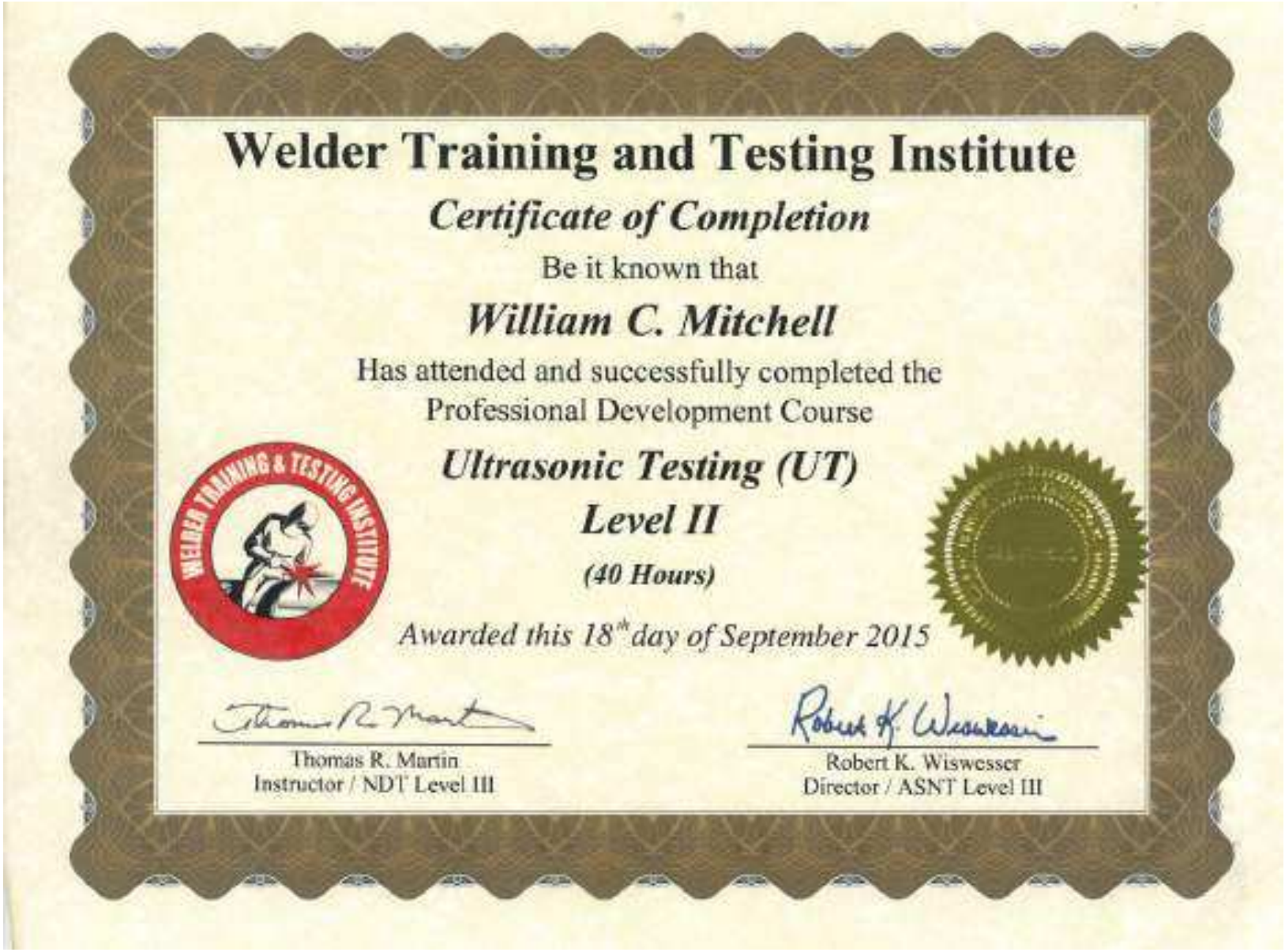
Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



Welder Training and Testing Institute

Certificate of Completion

Be it known that

William C. Mitchell

Has attended and successfully completed the
Professional Development Course

Ultrasonic Testing (UT)

Level II

(40 Hours)

Awarded this 18th day of September 2015

Thomas R. Martin
Instructor / NDT Level III

Robert K. Wiswesser
Director / ASNT Level III

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/10/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Arunava Saha
WSP 3400 Peachtree Road, Tower Place 100, Suite 2400
Atlanta, Georgia 30326

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. Arunava Saha

License/Certificate Type - Number: PE.0038334

Expiration Date: 03/31/2024

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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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.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 1/10/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Matthew Paul Sullivan
9 Bridle Ridge Drive
North Grafton, Massachusetts 01536

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. Matthew Paul Sullivan

License/Certificate Type - Number	Expiration Date
PE.0042490	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.

Matthew Sullivan

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

MATTHEW SULLIVAN

has participated in

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

hosted by

Boston Society of Civil Engineers with Massachusetts Department of Transportation

Date: *May 02-13, 2011* ***Hours of Instruction:*** 60

Location: *Boston, MA*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Matthew Sullivan

has participated in

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

hosted by

MP Engineers, P.C.

Date: *February 25-28, 2020*
Location: *Kingston, NJ*

Hours of Instruction: 25

Instructor

Instructor

Mahendra Patel
Local Coordinator

Michael Davis, P.E.
Director, National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE

Matthew Sullivan

has participated in

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

hosted by

PKB Engineering Corporation

Date: *July 14-15, 2015*

Location: *Secaucus, NJ*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Matthew Sullivan

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Rhode Island Department of Transportation

Date: February 26-28, 2019

Location: East Greenwich, RI

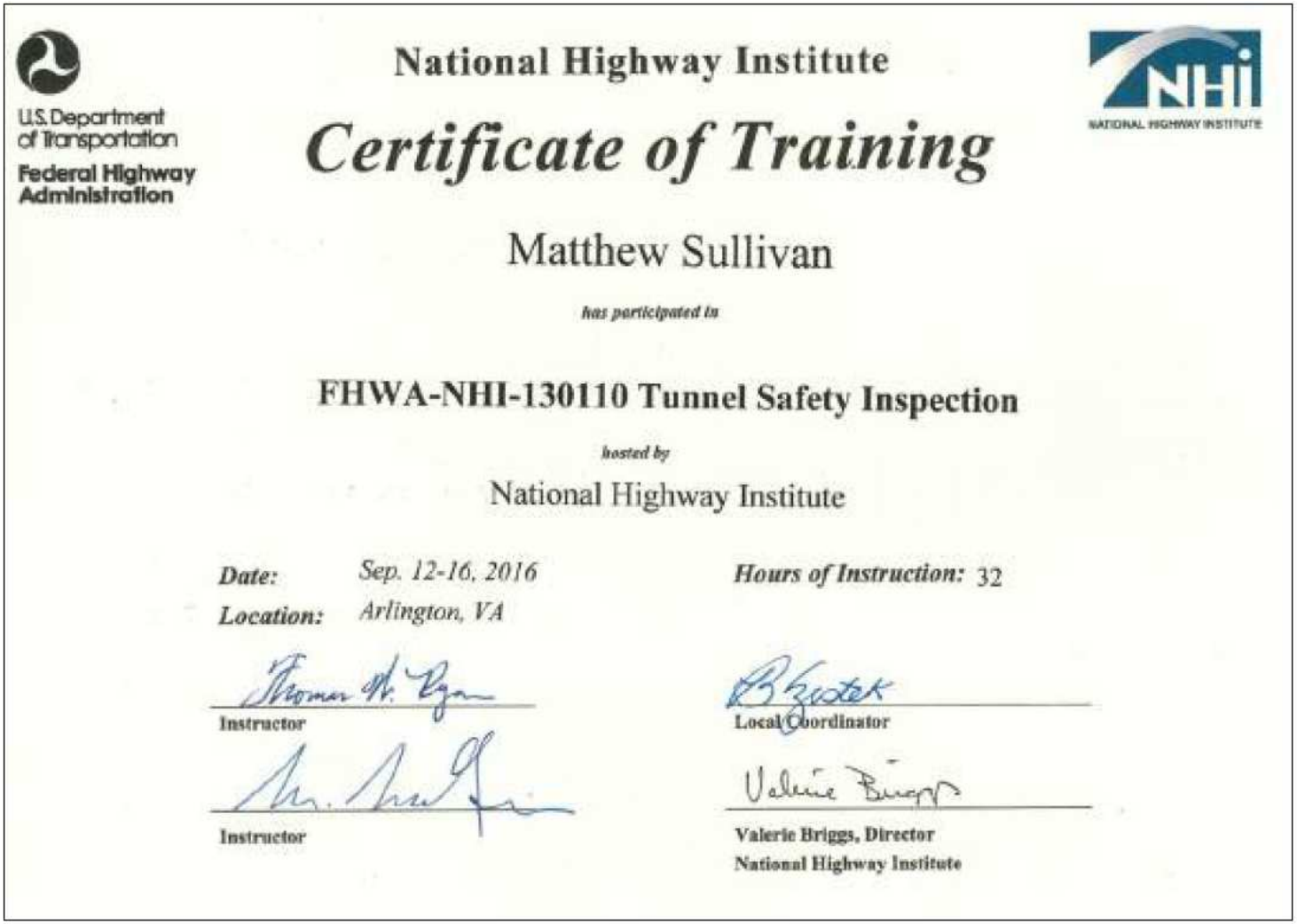
Hours of Instruction: 18 24

Instructor

Instructor

Course Coordinator

Michael Davies, Director
National Highway Institute



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Matthew Sullivan

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

National Highway Institute

Date: *Sep. 12-16, 2016*

Location: *Arlington, VA*

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Matthew Sullivan

has participated in

130125 Tunnel Safety Inspection Refresher ILT

hosted by

BSCES

Date: March 30 - April 1, 2021

Location: Online Delivery, MA

Hours of Instruction: 17

Instructor

Instructor

Richard Keenan
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®

Acknowledges that

MATTHEW SULLIVAN

has demonstrated through practical and written examinations,
attainment of SPRAT's
Certification Requirements for Rope Access Work,
and is therefore

CERTIFIED

Level 2 Rope Access Technician

SPRAT # 130358

AWARDED: May 21, 2021

Expires: May 21, 2024

TROLL, EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT


I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION
IV NAME
MATTHEW P SULLIVAN
V ADDRESS 31 BLITHEWOOD AVE APT 1606
WORCESTER MA 01604-3555
VI NATIONALITY USA
IVa D.O.B. 18 DEC 1984
SEX HEIGHT WEIGHT HAIR EYES
M 74 180 BROWN BLUE
IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF
II REMOTE PILOT
III CERTIFICATE NUMBER 4172067
X DATE OF ISSUE 28 AUG 2018
XIV
VIII ACTING ADMINISTRATOR
U
A
S

NCEES

Examinee

Name
Bryan Sweeney
NCEES ID
15-499-50

Latest Photo

Exam

FE Civil
Date: 11/11/2014
Result: Pass
Board: South Carolina

Verifiable Link

https://account.ncees.org/rn/1549950-761435-dce9a08

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Bryan Sweeney

has participated in

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

hosted by

Marine Solutions, Inc.

Date: *April 3-14, 2017*

Location: *Rosedale, MD*

Hours of Instruction: 67

Guy R Lang PE
Instructor

James A Grundy
Instructor

Danette Hodson
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

NCEES

Examinee

Name
Victor Zhang
NCEES ID
18-314-07

Latest Photo

Exam

FE Civil
Date: 12/16/2017
Result: Pass
Board: North Carolina

Verifiable Link

`https://account.ncees.org/rn/1831407-1037568-8318`

Sharing your exam result

Copy and paste the unique verifiable link shown above to allow others to verify this exam result in a secure environment.

Licensure requirements in the United States

Licensure for the engineering and surveying professions is regulated by each individual U.S. state and territory. All candidates for licensure must meet specific requirements in education, experience, and exams. Passing an NCEES exam is only part of the licensure process.

Examinees interested in pursuing licensure are encouraged to check the requirements of the state or territory where they plan to practice, as the requirements vary.

View state requirements.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Victor Zhang

has Successfully Completed

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

hosted by

WSP

Date: *January 03-14, 2022*

Location: *Raleigh, NC*

Hours of Instruction: 67

William R Barker PE
Instructor

P.E.
Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

national highway institute

CERTIFICATE OF TRAINING

Victor Zhang

has participated in

NHI Course No. FHWA-NHI-130101A

Prerequisite Assessment for Safety Inspection of In-Service Bridges - WEB-BASED

Hosted by: **National Highway Institute**

Location: *Web-Based Course*

Hours of Instruction: *1 hours*

Date: *12/21/2021*

Thomas P. Harman

Thomas P. Harman
Acting Director | National Highway Institute

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

Name:	Public Address:
WSP USA Inc.	Ms. Meghan SotoOne Penn Plaza, 4th Floor New York, New York 10119

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000623	Active	09/26/1984	03/31/2024	Mrs. Rebecca Davezac Howell # PE.0042559

20. Certifications/Licenses:
SUBCONSULTANTS - Buchart Horn, Inc.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/30/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. James Quinton Dickerson III
133 Hemlock Road
Batesville, Mississippi 78606

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. James Quinton Dickerson III

License/Certificate Type - Number: PE.0038922
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.

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.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 4/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Kevin John Gaspard
3314 Westervelt Avenue
Baton Rouge, Louisiana 70820

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. Kevin John Gaspard

License/Certificate Type - Number	Expiration Date
PE.0023835	03/31/2023

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.

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Program
LPA Project Development and Design Process for the LPA Responsible Charge Module

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

Kevin Gaspard

HAS SATISFACTORILY COMPLETED 7 HOURS OF TRAINING

Steven C. Strength

Director of Local Technical Assistance Program

June 15th, 2022
Date

Baton Rouge, LA
Location

 Prime consultant name: WSP USA Inc.

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kevin Gaspard

has attended

Traffic Control Technician-LA State Specific

Training Course

4/6/2021 to 4/6/2025
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

Congratulations!
Kevin Gaspard

You have completed

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

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 4/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Caldwell Phillips Joy II
18163 East Petroleum Drive, Suite A
Baton Rouge, Louisiana 70809

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. Caldwell Phillips Joy II

License/Certificate Type - Number	Expiration Date
PE.0043830	03/31/2024

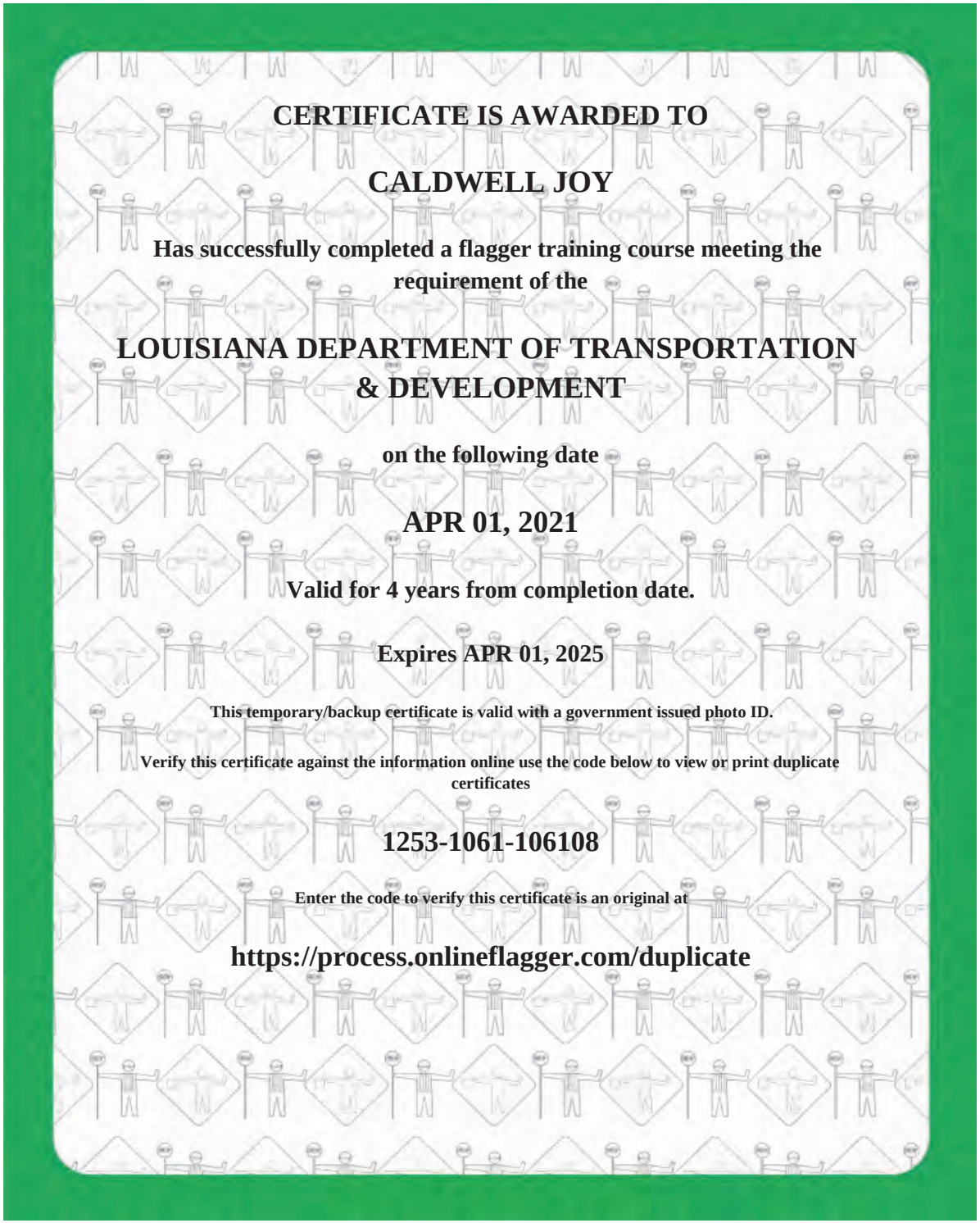
Status: Active

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.



CERTIFICATE IS AWARDED TO

CALDWELL JOY

Has successfully completed a flagger training course meeting the requirement of the

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

on the following date

APR 01, 2021

Valid for 4 years from completion date.

Expires APR 01, 2025

This temporary/backup certificate is valid with a government issued photo ID.

Verify this certificate against the information online use the code below to view or print duplicate certificates

1253-1061-106108

Enter the code to verify this certificate is an original at

https://process.onlineflagger.com/duplicate

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Cal Joy

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/7/2021 to 4/8/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

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

Cal Joy

has attended

Traffic Control Technician-LA State Specific

Training Course

4/6/2021 to 4/6/2025
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

Congratulations!

Cal Joy

You have completed

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

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Program
LPA Project Development and Design Process for the LPA Responsible Charge Module

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

Hugo Leiva

HAS SATISFACTORILY COMPLETED 7 HOURS OF TRAINING

Director of Local Technical Assistance Program

June 15th, 2022
Date

Baton Rouge, LA
Location

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
&
The Federal Highway Administration

TO CERTIFY THAT

Hugo Leiva

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS

Steven C. Strength
Director, LTAP

June 14, 2022
Date

Baton Rouge, Louisiana
Location


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Hugo Leiva
has attended
Traffic Control Supervisor-LA State Specific
Training Course
11/10/2021 to 11/11/2025
Training Valid Through
Director of Training
Baton Rouge, LA
Location
President, CEO
ATSSA provides training and certification but neither constitutes employment by ATSSA.
ATSSA
American Traffic Safety Services Association ATSSA.com


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Hugo Leiva
has attended
Traffic Control Technician-LA State Specific
Training Course
11/9/2021 to 11/9/2025
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

Congratulations!

Hugo Leiva

You have completed

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

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 4/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Joseph Folse Mingo
3500 North Causeway Boulevard, Suite 1060
Metairie, Louisiana 70002

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. Joseph Folse Mingo

License/Certificate Type - Number: PE.0043700

Expiration Date: 03/31/2024

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.

Certificate of Training

this certifies that

Joseph Mingo

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training Course

Awarded on this **31st** *day of* **March 2021**

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
&
The Federal Highway Administration

TO CERTIFY THAT

Joey Mingo

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS

Steven C. Strength

Director, LTAP

June 14, 2022
Date

Baton Rouge, Louisiana
Location

 Prime consultant name: WSP USA Inc.

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Mingo

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/7/2021 to 4/8/2025
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

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Mingo

has attended

Traffic Control Technician-LA State Specific

Training Course

4/6/2021 to 4/6/2025
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

Congratulations!

Joey Mingo

You have completed

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

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/30/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. William Andrew Pinkley
3150 Lenox Park Boulevard
Memphis, Tennessee 38115

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. William Andrew Pinkley

License/Certificate Type - Number: PE.0040713

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.

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.

20. Certifications/Licenses:
SUBCONSULTANTS:
Urban Systems, Inc.

Alison Catarella Michel, P.E., PTOE, PTP, RSP1

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

Ms. Alison Marie Catarella Michel

License/Certificate Type - Number: PE.0030261
Expiration Date: 03/31/2023
Status: Active

TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.™

Ms. Alison Catarella Michel , P.E. , PTOE , F ITE
Transportation Engineer
Urban Systems, Inc.
Business Address (Preferred Mailing Address)
400 N. Peters, Suite 206D
New Orleans, LA 70130
USA
T: (504) 523-5511 F: (504) 523-5522
E-Mail: acmichel@urbansystems.com

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Transportation Professional Certification Board Inc.
1627 Eye Street, NW, Suite 600, Washington, DC 20006 USA
Telephone: +1 202-785-0060 | Fax: +1 202-785-0609
E-mail: certification@ite.org
©2008 Transportation Professional Certification Board Inc.

PTOE 1023

Exp. Date 11/06/2023

DESTINATION ZERO DEATHS

This certificate of training is presented to
ALISON MICHEL
In Recognition of Attending
Highway Safety Manual Workshop
Baton Rouge, Louisiana

Elizabeth Wemple, PE
Eric Tang, PE
Instructor
18.0 Professional Development Hours
Nov 30—Dec 2, 2011
Date

Transportation Professional Cer
1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel:

Ms. Alison Catarella Michel, P.E., PTOE, PTP,RSP1
Urban Systems, Inc.

Thank you for renewing your certification as a Professional Traffic Operations Engineer** (PTOE).
As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations E

Your certification is renewed through 11/6/2023.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration c

At the end of the three-year period, your certification will be renewed without examination provi

Transportation Professional Certification Board, Inc.
certifies that
Alison Marie Catarella Michel
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 626 issued in Washington, DC, USA
11/20/17
Michael R. Park, Chair | Jeffrey F. Paniati, Executive Director

PTP 626

Exp. Date 11/20/2023

Transportation Professional Certification Board, Inc.
certifies that
Alison Catarella Michel
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 115 issued in Washington, DC, USA
12/21/2018
Diane Morales, Chair | Jeffrey F. Paniati, Executive Director

RSP_1 113

Exp. Date 12/21/2024

National Highway Institute

Certificate of Training

Alison Michel

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

Local Coordinator

Richard Barnaby, Director
National Highway Institute

Certificate of Completion

presented to

Alison Catarella-Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Certificate of Completion

presented to

Alison Catarella-Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Certificate of Completion

presented to

Alison Catarella-Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Christine M. Darrah, P.E.

PROOF OF CERTIFICATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Christine Darrah

THIS INDIVIDUAL IS CERTIFIED BY ATSSA AS A

Louisiana Traffic Control Supervisor

This certified individual has demonstrated a thorough knowledge of the standards, guidelines and practices of traffic control in highway construction and maintenance work areas; has completed all the requirements of the American Traffic Safety Services Association Certification Program to the satisfaction of the Certification Board; and is hereby awarded the above designation. This certified individual is fully entitled to all the rights and privileges associated with this designation. This certificate will remain in effect until the expiration date noted herein unless otherwise revoked by action of the Certification Board.

ISSUE DATE 4/8/2021
EXPIRATION DATE 4/7/2025
CERTIFICATION # 573755

American Traffic Safety Services Association
ATSSA.com

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

Mrs. Christine Mire Darrah

License/Certificate Type - Number
PE.0028528

Expiration Date
09/30/2023

Status: Active

CERTIFICATE

Louisiana Urban Stormwater Coalition

WATERWISE NOLA

hereby recognizes that

Christine Darrah

has completed the LUSC Training

Design, Construction & Maintenance of Green Infrastructure

(8 hours of Classroom Instruction)

and is now a Water Wise NOLA certified Green Infrastructure Professional 1

06/19/2015
Date

Instructor

LOUISIANA URBAN STORMWATER COALITION

Certificate of Completion

presented to

Christine Darrah

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Christine Darrah

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Christine Darrah

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 8, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Matthew H. Morgan

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

Mr. Matthew Hansen Morgan

License/Certificate Type - Number	Expiration Date
EI.0033492	03/31/2024

Status: Active

Louisiana Professional Engineering
and
Land Surveying Board

Hereby Certifies that
Mr. Matthew Hansen Morgan
has satisfied the applicable requirements and is therefore licensed as a
Professional Engineer
and hereby entitled to practice engineering in the State of Louisiana.

Baton Rouge, Louisiana August 11, 2022

License Number PE.0047060

Certificate of Training

this certifies that

Matthew M. Morgan

has successfully completed the training
program requirements for

National Flagger Certification Training Course

Awarded on this 23rd day of August 2022

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

Certificate of Completion

presented to

Matthew Morgan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDH) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Matthew Morgan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDH) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Matthew Morgan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDH) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Nicole H. Stewart, P.E., PTOE

ATSSA CERTIFIED

PROOF OF CERTIFICATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Nicole Stewart

THIS INDIVIDUAL IS CERTIFIED BY ATSSA AS A

Traffic Control Supervisor

This certified individual has demonstrated a thorough knowledge of the standards, guidelines and practices of traffic control in highway construction and maintenance work areas; has completed all the requirements of the American Traffic Safety Services Association Certification Program to the satisfaction of the Certification Board; and is hereby awarded the above designation. This certified individual is fully entitled to all the rights and privileges associated with this designation. This certificate will remain in effect until the expiration date noted herein unless otherwise revoked by action of the Certification Board.

ISSUE DATE 11/4/2020
EXPIRATION DATE 11/3/2024
CERTIFICATION # 840319

ATSSA American Traffic Safety Services Association ATSSA.com

Traffic Control Supervisor Certificate
Issued: 11/4/2020
Expiration: 11/3/2024
Certification #: 840319

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Certificate of Registration

This acknowledges that

Urban Systems Associates, Inc.
Urban Systems, Inc.

has fulfilled the requirements of the State of Texas to offer and perform engineering services in the State of Texas. In witness whereof we have hereunto set our hands and affixed the seal of the Board, this 28th day of October, 2022.

Registration Number
F - 23935

Dr. Sina K. Nejad, P.E., P.Eng., Board Chair

Coleen Johnson, R.P.L.S., Secretary

The American Traffic Safety Services Association

Hereby recognizes that

Nicole Stewart
has attended
Traffic Control Supervisor-LA State Spec-Grant
Training Course

02/06/2013
Date

Baton Rouge, LA
Location

ATSSA SAVING LIVES

Training & Products Dept. Director

President, CEO

8.50 x 11.00 in

TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.™

Mrs. Nicole H. Stewart , P.E. , PTOE , M ITE

Transportation Engineer
Urban Systems, Inc.

Business Address (Preferred Mailing Address)
400 N. Peters, Suite 206
New Orleans, LA 70130
USA

T: (504) 523-5511 F: (504) 523-5522
E-Mail: nhstewart@urbansystems.com

New Search | Refine Search

Transportation Professional Certification Board Inc.
1627 Eye Street, NW, Suite 600, Washington, DC 20006 USA
Telephone: +1 202-785-0060 | Fax: +1 202-785-0609
E-mail: certification@ite.org
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PTOE 2923 - 8/2023

DOTD

DESTINATION ZERO DEATHS

This certificate of training is presented to

NICOLE STEWART

In Recognition of Attending

Highway Safety Manual Workshop

Baton Rouge, Louisiana

Elizabeth Wemple, PE
Eric Tang, PE
Instructor

18.0 Professional Development Hours

June 1-3, 2011
Date

Certificate of Completion

presented to

Nicole Stewart

for completing the

Traffic Engineering Analysis Process & Report
Module 1

January 14, 2019
Baton Rouge, Louisiana

Certificate of Completion

presented to

Nicole Stewart

for completing the

Traffic Engineering Analysis Process & Report
Module 3

January 14, 2019
Baton Rouge, Louisiana

Certificate of Completion

presented to

Nicole Stewart

for completing the

Traffic Engineering Analysis Process & Report
Module 2

January 14, 2019
Baton Rouge, Louisiana

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

If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

NA

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 (as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**
Buchart Horn, Inc.	18163 East Petroleum Drive, Suite A Baton Rouge, LA 70809-6104	James Q. Dickerson, III, PE, PS JDickerson@bucharthorn.com	(662) 267-5038
Urban Systems, Inc. (DBE)	2000 Tulane Ave. Suite 200 New Orleans, LA 70112	Alison Michel, PE, PTOE, PTP acmichel@urbansystems.com	(504) 569-3958

(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.

NA