DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ CONTRACT FOR IN-DEPTH BRIDGE INSPECTION STATEWIDE
2. Contract Number(s) as shown in the advertisement	CONTRACT NOS. 4400029683, 4400029684, AND 4400029685
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name **(name must match as registered with the Louisiana Secretary of State where such registration is required by law)**	Bridge Diagnostics, 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.0005036
6. Prime consultant mailing address	Bridge Diagnostics, Inc. 740 South Pierce Ave. Unit 15 Louisville, CO 80027
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	Bridge Diagnostics, Inc. 4300 S I-10 Service Road W Ste 210 Metairie, LA 70001
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Shane Boone, PhD, PE Senior Vice President (919) 907-8887 shaneb@bditest.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Shane Boone, PhD, PE Senior Vice President (919) 907-8887 shaneb@bditest.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 above shall be the same person listed in Section 9:  Date: August 8, 2024
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): Engineering Operations, LLC.	Firm(s)' %: 5%

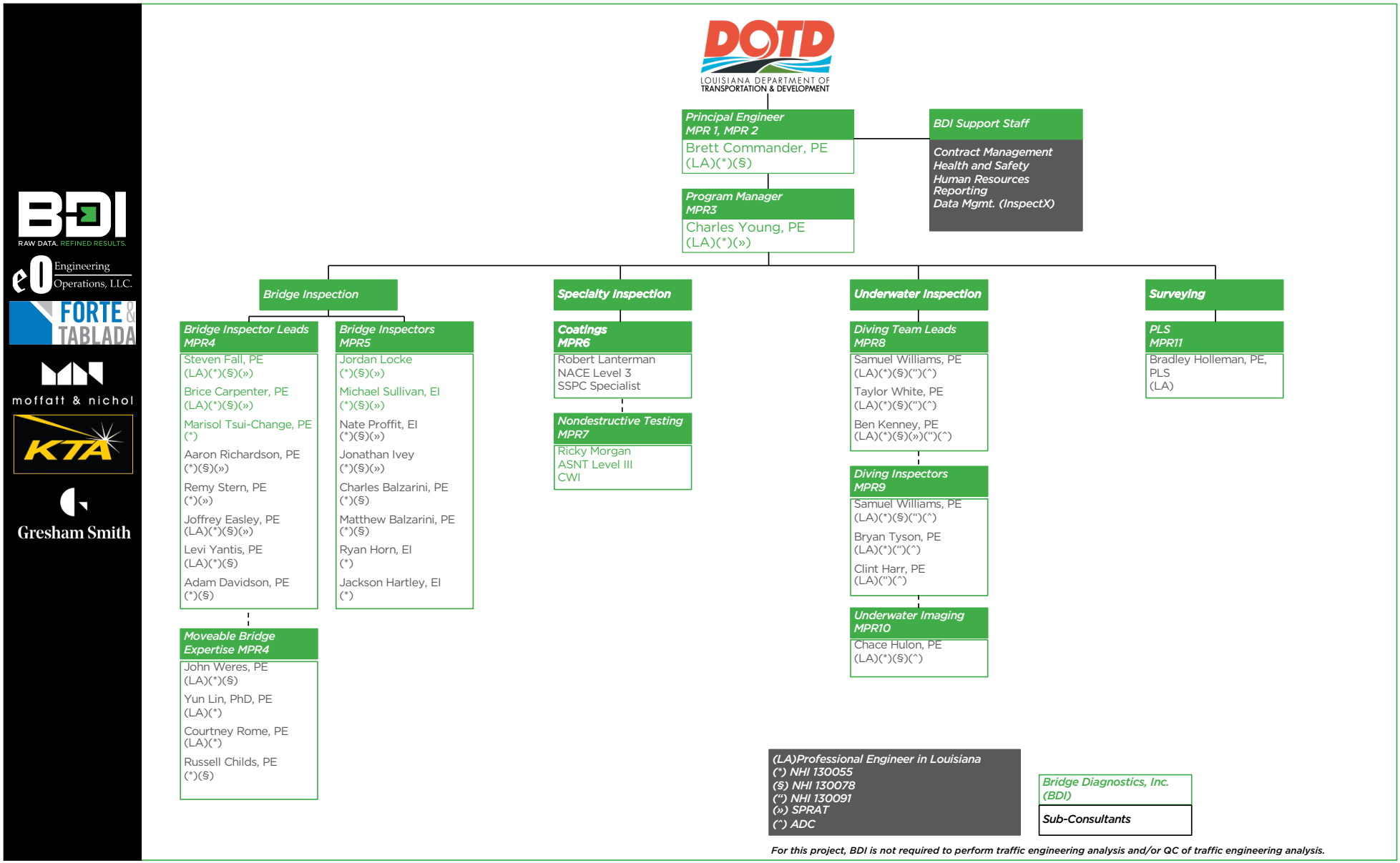
12. <u>Past Performance Evaluation Discipline Table:</u>

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime ***Bridge Diagnostics, Inc. (BDI)***	Firm B ***Engineering Operations, LLC***	Firm E ***Forte & Tablada, Inc.***	Firm C ***Moffatt and Nichol, Inc.***	Firm D ***KTA-Tator, Inc.***	Firm E ***Gresham Smith***	Each Discipline must total to 100%
Bridge	80%	60%	5%	5%	15%	5%	10%	**100%**
Data Collection	10%	70%	5%	10%	5%	5%	5%	**100%**
Survey	10%	60%	0%	40%	0%	0%	0%	**100%**
Identify the percentage of work for the **<u>overall contract</u>** to be performed by the prime consultant and each sub-consultant.								
Percent of Contract	**100%**	61%	5%	9%	13%	4%	8%	-----

13. <u>Firm Size:</u>

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Bridge Diagnostics, Inc.	Principal	3	3
	Supervisor – Engineer	3	6
	Supervisor – Other	8	11
	Engineering – Aide	1	1
	Inspector – Lead	5	6
	Inspector – Bridge	7	8
	Engineer – Other	1	3
	Engineer Intern	3	6
	Senior Technician	10	13
	Technician	4	4
	Computer Analyst	4	7
	Accountant	2	2
	Administrative	1	1
	Clerical	4	6
	Professional	10	12
Engineering Operations, LLC.	Principal	1	1
	Supervisor – Engineer	1	3
	Inspector – Lead	1	4
	Inspector – Bridge	2	4
	Engineer Intern	2	2
	Administrative	1	3
Forte and Tablada, Inc.	CADD Technician	2	4
	Engineer	1	4
	Instrument Man	1	3
	Party Chief	1	5
	Principal	1	3
	Rodman	1	5
	Senior Technician	2	6
	Supervisor – Engineer	1	4

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Moffatt & Nichol, Inc.	Principal	1	2
	Administrative	2	4
	CADD – Operator	5	6
	Senior Technician	8	13
	Engineer Intern	6	10
	Engineer	8	39
	Engineer – Other	6	12
	Supervisor - Engineer	3	10
	Inspector – Bridge	8	13
	Inspector – Lead	8	25
	Other (Underwater Inspector – Bridge)	7	10
	Other (Underwater Inspector – Lead)	6	12
KTA-Tator, Inc.	Supervisor-Other	1	4
	Clerical	1	3
Gresham Smith	Principal	1	1
	Supervisor - Engineer	4	8
	Engineer	2	6
	Engineer Intern	4	8
	Inspector Bridge	1	3
	Clerical	1	1



BDI
RAW DATA. REFINED RESULTS.

eO Engineering Operations, LLC.

FORTE & TABLADA

moffatt & nichol

KTA

Gresham Smith

15. <u>Minimum Personnel Requirements:</u>

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1, 2	Brett Commander, PE	Bridge Diagnostics, Inc.	PE 0035864 – Civil NHI 130055 NHI 130078	LA	03/31/2025
3	Charles Young, PE	Bridge Diagnostics, Inc.	PE 0042773 – Civil NHI 130055 SPRAT I	LA	03/31/2025
4	Steven Fall, PE	Bridge Diagnostics, Inc.	PE 0048637 – Civil NHI 130055 NHI 130078 SPRAT I	LA	09/30/2024
4	Marisol Tsui-Chang, PE	Bridge Diagnostics, Inc.	PE 0402065562 – Civil NHI 130055	VA	08/31/2024
4	Brice Carpenter, PE	Bridge Diagnostics, Inc.	PE 0039341 – Civil FHWA Comprehensive Bridge Inspection Course	LA	03/31/2025
4	Aaron Richardson, PE	Engineering Operations, LLC.	PE 90914 - Civil NHI 130055 NHI 130078 SPRAT I	FL	02/28/2025
4	Remy Stern, PE	Engineering Operations, LLC.	PE 18375 - Civil NHI 130055 SPRAT I	WY	12/31/2024
4	Joffrey Easley, PE	Forte & Tablada, Inc.	PE 0031542 – Civil NHI 130055 NHI 130078	LA	03/31/2025
4	Levi Yantis, PE	Forte & Tablada, Inc.	PE 0042390 – Civil NHI 130055 NHI 130078	LA	09/30/2024

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
4	John Weres, PE	Gresham Smith	PE 0036429 NHI 130055 NHI 130078	LA	09/30/2025
4	Adam Davidson, PE	Gresham Smith	PE 110436 NHI 130055 NHI 130078	TN	01/31/2026
4	Courtney Rome, PE	Gresham Smith	PE 0043355 NHI 130055	LA	09/30/2024
4	Russell Childs, PE	Gresham Smith	PE 17676 NHI 130055 NHI 130078	MS	12/31/2025
4	Yun Lin, PhD, PE	Gresham Smith	PE 0042444 NHI 130055	LA	09/30/2024
5	Michael Sullivan, EI	Bridge Diagnostics, Inc.	EI 420069359 NHI 130055 NHI 130078 SPRAT I	VA	07/10/2026
5	Jordan Locke	Bridge Diagnostics, Inc.	NHI 130055 NHI 130078 SPRAT III	N/A	02/04/2025
5	Nate Proffit, EI	Engineering Operations, LLC.	EI 85798 NHI 130055 NHI 130078 SPRAT I	MT	06/30/2026
5	Jonathan Ivey	Engineering Operations, LLC.	NHI 130055 NHI 130078 SPRAT II	N/A	06/28/2027
5	Charles Balzarini, PE	Moffatt & Nichol, Inc.	PE CE13854 - Civil NHI 130055	AK	12/31/2025
5	Matthew Balzarini, PE	Moffatt & Nichol, Inc.	PE CE118893 - Civil NHI 130055	AK	12/31/2025

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
5	Ryan Horn, EI	Gresham Smith	EI 028076 NHI 130055	GA	05/13/2028
5	Jackson Hartley, EI	Gresham Smith	EI 35058 NHI 130055	LA	01/19/2026
6	Robert Lanterman	KTA-Tator, Inc.	NACE Certified Coatings Inspector Level 3 (#13505) SSPC Certified Protective Coatings Specialist (#2015-820-136)	N/A N/A	05/23/2025 12/31/2027
7	Ricky Morgan, ASNT Level III	Bridge Diagnostics, Inc.	ASNT Level III 56955 CWI 96041161	N/A	11/01/2025
8	Samuel Williams, PE	Engineering Operations, LLC.	ADC 61430 NHI 130091	N/A	06/26/2025
8	Taylor White, PE	Engineering Operations, LLC.	ADC 58043 NHI 130091	N/A	07/15/2028
8	Benjamin Kenney, PE	Engineering Operations, LLC.	ADC 53914 NHI 130091	N/A	04/20/2026
9	Samuel Williams, PE	Engineering Operations, LLC.	ADC 61430 NHI 130091	N/A	06/26/2025
9	Bryan Tyson, PE	Moffatt & Nichol, Inc.	ADC 54102 NHI 130091	N/A	04/06/2026
9	Clint Harr, PE	Moffatt & Nichol, Inc.	ADC 62866 NHI 130091	N/A	04/28/2026
10	Chace Hulon, PE	Moffatt & Nichol, Inc.	Marine Engineering Sonar Course, Level 1 – 18 yrs	USA	Certified on 06/15/18 (no expiration)
11	Bradley S. Holleman, PE, PLS	Forte and Tablada, Inc.	PLS 5082 – Survey	LA	09/30/2024

16. Staff Experience:

Firm employed by **Bridge Diagnostics, Inc. (BDI)**				
Name	Brett Commander, PE		Years of relevant experience with this employer	35
Title	Principal Engineer		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 1989 / Structural Engineering; BS / 1986 / Civil Engineering		
Active registration number / state / expiration date		35864 LA – 3/31/2025		
Year registered	2010	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		Principal Engineer | **Meets MPR 1, 2, 3, 4 (a), 5 – meets minimum 5-year requirement**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/89 - Present	**General Experience** - Mr. Commander has 36 years of experience in structural inspection and evaluation of highway bridges and other civil structures. As a principal and cofounder of BDI, his experience is based on field verified performance and condition assessment of existing structures under normal service conditions as well as extreme load and environmental situations. Structural evaluation methods include inspection, load testing, advanced finite element analysis, load rating, structural monitoring, and nondestructive testing and evaluation (NDT-E) of structural systems. While inspection and load ratings are often considered a common commodity, ***Mr. Commander's experience has been honed on difficult to assess complex bridges such as cable-stayed, suspension, truss, and moveable bridges. He is an active professional engineer (Civil) in the state of Louisiana.***
07/16 - Present	**NHI Certified Bridge Inspector and Team Lead** – While Mr. Commander has performed hands-on assessment of structural performance and condition through standard visual inspection, instrumentation, and NDT-E since his University of Colorado research in 1987, he ***began BDI's official NHI bridge inspection program in 2016***. This program will be a key factor in our ability to perform inspections for DOTD.
12/17 - Present	**US Army Corps of Engineers Instrumentation and Monitoring IDIQ** – Principal-in-Charge responsible for inspection, instrumentation, structural testing and monitoring of mechanical systems, moveable structures, and stationary structures at several dam bridges in the northwest region. Mr. Commander's role is to address issues presented by USACE project and district personnel and develop inspection and instrumentation methods that best answer complex problems. In addition, he manages BDI engineers to develop and implement various inspection, testing, and monitoring programs. The initial 2017 IDIQ was a $5M/5-year contract utilized by all USACE districts in the northwest region. This contract was re-awarded to BDI in 2023 as a $7M/5-year contract. ***This project is relevant as it showcases that Mr. Commander is tasked to develop inspection methodologies, lead inspections, and quantify the condition and performance of critical and complex structures.***
07/17 - 08/23	**Bear River Siphon Suspension Bridge** – Principal Engineer providing inspection, instrumentation, testing, and analytical methods to evaluate cable tensions and dynamic performance of the Bear River Siphon Bridge, a single span suspension bridge carrying a 54-inch water pipe over the Bear River near Auburn, CA. Inspection and testing was performed due to concerns of excessive dynamic motion during various flow rates. BDI was subcontracted by Stantec to assist in inspection and to determine in-situ cable tension of the suspender and suspension stay cables as well as determine modal frequencies, mode shapes, and damping characteristics. Inspection and testing was performed in 2018 to establish the initial cable tensions and dynamic signature. Repeat tests were performed after structural modifications were performed in 2023. ***This project illustrates Mr.***

	Commander's technical experience with suspension bridges as well as BDI's ability to inspect these structures and measure responses and evaluate dynamic structural performance.
12/16 - 06/23	**Port of New Orleans Seabrook Bascule Bridge** – Principal Engineer responsible for assistance with inspection, development of instrumentation, testing, and counterweight-to-span balance and trunnion friction calculations. The Seabrook railroad bridge is a Strauss double heel-trunnion bascule bridge crossing the Industrial Canal. Due to its exposure to saltwater and hurricane winds it is subject to extensive corrosion and operational issues. As a subcontractor to CEC and Huval & Associates, BDI performed balance and friction tests on four separate instances after various stages of repair construction. ***This project illustrates Mr. Commander's technical capabilities with regards to managing projects involving the inspection and evaluation of complex moveable structures.***
07/19 – 01/20	**Port of New Orleans St Claude Bascule Bridge –** Principal Engineer responsible for assistance with inspection, development of instrumentation, testing and analytical procedures required to evaluate observed performance issues and compute counterweight/span balance. This bridge is a Strauss double heal-trunnion bascule bridge that carries St. Claude Avenue over the Industrial Canal. During an inspection, the counterweight-to-span link bushings were found to be broken and falling out of the bearing hub and BDI subsequently measured force and moment in the truss link member and evaluate the span balance and operational friction. Operational test results showed high levels of friction and asymmetry in both the friction and lifting torque. Tests were initially performed to identify operational issues and again after bushings were replaced and drive torque imbalance conditions were addressed. BDI's instrumentation and data analysis was essential to identifying and solving the operational problems. ***The primary relevance of this project is identification and quantification of operational performance of bascule bridges as well as BDI's ability to quickly move from inspection findings to more advanced evaluation methods to assist the owners in not only identifying a problem but providing a solution for them to better manage the asset.***
04/19 – 06/19	**West Larose Lift Bridge NDE and Counterweight Balancing** – Principal Engineer providing QC of weld inspection and cable force measurements used to weigh the span and counterweight at each corner of the lift span. ***Mr. Commander developed BDI's field inspection plan and in-situ cable tension measurement procedures and specified testing requirements for this project.*** BDI was subcontracted by CEC in 2019 to measurements and assist cable tension and counterweight adjustment following maintenance and repairs. Project relevance includes Mr. Commander's knowledge and experience with NDE results and counterweight/span balancing of lift bridges.
04/18 – 09/19	**Sunshine Bridge Emergency Inspection and Monitoring** – Principal Engineer responsible for assistance with inspection, development of instrumentation and monitoring methods. Following a bridge impact by a barge crane, BDI was subcontracted by Modjeski & Masters (LADOTD Task Order H.012343.6-1) to provide assistance with inspection, instrumentation, and monitoring during emergency repairs of this ***signature cantilever truss bridge***. Inspection and installation began within days of the bridge impact and monitoring continued throughout the repair construction.
8/15 – 08/16	**Hale Boggs Memorial (Luling) Bridge Stay Cable Tension Tests** – Principal Engineer providing methodology and result QC of in-situ tension tests on stay cables. In-situ tension values were required on all stay cables before and after deck paving. As a subcontractor to CEC, BDI utilized the Taught Cable Vibration Method (TCVM) to transform cable vibration frequencies into tension forces. Due to the cable lengths and angles, catenary curve effects were considered in the calculations. This project illustrates Mr. Commander's knowledge and BDI's ability to use instrumentation and analytical procedures to determine existing force in stay cables.

Firm employed by **Bridge Diagnostics, Inc. (BDI)**				
Name	Charles Young, PE		Years of relevant experience with this employer	6
Title	Associate Vice President		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			MS / 2017 / Civil Engineering BS / 2012 / Civil Engineering	
Active registration number / state / expiration date			PE.0042773/La/03/31/2025	
Year registered	2018	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Program Manager | **Meets MPR 3, 4 (a), 5 – meets minimum 5-year requirement**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/12-Present	**General Experience** - Mr. Young has ***12 years of experience in the fields of bridge inspection***, nondestructive testing and evaluation (NDT-E), structural monitoring, load testing/rating with ***over 5 years of experience in responsible charge of these inspections***. Mr. Young is responsible for program management, project management, analysis, and field services related to these types of services for BDI. Mr. Young is certified NHI bridge inspector, SPRAT Level I certified ropes inspector, a registered Part 107 UAV Pilot, and ASNT Level II Inspector. He is a registered Professional Engineer in multiple states including Louisiana.
12/22-Present	**IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400025002)** Mr. Young is the Project Manager for the statewide NDE of structures for DOTD under this contract (and was also the PM for the previous statewide contract, 400015262, that began in 2019). Throughout these contracts, and ***over this 5-year time period, Mr. Young had responsible charge of the bridge and structural inspection over multiple river crossing structures***. Mr. Young assists DOTD and the project team with successfully implementing inspection technologies for applications and best methods for analysis and reporting of findings ***into DOTD's asset management software, InspectX***.
07/23-Present	**Inspection of I-20 Decks and Steel Bridge Pins -** BDI performed inspection and NDT-E of 273 bridges including 515 pin and hanger assemblies for LADOTD with ***data uploaded to InspectX*** to assist LADOT in their asset management of these bridges. Mr. Young acted as the project manager for this work. This work was performed under LADOTD contract 4400025002.
5/24-6/24	**FDOT SR3 over Barge Canal Trunnion Inspection –** This project involved inspection and NDT-E of the 12 trunnions of Bridges 700201 and 700072, which were both double leaf rolling bascule structures in FDOT District 5. The visual inspection and NDT-E was performed to inspect for any cracking at the fillet region of the trunnion shaft with MT. Straight beam UT was also utilized at accessible trunnion ends to inspect for any internal indications in the shafts. Mr. Young acted as the project manager for this work. This project ***exemplifies Mr. Young's experience in managing and performing inspection of complex moveable bridges and their components.***
07/21–10/22	**I-10 Over Atchafalaya Basin Inspection and NDE -** The objective of this project as to perform an NHI routine and fracture critical (NSTM) inspection of the bridge carrying I-10 over the Atchafalaya Basin between New Baton Rouge and Lafayette along with targeted NDT-E techniques at various critical portions of the structure. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). This project exemplifies ***Mr. Young's ability to lead the routine and fracture critical inspection of a multi-mile structure over varying water ways as well as BDI's ability to implement advanced technologies to assist in routine inspection.***

10/20–09/22	**Bonnet Carre Spillway Inspection and Nondestructive Evaluation, LA –** This project involved an NHI routine and fracture critical (NSTM) inspection of the Bonnet Carre Spillway Bridge and targeted NDT-E techniques at various critical portions of the structure. Two cycles of Routine and NSTM inspections were conducted for this structure. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). This project exemplifies ***Mr. Young's ability to lead the routine and fracture critical inspection of a multi-mile structure over varying water ways as well as BDI's ability to implement advanced technologies to assist in routine inspection.***
04/20-08/20	**West Seattle High Bridge Inspection and NDE -** BDI performed an inspection and NDT-E of the West Seattle High Bridge Post Tensioned (PT) duct and tendon system, which is a long span cast in place post tensioned segmental box girder structure. Utilizing routine visual inspection and paired with advanced methodologies such as ultrasonic pulse velocity (UPV), BDI measured the extent of cracking potentially caused by flaws in the PT duct system. BDI then utilized GPR, impact echo (IE), and ultrasonic tomography (MIRA) to identify the embedded ducts and locate voids within them. Physical evaluation was then performed to manually inspect the duct with standard drilling operations and a video borescope. Results allowed the Seattle DOT to determine the extent of flaws within the PT duct system and develop an asset management plan for the structure. The resulting rehabilitation design and construction by others was ***selected for ENR Project of the Year in 2023. Mr. Young acted as the Project Manager, Site Supervisor, and lead inspector for the project.***
10/19-11/19	**Fracture Critical (NSTM) Inspection of the Memorial Bridge –** Mr. Young was an in-field inspector on the NSTM Rope Access Inspection of the Memorial Bridge in Augusta, Maine. The bridge is a 2,100 foot long, 12-span structure consisting of steel arch deck truss spans, simply supported steel multi-girder spans. Complex access was required to complete the NSTM inspection including advanced rope access rigging to access cantilever sections of the trusses, steel multigirders, and piers. ***Mr. Young performed the in-field inspection of this complex structure via ropes access.***
04/18 – 06/18	**FDOT SR3 over Barge Canal Trunnion Inspection –** This project involved inspection and NDT-E of the 4 trunnions of the John T. Alsop Bridge, a steel vertical lift bridge carrying US1 and US90 over the St. Johns River in Jacksonville, FL. The visual inspection and NDT-E was performed to inspect for any cracking at the fillet region of the trunnion shaft with MT. Mr. Young acted as the project manager for this work. This project ***exemplifies Mr. Young's experience in managing and performing inspection of complex moveable bridges and their components.***
03/14-04/14	**Port Royal Bridge Fracture Critical (NSTM) Inspection -** Mr. Young was an in-field inspector on the NSTM Rope Access Inspection of the Port Royal Bridge in Port Royal, Pa. The bridge is a 1,087 foot long, 8-span structure consisting of steel through truss spans, steel through girder spans, and steel stringer spans, and reinforced concrete approach slabs. Complex access was required to complete the NSTM inspection including underside rigging and access vehicles. ***Mr. Young performed the in-field inspection of this complex structure via ropes access.***

Firm employed by **Bridge Diagnostics, Inc. (BDI)**					
Name	Steven M Fall Jr., PE		Years of relevant experience with this employer	5	
Title	Associate Project Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering		
Active registration number / state / expiration date			PE.0048637 / Louisiana / 09/30/2024		
Year registered	2024	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/19 - Present	**General Experience** - Mr. Fall has spent more than 5 years in the government and private sectors in both specialized and routine infrastructure inspection and monitoring. He specializes in NDT-E inspection and routine and fracture critical inspection. Mr. Fall has performed several routine and fracture critical inspections on bridges throughout Louisiana. Previously, Mr. Fall worked with HNTB Inc. working in the transportation and civil department performing inspections of substructures and bridges on various jobs. He is a member of ASCE and ACI in the Louisiana chapter. ***Mr. Fall is a certified Professional Engineer in LA, Team Lead under FHWA guidelines for routine inspections, SPRAT L1 ropes access technician, and ASNT Level I GPR inspector.*** He also has worked with various NDE methods for fracture critical techniques including but not limited to Magnetic Particle Testing, Ultrasonic Testing (UT), and Dye Penetrant Testing. He graduated from the University of New Orleans with a bachelor's degree in civil engineering.
2022 – Present	**NHI Certified Bridge Inspector and Team Lead** – While Mr. Fall has performed bridge routine inspections, fracture critical inspections, and hands on NDT-E of bridges since graduating from the University of New Orleans in 2019, he has become part a ***team lead in BDI's bridge inspection program in 2022 after receiving his certifications from NHI for both fracture critical and routine inspection techniques***. This program will be a key factor in our ability to perform inspections for DOTD.
02/24-Present	**Task Order 4 for Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400025002 Task Order 4) –** Team lead for routine inspections responsible for team coordination, scheduling, field inspection, and reporting. Mr. Fall was the team lead for these NHI bridge inspections for Task Order 4 along the Highway 11 bridges near Lake Pontchartrain. Mr. Fall and his team performed routine inspections of three bridges and report on his findings into InspectX.
11/23 – 12/23	**Paris Road Emergency Bridge Inspection in Chalmette, LA**– Team lead for an emergency inspection responsible for team coordination, scheduling, field inspection, and reporting. After noting a critical finding in a routine inspection on bridge recall 001621 by LADOTD on Paris Rd., BDI was called to perform an emergency in-depth inspection on the underside of the structure along with an NDE of the deck. Mr. Fall led the team for the underside inspection and mapped out all defects for the reinforced concrete deck. Mr. Fall reported on these findings, updated element condition states, and drew conclusions based on the NDE to inform LADOTD the overall damage of the deck based on the new critical finding. Mr. Fall also updated the bridge inventory for recall 001621 after the inspection to show new findings. This project exemplifies Mr. Fall's ability to lead an emergency bridge inspection with advanced technologies.
01/21 – 05/23	**Task Orders for Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400017163) –** Team lead and team member for multiple fracture critical and routine inspections across the I-10 corridor responsible for team coordination, scheduling, field inspection, and reporting. ***Mr. Fall was the team lead and team member for multiple NHI routine***

	and fracture critical inspections across the state of Louisiana. The bridges inspected included the I-10 Bonnet Carre Spillway bridges routine and fracture critical inspections and the Whiskey Bay and Pilot Channel system routine and fracture critical bridges. These were multiple systems of several mile long bridges that Mr. Fall was a team lead and member for throughout the swamps of Louisiana. These inspections were a visual inspection of every element on the bridge. Mr. Fall was a team member for the fracture critical inspections on both the steel truss of the Whiskey Bay I-10 bridges and the steel pier cap on the Bonnet Carre inspections. Mr. Fall was a team lead for both the Whiskey Bay Routine Inspection and Bonnet Carre Routine Inspections.
06/2022- 06/2022, 06/2023-06/2023	**Counterweight Balance Testing of the Seabrook Bascule Bridge (Port of New Orleans) in New Orleans, LA –** Team member responsible for field instrumentation and operational testing and reporting. This bridge is a Strauss double heal-trunnion bascule bridge that carries St. Claude Avenue over the Industrial Canal. It is subject to hurricane winds and salt water and therefore has extreme corrosion and operational issues. During an inspection, the counterweight-to-span link bushings were found to be broken and falling out of the bearing hub. BDI was subcontracted by HNTB to measure force and moment in the truss link member and evaluate the span balance and operational friction. Operational test results showed high levels of friction and asymmetry in both the friction and lifting torque. Tests were initially performed to identify operational issues and again after bushings were replaced and drive torque imbalance conditions were addressed. BDI's instrumentation and data analysis was essential to identifying and solving the operational problems. ***The primary relevance of this project is identification and quantification of operational performance of bascule bridges through inspection.***
07/2019 – 01/20	**Counterweight Balance and Friction Assessment of the St. Claude Bride (LADOTD) in New Orleans, LA –** Team Member responsible for field instrumentation and operational testing. BDI performed a counterweight Balance and friction assessment of the St. Claude Bridge to assist LADOTD to bring their bridge into lifting specifications and to determine the friction in each member during lifts. Mr. Fall installed all gages on the shafts and some gages on the steel members of the bridge, performed all testing, and helped report on these findings to help LADOTD balance the counterweight in the bridge and analyze the friction in each member.
04/21 – 05/21	**LA 324 over Bayou Teche** – Team Member responsible with team coordination, field instrumentation and testing, data processing and review, and reporting. As part of Gresham Smith's advanced inspection team, BDI was contracted to perform short-term testing on the pivot pier of this swing bridge. During initial inspection, the pivot pier was observed to significantly rotate/translate during the opening operation. BDI's testing was performed as part of an emergency response to the inspection findings and consisted of taking laser displacement measurements of the pier during operational swings. Through this testing, BDI verified that up to 6" of movement was occurring at the end of the opening operation and provided short- and long-term recommendations. ***Project relevance includes Mr. Fall's and BDI's ability to quickly respond to bridge evaluation needs based on inspection findings, coordinate with a multiple-firm team to identify an effective testing/evaluation procedure, and provide guidance based on our findings.***

Firm employed by **Bridge Diagnostics, Inc. (BDI)**					
Name	Brice Carpenter, PE		Years of relevant experience with this employer	15	
Title	Senior Engineer / Engineering Lead		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MS / 2009 / Structural Engineering BS / 2007 / Civil Engineering		
Active registration number / state / expiration date			0039341LA – 3/31/2025		
Year registered	2010	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/89 - Present	**General Experience** – While obtaining his higher education at the New Mexico State University (NMSU), Mr. Carpenter participated in the NMSU Bridge Inspection Co-op, in which he received ***FHWA approved bridge inspection training and was involved with over 100 bridge inspections*** in the State of New Mexico. During his tenure at BDI, Mr. Carpenter has become BDI's Engineering Lead responsible for advanced testing plan development, data processing and investigation, structural analysis, load rating, and reporting. Mr. Carpenter has been involved with the inspection, testing, monitoring, and evaluation of hundreds of structures of various types (steel, reinforced concrete, prestressed concrete, in simple to complex geometry and configurations) using a variety of design codes such as AASHTO, AREMA, and many state-specific codes including LADOTD specifications. Mr. Carpenter also has years of experience in capacity testing of concrete and steel structures using various NDT-E techniques and has become a part of BDI's NHI bridge inspection program.
07/20 - Present	**NHI Certified Bridge Inspector** – As Mr. Carpenter has performed hands-on assessment of structural performance and condition through instrumentation and NDE since his inspection and research work at NMSU starting in 2006, ***he is an integral part of BDI's NHI bridge inspection program. This program will be a key factor in our ability to perform inspections for DOTD.***
12/16 - 06/23	**Port of New Orleans Seabrook Bascule Bridge** – Project Engineer responsible for assistance with inspection, development of instrumentation, testing, and counterweight-to-span balance and trunnion friction calculations. The Seabrook railroad bridge is a Strauss double heel-trunnion bascule bridge crossing the Industrial Canal. Due to its exposure to saltwater and hurricane winds it is subject to extensive corrosion and operational issues. As a subcontractor to CEC and Huval & Associates, BDI performed balance and friction tests on four separate instances after various stages of repair construction. ***This project illustrates Mr. Carpenter's technical capabilities with regards to performing the inspection and evaluation of complex moveable structures.***
04/21 - 05/21	**LA 324 over Bayou Teche** – Project Engineer responsible with team coordination, inspection and testing plan development, field instrumentation and testing, data processing and review, and reporting. As part of Gresham Smith's advanced inspection team, BDI was contracted to assist in inspection and perform short-term testing on the pivot pier of this swing bridge. During initial inspection, the pivot pier was observed to significantly rotate/translate during the opening operation. BDI's testing was performed as part of an emergency response to the inspection findings and consisted of taking laser displacement measurements of the pier during operational swings. Through this testing, BDI verified that up to 6" of movement was occurring at the end of the opening operation and provided short- and long-term recommendations. ***Project relevance includes Mr. Carpenter's and BDI's ability to quickly respond to bridge inspection findings on moveable structures.***

07/19 – 01/20	**Port of New Orleans Seabrook Bascule Bridge** – Project Engineer responsible for assistance with inspection, development of instrumentation, testing, and counterweight-to-span balance and trunnion friction calculations. The Seabrook railroad bridge is a Strauss double heel-trunnion bascule bridge crossing the Industrial Canal. Due to its exposure to saltwater and hurricane winds it is subject to extensive corrosion and operational issues. As a subcontractor to CEC and Huval & Associates, BDI performed balance and friction tests on four separate instances after various stages of repair construction. ***This project illustrates Mr. Carpenter's technical capabilities with regards to performing inspection and evaluation of complex moveable structures.***
04/19 – 06/19	**Port of New Orleans St Claude Bascule Bridge –** Project Engineer responsible for assistance with inspection, development of instrumentation, testing and analytical procedures required to evaluate observed performance issues and compute counterweight/span balance. This bridge is a Strauss double heal-trunnion bascule bridge that carries St. Claude Avenue over the Industrial Canal. It is subject to hurricane winds and salt water and therefore has extreme corrosion and operational issues. During an inspection, the counterweight-to-span link bushings were found to be broken and falling out of the bearing hub and BDI subsequently measured force and moment in the truss link member and evaluate the span balance and operational friction. Operational test results showed high levels of friction and asymmetry in both the friction and lifting torque. Tests were initially performed to identify operational issues and again after bushings were replaced and drive torque imbalance conditions were addressed. BDI's instrumentation and data analysis was essential to identifying and solving the operational problems. ***The primary relevance of this project is identification and quantification of operational performance of bascule bridges as well as BDI's ability to quickly move from inspection findings to more advanced evaluation methods to assist the owners in not only identifying a problem, but providing a solution for them to better manage the asset.***
04/18 – 09/19	**West Larose Lift Bridge NDE and Counterweight Balancing** – Project Engineer providing QC of weld inspection and cable force measurements used to weigh the span and counterweight at each corner of the lift span. ***Mr. Carpenter assisted in the development of BDI's field inspection plan and in-situ cable tension measurement procedures and specified testing requirements for this project.*** BDI was subcontracted by CEC in 2019 to measurements and assist cable tension and counterweight adjustment following maintenance and repairs. Project relevance includes Mr. Carepenter's knowledge and experience with NDE results and counterweight/span balancing of lift bridges.
8/15 – 08/16	**Sunshine Bridge Emergency Inspection and Monitoring** – Project Engineer responsible for assistance with inspection, development of instrumentation and monitoring methods. Following a bridge impact by a barge crane, BDI was subcontracted by Modjeski & Masters (LADOTD Task Order H.012343.6-1) to provide assistance with inspection, instrumentation, and monitoring during emergency repairs of this ***signature cantilever truss bridge***. Inspection and installation began within days of the bridge impact and monitoring continued throughout the repair construction.

Firm employed by **Bridge Diagnostics, Inc. (BDI)**				
Name	Marisol Tsui-Chang, PE		Years of relevant experience with this employer	2
Title	Project Manager		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			MS / 2018 / Civil Engineering BS / 2016 / Civil Engineering	
Active registration number / state / expiration date			PE. 0402065562 / Virginia / 08/31/2024	
Year registered		Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/23-Present	As a Project Manager at BDI, Ms. Tsui-Chang has experience in performing routine bridge inspection and subsequently applying various NDT-E methods to measure and verify all features of interest. ***She has led the field testing and instrumentation of existing structures, is a professional engineer, and is a team lead under FHWA guidelines for routine inspections.***
07/19-06/20	Ms. Tsui-Chang was a project engineer for the condition assessment and inspection of multiple bridges for the I-35W Corridor in Fort Worth, Texas. She performed the NBIS inspections and repair design recommendations on culverts and bridge substructure elements such as columns, bents and abutments. She conducted the field work as well as the analyses for the condition assessment report preparation, prepared repair design reports and damage quantities for all culverts and bridges.
06/18-02/23	Ms. Tsui-Chang was the senior project engineer for the condition assessment, NBIS inspections, PACP video inspections, repair design recommendations for multiple overpass bridges, walkable culverts, and more than 500 smaller diameter pipes/culverts for the I-66 Transform Outside the Beltway Project in Fairfax, Virginia. She performed visual assessment of all bridges and assisted or conducted NBIS inspections. Ms. Tsui-Chang also prepared repair design reports and damage quantities for these bridges. ***This project exemplifies BDI's and Ms. Tsui-Chang's ability to perform inspection and reporting on a high quantity of bridges.***
04/24-05/24	A routine visual inspection of the Pleasant Grove Blvd. Bridge over I-15 identified concrete spalling, honeycombing, and discoloration of the AASHTO Type V girders. BDI subsequently performed and emergency NDT-E investigation to determine the extent of the defect in all girders. Ultrasonic tomography was performed at select locations, followed by load rating of the structure. Ms. Tsui-Chang served as the Project Manager, coordinating the field inspection, managing the overall analysis and reporting, and coordinating with the client. ***This project exemplifies BDI's and Ms. Tsui-Chang's ability to provide inspection and subsequent emergency response with advanced technologies to assist the owner in not only identifying a problem, but providing a solution.***
11/23-Present	BDI performed a comprehensive visual inspection and condition assessment of the bridge carrying US-33 over the Mattaponi river near West Point, VA. The structure, consisting of 8 spans of AASHTO bulb tee post-tensioned girders has a total of more than 15,000 LF of PT ducts. The primary objective was to identify voids and soft grout within the ducts. Based on routine visual inspection results, Ms. Tsui-Chang developed a specialized inspection plan to identify the voids with NDT-E and subsequently perform physical verification and provide VDOT with locations for repair.

Firm employed by **Bridge Diagnostics, Inc. (BDI)**					
Name	Michael A. Sullivan, EIT		Years of relevant experience with this employer	5	
Title	Staff Engineer		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			BS / 2016 / Civil Engineering		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 4 (b), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/2016-Present	**General Experience** – Mr. Sullivan has 8 years of routine and fracture critical inspection and structural testing/monitoring experience. He specializes in the evaluation of civil infrastructure, including bridges, dams and tunnels. ***Mr. Sullivan is an NHI-certified bridge inspector and Level I SPRAT rope access technician.***
06/2023-07/2023	**Mt. Hope Bridge -** BDI conducted inspection and short-term vibration monitoring of the steel deck truss and cable force testing of select steel hanger cables along the Mt. Hope Bridge in Rhode Island. The purpose of the inspection and instrumentation was to assess the cables' vibration characteristics and forces in the bridge to aid an analysis of a proposed anti-suicide barrier installation. Mr. Sullivan conducted the visual inspection, cable force testing, and monitoring system installation, documenting the installation and testing/monitoring procedures.
09/2022-05/2023	**Sikanni Chief River Bridge –** BDI conducted load testing and load rating of the Sikanni Chief River Bridge in British Columbia, Canada after a tanker truck accident resulted in an intense fire on the bridge. The fire resulted in significant damage to the prestressed concrete bridge girders, which caused concerns about the structure's load carrying capacity given its location along a major truck route on the Alaska Highway. Load tests were conducted in the immediate aftermath of the fire to determine a safe load restriction level for the damaged condition, and again after concrete repairs had been completed to evaluate the sufficiency of the rehabilitation work and remove the traffic restrictions. Mr. Sullivan conducted visual inspection after the fire and performed the instrumentation installation and load testing procedures for both tests of the structure and reported the results to the client. Installation of sensors for the testing required identifying locations of cracking, spalling, delamination and other deterioration to ensure the collection of quality structural response data. ***This project exemplifies Mr. Sullivan's ability to perform bridge inspection and subsequent load testing as part of the inspection findings.***
09/2020-03/2022	**Pearl Harbor Memorial Bridge –** BDI performed cable and load testing and inspection on the Pearl Harbor Memorial Bridge (Q-Bridge) carrying I-95 over the Quinnipiac River in New Haven, Connecticut. The monitoring system was installed to investigate the development of cracking identified in segmental concrete box girders, near cable stay connections to the deck, and along the towers of the extradosed bridge. As part of the monitoring, BDI conducted annual inspection, cable force testing ,and live load testing to aid in the evaluation of the structure. Mr. Sullivan conducted the annual inspection, cable force testing and live load testing, providing summary reports to the client. ***This project relevance is towards Mr. Sullivan's expertise in the inspection and testing of cable-stayed bridges.***

12/2020 – 02/2022	**Glimmer Glass Bridge –** The Glimmer Glass Bridge is a historic cable lift bascule bridge in New Jersey, built in 1898. The bridge features an open-grid steel deck supported by a steel floor system, a timber lifting frame, and a rolling counterweight. Initial inspection and lift testing performed on this structure by BDI in December 2020 found significant imbalance between lifting components on the north and south side of the bridge. Additional inspection, lift testing, live load testing, and cable force testing were subsequently conducted in February 2022 to provide the client with a more comprehensive understanding of the structure's condition and behavior. Mr. Sullivan performed inspection, installation and data collection during the 2020 testing, and served as lead inspector during the 2022 testing. He oversaw the installation of instrumentation equipment and conducted all inspection and testing operations. ***This project exemplifies Mr. Sullivan's expertise in inspecting, instrumenting, and testing complex moveable bridges.***
07/2021	**Walt Whitman Bridge –** BDI conducted cable force testing on select suspender cables of the Walt Whitman Bridge between New Jersey and Pennsylvania. The cable tension forces derived from testing were provided to the client for use in assessment of the structure's main cables. Mr. Sullivan conducted the cable force testing, evaluated the results to calculate cable forces, and documented procedures and findings for each of the tested suspender cables, further exemplifying his expertise in the inspection and evaluation of cable-stayed bridges.
12/2019 – 04/2020	**Pulaski Skyway (Pier 76) –** BDI performed inspection and structural health monitoring on a section of the Pulaski Skyway steel deck truss during replacement of the reinforced concrete bridge piers to assess the performance of the truss members and rocker bearings during jacking, throughout repairs, and upon re-seating. Mr. Sullivan was the site lead for BDI's inspection and monitoring system installation and provided engineering support to the client during jacking/re-seating operations. Mr. Sullivan drafted monthly inspection and monitoring reports to provide updates of structural performance throughout the jacking duration ***showcasing his ability to report inspection and monitoring findings on truss bridges***.
09/2016-02/2019	**TAMS Bridges and Noise Walls** – Mr. Sullivan performed routine condition inspections of numerous bridges and noise walls along the I-495 corridor between Maryland and Virginia. The inspections included identifying and quantifying structural defects in steel and concrete elements in accordance with NBIS and client standards. Mr. Sullivan also drafted inspection reports for submission to the client under the supervision of a professional engineer.
09/2016-02/2019	**Various MDTA and MDSHA Bridges** – Mr. Sullivan performed routine and fracture-critical condition inspections of numerous bridges and culverts throughout Maryland, identifying and quantifying structural defects in steel, timber, concrete bridge elements in accordance with NBIS and client standards. He documented all observed defects and provided repair recommendations in inspection reports provided to the client under the supervision of a professional engineer. Reporting requirements also occasionally included formal letters of concern for critical defects impacting structural adequacy and/or public safety, fracture-critical inspection plans based on identified fatigue-prone details. Mr. Sullivan also inspected bridges throughout Maryland for compliance with 33 CFR Part 118 regulations for bridge lighting, ***including fixed bridges, swing bridges, single-open drawbridges, and bascule bridges.***
03/2017-11/2017	**Millard E. Tydings Memorial Bridge** – Mr. Sullivan served as a team member for routine condition inspection of a mile-long steel truss bridge carrying I-95 over the Susquehanna River in Maryland. The inspection included documenting all structural defects in accordance with NBIS and MDTA standards, and drafting repair recommendations for inclusion in an inspection report to the client under the supervision of a professional engineer. During this time, Mr. Sullivan also performed an emergency inspection of structure focused on investigating sensitive areas to verify structural integrity after a seismic event.

Firm employed by **Bridge Diagnostics Inc.**				
Name	Jordan F Locke		Years of relevant experience with this employer	2
Title	Rope Access Supervisor (Level 3)		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 4 (b), 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/19-current	**General Experience -** Mr. Locke has worked with rope access techniques for inspection in various environments after getting his SPRAT Level 1 in August 2019. He started as an assistant for rope access inspections on high-rise buildings in San Francisco CA and in the wind tunnels at the NASA Ames Research Center in Mountain View CA. Mr. Locke has also worked as an assistant with NDE methods including but not limited to PT, UT, PA, and CR, in petrochemical facilities and wind energy sites throughout the United States. ***Mr. Locke has the following certifications: SPRAT Level 3, NHI – 130055, NHI – 130078.***
02/22-current	**Rope Access Supervisor and NHI Certified Bridge Inspector -** Mr. Locke started working with BDI in 2022 after taking the NHI 13055 class and certifying to SPRAT Level 3. In this capacity of rope access supervisor over the past two years he has successfully planned and supervised the safety of many of BDI's rope access field projects involving inspection, testing, and monitoring on bridges and other hydraulic structures such as dams, tainter gates, spillways, and conveyances. In many of these field projects where the agreed upon safety and rescue considerations permit it, he will simultaneously work as a team member responsible for field instrumentation and operational testing and reporting. ***He is also a part of BDI's bridge inspection program, having received his certifications from NHI for both fracture critical and routine inspection techniques.*** This program will be a key factor in our ability to perform inspections for DOTD.
12/22	**Structural Health Monitoring System Installation on the Bronx Whitestone Bridge in Queens, New York -** ***Mr. Locke planned and supervised the rope access systems*** as part of a 5-person team installing instrumentation near and below deck level on the bridge towers. He set up the rigging so that the team could perform their work over and next to the outer lane without any danger of exposure to vehicle traffic and used a releasable rope system capable of hauling or lowering a team member to deck level in an emergency rescue scenario.
01/23	**Structural Health Monitoring System Installation on the Salmon Bay Bridge in Seattle, Washington -** Mr. Locke planned and supervised the rope access systems as part of a 3-person team installing instrumentation near the counterweight of this single-leaf bascule bridge. He set up the rigging so that work could be performed safely with the bridge in both open and closed positions and with or without active rail traffic below. He set up the rescue rigging kit that was stored in the work area in case of emergency with ropes long enough for picking and lowering a team member to deck level. He also worked as a team member responsible for field instrumentation and operational testing and reporting.
02/23-03/23	**Structural Health Monitoring System Removal on the Pearl Harbor Memorial Bridge, in New Haven, Connecticut -** Mr. Locke planned and supervised the rope access systems as part of a 5 person team removing instrumentation on the towers and cables of this extradosed bridge. He used a directional deviation system wrapped around the towers securing the 200' ropes to

	keep movements controlled in high winds and reduced stability due to ice. The ropes were set up to reach the water level in case of an emergency rescue scenario where the team member would be picked and lowered down to the on-site rescue boat.
03/23-04/23	**Structural Health Monitoring System Installation on the Burlington-Bristol Bridge in Burlington, New Jersey -** Mr. Locke planned and supervised the rope access systems as part of a 5-person team installing instrumentation above and at/below deck level on this truss bridge with a lift span. He set up the overhead rope systems so that they could be used to haul a below deck a team member to the deck as well as lower a team member down to the deck from the structure. He made the systems retrievable from the deck level to avoid climbing the structure without an emergency rescue system present. As the work was performed over a lane closure, the ropes were also secured from below to prevent any movement into vehicle traffic. He also worked as a team member responsible for field instrumentation and operational testing and reporting.
04/23-05/23	**Structural Health Monitoring System Installation on the Tacony-Palmyra Bridge in Philadelphia, Pennsylvania -** Mr. Locke planned and supervised the rope access systems as part of a 4-person team installing instrumentation both from the top of the steel tied-arch and below deck level. The work above the deck was performed during live traffic considering that in an emergency rescue scenario, the releasable rope system could be used to lower a team member to deck level after bridge authority and highway patrol stopped traffic. The same type of releasable rope system was used underneath the deck with a rescue boat present below.
06/23	**Cable Tension Testing on the Bear River Siphon Bridge in Auburn, California** - Mr. Locke planned and supervised the rope access systems as part of a 2-person team performing cable tension testing on this remote hike-in suspension bridge carrying 200’ of water pipeline. He set up the rope system so that either team member could pick off and lower the other from the tower to the ground in case of emergency. He also worked as a team member responsible for field instrumentation and operational testing and reporting.

Firm employed by **Bridge Diagnostics, Inc. (BDI)**					
Name	Ricky Morgan		Years of relevant experience with this employer	6	
Title	Steel NDT Division Manager		Years of relevant experience with other employer(s)	32	
Degree(s) / Years / Specialization			B.S. Political Science/Sociology, Purdue University, 1983		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Nondestructive Testing Inspector | **Meets MPR 7**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
1993 - Present	***Ricky L. Morgan, ASNT Fellow, MInstNDT, ASNT NDT Level III, AWS CWI, ICC SSW) has over 32 years of inspection and NDT experience.*** He is the Steel NDT Division Manager at BDI. He is a Certified Welding Inspector with endorsements in structural drawings and high strength bolts through the American Welding Society and was a Certified High Strength Bolting and Structural Steel Inspector through the International Code Council in the past. Morgan is a Fellow of ASNT, as well as a past Chairperson of the Board of Directors. Currently he is a technical reviewer for The NDT Technician and member of the Technician Advisory Committee, vice chair/ secretary for the Ultrasonic Committee, and past chair and current member of the Ground Penetrating Radar Committee. He has been an instructor of ultrasonic classes at Don Bosco Technical Institute and sits on the Student Advisory Board for the Material Science Department. He is currently on the Board of Directors for AATA (American Aerospace Technical Academy), a not-for-profit organization providing NDT training to veterans and underrepresented individuals in NDT.
2020	**Advanced Ultrasonic Testing of Welds** - BDI performed research to identify and determine best practices for steel weld inspection utilizing advanced ultrasonic testing (UT) methods such as phased array ultrasonic testing (PAUT) and total focus method / full matrix capture (TFM/FMC). Mr. Morgan performed calibration and modeling for the field-testing methodologies.
2020	**NDE Investigation of Wheel Track Anchor Bolts** - Mr. Morgan served as the project manager for this project in which BDI performed a ***nondestructive evaluation (NDE) of the wheel track anchor bolts which support the double-swing assembly*** on the George P. Coleman Bridge in Yorktown, VA. The testing methodology consisted of performing ultrasonic testing of each anchor bolt by an ASNT III UT inspector to identify, locate, and measure any cracks in the bolts. Split between an inner and outer ring configuration, a total of 88 anchor bolts were tested on both Pier 1S and Pier 1N of the bridge for an overall total of 176 anchor bolts having been tested. ***Project relevance is NDT-E for moveable structures***.
2019	**Testing of In-Service Bridges using Automated Ultrasonic Testing Methods** - Mr. Morgan served as project manager on this project that included the design and fabrication of automated ultrasonic testing (UT) apparatus for the testing of in-service steel bridges. Advanced UT methods are utilized including Phased Array Ultrasonic Testing (PAUT) and Time of Flight Diffraction (TOFD) to determine best practices for weld flaw identification and measurement. These best practices are paired with automated testing methods to improve the efficiency of UT on in-service steel bridges.

Firm employed by **Engineering Operations, LLC**					
Name	Samuel Williams, PE		Years of relevant experience with this employer	2	
Title	Team Leader/ SPRAT Rope Access Level I		Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization			MEng / 2010 / Ocean Engineering BS / 2003 / Civil Engineering		
Active registration number / state / expiration date			0036045 / Louisiana / 3/31/2025		
Year registered	2011	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			eO Project Manager and NBIS Underwater Team Leader | **Meets MPR 4 (a), 5, 8, 9, 10 – meets 5-year minimum requirement**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/19-01/20	**LADOTD In-Depth Bridge Inspection, St. Francisville and Baton Rouge, Louisiana** Mr. Williams was an assistant project manager/inspector for the inspection of the Audubon Bridge in St. Francisville, Louisiana. The Audubon Bridge is a cable-stayed bridge with a main span length of 1,583-ft. Field work consisted of descending along the cables using rope access techniques to inspect the cables for any signs of deterioration. Additionally, Mr. Williams served as the assistant project manager/inspector for the inspection of the Horace Wilkinson Bridge located in Baton Rouge, Louisiana. The Wilkinson Bridge is a cantilever truss/through truss bridge with a main span length of 1,235-ft. Field work consisted of climbing the truss members using SPRAT rope access techniques to inspect the steel members for any signs of deterioration. Both inspections were completed in accordance with NBIS and the AASHTO Manual for Bridge Element Inspection.
01/20-01/21	**LADOTD In-Depth Bridge Inspection, Boyce and Simmesport, Louisiana** Mr. Williams was an assistant project manager and inspector for the inspection of a post-tensioned segmental concrete box girder bridge located in Boyce, Louisiana, and a steel through-truss bridge located in Simmesport, Louisiana. Both inspections were completed in accordance with NBIS and the AASHTO Manual for Bridge Element Inspection. Field work included inspection of the interior of the concrete box girder, requiring confined space access and inspection of the truss floor system requiring use of an Under-Bridge Inspection (UBI) truck. Mr. Williams was also responsible for documenting bridge condition states and report preparation for both bridges.
08/20-Ongoing	**Louisiana Department of Transportation & Development: Statewide Underwater Bridge Inspections** Mr. Williams serves as the deputy project manager and a team leader for this recurring contract to perform underwater bridge inspections throughout Louisiana in accordance with NBIS and AASHTO. eO served as a sub-consultant role on this contract with Moffatt & Nichol as the prime. The scope included Level I, II, and III inspections of underwater bridge elements, georeferenced soundings of the channel bottom, and underwater acoustic imaging (UAI) at major crossing and where dive conditions were hazardous. Mr. Williams was responsible for pre-inspection planning, scheduling, field work, inspection reports, and overall quality standards.

04/20-Ongoing	**Louisiana Department of Transportation IDIQ Contract for Sign Inspection** Mr. Williams currently serves as a team leader on this contract. eO is currently performing in a heavily involved sub-consultant role on the Statewide Louisiana (LaDOTD) Sign Inspection Contract. Most of these structures are four-chord cantilever and overhead sign support structures, which eO inspects utilizing SPRAT rope access climbing techniques. Almost all signs in this region were found to have several, and many had numerous, cracked and/or fractured chord members, anchor bots, and/or loose moment connections, which often required our team leaders to assess structural stability on-site.
10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** Mr. Williams is a team leader for eOs' prime role on the Colorado Department of Transportation Off-System Bridge Inspection contract. Although this project was originally scoped for off-system structures only, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. This contract entails inspecting the local agency (city and county) owned bridges throughout the state of Colorado in rural and suburban areas. Task orders include routine, in-depth, NSTM (fracture critical) inspections, load ratings, scour analyses, and testing of CDOT's upcoming asset management platform SIMSA. Throughout the state, a variety of steel, concrete, and timber bridges were encountered with specialized access and/or NDT equipment needed.
08/22-Ongoing	**Wyoming Department of Transportation – On & Off-System Bridge Inspections** Mr. Williams is a team lead on eO's primary inspection consultant role to perform routine and non-redundant steel tension (NSTM) inspections throughout the 23 counties statewide. Inspections of each bridge element are performed with visual and in-depth inspection methods. Both on-system and off-system structures were included in this contract which provided for a large variety in structure type, structure size, types of deficiencies, traffic volumes, and access requirements.
06/18-Ongoing	**Florida Department of Transportation: District Three - State Underwater Bridge Inspection Contract** Mr. Williams was a project manager and dive supervisor on this project and oversaw the inspections of structures district wide or FDOT District Three, which include both routine and underwater inspections. These inspections include routine, topside, culverts, substructures, fender systems, embankment bulkhead/retaining walls, and channel bottoms. This contract requires the preparation of detailed engineering reports with drawings and underwater photographs documenting existing conditions at each bridge. These inspections are based on the NBIS requirements and are documented in accordance with FDOT and FHWA guidelines. This contract includes snooper and steel box girder inspections, commercial scuba diving and SSA (Surface Supplied Air) diving methods are used on this project.

Firm employed by **Engineering Operations, LLC**					
Name	Benjamin Kenney, PE			Years of relevant experience with this employer	7
Title	Team Leader/ SPRAT Rope Access Level I			Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			BS / 2007 / Architectural Engineering		
Active registration number / state / expiration date			0041531/ Louisiana / 9/30/2025		
Year registered	2017	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector and NBIS Underwater Team Leader | **Meets MPR 4 (a), 5, 8, 9**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/20-Ongoing	**Louisiana Department of Transportation & Development: Statewide Underwater Bridge Inspections** Mr. Kenney is the project principal and oversees heavy dive operations on the Mississippi River for eO's recurring sub-consultant role on this contract with Moffatt & Nichol as the prime. eO personnel perform as both dive supervisors and dive inspectors, providing the experience required to perform successful dive operations and ensure the safety of the inspection team. High flow and limited visibility are routinely encountered as the team safely performs Level I, II, and III underwater dive inspections. Inspections are augmented with SONAR technology in accordance with the National Bridge Inspection Standards (NBIS). Additionally, Mr. Kenney was part of a multi-disciplinary team tasked with re-writing LaDOTD's bridge inspection manual. The manual involves all aspects of bridge inspection for the state of Louisiana and addresses both federal and state requirements.
10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** eO is the prime consultant for this Colorado Department of Transportation (CDOT) Off-System Bridge Inspection contract, and Mr. Kenney was the original project manager before transitioning that role to Mr. Richardson. Although this project was originally scoped for off-system structures only, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. This contract entails inspecting the local agency (city and county) owned bridges throughout the state of Colorado in rural and suburban areas. Task orders include routine, in-depth, NSTM (fracture critical) inspections, load ratings, scour analyses, and testing of CDOT's upcoming asset management platform SIMSA. Throughout the state, a variety of steel, concrete, and timber bridges were encountered with specialized access and/or NDT equipment needed. Our team also performed hundreds of load ratings throughout the inventory. eO assisted with CDOT's transition to the new FHWA bridge inspection standards - SNBI (Standards for National Bridge Inspection) while helping to implement their new bridge management software to replace BrM. As the original project manager, Mr. Kenney managed, organized, and sometime led diverse inspections on a variety of structure types ranging from small timber structures to PT box girders and fracture critical elements.

09/18-Ongoing	**Colorado Department of Transportation – Central 70 Expansion Project** Mr. Kenney was the project principal and original project manager for eO's prime role on the Central 70 Expansion Project. Our team performed bridge, sign, and tunnel inspections throughout the busy corridor on I-70, just east of downtown Denver. The most unique aspect of this project was the newly constructed 1000-ft. complex tunnel which includes state of the art mechanical, electrical, fire, and life safety systems in addition to the typical structural and civil components. Mr. Kenney was responsible for the initial inspection of this asset and worked closely with subcontractors that were building the tunnel to combine tunnel commissioning activities with inspection requirements and system condition assessment in accordance with the SNTI, NTIS, TOMIE, and Colorado's tunnel inspection manual (C-TIIM). The corridor is also home to some of Colorado's busiest bridges with over 200,000 ADT. Over the last year, Mr. Kenney transitioned into the principal role and coached Remy Stern into becoming the new project manager for this project. After taking over as project principal, Mr. Kenney worked closely with Mr. Stern to support successful inspection operations within the Central 70 corridor, ensuring the safe inspection of all bridge, sign, and tunnel assets within the C70 purview.
08/22- Ongoing	**Wyoming Department of Transportation – On & Off-System Bridge Inspections** Mr. Kenney served as project manager on this contract. Both on-system and off-system structures were included in this contract which provided for a large variety in structure type, structure size, types of deficiencies, traffic volumes, and access requirements. As the project manager for this contract, Mr. Kenney oversaw safe and strategic inspections throughout the state of Wyoming which included inspections over busy interstates as well as low traffic county roads with more antiquated structures. He also administered the QAQC process specifically focusing on issues that could affect serviceability, and ensured FHWA metrics were met for WYDOT. He worked closely with project principal, Taylor White, and the deputy project manager to ensure teams were appropriately staffed and managed.
02/22-Ongoing	**Florida's I-4 Ultimate Improvement Project** Mr. Kenney is the project manager for this contract. eO was selected as the primary inspection consultant to perform routine, NSTM (fracture critical), and underwater inspections throughout the 21-mile stretch of Central Florida's most vital transportation artery. The team is responsible for the structural inspection of every structure within the corridor, which includes complex and routine bridges, overhead signs, traffic signals, and high mast light towers. eO inspectors perform thorough inspections, produce detailed findings reports, update structure inventory details, make repair recommendations, and produce Feasible Action Review Committee (FARC) agendas for FDOT District Five.
08/23-Ongoing	**Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)** Mr. Kenney serves as is a team leader for eOs' sub-consultant role on this project, which includes both routine and underwater inspections throughout the Florida Turnpike's North Corridor (Turnpike Mainline, Beachline Expressway, Southern Connector Extension, Veterans Expressway, Suncoast Parkway, Polk Parkway, Western Beltway, and the I-4 Connector). Many structure types are included in this contract, including bridges, signs, LNQCs, HMLT, and several confined space inspections. Our team is responsible for performing thorough inspections, producing detailed findings reports, updating structure inventory details, making repair recommendations, and producing Feasible Action Review Committee (FARC) agendas for the Turnpike Enterprise. Mr. White was also a team leader on this contract for several cycles prior to joining eO.

Firm employed by **Engineering Operations, LLC**					
Name	Taylor White, PE		Years of relevant experience with this employer	6	
Title	Team Leader		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization			BS / 2010 / Civil Engineering		
Active registration number / state / expiration date			0045154 / Louisiana / 3/31/2025		
Year registered	2016	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector and NBIS Underwater Team Leader | **Meets MPR 4 (a), 5, 8, 9**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/20-Ongoing	**Louisiana Department of Transportation: Statewide Underwater Bridge Inspections** Mr. White is the project manager on eO's sub-consultant role for this recurring contract with Moffatt & Nichol as the prime. eO personnel perform as both dive supervisors and dive inspectors, providing the experience required to perform successful dive operations in the Mississippi River and ensure the safety of the inspection team. High flow and limited visibility conditions are routinely encountered as the team safely performs Level I, II, and III underwater dive inspections. Inspections are augmented with sonar technology in accordance with the National Bridge Inspection Standards (NBIS). As a project manager, Mr. White is responsible for ensuring the safety of divers while performing NBIS inspections that include tidal and riverine conditions with varying levels of current, minimal visibility, and significant debris buildup.
08/23-Ongoing	**Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)** Mr. White is the engineer-of-record and a team leader for eOs' sub-consultant role on this project, which includes both routine and underwater inspections throughout the Florida Turnpike's North Corridor (Turnpike Mainline, Beachline Expressway, Southern Connector Extension, Veterans Expressway, Suncoast Parkway, Polk Parkway, Western Beltway, and the I-4 Connector). Many structure types are included in this contract, including bridges, signs, LNQCs, HMLT, and several confined space inspections. Our team is responsible for performing thorough inspections, producing detailed findings reports, updating structure inventory details, making repair recommendations, and producing Feasible Action Review Committee (FARC) agendas for the Turnpike Enterprise. Mr. White was also a team leader on this contract for several cycles prior to joining eO.
02/22-Ongoing	**Florida's I-4 Ultimate Improvement Project** Mr. White is project principal for this contract. eO was selected as the primary inspection consultant to perform routine, NSTM (fracture critical), and underwater inspections throughout the 21-mile stretch of Central Florida's most vital transportation artery. The team is responsible for the structural inspection of every structure within the corridor, which includes complex and routine bridges, overhead signs, traffic signals, and high mast light towers. eO inspectors perform thorough inspections, produce detailed findings reports, update structure inventory details, make repair recommendations, and produce Feasible Action Review Committee (FARC) agendas for FDOT District Five.

10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** Mr. White served as the project principal for this contract. Although this project was originally scoped for off-system structures only, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. In addition to contracting responsibilities, Mr. White performed QAQC reviews for a percentage of all structures, with a focus on poor rated bridges. eO is the prime consultant for this project performing routine, in-depth, and NSTM (fracture critical) inspections including through-girder, cable-stayed, arches, and through trusses throughout the northern region of the state. Mr. White was also involved with the safety and access considerations for these structures, which included the use of SPRAT certified inspectors using rope access and/or bucket trucks to gain hands-on access to NSTM members. As the project developed and inspectors began to move into managerial positions, Mr. White helped transition Benjamin Kenney from project manager into the project principal role with Aaron Richardson stepping into the project manager role.
10/20-Ongoing	**Louisiana Department of Transportation IDIQ Contract for Sign Inspection** Mr. White serves as the project manager on eO's contract performing in a heavily involved sub-consultant role on the Statewide Louisiana (LaDOTD) Sign Inspection Contract. Most of these structures are four-chord cantilever and overhead sign support structures, which eO inspects utilizing SPRAT rope access climbing techniques. Almost all signs in this region were found to have several, and many had numerous, cracked and/or fractured chord members, anchor bots, and/or loose moment connections, which often required our team leaders to assess structural stability on-site.
08/19-Ongoing	**Florida Department of Transportation: District Five - Local Government Bridge Inspections** Mr. White serves as the engineer-of-record and a team leader on routine, NSTM bridge, and culvert inspections. This contract includes routine and underwater inspections throughout the district that are owned and maintained by local government agencies. This project requires the use of commercial SCUBA diving or SSA methods and include both bridges and culverts. This contract also includes a hurricane emergency response element, which involves post storm evaluations for both structural damage and scour.
08/22-Ongoing	**Florida Department of Transportation: District Three - State Underwater Bridge Inspection Contract** Mr. White was the engineer-of-record, team leader, and dive supervisor on this project and oversaw the inspections of structures district wide or FDOT District Three, which include both routine and underwater inspections. These inspections include routine, topside, culverts, substructures, fender systems, embankment bulkhead/retaining walls, and channel bottoms. This contract requires the preparation of detailed engineering reports with drawings and underwater photographs documenting existing conditions at each bridge. These inspections are based on the NBIS requirements and are documented in accordance with FDOT and FHWA guidelines. This contract includes snooper and steel box girder inspections, commercial scuba diving and SSA (Surface Supplied Air) diving methods are used on this project.

Firm employed by **Engineering Operations, LLC**					
Name	Aaron Richardson, PE		Years of relevant experience with this employer	5	
Title	Team Leader/ SPRAT Rope Access Level I		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering, Structural Emphasis		
Active registration number / state / expiration date			90914 / Florida / 2/28/25		
Year registered	2020	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** Mr. Richardson is the project manager for eOs' prime role on the Colorado Department of Transportation Off-System Bridge Inspection contract. Although this project was originally scoped for off-system structures only, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. This contract entails inspecting the local agency (city and county) owned bridges throughout the state of Colorado in rural and suburban areas. Task orders include routine, in-depth, NSTM (fracture critical) inspections, load ratings, scour analyses, and testing of CDOT's upcoming asset management platform SIMSA. Throughout the state, a variety of steel, concrete, and timber bridges were encountered with specialized access and/or NDT equipment needed. Mr. Richardson ensured qualified and experienced personnel and the necessary equipment were on site for each inspection and was involved in the review process of every report. In addition to safety for his inspectors and the traveling public, Mr. Richardson's primary focus was in providing CDOT with a quality and consistent product to help manage funding and efficient retirement of the states' bridges.
09/18-Ongoing	**Colorado Department of Transportation – Central 70 Expansion Project** Mr. Richardson was a team leader for eO's prime role on this contract. The project revamped a ten-mile stretch of roadway that sees high average daily traffic between Denver and the Denver International Airport. The team was responsible for initial, routine, NSTM (fracture critical), and special/damage inspections within the corridor. Inspections on this project required extensive pre-planning to develop MOT plans and facilitate a smooth and safe inspection process while minimizing impact to traffic. Unique to this project is the center piece of the corridor which is a 1000-ft. complex tunnel. eO was heavily involved in the commissioning process for all the mechanical, electrical, fire, and life safety systems, collecting data and witnessing testing to piece together the initial inspection report for this structure in accordance with FHWA and CDOT standards.
08/20-Ongoing	**Louisiana Department of Transportation & Development: Statewide Underwater Bridge Inspections** Mr. Richardson serves as an inspection team leader on multiple bridge inspection trips for eO's a sub-consultant role for this recurring contract with Moffatt & Nichol as the prime. High flow and limited visibility conditions are routinely encountered as the dive team safely performs Level I, II, and III underwater inspections. Inspections are augmented with sonar technology in accordance with the National Bridge Inspection Standards (NBIS). In the field, Mr. Richardson integrates seamlessly into teams comprised of both eO and M&N inspectors. He is able to easily adapt to the various environmental conditions encountered throughout the state, providing the experience required to perform underwater inspection operations in the Mississippi River. In addition to his contributions in the field, Mr. Richardson's load rating experience and keen attention to detail make him a valuable

	asset in the reporting and QAQC process.
10/20-Ongoing	**Louisiana Department of Transportation IDIQ Contract for Sign Inspection** Mr. Richardson serves as a team leader for eO's current LaDOTD Sign Inspection contract. eO performs in a heavily involved sub-consultant role throughout this contract. Most of these structures are four-chord cantilever and overhead sign support structures, which eO inspects utilizing SPRAT rope access climbing techniques. Almost all signs in this region were found to have several, and many had numerous, cracked and/or fractured chord members, anchor bots, and/or loose moment connections, which often required our team leaders to assess structural stability on-site.
06/19-Ongoing	**Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)** Mr. Richardson was a team leader for eOs' sub-consultant role on this project, which included both routine and underwater inspections throughout the Florida Turnpike's North Corridor (Turnpike Mainline, Beachline Expressway, Southern Connector Extension, Veterans Expressway, Suncoast Parkway, Polk Parkway, Western Beltway and the I-4 Connector). Many structure types were included in this contract, including bridges, signs, LNQCs, HMLT, and several confined space inspections. Our team was responsible for performing thorough inspections, producing detailed findings reports, updating structure inventory details, making repair recommendations, and producing Feasible Action Review Committee (FARC) agendas for the Turnpike Enterprise.
08/19-Ongoing	**Florida Department of Transportation: District Five - Local Government Bridge Inspections** Mr. Richardson serves as a team leader on routine, NSTM bridge, and culvert inspections. This contract includes routine and underwater inspections throughout the district that are owned and maintained by local government agencies. This project requires the use of commercial SCUBA diving or SSA methods and include both bridges and culverts. This contract also includes a hurricane emergency response element, which involves post storm evaluations for both structural damage and scour.

Firm employed by **Engineering Operations, LLC**					
Name	Remy Stern			Years of relevant experience with this employer	6
Title	Team Leader/ SPRAT Rope Access Level I			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			MS / BS / 2016 / Civil Engineering		
Active registration number / state / expiration date			18375 / Wyoming / 12/31/24		
Year registered	2021	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/18-Ongoing	**Colorado Department of Transportation – Central 70 Expansion Project** Mr. Stern is a deputy project manager on eO's prime consultant role for this project includes the inspection of bridges, signs, and tunnels within the I-70 corridor. The project revamped a ten-mile stretch of roadway that sees high average daily traffic between Denver and the Denver International Airport. As a direct partner with the maintenance contractor for the corridor, eO's role is inherently similar to a tunnel inspection consultant coordinating with state maintenance employees. Access, MOT, subcontractor coordination, LOTO, CTMC coordination, development of inspection procedures, and maintenance recommendations are executed together with the maintenance contractor and partnering subcontractors in order to facilitate smooth, safe, and effective tunnel inspections. The team was responsible for initial, routine, NSTM (fracture critical), and special/damage inspections within the corridor. Inspections on this project required extensive pre-planning to develop MOT plans and facilitate a smooth and safe inspection process while minimizing impact to traffic. Unique to this project is the center piece of the corridor which is a 1000-ft. complex tunnel. eO was heavily involved in the commissioning process for all the mechanical, electrical, fire, and life safety systems, collecting data and witnessing testing to piece together the initial inspection report for this structure in accordance with FHWA and CDOT standards.
08/22-Ongoing	**Wyoming Department of Transportation – On & Off-System Bridge Inspections** Mr. Stern is a deputy project manager and team lead on eO's primary inspection consultant role to perform routine and nonredundant steel tension member (NSTM) inspections throughout the 23 counties statewide. Inspections of each bridge element are performed with visual and in-depth inspection methods. Both on-system and off-system structures were included in this contract which provided for a large variety in structure type, structure size, types of deficiencies, traffic volumes, and access requirements.
10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** Mr. Stern is a team leader and report manager on eOs' primary inspection consultant role for all off-system bridges and culverts throughout the northern region of Colorado. The structures include a variety of steel, concrete, and timber components with routine NBIS, initial, special, in-depth, and NSTM (fracture critical) bridge inspections. Detailed inspection reports, including NBI and element level data and coding, recommendations, sketches, and streambed profiles are prepared for each inspection. In addition, load ratings are performed for all initial inventory and structures are re-rated when changes in structural condition, geometry, or increases in asphalt are found.

06/21-12/21	**UXU Ranch Inspection** Mr. Stern was a team leader and report manager on eO's prime consultant role for this project. eO performed a full-service initial Nonredundant Steel Tension Member inspection via SPRAT for a 150ft single span through truss. Constructed in 1920s and moved in 1960s, truss members were torch cut and re-welded. Inspectors identified locations where the truss was spliced back together with welds and splice plates, creating a Category E fatigue prone detail. eO created drawings and details of the truss based on field measurements and performed a load rating of all elements.
06/19-Ongoing	**Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)** Mr. Stern is an inspector and report technician for eOs' sub-consultant role on this project, which included both routine and underwater inspections throughout the Florida Turnpike's North Corridor (Turnpike Mainline, Beachline Expressway, Southern Connector Extension, Veterans Expressway, Suncoast Parkway, Polk Parkway, Western Beltway and the I-4 Connector). Many structure types were included in this contract, including bridges, signs, LNQCs, HMLT, and several confined space inspections. Our team was responsible for performing thorough inspections, producing detailed findings reports, updating structure inventory details, making repair recommendations, and producing Feasible Action Review Committee (FARC) agendas for the Turnpike Enterprise.
04/20-Ongoing	**Louisiana Department of Transportation IDIQ Contract for Sign Inspection** Mr. Stern serves as a team leader for eO's current LaDOTD Sign Inspection contract. eO performs in a heavily involved sub-consultant role throughout this contract. Most of these structures are four-chord cantilever and overhead sign support structures, which eO inspects utilizing SPRAT rope access climbing techniques. Almost all signs in this region were found to have several, and many had numerous, cracked and/or fractured chord members, anchor bots, and/or loose moment connections, which often required our team leaders to assess structural stability on-site.

Firm employed by **Engineering Operations, LLC**				
Name	Nate Proffitt, EIT		Years of relevant experience with this employer	2
Title	Team Lead / SPRAT Rope Access Level I		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization				
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/20-Ongoing	**Louisiana Department of Transportation IDIQ Contract for Sign Inspection** Mr. Proffitt serves as a team leader for eO's current LaDOTD Sign Inspection contract. eO performs in a heavily involved sub-consultant role throughout this contract. Most of these structures are four-chord cantilever and overhead sign support structures, which eO inspects utilizing SPRAT rope access climbing techniques. Almost all signs in this region were found to have several, and many had numerous, cracked and/or fractured chord members, anchor bots, and/or loose moment connections, which often required our team leaders to assess structural stability on-site.
10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspections** Mr. Proffitt served as a team leader for eO on this project. Although this project was originally scoped only for off-system structures, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. This contract entails inspecting the local agency (city and county) owned bridges throughout the state of Colorado in rural and suburban areas. Task orders include routine, in-depth, NSTM (fracture critical) inspections, load ratings, scour analyses, and testing of CDOT's upcoming asset management platform SIMSA. Throughout the state, a variety of steel, concrete, and timber bridges were encountered, with specialized access and/or NDT equipment needed.
09/18-Ongoing	**Colorado Department of Transportation – Central 70 Expansion Project** Mr. Proffitt served as a team leader and report technician for eO on this contract. The project revamped a ten-mile stretch of roadway that sees high average daily traffic between Denver and the Denver International Airport. As a direct partner with the maintenance contractor for the corridor, eO's role is inherently similar to a tunnel inspection consultant coordinating with state maintenance employees. Access, MOT, subcontractor coordination, LOTO, CTMC coordination, development of inspection procedures, and maintenance recommendations are executed together with the maintenance contractor and partnering subcontractors to facilitate smooth, safe, and effective tunnel inspections. The team was responsible for initial, routine, NSTM (fracture critical), and special/damage inspections within the corridor. Inspections on this project required extensive pre-planning to develop MOT plans and facilitate a smooth and safe inspection process while minimizing impact to traffic. Unique to this project is the center piece of the corridor which is a 1000-ft. complex tunnel. eO was heavily involved in the commissioning process for all the mechanical, electrical, fire, and life safety systems, collecting data and witnessing testing to piece together the initial inspection report for this structure in accordance with FHWA and CDOT standards.

08/22-Ongoing	**Wyoming Department of Transportation – On & Off-System Bridge Inspections** Mr. Proffitt is a team lead/report technician for eO's prime consultant role on this contract. On this project, eO performs routine and nonredundant steel tension member inspections throughout the 23 counties statewide. Due to Wyoming's problematic bridge decks, our team leaders would typically spend a significant amount of time in the field mapping topside and underside deck defects, particularly areas of tight map cracking. Inspections of each bridge element are performed with visual and in-depth inspection methods. Both on-system and off-system structures were included in this contract which provided for a large variety in structure type, structure size, types of deficiencies, traffic volumes, and access requirements.
06/21-12/21	**UXU Ranch Inspection** Mr. Proffitt was an inspector and report manager on eO's prime consultant role for this project. eO performed a full-service initial Nonredundant Steel Tension Member inspection via SPRAT for a 150-ft. single span through truss. Constructed in 1920s and moved in 1960s, truss members were torch cut and re-welded. Inspectors identified locations where the truss was spliced back together with welds and splice plates, creating a Category E fatigue prone detail. eO created drawings and details of the truss based on field measurements and performed a load rating of all elements.

Firm employed by **Engineering Operations, LLC**				
Name	Jonathan Ivey		Years of relevant experience with this employer	1
Title	Team Leader / SPRAT Rope Access Level II		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/21-Ongoing	**Louisiana Department of Transportation: Statewide Underwater Bridge Inspections** Mr. Ivey is a team leader and ADCI commercial diver supervisor for eOs' sub-consultant role on this project, which includes underwater inspections throughout the state. The eO team works directly with the prime consultant to perform detailed underwater inspections, hydrographic surveys, and acoustic imaging. Both commercial SCUBA and Surface Supplied Air (SSA) diving methods are utilized to perform the inspections, and our teams work seamlessly together both in the field and in the office, to produce inspection findings reports that are based on the LaDOTD and FHWA guidelines.
03/15-Ongoing	**Florida Turnpike North - Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)** Mr. Ivey is a team leader and ADCI commercial diver for eOs' sub-consultant role on this project, which includes both routine and underwater inspections through the Florida Turnpike's North Corridor (Turnpike Mainline, Beachline Expressway, Southern Connector Extension, Veterans Expressway, Suncoast Parkway, Polk Parkway, Western Beltway, and the I-4 Connector). Many structure types are included in this contract, including bridges, signs, LNQCs, HMLT, and several confined space inspections. Our team is responsible for performing thorough inspections, producing detailed findings reports, updating structure inventory details, making repair recommendations, and producing Feasible Action Review Committee (FARC) agendas for the Turnpike.
02/22-Ongoing	**Florida's I-4 Ultimate Project** Mr. Ivey is a team leader for eOs' prime inspection consultant to perform routine, NSTM (fracture critical), and underwater inspections throughout the 21-mile stretch of Central Florida's most vital transportation artery. The team is responsible for the structural inspection of every structure within the corridor, which includes complex and routine bridges, overhead signs, traffic signals, and high mast light towers. The inspectors perform thorough inspections, produce detailed findings reports, update structure inventory details, make repair recommendations, and produce Feasible Action Review Committee (FARC) agendas for FDOT District Five.

10/19-Ongoing	**Colorado Department of Transportation – On & Off-System Bridge Inspection** Mr. Ivey is a team leader and SPRAT rope access technician for eO on this project. Although this project was originally scoped only for off-system structures, as a result of our success on this project our team began performing both on and off-system inspections statewide as a prime consultant for CDOT. This contract entails inspecting the local agency (city and county) owned bridges throughout the state of Colorado in rural and suburban areas. Task orders include routine, in-depth, NSTM (fracture critical) inspections, load ratings, scour analyses, and testing of CDOT's upcoming asset management platform SIMSA. Throughout the state, a variety of steel, concrete, and timber bridges were encountered, with specialized access and/or NDT equipment needed.
08/22-Ongoing	**Wyoming Department of Transportation- On & Off-System Bridge Inspection** Mr. Ivey is a team leader and SPRAT rope access technician on eO's Statewide On & Off System Bridge Inspection contract. Due to Wyoming's problematic bridge decks, our team leaders would typically spend a significant amount of time in the field mapping topside and underside deck defects, particularly areas of tight map cracking. On this project, eO performs routine and nonredundant steel tension member inspections throughout the 23 counties statewide. Due to Wyoming's problematic bridge decks, our team leaders would typically spend a significant amount of time in the field mapping topside and underside deck defects, particularly areas of tight map cracking. Inspections of each bridge element are performed with visual and in-depth inspection methods. Both on-system and off-system structures were included in this contract which provided for a large variety in structure type, structure size, types of deficiencies, traffic volumes, and access requirements
10/09-06/23	**Florida Department of Transportation: District Two - Area Wide Bridge Inspection** Mr. Ivey performed as a team leader and team member of a rope access team that inspected complex fracture critical structures throughout the district. These inspections include a wide variety of bridge types, including the Mathews (cantilever through truss), Hart (continuous through truss with suspended deck in the main span), Main Street (vertical lift truss), Myrtle Ave. (tied arch), Dames Point (cable stay) and Bridge of Lions (double leaf bascule). Mr. Ivey personally found severed strands on the cables on the Hart bridge in the suspended deck portion of the main span that prompted an in-depth inspection of all the cables.
10/09-Ongoing	**Florida Department of Transportation: District Five - Local Government Inspection and DW Bridge Inspection** Mr. Ivey performed as a team leader on routine, NSTM bridges, and culverts. This contract included routine and underwater inspections throughout the district that are owned and maintained by local government agencies. This project required the use of commercial SCUBA diving or SSA methods and include both bridges and culverts. This contract also included a hurricane emergency response element, which includes post storm evaluations for both structural damage and scour.
06/18-Ongoing	**Florida Department of Transportation: District Three - Local Government Bridge Inspection** Mr. Ivey served as the team leader on routine and complex inspections of unknown foundations and channel depths exceeding scour critical elevations and NSTM structures. He performed routine and underwater inspections throughout the district that are owned and maintained by local government agencies. Mr. Ivey also produced Prompt Corrective Action (PCA) letters for multiple structures. This project required the use of commercial SCUBA diving or SSA methods and included both bridges and culverts. This contract also included a hurricane emergency response element, which involved post storm evaluations for both structural damage and scour.

Firm employed by **Forte & Tablada, Inc.**				
Name	Bradley S. Holleman, P.E., P.L.S.		Years of relevant experience with this employer	3.5
Title	Senior Vice President, Survey/AMM		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			B.S. / 2009 / Civil Engineering with Minor in Land Surveying	
Active registration number / state / expiration date			PLS 5082 / LA / 9/30/2024; PE 47165 / LA/3/31/2025	
Year registered	2012 / 2022	Discipline	Land Surveyor / Civil Engineer	
Contract role(s) / brief description of responsibilities			Lead PLS | **Meets MPR 11**	

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
05/12 - 09/12	**H.009456 – Tchefuncte River Bridge, Tangipahoa Parish, LA** – Surveyor-in-Charge for the hydrographic survey, topographic survey and existing drainage map. This project was for a bridge replacement over the Tchefuncte River in Tangipahoa Parish. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
09/13-03/14	**H.002375 Amite River Bridge, French Settlement, LA** – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a new bridge over Amite River in French Settlement, Louisiana to the replace the existing swing bridge. A hydrographic survey was performed on the Smite River for this project. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
03/17-03/18	**H004987 US 190 Collins Blvd, Covington, LA** - Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
05/-10/22	**LA DOTD Underwater Acoustic Imaging, Statewide, LA** – Principal-in-Charge for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.
06/21 - Ongoing	**H.014219, H.014222, H.014228, H.014231 and H.014236** – Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05 (4400019336) - Principal-in-Charge for topographic surveying and right-of-way mapping services for 20 Bridge Sites.
01/21 – 03/22	**H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58 (4400017598)** – Principal-in-Charge providing topographic surveying services and right-of-way mapping services of 22 bridges in Louisiana.
05/12 - 09/12	**H.009456 – Tchefuncte River Bridge, Tangipahoa Parish, LA** – Surveyor-in-Charge for the hydrographic survey, topographic survey and existing drainage map. This project was for a bridge replacement over the Tchefuncte River in Tangipahoa Parish. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
05/21 – 12/22	**H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA (4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4)** – Principal-in-Charge for this project providing topographic survey and drainage mapping. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed Mobile LiDAR scanning services for much of the corridor as a means of obtaining topographic data without

	endangering surveyors. The Survey also included Multibeam Hydrographic survey of Lake Charles, and Terrestrial LiDAR scanning of bridge substructures. Mr. Holleman also served as Principal-in-Charge for the boundary surveys and title take-offs for the railroad realignment of this project.
01/18 – 04/20	**H.004100 I-10: LA 415 to Essen Lane -** Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. This Survey was part of a larger project that extended West to LA 415 and included a team of 4 Survey firms to complete the work on schedule.
04/20 – 11/20	**H.000688 US 11 Norfolk Southern RR Overpass, St. Tammany Parish, LA** – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad.
02/20 – 08/20	**H.010652 LA 73: US 61 (Airline) to Essen Lane, Baton Rouge, LA** – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish.
06/19 – 12/19	**H.011645 LA 3002 Access Management, Livingston Parish, LA** – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a median and turnarounds on LA 3002 in Livingston Parish.
05/18 –04/19	**H.012591 I-10 Paris Road Lake Pontchartrain, New Orleans, LA** – Surveyor-in-Charge for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East.
03/17 – 03/18	**H004987 US 190 Collins Blvd, Covington, LA** – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington.
06/16 – 02/17	**H.000263 Chef Menteur Pass Bridge** - Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass.
12/14 – 03/16	**H.011137 & H.011152 I-12 (LA 21 to LA 59), St. Tammany, LA** – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish.
06/15 – 12/15	**H.011224 US 190 Guardrail / Rutting Repair, Point Coupee Parish,** LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement guardrail along US 190 in Pointe Coupee Parish due to damage.
08/19-Ongoing	**H.011670- I-10/Loyola Interchange Improvements- Kenner, LA** - Surveyor-in-Charge/Principal-in-Charge providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required weekly data updates, to allow the Design team to begin working and stay on schedule. Due to the compressed timeline of the Survey, a total of 3 Survey firms were contracted to split up the workload, with Forte and Tablada, Inc. serving as Prime Surveyor, being responsible for management and QA/QC of all Survey work. Mr. Holleman originally managed SJB Group's portion of the Survey, and is now serving as Principal-in-Charge for any ongoing or new work Forte and Tablada is tasked with.

Firm employed by **Forte & Tablada, Inc.**					
Name	Joffrey E. Easley, M.S., P.E.		Years of relevant experience with this employer	17	
Title	Project Manager, Transportation Market		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			MSCE / LSU / 2003 BSCE / LSU / 2000		
Active registration number / state / expiration date			31542 / LA / 03/31/2025		
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/19 – 02/20	LA DOTD Retainer for In-Depth Bridge Inspections | Simmesport, LA Project engineer responsible for Inspection of the approach spans, consisting of rolled steel and plate girder spans supported by column bents, of the LA 1 bridge over the Atchafalaya River.
05/16 – 10/19	LA DOTD Retainer Contract for Complex Bridge Load Rating | Statewide, LA - Project Manager to perform an in-depth inspection and load rating for the US 90 West Middle River Bridge near the Louisiana/Mississippi border. This bridge was constructed in 1933 and includes reinforced concrete approach spans, as well as Warren pony through-truss spans.
03/14 – 03/17	LA DOTD Load Rating of On-System Bridges | Statewide, LA – Team leader and load rating engineer for over 200 slab span and girder bridges across Louisiana. Utilized Virtis (BrR) load rating software. Project Manager and Team Leader for two Task Orders under a load rating retainer contract to perform ultrasonic testing on several bridges across the state in accordance with FHWA requirements. Testing is required on all non-redundant tension members composed of T-1 steel with complete joint penetration (CJP) butt welds that were fabrication without a fracture control plan (FCP). Task Order 7 is for the testing of the LA 47 bridge over the Mississippi River Gulf Outlet (MRGO), which is commonly referred to as the "Green Bridge". The main span of this bridge is a box-shaped tied arch span with deck truss flanking spans. Ultrasonic testing of 156 welds, primarily located in the tie girders, was required. Multiple rejectable defects were identified. Many of the defects were removed by using an annular cutter, but two welds contained multiple deficiencies. Repair options for these welds are being coordinated with FHWA and LA DOTD and are being developed by WJE. (09/23 – Ongoing). Task Order 8 is for the testing of the US 90 bridge over the Atchafalaya River in Morgan City and the I-20 bridge over the Mississippi River in Vicksburg. Both bridges are cantilevered through trusses composed of fabricated I-shapes. The US 90 bridge and the I-20 bridge contain 108 welds and 68 welds that require testing, respectively. Weld testing of both bridges is complete and repair options are currently being developed to mitigate rejectable indications. (12/23 – Ongoing)
03/18 – 05/22	LA DOTD Retainer Contract for Off-System Bridge Load Rating | Statewide, LA - Project Manager, Load Rating Engineer, and Team Leader for a retainer contract that includes multiple Task Orders to inspect and load rate off-system bridges and culverts across the state.

	Task Order 1 – Inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings, and truss bridges. Task Order 2 – Inspection and load rating of 199 off-system bridges, consisting primarily of slab spans. Task Order 2b and 3 – Inspection and load rating of approximately 200 culverts that meet the requirements to be considered a bridge across the state. Task included the development of unique inspection techniques utilizing 3-D laser scanning and sonar for the inspection of these structures. Task Order 4 – Inspection and load rating of 340 off-system bridges, consisting primarily of slab spans, but also including concrete and steel girder spans, included the Linwood Avenue bridge over multiple railroad tracks in Shreveport, LA. The bridge is near the I-49 / I-20 interchange and is composed of steel girders, steel bent caps, and steel column assemblies. Because existing plans were not available, 3-D laser scanning was utilized to capture complex geometry and member sizes that were then utilized in the load rating and in the development of load rating plans.
09/22 – Ongoing	LA DOTD Retainer Contract for Bridge Load Rating Services | Statewide, LA - Project Manager, Load Rating Engineer, and Team Leader for two Task Orders under a load rating retainer contract to perform a load rating for numerous bridges that have experienced a condition drop due to deterioration. The load ratings are being performed in accordance with LADOTD BDEM.96 – Publication of Load Rating, Posting and Strengthening Standard Operating Procedure (SOP). Task Order 1 is for the load rating of ninety-five (95) on-system slab span bridges that have experienced a condition drop since the last load rating. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting. Task Order 6 is for the load rating of approximately sixty-five (65) on-system girder bridges that have experienced a condition drop since the last load rating. Bridges vary from small bridges built using LADOTD Standard Plans to complex urban bridges several-thousand feet long.
03/23 – Ongoing	E Lewis St Bridge Upgrades – Lafayette, LA - Project Manager for a multi-phase project involving the inspection, load rating, and development of rehabilitation plans for a steel girder and slab span bridge that serves the University of Louisiana at Lafayette. Load rating utilized material testing and a 3-D laser scan to determine appropriate properties to consider for the load rating, which resulted in the removal of a 3-ton posting requirement. To improve the long-term performance of the bridge, rehabilitation plans are being developed, including strengthening of the steel girders, concrete spall and cracking repairs, a urethane-epoxy overlay of the bridge deck, and sidewalk repairs.

Firm employed by **Forte & Tablada, Inc.**					
Name	Levi Yantis, P.E.		Years of relevant experience with this employer	8	
Title	Engineer		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BSCE / LSU / 2013		
Active registration number / state / expiration date			42390 / LA / 09/30/2024		
Year registered	2018	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/22-Ongoing	LA DOTD Retainer Contract for Load Rating Services – Task Order 6 | Statewide, LA - Leading and supervising the load ratings of on-system girder span bridges throughout the state of Louisiana. Structure types range from prestressed concrete girder spans to continuous steel girder units.
09/22-Ongoing	LA DOTD Retainer Contract for Load Rating Services – Task Order 1 | Statewide, LA - Leading and supervising the load ratings of on-system slab span bridges throughout the state of Louisiana. Team leader for bridge inspections to collect additional deterioration measurements of bridge components.
02/22– Ongoing	Ascension Parish Load Ratings | Ascension Parish, LA - Team leader for the inspection of Ascension Parish owned bridges. Also serving as the lead load rating engineer for the bridges after inspection.
03/23-06/23	Port of New Orleans, St. Claude Avenue Bridge Updated Load Rating | New Orleans, LA - Performed an updated load rating for the single bascule span on St. Claude Avenue after significant section loss was found by LADOTD inspection forces. Performed an inspection to verify and quantify section loss measurements noted in the LADOTD inspection report.
04/23-07/23	E Lewis Street Bridge Load Rating | Lafayette, LA - Performed an updated load rating of an existing steel girder span that was load posted at 3T under a state load rating contract. Material testing was completed to obtain specific material properties, used with previous load testing data, the need for load posting was determined to no longer be necessary.
03/18-04/22	LA DOTD Retainer Contract for Off-System Bridge Load Rating – Task Order 1 | Statewide, LA - Led and assisted in 12 complex moveable bridge inspections and load ratings throughout the state. The bridge types included a single leaf bascule span, a vertical lift truss span, several steel vertical lift spans, multiple pontoon bridges, a steel plate girder swing bridge, a small steel truss/cable swing span, and a non-moveable steel truss.
03/18-04/22	LA DOTD Retainer Contract for Off-System Bridge Load Rating – Task Order 2 | Statewide, LA - Task Order 2 – Led and supervised the load ratings of 200 off-system slab span bridges throughout the state of Louisiana. To avoid posting bridges lower than necessary, bridge inspections were done for several bridges that had severe deterioration noted in their inspection reports to collect additional deterioration measurements to accurately determine the bridge member's load carrying capacity.
03/18-04/22	LA DOTD Retainer Contract for Off-System Bridge Load Rating – Task Order 5 | Statewide, LA - Task Order 5 – Load testing and refined load rating analysis of slab span bridges and culverts that previously received low or closed load postings.
01/22-03/22	Mall of Louisiana Boulevard Modified Bent Redesign | East Baton Rouge Parish, LA - Redesigned a bent cap that had a pile misdriven during PDA. Pile load checks and a modified bent load rating were performed also.

10/21-05/22	DOW Chemical Bridge Design | Iberville Parish, LA - Designed a precast slab span bridge within the DOW Chemical plant facility. The bridge was designed to LADOTD specifications, as well to support the plant's oversized crane. Special design consideration had to be taken for the soil constraints at the site.
12/17-01/22	Cook Road Expansion | Livingston Parish, LA - Slab span superstructure and pile bent substructure design. Also assisted in the bridge plan development.
11/18-12/18 09/22-10/22	Port of New Orleans, St. Claude Avenue Bridge Permit Load Rating | New Orleans, LA - Performed permit load ratings for an overload vehicle to safely pass the single bascule span on St. Claude Avenue.
03/21-10/21	TDOT Complex and Standard Bridge Load Ratings | Statewide, TN - Oversaw a team of load raters performing 35 AASHTOWare BrR load ratings in 4 months and was responsible for the quality control of the model inputs and outputs, troubleshooting bridge models, and assisting in load ratings. The bridge types load rated using AASHTOWare BrR software were prestressed I-beams and box girders, reinforced concrete multi-cell box bridges, reinforced concrete T-beams, continuous steel plate girders, and steel girder-floorbeam-stringer systems.
01/20-10/21	LA DOTD Retainer for Complex In-Depth Bridge Inspections | Statewide, LA - Served as Team Leader for the structural, mechanical and electrical in-depth inspections for multiple movable bridges. Bridge types included vertical lift span bridges and steel swing bridges (through girders and through trusses). Also served as the task manager for preparing the in-depth inspection reports. There was also a task order under this contract to perform emergency repairs on an US 71 Bridge in Shreveport, LA. Led the superstructure design for the emergency repairs.
01/20-10/21	Florida Department of Environmental Protection (FDEP), Palatka Trail Pedestrian Bridge | Elkton, FL - Served as lead structures designer for a two-span, 210' structure over US-601. The two-span structure includes the design of FIB concrete girders with an intermediate hammerhead pier, pile supported stub abutments and wrap-around MSE retaining walls.
01/20-12/20	TDOT Complex Bridge Load Ratings | Statewide, TN - This project was to load rate a total of 41 complex bridges within a short time period to help the State meet a critical FHWA Deadline. Levi was involved in the quality control process of multiple bridge load ratings.
06/16-04/20	St. Tammany Parish Off-System Bridge Load Ratings | St. Tammany Parish, LA - Led and assisted in bridge inspections and served as the load rating engineer for bridges throughout the parish of St. Tammany. The bridge types include slab spans, prestressed girder spans, and bridges constructed from retired railroad flatcars.
05/16-10/19	LA DOTD Retainer Contract for Complex Bridge Rating | Statewide, LA - Bridge inspector and load rater for a through truss bridge over a branch of the Pearl River. The bridge consisted of 3 pony truss spans and reinforced concrete T-beams and was load rated utilizing AASHTOWare BrR, Leap Bridge Concrete and Mathcad software.
03/14-03/17	LA DOTD Load Rating of On-System Bridges | Statewide, LA - Assisted in load rating of approximately 200 existing bridges across the state of Louisiana. Bridges range from slab span bridges on local roads to elevated curved steel interstate bridges in metropolitan areas.
12/13-05/14	Million Dollar Road Bridge Rating | St. Tammany Parish, LA - Assisted in the field inspection of the bridge and carried out the structure's substructure load rating.

Firm employed by **Moffatt & Nichol, Inc.**					
Name	Chace Hulon, PE, ADCI		Years of relevant experience with this employer	10	
Title	M&N PM/NBIS Team Lead Bridge Inspector		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization			Bachelor of Science / 2005 / Civil Engineering		
Active registration number / state / expiration date			P.E. 39701 / LA / Exp. 09/30/25		
Year registered	2009	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			M&N Project Manager and NBIS Underwater Team Leader | **Meets MPR 4 (a), 5, 8, 9, 10 – meets 5-year minimum requirement**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/22 – Ongoing	**LADOTD IDIQ Contract for Bridge Inspection Services, Statewide, Louisiana.** As a subconsultant, Mr. Hulon was M&N's PM/ Inspection Team Leader for in-depth inspection (fulfilling both routine & fracture critical inspections) several large bridges within Louisiana. Services included inspection planning, document retrieval/review, bridge inspection, and QC review of inspections and reports. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LADOTD Bridge Inspection Manual. Bridges included: • US 190 (Huey P. Long) Bridge over Mississippi River, Baton Rouge – utilized rope access techniques/methodology to provide element-level inspection of approach spans. • Interstate 10 bridge over Calcasieu Bridge, Lake Charles – in-depth inspection of approach and main truss spans including use of snooper truck. • Interstate 10 (John James Audubon) Bridge over Mississippi River, Ventress – in-depth inspection of structure's towers and cable stays using rope access techniques to reach cables, dampers, & anchorage • Interstate 10 (Horace Wilkinson) Bridge over Mississippi River, Baton Rouge – in-depth inspection of all above deck truss elements (verticals, diagonals, top chord, sway bracing, gusset plates) and access ladders, aviation lights & other misc. elements.
03/20 – 02/23	**LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana.** As a subconsultant, Mr. Hulon was M&N's PM/ Inspection Team Leader for this 5-yr-long contract to perform in-depth bridge inspections on complex and movable bridges throughout LA. As a major subconsultant to HNTB, he performed in-depth inspections (fulfilling both routine & fracture critical inspections) as a quality assurance measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges. Specific tasks included: • Inspected 2 cable-stayed bridges (Audubon & Luling) with rope access techniques to examine 208 cables on the 2 bridges, their Gensui Dampers, & anchorages. • Inspected I-10 Horace Wilkinson Bridge utilizing rope access techniques & rolling lane closures to greatly minimize traffic impacts. • Performed supplemental inspection of GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. • Performed fracture critical insp. of Green Bridge (steel tied arch) in New Orleans utilizing rope access & UAS access techniques. • Inspected I-10 Bridge over Calcasieu River in Lake Charles utilizing rope access on FCM's and UAS access techniques on columns. The Skydio drone with DroneDeploy and 3D Scan collected an orthomosaic projection of the structure for digital twin models. Hands-on management/implementation of QC review plan was vital to project success.

11/19 – 08/23	**LADOTD IDIQ for In-Depth Bridge Inspection of Complex Structures, Statewide, Louisiana.** M&N's PM/ Insp. Team Leader for detailed, in-depth NBIS bridge inspections on complex & movable bridges within LA. Completed in-depth inspections (fulfilling routine & fracture critical inspections) as a QC check of work completed by District personnel for Hdqtrs Bridge Insp. Office. Included cantilever truss, segmental concrete box girder, movable swing span, bascule, cable-stayed, & bridges with timber elements. Specific tasks included: • LA 8 Segmental Bridge over Red River, Boyce - approach spans, bridge approaches, external portions of segmental bridge, and general site. Included interior inspection of 16 segmental spans involving confined space requirements. Non-permit confined space entry was completed via the alternative method consisting of ventilation and continual air monitoring. (01) • LA 1 Bridge over Atchafalaya River, Simmesport - inspected main truss spans below the guardrail. Under-bridge inspection (UBI) vehicle & rope access techniques were utilized to access all elements. (01) • Performed structural inspections of six (6) movable bridges utilizing detailed, nondestructive, & laboratory testing methods with hand sketches. Utilized NDE methods (laser & acoustic) to analyze rotational movement of an unstable pivot pier. • Interstate 20 Bridge over Mississippi River, Delta, LA/Vicksburg, MS – inspected super-/substructure components Hands-on management/ implementation of QC review plan is vital to continued success of this project.
02/23 - Ongoing	**LADOTD Specifications for the National Bridge Inventory (SNBI) Program Development and Manual Publications, Statewide.** Project manager, Chief Editor, & Committee Chairman to update & further develop Bridge Inspection Manual (including off-system directives), Bridge Load Rating Manual, and Coding & Field Guide. Redevelopment resulted from recent NBIS changes in the CFR & implementation of SNBI. Manual will be fully compliant with the FHWA SNBI Program Metrics in accordance with published timeline. Manual will be uniquely ordered in a systemic fashion with an appendix to store all vital updated forms for Bridge Inspection Program. Following delivery, acceptance, and publishing, BIM training will be delivered to all Districts on the new document. M&N has been retained for 5 years to provide critical updates following NBIS changes. (2023-2028)
09/13 – Ongoing	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana.** Prj Director/Team Leader for third cycle and PM/Team Leader for two earlier cycles of contracts under which M&N has performed 1,375 (total) underwater NBIS bridge inspections. In-depth UWI were performed on 75 signature bridges over large waterways with deep foundations & dynamic channel conditions. Inspections were augmented with NDE acoustic imaging technology to consistently monitor streambed changes & structural deficiencies over subsequent inspection cycles. Acoustic hydrographic surveying methods were performed using the HydroLite-TM, Kongsberg Mesotech MS 1000, & Norbit Winghead i77 units deployed from a vessel. QINSy, Qimera, Applanix POSPac, MMS systems, & MatLab were used for accurate, repeatable post processing & evaluation. Assisted LADOTD with several emergency response requests within hours to days of request, utilizing local team members. Chief Editor of LADOTD Bridge Inspection Manual released in 2020.
07/22-01/23	**USACE, Bridge Inspections, USAG Fort Polk, Leesville, LA**. M&N PM & QC field engineer leader for inspection of 63 FHWA reportable structures in the Fort Polk inventory completed as part of JV. Structure types included multi-beam reinforced concrete bridges, RCP & box culverts, and corrugated metal arch bridges and CMP culverts. Water levels at four structures required an underwater inspection which were completed by M&N's ADCI & EM385 compliant dive team. Inspection scheduling required close coordination with Range Control & Dept of Public Works to avoid impacting installation's daily activities. Performed final QC report reviews.
06/21 – Ongoing	**USACE, Bridge and Waterfront Inspections, Worldwide**. M&N PM for current 5-yr-long retainer contract held by the JV to perform NBIS bridge inspections on all types of bridges at US Army installations worldwide. Waterfront facilities will be assessed at specific sites, generally outside of the continental United States. Bridge and waterfront load ratings are expected to be large tasks under this contract. All inspections will incorporate some form of non-destructive testing for detailed data analysis.

Firm employed by **Moffatt & Nichol, Inc.**					
Name	Bryan Tyson, PE, ADCI		Years of relevant experience with this employer	4	
Title	NBIS Inspection Team Leader		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			Master of Science/2010/Civil Engineering; Bachelor of Science/2008/Civil Engineering		
Active registration number / state / expiration date			PE.0043425 / LA / 03-31-2025		
Year registered	2016	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			NBIS Underwater Team Leader | **Meets MPR 4 (a), 5, 8, 9**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/24 - Ongoing	**LADOTD IDIQ Contract for Bridge Inspection Services, Statewide, Louisiana.** Inspection Team Leader for in-depth inspection (fulfilling both routine & fracture critical inspections) of several large bridges within Louisiana. Provided site mob/demob & bridge inspection. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LADOTD Bridge Inspection Manual. Bridges included: • Interstate 10 (John James Audubon) Bridge over Mississippi River, Ventress – in-depth inspection of structure's towers and cable stays using rope access techniques to reach cables, dampers, & anchorage
02/23 - Ongoing	**LADOTD Specifications for the National Bridge Inventory (SNBI) Program Development and Manual Publications, Statewide.** Structural Eng. for update & further development of Bridge Inspection Manual (including off-system directives), Bridge Load Rating Manual, and Coding & Field Guide. Update resulted from recent NBIS changes in CFR & implementation of SNBI. Manual will be fully compliant with the FHWA SNBI Program Metrics in accordance with published timeline. Manual will be uniquely ordered in a systemic fashion with appendix to store vital updated forms for Bridge Inspection Program. M&N has been retained for 5 years to provide critical updates following NBIS changes.
06/22 – Ongoing	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana.** Insp. Team Leader/Member for 2 tasks (to date) under M&N's third, consecutive contract to provide UW NBIS bridge insp. statewide. When completed, a total of 699 bridges will be inspected under those 2 tasks. Includes in-depth UWI on signature bridges over large waterways with deep foundations & dynamic channel conditions. Inspections augmented with NDE acoustic imaging technology to consistently monitor streambed changes & structural deficiencies between inspection cycles. Responded to several emergency requests for inspection within hours to days utilizing local personnel.
06/17 – 04/18	**LADOTD Underwater Bridge Inspection of Large River Crossings, Statewide, Louisiana.** Structural Eng./Insp. Team Leader/Diver for two tasks under a five-year, open-end retainer contract to perform underwater bridge inspections throughout Louisiana. Provided Level I, II, & III inspections of submerged elements in accordance with FHWA, BIRM, AASHTO MBE, current NBIS requirements, & LADOTD Engineering & Maintenance Directives. Bridge types included movable swing span, bascule, truss, timber stringer, cable-stayed, single & multi-span bridges up to 8 miles long. Assisted with preparation of NBIS inspection reports. During the two tasks, Mr. Tyson provided inspection of 41 major bridges over large waterways with deep foundation & dynamic channel conditions.
09/15-12/15 and 01/17-01/18	**LADOTD Retainer Contract for Underwater Bridge Inspection with the Majority of Work in Districts 03, 07, & 61, Statewide (2013-18).** Structural Eng./Inspection Team Member for 2 tasks out of 10 completed for this LADOTD five-yr-long retainer contract to perform underwater bridge inspections throughout LA. Provided Level I, II, and III inspections of submerged

	elements in accordance with FHWA, BIRM, AASHTO MBE, current NBIS requirements and LADOTD engineering & maintenance directives. Bridge types included movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, single and multi-span bridges. Assisted preparation of NBIS inspection reports. During the two tasks, Mr. Tyson provided inspection of more than 45 concrete, steel, and/or timber bridges. Included emergency evaluations utilizing underwater acoustic imaging. Second task involved bridges over large waterways with high-risk environmental conditions. Also, provided NBIS inspection reports.

Firm employed by **Moffatt & Nichol, Inc.**					
Name	Charles Balzarini, PE, ADCI		Years of relevant experience with this employer	11	
Title	NBIS Inspection Team Leader		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number / state / expiration date			AELC13854 / Alaska / 12-31-2025		
Year registered	2013	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/22 – Ongoing	**LADOTD IDIQ Contract for Bridge Inspection Services, Statewide, Louisiana.** Inspection Team Leader for in-depth inspection (fulfilling both routine & fracture critical inspections) of several large bridges within Louisiana. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LADOTD Bridge Inspection Manual. Bridges he inspected were: • US 190 (Huey P. Long) Bridge over Mississippi River, Baton Rouge – utilized rope access techniques/methodology to provide element-level inspection of approach spans.
03/20 – 02/23	**LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana.** M&N Inspection Team Leader for this 5-yr-long contract to perform in-depth bridge inspections on complex and movable bridges throughout LA. As a major subconsultant to HNTB, he performed in-depth inspections (fulfilling both routine & fracture critical inspections) as a quality assurance measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges. Mr. Balzarini worked on three tasks under this contract: • Inspected 2 cable-stayed bridges (Audubon & Luling) with rope access techniques to examine 208 cables on the 2 bridges, their Gensui Dampers, & anchorages. • Performed supplemental inspection of GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. • Performed fracture critical insp. of Green Bridge (steel tied arch) in New Orleans utilizing rope access techniques.
11/19 – 08/23	**LADOTD IDIQ for In-Depth Bridge Inspection of Complex Structures, Statewide, Louisiana.** M&N Inspection Team Leader for in-depth bridge inspections on complex & movable bridges within LA. Performed complete in-depth inspections (fulfilling routine & fracture critical inspections) as a QA measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever truss, segmental concrete box girder, movable swing span, bascule, cable-stayed, and bridges with timber elements. Specific bridges on which Mr. Balzarini worked were: • Movable bridges involving structural, mechanical, & electrical inspection. Provided QC of inspection report • Interstate 20 Bridge over Mississippi River, Delta, LA/Vicksburg, MS – inspected super-/substructure components
06/21 - Ongoing	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana.** Structural Engineer/Insp. Team Leader under M&N's third, consecutive contract to provide UW NBIS bridge insp. statewide; 843 bridges were inspected under 3 tasks (to date). Included in-depth UWI on signature bridges over large waterways with deep foundations & dynamic channel conditions. Inspections augmented with NDE acoustic imaging technology to consistently monitor streambed changes & structural deficiencies between inspection cycles. QINSy, Qimera, Applanix POSPac, MMS systems, & MatLab were used for

	accurate/repeatable post processing/ evaluation. Responded to several emergency requests for inspection within hours to days utilizing local team members.
06/17 – 12/20	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana** Structural Eng./Insp. Team Leader/Diver for second & third cycles of five-year, open-end retainer contracts to perform underwater bridge inspections throughout Louisiana. Provided Level I, II, & III inspections of submerged elements in accordance with FHWA, BIRM, AASHTO MBE, current NBIS requirements, & LADOTD Engineering & Maintenance Directives. Bridge types included movable swing span, bascule, truss, timber stringer, cable-stayed, single & multi-span bridges up to 8 miles long. Assisted with preparation of NBIS inspection reports. Also assisted with preparation of LADOTD Bridge Inspection Manual released in 2020.
07/22-01/23	**USACE, Bridge Inspection, US Army Garrison Fort Polk, Leesville, LA**. As part of a JV, Structural Engineer/Inspection Team Leader for inspection of 63 FHWA reportable structures in the Fort Polk inventory. Provided planning, previous report review, bridge inspections, & report preparation for bridges & large culverts. Structure types included multi-beam reinforced concrete bridges, RCP & box culverts and corrugated metal arch bridges and CMP culverts. Water levels at four structures required an underwater inspection which were completed by M&N's ADCI & EM385 compliant dive team. Inspection scheduling required close coordination with Range Control & Dept of Public Works to avoid impacting installation's daily activities. Performed final QC report reviews.

Firm employed by **Moffatt & Nichol, Inc.**					
Name	Matthew Balzarini, PE, ADCI		Years of relevant experience with this employer	11	
Title	NBIS Inspection Team Leader		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number / state / expiration date			AELC13854 / Alaska / 12-31-2025		
Year registered	2013	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/22 – Ongoing	**LADOTD IDIQ Contract for Bridge Inspection Services, Statewide, Louisiana.** Inspection Team Leader for in-depth inspection (fulfilling both routine & fracture critical inspections) of several large bridges within Louisiana. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LADOTD Bridge Inspection Manual. Bridges he inspected were: • US 190 (Huey P. Long) Bridge over Mississippi River, Baton Rouge – utilized rope access techniques/methodology to provide element-level inspection of approach spans. • Interstate 10 (John James Audubon) Bridge over Mississippi River, Ventress – in-depth inspection of structure's towers and cable stays using rope access techniques to reach cables, dampers, & anchorage.
03/20 – 02/23	**LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana.** M&N Inspection Team Leader for this 5-yr-long contract to perform in-depth bridge inspections on complex and movable bridges throughout LA. As a major subconsultant to HNTB, he performed in-depth inspections (fulfilling both routine & fracture critical inspections) as a quality assurance measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges. Mr. Balzarini worked on three tasks under this contract: • Inspected 2 cable-stayed bridges (Audubon & Luling) with rope access techniques to examine 208 cables on the 2 bridges, their Gensui Dampers, & anchorages. • Performed supplemental inspection of GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. • Performed fracture critical insp. of Green Bridge (steel tied arch) in New Orleans utilizing rope access techniques.
11/19 – 08/23	**LADOTD IDIQ for In-Depth Bridge Inspection of Complex Structures, Statewide, Louisiana.** M&N Inspection Team Leader for in-depth bridge inspections on complex & movable bridges within LA. Performed complete in-depth inspections (fulfilling routine & fracture critical inspections) as a QA measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever truss, segmental concrete box girder, movable swing span, bascule, cable-stayed, and bridges with timber elements. Mr. Balzarini worked on: • Interstate 20 Bridge over Mississippi River, Delta, LA/Vicksburg, MS – inspected super-/substructure components
08/20 - Ongoing	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana.** Structural Engineer/Insp. Team Leader for 3 tasks (to date) under M&N's third, consecutive contract to provide UW NBIS bridge insp. statewide. Provided draft/final report preparation and field investigations. When completed, a total of 773 bridges will be inspected under these tasks. Includes in-

	depth UWI on signature bridges over large waterways with deep foundations & dynamic channel conditions. QINSy, Qimera, Applanix POSPac, MMS systems, & MatLab were used for accurate/repeatable post processing/evaluation.
06/17 – 12/20	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana** Structural Eng./Insp. Team Leader/Diver for second & third cycles of five-year, open-end retainer contracts to perform underwater bridge inspections throughout Louisiana. Provided Level I, II, & III inspections of submerged elements in accordance with FHWA, BIRM, AASHTO MBE, current NBIS requirements, & LADOTD Engineering & Maintenance Directives. Bridge types included movable swing span, bascule, truss, timber stringer, cable-stayed, single & multi-span bridges up to 8 miles long. Assisted with preparation of NBIS inspection reports.
08/21 – Ongoing	**IDTC for Engineering, Design, & Associated Engineering Support Services for Bridge & Waterfront Facility Inspections, Worldwide.** Structural eng/insp team member for a five-yr-long contract to perform NBIS inspections on all types of bridges & waterfront facilities at US Army installations worldwide under a JV for USACE, Vicksburg District. Specialty access operations have included commercial diving, industrial rope access, unmanned aerial systems, and under bridge inspection vehicles. Engineering condition assessments have included nondestructive testing, repair recommendations, cost estimates, load ratings, durability analysis, finite element analysis, & mooring/berthing analysis. Specific tasks on which Mr. Balzarini worked were: • **2023 Waterfront Facilities Inspections & Structural Analysis of Surface Deployment & Distribution Command (SDCC) Transportation Core (TC) Dock, 841st Transportation Battalion, Joint Base Charleston, North Charleston, SC.** Provided routine inspection. • **McAlester Army Ammunition Plant (MCAAP), McAlester, OK.** Provided QC review of this task's inspection reports for 48 bridges.

Firm employed by **Moffatt & Nichol, Inc.**					
Name	Clint Harr, PE, ADCI		Years of relevant experience with this employer	4	
Title	NBIS Inspection Team Member		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BS / 2018 / Civil Engineering		
Active registration number / state / expiration date			59715 / Maryland / 12/31/2025		
Year registered	2023	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Underwater Inspection Team Member | **Meets MPR 4 (a), 5, 8, 9**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/23 – 03/23	**LADOTD IDIQ Contract for Bridge Inspection Services, Statewide, Louisiana.** M&N Inspection Team Member for in-depth inspection (fulfilling both routine & fracture critical inspections) of several large bridges within Louisiana. Services included inspection planning, document retrieval/review, bridge inspection, and QC review of inspections and reports. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LADOTD Bridge Inspection Manual. Bridges inspected by Mr. Harr were: • US 190 (Huey P. Long) Bridge over Mississippi River, Baton Rouge – utilized rope access techniques/methodology to provide element-level inspection of approach spans; provided mobilization to/demobilization from site.
08/22 – 09/22	**LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana.** Inspection Team Member for this 5-yr-long contract to perform in-depth bridge inspections on complex and movable bridges throughout LA. As a major subconsultant to HNTB, he performed in-depth inspections (fulfilling both routine & fracture critical inspections) as a quality assurance measure checking work completed by District personnel for Headquarters Bridge Inspection Office. Included cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges. Specific bridges inspected included: • Performed supplemental inspection of GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. • Performed fracture critical insp. of Green Bridge (steel tied arch) in New Orleans utilizing rope access & UAS access techniques.
04/22 – 05/22	**LADOTD IDIQ for In-Depth Bridge Inspection of Complex Structures, Statewide, Louisiana.** Insp. Team Member for detailed, in-depth NBIS bridge inspections on complex & movable bridges within LA. Completed in-depth inspections (fulfilling routine & fracture critical inspections) as a QC check of work completed by District personnel for Hdqtrs Bridge Insp. Office. Included cantilever truss, segmental concrete box girder, movable swing span, bascule, cable-stayed, & bridges with timber elements. Bridges inspected included: • Performed structural inspections of six (6) movable bridges utilizing detailed, nondestructive, & laboratory testing methods with hand sketches. Utilized NDE methods (laser & acoustic) to analyze rotational movement of an unstable pivot pier. • Interstate 20 Bridge over Mississippi River, Delta, LA/Vicksburg, MS – inspected super-/substructure components
09/21 – Ongoing	**USACE, Bridge and Waterfront Inspections, Worldwide**. Structural Engineer/Inspection Team Member for current 5-yr-long retainer JV contract to perform NBIS bridge inspections on all types of bridges at US Army installations worldwide. Waterfront facilities will be assessed at specific sites, generally outside of continental United States. Bridge & waterfront structure inspection/load ratings will be the primary focus. Inspections will utilize non-destructive testing as part of detailed analysis. Mr. Harr worked on the following tasks:

	• **Letterkenny Army Depot Bridge Inspections, US Army Corps of Engineers, Letterkenny, PA. Provided** structural safety inspections of bridges/culverts carrying vehicular/railroad traffic. Included pipe, box, & arch culverts as well as steel multibeam & concrete slab bridges. Developed inspection reports including findings, site plans, sketches, photographs, ABIS (Structure Inventory & Appraisal) forms, Level I Scour Analysis, channel profiles, IST tables, & repair recommendations with cost estimates. • USAG Fort Polk Bridge Inspections, Leesville, LA. Prepared inspection reports and provided QC review for this task which involved 63 FHWA reportable structures. • **U.S. Army Garrison Fort Polk/Fort Johnson, Leesville, LA. Assisted inspection report preparation for this task involving 32 bridges** • **McAlester Army Ammunition Plant (MCAAP), McAlester, OK. Inspection team member who provided inspection, report preparation & QC reviews of inspection reports for this task involving** 48 bridges.
03/22 – 03/22	**VDOT Limited Services Term Contract for Performing Safety Inspections of Highway Structures & Bridges in Staunton & Culpeper Districts.** Insp. Team Member for inspection of six bridges – 6 underwater with 3 including routine topside inspection. Bridges were one-, two-, or three-span reinforced concrete (5 total; 1 using Tee beams) or prestressed concrete box beam (1) structures. Piers were reinforced concrete as were abutments.
05/21 – 05/21	**Underwater Inspection of Bridges, Statewide, Virginia.** Inspection Team Member for underwater inspection of 16 structures with topside inspection of 5 of those 16. Provided inspection and data entry for inspection of VDOT bridges in Lynchburg, Richmond, Hampton Roads, & Fredericksburg Districts.
05/21 – 06/21	**Underwater Inspection of Three Bridges, City of Richmond, VA**. As a subconsultant, M&N provided underwater inspection with inspection report. Mr. Harr was an Insp. Team Member for inspection of three bridges: • River Road over Little Westham Creek – 25-ft-long, 77-ft-wide, simple span, reinforced concrete frame bridge • Mayo (US 360) Bridge over James River – two, multi-span, concrete arch bridge supported by 18 elements (piers or abutments) in the James River • Manchester Bridges over James River – 22 span, steel multi-beam and girder bridge supported by 11 piers in the James River.

Firm employed by **KTA-Tator, Inc.**					
Name	Robert Lanterman		Years of relevant experience with this employer	22	
Title	Supervisor-Other (Senior Coatings Consultant)		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			BE / 1999 / Chemical Engineering		
Active registration number / state / expiration date			NACE Certified Coatings Inspector (#13505; expiration 5/23/2025) SSPC Certified Protective Coatings Specialist (#2015-820-136; expiration 12/31/2027) Valid TWIC Card (expiration 10/26/2025)		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Coatings Specialist | **Meets MPR6**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
3/24 – 4/24	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed document review and coating condition assessment services for the US 190 Krotz Springs Bridges (eastbound and westbound) in St. Landry Parish. He prepared a report detailing the findings of the assessment and providing recommendations for the maintenance of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
3/22 – 3/22	**South East Philadelphia Transportation Authority (SEPTA), Philadelphia, PA.** Mr. Lanterman evaluated the existing coating condition (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement) on the eastern end of the Market Street Frankford Elevated Viaduct and provided recommendations on appropriate maintenance strategies, opinions of probable construction cost, and modification of the existing SEPTA surface preparation and coating application specifications for use in bidding the work to prospective contractors. KTA was a subconsultant to another engineering firm.
9/21 – 12/21	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed a coating condition assessment and assisted with the development of surface preparation, coating application, and environmental/worker protection and containment specifications/drawing notes for the rehabilitation of the IWGO Bridge in Baton Rouge. KTA was a subconsultant to another engineering firm.
7/20 – 8/20	**Cuyahoga County (OH) Department of Public Works, Cleveland, OH.** Mr. Lanterman provided coating condition assessment supervision for coatings laboratory testing, development of a maintenance painting strategy and recommendations, and development of an opinion of probable costs for the maintenance painting of the Denison Harvard Bridge in Cleveland. KTA was a subconsultant to another engineering firm.
2/20 – 5/20	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman provided coating condition assessment services, supervision of coatings laboratory testing, and report preparation for the rehabilitation of the coating system on the Jackson Street (Red River) Lift Bridge in Alexandria, LA. KTA was a subconsultant to another engineering firm.
2/18 – 6/19	**Delaware River Port Authority, Camden, NJ.** Mr. Lanterman provided coating consulting and project engineering services for a coating condition assessment of the NJ approach spans to the Walt Whitman Bridge in Gloucester, NJ. He performed a coating condition assessment of the spans to develop future maintenance painting strategies. KTA was a subconsultant to another engineering firm.

3/17 – 5/17	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on the US 90 Morgan City Bridge and Nearby Structures in Morgan City, LA. KTA was a subconsultant to another engineering firm.
2/17 – 3/17	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed a condition assessment of the weathering steel tower and girders on the I-310 Luling Bridge in Luling, LA. He prepared a report detailing the conditions found and providing recommendations for the remediation of the corrosion problems on this bridge. KTA was a subconsultant to another engineering firm.

Firm employed by **Gresham Smith**					
Name	John Weres, PE		Years of relevant experience with this employer	7	
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	36	
Degree(s) / Years / Specialization			Bachelor of Science / 1980 / Civil Engineering, University of Pittsburgh		
Active registration number / state / expiration date			PE.0036429 / LA / Exp. 9/30/25		
Year registered	2011	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	John's 40+-year career includes diverse structure related activities including inspection, alternatives analysis, final design and construction management and program management. Experience includes multi-level interchanges, complex geometry, truss rehabilitations and suspension bridge rehabilitations, phased construction, deep foundations, complex pier geometry, and movable bridge inspection and design. John served as Team Leader on several LA DOTD complex bridge inspections and as Project Manager for underwater bridge inspections for TDOT. NHI Certified 130055 (Team Leader), 130078 (Fracture Critical Steel), and 130092 Load Rating.
6/19 – 03/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | *Project Manager*. Task Order 1 -** Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River. Gresham Smith was able to complete the inspection of Bridge 005860, in Jeanerette, a steel swing truss and Bridge 009130, in Charenton, a steel swing truss – within the original budget for the initial three bridges.
04/20 – 9/20	**LADOTD, Complex Bridge Inspections, Statewide, LA | Task Order 2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, LA | *Project Manager*.** In April 2020, a train derailment damaged Bent 3 of the Spring Street Bridge forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the selected contractor, helical piles were designed to support the new column foundations and crash wall. John served as the design coordinator and facilitated the repairs.
07/20 - Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA | *Project Manager*. Task Order 3 -** Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
6/14 – 03/17 With another firm	**LADOTD, Complex Bridge Inspections, Statewide, LA | *Deputy Project Manager/Project Manager*.** Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the Louisa Bascule Bridge in St. Mary's Parish. John served on the field inspection teams for the I-20 Mississippi River Bridge in Vicksburg and the LA 47 Bridge over the Mississippi River Gulf Outlet. Under a separate task order, John led the evaluation of US 190 Bridge over US 22, including bridge rating with AASHTOWare BrR. The study was to determine the structural adequacy of the bridge with the addition of a center median.

06/21 – Ongoing	**FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL	*QA/QC.*** Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
11/17 – Ongoing	**MDOT, MS-178 Benton County Bridges, Benton County, MS	*Lead Structure Engineer.*** John served as the Lead Design Engineer for the final design of a 2-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
07/19 – Ongoing	**TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN	*Senior Structural Engineer.*** John provided bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
4/15 – 3/17 With another firm	**LADOTD, I-49 Lafayette Connector, Lafayette, LA	*Deputy Lead Structural Design Engineer.*** Served as Deputy Lead Structural Design Engineer for the concept design for a 4-mile long elevated structure through an urban area. Structure concepts included post-tensioned concrete U-girders, span-by-span segmental boxes, and steel trapezoidal boxes. John coordinated the efforts of the individual design teams for each structure type and served as the public coordination lead for the structures as part of an overall community involvement plan on developing the proposed structure type for this $800M project.
6/15 – 3/17 With another firm	**LADOTD, State Project No. H.004367.5 – Earhart Expressway Connector, Metairie, LA	*Deputy Project Manager, Lead Structures Engineer.*** Preliminary and final design for a 7,000-foot urban expressway structure as part of the Earhart Expressway to Airline Highway Connector project. Preliminary design activities included survey, SUE, development of design criteria, development of bridge typical sections and development of proposed span arrangements and coordination with CN Railroad for the placement of bridge piers within the railroad right-of-way.
03/03 – 10/06 With another firm	**Toll 576 Interchange at PA 60/Pittsburgh International Airport, Pittsburgh, PA Turnpike Commission	*Project Manager.*** New interchange included the design and construction of 5 mainline structures and associated ramps. The 2 longest mainline structures were 8-span continuous steel plate girder structures including 96” deep plate girders with tulip-shaped piers up to 80’ tall. John served as PM for the entire design and EOR for all bridges (sealed the plans). John oversaw all design for the multi-span mainline bridges and two ramp structures, including all quality control checks. Oversaw the roadway design and geotechnical investigations.

Firm employed by **Gresham Smith**					
Name	Yun Lin, Ph.D., P.E.		Years of relevant experience with this employer	7	
Title	Engineer		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS Civil Engineering, West Virginia University, 2008 | MS Civil Penn State University, 2010 Doctor of Philosophy (Ph.D.) Structures, West Virginia University, 2015		
Active registration number / state / expiration date			PE. 0042444 / LA / 9/30/24		
Year registered	2018	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	Dr. Lin relocated to Louisiana in 2015 and worked with John Weres with a different firm, prior to joining Gresham Smith in 2017. Dr. Lin's experience includes bridge inspection and rating, and bridge design. Dr. Lin is a trusted advisor to Midas for adapting their finite element analysis software for complex bridge geometry.
11/19 – 02/20	**LADOTD, Complex Bridge Inspections, District 08 Bridges** | Bridge Inspector. As an NHI Crtified Team Leader, Dr. Lin provided bridge inspection services for the Concrete Segmental Bridge in Boyce LA and also for the LA 1 truss bridge.
01/16 – 07/17	**LADOTD, Complex Bridge Inspections, GNO Bridge No. 1** | Bridge Inspector. Dr. Lin served as on-site inspector and prepared the inspection report for the GNO Bridge No. 1 in New Orleans. Duties included the hands-on inspection of the fracture critical truss elements utilizing bridge access equipment.
08/16 – 03/17	**LADOTD, Earhart Expressway Preliminary Design, Metairie, LA** | Bridge Designer. Dr. Lin performed bridge design and evaluation for the preliminary design of a 1,500' elevated bridge structure in Metairie. Tasks included span arrangement evaluations, development of typical sections for various structure types, and foundation evaluations.
03/17 – 07/17	**MDOT, Mississippi Bridge Load Ratings, Statewide, MS** | Designer. Dr. Lin performed load rating calculations for three bridges in Mississippi. To include the special truck load for Mississippi, he created a stand-alone bridge load rating Spreadsheet (LFR) for three bascule bridges in Mississippi. The program included all load rating vehicles, all required trucks by MDOT, as well as, permit trucks with customized axle loads.
07/19 – Ongoing	**TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN** | Project Engineer. Bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software. Dr. Lin led the modeling and analysis of complex structures utilizing both CSiBridge and Midas programs where appropriate.

Firm employed by **Gresham Smith**					
Name	Courtney Rome, PE			Years of relevant experience with this employer	7
Title	Bridge Engineer			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			Bachelor of Science / 2009 / Civil Engineering, Southern University and A&M College		
Active registration number / state / expiration date			PE.0043355 / LA / Exp. 9/30/24		
Year registered	2019	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/19 – Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA** | Engineer. As an NHI Certified Bridge Inspector, Courtney is performing bridge inspections for various complex bridge structures throughout Louisiana, including steel trusses, concrete structures and moveable bridges.
07/19 – Ongoing	**TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN** | Project Engineer. Courtney provided bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
06/21 – Ongoing	**FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL** | QA/QC. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
11/17 – 01/18	**TDOT, Off-System Underwater Bridge Inspections, Statewide, TN** | QC Reviewer. Courtney provided quality control reviews for the inspection reports and graphics. The project included over 50 bridges throughout Tennessee
11/17 – Ongoing	**MDOT, SR 178 Benton County Bridge Replacements, MS** | Engineer. Gresham Smith provided final design (Phase B) services for the replacement of two water crossings on parallel alignment. Both bridges include utilization of prestressed Florida I-Beams (FIB) to maximize span lengths while minimizing structure depths. Courtney performed the deck design and beam design services for a one-span (135-foot) and three-span (80- x 100- x 80-foot) structure and also completed the design of pipe piles for the pier bents.
07/18 – Ongoing	**MDOT, SR 149 Simpson County Bridge Replacements, MS** | Engineer. Gresham Smith is partnering with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D'Lo, Simpson County, Mississippi. Courtney served as Engineer-of-Record for the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.

Firm employed by **Gresham Smith**					
Name	Russell Childs, PE			Years of relevant experience with this employer	2
Title	Senior Bridge Inspector / Bridge Engineer			Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			Bachelor of Science / 2002 / University of Mississippi		
Active registration number / state / expiration date			P.E. 17676 / MS / 12/31/25		
Year registered	2007	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead / Bridge Inspector | **Meets MPR 4 (a), 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
Career	Russell's 20-year career was gained primarily as an employee of the Mississippi Department of Transportation (MDOT), focused on bridges. Upon graduation, Russell served seven years in the MDOT Bridge Design Division in Jackson, followed by 13 years as a bridge inspector for MDOT District 2 in Batesville, eventually serving as a team leader.
06/02 – 06/09	**MDOT, Bridge Design Unit** | Bridge Designer. Developed preliminary bridge layouts for hydraulic structures, analysis of prestressed concrete beams, design of reinforced concrete decks, piers and abutments, and shop drawing reviews.
06/09 – 06/22	**MDOT, District 2** | Inspection Team Leader. Served as Inspection Team Leader on routine, special, in-depth and fracture critical inspections for all in-house bridge inspections across the Batesville District.
07/22 – Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA** | Bridge Inspection Team Leader. Russell is serving as bridge inspection Team Leader for various bridge Special inspections throughout DOTD District 62. The inspections are used to develop a sound base of inspection format for future District inspectors. Russell is leading the inspection activities in the field as well as taking a leadership role in updating all AssetWise information. Bridge inspections have included prestressed concrete slabs, concrete beam bridges, railcar structures, curved steel girders and full timber bridges.

Firm employed by **Gresham Smith**					
Name	Ryan Horn, EI		Years of relevant experience with this employer	6	
Title	Bridge Engineer Intern		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			Bachelor of Science / 2019 / Civil Engineering, The University of Georgia		
Active registration number / state / expiration date			EI. 028076 / N/A		
Year registered	2019	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/21 – 08/21	**FDEP, Florida Keys Overseas Heritage Trail Bridge Evaluations, Monroe County, FL** | Bridge Inspector. Ryan assisted with the bridge inspection and evaluation of two historic bridges in the Florida Keys. The bridges include the Seven Mile Bridge and the BahiaHonda Truss structures. Both bridges are closed to all use and Gresham Smith was tasked with evaluating the structures, documenting the condition and proposing rehabilitation/replacement options. Inspection activities included both visual observation from a boat and drone video documentation. Ryan served as boat operator, assistant inspector, and spotter for drone flights.
01/19 – Ongoing	**GDOT, Bridge Replacement, SR 10/ US 78 at North Oconee River, Clarke County, GA** | Bridge Engineer. Gresham Smith designed the replacement of the existing SR 10/US 78 rural bridge over the North Oconee River, which is approximately 215 feet long and 89 feet wide. We developed the environmental document with NEPA guidelines, preliminary and final roadway plans, and preliminary and final bridge plans. This project is still ongoing. Ryan was responsible for Concept layouts, Existing plan research and site visit for field measurements. Including final bridge deck, beam design and plan production. As well as designing the closed system deck drainage system and generating deck drainage calculations.
01/19 – 01/21	**GDOT, SR 10 Loop EB and WB at SR 8/US 29, PI #0013716, GA** | Bridge Engineer. This project involves the replacement of twin bridges located along SR 10 Loop over SR 8/US 28 and West Fork Trail Creek utilizing median crossovers to allow for traffic to be maintained during all phases of construction and reduce the number of detours. Ryan was responsible for preliminary bridge plans and final bridge plans, including geometric layout, preliminary beam and deck design.

Firm employed by **Gresham Smit**h					
Name	Jackson Hartley, EI			Years of relevant experience with this employer	3
Title	Bridge Engineer Intern			Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S. Civil Engineering, Louisiana State University, 2021		
Active registration number / state / expiration date			EI. 35058 / 09/30/24		
Year registered	N/A	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Bridge Inspector | **Meets MPR 5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).**
06/21 – Ongoing	**LADOTD, Complex Bridge Inspections, Statewide, LA** | Bridge Engineer Intern. Task Order 3 - Retainer project for various movable bridge inspections. Jackson began his career assisting with site inspections of movable bridges including Bridge 009130, Charington Swing Bridge, Bridge 005860 Jeanerette Swing Bridge, and Bridge 003450 Boudreaux Canal. Following graduation from LSU, Jackson has performed photo log preparation and stream bed analysis for the Boudreaux Canal Bridge. Jackson participated in the site inspections and photo documentation as a summer intern and has progressed.
09/21 – 11/21	**MDOT, MS-493 Bridge Replacements, Lauderdale County, MS** | Bridge Engineer Intern. Jackson is assisting bridge services during construction (Phase C) work for the replacement of two stream crossing bridges in Lauderdale County, MS. The design includes a curved structure alignment and a sharply skewed bridge alignment. Modified FIB concrete beams, similar to DOTD's LG-25 girders, were utilized to minimize the structure depth in order to meet hydraulic requirements.
06/21 – Ongoing	**FDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL** | Bridge Engineer Intern. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic. Jackson assisted with cataloging the drone videos and photographs and also assisted with the report formatting.
11/22 – Ongoing	**Florida DEP, Florida Keys Shark Channel Bridge preservation, Monroe County, FL** | Engineer Intern. Jackson is assisting with quantity takeoffs and cost estimates for the rehabilitation of a concrete spandrel arch on the Florida Keys Overseas Heritage Trail.

Firm employed by Gresham Smith					
Name	Adam Davidson, PE			Years of relevant experience with this employer	6
Title	Senior Bridge Engineer			Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization			Master of Science / 2009 / Structural Engineering, University of Tennessee, Knoxville Bachelor of Science / 2002 / Civil Engineering (Structural Emphasis), Tennessee Technological University		
Active registration number / state / expiration date			PE. #110436 TN Expires 01/31/2026		
Year registered	2008	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Team Lead | **Meets MPR 4 (a)**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/19 – Ongoing	**TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN |** Project Manager, Senior Bridge Engineer. Adam provided bridge load rating management and QC reviews for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
10/15 – 6/17	**Eastern Federal Lands Highway Division (EFLHD) of the FHWA** | Senior Bridge Engineer. Adam provided bridge load ratings on several dozen bridges as part of an on-call contract, containing over 3,347 bridges in over 32 states and Washington, DC including the entire length of the Blue Ridge Parkway and Natchez Trace Parkway. Bridge load ratings prepared using AASHTOWare BrR.
10/15 – 6/17	**Heavy Haul Load Rating (Northern Virginia)** | Senior Bridge Engineer. Adam provided bridge load ratings on 20 structures for the passage of several superload hauler configurations with a maximum gross vehicle weight of approximately 1.7 million pounds for the delivery of components to the Panda Stonewall Energy Center in northern Virginia. Structures were analyzed using AASHTOWare BrR software and included eight concrete culverts, one arch culvert, three cored slabs, four prestressed concrete girder bridges, and four steel girder bridges. The project also included field verification of the condition of the structures.
07/09 – 02/15	**TVA, Bridge Load Rating Services** | Senior Bridge Engineer. Adam served as a structural engineer providing bridge load ratings on the following four structures located on TVA properties: Intake Tower Access Bridge at Blue Ridge Reservoir, Bridge over Kentucky Dam, Bridge over Chickamauga Dam, Bridge over Pickwick Dam, and Bridge on Bellefonte Access Rd. The structures load rated consisted of a steel truss bridge, steel girder-floor beam-stringer bridges, and a concrete slab bridge.

17. Firm Experience:

Firm name	**Bridge Diagnostics, Inc. (BDI)**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection / Survey	
Project name	Sunshine Bridge – Emergency inspection / monitoring after bridge impact		Firm responsibility (prime or sub?)	Sub	
Project number	M&M 4400012382 TO H.012343.6-1	Owner's name	LADOTD		
Project location	St. James Parish, LA		Owner's Project Manager	Haylye Brown	
Owner's address, phone, email	1100 Poydras Street, Suite 900, New Orleans, LA 70163 / (504) 524-4344				
Services commenced by this firm (mm/yy)	04/18	Total consultant contract cost ($1,000's)			
Services completed by this firm (mm/yy)	10/19	Cost of consultant services provided by this firm ($1,000's)		$185	

Following a bridge impact by a barge crane, the Sunshine Bridge was closed until emergency repairs could be completed. Modjeski & Masters was tasked with assessing overall condition of bridge and design of repairs. BDI was subcontracted to assist in the inspection and to provide instrumentation and structural monitoring. After performing ropes access inspection, the instrumentation was installed prior to the beginning of repairs so that deformation and structural stability could be verified. Structural monitoring included a web-based monitoring portal complete with alarm systems to warn of excessive deformation. Installation began within days of the bridge impact and monitoring continued throughout the repair construction.

Subsequent to inspection, strain gages were installed on several members to measure changes in truss member forces. Tilt sensors were installed to measure global movement of the affected span, and laser displacement sensors were used to track displacement between floorbeams at the impact zone. Access to the sensor locations was performed via SPRAT ropes access during the emergency inspection. BDI reported critical findings as part of this in-depth inspection and worked with LADOTD to develop objectives and scope to design the monitoring system to ensure data collection and reporting during the maintenance to restore the structure. Data was reported in accordance with AASHTO and NBIS standards and BDI's website for ongoing monitoring.

Relevance: This project illustrates BDI's technical capabilities with ***emergency inspection of truss bridges via ropes access, instrumentation, and structural monitoring***. In addition, it shows BDI's commitment to respond to emergency situations with local personnel and staff around the US.

Key staff who supported this project: Brett Commander (MPR1-2) – Principal Engineer & QC, Charlie Young (MPR3) – Inspection and Instrumentation Engineer, Brice Carpenter (MPR4) – Inspection and Instrumentation Engineer, Steven Fall (MPR4) – Inspection Engineer

Firm name	**Bridge Diagnostics, Inc. (BDI)**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	St. Claude Bridge – Operational inspection and performance tests		Firm responsibility (prime or sub?)		sub
Project number	PONO 82091 HNTB 65698	Owner's name	Port of New Orleans		
Project location	New Orleans, LA		Owner's Project Manager	Dusty Bastion (HNTB)	
Owner's address, phone, email	HNTB / Bridge Department / (225) 368-2810 / dbastion@hntb.com				
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost ($1,000's)			
Services completed by this firm (mm/yy)	01/20	Cost of consultant services provided by this firm ($1,000's)			$59

The St. Claude Bridge is a Strauss double heel-trunnion bascule carrying St. Claude Avenue over the Industrial Canal in New Orleans, LA. During a routine bridge inspection, it was discovered that bushing material was falling out of a pin connection at the link member connecting the span and counterweight trusses. This was a critical finding which required investigation as to the cause of the bushing failure.

BDI subsequently worked with LADOTD to develop additional inspection and testing procedures that would capture performance issues associated with overloading or binding of the link pin. Strain gages were attached to the link members at multiple cross-sections to capture axial force and flexural profiles. Access to the strut member was achieved through SPRAT ropes access and strains gages were installed on the drive struts and the pinion gear shafts and used to measure lifting force, trunnion friction, and operational symmetry. The initial round of tests performed in July of 2019 identified asymmetrical lifting at the two rack and pinion drives which caused the bridge to be lifted nearly entirely from one side causing significant racking of the span and counterweight trusses. Follow up tests were performed after damaged pin bushings were replaced and adjustments were made to the rack and pinion alignment. It was determined that the adjustments were successful and lifting forces on each side were equalized. In addition, BDI performed span/counterweight balance calculations to verify the bridge balance was within specification. Data was reported in accordance with AASHTO and NBIS standards and on BDI's website for ongoing monitoring.

Relevance: ***BDI's assistance in inspection and subsequent response with instrumentation and data analysis were essential to identifying and quantifying operational problems. This project illustrates BDI's ability to interpret inspection data and address complex condition and performance issues, shows experience with moveable bascule bridges, and ropes access for inspection and instrumentation.***

Key staff who supported this project: Brett Commander (MPR1-2) – Principal Engineer & QC, Charlie Young (MPR3) – Inspection and Instrumentation Engineer, Brice Carpenter (MPR4) – Inspection and Instrumentation Engineer, Steven Fall (MPR4) – Inspection Engineer

Firm name	**Bridge Diagnostics, Inc. (BDI)**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	West Larose Lift Bridge – weld inspection, cable tensions, and counterweight balancing		Firm responsibility (prime or sub?)		Sub
Project number	CEC PO 5381 BDI-190401	Owner's name	LADOTD		
Project location	Lafourche Parish - LA		Owner's Project Manager	Keith Angelette	
Owner's address, phone, email	Houma Sub-District / 985-858-2400 /				
Services commenced by this firm (mm/yy)	01/19	Total consultant contract cost ($1,000's)			
Services completed by this firm (mm/yy)	06/19	Cost of consultant services provided by this firm ($1,000's)			$20

As part of C.E.C.'s maintenance work at the West Larose Lift Bridge, counterweight wire ropes were replaced and re-tensioned. BDI was subcontracted to perform in-situ tension tests on all hoist wire ropes. Tension measurements were required to obtain the specified balance between the span and counterweight and to equalize tension among all cable groups.

This process was achieved using the Taut Cable Vibration Method (TCVM) during which accelerometers were attached to each cable to obtain the vibration frequency. Cable tension was computed from the measured frequency and physical cable properties. Cables were tested individually, and lengths were adjusted so that all cable tensions were within 5% of the median value. Cable groups at each span corner were examined on both sides of the hoist sheave to obtain weights of the span and counterweight.

Shortly after the cable tensioning work was complete, a crack in a weld at one of the main girders was discovered. BDI mobilized our local NDE engineer to site to perform Magnetic particle Testing (MT) to identify the extent of crack formation. The weld was first inspected visually and with MT to define extents. After the crack was gouged, it was re-inspected to verify the entire crack had been removed prior to C.E.C. replacing the weld.

Relevance: ***This project illustrates BDI's capabilities in advance inspection techniques; instrumentation to measure in-situ cable tensions, and condition assessment of moveable bridges using appropriate NDE methods.***

Key staff who supported this project: Brett Commander (MPR1-2) – Principal Engineer & QC, Charlie Young (MPR3) – Inspection and Instrumentation Engineer, Brice Carpenter (MPR4) – Inspection and Instrumentation Engineer, Steven Fall (MPR4) – Inspection Engineer

Firm name	**Bridge Diagnostics, Inc. (BDI)**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	Astoria Bridge – Historic Truss Inspection (damaged)		Firm responsibility (prime or sub?)		Prime
Project number	BDI – 230408-WY	Owner's name	Teton County, WY / Snake River Sporting Club		
Project location	Hoback, WY		Owner's Project Manager	Joe Cranston, SRSC	
Owner's address, phone, email	14885 Sporting Club Rd., Jackson, WY 83001 / (307)201-2564 / jcranston@srsportingclub.com				
Services commenced by this firm (mm/yy)	08/23	Total consultant contract cost ($1,000's)		$99	
Services completed by this firm (mm/yy)	08/23	Cost of consultant services provided by this firm ($1,000's)		$52	

Following a severe impact by an over-height truck, BDI was contacted by Consor Engineering to investigate the condition of a historic truss bridge crossing the Snake River near Jackson Hole, WY. Consor was the engineer of record to design repairs or a new bridge depending on the condition assessment. Aside from the buckled end-posts, primary concerns were the in-situ tension in the truss eyebars and condition of the truss pins. BDI and Consor were independently contracted by Snake River Sporting Club as they were the primary stakeholders of the bridge. Access for the inspection of all truss members and pins was performed using SPRAT ropes and structure climbing methods. All thirty-two pins on the damaged truss were inspected using visual and ultrasonic testing. In addition, the eyelets and truss connections were visually inspected. Magnetic Particle testing was performed on all visible cracks. In-situ tension was obtained through vibration measurements on each eyebar. Time domain data was converted to frequency to obtain modal responses. Frequencies from the first three modes were examined and utilized in equations to compute tension within prismatic members. Because modal frequencies were influenced by the eyebar bending stiffness, multiple equations were required to solve for the tension component.

Results from the inspection indicated that the truss pins were in good to fair condition with a few minor compliance issues such as insufficient exposed threads. However, due to the interaction between the truss and the floor system (reason the bridge did not collapse), several eyebars had zero stress while others were beyond allowable stress with dead load only applied. The bridge is now scheduled for replacement. Data was reported in accordance with AASHTO and NBIS standards.

Relevance: ***This project illustrates BDI's technical capabilities to perform advanced inspection and quantify existing stress states of truss members and connections with in-depth inspection and nondestructive testing with ultrasonic testing of pins.***

Key staff who supported this project: Brett Commander (MPR1-2) – Principal Engineer & QC, Charlie Young (MPR3) – Inspection and Instrumentation Engineer, Brice Carpenter (MPR4) – Inspection and Instrumentation Engineer, Steven Fall (MPR4) – Inspection Engineer

Firm name	**Bridge Diagnostics, Inc. (BDI)**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	Hale Boggs Memorial (Luling) Bridge – Inspection and Stay cable tension		Firm responsibility (prime or sub?)		Sub
Project number	DOTD - H.010498	Owner's name	LADOTD		
Project location	Luling, LA		Owner's Project Manager	Ching Tsai / Dana Feng	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 / (225) 379-1438 / dana.feng@la.gov				
Services commenced by this firm (mm/yy)	08/15	Total consultant contract cost ($1,000's)			
Services completed by this firm (mm/yy)	08/16	Cost of consultant services provided by this firm ($1,000's)			$70

As part of a deck overlay project, BDI was subcontracted by C.E.C. to perform inspection of and measure in-situ cable tension. Inspection and tension measurements were required on all stay cables before and after bridge deck overlay was applied along with other bridge repairs.

BDI utilized visual inspection and the Taught Cable Vibration Method (TCVM) to transform cable vibration frequencies into tension forces. Cable tension through TCVM is normally a simple process but additional instrumentation and calculations were performed to account for cable end conditions and catenary curve effects. Accelerometers were temporarily installed at multiple cross-sections along the stay cables to verify mode shapes and effective lengths and they were oriented in both the horizontal and vertical transverse axes to completely capture the modal characteristics. Ambient vibration due to activity on the bridge deck was sufficient to obtain accurate acceleration measurements. These measurements were then converted to the frequency domain and cable tension were computed from the modal frequency values, verified effective cable lengths, and provided cable unit weight. These results were used by C.E.C. and DOTD to verify additional load applied to the deck was distributed in as expected and that the cable tensions were within design tolerances. Two mobilizations were performed, one before the start and one after the completion of construction. Field work for each mobilization was performed during two nightshifts to minimize impact on traffic. Access to the cables was performed with an aerial lift provided by C.E.C. Data was reported in accordance with AASHTO and NBIS standards and on BDI's website for ongoing monitoring.

Relevance: ***This project illustrates BDI's technical capabilities to evaluate condition and existing stress states of cable-stayed bridges.***

Key staff who supported this project: Brett Commander (MPR1-2) – Principal Engineer & QC, Brice Carpenter (MPR4) – Inspection and Instrumentation Engineer.

Firm name	**Engineering Operations, LLC**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	Louisiana Department of Transportation & Development IDIQ Contract for Underwater Bridge Inspection		Firm responsibility (prime or sub?)		Sub
Project number	4400019121 & 4400019122	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana		Owner's Project Manager	Hayley Brown, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana – 225.379.1500 – haylye.brown@la.gov				
Services commenced by this firm (mm/yy)	08/20	Total consultant contract cost ($1,000's)			$6,000
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm ($1,000's)			$1,084

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

eO is a sub-consultant to Moffatt & Nichol who was selected to perform underwater inspections for the Louisiana Department of Transportation and Development (LaDOTD). eO was also a sub-consultant to Moffatt & Nichol on the previous cycle of this contract, and the eO staff has performed hundreds of underwater inspections across the state of Louisiana. These inspections included bridges at major river crossings, including numerous bridges crossing the Mississippi River, and structures over many minor waterways located throughout the state. All inspections were performed in accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and Transportation Officials (AASHTO) Manual for Bridge Element Inspection. Inspection procedures specific to each site were developed and recorded in the inspection reports in accordance with the National Bridge Inspection Program (NBIP) Metric 17. Reports for each inspection were created in LaDOTD's asset management and inspection program, InspectX (formally AssetWise), and submitted for client review within 60 days of the inspection date. Reports included descriptions of overall bridge condition and detailed descriptions of deterioration including dimensions and photographs. Underwater acoustic imaging (UAI) was performed at major river crossings to supplement the dive inspections and to increase diver safety by identifying potential hazards before divers entered the water. Both commercial SCUBA and surface supplied air (SSA) diving were utilized for these inspections, and all dive operations were performed in accordance with ADCI standards, including appropriate staffing constraints and training requirements. When appropriate, resistographs were utilized to assess timber pile decay, and steel section loss was measured using underwater ultrasonic thickness gauges. eO has developed a close working relationship with Moffatt & Nichol and is able to seamlessly integrate into Moffatt & Nichol led teams or operate as an independent inspection team as needed.

Key staff members included the project principal (Benjamin Kenney – MPRs 4, 8), project manager (Taylor White – MPRs 4, 8), deputy project manager (Samuel Williams – MPRs 4, 8, 10), inspector/diver (Aaron Richardson – MPR 4)

Firm name	**Engineering Operations, LLC**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Colorado Department of Transportation – On & Off-System Bridge Inspections		Firm responsibility (prime or sub?)	Prime	
Project number	#21-HAA-XB-00033	Owner's name	Colorado Department of Transportation		
Project location	Statewide Colorado		Owner's Project Manager	Andrew Brown	
Owner's address, phone, email	2829 W Howard Pl, Denver, CO 80204 - (303) 512-4172 - andrew.brown@state.co.us				
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost ($1,000's)		$9,000	
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm ($1,000's)		$4,504	

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

As part of a 5-year retainer contract, eO performs as a prime inspection consultant for all off-system bridges and culverts throughout the northern region of Colorado. The structures include a variety of steel, concrete, and timber components with routine NBIS, initial, special, in-depth and NSTM (fracture critical) bridge inspections. Detailed inspection reports, including NBI and element level data and coding, recommendations, sketches, and streambed profiles are prepared for each inspection. In addition, load ratings are performed for all initial inventory and structures are re-rated when changes in structural condition, geometry, or increases in asphalt are found. Depending on the age of construction, both LFR and LRFR rating methods are utilized through a variety of load rating and analysis programs, including BrR, CANDE, Plank, Winbeam, and Slab. eO has performed load ratings for double tee girders, prestressed girders, built-up steel arch girders, box culverts, metal arch culverts, and corrugated metal deck structures, among others. On the first task order, we performed 767 Routine Inspections, 13 Initial Inspections, 13 NSTM Inspections, and 32 load ratings between September 2021and July 2022. Additionally, the eO team performed scour evaluations for all initial inventory to code Scour Critical Item 113, and each bridge is assessed to determine whether a scour coding change is warranted based on the structures' scour history, foundation type, and/or rehabilitation. Many structures routinely have high or swift water conditions, occasionally leaving the substructures uninspected for several cycles. As CDOT's sole prime underwater inspection consultant, our team was able to ensure no substructures were left uninspected due to these conditions. Utilizing either wetsuits or drysuits, our team was able to complete all routine inspections in one visit, or if warranted, we completed the inspection with a full ADCI underwater inspection team within the following weeks. eO is responsible for coordinating with the CDOT project manager and all City and County bridge owners. Repair Letters or Critical Inspection Findings are sent to the local owners when structural or safety related deficiencies require prompt or immediate action, and each local owner is provided a presentation after inspections to review findings and recommendations. eO is also involved with the development team for CDOT's new inspection app and asset management program SIMSA.

Key staff members included the project principal (Benjamin Kenney – MPRs 4, 8), project manager (Taylor White – MPRs 4, 8), deputy project manager (Samuel Williams – MPRs 4, 8, 10), inspector/diver (Aaron Richardson – MPR 4)

Firm name	**Engineering Operations, LLC**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Arkansas Department of Transportation Underwater Bridge Inspections		Firm responsibility (prime or sub?)	Prime	
Project number	012387	Owner's name	Arkansas Department of Transportation		
Project location	Statewide Arkansas		Owner's Project Manager	Kevin Weston, PE	
Owner's address, phone, email	10324 Interstate 30, Little Rock, AR 72209 - (501)569-2658 – kevin.weston@ardot.gov				
Services commenced by this firm (mm/yy)		07/21	Total consultant contract cost ($1,000's)		$2,053
Services completed by this firm (mm/yy)		05/24	Cost of consultant services provided by this firm ($1,000's)		$1,784

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

As part of a three-year retainer contract, eO was the sole prime consultant selected to perform underwater inspections for the Arkansas Department of Transportation (ArDOT), with Moffatt & Nichol as a sub-consultant. eO performed 137 underwater inspections, which included bridges at major river crossings, deep water reservoirs, and structures over many minor waterways located throughout the state. All inspections were performed in accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and Transportation Officials (AASHTO) Manual for Bridge Element Inspection. Inspection procedures specific to each site were developed and recorded in the inspection reports in accordance with the National Bridge Inspection Program (NBIP) Metric 17. Reports for each inspection were created in ArDOT's asset management and inspection program, InspectX, and submitted for client review within 30 days of the inspection date. Reports included descriptions of overall bridge condition and detailed descriptions of deterioration including dimensions and photographs. Each inspection report included CADD drawings created in MicroStation that included bathymetric contour maps and profiles that showed channel elevations along the upstream and downstream fascia of the bridge relative to the elevations of the substructure units. The bathymetric contour maps included aerial drone image overlays giving a day-of-inspection view of channel conditions at each bridge site that will be utilized to monitor streambed migration during future inspections. Underwater acoustic imaging (UAI) was performed at major river crossings to supplement the dive inspections and to increase diver safety by identifying potential hazards before divers entered the water. Both commercial SCUBA and surface supplied air (SSA) diving were utilized for these inspections, and all dive operations were performed in accordance with ADCI standards, including appropriate staffing constraints and training requirements. This included the use of a hyperbaric chamber at four bridges that had piers located at depths exceeding 100-ft and at three bridges that cross the Mississippi River. The staffing and equipment used on this project was primarily provided by eO's Louisiana Office, which serves as a hub for many of eO's underwater inspection projects across the country.

Key staff members included the project principal (Benjamin Kenney – MPRs 4, 8), project manager (Taylor White – MPRs 4, 8), deputy project manager (Samuel Williams – MPRs 4, 8, 10), inspector/diver (Aaron Richardson – MPR 4)

Firm name	**Forte & Tablada, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Retainer Contract for Off-System Complex Bridge Load Rating – TO1		Firm responsibility (prime or sub?)	Prime	
Project number	S.P. No. H.009859.5	Owner's name	LADOTD		
Project location	Statewide, LA		Owner's Project Manager	Dana Feng, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1200, Dana.Feng@LA.gov				
Services commenced by this firm (mm/yy)	1/18	Total consultant contract cost ($1,000's)		$1,316.8	
Services completed by this firm (mm/yy)	2/19	Cost of consultant services provided by this firm ($1,000's)		$1,136.4	

As part of a Load Rating retainer contract with LADOTD, Forte and Tablada was tasked with inspecting and load rating 12 complex off-system complex bridges statewide. The type of bridges included nine (9) movable bridges (including vertical lift and swing-spans), a steel truss bridge, and two (2) ferry access bridges that were composed of steel truss, movable, and pontoon spans. Where existing plans were not available, 3-D laser scanning was utilized to capture complicated geometry and to assist in the load rating and in the development of bridge load rating plans. The inspection also included the use of an ultrasonic thickness gage to verify member thickness, as well as detailed measurements using laser scan data to determine connection details. The scope of work also included the submittal of an Inspection Report and a Load Rating Report in accordance with the requirements of the LADOTD Bridge Design and Evaluation Manual (BDEM).

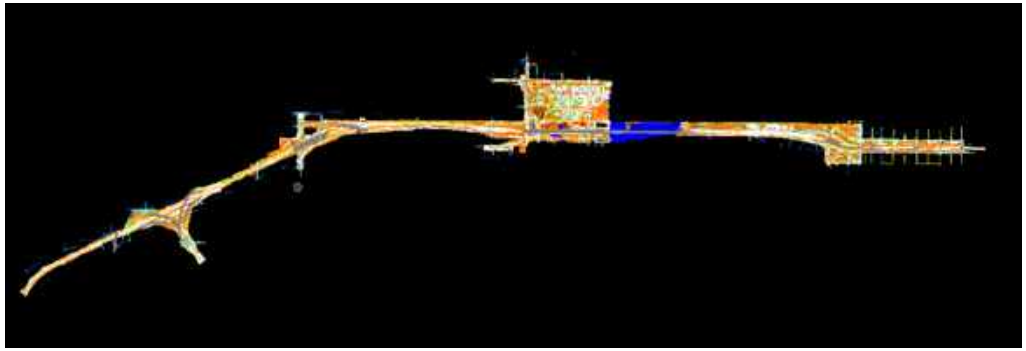
Project Team: Joffrey Easley, P.E. (MPR 4) - Project Manager; Jason Levi Yantis, P.E. (MPR 4) – Bridge Inspector

Firm name	**Forte & Tablada, Inc.**		Past Performance Evaluation Discipline(s)*		Bridge / Survey	
Project name	Amite River Basin Model-Hydrographic Survey			Firm responsibility (prime or sub?)	Sub	
Project number	4400008293	Owner's name	LADOTD			
Project location	Livingston Parish, LA		Owner's Project Manager	Edward Knight, P.E.		
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, 225-379-3007, edward.knight@la.gov					
Services commenced by this firm (mm/yy)	6/17	Total consultant contract cost ($1,000's)			$349	
Services completed by this firm (mm/yy)	2/19	Cost of consultant services provided by this firm ($1,000's)			$349	

Forte and Tablada, Inc. worked with LA DOTD and Dewberry to provide hydrographic surveying of the Amite River and Comite River. Task orders included typical cross-sections of these rivers, as well as detailed 3-D bathymetric data collected with sonar equipment. Forte and Tablada also provided ground control for LiDAR of the Amite River Basin. Notably, Forte and Tablada provided a high-resolution survey of the Amite River Diversion Weir utilizing a variety of techniques including multibeam sonar and traditional survey methods. The largest challenge for this project was the varying water depths of the Amite and Comite River, which prevented the use of a single type of data collection system. Forte and Tablada was able to overcome this challenge through the multiple types of data collection systems within its inventory. A wide swath multi-beam sonar unit was used to collect data remotely into shallow water areas, single-beam sonar equipment was used to confirm the results of the multi-beam areas as well as collect bathymetry data in water less than 2 feet deep. LiDAR laser scanners were used on bridge structures to give a seamless representation of the underwater conditions as well as above water conditions for a precise bridge opening area. The image depicts the seamless merging of these two data sets collected utilizing two different types of data collection systems.

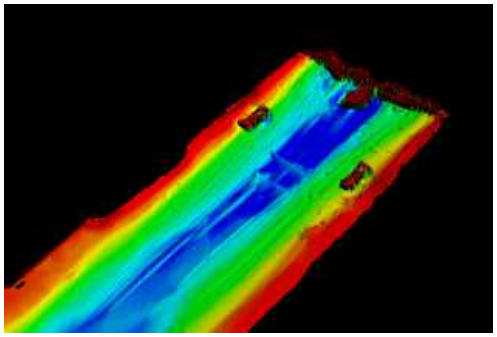
Project Team: Joffrey Easley, P.E. (MPR 4) - Project Manager; Jason Levi Yantis, P.E. (MPR 4) – Bridge Inspector

Firm name	**Forte & Tablada, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Survey	
Project name	Calcasieu River Bridge (HBI)		Firm responsibility (prime or sub?)	Prime	
Project number	H.003931	Owner's name	LADOTD		
Project location	Calcasieu Parish, LA		Owner's Project Manager	Barrett Smith, P.L.S.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1292, Barrett.Smith@la.gov				
Services commenced by this firm (mm/yy)	5/21	Total consultant contract cost ($1,000's)		$4,282	
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)		$4,282	



Forte and Tablada's Survey for the Calcasieu River Bridge.

Forte and Tablada completed this survey comprised of four task orders under multiple IDIQ Contracts for Professional Surveying Services for LADOTD. Spanning approximately 7 miles, it involved a comprehensive topographic survey of interstate I-10, the I-10 Bridge over the Calcasieu River, and the Calcasieu River Ship Channel, with much of the work conducted within a high-traffic industrial area. Our team established primary survey control, including deep rod monuments meeting National Geodetic Survey standards, to ensure accurate data collection. We conducted a comprehensive topographic survey that met LADOTD On-System survey standards, utilizing conventional, terrestrial LiDAR, and Mobile LiDAR survey methods to minimize risks to field crews. Particularly, LiDAR survey methods enabled detailed capture of deck and substructure features of multiple bridges. Additionally, we performed a multibeam hydrographic survey of the channel, adjacent water bodies, and canals within the project limits, which included identifying existing bridge substructures, fender systems, and debris, complemented by a magnetometer survey. Services also encompassed producing an existing drainage map covering the survey area and a half-mile perimeter beyond, as well as utility surveys assisted by a Subsurface Utility Engineer's utility locations. The project's magnitude necessitated the mobilization of up to 6 crews, demonstrating Forte and Tablada's capability to efficiently execute large-scale topographic survey tasks within tight project timelines.



Project Team: Brad Holleman, P.L.S., P.E., (MPR 11) Supervising P.L.S.

Firm name	**Moffatt & Nichol, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	IDIQ Contracts for In-Depth Bridge Inspection		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400023512	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana		Owner's Project Manager	Stephanie Doolittle, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225-379-1500, stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	06/22	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	06/27	Cost of consultant services provided by this firm ($1,000's)		$ 276 (to date)	

Moffatt & Nichol (M&N) is part of a team performing in-depth inspections of complex and movable bridges statewide utilizing an indefinite delivery/indefinite quantity contract. In addition to the current contract, M&N has served as a subconsultant on two previous five-yr-long retainer contracts to different prime consultant firms (4400013321 & 4400013322). Under all three contracts, all statewide inspections of in-service bridges have been completed in accordance with FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and LADOTD Bridge Inspection Manual (BIM), as needed. NBIS inspection types typically include in-depth with NDE, routine, & NSTM with optional underwater, damage, & special inspections. Structure types include cantilever trusses, cable-stayed bridges, steel vertical lift bridges, & plate girder bascule bridges. Tasks primarily include providing bridge inspections along with specialty access techniques such as SPRAT/rope access, UAS/drones, & ADCI/diving. Comprehensive in-depth reports included a detailed summary of rope access inspection methodology, inspection findings of current conditions & noted deficiencies, field notes, photographs & video, bridge element ratings, quantity verifications, and quality assurance reviews. Representative tasks include:

RELEVANCE TO LADOTD

- ✓ DOTD bridge program experience
- ✓ Statewide NBIS/SNBI in-depth inspection of complex structures
- ✓ NBIS underwater bridge inspection policies
- ✓ Conformance with AASHTO MBE, NBIS, & LADOTD BIM
- ✓ Coasting system assessment & ultrasonic testing of fracture critical truss pins, pin assemblies, etc.

John James Audubon (LA 10) Cable-Stayed Bridge, Ventress - M&N has completed its third consecutive inspection to perform routine and in-depth NBIS inspection of 1,583-ft-long cable stayed portion of this bridge consisting of three spans with 136 main cables and two 405-ft-tall concrete suspension towers (two legs per tower).

Hale Boggs Memorial (Interstate 310) Cable-Stayed Bridge over the Mississippi River, Luling – M&N is scheduled to complete their second in-depth and routine inspection of all bladders at the upper Gensui Dampers and at the lower friction dampers at 72 cables. Professional rope access is used to safely access each cable within arm's reach.

Horace Wilkinson (Interstate 10) Bridge over Mississippi River, Baton Rouge – M&N is on its third consecutive inspection to perform in-depth, routine & fracture critical NBIS inspection of main truss spans. Professional rope access techniques were used to safely access each non-redundant steel tension member within arm's reach. The inspection team is evaluating previous deficiencies and ratings for a worsening condition or a rate of deterioration to properly schedule and advise repairs as needed. These inspections no longer need a lane closure while maintaining a high level of safety for the inspection team and the traveling public. Similar long span cantilever truss, through truss, deck truss, and steel arch truss bridges include:

- **Greater New Orleans (US 90) Bridges over Mississippi River, New Orleans**
- **US 190 (Huey P. Long) Bridge over the Mississippi River, Baton Rouge**
- □ **Green Bridge over Mississippi River-Gulf Outlet Canal, New Orleans**
- □ **Interstate 10 Bridge over Calcasieu River, Lake Charles**

Indian Village (LA 30665) Swing Span Bridge over Plaquemine Bayou, Iberville Parish – M&N performed complete in-depth inspection of this 302 ft long, two-lane structure with 10 spans, which included mechanical & electrical systems; examined general operation, open gearing, speed reducers, shafts, shaft bearings/shaft couplings, hydraulic power units, hydraulic piping system, hydraulic cylinders/motors/rotary actuators, machinery base, access ladder/platforms, balance wheel, tracks, and barriers. Similar swing span movable bridges include:

- **Little Caillou Road (LA 56) Swing Span Bridge over Boudreaux Canal, Chauvin**
- **Bayou Grosse Tete (LA 77) Swing Span Bridge over ICWW, Plaquemine, Iberville Parish**
- □ **Convent Street Swing Span Bridge over Bayou Teche, Charenton**

LA 8 Segmental Bridge over Red River, Boyce – topside inspection of approach spans, bridge approaches, external portions of segmental precast concrete box girder bridge, and general site. A non-permit confined space entry was completed via the alternative method consisting of ventilation and continual air monitoring.

Key personnel: Chase Hulon (MPR 4, 9, 10), Bryan Tyson (MPR 4), C. Balzarini (MPR 5), M. Balzarini (MPR 5), Clint Harr (MPR 9)

Firm name	**Moffatt & Nichol, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Bridge Insp Manual Update 2022 (IDIQ for Bridge Inspection Services, Statewide)		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400023512	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana		Owner's Project Manager	Stephanie Doolittle, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225-379-1500, stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	12/24	Cost of consultant services provided by this firm ($1,000's)		$ 199	

RELEVANCE TO LADOTD

- ✓ DOTD bridge program experience & understanding
- ✓ FHWA QA metric responsibility
- ✓ NBE and SNBI ratings

Bridge Inspection Manual Update 2023-2024. Following the BIM publication, M&N is leading the development of major updates to the LaDOTD Bridge Inspection Manual, a separate Off-System Directive, and the development of the Coding and Field Guide in accordance with Department policy updates, the 2022 NBIS Final Rule publication, and the SNBI publication. Project involves five tasks – project management, progress meetings, technical research/writing, QC review, and rollout presentations/training. A team of subject matter experts contributed to the development and reviews at periodic milestones. M&N is collaborating with the LaDOTD staff throughout the development to manage expectations and maintain direction. In-person progress meetings occurred monthly that included various District Bridge Engineers throughout the state. The manual is compliant with the NBIP Program (23 Metrics and the 3 New Metrics). The publications will be thoughtfully organized, systemically sequenced, and interactively navigable with an appendix to store all vital forms for the Bridge Inspection Program. Following delivery, acceptance, and publishing, a training module will be designed and delivered to all LaDOTD District personnel. M&N has been retained for five years to provide annual updates as needed.

Under a previous contract directly with LADOTD (4400009104), Moffatt & Nichol developed the first comprehensive Bridge Inspection Manual (BIM) for the Louisiana Department of Transportation & Development (DOTD) Bridge Program (completed in 2020). The BIM consolidated all previous policies, directives, memorandums, manuals, and forms into a single, centralized reference manual as well as aligned the goals of the Bridge Inspection Office Headquarters with those of all nine DOTD Districts. The Manual fostered better communication and quality management between the DOTD project managers, their consultants, and local bridge owners. It was designed to be used electronically as a reference file which could be stored on field tablets making it accessible to all DOTD bridge inspection team leaders. The BIM included nine chapters that were sequenced to reflect the stages of a bridge inspection project and included hyperlinks throughout for quick reference to vital documents.

Key personnel: Chase Hulon (MPR 4, 9, 10), Bryan Tyson (MPR 4)

Firm name	**Moffatt & Nichol, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Underwater Bridge Inspections, Statewide		Firm responsibility (prime or sub?)	Prime	
Project number	4400003533, Task Order 2	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana		Owner's Project Manager	Heather Deare, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225-379-1306, Heather.deare@la.gov				
Services commenced by this firm (mm/yy)	06/22	Total consultant contract cost ($1,000's)		$2,402	
Services completed by this firm (mm/yy)	08/25	Cost of consultant services provided by this firm ($1,000's)		$1,419 (to date)	

Moffatt & Nichol is currently working on its third consecutive retainer contract with LADOTD to perform underwater bridge inspections throughout Louisiana. M&N provides Level I, II, and III inspections of submerged bridge components in accordance with FHWA (Federal Highway Administration), BIRM (Bridge Inspector's Reference Manual), AASHTO MBE (American Association of State Highway and Transportation Officials, Manual for Bridge Evaluation), AASHTO BEIM, the LADOTD Bridge Inspection Manual, current NBIS and SNBI requirements. This second task order consists of 476 bridges of all types, including small to mid-sized waterways along with 9 bridges passing through large swamps and bayous that vary between 3 and 22 miles long (I-55 Manchac Bridges), 15 culverts, and 4 bridges crossing over large waterways (Mississippi River, Prien Lake, and Whiskey Bay Channel). Underwater bridge inspections also included movable swing span, vertical lift and bascule bridges, timber trestle bridges, and signature bridges with deep caissons. Project also includes the inspection of culvert inspections consisting of concrete boxes and corrugated metal pipes; these have been access using both Remotely Operated Vehicles (ROVs) and surface supplied divers. M&N has been able to efficiently inspect these bridges using a combination of shore entry, small to mid-sized boats with low profiles, and larger 25-30 ft work boats completing all inspections on or ahead of schedule.

RELEVANCE TO LADOTD

- ✓ NBIS underwater bridge inspection
- ✓ Acoustic imaging
- ✓ NBE and BME ratings

M&N has safely performed underwater dive inspections and emergency damage assessments while augmenting 2D and 3D SONAR technologies and adhering to the National Bridge Inspection Standards. The M&N dive team captures images and bathymetric data utilizing high-resolution side scan SONAR units and multibeam sonar technology. High-resolution images and point cloud data of bridges piers/bents are collected in high-risk environments to identify channel bottom conditions and structural deterioration. Scour evaluations (inherent to underwater bridge inspections) are vital to the inspection and report process. All inspector-divers and UAI technicians are trained to observe soundings near submerged substructure units, channel migration/alignment, bank erosion, channel bed material, condition of scour protection structures and channel training devices, flow velocity, timber debris quantity and location, major changes in watershed and hydraulic capacities from upstream development and construction; and to review all conditions in real-time on site to establish a rate of scour and erosion for effective prioritization of repairs and development of scour POA's for monitoring.

M&N's underwater bridge contracts have involved:

- **IDIQ Contract for Underwater Bridge Inspection (Contract No. 440001921), Statewide**. Under this active contract, M&N is scheduled to provide underwater inspection on more than 838 bridges located throughout the state. Dates are August 2020 – August 2025
- **Retainer Contract for Underwater Bridge Inspection (Contract No. 4400009104), Statewide.** M&N provided underwater inspection on more than 668 bridges located throughout the state. Dates were June 2017 – May 2021.
- **Retainer Contract for Underwater Bridge Inspection with the Majority of the Work in Districts 03, 07, & 61 (Contract No. 4400003533).** M&N provided underwater inspection on more than 506 bridges located primarily in LADOTD Districts 06, 07, & 61. Dates were September 2013 – September 2018

Key personnel: Chase Hulon (MPR 4, 9, 10), Bryan Tyson (MPR 4), C. Balzarini (MPR 5), M. Balzarini (MPR 5), Clint Harr (MPR 9)

Firm name	**KTA-Tator, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Krotz Springs Bridge		Firm responsibility (prime or sub?)	Sub	
Project number	4400025311 task order	Owner's name	LADOTD (Hardesty & Hanover, LLP – prime consultant)		
Project location	St. Landry Parish, LA		Owner's Project Manager	Babak "Bobby" Naghavi, PE, PH, PhD – Hardesty & Hanover	
Owner's address, phone, email	3850 N. Causeway Blvd, Suite 1625, Metairie, LA 70002 504-605-7940 bnaghavi@hardestyhanover.com				
Services commenced by this firm (mm/yy)	02/24	Total consultant contract cost ($1,000's)		$5,000	
Services completed by this firm (mm/yy)	04/24	Cost of consultant services provided by this firm ($1,000's)		$12	

The Krotz Springs Bridge is owned and operated by LADOTD. The bridge was constructed in 1973 and consists of eastbound and westbound structures. Each bridge carries two lanes of vehicle traffic over the Atchafalaya River in Krotz Springs, Louisiana. The bridges consist of a 3-span truss main span that measures 780 ft. The coating history indicates that the westbound bridge was last coated in December of 2017 and the eastbound bridge was last coated in May of 2016, both with a coating system consisting of a zinc epoxy primer, epoxy intermediate, and urethane finish.

In September 2023, as a subconsultant to Hardesty & Hanover, LLP, KTA performed a coating condition assessment on both structures. The purpose of this assessment was to determine the coating of the existing coatings on the structure in order to develop a maintenance painting strategy for the bridge.

A visual assessment of the coated surfaces was conducted to determine the type, extent, and location of coating breakdown and corrosion on the structure. Coating thickness, number of coats, and adhesion were determined using appropriate instrumentation. Samples were removed for further laboratory examination to determine if toxic metal concentrations were present in the existing coatings and to generically identify the coating type. Photographs of typical coating conditions were taken. The results of the field and laboratory testing, a discussion of those results, and photographs were included in a report prepared and submitted to Hardesty & Hanover.

Key Personnel: Robert Lanterman (MPR6)

Firm name	**KTA-Tator, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Jackson Street (Red River) Lift Bridge		Firm responsibility (prime or sub?)	Sub	
Project number	4400013322, TO #1	Owner's name	LADOTD (Gresham, Smith Partners – GSP – prime consultant)		
Project location	Alexandria, LA		Owner's Project Manager	John Weres, PE, GSP	
Owner's address, phone, email	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810 225-960-5480 john.weres@greshamsmith.com				
Services commenced by this firm (mm/yy)	02/20	Total consultant contract cost ($1,000's)		$5,000	
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm ($1,000's)		$11	

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

The Jackson Street (Red River) Lift Bridge in Alexandria, Louisiana carries two lanes of traffic over the Red River. The main span is a through truss design with a 300' vertical lift span centered between the two towers.

Under Gresham Smith's task order agreement with LADOTD, KTA completed a coating condition assessment of this bridge. The coating condition assessment was conducted on February 18 and 19, 2020. The purpose of this assessment was to determine the coating of the existing coatings on the structure in order to develop a maintenance painting strategy for the bridge.

A visual assessment of the coated surfaces was conducted to determine the type, extent, and location of coating breakdown and corrosion on the structure. Coating thickness, number of coats, and adhesion were determined using appropriate instrumentation. Samples were removed for further laboratory examination to determine if toxic metal concentrations were present in the existing coatings and to generically identify the coating type. Photographs of typical coating conditions were taken. The results of the field and laboratory testing, a discussion of those results, and photographs were included in a report prepared and submitted to Gresham Smith. A discussion of various maintenance painting options was presented along with recommendations for the maintenance painting of this structure.

KTA Personnel: Robert Lanterman (MPR6)

Firm name	**Gresham Smith**		Past Performance Evaluation Discipline(s)*	Bridge / Data Collection	
Project name	Complex Bridge Inspections IDIQ – Major River Crossings		Firm responsibility (prime or sub?)	Prime	
Project number	4400013322 – Various Task Orders	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana		Owner's Project Manager	Haylye Brown	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1205 / haylye.brown@la.gov				
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost ($1,000's)		$2,700	
Services completed by this firm (mm/yy)	1/24	Cost of consultant services provided by this firm ($1,000's)		$1,800	

Major River Crossings: Major complex inspections for river crossings inspected by the Gresham Smith team included LA 1 Truss over Atchafalaya River, the LA 8 Concrete Segmental Bridge in Boyce, and in 2022, Gresham Smith led the in-depth inspection of the I-20 Mississippi River Bridge in Vicksburg.

For the I-20 Mississippi River Bridge at Vicksburg, a variety of access and inspection techniques were utilized. The team utilized rope access for a majority of the truss structure. For the mile long approach spans, a manlift was utilized for the western portion and manual and boat access was also utilized. Lane restrictions for a UBI vehicle were restricted to weekends only and the UBI was utilized to access the large steel girders. Drone inspections was utilized to supplement the hands-on inspections. Fatigue prone details were evaluated, including crack penetration testing.

For the LA 8 Concrete Segmental Bridge in Boyce, a UBI was utilized to inspect the exterior of the boxes, while a confined space inspection was conducted for the interior of the boxes. The confined space inspection plan addressed ventilation, lighting, and emergency response and rescue plans.

Key Personnel: John Weres (MPR 4), Yun Lin (MPR 4), Courtney Rome (MPR 4), Russell Childs (MPR 4), Ryan Horn (MPR 5), Jackson Hartley (MPR 5).



Firm name	**Gresham Smith**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	Complex Bridge Inspections IDIQ – Movable Bridges, Routine QC Inspections, and Emergency Repairs		Firm responsibility (prime or sub?)		Prime
Project number	4400013322 – Various Task Orders	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana		Owner's Project Manager	Haylye Browne	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1205 / haylye.brown@la.gov				
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost ($1,000's)		$2,900	
Services completed by this firm (mm/yy)	1/24	Cost of consultant services provided by this firm ($1,000's)		$1.700	

Movable Bridges: Our Gresham Smith team inspected eight moveable bridges including full structural, mechanical, and electrical inspections. These structures included US 165B Vertical Lift Bridge over Red River, steel plate girder swing spans over Bayou Teche and Boudreaux Canan, and steel truss swing spans over Bayou Teche

Routine QC Inspections: Our most recent task order assignments included QC type inspections of over 90 timber and steel routing bridges in District 62. These inspections were completed to rectify quality control issues with past inspections and to establish a quality base inspection format for future inspections of these structures.

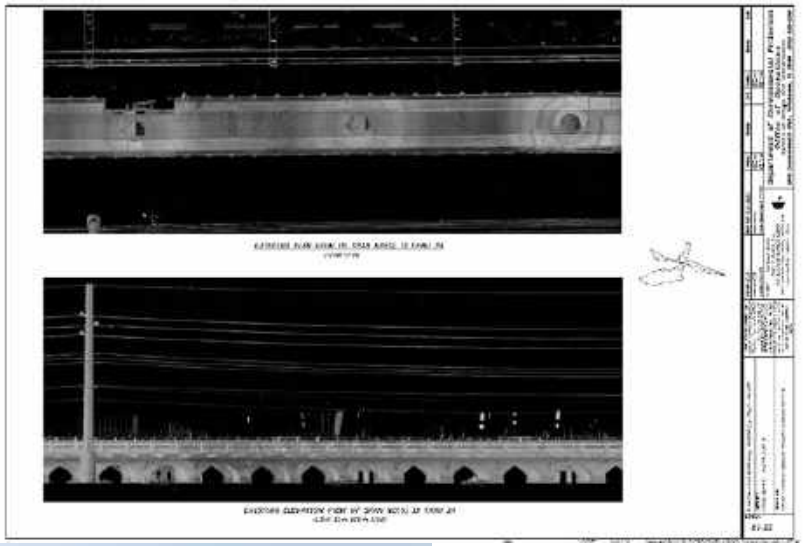
Emergency Repairs: When a train derailment critically damaged the US 71 bridge in downtown Shreveport, Gresham Smith was selected to perform an emergency evaluation of the damage and to design temporary supports and permanent repairs in order to preserve this historic structure. Gresham Smith worked closely with the DOTD and the selected contractor to expedite the design and reopen this major roadway in Shreveport, LA..

Key Personnel: John Weres (MPR 4), Yun Lin (MPR 4), Courtney Rome (MPR 4), Russell Childs (MPR 4), Ryan Horn (MPR 5), Jackson Hartley (MPR 5).

Firm name	**Gresham Smith**		Past Performance Evaluation Discipline(s)*		Bridge / Data Collection
Project name	Florida Keys Overseas Heritage Trail (FKOHT) – Bridge Evaluations		Firm responsibility (prime or sub?)		Prime
Project number	CN215 TA1 & TA2	Owner's name	Florida Department of Environmental Protection (FDEP)		
Project location	Monroe County, FL		Owner's Project Manager	Garland Sandel, P.E.	
Owner's address, phone, email	3900 Commonwealth Blvd., Tallahassee, FL 32399 / 850.245.2798 garland.sandel@floridadep.gov				
Services commenced by this firm (mm/yy)	3/21	Total consultant contract cost ($1,000's)		$600	
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)		$575	

Seven Mile Bridge and Bahia-Honda Bridge – Field Evaluations: The Florida Department of Environmental Protection (FDEP) selected Gresham Smith to evaluate the historic Seven Mile Bridge and Bahia Honda Bridge and provide preservation recommendations. Due to the age and condition of the bridges, standard access was precluded. Our team utilized drone technology and boat access to investigate and document the condition of these historic structures and to provide preservation recommendations along with replacement options. Ryan Horn, a licensed boat operator in Florida lead the navigation within the keys and supported the drone inspections.

Shark Channel Bridge – Field Evaluation and Preservation: Under a separate task order, Gresham Smith was selected to perform a field evaluation of the historic, 1,988'' concrete spandrel arch bridge new Key West Florida. Our team utilized kayaks to access around the piers and drone technology for the superstructure overhangs. Our team also incorporated LiDAR capture survey to scan the bridge structure. The LiDAR scans were then used to prepare a model for the preservation rehabilitation. Our team designed the preservation plans and prepared documents for bidding. Bids were received for the $6M preservation contract in June 2024 and construction is anticipated to be completed in late 2025.



Key Personnel: John Weres (MPR 4), Yun Lin (MPR 4), Courtney Rome (MPR 4), Russell Childs (MPR 4), Ryan Horn (MPR 5), Jackson Hartley (MPR 5).

18. Approach and Methodology:

I. Introduction to the Team:

BDI - Bridge Diagnostics, Inc. (BDI), working as a prime contractor for LADOTD under IDIQ Contract Nos. 440009224, 4400015262/4400017163, and 4400025002, has performed inspection and evaluation services throughout the state of Louisiana under 21 Task Orders (TO) over the last eight years. This work encompassed the ***inspection and evaluation of the superstructures and substructures*** of 2,090 structures with a contract value in excess of $11M. Additionally, under multiple subcontracts BDI has performed ***inspection and evaluation of multiple cable-stayed, suspension, truss, and moveable bridges in Louisiana beginning in 2010***. BDI is familiar with the TO process and will work with LADOTD to assist in scope development to ensure solutions are proposed to achieve LADOTD's needs. Additionally, ***BDI is committed to performing the majority of this work for LADOTD as the prime contractor*** and is excited to provide an unparalleled level of complex bridge inspections for this project. Outside of Louisiana, BDI has been performing inspection of complex bridges since its inception. Our proposed Principal Engineer (MPRs 1 and 2), Brett Commander, has 36 years of experience of inspection, performance, and condition assessment of complex structures under normal service conditions as well as extreme load and environmental situations. BDI is currently under contract to perform complex bridge inspection through its prime contracts for Virginia DOT and the USACE Walla Walla district (Pacific Northwest) as well as being a subcontractor to assist in the complex bridge inspections, load tests, and load ratings in FL, CO, TX, ID, MT, and UT. In short, ***BDI has performed complex bridge inspections throughout the US.*** BDI can respond to emergency situations with local personnel mobilizing from Baton Rouge and Metairie, LA.

BDI Team - BDI has assembled a team of professionals with extensive experience performing complex and underwater bridge inspections for LADOTD. The Team of Engineering Operations (eO), Forte & Tablada, Moffat and Nichol, KTA-Tator (KTA), and Gresham Smith have all worked for LADOTD performing routine, underwater, in-depth, and fracture critical inspections (NSTM) of cable-stayed, suspension, truss, and moveable bridges both in LA and throughout the US.

The BDI Team can perform and has past performance in all the requested services identified in the Advertisement for Contract Nos. 4400029683, 4400029684, and 4400029685 including, but not limited to, NBIS/SNBI in-depth inspections of complex structures that include cable-stayed, suspension, truss, moveable, and other bridge types as assigned by LADOTD.

II. Task Order Development:

Definition of Objectives - Upon reception of a complex bridge inspection assignment, BDI will identify the specific needs of each of the inspections to determine its purpose, objectives, and inspection type. The goals and needs of each inspection will conform to the requirements provided in the NBIS, SNBI, and LADOTD Bridge Inspection Manual and their individual upcoming inspection intervals.

Scope and Schedule - As part of any of its complex bridge inspection program, BDI performs the general activities for any project with a specified scope and schedule. BDI will work with LADOTD to structure the schedule of each inspection according to the provisions of the NBIS, SNBI, and the LADOTD Bridge Inspection Manual depending upon the required date of next inspection, and the specific scheduling requirements for each type of inspection being performed (routine, underwater, NTSM, or other in-depth inspection of complex structures). ***Mr. Charles Young, BDI's proposed Project Manager (MPR3) for this work, will work closely with LADOTD and the Team during the scope and schedule development and all aspects of the work to ensure a safe and high-quality deliverable*** for each of these complex bridge types.

Staff/Team Selection - BDI will assemble a team to complete each task order according to the specific nature of the bridges to be inspected and the types of inspections to be conducted. Routine and fracture critical (NSTM) inspections will be performed by BDI and supplemented with additional subcontractors if necessary. BDI's team consists of subcontractors capable of supporting BDI's existing ropes access program and performing underwater inspections, coating inspections, inspection of machinery and components related to movable structures, and advanced surveying methods. Additionally, BDI has the capabilities of supplementing visual inspections with a comprehensive suite of concrete and steel nondestructive evaluation and testing methods, along with material sampling and testing approaches for advanced diagnostics. For all inspections, roles and responsibilities will be assigned pursuant to NBIS and LADOTD standards including a qualified program manager, team leaders, and inspectors. BDI has an internal SPRAT Level III ropes access program which has been deployed across the US and in Louisiana and has specifically added eO and Moffat and Nichol for their ***expertise in ropes access and complex bridge inspection*** to supplements BDI's existing ropes access program.

Moffat and Nichol and eO will also play an integral part in the Team's inspection activities in the event that an underwater inspection or underwater imaging is required. While BDI will lead the management and reporting for these activities, Moffatt and Nichol and eO will implement their ***expertise in NBIS underwater inspection*** to ensure the same level of safety and quality deliverable. KTA-Tator brings a certified SSPC Protective Coating Specialist and certified NACE Bridge Coating Inspector to the Team and will be utilized to determine the condition of any existing coating systems as necessary. While BDI has performed surveying work in house for LADOTD under Contract No. 440009224, the Team will utilize the expertise of Forte & Tablada for professional land surveying and associated ***hydrographic and topographic surveying as required for bridge clearance and alignment verification***. Forte & Tablada also bring LiDAR technology, underwater acoustic surveying, unmanned aerial vehicles (UAV) photogrammetry expertise to the house provide additional value proposition to LADOTD as part of the BDI Team. A unique aspect of the BDI Team's NBIS/SNBI bridge inspection program, in addition to the highly skilled and certified inspection experts, is the way in which these technologies are strategically and sequentially performed to deliver quantitative data sets to the client for improved asset management. While BDI fully intends to meet the requirements of the ***AASHTO Manual for Bridge Evaluation, the NBIS, the SNBI, and the LADOTD Bridge Inspection Manual***, we will also work with LADOTD to implement these technologies where appropriate to improve the efficiency, effectiveness, safety, and quality of all inspections and subsequent deliverables.

Budget – With the objective, scope, schedule, and staffing selections defined, BDI will identify other necessary resources and develop a budget to provide a technical and cost proposal to LADOTD.

III. Pre-Inspection Preparation:

Before beginning each inspection, BDI will review previous inspection reports, as-built plans, shop drawings, maintenance records, and/or other available documentation to prepare an inspection plan for each bridge, identifying any complex components of the structure that will require special attention. BDI will coordinate all safety related and field-testing activities, develop the field-testing plan, traffic control plans, access types, develop the job hazard analysis (JHA) and other safety related documents, procedures, and protocols, and work with the chosen field crew to inspect the bridge.

Traffic impedance to the traveling public will be minimized wherever possible using rope access techniques and UAV (drone) inspections, as described above. When traffic control is necessary, ***BDI is compliant with the work zone requirements of this project*** as it currently working under contract 4400025002, but it ***will manage all traffic control operations and procedures as necessary to facilitate all inspection and testing under this Contract.*** When necessary, BDI will submit a Traffic Control plan to the appropriate LADOTD District for review and approval. BDI will specify ***and plan to provide all inspection, NDE, and bridge access equipment for all inspections.*** For moveable structure inspection, BDI will work with LADOTD to develop the specific field-testing plans and perform the inspection during off peak traffic hours for events when the structure needs to be moved for inspection. BDI will work with Team member Gresham Smith and utilize its expertise in moveable structure inspection.

IV. Inspection Execution

Following the pre-inspection preparation, BDI will execute the testing plan. Inspectors will use ruggedized tablets to collect data using the InspectX platform such that the data, ***including element level inspection data for various element types, defects, and condition states***, will be automatically logged and will ease the reporting and ***uploading of all data in the LADOTD InspectX asset management program***. If there are ***any areas of corrosion, deterioration, or other critical findings, BDI will measure those in detail and provide sketches and pictures presenting the extents and severity of the degradation per the AASHTO MBEI.*** Depending on the level of finding, BDI will report them as soon as practical, but no later than the required reporting timelines as defined in the NBIS and LADOTD's inspection manual. While not provided in the resume section as they were not requested as part of the MPRs, BDI's office and data analysis staff have extensive expertise in the daily review of field data as it's collected and uploaded to BDI's server, which provides a triple redundant cloud-based level of data security. Data, including notes and photos, will be cataloged for analysis and reporting, and then the analysis team will work with the inspectors to develop the report and upload it to InspectX.

VALUE ADD

BDI can perform tension measurements and monitoring of cables and tendons of cable-stayed and suspension bridges to provide critical information to DOTD on the load carrying capacity of degraded members identified during routine and fracture critical inspection. Additionally, BDI can provide cable lift force measurements for balancing of lift and bascule bridges.

In the event that there are elements of the moveable structure that require further evaluation, such as cable forces or trunnions that support cables, BDI will utilize its ***in-house expertise for NDT-E and structural monitoring to perform necessary ultrasonic testing, load testing, or diagnostic testing of moveable bridge elements. BDI owns and will provide all testing and monitoring necessary equipment. BDI has performed NDT-E on thousands of steel pins with ultrasonic testing*** throughout the US and in Louisiana as part of fracture critical truss pin and pin assembly inspection. BDI also provides in-house ***UAV inspection data capture and processing to create 3D digital twins with crack, spall, and patch detection***. BDI platforms can collect high-resolution images, infrared, and LIDAR data. Once data is collected, BDI uses in-house software to perform ***automated image stitching to create to supplement visual inspection making the inspector's job more efficient for these complex bridges***.

V. Post Inspection

BDI will lead the management and reporting for all inspection activities that are self-performed and subcontracted. Reports will be prepared that include all findings of the inspection, element level data, defects, and condition states. Reports will be QA/QC'ed per BDI's QA/QC plan and submitted to LADOTD. If comments or questions are provided by LADOTD, BDI will resolve those comments in accordance with its QA/QC plan. BDI will then update InspectX with all data and photos collected during the inspection and update the inspection dates to maintain compliance with required intervals.

The BDI team has extensive expertise in the inspection of complex bridges, and it also has similar experience in developing recommendations for repairs, rehabilitation, maintenance, and preservation based on the findings of those inspections. BDI can perform additional load testing and load capacity analysis when and where needed, and the Team will work with LADOTD to ***design repairs and rehabilitation plans to be summarized and incorporated into the report such that the assets can be preserved to the fullest extent***.

VI. Documentation and Communication

BDI will maintain records of all inspections and compliance with the InspectX requirements set forth in the RFQ. Throughout each inspection project, BDI will communicate findings and recommendations to the necessary LADOTD personnel and provide updates on any follow-up actions including load rating analyses, repair designs, and recommendations for further inspection.

VII. Continuous Improvement

BDI actively updates its quality assurance/quality control plans for the overall company and specific projects to ensure the requirements of each contract are met. During project closeout, BDI will work with LADOTD to evaluate the effectiveness of its inspection and reporting process. This feedback will be used to continuously evaluate the effectiveness, safety, and compliance of the inspection program and incorporate lessons learned into future inspection protocols.

A typical description of work performance and schedule is presented in Figure 1. Projects awarded under these contracts will vary in both scope and timeline; therefore, the units of time will vary.

BDI is already compliant with the work zone requirements of this project as it currently working under contract 4400025002, but it ***will manage all traffic control operations and procedures as necessary to facilitate all inspection and testing under this Contract.*** When necessary, BDI will submit a Traffic Control plan to the appropriate LADOTD District for review and approval. BDI also actively updates its quality assurance/quality control plans for the overall company and specific projects to ensure the requirements of each contract are met. BDI has in house health and safety personnel that will assist in ensuring all OSHA, confined space, and other access safety requirements are met including providing the necessary equipment to ensure all inspectors are safe.

Figure 1 - Typical Project Approach and Proposed Project Schedule

Typical Activities	Typical Schedule *(Units of Time May Vary)*
Task Order Development	
Definition of objectives	
Scope and schedule development / staffing selection / resource needs and budget development	
Contracting Process – provide technical and cost proposal, execute TO, obtain NTP prior to beginning work.	
Pre-Inspection Preparation	
Schedule a kickoff meeting and any other required pre-planning meetings, once awarded.	
Desktop review	
Development of JHA and field-testing plans	
Coordinate with LADOTD for traffic control and/or structure access.	
Inspection Execution	
Perform inspection and field data collection with certified NBIS team leaders and inspectors	
Report deteriorated/damaged elements and review critical findings with LADOTD stakeholders (if identified)	
Upload, review, and catalog inspection data.	
Perform additional diagnostic testing or NDT-E if applicable	
Post Inspection	
Develop draft reports and perform internal QA/QC	
Submit draft reports for review, resolve comments and questions in accordance with BDI's QA/QC Plan	
Submit final reports with repair, rehabilitation, load capacity analysis, corrections, and any other maintenance functions per deliverable requirements	
Work with LADOTD to design repairs/rehabilitations plans and perform load capacity analysis	
Upload required data into InspectX	
Continuous Improvement	
Stakeholder feedback and incorporation of lessons learned	
Project closeout	

19. <u>Workload:</u>

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

1) one of the team's firms is responsible for the performance of the work;
2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
3) the work has not yet been performed and invoiced; and
4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Bridge Diagnostics, Inc. (BDI)	Bridge, Data Collection, Survey	Contract #: 4400025002 State Project #: H.009730.5	IDIQ Contract for Non-destrucive Testing/Evaluation of Structures - Task Order 2	$53,860
Bridge Diagnostics, Inc. (BDI)	Bridge, Data Collection, Survey	Contract #: 4400025002 State Project #: H.009730.5	IDIQ Contract for Non-destrucive Testing/Evaluation of Structures - Task Order 3	$1,125,313
Bridge Diagnostics, Inc. (BDI)	Bridge, Data Collection, Survey	Contract #: 4400025002 State Project #: H.009730.5	IDIQ Contract for Non-destrucive Testing/Evaluation of Structures - Task Order 4	$364,019
Engineering Operations, LLC	Bridge	Contract #: 4400019121 State Project #: H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 02	$447,696
Engineering Operations, LLC	Bridge	Contract #: 4400019121	LaDOTD IDIQ Contract for Underwater Inspection	N/A

		State Project #: H.009730.5	- Task Order 03	
Engineering Operations, LLC	Other (Ancillary Structures)	Contract #: 4400017089 State Project #: H011331	LaDOTD IDIQ Contract for Inventory and Inspection of Sign Trusses Statewide	$20,119
Forte & Tablada, Inc.	Bridge	4400021594/ H.009859.5	Task Order No. 1 - Load Rate Selected Statewide Bridges	$165,129
Forte & Tablada, Inc.	Bridge, Survey	4400021594/ H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	$52,359
Forte & Tablada, Inc.	Bridge	4400021594/ H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	$5,681
Forte & Tablada, Inc.	Bridge	4400021594/ H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	$562
Forte & Tablada, Inc.	Bridge	4400021594/ H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	$123
Forte & Tablada, Inc.	Bridge	4400021594/ H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	$2,171,019
Forte & Tablada, Inc.	Bridge	4400021594/ H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	$92,522
Forte & Tablada, Inc.	Bridge	4400021594/ H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	$173,672
Forte & Tablada, Inc.	Bridge/Survey	4400024589/ H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	$49,265
Forte & Tablada, Inc.	Bridge/Survey	4400013387/ H.013137.5	OSBR Ouachita	$23,249

Forte & Tablada, Inc.	Bridge/Survey	4400019864/ H.014318.5	OSBR Gurney Road Bridges	$94,154
Forte & Tablada, Inc.	Bridge	4400025037/ H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	$70,902
Forte & Tablada, Inc.	Road/Bridge	4400024641/ H.005734.5	LA 447 Corridor	$180,226
Forte & Tablada, Inc.	CE&I/OV	4400023837/ H.013090.6	Gretna Downtown Pedestrian Improvements	$55,022
Forte & Tablada, Inc.	CE&I/OV	4400023837/ H.009290.6	LSU Laboratory School SRTS Project	$53,040
Forte & Tablada, Inc.	Survey	4400021532/ H.013537.5	LA 93: Ditch Bridge	$21,405
Forte & Tablada, Inc.	Survey	4400025029/ H.015341	D61(EBR) IIJA Off-System Bridge	$83,332
Forte & Tablada, Inc.	Survey	4400025029/ H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	$47,004
Forte & Tablada, Inc.	Survey	4400004128/ H.004273.5	I-49 Connector	$35,942
Moffatt and Nichol, Inc.	Bridge	4400019121/ H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 02	$447,547
Moffatt and Nichol, Inc.	Bridge	4400019121/ H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 03	$1,796,731
Moffatt and Nichol, Inc.	Bridge	4400023512/ H.009730.5	LaDOTD Development Services for Three Primary Bridge Inspection Documents	$163,628
KTA-Tator, Inc.	Bridge	Contract No. 4400023511	IDIQ Contract for Bridge Inspection Services	$2,493
KTA-Tator, Inc.	Bridge	Contract No. 4400023511	(Task Order – Coating assessment on LADOTD	$12,772

			US190 Krotz Springs Bridge)	
Gresham Smith	Road	H.013720.5	LRSP/STRPPP Bonner Street Bridge Pedestrian Improvements	$1,544
Gresham Smith	Road	H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$11,655
Gresham Smith	Traffic	H.015086.5	LRSP/STRPPP LA 14	$11,585
Gresham Smith	Road	H.013714.5	LRSP/STRPPP Valhi Boulevard Shared Use Path Signing and Striping	$33,175
Gresham Smith	Road	H.015196.5	LRSP/STRPPP DeSoto Signing and Striping	$3,642
Gresham Smith	Planning	H.010074.1	LA 70 at LA 3089 Stage 0	$76,276
Gresham Smith	CE&I/OV	H.013256.6	I-10 Scott to Lake Charles ITS CEI	N/A
Gresham Smith	Other (Program Management)	H.015959.1	Discretionary Grant Administration (NOTE: This contract is based on an Average Annual billing of $400,000/ year. We are in year 1 of 4. For this contract we have 1 staff embeded at DOTD HQ on a part time basis. It is unlikely that this full amount will be recognized. (Program Management ONLY – NO Other work disciplines).	$1,597,139
Gresham Smith	Road	H.016012	Transportation Alternative Program TO #1	$11,171

Gresham Smith	Road	H.014640	LRSP TO #1 St. Mary Parish	$71,434
Gresham Smith	Road	H.015196.5	SRTPPP TO #3 DeSoto Supplement 1	$16,146
Gresham Smith	Road	H.013720.5	SRTPPP TO #4 Bonner St Supplement 1	$29,917
				DO NOT SUM

* The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. <u>Certifications/Licenses:</u>
If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank**.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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

Mr. Brett Cameron Commander
740 South Pierce Avenue, Unit 15
Louisville, Colorado 80027

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. Brett Cameron Commander

License/Certificate Type - Number
PE.0035864

Expiration Date
03/31/2025

Status: Active

Fold Here

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

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

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.

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U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Brett Commander

has participated in

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

hosted by

Colorado Department of Transportation

Date: *July 11-22-2016*

Location: *Denver, CO*

Hours of Instruction: 67

Dennis R. Bausfrom, P.E.

Instructor

William R. Gardner, PE

Instructor

Local Coordinator

Valerie Briggs

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Brett Commander

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: July 27-30 2021

Location: Virtual Delivery, TX

Hours of Instruction: 18

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2021.08.24 12:54:07 -04'00'

Instructor

Digitally signed by Mark Patrick Kane
DN: cn=Mark Patrick Kane, c=US, o=GPI, ou=Transportation, email=pkane@gpinet.com
Reason: I attest to the accuracy and integrity of this document
Date: 2021.08.23 19:55:21 -04'00'

Instructor

Shandon Richardson

Local Coordinator

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

Charles Young

has participated in

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

hosted by

University of Delaware

Date: Jan. 27, 2014- Feb. 07, 2014

Hours of Instruction: 67

Location: Newark, DE

/s/ Eric Mann
Instructor

/s/ Earl Lee
Local Coordinator

/s/ Gwen Mellins
Instructor

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Charles Young

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: July 27-30 2021

Location: Virtual Delivery, TX

Hours of Instruction: 18

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2021.08.24 12:55:11 -04'00'

Instructor

Digitally signed by Mark Patrick Kane
DN: cn=Mark Patrick Kane, c=US, o=GPI, ou=Transportation, email=pkane@gpinet.com
Reason: I attest to the accuracy and integrity of this document
Date: 2021.08.23 19:57:03 -04'00'

Instructor

Shandon Richardson

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

CHARLES YOUNG

has successfully completed the evaluation and written test
in accordance with SPRAT's Rope Access Certification Requirements
and is a certified

Level 1 Technician

SPRAT #190511

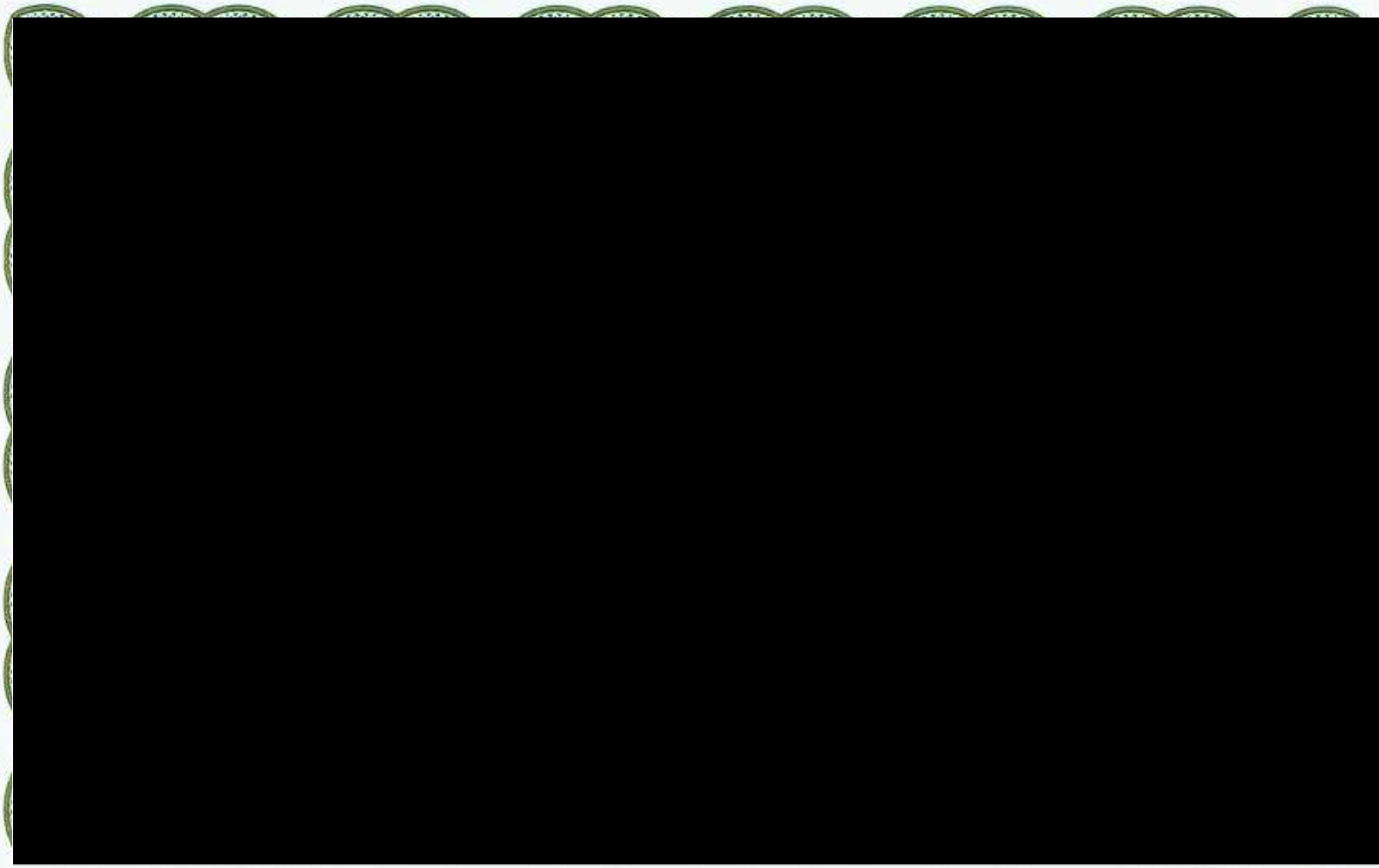
AWARDED: 18 August, 2023

Expires: 18 August, 2026

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.



i. UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

ii. **TEMPORARY AIRMAN CERTIFICATE**

iii. CERTIFICATE NO.
PENDING

THIS CERTIFIES THAT iv. CHARLES T YOUNG
v. 619 COLLYER STREET
LONGMONT CO 80501

DATE OF BIRTH	HEIGHT	WEIGHT	HAIR	EYES	SEX	NATIONALITY vi.
6/18/1989	74 IN.	200	BLOND	BLUE	M	USA

ix. has been found to be properly qualified and is hereby authorized in accordance with the conditions of issuance on the reverse of this certificate to exercise the privileges of
REMOTE PILOT

RATINGS AND LIMITATIONS
xii. SMALL UNMANNED AIRCRAFT SYSTEM

xiii.

vii. AIRMAN'S SIGNATURE

THIS IS ☒ AN ORIGINAL ISSUANCE ☐ A REISSUANCE OF THIS GRADE OF CERTIFICATE

DATE OF SUPERSEDED AIRMAN CERTIFICATE

BY DIRECTION OF THE ADMINISTRATOR

EXAMINER'S DESIGNATION NO. OR INSPECTOR'S REG. NO.

x. DATE OF ISSUANCE
05/31/2022 10:51:34 AM

xi. SIGNATURE OF EXAMINER OR INSPECTOR
MANAGER, AIRMEN CERTIFICATION BR
IACRA E-SIGNED APPLICATION

DATE DESIGNATION EXPIRES

FAA Form 8060-4 (8-79) USE PREVIOUS EDITION Application Number: 3300957 IACRA Equivalent

XIV. CONDITIONS OF ISSUANCE

This is an interim certificate issued subject to the approval of the Federal Aviation Administration pending the issuance of a certificate of greater duration. It becomes void –

1. Upon the receipt of a certificate of greater duration to replace it;
2. Upon a finding by the FAA that an error has been made in its issuance;
3. Upon a finding by the FAA that is was issued illegally or as the result of fraud or mis-representation;
4. Upon the refusal or failure by the holder to accomplish a flight check by a Flight Standards Inspector if so requested; and
5. In any case, at the expiration of 120 days from date of issuance.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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

Mr. Steven Mark Fall Jr.
4300 S I-10 Service Road W
Metairie, Louisiana 70001

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. Steven Mark Fall Jr.

License/Certificate Type - Number: PE.0048637

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.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Steven Fall

has Successfully Completed

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

hosted by

Colorado Department of Transportation

Date: *July 18-29, 2022*

Location: *Denver, CO*

Hours of Instruction: 67

William R Gardner PE
Instructor

James A Gardner
Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

STEVEN FALL

has Successfully Completed

FHWA – NHI – 130078
FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES
hosted by

ILLINOIS DEPARTMENT OF TRANSPORTATION

Date: **DECEMBER 6-9, 2022**

Location: **SCHAUMBURG, ILLINOIS**

Hours of Instruction: **25 Hours**

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

SPRAT

Society of Professional Rope Access Technicians

Rope Access Certification

Level 1

Steven Mark Fall, Jr.

SPRAT Certification # 102233

Date of Birth: 22 OCT 1994

Certification Date: 17 FEB 2023

Expiration Date: 17 FEB 2026

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Steven Fall

has attended

Traffic Control Supervisor-LA State Specific

Training Course

7/1/2021 to 7/2/2025
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

Steven Fall

has attended

Traffic Control Technician-LA State Specific

Training Course

6/29/2021 to 6/29/2025
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

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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

Mr. Brice Alan Carpenter
740 S. Pierce Ave. Unit 15
Louisville, Colorado 80027

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. Brice Alan Carpenter

License/Certificate Type - Number
PE.0039341

Expiration Date
03/31/2025

Status: Active

Fold Here

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

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

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.

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Bridge Inspection Training School

This certifies that

Brice Carpenter

Has completed a Federal Highway Administration (FHWA) approved comprehensive course

January 9-20, 2006
New Mexico State University
Las Cruces, NM

Samuel P. Maggard, Ph.D., P.E.
Bridge Inspection Engineer
Civil Engineering Department
New Mexico State University

NM STATE UNIVERSITY

Kenneth R. White, Ph.D., P.E.
Associate Department Head
Civil Engineering Department
New Mexico State University

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

BRICE CARPENTER

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: *January 7-9, 2019*

Location: *Baton Rouge, LA*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brice Carpenter

has attended

Traffic Control Supervisor-LA State Specific

Training Course

7/1/2021 to 7/2/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
08-31-2024

NUMBER
0402065562

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS
PROFESSIONAL ENGINEER LICENSE

MARISOL TSUI CHANG
3026 SILENT VALLEY DRIVE
FAIRFAX, VA 22031

DPOR

Demetrios J. Melis, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR APELSCIDLA
PROFESSIONAL ENGINEER LICENSE
NUMBER: 0402065562 EXPIRES: 08-31-2024

MARISOL TSUI CHANG
3026 SILENT VALLEY DRIVE
FAIRFAX, VA 22031

(FOLD)

Status can be verified at http://www.dpor.virginia.gov

DPOR-PC (02/2017)

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Marisol Tsui-Chang

has participated in

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

hosted by

Texas Department of Transportation

Date: August 9-20, 2021

Location: Austin, TX

Hours of Instruction: 67

Instructor

Instructor

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

Jordan Locke

has Successfully Completed

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

hosted by

Hawaii Department of Transportation

Date: *December 6-17, 2021*

Location: *Honolulu, HI*

Hours of Instruction: 67

Instructor

Instructor

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

Jordan Locke

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Hawaii Department of Transportation

Date: *April 19-22, 2022*

Location: *Honolulu, Hawaii*

Hours of Instruction: 25

Brian D. Dietrich
Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

JORDAN FRANCIS LOCKE

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

CERTIFIED

Level 3 Rope Access Technician

SPRAT #191491

AWARDED: February 04, 2022

Expires: February 04, 2025

TROLL ., EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Michael Sullivan

has participated in

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

hosted by

Michael Baker International

Date: **December 5-16, 2016**

Hours of Instruction: **67**

Location: **Dallas, Texas**

H C Ryan Jr P.E.
Instructor

Local Coordinator

Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Sullivan

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Whitman, Requardt & Associates, LLP

Date: September 14 - 16, 2021

Hours of Instruction: 18

Location: Virtual Delivery, MD

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2021.09.25 13:17:03 -04'00'

Instructor

Earl E. Dubin
Digitally signed by Earl E. Dubin
Date: 2021.09.24 12:19:51 -04'00'

Instructor

Debra Rizzieri

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

Michael Sullivan

has participated in

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

hosted by

WSP

Date: February 13-16, 2017

Location: Middletown, NY

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

SPRAT®

Society of Professional Rope Access Technicians

Rope Access Certification

Level 1

Michael Sullivan

SPRAT Certification # 2000836

Date of Birth: 13 SEP 1994

Certification Date: 9 JUN 2023

Expiration Date: 10 JUL 2026

ANSI ACCREDITED
ISO/IEC 17024
Personnel Certification Program
#0644

The American Society for Nondestructive Testing, Inc.

Be it known that

Ricky L Morgan

Has met the established and published Requirements for Certification by ASNT as

NDT Level III

In the following Nondestructive Testing Methods:

Method	Issue Date	Expiration Date
Liquid Penetrant Testing	11/20	11/25
Magnetic Particle Testing	11/20	11/25
Ultrasonic Testing	11/20	11/25

56955
Certificate Number

Certification Management Council Chair

ASNT President

Note: All ASNT NDT Level III exams are developed and maintained in accordance with ISO/IEC 17024 guidelines for certification of persons. The following exams are currently accredited by the American National Standards Institute (ANSI) - BASIC, ET, MT, PT, RT, UT, and VT. This certificate is the property of ASNT, is not official without ASNT's raised gold seal and is subject to revocation prior to the listed expiration date. This certificate shall be verified on the ASNT website or by contacting ASNT.

AWS American Welding Society®

Certifies that Welding Inspector

Ricky Morgan

has complied with the requirements of AWS QC1,
Standard for AWS Certification of Welding Inspectors

96041161
CERTIFICATE NUMBER

Apr/01/2023
EXPIRATION DATE

AWS PRESIDENT

AWS QUALIFICATION & CERTIFICATION
COMMITTEE CHAIR

Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that

Mr. Samuel Ray Williams

having qualified before this Board in accordance with laws is licensed as a

Professional Engineer

and is hereby entitled to practice engineering in the State of Louisiana.

Baton Rouge, Louisiana · 01/10/2011

Chairman

Secretary

License Number 36045

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Samuel Williams

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Kansas Department of Transportation

Date: *December 07-09, 2021*

Location: *Topeka, KS*

Hours of Instruction: 18

Instructor

Instructor

Audrey Atkinson
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

Samuel Williams

has participated in

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

hosted by

Texas Department of Transportation

Date: *February 06 - 17, 2017*

Location: *Austin, Texas*

Hours of Instruction:

67

Guy R Lang PE
Instructor

Local Coordinator

Randall Leonard PE
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

Samuel Williams

has participated in

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

hosted by

West Virginia Department of Transportation

Date: *Aug. 29 – Sept.1, 2017*

Location: *Charleston, WV*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Samuel Williams

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Ohio Department of Transportation

Date: *December 6-9, 2022*
Location: *Columbus, Ohio*

Hours of Instruction: 24.0

John Bogue
Instructor

Jeffrey O'Connor
Instructor

Tina M. Potter
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 61430

Expires 06/26/2025

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

SAMUEL RAY WILLIAMS I.D. 7112

Commercial Diver Certification Card

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/14/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Joseph T. White
85 Sanford Avenue
Debary, Florida 32713

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 T. White

License/Certificate Type - Number: PE.0045154

Expiration Date: 03/31/2025

Status: Active

Fold Here

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

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

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

Disclaimer
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This certifies that

Joseph Taylor White

Has successfully completed

National Bridge Element Training

DOT Course PE-07-0003
FBPE Course 0009423

by

Florida Department of Transportation

Presented June 17-18, 2014
In Chipley, Florida
And has Qualified for 14 PDH Credits

Thomas Beitelman, P.E. Richard I. Kerr, P.E.

Federal Highway Administration
RESOURCE CENTER

TAYLOR WHITE

has completed 11 hours of training in

Introduction to Element Level Bridge Inspection

Date: **February 26 & 27, 2014** *Location:* **Washington Navy Yard, DC**

Instructors

Coordinator(s)

FILE

ec transmission by	date
RAR	12-28-06

U. S. DEPARTMENT
OF TRANSPORTATION

**Federal Highway
Administration**

Pennsylvania Division

DEC 2 8 2006

228 Walnut Street, Room 508
Harrisburg, PA 17101-1720

In reply refer to:
HBR-PA

RTG SYMBOL	HBR-PA
INITIAL/SIG	
DATE	
RTG. SYMBOL	HTS-PA
INITIAL/SIG	RJM
DATE	12/23/06
RTG. SYMBOL	
INITIAL/SIG	
DATE	

Pennsylvania Basic Bridge Safety
Inspection Training Course
Qualification

Mr. M. G. Patel, P.E.
Chief Engineer for Highway Administration
Pennsylvania Department of Transportation
Harrisburg, Pennsylvania

ATTN: Mr. Scott Christie, P.E.

Dear Mr. Patel:

Mr. Dean Schreiber, of your staff, had requested FHWA's approval of Pennsylvania's Basic Bridge Safety Inspection Training Course with an April 13, 2005 letter outlining the Department's implementation of the new National Bridge Inspection Standards Regulation. We are now able to qualify and approve Pennsylvania's course: (1.) as "comprehensive," meeting the intent of the NBIS and (2.) as equivalent to the National Highway Institute's Course Number 130055, "Safety Inspection of In-Service Bridges."

Pennsylvania's Basic Bridge Safety Inspection Training Course takes, as its primary instructional text, the NHI "Bridge Inspector's Reference Manual." This is supplemented by a course workbook, and Pennsylvania Bridge Management System coding documents and inspection policy. Bridge Safety Inspectors, with an adequate background in engineering concepts (see NHI Course 130054), who have attended and passed the Department's basic course will be considered by FHWA as meeting the primary qualifications to inspect highway bridges and culverts and rate their NBIS condition. Official qualification will be effective for two years in Pennsylvania and will be renewed by PennDOT upon successful completion of subsequent refresher courses tailored to Pennsylvania's bridge inventory and inspection practices.

Celebrating 50 Years 1956 50 2006 Eisenhower Interstate System

BUCKLE UP AMERICA

Thank you for supplying supplemental information which aided our review of the Department's request for an equivalency determination.

Sincerely yours,

Richard J. Marquis

(FOR) James A. Cheatham
Division Administrator

ec: Mr. Tom Everett, P.E., FHWA
Mr. William Williams, FHWA

S:\FY2007\Dec\BridgeSafetyInspectCourse.wew.doc

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Joseph Taylor White

Attended

Basic Bridge Safety Inspection Course No. 057

Sponsored by the Highway Administration Deputate

DATE: February 6 – 23, 2012

LOCATION: Hollidaysburg, PA

TRAINING VENDOR: Infrastructure Engineers, Inc.

INSTRUCTORS: Dustin Noel, Frank Mayer

TEST SCORE: 85%

CONT. ED. CREDITS*: 91 PDHs

Mary Sharp
Training Development Manager

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc. Students who do not take the class test receive N/A in lieu of a test score and their training record is marked "Incomplete." Should you have any questions about this certificate or exam scores, please contact us at 717-214-8754.

*The inclusion of continuing education credits (PDH/CEU/CEH) on this Certificate does not imply or guarantee that the training course is approved by the Pennsylvania State Registration Board of Professional Engineers, Geologists and Land Surveyors. According to Pennsylvania Act 25, *"Credit determination for activities...shall be the responsibility of the licensee."*

Rev. December 2010

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Taylor White

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Volkert, Inc.

Date: *January 25-27, 2022*

Location: *Tampa, FL*

Hours of Instruction: 18

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

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Joseph T. White

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Naval Facilities Engineering Service Center-ECDET

Date: *July 12-14, 210*

Location: *National Harbor, MD*

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 58043

Expires 07/15/2028

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

JOSEPH T. WHITE I.D. W300-478-86-305-0

Commercial Diver Certification Card

INFRASTRUCTURE ENGINEERS, INC.

DIVING SUPERVISOR CERTIFICATION
for COMPLEX DIVING and DIVING EMERGENCY MANAGEMENT

This certifies that

Taylor White

has successfully completed a 60-hour course in diving emergency management and the supervision of complex and deep diving operations. The course included both written examinations and hands-on field evaluation of how Mr. White handled emergency scenarios, including life-threatening diving accidents.

May 10, 2013

David R. Reser, PE

Jeffrey M. Lane

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/16/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Benjamin Kenney
5575 South Sycamore Street, Suite 235
Littleton, Colorado 80120

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. Benjamin Kenney

License/Certificate Type - Number
PE.0041531

Expiration Date
09/30/2025

Status: Active

Fold Here

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

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

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

Disclaimer
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U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Benjamin Kenney

has participated in

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

hosted by

Kentucky Transportation Cabinet

Date: *June 8-19, 2009*

Location: *Frankfort, Kentucky*

Hours of Instruction: *60.0*

Gerald H. Jans P.E.
Instructor

Guy R Lang PE
Instructor

Stephanie Teasley
Local Coordinator

Richard Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Benjamin C. Kenney

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

California Department of Transportation

Date: January 5-8, 2021

Location: Virtual Delivery, CA

Hours of Instruction: 18

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2021.01.13 16:49:01 -05'00'

Instructor

Finn K. Hubbard
2021.01.11 08:42:20 -06'00'

Instructor

Mohammad Popal Saeed

Local Coordinator

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
Training Solutions for Transportation Excellence

Benjamin Kenney

has participated in

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

hosted by

Colorado Department of Transportation

Date: *July 09-12, 2013*

Location: *Denver, CO*

Hours of Instruction: 21

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
Training Solutions for Transportation Excellence

Benjamin Kenney

has participated in

FHWA-NHI-130091: Underwater Bridge Inspection

hosted by

Fathom Research, LLC.

Date: February 12-14, 2008

Location: New Bedford, MA

Hours of Instruction: 18 hours

Terence M. Browne
Instructor

Thomas Collins
Instructor

Local Coordinator

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

Association of Diving Contractors International

Cert. # 53914

Expires 04/20/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

BENJAMIN CARL KENNEY I.D. 466981594

Commercial Diver Certification Card

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®

Society of Professional Rope Access Technicians

Acknowledges that

BENJAMIN KENNEY

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

CERTIFIED

Level I Rope Access Technician

SPRAT #110221

AWARDED: June 17, 2016
Expires: June 17, 2019

CHARLEY RANKIN, EVALUATIONS COMMITTEE CHAIR

IAIN GAULT, SPRAT PRESIDENT

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Aaron Richardson

has participated in

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

hosted by

Texas Department of Transportation

Date: *February 5 –16, 2018*

Location: *Austin, TX*

Hours of Instruction: *67*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Aaron Richardson

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

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

Aaron Richardson

has participated in

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

hosted by

Texas Department of Transportation

Date: *January 25 - 28, 2022*

Location: *Austin, TX*

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

national highway institute

Certificate of Training

Aaron Richardson

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Ohio Department of Transportation

Date: *December 6-9, 2022*

Location: *Columbus, Ohio*

Hours of Instruction: 24.0

John Bogue
Instructor

Jeffrey O'Connor
Instructor

Tina M. Potter
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

Aaron Richardson

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

Local Coordinator

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

Aaron Richardson

has participated in

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

hosted by

Texas Department of Transportation

Date: *February 5 –16, 2018*

Location: *Austin, TX*

Hours of Instruction: *67*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Aaron Richardson

has participated in

FHWA-NHI-135046 Stream Stability and Scour at Highway Bridges

hosted by

Texas Department of Transportation

Date: *March 22-24, 2022*

Location: *Mesquite, TX*

Hours of Instruction: 18

Instructor

Instructor

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

Aaron Richardson

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Ohio Department of Transportation

Date: *December 6-9, 2022*

Location: *Columbus, Ohio*

Hours of Instruction: 24.0

John Bogue
Instructor

Jeffrey O'Connor
Instructor

Tina M. Potter
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

Aaron Richardson

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Ohio Department of Transportation

Date: *December 6-9, 2022*

Location: *Columbus, Ohio*

Hours of Instruction: 24.0

John Bogue

Instructor

Jeffrey O'Connor

Instructor

Tina M. Potter

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 61664

Expires 08/31/2025

ADCI

SURFACE-SUPPLIED AIR DIVER

AARON RICHARDSON I.D. 3766

Commercial Diver Certification Card

SPRAT

Rope Access Certification
Level 1

Aaron Richardson

SPRAT Certification # 2302263
Date of Birth: 9 NOV 1991

Certification Date: 29 SEP 2023
Expiration Date: 29 SEP 2026

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Remy Stern

has participated in

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

hosted by

MP Engineers, P.C.

Date: March 02-13, 2020
Location: Kingston, NJ

Hours of Instruction: 67

Guy R Lang PE
Instructor

Mahendra Patel
Local Coordinator

PE
Instructor

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

SPRAT®

Society of Professional Rope Access Technicians

Rope Access Certification

Level 1

Remy Stern

SPRAT Certification # 2000725

Date of Birth: 21 JUL 1994

Certification Date: 17 NOV 2023

Expiration Date: 17 NOV 2026

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Nate Proffitt

has participated in

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

hosted by

North Dakota Department of Transportation

Date: *July 26 - August 6, 2021*

Location: *Bismarck, ND*

Hours of Instruction: 67

Instructor

Instructor

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

Nate Proffitt

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Whitman, Requardt & Associates, LLP

Date: *March 29-April 1, 2022*

Location: *Richmond, VA*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

SPRAT®

Society of Professional Rope Access Technicians

Rope Access Certification

Level 1

Nate Proffitt

SPRAT Certification # 2000722

Date of Birth: 14 MAR 1990

Certification Date: 17 NOV 2023

Expiration Date: 17 NOV 2026

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Jonathan Ivey

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Ayres Associates

Date: *November 05-07, 2019*

Location: *Tampa, FL*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Michael Davies, P.E.
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

Jonathan Ivey

has participated in

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

hosted by

Department of Civil & Environmental Engineering, University of Delaware

Date: June 16 – June 27, 2014

Hours of Instruction: 67 Hours

Location: University of Delaware, Newark, DE

Guy P. Lang PE
Instructor

Dennis L. Burgham, P.E.
Instructor

Rusty Lee
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Jonathan Ivey

has participated in

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

hosted by

California Department of Transportation

Date: *August 20-23, 2019*

Location: *Sacramento, CA*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Michael Davies, P.E.
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

Jonathan Ivey

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

W. J. Castle, P.E. & Associates P.C.

Date: *March 12-15, 2013*
Location: *Hainesport, NJ*

Hours of Instruction: 24

Terrence M. Browne
Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

SPRAT

Rope Access Certification
Level 2

Jonathan Ivey

SPRAT Certification # 181290
Date of Birth: 12 JUN 1990

Certification Date: 23 FEB 2024
Expiration Date: 28 JUN 2027

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

Mr. Bradley Scott Holleman

License/Certificate Type - Number
PE.0047165

Expiration Date
03/31/2025

Status: Active

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

Mr. Bradley Scott Holleman

License/Certificate Type - Number
PLS.0005082

Expiration Date
09/30/2024

Status: Active


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Bradley S Holleman
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course
1/29/2021 to 1/29/2025
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

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

Mr. Joffrey Elliott Easley

License/Certificate Type - Number

PE.0031542

Expiration Date

03/31/2025

Status: Active

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

JOFFREY EASLEY

has Successfully Completed

FHWA-NHI-130053

Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: *January 11-13, 2022*

Location: *Baton Rouge, LA*

Hours of Instruction: 18

Instructor

Instructor

Allison H. Landry
Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

Joffrey Easley

has participated in

NHI Course No. 130055 -
Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: **April 30-May 11, 2012**

Location: **Baton Rouge, LA**

Hours of Instruction: **67**

William R Gardner, PE
Instructor

Allison Landry
Local Coordinator

Instructor

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Joffrey Easley

has participated in

FHWA - NHI Course No. 130078
Fracture Critical Inspection Techniques for Steel Bridges (3.5 Days)

hosted by

LA DOTD/LTRC

Date: **August 11-14, 2015**

Hours of Instruction: **25**

Location: **Baton Rouge, LA**

Instructor

Allison H. Landry
Local Coordinator

Steven J. Muller
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joffrey Easley

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

4/7/2023 to 4/7/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

Dear Certified Flagger:

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

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

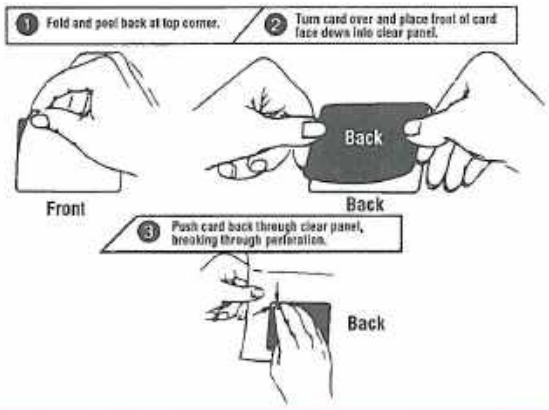
Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

Donna M. Clark

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:



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

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. Levi Ethan Yantis
9107 Interline Avenue
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. Levi Ethan Yantis

License/Certificate Type - Number
PE.0042390

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
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U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

LEVI YANTIS

has Successfully Completed

FHWA-NHI-130053

Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: *January 11-13, 2022*

Location: *Baton Rouge, LA*

Hours of Instruction: 18

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

NATIONAL HIGHWAY INSTITUTE

LEVI YANTIS

has participated in

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

hosted by

LA DOTD/LTRC

Date: *December 4-15, 2017*

Location: *Baton Rouge, LA*

Hours of Instruction: 67

Guy R Lang PE
Instructor

Allison H. Landry
Local Coordinator

Patrick Martens, PE
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

LEVI YANTIS

has participated in

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

hosted by

LA DOTD/LTRC

Date: *February 26 – March 1, 2019* *Hours of Instruction:* 25

Location: *Baton Rouge, LA*

Instructor

Instructor

Local Coordinator

Michael Davies, 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

Levi Yantis

has participated in

NHI Course No. FHWA-NHI-130107C

Maintenance of Movable Bridges

hosted by

National Highway Institute

Location: *Web-Based Course*

Hours of Instruction: *4 hours*

Date: *2/15/2020*

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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Levi Yantis

has attended

Traffic Control Supervisor-LA State Specific

Training Course

7/1/2021 to 7/2/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

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

Levi Yantis

has attended

Traffic Control Technician-LA State Specific

Training Course

6/29/2021 to 6/29/2025
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

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

LEVI YANTIS

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 #2100328
AWARDED: February 26, 2021
Expires: February 26, 2024

TROLL ., EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

Professional Engineers Licenses

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

Mr. Chace Mikel Hulon

License/Certificate Type - Number	Expiration Date
PE.0039701	09/30/2025

Status: Active

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

Mr. Bryan Michael Tyson

License/Certificate Type - Number	Expiration Date
PE.0043425	03/31/2025

Status: Active

Department of Commerce, Community, and Economic Development
CORPORATIONS, BUSINESS & PROFESSIONAL LICENSING

State of Alaska / Commerce / Corporations, Business, and Professional Licensing / Search & Database Download / Professional Licenses / License Details

LICENSE DETAILS

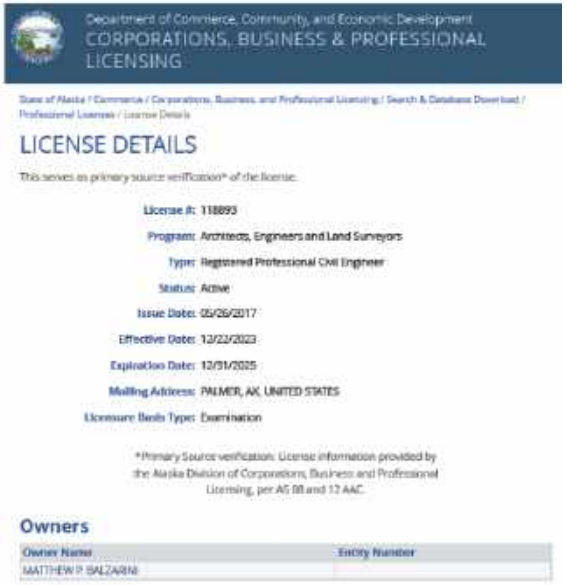
This serves as primary source verification* of the license.

License #: AELC13864
Program: Architects, Engineers and Land Surveyors
Type: Registered Professional Civil Engineer
Status: Active
Issue Date: 05/29/2013
Effective Date: 12/20/2023
Expiration Date: 12/31/2025
Mailing Address: ANCHORAGE, AK, UNITED STATES
Licensure Basis Type: Examination

*Primary Source verification: License information provided by the Alaska Division of Corporations, Business and Professional Licensing, per AS 08 and 12 AAC.

Owners

Owner Name	Entity Number
Charles Glenn Balzarini	



Department of Commerce, Community, and Economic Development
CORPORATIONS, BUSINESS & PROFESSIONAL LICENSING

State of Alaska / Commerce / Corporations, Business, and Professional Licensing / Search & Database Download / Professional Licenses / License Details

LICENSE DETAILS

This serves as primary source verification* of the license.

License #: 118893
Program: Architects, Engineers and Land Surveyors
Type: Registered Professional Civil Engineer
Status: Active
Issue Date: 05/26/2017
Effective Date: 12/22/2023
Expiration Date: 12/31/2025
Mailing Address: PALMER, AK, UNITED STATES
Licensure Basis Type: Examination

*Primary Source verification: License information provided by the Alaska Division of Corporations, Business and Professional Licensing, per AS 08 and 12 AAC.

Owners

Owner Name	Entity Number
MATTHEW P BALZARINI	

Maryland
DEPARTMENT OF LABOR

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND
MARYLAND DEPARTMENT OF LABOR

STATE BOARD FOR PROFESSIONAL ENGINEERS
CERTIFIES THAT:
CLINT J HASE

IS AN AUTHORIZED: 05- PROFESSIONAL ENGINEER

LIC/REG/CERT	EXPIRATION	EFFECTIVE	CONTROL NO
59715	04-27-2025	N/A	6072980

Signature of Bearer
Secretary

WHERE REQUIRED BY LAW THIS MUST BE CONSPICUOUSLY DISPLAYED IN OFFICE TO WHICH IT APPLIES

Maryland
DEPARTMENT OF LABOR

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND
MARYLAND DEPARTMENT OF LABOR

STATE BOARD FOR PROFESSIONAL ENGINEERS
CERTIFIES THAT:
KIMBERLY MARIE GRAVATT

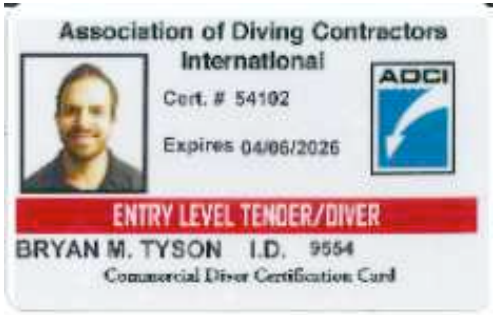
IS AN AUTHORIZED: 05- PROFESSIONAL ENGINEER

LIC/REG/CERT	EXPIRATION	EFFECTIVE	CONTROL NO
44084	06-15-2025	N/A	6089653

Signature of Bearer
Secretary

WHERE REQUIRED BY LAW THIS MUST BE CONSPICUOUSLY DISPLAYED IN OFFICE TO WHICH IT APPLIES

Association of Diving Contractors International Certification



Stephanie Athanas completed ADCI training at the end of June 2024 and has not received her ADCI card just yet.

National Highway Institute

Certificate of Training

Chace Hulon

FHWA-NHI-130053 Bridge Inspection Refresher Training

Office of State Aid Road Construction

National Highway Institute

Certificate of Training

Mike Russell

FHWA-NHI-130053 Safety Inspection of In-Service Bridges

Hawaii Department of Transportation

National Highway Institute

Certificate of Training

Bryan Tyson

FHWA-NHI-130053 Bridge Inspection Refresher Training (NNBI)

California Department of Transportation

National Highway Institute

Certificate of Training

Charles Balzarini

Bridge Inspection Refresher Training NHI

National Highway Institute

Certificate of Training

Matthew Balzarini

Safety Inspection of In-Service Bridges for Professional Engineers
Safety Workshop: FHWA-NHI-130056

Ohio Department of Transportation

National Highway Institute

Certificate of Training

Clint Harr

NHI-130053c Bridge Inspection Refresher Training

Rhode Island Department of Transportation

National Highway Institute

Certificate of Training

Kimberly M. Gravatt

FHWA-NHI-130053 Bridge Inspection Refresher Training

Maryland Department of Transportation

National Highway Institute

Certificate of Training

CHRISTOPHER A. ESCHENBACH

FHWA-NHI-130053 Bridge Inspection Refresher Training

LA DOTD/LTRC

National Highway Institute

Certificate of Training

JEFFREY GAZAREK

FHWA-NHI-130053 Bridge Inspection Refresher Training

LA DOTD/LTRC


National Highway Institute

Certificate of Training

Eric Jones

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

Washington Metropolitan Area Transit Authority

Date: June 3-14, 2024 Hours of Instruction: 80

Location: Glenn Dale, MD

Brett Sposito

Ralph Phillips

Tanez Lyons

Nancy Conlon, Director
National Highway Institute


National Highway Institute

Certificate of Training

KYLE BAILEY

FHWA-NHI-130055

Safety Inspection of In-Service Bridges

LA DOTD/LTRC

Date: May 15-26, 2023 Hours of Instruction: 65

Location: Baton Rouge, LA

Allison H. Landry

Shirley J. Castro
National Highway Institute

FHWA-NHI-130091 Underwater Bridge Inspection


National Highway Institute

Certificate of Training

Chace Hulon

FHWA-NHI-130091 Underwater Bridge Inspection

California Department of Transportation

Date: April 25-26, 2024 Hours of Instruction: 24

Location: Sacramento, CA

Shirley J. Castro
National Highway Institute


National Highway Institute

Certificate of Training

Bryan Tyson

FHWA-NHI-130091 Underwater Bridge Inspection

A.DiCesare Associates, PC

Date: October 10-13, 2023 Hours of Instruction: 24

Location: Wethersfield, CT

Shirley J. Castro
National Highway Institute


National Highway Institute

Certificate of Training

Clint Harr

FHWA NHI 130091 Underwater Bridge Inspection

Connecticut Department of Transportation

Date: June 1 – 6, 2018 Hours of Instruction: 24

Location: Newington, CT

Michael Culotta, Director
National Highway Institute


National Highway Institute

Certificate of Training

Kimberly Gravatt

FHWA-NHI-130091 Underwater Bridge Inspection

U.S. Army Corps of Engineers

Date: April 8-11, 2024 Hours of Instruction: 31

Location: Portland, OR

Richard Cheney, Director
National Highway Institute


National Highway Institute

Certificate of Training

Eric Jones

FHWA-NHI-130091 Underwater Bridge Inspection

A.DiCesare Associates, PC

Date: October 10-13, 2023 Hours of Instruction: 24

Location: Wethersfield, CT

Shirley J. Castro
National Highway Institute


National Highway Institute

Certificate of Training

Kyle Bailey

FHWA-NHI-130091 Underwater Bridge Inspection

Marlin Engineering, Inc.

Date: March 07-24, 2023 Hours of Instruction: 24

Location: Miami, FL

Timothy Hitchcock
National Highway Institute

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Robert Lanterman

As a Certified

NACE Certified Coating Inspector - Level 3

Executive Director
NACE International Institute

Expires
May 23, 2025

Cert No.13505

100520

AMPP™
The Global Leaders in Materials Protection and Performance

PROTECTIVE COATINGS SPECIALIST
SSPC
PCS

Certifies

Robert Lanterman, PCS

Has fulfilled the requirements for recognition as an **SSPC**

PROTECTIVE COATINGS SPECIALIST

Valid Through December 31, 2027

2015-820-136
Certification Number

August 20, 2015
Original Date Issued

Executive Director AMPP

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/7/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. John Steven Weres
13301 Harper Court
Gulfport, Mississippi 39503

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. John Steven Weres

License/Certificate Type - Number: PE.0036429

Expiration Date: 09/30/2025

Status: Active

Fold Here

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

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

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.

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

New Jersey Department of Transportation

Date: April 6 - 8, 2021

Location: Virtual Delivery, NJ

Hours of Instruction: 18

Digitally signed by Mark J. Nyerges
Date: 2021.04.13 08:47:04 -04'00'

Instructor

Digitally signed by Mark Patrick Kane
DN: cn=Mark Patrick Kane, c=US, o=GPI, ou=Transportation, email=pkane@gpinet.com
Date: 2021.04.09 15:15:53 -04'00'

Instructor

Douglas J. Tintle

Local Coordinator

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

John Weres

has participated in

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

hosted by
Kansas Department of Transportation

Date: *February 2-13, 2015*

Hours of Instruction: 67

Location: *Topeka, Kansas*

Guy R Lang PE
Instructor

Becky Welsh
Local Coordinator

William R Gardner PE
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

JOHN WERES

has participated in

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

hosted by

LA DOTD/LTRC

Date: *February 26 – March 1, 2019* *Hours of Instruction:* 25

Location: *Baton Rouge, LA*

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/7/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Dr. Yun Lin Ph.D.
222 Second Avenue South, Suite 1400
Nashville, Tennessee 37201

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

Dr. Yun Lin Ph.D.

License/Certificate Type - Number	Expiration Date
PE.0042444	09/30/2024

Status: Active

Fold Here

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

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U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Yun Lin, Phd, PE

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Timmons Group

Date: *September 26-28, 2022*
Location: *Richmond, VA*

Hours of Instruction: 18

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

NATIONAL HIGHWAY INSTITUTE

Yun Lin

has participated in

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

hosted by

Texas Department of Transportation

Date: *April 24- May 5, 2017*

Location: *Fort Worth, TX*

Hours of Instruction: *67*

H C Rogers Jr P.E.
Instructor

Local Coordinator

Guy R Lang PE
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/7/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Courtney Jermaine Rome
57665 Morrison Boulevard
Plaquemine, Louisiana 70764

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. Courtney Jermaine Rome

License/Certificate Type - Number: PE.0043355

Expiration Date: 09/30/2025

Status: Active

Fold Here

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

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

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.

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U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Courtney Rome

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Louisiana Department of Transportation and Development

Date: *June 25-27, 2024* *Hours of Instruction:* 22

Location: *Baton Rouge, LA*

Mark Nyerges Digitally signed by Mark Nyerges Date: 2024.07.10 15:35:44 -04'00'

Instructor

Earl Dubin Digitally signed by Earl Dubin Date: 2024.07.11 10:21:56 -04'00'

Instructor

Allison Landry

Local Coordinator

Stacey Caston

Stacey Caston, Director

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

COURTNEY ROME

has participated in

FHWA-NHI-130056 Safety Inspection of In-Service Bridges for Professional Engineers

hosted by

LA DOTD/LTRC

Date: *May 13-17, 2019*

Location: *Baton Rouge, LA*

Hours of Instruction: 34

William R Gordon PE
Instructor

Allison H. Landry
Local Coordinator

Randall [illegible], PE
Instructor

Michael Davies, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

COURTNEY ROME

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 #2100331
AWARDED: February 26, 2021
Expires: February 26, 2024

TROLL ., EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

U.S. Department
of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Russell Childs

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher Training

hosted by

Mississippi Department of Transportation

Date: September 14-17, 2020

Location: Virtual Delivery, MS

Hours of Instruction: 22

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2020.10.08 08:28:55 -04'00'

Instructor

Digitally signed by Randall Leonard, P.E.
Date: 2020.09.23 18:34:19 -05'00'

Randall Leonard. P.E.

Instructor

Richard Withers

Local Coordinator

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
Training Solutions for Transportation Excellence

Russell Childs

has participated in

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

hosted by
Office of State Aid Road Construction

Date: *November 9-20, 2009*
Location: *Hattiesburg, Mississippi*

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

Russell Childs

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date: *February 07-10, 2023*

Location: *Ridgeland, MS*

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

national highway institute

Certificate of Training

JACKSON HARTLEY

has Successfully Completed

FHWA-NHI-130055

Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: *May 15-26, 2023*

Location: *Baton Rouge, LA*

Hours of Instruction: 67

Instructor

Instructor

Allison H. Landry

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Acting Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Ryan Horn

has Successfully Completed

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

hosted by

SDR Engineering Consultants

Date: *January 10-21, 2022*

Location: *Tallahassee, FL*

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

21. <u>QA/QC Plan:</u>

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

22. Sub-consultant information:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**
Engineering Operations, LLC	27350 U.S. Hwy 190 Lacombe, LA 70445	Sam Williams swilliams@eopsco.com	985-276-7803
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr. jcoco@forteandtablada.com	225-927-9321
Moffatt & Nichol, Inc.	301 Main Street, Suite 800 Baton Rouge, LA 70801-0009	Chace Hulon chulon@moffattnichol.com	225-336-2075
KTA-Tator, Inc.	1624 Peachtree Valley Drive Round Rock, TX 78681	Johnnie Miller jmiller2@kta.com	737-308-9955
Gresham Smith	10000 Perkins Rowe, Suite 280 Baton Rouge, LA 70810	Herbert "Bert" Moore bert.moore@greshamsmith.com	225-757-5849

23. Location:

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