Proposal prepared for Louisiana Department of Transportation and Development



IDIQ CONTRACT FOR STATEWIDE UNDERWATER BRIDGE INSPECTION

CONTRACT NOS. 4400029206 and 4400029207 | June 2024





One American Place 301 Main Street, Suite 800 Baton Rouge, LA 70801 (225) 336-2075 Fax (225) 336 2076

June 13, 2024

Department of Transportation and Development Attn.: Selection Committee Consultant Contracts Services Administrator 1201 Capitol Access Road, Room 405-E Baton Rouge, LA 70802-4438

Re: Request for Statements of Qualifications | IDIQ Contacts for Underwater Bridge Inspection

The State of Louisiana must comply with 23 CFR Part 650 to remain compliant and fully funded by the FHWA. Therefore, the DOTD needs a trusted consultant with a local presence, a specialized underwater expertise, substantial capacity, significant resources, and familiarity with the entire DOTD Bridge Inspection Program to meet the unique demands of *IDIQ Contracts for Underwater Bridge Inspection*. Moffatt & Nichol remains steadfast and committed to the DOTD Bridge Maintenance Program as a trusted and valued consultant.

Moffatt & Nichol (M&N) is currently implementing new federal regulation changes to the DOTD Bridge Inspection Program and coauthoring the updated Bridge Inspection Manual to comply with the NBIS updates and the new Specifications for the National Bridge Inventory (SNBI). We offer invaluable familiarity with your Program after serving the DOTD as an incumbent on the previous two contacts for Underwater Bridge Inspection Services. A seamless transition into this new contract with new requirements and without any loss of momentum is more important now than ever. M&N deeply understands the state policies, the federal regulations, the complete scope of work, and the nuances of this unique environment related to logistics, safety, and quality.

M&N is nationally recognized as the leading engineering firm for structures in marine environments (ENR Ranking #1); an incredible resource in your own back yard! We have a well-established commercial diving program throughout 20 offices across the nation with the command center locally positioned in Baton Rouge. M&N is an ADCI-member firm with over 30 engineer-divers on staff, including staff on the board of ADCI. We exemplify safe practices, and we pioneer improvements to safe diving standards in our industry. The bayous of southern Louisiana and the lower Mississippi River basin offer extreme challenges to dive teams that are not local to this area; the M&N Baton Rouge team has developed a proven formula for safe diving practices in this State over the last 10 years.

Along with local knowledge, we provide a level of responsiveness and capacity that simply cannot be matched by any other firm. Should widespread flooding events occur, we have the in-house capacity and resources to field more than ten (10) different underwater inspection teams concurrently, so our resources can easily be redirected for the DOTD. M&N has an excellent track record of responding to various urgent requests from the Department within 2-48 hours.

The DOTD will get the direct benefit of a hands-on Project Manager and Vice President that can quickly make decisions to ensure priority and service to the Department on this underwater bridge inspection contract. Your M&N Project Manager (located in our **Baton Rouge office**) will also serve as NBIS Team Leader and Dive Supervisor to provide quality, consistency, efficiency, and responsiveness throughout the duration of each task order.

Thank you for evaluating our experience and qualifications. We appreciate working alongside your staff and we look forward to remaining a trusted consultant and advisor. If you have any questions, please contact me at 225.336.2075.

Sincerely,

MOFFATT & NICHOL

Chace Hulon, P.E. Project Manager/Vice President

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 STATEWIDE UNDERWATER BRIDGE INSPECTION
2.	Contract Number(s) as shown in the advertisement	4400029206 and 4400029207
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)	Moffatt & Nichol 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.0003104
6.	Prime consultant mailing address	301 Main Street, Suite 800 Baton Rouge, LA 70801
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	301 Main Street, Suite 800 Baton Rouge, LA 70801
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Chace Hulon, PE (225) 610-1932 chulon@moffattnichol.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Jonathan Hird, PE – Project Manager (225) 610-1930 jhird@moffattnichol.com

10. This is to certify that all information contained herein is accurate and true, and that the teal presently has sufficient staff to perform these services within the designated time frame. If submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer als certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors are suppliers, and has not, in the solicitation, selection, or commercial treatment of are subcontractor or supplier, refused to transact or terminated business activities, or taken oth actions intended to limit commercial relations, with a person or entity that is engaging commercial transactions in Israel or Israel. The proposer also has not retaliated against are person or other entity for reporting such refusal, termination, or commercially limiting action DOTD reserves the right to reject the response of the bidder or proposer if this certification subsequently determined to be false, and to terminate any contract awarded based on such false response.	$\begin{array}{c c} n \\ y \\ it \\ o \\ e \\ d \\ y \\ s \\ a \\ a \\ \end{array} \\ \begin{array}{c} \text{blue} \\ \text{blue}$
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): N/A - No DBE	Goal

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

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

Past Performance Evaluation Discipline(s)	% of Overall Contract Moffatt & Nichol		Engineering Operations, LLC.	Forte & Tablada, Inc.	Each Discipline must total to 100%				
Bridge 97%		80%	20%		100%				
Survey 3%				100%	100%				
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.									
Percent of Contract 100%		78%	19%	3%	100%				

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/CCS/Job Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	1	2
	Administrative	2	4
	CADD Technician	5	6
	Engineer	5	39
Moffatt & Nichol	Engineer - Other	3	12
	Inspector – Bridge	8	13
	Engineer Intern	6	8
	Senior Technician	8	13
	Supervisor - Engineer	2	8
	Principal	1	1
	Other (Program Manager)	1	3
Engineering Operations LLC	Other (Sr. Engineer/Sr. Team Leader)	2	5
Engineering Operations LLC	Other (Engineer/Team Leader)	4	16
	Other (Inspection Assistant)	2	3
	Other (Office Support Administrator)	1	3
	Party Chief	2	6
	Principal	1	3
Fords & Table Ja Las	Senior Technician	2	6
rorte & l'adiada, inc.	Instrument Man	2	7
	Rodman	2	7
	Surveyor	3	5

14. Organizational Chart:

M&N has assembled a cohesive, efficient, Louisiana-based inspection team with a proven track record of commitment to the LaDOTD Bridge program for over 10 years. Our team offers unmatched level of experience, knowledge of SNBI codes, assisted with the new InspectX format for underwater inspections, and is developing the LaDOTD Bridge Inspection Manual and the Coding and Field Guide.



<u>15. 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	Jonathan Hird, PE	Moffatt & Nichol	PE.0032299 - Civil	LA	09/30/2024
2	Jonathan Hird, PE	Moffatt & Nichol	PE.0032299 - Civil	LA	09/30/2024
3	Bryan Tyson, PE	Moffatt & Nichol	PE.0043425 - Civil	LA	03/31/2025
4	Thomas Spencer, PE	Moffatt & Nichol	PE.0035742 - Civil/Structural	LA	03/31/2025
5	Eric Jones, EI	Moffatt & Nichol	ADCI. 48879	USA	08/29/2025
			FHWA-NHI-130091		Completed on 10/13/23
5	Kyle Bailey	Moffatt & Nichol	ADCI. 66200 FHWA-NHI-130091	USA	06/05/2028 Completed on 03/10/23
5	Jeffrey Gazarek, COSS, COSM	Moffatt & Nichol	ADCI. 47951 FHWA-NHI-130053	USA	08/21/2028 05/14/2025
6	Bradley S. Holleman, P.E., P.L.S	Forte & Tablada, Inc.	PLS 5082 - Land Surveying	LA	09/30/2024
6	Ross A. Wilson, P.L.S.	Forte & Tablada, Inc.	PLS 5148 - Land Surveying	LA	03/31/2026
6	Gerald "Jerry" Middleton, P.L.S.	Forte & Tablada, Inc.	PLS 4856 - Land Surveying	LA	09/30/2025
6	Rachel Waldroup, P.L.S.	Forte & Tablada, Inc	PLS 5277 - Land Surveying	LA	09/30/2024
7	Chace Hulon, PE	Moffatt & Nichol	Marine Engineering Sonar	USA	Certified on
			Course, Level 1		06/15/18 (no
			(18 years of experience in		expiration)
			underwater imaging)		

16. <u>Staff Experience:</u>

Firm employed by Moffatt & Nichol							
NameChace Hulon, PE, ADCI				Years of relevant experience with this employer	10		
Title F	rogram Manager			Years of relevant experience with other employer(s)	10		
Degree(s) / Y	ears / Specialization		Bach	elor of Science / 2005 / Civil Engineering			
Active registr	ation number / state / expir	ation date	P.E.	39701 / LA / Exp. 09/30/25			
Year registere	d 2015	Discipline	P.E.	Civil			
Contract role(s) / brief description of res	ponsibilities	Proj	ect Manager and NBIS Underwater Team Leader Meets	MRP 2, 3, and 7		
			Chao	e will manage the contract and teams. He will perform the wo	ork as needed.		
Experience da	tes Experience and qu	alifications releva	ant to	the proposed contract; <i>i.e.</i> , "designed drainage", "designe	d girders", "designed		
(mm/yy-mm/	yy) intersection", etc. E	Experience dates s	hould	cover the years of experience specified in the applicable MPF	k(s).		
08/20-Ongoin	g LaDOTD, Underw	ater Bridge Insp	ection	s, Statewide. Project Manager, Dive Supervisor, and NBIS	Team Leader for the		
	current five-year ret	tainer contract to	perfor	m over 800 underwater bridge inspections throughout Louisia	ana, for a total of over		
	1500 bridges throu	igh all LaDOTD	under	water bridge inspection contracts combined. Level I, II, a	ind III inspections of		
	submerged element	s were performed	with	NDT devices and in accordance with the FHWA, BIRM, AA	ASHTO MBE, current		
	NBIS requirements	and LaDOID B	ridge	Inspection Manual. Bridge types included movable swing	span bridges, bascule		
	bridges, truss bridg	c alon and parfor	er brid	ges, cable-stayed bridges, single and multi-span bridges up	to 8 miles in length.		
	Managed the QA/Q	C plan and perform	mea Ç	C reviews as the confirming engineer on NBIS inspection rep	ons.		
	The diving inspection changes and struct performed using the QINSy, Qimera, Ap evaluations.	ons in large waterv ural deficiencies HydroLite-TM, F planix POSPac, N	vays v over Kongs IMS s	vere augmented with acoustic imaging technology to consisten subsequent inspection cycles. Acoustic hydrographic surv berg Mesotech MS 1000, and the Norbit Winghead i77 units d ystems, and MatLab were used for accurate and repeatable pos	tly monitor streambed veying methods were eployed from a vessel. at processing and scour		
	Performed emerger alternatives. Perforr Bridge over the Por	ncy underwater of ned many emerge t Allen Lock cana	damag ncy re 1.	e assessments while augmenting SONAR technology and esponse damage assessments including the recent allision of the	d advising on repair ne Gross Tette (LA77)		
03/20-Ongoin	g LaDOTD, IDIQ fo	or Complex Brid	lge In	spection, Statewide. Project Manager and Chief Editor	to develop the Bridge		
	Inspection Manual	(including off-sys	stem d	irectives), the Coding & Field Guide. The redevelopment is	a result of the recent		
NBIS changes in the CFR and the implementation of the Specifications for the National Bridge Inventory (SNBI). The N							
will be fully compliant with the FHWA SNBI Program Metrics in accordance with the published timeline. The Manual							
	uniquely ordered in	a systemic fashio	n with	an appendix to store all vital updated forms for the Bridge Ins	spection Program. The		
specific inspection type. The uniquely			ely str	ructured to operate on a field tablet. It will contain all vital of an appendix and pDE (using InDesign) allows for an executional newigation	n experience for quiek		
referencing Following delivery acceptance and publishing a training will b				e and publishing a training will be delivered to all Districts	on the newly released		
	BIM document M&	xN has been retain	red for	s 5 years to provide critical undates following NRIS changes	on the newry released		
	Divide entited updates following (vbib enanges.						

	Project Manager, Rope Access Technician, and NBIS Team Leader to perform in-depth bridge inspections on complex
	movable and long-span bridges. Performed structural, mechanical, and electrical inspections of six (6) movable bridges utilizing
	detailed, nondestructive, and laboratory testing methods with hand sketches. Utilized NDE methods (laser and acoustic) to
	analyze the rotational movement of an unstable pivot pier. Performed the inspections two cable-stayed bridges with rope access
	techniques to inspect 208 cables between the two bridges, their Gensui Dampers, and anchorage systems. Performed two
	inspections of I-10 Horace Wilkinson Bridge and two inspections of the Greater New Orleans Bridges, which are cantilever
	truss bridges utilizing rope access techniques and rolling lane closures to minimize traffic impacts. Performed a fracture critical
	inspection of the Green Bridge, a steel tied arch in New Orleans utilizing rope access and UAS access techniques. Performed
	the inspection of the I-10 Bridge over the Calcasieu River in Lake Charles utilizing rope access on NSTM's and UAS access
	techniques on columns. The Skydio drone with DroneDeploy and 3D Scan was used to capture an orthomosaic projection of the
	structure for digital twin models. Hands-on management and implementation of the QC review plan is vital to the continued
	success of this project.
08/22-03/23	USACE, Bridge and Waterfront Facility Inspection Services at USAG Fort Polk, Leesville, LA. Project Manager, Dive
	Supervisor, and Quality Assurance Field Engineer Lead for inspection of 63 FHWA reportable structures in the Fort Polk
	inventory. Structure types included multi-beam reinforced concrete bridges, reinforced concrete pipe and box culverts, and
	corrugated metal arch bridges and pipe culverts. Water levels at four structures required an underwater inspection. These dives
	were completed by Moffatt & Nichol's Association of Diving Contractors International (ADCI) and EM385 compliant dive
	team. Scheduled the inspections through close coordination with Range Control and the Department of Public Works to avoid
	impacting the daily activities of the installation. Performed final quality assurance report reviews.
03/24-Ongoing	Mississippi Department of Transportation (MDOT), 2023 IDIQ Underwater Bridge Inspection, Statewide. Project
	Manager for a three-year retainer contract for Level I, II, and III underwater inspections of 72 bridges in MDOT Districts 4 and
	5 in accordance with FHWA BIRM, AASHTO MBE, current NBIS requirements and the MDOT PONTIS Inspection Manual
	for Bridges. Reviewed and evaluated critical structural conditions and communicated necessary actions of remedy. Responded
	within 24 hours to an emergency underwater bridge inspection request. Acoustic imaging techniques were utilized to identify
	structural deficiencies and determine the limits of scour.
08/20-Ongoing	USACE, Bridge and Waterfront Facility Inspections Services, Worldwide. Project Manager for the current five-year
	retainer contract to perform all types of NBIS bridge inspections on all types of bridges at installations throughout the world.
	Managed bridge and waterfront load rating tasks under this contract. All inspections incorporate some form of non-destructive
	testing for detailed data analysis. Performed a complex in-depth inspection and investigation with service life engineering of an
	80 yr-old concrete open whart that included, concrete core extraction, material testing, system health monitoring with 3D models,
	a deterioration analysis, and a life cycle cost analysis.

Eine and larged have	Maffatt & Nichal				Page 11 of 149		
Firm employed by Monaut & Nichol Name Jonethan Hind DE Verse of relevant experience with this employer 18							
Title Vice President / Pusiness Unit Leader				Vears of relevant experience with other employer(s)	6		
Degree(s) / Vears /	Specialization		MS	/ 2001 / Civil and Environmental Engineering	0		
Degree(s) / Tears /	specialization		BS /	1993 / Environmental Science			
Active registration	number / state / expi	ration date	3220	99 / Louisiana / 09/30/2024			
Year registered	2006	Discipline	Civi	1 Engineer			
Contract role(s) / b	rief description of res	sponsibilities	Prin	cipal-in-Charge Meets MPR 1			
	1	1	Jona	than will serve as the Principal-In-Charge from the local M	offatt & Nichol office in		
			Bate	on Rouge, Louisiana and will be responsible for over-all pro	ject performance,		
			QA/	QC, and contracting.	• •		
Experience dates	Experience and qu	alifications releva	ant to	the proposed contract; i.e., "designed drainage", "desig	ned girders", "designed		
(mm/yy–mm/yy)	intersection", etc. I	Experience dates s	hould	cover the years of experience specified in the applicable M	PR(s).		
08/20-ongoing	LaDOTD, Underw	vater Bridge Insp	ectio	n Statewide, LA. Principal-in-Charge for the current five	-year retainer contract to		
	perform ~500 unde	erwater bridge ins	pectio	ons statewide including Level I, II, and III inspections of	submerged elements in		
	accordance with th	e ASCE Underwa	ter In	vestigations Standard Practice Manual and NBIS requirer	nents. Bridges inspected		
	consisted of single	single and multi-span bridges and culverts constructed of concrete, steel, and timber with high-resolution scanning					
	sonar of selected bi	inar of selected bridge elements. Advanced 3-D Acoustic imaging techniques were utilized to identify structural deficiencies					
	and determine the li	imits of scour insp		is of key Mississippi River Bridge Crossings, including the	vicksburg Bridge (1-20)		
	the Mississippi Riv	ng Dhuge (US-90)). The	team inimediately responded to an emergency request relat	ed to mgn nood levels m		
06/17-03/20	LaDOTD 2017 N	RIS Underwater]	Brida	e Inspection Retainer Contract Statewide Principal-ju	n-Charge for the current		
00/1/-03/20	five-vear retainer of	contract (2017-202	(1) to	perform underwater bridge inspections throughout Louis	iana. Level I. II. and III		
	inspections of subr	nerged elements y	vere 1	performed in accordance with the FHWA. BIRM. AASH	TO MBE. current NBIS		
	requirements and L	aDOTD engineeri	ng an	d maintenance directives. Provided oversight to the QA/QC	plan and QC reviews.		
09/13-06/17	LaDOTD, 2013 N	BIS Underwater 1	Bridg	e Inspection Retainer Contract, Statewide. Principal-in-	-Charge for the previous		
	five-year retainer c	ontract (2013-201	7) to	perform underwater bridge inspections throughout Louis	iana. Level I, II, and III		
	inspections of subr	nerged elements v	were]	performed in accordance with the FHWA, BIRM, AASH	TO MBE, current NBIS		
	requirements and L	aDOTD engineeri	ing ar	nd maintenance directives. Provided oversight to the QA/Q	C plan and QC reviews.		
	Monitored overall p	project performanc	e, qu	ality of work, invoicing, and updated related procedures to s	streamline processes.		
11/14- 09/16	Mississippi Depar	tment of Transpo	ortati	on (MDOT), Underwater Bridge Inspections, MS. Prin	cipal-in-Charge for this		
	three-year retainer	contract for Level	I, Lev	vel II, and Level III underwater inspections of 68 bridges in	MDOT Districts 1 and 2		
in accordance with the National Bridge Inspection Standards and MDO		Inspection Standards and MDOT PONTIS Inspection Ma	inual. Bridges inspected				
consisted of single-span and multi-span bridges and culverts constructed of concrete, steel, and timber; high				high-resolution scanning			
	sonar was used on s	B en ent enland ittel		s. Site conditions consisted of riverine conditions with vary	ing levels of current and		
	nlan NBIS ratings	for Item 60. Sub-	tructu	ueu a description of each structure and elements inspected, a	an underwater inspection		
	elements inspected	recommendations	s for r	enair and maintenance, and a channel contour drawing	I CONULION STATES TOT AN		

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Firm employed by Moffatt & Nichol								
Name Bry	yan Tyson, PE, ADCI	Years of relevant experience with this employer	7					
Title Str	uctural Engineer	Years of relevant experience with other employer(s)	8					
Degree(s) / Year	rs / Specialization	Master of Science/2010/Civil Engineering; Bachelor of Science	/2008/Civil Engineering					
Active registrati	on number / state / expiration date	PE.0043425 / LA / 03-31-2025						
Year registered	2019 Discipline	Civil Engineer						
Contract role(s)	/ brief description of responsibilities	Assistant Project Manager and NBIS Underwater Team Lea	ader Meets MPR 4					
		Bryan will be responsible for planning, directing, and monitorin	g all aspects of the					
		underwater inspection contract, including being a team leader of	n-site during the					
		underwater inspections.						
Experience date	s Experience and qualifications releva	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "desig	ned girders", "designed					
(mm/yy-mm/yy	<i>intersection</i> , etc. Experience dates s	hould cover the years of experience specified in the applicable M	PR(s).					
07/23-ongoing	LaDOTD, Underwater Bridge Insp	ection Statewide, LA. Structural Engineer and Team Leader	for the current 5-year					
	retainer contract to perform underwat	er bridge inspections throughout Louisiana for the Louisiana Dep	partment of					
	Transportation and Development, inc	luding 100 percent visual inspections of submerged elements in a	ccordance with National					
	Bridge Inspection Standards requirem	Bridge Inspection Standards requirements. Served as inspector for the underwater inspection of concrete, steel, and timber						
	bridges.							
10/23-ongoing	3 Hollingshead Dock Inspection, Pan	ama City, FL. Team Leader and Engineer Diver for the underw	vater inspection of a steel					
	bulkhead relieving platform built in the	he 1920s. Performed Level I, II, and III inspections of submerged	d elements in accordance					
	with the ASCE Underwater Invest	tigations Standard Practice Manual and ASCE Waterfront F	acilities Inspection and					
	Assessment. QC review of the dock le	oad, the existing structural configuration, and the inspection mem	10.					
03/24-ongoing	g MDOT, Underwater Bridge Inspec	DOT, Underwater Bridge Inspection, Statewide, MS. Project Manager and Team Leader for a 1-year retainer contract						
	to perform underwater inspections the	roughout Mississippi for the Mississippi Department of Transport	tation, including 100					
	percent visual inspections of submerg	ed elements in accordance with National Bridge Inspection Standards requirements.						
	Served as inspector for the underwate	er inspection of concrete, steel, and timber bridges.	-					
09/23-10/23	NCSPA, Berths 3&4 WFI and Crai	ne Rail Assessment, NC. Coordinated underwater inspection of l	Berths 3 and 4, including					
	the development of inspection plans,	and uploaded inspection notes. Inspection included steel bulkhead	ds and concrete piles.					
08/22-08/22	Bulkhead and Dock Assessment, J	Key West, FL. Structural Engineer and Team Lead for the	above- and underwater					
	inspection of a timber dock and steel bulkhead in Key West, Florida. Performed Level I, II, and III inspections of submerged							
	elements in accordance with the ASC	CE Underwater Investigations Standard Practice Manual and AS	CE Waterfront Facilities					
Inspection and Assessment.								
04/22-04/22	Santa Cruze Tsunami Inspection, S	anta Cruze, CA. Structural inspection of the floating docks in a h	arbor following the 2022					
	volcanic eruption near Tonga and the	e tsunami that ensued. Inspection included concrete piles, dock f	loats, structural framing,					
and the inspection of the timber framing members on a fixed dock. Performed Level I, II, and III inspections of								
	elements in accordance with the ASC	CE Underwater Investigations Standard Practice Manual and AS	CE Waterfront Facilities					
	Inspection and Assessment.							

09/16-10/16	TxDOT EBDG Galveston Bolivar Ferry Landing Repairs, Bolivar Peninsula, TX. Engineer Diver on an above-water and below-water inspection of the marine facilities. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.
05/16-08/18	LaDOTD Underwater Bridge Inspections (2014-2019), Statewide, LA. Structural Engineer for the 5-year retainer contract (2014 to 2019) to perform underwater bridge inspections throughout Louisiana for the Louisiana Department of Transportation and Development, including 100 percent visual inspections of submerged elements in accordance with National Bridge Inspection Standards requirements. Served as inspector for the underwater inspection of 20 concrete, steel, and timber bridges.
05/16-07/16	Port Freeport – Underwater Inspection of Berths 1, 2, 3, 5 & 7, Freeport, TX. Team Lead and Structural Engineer for the underwater inspection of approximately 3100 linear feet of steel bulkhead. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.

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Firm emplo	Firm employed by Moffatt & Nichol							
Name Heidi Kuntz, PE				Years of relevant experience with this employer	<1			
Title	Struct	ural Engineer		Years of relevant experience with other employer(s)	28			
Degree(s) /	Years /	Specialization		Bachelor of Science /1996 / Civil Engineering				
Active regis	stration	number / state / expiration	n date	PE.0048737 / LA / 09/30/2024				
Year registe	ered	2024 I	Discipline	Civil Engineer				
Contract rol	le(s) / bi	rief description of respons	bilities	QA/QC Manager				
				Heidi will develop the Quality Assurance and Quality Control	l program to provide a			
				mechanism by which all deliverables will be subject to a syst	ematic and consistent			
				review and will oversee the quality reviews.				
Experience	dates	Experience and qualific	cations releva	nt to the proposed contract; i.e., "designed drainage", "des	signed girders", "designed			
(mm/yy–mr	n/yy)	intersection", etc. Exper	rience dates s	nould cover the years of experience specified in the applicable	MPR(s).			
02/24-04	/24	LaDOTD, Underwater	Bridge Insp	ections, Statewide LA. QA/QC Reviewer providing QC/QA	A for the inspection reports			
		generated of submerged	element insp	ections to assure compliance with NBIS requirements. This inc	ludes reviewing the reports			
		for discrepancies or devi	ations from t	ne NBIS, verifying accuracy, and recommending modification	S			
03/24-Ong	going	Mississippi Departmen	t of Transpo	rtation, Underwater Bridge Inspections, Statewide MS. QA	A/QC Manager developing			
		a Quality Management	Plan to assur	e compliance with the contract requirements and to adhere to M&N quality standards.				
		Provides QC/QA for the	e inspection	reports generated for submerged element inspections to assure compliance with NBIS				
		requirements. This inclu	udes reviewi	ig the reports for discrepancies or deviations from the NBI	S, verifying accuracy, and			
		recommending modifica	tions.					
2016-20)23	Caltrans Bridge Engine	eering Servi	es, Statewide, CA. Senior Bridge Engineer who supervised a	and directed staff engineers			
		in the routine and specia	l field invest	gations of existing bridge structures on the state and local high	way networks. Supervised			
		and directed staff engine	ers' reporting	of their investigations in comprehensive written engineering re-	ports. Reviewed inspection			
		reporting of the area bri	dges (over 3	300 structures) for accuracy in accordance with the NBIS Pe	rformed bridge inspections			
		with staff to assess skill	ls, knowledg	e, and individual training needs, then developing, coaching, a	ind training. Responded to			
		bridge emergencies, dire	ected the staf	, and coordinated emergency repairs with various Caltrans ar	d outside units. Performed			
		technical reviews of proj	ject documen	s (planning studies, APS, GP, design plans, value analysis stu	dies, as-builts, etc.)			
2011-20)16	Caltrans Bridge Main	itenance and	I Inspections, Statewide, CA. Area Bridge Maintenance	Engineer (ABME) who			
		performed routine inspec	ctions of over	550 state (Districts 2 and 3) and local bridges in 5 counties in C	alifornia. Performed bridge			
		load ratings (simple time	ber only). Pre	pared comprehensive written reports accurately and timely in	accordance with the NBIS.			
		Created preventative ma	intenance rec	ommendations to extend the service life of structures. Perform	ed QC reviews of Fracture			
Critical Inspection and other Team Le				eaders. Provided emergency response for earthquakes, high lo	ad hits, fire damage, scour,			
etc. Provided direction for emergency repair wo				repair work. Coordinated with other Caltrans units, FHWA, and	nd Local agencies to ensure			
		identified deficiencies	were address	ed. Coordinated and conducted public hearings when post	ing local agency bridges.			
		Performed technical rev	iews of proje	ct documents (planning studies, APS, GP, design plans, value	analysis studies, as-builts,			
		etc.).						

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Firm emplo	Firm employed by Mottatt & Nichol						
Name	Jeffrey	/ Gazarek, ADCI		Years of relevant experience with this employer	8		
Title	Safety	Manager		Years of relevant experience with other employer(s)	14		
Degree(s) /	Years /	Specialization		ommercial Diving with Concentration in Subsea Inspection / 2	2005 / Divers Institute of		
Active regi	stration	number / state / expiration date	N/	/A			
Year regist	ered	N/A Discipl	ne N/	/A			
Contract role(s) / brief description of responsibilities			s Sa Je pe	afety Manager, NBIS Underwater Team Leader, and Acou ffrey will develop the overall project safety plan, site safety n reform NBIS underwater inspections, and acoustic imaging.	stic Imaging nanager, lead and		
Experience (mm/yy-m	dates m/yy)	Experience and qualifications intersection", etc. Experience	relevant lates shou	to the proposed contract; <i>i.e.</i> , "designed drainage", "designed cover the years of experience specified in the applicable M	gned girders", "designed IPR(s).		
05/21-Ongoing LaDOTD, Underwater Bridge Insp for the current five-year retainer con II, and III inspections of submerged e and LaDOTD requirements			e Inspect er contrac ged elem	ions, Statewide. Safety Manager, Engineering Technician at 2020-2025 to perform underwater bridge inspections througe ents in accordance with the FHWA BIRM, AASHTO MBE, co	Diver, and Team Leader ghout Louisiana. Level I, urrent NBIS requirements		
06/17-12/20 LaDOTD, Underwater Bridge Ins Technician Diver, and Dive Superv throughout Louisiana. Level I, II, ar MBE, current NBIS requirements, a deficiencies and determine the limit			Inspect pervisor II, and II nts, and I limits of	For the five-year retainer contract 2017-2021 to perform unde I inspections of submerged elements in accordance with the I LaDOTD requirements. Acoustic imaging techniques were u f scour, to perform emergency underwater investigations, ar	rwater bridge inspections FHWA BIRM, AASHTO used to identify structural and bridges over high-risk		
11/15-03/17 LaDOTD, Underwater Bridge Ins Leader for the five-year retainer con II, and III inspections of submerged e and LaDOTD requirements Image: constrained			e Inspecter contracter contracter contracter by the second	tions, Statewide. Site Safety Specialist, Engineering Tech et 2012-2017 to perform underwater bridge inspections throu ents in accordance with the FHWA BIRM, AASHTO MBE, cu	nician Diver, and Team ghout Louisiana. Level I, urrent NBIS requirements		
03/20-04/20LaDOTD, In-Depth Bridge InspectSite Safety Specialist, and Senior Dbridge inspections on complex and rperforming complete in-depth inspectmeasure for the District personnel foelements in accordance with the FHBridge Inspection Manual (BIM) witgirders, movable swing span bridges			spections ior Dive and mov nspection nel for th ne FHWA A) will bo idges, ba	s, Statewide. Engineering Technician Diver, Dive Supervise Supervisor for the current five-year retainer contract (2019-2 rable bridges throughout Louisiana. As the primary subconsu- ns (fulfilling both routine and fracture critical inspection type e Headquarters Bridge Inspection Office. Level I, II, and III is A, BIRM, AASHTO MBE and BEIM, current NBIS require e required as needed. Bridge types include cantilever trusses scule bridges, cable-stayed bridges, and bridges of various co	or, Sonar Specialist, and 2024) to perform in-depth altant to HTNB, M&N is es) as a quality assurance inspections of submerged ments, and the LaDOTD , segmental concrete box onfigurations with timber		
03/24-Ongoing Mississippi Department of Transportation (MDOT), 2023 IDIQ Underwater Bridge Inspection, Jackson, N Manager responsible for the review and approval of dive and field safety plans for specialty access projects, both				n , Jackson, MS. Safety projects, both above and			

	below water. This includes oversight of diving operations, rope access, fall protection, mobile elevated work platforms, and
	confined space safety.
10/22-10/22	USACE, Bridge Inspection Services at USAG Fort Polk, Leesville, LA. Project Safety Manager, and Inspection Team
	Member responsible for field inspections and safety oversight. This task order covered the inspection of 63 bridges and
	preparation of reports per NBIS and USACE procedures. Field inspections required extensive coordination with DPW and range
	control to avoid affecting base operations. Four bridges required an underwater inspection. Duties included presite visit dive
	plan and safety plan review, and on-site bridge inspector.

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Firm emplo	yed by	Moffatt & Nicho	l					
Name	ne Martin Anderson, PE, ADCI				Years of relevant experience with this employer	5		
Title	Struct	ural Design Engineer	ſ		Years of relevant experience with other employer(s)	4		
Degree(s) /	Years /	Specialization		Mas	ter of Science / 2020 / Structural Engineering			
				Bacl	helor of Science / 2014 / Civil Engineering			
Active regis	stration	number / state / expi	ration date	9255	53 / CA / 09-30-2025			
Year registe	ered	2021	Discipline	Civi	1 Engineer			
Contract ro	le(s) / bi	rief description of re-	sponsibilities	NBI	S Underwater Team Leader			
				Mar	tin will serve as NBIS Team Leader on underwater inspecti	on teams to complete		
		1		Leve	el I, II, and III inspections			
Experience	dates	Experience and qu	alifications releva	ant to	the proposed contract; i.e., "designed drainage", "desig	ned girders", "designed		
(mm/yy-m	m/yy)	intersection", etc.	Experience dates s	should	cover the years of experience specified in the applicable M	IPR(s).		
09/22-04	4/23	USACE, Bridge I	nspection Service	es at 1	USAG Fort Polk, Leesville, LA. Assistant Project Man	ager and Team Leader		
		responsible for field	d inspections and 1	report	preparation. This task order covered the inspection of 63 br	idges and the preparation		
		of reports in accord	lance with NBIS a	and US	SACE procedures. Field inspections required extensive coo	rdination with DPW and		
		range control to av	oid affecting base	opera	tions. Four bridges required an underwater inspection. Duti	es included coordinating		
		inspection logistics	with base person	inel, pi	roviding inbrief and outbrief presentations, and preparing r	eports. Reports included		
		detailed findings, s	site plans/sketches	s, phot	ographs, channel profiles, installation status reports, repai	r recommendations with		
00/22.0/	1/22	estimated repair co	sts, and updated S	$\frac{1 \times A}{2}$	lata.	T 1 '11		
09/22-04	+/23	Bridge Inspection	s at Red River A	rmy D	Jepot, Texarkana, IX. Assistant Project Manager and T	eam Leader responsible		
		in accordance with	s and report prepa	CE m	. This task order covered the inspection of 56 bridges and t	he preparation of reports		
		in accordance will	n NBIS and USA	CE pi	rocedures. Duties included coordinating inspection logistic	ings site plans/sketches		
		photographs chan	al profiles install	ations	tatus reports repair recommendations with estimated repair	angs, she plans/sketches,		
		data	iei promes, instant	ations	tatus reports, repair recommendations with estimated repair	costs, and updated ST&A		
02/19-12	2/20	LaDOTD Unders	vater Bridge Insi	nectio	n Contract Statewide Team Member Engineer and D	iver on the current five-		
02/17/12	2/20	vear retainer contra	ict to perform und	erwate	er bridge inspections throughout Louisiana including 100 n	ercent visual inspections		
		of submerged elen	ents in accordan	ce wit	th National Bridge Inspection Standards (NBIS) requirement	nents Involved with the		
		production and rev	iew of reports. 984	40-	an reactional Dirage inspection Standards (redits) requirement			
11/14 - 0	5/18	USACE. Indefinit	te Delivery Type	e Cont	ract for Engineering. Design, and Associated Enginee	ering Support Services.		
		Worldwide. Inspe	ctor/Team Lead	er/Div	ver for this contract to provide routine hands-on, underw	vater, and special bridge		
		inspections for brid	lges on Army inst	allatio	ns worldwide for USACE Vicksburg District. The bridges	predominantly consisted		
		of vehicular and r	ailroad bridges th	nat cro	ossed waterways, highways, and railroads. All inspection	s performed per current		
		guidelines, includin	ng FHWA Bridge	Inspec	ctor's Reference Manual; AASHTO Manual for Bridge Eva	luation; ER 1110-2-111;		
		CFR Title 23, Part	650, Subpart C; N	NBIS;	and the USACE Manual EM385-1-1. Routinely coordinate	ed with the installations'		
		department of publ	ic works, range co	ntrol,	railroads, military police, and safety offices to provide a safe	e and efficient inspection		
	plan with activities scheduled around troop training and other installation activities. Diver/team member for the inspe							

waterfront pier facilities. Facilities included the Military Ocean Terminal in Concord, California; Sunny Point, North Carolina;
and Yokohama North Dock, Japan.

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Firm employe	d by Moffatt & Nichol						
Name H	Eric Jones, EI, ADCI			Years of relevant experience with this employer	1		
Title S	tructural Associate			Years of relevant experience with other employer(s)	3		
Degree(s) / Y	ears / Specialization		BS /	2023 / Civil Engineering			
Active registr	ation number / state / expirat	ion date	EI.0	035700 / LA / 09/30/2024			
Year registere	d 2024	Discipline					
Contract role(s) / brief description of respo	onsibilities	NBI	S Underwater Team Leader			
			Eric	as NBIS Team Leader on underwater inspection teams to c	omplete Level I, II, and		
			III ir	nspections.			
Experience da	tes Experience and quali	fications releva	ant to	the proposed contract; i.e., "designed drainage", "desig	ned girders", "designed		
(mm/yy-mm/	yy) intersection", etc. Exp	perience dates sl	hould	cover the years of experience specified in the applicable M	.PR(s).		
08/23-Ongoin	g LaDOTD, Underwat	er Bridge Insp	ection	Contract, Statewide, LA. Structural Associate who perfo	ormed underwater bridge		
	inspections, schedulin	ig, and coordina	ating v	with the local parish's emergency response teams for the c	current five-year retainer		
	contract. Level I, II,	and III inspect	tions	of submerged elements are performed in accordance wit	th the Federal Highway		
	Administration (FHV	VA), Bridge In	spect	ion Reference Manual (BIRM), American Association	of State Highway and		
	Transportation Officia	als (AASHTO),	MBE	E, current NBIS and SNBI requirements and LaDOTD requ	uirements. Assisted with		
	managing report schee	duling and repor	rt writ	ing.			
10/23-01/24	Marine Corps Suppo	ort Facility (MC	CSF) I	Blount Island, Jacksonville, FL. Engineer Diver who per	formed above and below		
	water level I, II, and I	II field inspection	ons in	accordance with the EM 385-1-1 and ASCE MOP 130. The	e design-level inspection		
	includes assessment o	f the concrete pi	iles, pi	ile caps and sheet piles to create drawing details for each rep	air. Created design-level		
	details for the defects	listed on Berth	1 and	2. (2023) 10954-13			
09/23-10/23	Port of Wilmington	Underwater I	Inspec	ctions, Wilmington, NC. Engineer Diver who performe	ed a routine underwater		
	inspection combined	with the Upgra	de De	esign Inspection guidelines provided in the ACE MOP 13	30, Waterfront Facilities		
	Inspection and Assess	ment. Level I, I	I, and	III inspection on precast concrete piles and square fender p	piles, and a special crane		
	upgrade assessment of	f Berths 3 and 4	•				
2016	Florida Department	of Transportat	tion (FDOT) Inspections, Statewide, FL. Diving Inspector wh	no performed Level I, II,		
	and III inspections on	submerged elen	nents i	in accordance with the Federal Highway Administration (FF	IWA), Bridge Inspection		
	Reference Manual (BI	RM), American	a Asso	ciation of State Highway and Transportation Officials (AAS	HTO), MBE, and FDOT		
	requirements. Inspections were completed using a remotely operated vehicle (ROV) and diving equipment.						

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Firm employed by	Moffatt & Nichol								
Name Christ	opher "Chip" Eschenbach, ADCI	Years of relevant experience with this employer	6						
Title Engine	eering Technician-Diver	Years of relevant experience with other employer(s)	0						
Degree(s) / Years /	Specialization	AS / 2015 / Welding Technology							
Active registration	number / state / expiration date	N/A							
Year registered	N/A Discipline	N/A							
Contract role(s) / b	rief description of responsibilities	NBIS Underwater Team Leader and Acoustic Imaging	- Chip will help provide						
		direction, experience and safe practices during field inspect	tions.						
Experience dates	Experience and qualifications releva	int to the proposed contract; i.e., "designed drainage", "d	lesigned girders", "designed						
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicab	le MPR(s).						
07/21-Ongoing	LaDOTD, Underwater Bridge Insp	ections, Statewide, LA. Engineering Technician Diver re	sponsible for maintaining the						
	diving and inspection equipment, p	lanning and preparing all necessary tools and information	1, providing field notes and						
	observations, and writing reports. Pro	vides routine maintenance of the inspection equipment, pro	per record keeping, using the						
	manufacturer recommendations to ma	intain high standards for our inspections and ensuring that t	he industry standards are met						
	before anything is used. Identifies the	ne inspection locations for planning and preparation, revie	ws previous inspection data,						
	identifies the proper lodging and safe	y accommodations, confirms tools are available for use, and	confirms that safety concerns						
	are addressed. Providing field notes a	nd observations of the field data collection process, using a d	inver or non-diving inspector,						
	and taking photos, video, of using act $\Omega \Lambda / \Omega C$	busite imaging to conect data. Assists in the report developin	ent process and the rounds of						
	LaDOTD 2017 NBIS Underwater	Pridge Inspection Detainer Contract Statewide NPIS I	nonator for the ourrant five						
	vear retainer contract to perform I ex	wels I. II. and III underwater bridge inspections in accordan	ce with NBIS and AASHTO						
00/10-03/20	Manual for Bridge Element Inspection Completed underwater inspection fieldwork inspection reports and quality control								
07/17-03/20	reviews. Underwater acoustic imaging techniques was used to locate structural deficiencies identify potential undermining								
	observe the limits of scour and docu	nent the limits of rinran installations	ming potential anaermining,						
	Mississinni Denartment of Tran	montation, 2023 IDIO Underwater Bridge Inspectior	s. Statewide Engineering						
	Technician Diver responsible for ma	intaining the diving and inspection equipment, planning and	preparing all necessary tools						
	and information, and providing field	and information and providing field notes and observations. Maintaining the inspection equipment, plaining and providing field notes and observations.							
04/24-Ongoing	proper record keeping, using the mar	ufacturer's recommendations to maintain high standards for	our inspections and ensuring						
	that the industry standards are met be	fore anything is used. Planning and preparation have include	led the tools are available for						
	use and that all safety concerns are ad	dressed. Providing field notes and observations refers to the	field data collection process,						
	using a diver or a non-diving inspector, and taking photos or video are the techniques Chip uses to retrieve field data.								

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Firm employed by	Firm employed by Monatt & Nichol							
Name Char	les Balzarini, PE, ADCI			Years of relevant experience with this employer				
Title Civil	Engineer			Years of relevant experience with other employer(s)				
Degree(s) / Years	/ Specialization		BS /	2008 / Civil Engineering				
Active registration	n number / state / expirat	tion date	AEL	C13854 / Alaska / 12-31-2025				
Year registered	2013	Discipline	Civi	Engineer				
Contract role(s) /	orief description of resp	onsibilities	NBI	S Underwater Team Leader				
			Char	les will serve as NBIS Team Leader on underwater inspect	ion teams to complete			
			Leve	el I, II, and III inspections. He will be responsible for the qu	ality of field inspection			
P 1		• ~ • • •	work	and will be integral to the report quality review process.	1 · 1 · 1 · 1			
Experience dates	Experience and qual	ifications releva	ant to	the proposed contract; <i>i.e.</i> , "designed drainage", "desig	,ned girders", "designed			
(mm/yy-mm/yy)	intersection", etc. Ex	perience dates s	should	cover the years of experience specified in the applicable M	PR(s).			
07/21-Ongoing	LaDOTD, Underwa	ter Bridge Insp	pection	n, Statewide. Team Leader, Engineer, and Senior QC	Reviewer on the current			
	five-year retainer cor	ntract 2020-2025	5 to pe	erform underwater bridge inspections throughout Louisian	a, including 100 percent			
	visual inspections of	submerged ele	ments	in accordance with National Bridge Inspection Standard	is (NBIS) requirements.			
0.0/04 0.0/00	Involved with the pro	duction and revi	iew of	reports.				
09/21-03/23	USACE, Bridge and	Underwater Fa	acilitie	s Inspections IDIQ - Fort Polk Bridge Inspections, LA. I	nspection Team Leader			
	who reviewed previou	us reports, perto	rmed r	outine bridge inspections and prepared new reports for brid	ges and large culverts on			
	Fort Polk. The Inspec	tion of existing	bridge	es was completed under the direct supervision of a registere	d Professional Engineer.			
00/10 10/00	A total of 63 bridges	were inspected.	D · 1		· · · · · · · · · · · · · · · · · · ·			
02/19-12/20	LaDOTD, 2017 NBI	S Underwater	Bridg	e Inspection Retainer Contract, Statewide. NBIS Inspe	ctor for the current five-			
	year retainer contract	t to perform Lev	vels I,	II, and III underwater bridge inspections in accordance w	1th NBIS and AASH10			
	Manual for Bridge E	lement Inspecti	1 Ion. Bi	ridge types inspected consisted of movable bridges, truss	bridges, timber stringer			
	bridges, cable-stayed	bridges, and sin	igle an	id multi-span girder bridges up to fourteen miles in length.	Site conditions included			
	salt and tresh waters,	with varying le	vels of	t current, having low to no visibility. UAI techniques were	used to locate structural			
	deficiencies and iden	tify bottom co	nditioi	is. Responsible for leading underwater inspection teams	to complete fieldwork,			
10/22 12/22	inspection reports, an	d quality contro		WS.	X 1 '11			
10/23-12/23	USACE Bridge & U	nderwater Fac	cilities	Inspections IDIQ – MicAlester AAP, Ok. Inspection 1	eam Leader responsible			
	for project planning	and preparation	, revie	wing previous reports, performing routine bridge inspect	ions, and preparing new			
	reports for bridges and large culverts on Fort Polk. The Inspection of existing bridges was completed under Charles' direct							
00/10 12/10	supervision. A total o	of 48 bridges wei	re insp		· · · · · · · · · · · · · · · · · · ·			
09/18-12/18	Quonset Pier I, Nor	tn Kingstown,	Khode	Island. Engineer-Diver for underwater and topside inspe	ction of Pier I owned by			
	the Quonset Develop	ment Corporatio	on. The	d timber piles and nonformed and determine testing in 1	ck constructed by the US			
	INAVY. M&N inspecto	ea over 1,200 w	vrappe	a timber piles and performed non-destructive testing incl	luding dissolved oxygen			
	testing, resistograph measurements on timber piles, and ultrasonic thickness testing of steel bulkhead members.							

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Firm employed by Moffatt & Nichol							
Name Mike	Breitenstein, PE, ADCI		Years of relevant experience with this employer	31			
Title Inspec	tion and Rehabilitation Senior		Years of relevant experience with other employer(s)	18			
Degree(s) / Years /	Specialization	MS /	1979 / Civil Engineering				
		BS /	1978 / Civil Engineering				
Active registration	number / state / expiration date	C328	342 / CA / 06-30-2026				
Year registered	1981 Discipline	Civil	Engineer				
Contract role(s) / b	rief description of responsibilities	NBIS	S Underwater Team Leader				
		Mike	e will as NBIS Team Leader on underwater inspection tean	ns to complete Level I,			
		II, an	d III inspections.				
Experience dates	Experience and qualifications relevant	nt to	the proposed contract; i.e., "designed drainage", "desig	gned girders", "designed			
(mm/yy–mm/yy)	intersection", etc. Experience dates sh	nould	cover the years of experience specified in the applicable N	IPR(s).			
06/17-03/20	LaDOTD, 2017 NBIS Underwater I	Bridg	e Inspection Retainer Contract, Statewide. NBIS Tear	n Leader for the current			
	five-year retainer contract to perform I	Levels	s I, II, and III underwater bridge inspections in accordance	with NBIS and AASHTO			
	Manual for Bridge Element Inspectio	on. Br	ridge types inspected consisted of movable bridges, truss	bridges, timber stringer			
	bridges, cable-stayed bridges, and sing	gle an	d multi-span girder bridges up to fourteen miles in length.	Site conditions included			
	salt and fresh waters, with varying lev	vels of	f current, having low to no visibility. UAI techniques were	e used to locate structural			
	deficiencies and identify bottom con	ditior	ns. Responsible for leading underwater inspection teams	s to complete fieldwork,			
	inspection reports, and quality control	revie	WS.				
03/14-03/17	Mississippi Department of Transpor	rtatio	n (MDOT), Underwater Bridge Inspections. NBIS Team	n Leader for a three-year			
	retainer contract for Levels I, II, and	III un	derwater inspections of 68 bridges in MDOT Districts 1 a	and 2 in accordance with			
	FHWA BIRM, AASHTO MBE, curre	nt NE	BIS requirements and the MDOT PONTIS Inspection Man	ual for Bridges. Acoustic			
	imaging techniques were utilized to d	eterm	ine the limits of scour and document the limits of riprap	remediation. Responsible			
6/10.05/10	for leading underwater inspection team	ns to c	complete fieldwork, inspection reports, and quality control	reviews			
6/18-05/19	Santa Monica Pier Condition Assess	sment	t and Rehabilitation, Santa Monica, CA. I eam Leader	and Dive Supervisor for			
	Construction Manager for the Dhase	ged ti	mber and concrete piles, and the above water structural	elements. He served as			
	construction Manager for the Phase		nabilitation project responsible for the condition assessm	ent of existing structural			
	functions for structural repairs, deals up	ar repa	ans along with overall management, inspection, administration with the sum	ation, and documentation			
	and replacement of pier ensurtenences	pgrau	es, emergency access ramp instantation, utility and me supp	pression, a righting study,			
00/12 06/17	and replacement of pier appurtenances	s. Prida	Inspection Detainer Contract Statewide NBIS Team	Landar for the provious			
09/13-00/17	five year retainer contract to perform I	Jugo	L II and III underwater bridge inspections in accordance a	with NBIS and AASHTO			
	Manual for Bridge Element Inspection, Responsible for leading underwater inspection teams to complete fieldwork, inspection						
	reports and quality control reviews	1 I I C S	I techniques were utilized to locate structural deficie	ncies identify notential			
	undermining observe the limits of soo	bir an	ad document the limits of rinran installations	neres, ruentity potential			
08/15-12/17	Newnort Beach Pier Inspection and	Desi	on Services. Newnort Beach CA Team Leader and Di	ve Sunervisor for above			
	and underwater structural inspection	of tin	nber nier, to evaluate ability to support a proposed 3-sto	ry restaurant. The report			
1		U 1 1 1 1 1					

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Firm employed by	Moffatt & Nichol						
Name Kyle I	Bailey. ADCI			Years of relevant experience with this employer	1		
Title Field	Technician Dive Supe	rvisor	1	Years of relevant experience with other employer(s)	15		
Degree(s) / Years /	Specialization		BS /	2004 / Art and Computer Technology			
			AA	/ 2002 / General Studies			
Active registration	number / state / expirat	tion date	N/A				
Year registered	N/A	Discipline	N/A				
Contract role(s) / b	rief description of resp	onsibilities	NBI	S Underwater Team Member			
			Kyle	e will perform Level I, II, and III underwater inspections.			
Experience dates	Experience and qual	ifications releva	ant to	the proposed contract; i.e., "designed drainage", "	gned girders", "designed		
(mm/yy–mm/yy)	intersection", etc. Ex	perience dates s	hould	cover the years of experience specified in the applicable M	IPR(s).		
03/23 - Ongoing	LaDOTD Underwa	ter Bridge Ins	pecti	on, Lafayette, Iberia Parish, LA. Dive Supervisor/D	iver/Technical III who		
	conducted and superv	vised level I, II,	and I	II underwater inspections of public bridges and underwate	r elements in accordance		
	with the FHWA, BIR	M, AASHTO, I	MBE,	current NBIS requirements and LaDOTD engineering and	d maintenance directives.		
	Visual and tactile init	ial and routine in	nspect	tions using wading and surface-supplied diving techniques.	Equipment used for data		
	and inspection purpos	ses including but	not li	mited to digital cameras, hand-sounding devices, various cl	eaning tools, and sub-sea		
	imaging devices. Assi	isted with post-in	ispect	tion reports, comparative data recording, depth sounding, da	ta analysis, and condition		
assessment/ratings for multiple bridge types and aggregates				pes and aggregates including steel, timber, and concre	ete construction. Report		
	development and crea	ating AutoCAD	drawi	ngs for client post-inspection.			
06/23 - Ongoing	Virginia Departmen	t of Transporta	ation	(VDOT), Underwater Bridge Inspection, Norfolk, VA. 1	Diver/Technical III who		
	assisted with underwa	ater bridge inspe	ctions	for various bridges in and around Norfolk, VA. All inspec	ctions were in accordance		
	with the FHWA, BIF	RM, AASHTO,	MBE	, current NBIS requirements and VDOT engineering and	l maintenance directives.		
	Visual and tactile init	ial and routine in	nspect	tions using wading and surface-supplied diving techniques.	Equipment used for data		
	and inspection purpos	ses including but	not li	mited to digital cameras, hand-sounding devices, various cl	eaning tools, and sub-sea		
	imaging devices. Assi	isted with post-in	ispect	ion reports, comparative data recording, depth sounding, da	ta analysis, and condition		
	assessment/ratings for multiple bridge types and aggregates including steel and concrete construction.						
03/23-04/23	Hunnington Ingals ((HII) Condition	n Asse	essment, Pascagoula, MS. Diver/Technical III conducted	d topside and underwater		
	level I, II, and III ins	spection of floa	ting d	ry dock and port ship birthing bulkheads using surface su	applied air. Assessed the		
	condition of steel pile	s and sheet piles	using	visual, tactile, and technological inspection methods (UT).	Compared and evaluated		
	existing defects from	previous inspec	tions	while inspecting for new defects to relay to the client. Took	photos, CP readings, and		
	thickness readings of all defects and assisted with data recording, evaluation, post inspection reports, and all diving operations						

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Firm employed by	Moffatt & Nichol							
Name Louis Baeza				Years of relevant experience with this employer	3			
Title Engine	eer Diver			Years of relevant experience with other employer(s)	5			
Degree(s) / Years /	Specialization		BS /	2019 / Civil Engineering				
Active registration	number / state / expirat	ion date	N/A					
Year registered	N/A	Discipline	N/A					
Contract role(s) / b	rief description of respo	onsibilities	NBI	S Underwater Team Member				
			Lou	is will perform Level I, II, and III underwater inspections.				
Experience dates	Experience and quality	ifications releva	nt to	the proposed contract; i.e., "designed drainage", "designe	d girders", "designed			
(mm/yy–mm/yy)	intersection", etc. Ex-	perience dates sl	hould	cover the years of experience specified in the applicable MPI	R(s).			
11/22-03/23	LaDOTD, Underwat	ter Bridge Insp	ectio	ns, Statewide, LA. Team Member who performed underwate	er bridge inspections			
	throughout Louisiana.	. The Level I ins	pection	ons of submerged elements were performed in accordance wit	h the FHWA, BIRM,			
	AASHTO MBE, curre	ent NBIS require	ement	ts and LaDOTD engineering and maintenance directives. Add	itionally, he assisted			
	in preparing inspectio	n reports and pe	rform	ning QC reviews.				
02/23-Ongoing	Port of Long Beach	(POLB), On Ca	all Wa	aterfront Facilities Inspection, Long Beach, CA. Engineer	and Diver for above			
	and underwater inspec	ction and condit	ion as	ssessment of POLB waterfront facilities. Underwater inspectio	on tasks performed			
	included Levels I and	II. Additionally	, he a	ssisted in preparing dive supervisor notebook, safety documer	nts, and inspection			
	reports.							
11/22-04/22	LaDOTD, Statewide	Inventory and	Insp	ection of Sign Trusses, Statewide, LA. Inspection Team M	ember who assisted			
	in completing overhead sign truss inspections throughout Louisiana. Ancillary inspections include steel and aluminum welds,							
	high stress moment connections, and fracture critical elements in accordance with Federal Highway Administration (FHWA)							
	guidelines. He perform	ned Level I, II,	and II	I inspections on all assessed signs for each location and prepa	red inspection			
	reports. Level III insp	ection work incl	luded	ultrasonic testing on bolted connections.				

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Firm emplo	oyed by	Moffatt & Nichol				
Name	Wade	Wise, ADCI			Years of relevant experience with this employer	5
Title	Field 7	Fechnician II			Years of relevant experience with other employer(s)	0
Degree(s) /	Years /	Specialization		AA /	/ 2011 / General Education	
Active regi	istration	number / state / expirati	on date	N/A		
Year regist	ered	N/A	Discipline	N/A		
Contract ro	ole(s) / b	rief description of respo	nsibilities	NBI	S Underwater Team Member	
				Wad	e will lead and perform Level I, II, and III underwater insp	ections.
Experience	e dates	Experience and quality	fications releva	ant to	the proposed contract; i.e., "designed drainage", "	gned girders", "designed
(mm/yy-m	m/yy)	intersection", etc. Exp	erience dates s	hould	cover the years of experience specified in the applicable M	IPR(s).
10/19-12/2	0	LaDOTD, Underwate	er Bridge Insp	ection	I Contract, Statewide, LA. Inspection Team Member fo	r the five-year retainer
		contract 2017-2021 to	perform under	water	bridge inspections throughout Louisiana, including 100 pe	rcent visual inspections
		of submerged element	s in accordance	with	National Bridge Inspection Standards (NBIS) requirements	s. Task 3, Underwater
		Bridge Inspections, Di	stricts 3, 7, and	161. T	'eam member and diver for the underwater inspection with	acoustic imaging of
		approximately 400 brid	dges over large	river	crossings. Involved with production and review of post ins	pection bridge reports.
		Responsible for day-to	-day field oper	ations	, and maintenance of diving equipment and vehicles. Task	6, Underwater Bridge
		Inspections, District 62	2. Team member	er and	diver for the underwater inspection of bridges over large r	iver crossings. Involved
		with production and re	view of post in	specti	on bridge reports. Responsible for day-to-day field operation	ons and maintenance of
		diving equipment and	vehicles.			
02/20-04/2	20	Port of Houston, Fac	ility Inspection	n and	Condition Assessment, Houston, TX. Inspection Team	Member for the
		underwater port struct	ures including	timber	; steel, and concrete elements, and the shoreline and bulkhe	ead components.
		Responsible for day-to	-day field oper	ations	and maintenance of diving equipment and vehicles.	
04/20-05/20	0	Colorado Departmen	t of Transpor	tation	, Underwater Bridge Inspection, Gunnison, CO. Team	Member and Diver for
the Engineering Operations inspection t				n team	n of the Blue Mesa Reservoir. Responsible for day-to-day f	ield operations and the
maintenance of diving equipment and vehicles. Oversaw the construction and implementation of a re-						uired onsite
		decompression chamb	er and spread.	Mainta	ained and repaired equipment involved in the decompression	on spread onsite.
08/20-12/20	0	Montana Departmen	t of Transport	ation,	, Underwater Bridge Inspection, Billings, MT. Team me	ember and diver for the
		Engineering Operation	is inspection te	am for	the current contract to perform underwater bridge inspecti	ons throughout
Montana. Responsible for day-to-day field operations and maintenance of diving equipment and vehicles.						les.

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Firm emplo	yed by	Moffatt & Nichol					
Name	Armar	ando Gonzalez, ADCI			Years of relevant experience with this employer	1	
Title	ADCI	Dive Supervisor			Years of relevant experience with other employer(s)	19	
Degree(s) /	Years /	Specialization		N/A			
Active regis	stration	number / state / expirati	on date	N/A			
Year registe	ered	N/A	Discipline	N/A			
Contract rol	le(s) / b	rief description of respo	nsibilities	NBI	S Underwater Team Members		
		1 1		Arm	ando will perform level I, II, and III underwater inspections		
Experience	dates	Experience and quality	fications releva	ant to	the proposed contract; i.e., "designed drainage", "design	ned girders", "designed	
(mm/yy–mi	n/yy)	intersection", etc. Exp	perience dates s	hould	cover the years of experience specified in the applicable MI	PR(s).	
10/23 - Ong	going	LaDOTD Underwate	r Bridge Insp	ection	s, Statewide. Team Leader who performed underwater brid	dge inspections using	
		surface supplied and S	CUBA diving.	He also worked in the report process creating draft reports and QC report reviews.			
03/24 - Ong	going	Mississippi DOT, 202	3 IDIQ Under	rwatei	r Bridge Inspection, Statewide. Team Leader who perform	ned underwater bridge	
		inspections using surfa	ace supplied an	d SCU	JBA diving. He also worked in the report process creating d	raft reports and QC	
		report reviews. He wor	rked on the pla	nning	and logistics of the inspection trips.		
06/23 - 09/2	23	Port of Long Beach,	On-call Engin	eering	g Waterfront Facilities Inspection and Assessment Servic	es, California. Diver/	
		Inspector who perform	ned inspection	s of bo	oth topside and underwater on wharves and marine terminals	s. He also worked on	
		logistics and planning	of inspection ta	ask oro	ders.		
05/19 - 04/2	23	Port of Long Beach, Facilities Maintenance, Inspection, and Assessment Tasks, California. Diver/ Inspector who					
		performed under water	r inspections ar	nd asse	essments of wharves and terminals as a member of the Port of	of Long Beach Dive	
		team. He worked on th	e inspection and	nd mai	ntenance of cathodic protection systems throughout the Port	t of Long Beach. He	
		also worked on planning	ng and logistic	s for ta	asks issued by the port engineer.		

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Firm employed by	Moffatt & Nichol				
Name Herod	otos Pentas, PhD, PE		Yea	rs of relevant experience with this employer	2
Title Senior	Title Senior Bridge Engineer			rs of relevant experience with other employer(s)	32
Degree(s) / Years /	Specialization		PhD / 199	00 / Civil Engineering	
	-		MS / 198	5 / Civil Engineering	
			BS / 1984	/ Civil Engineering	
Active registration	number / state / expiration	ion date	24660 / L	A / 09-30-2024	
Year registered	1992	Discipline	Civil Eng	ineer	
Contract role(s) / b	rief description of respo	nsibilities	Rehabili	ation/Load Rating/Scour Evaluations/Vessel Collis	sion Analysis
			Dr. Penta	s will perform rehabilitation design, load ratings, scou	r evaluations, and vessel
			collision	analysis as needed.	
Experience dates	Experience and quali	fications releva	ant to the	proposed contract; i.e., "designed drainage", "desig	gned girders", "designed
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates s	should cove	r the years of experience specified in the applicable M	IPR(s).
02/23-Ongoing	Mississippi Departm	ent of Transpo	ortation O	ffice of State Aid Road Construction, Bridge Load	Ratings, MS. Lead and
	Structural Engineer	supervising the	e load rating	s on five bridges by creating models in AASHTOWa	re's Bridge Rating (BrR)
	for the superstructures	and LEAP for	r the substru	ictures in accordance with LRFR and LFR. Supervise	d the team that identified
	bridge defects from th	e inspection rep	ports, devel	oped a load rating report, and gave bridge posting rec	ommendations.
08/93-10/95	LaDOTD, S.P. 700-3	0-0002, Comp	olex Structu	res Load Rating, 37 Bridges, LA. Project Manag	er who load analysis and
	rating of 37 complex	steel and concr	rete bridges	using both working stress and load factor methods.	Structure types included
	simple and multi-span	steel curve pla	ate girders, s	simple and multi-span normal and skewed box girders	, and curved box girders.
06/97-06/99	LaDOTD, S.P. 737-9	9-0441 & 737-9	99-0158, A	ssessment of Bridge Damage by Watercraft Divisio	ons 2, 3, & 7, LA. Project
	Manager for the basel	ine inspections	s of fender	systems/substructures of 134 bridges to determine da	mages caused by marine
	vessels. Provided dam	age assessment	t, repair pla	n preparation, cost estimates, repair procedure, and rep	port. The project received
	national attention due	to its effectiver	ness and ex	ecution.	
06/06-06/08	LaDOTD S.P. No. 70	0-26-0293, Off	f-System B	ridge Replacement, Jefferson Parish, LA. Principal	-in-Charge for the design
	of preliminary plans for	or two concrete	e bridges. R	esponsible for hydraulic and structural calculations an	d plans.
01/95-05/97	LaDOTD, S.P. 700-9	9-0118, Struc	ctural Load	I Rating, 118 Bridges, La. Project Manager for los	ad rating of 118 bridges
	throughout the state. A	A majority of th	ne bridges w	vere prestressed concrete and steel plate girder design.	_

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Firm employed by Moffatt & Nichol							
Name Akash Chaurasia, PE					Years of relevant experience with this employer	<1	
Title	Bridge	Engineer			Years of relevant experience with other employer(s)	6	
Degree(s) /	Years /	Specialization		MS /	2018 / Civil Engineering with concentration in Structural En	ngineering	
				BTee	ch / 2016 / Civil Engineering		
Active regis	stration	number / state / expiration	on date	0048	0048883 / LA / 09/30/2024		
Year registe	ered	2024	Discipline	Civil	Engineer		
Contract rol	le(s) / bi	rief description of respon	sibilities	Reha	Rehabilitation & Load Rating		
				Akas	sh will provide will perform rehabilitation design and load ra	tings as needed.	
Experience	dates	Experience and qualify	ications releva	int to	the proposed contract; i.e., "designed drainage", "design	ed girders", "designed	
(mm/yy–mi	m/yy)	intersection", etc. Expe	erience dates sl	hould	cover the years of experience specified in the applicable MP	'R(s).	
05/24-06	5/24	LaDOTD, Underwate	r Bridge Insp	ectior	ns, Statewide. Bridge Engineer who provided quality contr	ol review of the bridge	
		reports.					
02/24-04	1/24	Mississippi Departme	ent of Transpo	ortatio	on, 2023 IDIQ Underwater Bridge Inspection, Statewide	e. Bridge engineer who	
		helped write code in Py	thon and JSO	N to g	enerate automated bridge reports. (230559)		
02/24-06	5/24	Mississinni Denartme	nt of Transpo	rtatio	on. Office of State Aid Road Construction, WA4 – Non C	omnlex Load Rating.	
02/2100		Covington County, M	S. Bridge Eng	ineer	who provided load rating analysis on the substructure and su	perstructure of a bridge.	
	The analysis incorporated all deficiencies from cracks and spalls to repairs found in the most recent inspection repo					spection report on load	
	rating. Inventory and Operating ratings were determined in accordance with LFR methodology. (222436/04)					6/04)	
04/22-04/22 Fred Hartman Bridge Inspection, Houston, TX. Bridge Engineer who performed unique fracture critical inspection					ritical inspection of the		
		2.6 mile Fred Hartman	Bridge. The lo	onges	t span is a 1250' cable stay. Involved with the inspections of	of girders, floor beams,	
		connections, and cables	5.				
04/21-04	04/21-04/21 Harbor Bridge Inspection, Corpus Christi, TX. Engineer for unique fracture critical inspection of a six-lane, 57-span, 5,89						
		long structure construction	ted in 1959 and	d cont	tains five main spans (27-31). The main spans consisted of 1	10 fracture critical truss	
		lines, 49 fracture critica	al floor beams,	and 1	0 fracture critical pins in span 29. Spans 27-31 are 271' long	, deck trusses supported	
		by concrete piers. Span	ns 28-30 are 12	240' lo	ong truss units consisting of a 387'-6" long suspended tied-a	arch segment supported	
	by two 116'3" long cantilever truss segments (span 29) and two 310' long anchor spans (spans 28-30). Involved with the lo						
	chord findings of all ten truss lines, which exhibited isolated locations of advanced corrosion with pitting.						
06/20-06	06/20-06/20 State Highway 130 Bridge Assessment, Seguin to Austin TX Bridge Engineer who inspected all the bridges and culverts						
on State Highway 130 between Seguin and Austin. Checked the relative movements of different members analyzed the						pers. analyzed the cause	
of the movements, and recommended repairs that would stabilize the bridge and prevent future movements. Wrote assessme						ents. Wrote assessment	
reports for each bridge/culvert using the geotechnical analyses performed by subconsultants for settlement analysis, sy						tlement analysis, swell	
	potential, stability analysis, and drill shaft analysis.						

	girder main span and eleven approach spans that carried four tracks of Metro-North Railroad (New Haven Mainline) over the Mianus River. Calculations were used to load rate the bridge.
06/19-01/20	Truss Bridge Load Rating, TX. Bridge Engineer who created the bridge model in LARSA software using design sheets to complete the load ratings. The model was analyzed for HS20 truck load which results were checked by supervisor.
05/19-02/20	Culvert Inspections and Load Ratings, Various Locations, TX. Inspection Team Member who provided load rating of culverts constructed in the early 1900s in several districts in Texas. Scanned through design sheets to get the design of the culvert to be load rated. An approximate structural design of the culvert was imported in the HDR specific software, which would recreate a finite element model into RISA 3D and perform the analysis using moving loads of HS20. The results would be imported back to the software and load rated. Rechecked the design and the calculations performed by the software using AASHTO code.

11/20-11/20

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Firm employed by Moffatt & Nichol								
Name	ris Leoncio, SE, PE, FBRSE	Years of relevant experience with this employer	4					
Title	Structural Engineer	Years of relevant experience with other employer(s)	12					
Degree(s) / Y	ears / Specialization	MS / 2003 /Civil and Environmental Engineering						
		BS / 2000 / Civil Engineering						
Active registr	ation number / state / expiration date	0047438 / LA/ 09-30-2025						
Year register	ed 2023 Discipline	Civil Engineer, Structural Engineer						
Contract role	(s) / brief description of responsibilities	Rehabilitation & Load Rating						
		Iris will perform rehabilitation design and load ratings as needed	ed.					
Experience d	ates Experience and qualifications releva	ant to the proposed contract; i.e., "designed drainage", "designed drain	gned girders", "designed					
(mm/yy–mm	(yy) intersection", etc. Experience dates s	should cover the years of experience specified in the applicable N	APR(s).					
02/20-07/20	Virginia Department of Transport	tation (VDOT), George P. Coleman Memorial Bridge (Rou	ite 17) over York River					
	Bridge Load Rating, Yorktown, VA	A. Senior Project Engineer responsible for the as-inspected load	d rating study of the truss					
	spans of the 3750-ft bridge, which co	onsists of steel girder approach spans, two fixed truss spans, two s	suspended truss spans and					
	two swing bridges. A three-dimension	nal finite element model is created in LARSA 4D to generate load demands on truss						
	members and the deck framing syste	em. Gusset plates are checked using Whitmore sections in accor	dance with the AASHTO					
Manual for Bridge Evaluation.								
08/21-05/24	Virginia Department of Transport	tation (VDOT), WBL Berkley Bridge (1-264) over the Easte	ern Branch of Elizabeth					
	River Floorbeam Repairs, Norfoll	k, VA. Project Manager responsible for the Stage II inspect	ion and repair design of					
	floorbeams in the 1/8-ft double-leaf	bascule span in order to improve the bridge load rating. The as-c	lesigned load rating study					
	was performed using AASHTOWare	e Bridge Rating (BrR). Restrictions by the U.S. Coast Guard and	d VDOT Hampton Roads					
	District on permissible lane and chann	nel closures, limited work hours at night, and the likelihood of uns	cheduled bridge openings					
	during construction add complexity to	o the design. Careful consideration of construction sequencing an	d the design of temporary					
	falsework, scaffolding, containment	structures and other attachments to the existing leafs is requ	lired. Provided Stage III					
02/21 04/22	construction phase services for review	construction phase services for review and consultation.						
02/21-04/23	Virginia Department of Transport	Virginia Department of Transportation (VDOT), Route 17 over the James River Bridge Beam Strengthening, Isle of						
	wright, vA. Project Manager who	wright, vA. Project Manager who oversaw the repairs to prestressed concrete beams to improve the load rating of the 4.4-						
	mile oridge, which consists of 502 approach spans and a vertical lift span for each northbound and southbound direction. Ca							
Fiber Kennorced Polymer (CFKP) is used to target 29 beams with significant strand losses. Various anchoring metr								
tachniques, including CDADD IT achieves analyses are also evoluted. Avoiding long on Deute 17, may								
	the officient use of evailable constr	ution funds, and adopting ACL guidalings and recent receases	publications to manually					
	and a set of	standard bridge rating software are erusial to the design	publications to manually					
	calculate ratings outside of VDOT's s	standard orluge rating software are crucial to the design.						

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Firm employed by Moffatt & Nichol								
Name	Isabella Mejdrech, PE, S	SE	Years of relevant experience with this employer	5				
Title	Structural Engineer		Years of relevant experience with other employer(s)	0				
Degree(s) / Y	ears / Specialization		MEng / 2020 / Civil Engineering (emphasis on structures)					
			BS / 2019 / Civil Engineering					
Active regist	ration number / state / e	xpiration date	0048259 / LA / 03-31-2026					
Year register	ed 2023	Discipline	Civil Engineering					
Contract role	(s) / brief description of	responsibilities	Rehabilitation & Load Rating					
			Isabella will provide rehabilitation and load rating services as r	needed.				
Experience d	ates Experience and	qualifications relev-	ant to the proposed contract; i.e., "designed drainage", "designed drain	gned girders", "designed				
(mm/yy–mm	/yy) intersection", etc	c. Experience dates s	should cover the years of experience specified in the applicable N	APR(s).				
03/23-06/2	24 Mississippi Off	ice of State Aid Roa	d Construction (OSARC) Superstructure and Substructure I	Load Ratings, Statewide,				
	MS. Structura	Engineer who led	the effort to load rate the superstructures and substructures of	of bridges in Mississippi				
	OSARC's inver	ntory. Superstructure	types rated include prestressed concrete single-tee beams, rein	nforced concrete channel				
	beams, and pres	tressed concrete I-sh	ape beams. Substructure types rated included reinforced concre	ete bents with prestressed				
	concrete piles, 1	einforced concrete b	pents with concrete-encased steel H-piles, and solid reinforced	concrete abutments. The				
analysis included incorporating findings from fieldwork and inspection reports. In addition to the rating, a summary re								
	generated to provide findings and give recommendations for posting if necessary							
03/21-06/2	/21-06/21 Load Rating of the Berkley Bridge, Norfolk, VA. Structural Engineer was responsible for the load rate of the							
	spans and double bascule spans of eastbound and westbound structures of the Berkley Bridge. Created the load rating mo							
	AASHTO BrR, identified bridge defects from inspection reports, developed a load rating report, and gave bridge pos							
	recommendation	18.						
03/22–12/	22–12/22 Load Rating of 86 Structures, Virginia Beach, VA. Engineer who led the coordination of load rating 86 structures with							
	months to meet Fixing America's Surface Transportation (FAST) Act requirements. Load rate steel and concrete structures							
	through the creation of AAHSTO BrR file, identifying bridge defects from inspection reports, developing load rating rep							
	and giving bridge posting recommendations.							
06/18-12/2	06/18-12/22 Load Rating of Bridges and Culverts, Suffolk, VA. Structural Engineer was responsible for the load rate of existin							
	new timber, concrete, and steel bridges and culverts in the City of Suffolk's portfolio across five task orders. Created the							
	rating model in AASHTO BrR, identifying bridge defects from inspection reports, developing load rating report, and							
bridge posting recommendations. Additionally, led the load rating of 51 structures within three months to meet								
	requirements, concurrent with other load ratings.							
04/23-05/23 Load Rating of the Holland Road Culvert Widening, Suffolk, VA. Structural Engineer was responsible for the lo								
widened and original segments of the reinforced concrete triple box culvert on Holland Road. Performed two diff								
for load rating: created the load rating model in AASH10 BrK for the widened section based on As-Built plans; u								
	Equivalent Capa	icity Coefficient App	bendix for the existing section with no existing plans; incorpora	ted As-Built changes and				
0.5/21.0.5/	detects from the	Inspection Report. L	Developed a load rating report with recommendations.	0 1 1 11 2 0 0				
07/21-06/2	22 Five Bridge Re	habilitation, Norfoll	x, VA. Structural Engineer who assisted in the field investigation	n tor rehabilitation of five				
	bridges in Norfo	olk. Review Routine l	Inspection Report and Underwater Inspection Report to determine elements to be repaired,					

	method of repair, and limits of repair. Designed structural repairs and prepared construction drawings for the rehabilitation of
	five bridges. Prepared cost estimate for repairs based on the Annual Service Contractor's pricing and following the VDOT Cost
	Estimating Manual. Prepared maintenance of traffic plan for rehabilitation of each bridge utilizing the Virginia Work Area
	Protection Manual. Prepared joint permit application for in-water repairs.
07/23-06/24	Northampton Boulevard Bridge Rehabilitation, Virginia Beach, VA. Structural Engineer who led the rehabilitation design
	of the twin bridges carrying Northampton Boulevard over Shore Drive, including diaphragm replacement, concrete repairs, joint
	replacement, and latex overlay based on the Routine Inspection Report review. Reviewed the deck evaluation results to select
	the appropriate deck rehabilitation method. Prepared the construction drawings and cost estimate using VDOT Cost Estimating
	Manual.
09/23-06/24	Virginia Beach Boulevard over NS Railroad Rehabilitation, Norfolk, VA. Structural Engineer who led the rehabilitation
	design of the bridge carrying Virginia Beach Boulevard over NS Railroad, including concrete repairs, substructure
	waterproofing, joint replacement, and epoxy overlay. Evaluated repairs based on inspection report and prepared the construction
	drawings and cost estimate using VDOT Cost Estimating Manual.

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Firm employed by	Moffatt & Nichol						
Name Thoma	as Spencer, PE, SE, P.Eng, BC.PE, AD	CI	Years of relevant experience with this employer	32			
Title Safety	Officer / Senior Structural Engineer		Years of relevant experience with other employer(s)	16			
Degree(s) / Years /	Specialization	BS /	1981 / Civil Engineering				
Active registration	number / state / expiration date	3574	42 / Louisiana / 03/31/2025				
Year registered	2010 Discipline	Civi	1 / Structural				
Contract role(s) / b	rief description of responsibilities	Reh	abilitation & Load Rating Meets MPR 4				
		Tho	Thomas will provide rehabilitation and load rating services as needed.				
Experience dates	Experience and qualifications releva	ant to	the proposed contract; i.e., "designed drainage", "design	ned girders", "designed			
(mm/yy–mm/yy)	intersection", etc. Experience dates sl	hould	cover the years of experience specified in the applicable M	PR(s).			
11/21-09/24	Plaquemines LNG Marine Facilities	s Desi	gn, Plaquemines Parish, LA. Engineer of Record. Provide	ed oversight of the plans			
	and specifications for the project. Ma	&N p	rovided professional engineering services related to the det	tailed design for a LNG			
	marine terminal, consisting of three be	erths,	Berth 1, Berth 2 and Berth 3. The berths share the landside a	accessway, levee bridge,			
	access trestle, pipeway and fire wate	er pla	tform. In addition, each Berth has 4 breasting dolphins, 3	mooring dolphins and			
	walkways. Services included construct	ction s	support with periodic construction surveillance.				
06/17-03/20	LaDOTD 2017 NBIS Underwater I	Bridg	e Inspection Retainer Contract, Statewide. Quality Mar	nager and NBIS Team			
	Leader for the current five-year retai	iner co	ontract to perform Levels I, II, and III underwater bridge in	spections in accordance			
with NBIS and AASHTO Manual for Bridge Element Inspection. Bridge types insp				f movable bridges, truss			
	ourteen miles in length.						
Site conditions included salt and fresh waters, with varying levels of current, having low to n				y. UAI techniques were			
utilized to locate structural deficiencies and identify bottom conditions. Responsible for approval and impleme							
02/14/02/17	project Quality Control Plan and under	erwate	er inspection field work.				
03/14-03/17/	03/14-03/17 Mississippi Department of Transportation (MDOT) Underwater Bridge Inspections. Quality Manager and NBIS Tea						
	Leader for a three-year retainer contr	ract fo	or Level I, II, and III underwater inspections of 68 bridges in	1 MDOT Districts I and			
2 in accordance with FHWA BIRM, AASHTO MBE, current NBIS requirements and the MDOT PONTIS							
	for Bridges. Acoustic imaging techn	iques	were utilized to determine the limits of scour and docum	ient the limits of riprap			
02/10 07/20	Port Encourt Douth 9 Construct	ion C	unnext Except TV Inspection and Dehabilitation I	Visainling Advisor and			
03/19-07/20	Provided Engineer who provided qual	lon S	ntrol and advisory corresponding in support of the construction of	inscipline Advisor and			
	by M&N for the construction of Porth 8 (8570/01)						
07/17 12/18	NNSV Structural Control Inspections for Dry Docks III Portsmouth VA Inspection and Dababilitation Dreation						
0//1/-12/10	Leader and Quality Control Revie	wor s	who provided a quality control review of the control inspection	ection reports at various			
milestones M&N performed control inspections of Dry Docks 1, 2, 3, 4, and 8 at Norfolk Naval Shinyard Inspections incl							
the topside inspection of the dry dock walls altars and floors confined space inspection of the dry dock utility tunnels t							
	wells, and flood flumes, and underwa	ater in	spection of each dry dock caisson seat. Inspection reports	were prepared for each			
	graving dock facility in support of NA	VFA	C's Dry Dock Certification Program. Reports include the iden	tification of deficiencies			
	and cost estimates for deficiency corre	ection	, <u> </u>				

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Firm employed by	Moffatt & Nichol						
Name Benja	min (Ben) R. Brock, PE, AD	DCI	Years of relevant experience with this employer	1			
Title Civil	Engineer/Diver	1	Years of relevant experience with other employer(s)	9			
Degree(s) / Years /	Specialization	F	Bachelor of Science / 2016 / Civil Engineering				
Active registration	number / state / expiration c	late (0060619 / CO / 10-31-2025				
Year registered	2022 Di	scipline (Civil Engineer				
Contract role(s) / b	rief description of responsib	oilities A	Acoustic Imaging				
	1	E	Ben will perform acoustic imaging as needed.				
Experience dates	Experience and qualificat	tions relevant	t to the proposed contract; <i>i.e.</i> , "designed drainage", "designed	girders", "designed			
(mm/yy–mm/yy)	intersection", etc. Experie	ence dates sho	ould cover the years of experience specified in the applicable MPR	(s).			
2022-2023	Montana Department o	f Transport	ation (MDT), Statewide Underwater Bridge Inspections, Sta	itewide, MT. Team			
	Leader/Dive Supervisor	for statewide	bridge inspection and engineering services for underwater bridge	s. Bridge inspections			
	ranged from minor to com	plex steel, con	ncrete, prestressed concrete, and timber bridges. Reviewed previou	is inspection and load			
	rating reports; field inspect	tions; the prep	paration of bridge inspection reports within MD1's Bridge Inspectio	in database and SI&A			
	sneets; repair recommen	dations; and	Id Element Level evaluations for bridges that required an underwater inspection.				
	Hydrographic surveys and	rmanaa with	Ig using Blueview modeling software were also created for each report. All operations				
	ons. Responsible for						
2021-2022	2021-2022 New Hampshire Department of Transportation (NHDOT) Statewide Bridge Inspections Statewide NH						
Leader/Diver for statewide bridge inspection routine underwater inspections and engineer				Bridges ranged from			
steel concrete prestressed concrete and timber brid			timber bridges. Work included field inspections and the preparation	n of bridge inspection			
	reports within NHDOT standards with repair recommendations. All operations were completed to conformance with FH						
	NBIS, AASHTO, and NHDOT standards and specifications. Responsible for conducting field inspections and prepari						
	inspection reports.						
2021	Maine Turnpike Authority Underwater Bridge Inspections, Various Locations, ME. Project Engineer/Diver for routi						
	underwater inspection of 2	6 bridges own	ned by the Maine Turnpike Authority. These bridges are located in s	southern Maine along			
	Interstate I-95 and typicall	ly consist of 1	to 13 span pile supported bridges or box cell culverts. All inspect	tions were completed			
in accordance with FHWA standards. Letter reports were required for each bridge and were in accordance with							
2018-2021	Massachusetts Departme	ent of Trans	portation (MassDOT), UW Inspections Rail and Transit, Stat	ewide, MA. Project			
	Engineer/Diver for underwater inspection of bridges for MassDOT Rail and Transit as a subconsultant for STV, Inc. The						
	contract is a Task Order c	ontract under	er STV Task Order contract with MassDOT. Reports for each bridge were completed in				
	the MassDOTs 4-D progr	am. Task Orc	ler 1 included 5 bridges located throughout western Massachuset	ts. Most consisted of			
	small single-span bridges	in less than 10) teet of water. One bridge was a 9-span bridge over the Connecticu	ut River. Responsible			
	tor performing the underw	ater inspection	ons and developing inspection reports.				

	11 35 00					Page 35 of 149		
Firm employ	Firm employed by Moffatt & Nichol							
Name	Name Stephanie Athanas			Years of relevant experience with this employer 6				
Title	Civil Associate				Years of relevant experience with other employer(s)	0		
Degree(s) / Y	ears / Specializ	zation		BS / 2	2019 / Civil Engineering			
Active regist	ration number /	/ state / expirati	on date	EIT 1	EIT 19-498-21 / CA / Does not expire			
Year register	red	2019	Discipline	N/A				
Contract role	e(s) / brief descu	ription of respo	nsibilities	Acous	Acoustic Imaging			
				Steph	anie will perform acoustic imaging as needed.			
Experience d	lates Experie	ence and quality	fications releva	ant to 1	he proposed contract; <i>i.e.</i> , "designed drainage",	gned girders", "designed		
(mm/yy-mm	/yy) intersec	tion", etc. Exp	perience dates s	should c	over the years of experience specified in the applicable N	IPR(s).		
02/22-03/2	24 LaDO	ΓD , Underwat	er Bridge Ins	pection	s, Statewide, LA. Inspection Team Member who per	formed QC reviews and		
	Assetw	ise inputs for u	inderwater repo	orts for	over 500 underwater bridge inspections throughout Loui	siana. Level I, II, and III		
	inspect	ions of submer	ged elements w	vere per	formed in accordance with the Federal Highway Adminis	stration (FHWA), Bridge		
	Inspect	Inspection Reference Manual (BIRM), American Association of State Highway and Transportation Officials (AASHTO) MBE,						
	current	urrent NBIS requirements and LaDOTD engineering and maintenance directives. Inspections were completed using diving and						
underwater imaging. Imaging uni				sed inclu	ide Kongsberg Mesotech MS 1000 and Norbit Winghead i	//. Bridge types included		
movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-staye					s, truss bridges, timber stringer bridges, cable-stayed bridg	ges, and single and multi-		
span bridges. Produced underwater acoustic images from data collected from the imaging units. Assister						ted with managing report		
04/22.05/	schedul	ing and report	writing.			<u> </u>		
04/22-05/		ID, In-Deptn	Bridge Inspec	ctions (lask Order 5), Statewide, LA. Team member who per	formed QC reviews and		
	Assetw	ise inputs for u	nderwater repoi	rts inspe	ection report for the Vicksburg Bridge (Cantilever Bridge)	bordering Louisiana and		
	IVI1SS1SS	hippi, as a subco	onsultant to Gre	esnam S	mith. Performed underwater imaging for the reports, proc	cessed UAI data on cloud		
10/22 12/	compare, and input element inspection in Assetwise.							
10/22-12/22 UASCE, Bridge Inspection Services at USAG Fort Polk, Leesville, LA. Civil associate responsible for quality control. This task order covered the inspection of 63 bridges and the preparation of reports in accord Bridge Inspection Standards (NBIS) and USACE procedures. Field inspections required extensive coordina						ble for report writing and		
						accordance with National		
						dination with DPW and		
	finding	house Four bridges required an underwater inspection. F	cepoils included detailed					
	ropair	repair costs, and updated structural inventory and appraisal (SL&A) data						
03/18-07/	18 Orange	<u>o County Publi</u>	ic Works Stru	ictural	Analysis of DA2 Talbart Channel Sheet Pilos & Donair	Recommendations CA		
03/10-07/		ngineering inte	rn who aided	in nond	lestructive steel sheet testing with ultrasonic thickness s	equinment in the Talbert		
	Channe	I Conducted I	evel I II and	III iner	ections that were visual observation, sound observation	and ultrasonic thickness		
	testing	above water an	d underwater	m məh	sound observation, sound observation,			
	using	above water all	a unuer water.					
					Page 36 of 149			
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Firm employe	Firm employed by Moffatt & Nichol							
Name C	Colin Anderson, PE			Years of relevant experience with this employer	<1			
Title C	Coastal Engineer			Years of relevant experience with other employer(s)	7			
Degree(s) / Ye	ears / Specialization		BS /	BS / 2013 / Environmental Systems Engineering				
	-		MS .	/ 2022 / Coastal and Ecological Engineering				
Active registra	ation number / state /	expiration date	0048	8077 / LA / 03/31/2026				
Year registere	d 2023	Discipline	Envi	ironmental Engineer				
Contract role(s) / brief description of	of responsibilities	Scou	ur Analysis				
			Coli	Colin will provide scour analysis of bridge foundation and protection features as needed.				
Experience da	tes Experience an	d qualifications relev	ant to	the proposed contract; i.e., "designed drainage", "	gned girders", "designed			
(mm/yy–mm/	yy) intersection", e	tc. Experience dates s	should	cover the years of experience specified in the applicable N	IPR(s).			
9/23-11/23	B Preliminary S	cour Analysis of Bri	dge R	eplacement at Rigolets Pass, Slidell, LA. Hydraulic mod	eling using HEC-RAS to			
	support a prelim	minary scour analysis	of a bi	ridge replacement at Rigolets Pass in Slidell, LA. This pass	receives significant tidal			
	flow, episodic	storm surge, and navi	gation	al traffic. The maximum flow velocities from the hydrauli	c modeling were used to			
	estimate scour	to inform a go/no-go o	decisio	on on pursuing further design.				
3/23-6/23	Virginia DOT	, Benjamin Harrison	Mem	orial Bridge Dolphin Analysis, Hopewell, VA. Coastal E	ngineer supporting scour			
	analysis of a d	analysis of a dolphin protection design for the Benjamin Harrison Bridge. Colin created a hydraulic model of the James River						
from Richmond to Chesapeake Bay in SRH-2D. The model included tidal forces and riverine flows. Scour was calculat			cour was calculated from					
	the two-dimens	sional flow velocities a	around	the current pier and fenders and then compared to the flow	velocities for a proposed			
	design.							

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Firm employed b	y Moffatt & Nichol			
Name Kevi	n C. Hanegan, PE	Years of relevant experience with this employer	13	
Title Coas	stal Engineer	Years of relevant experience with other employer(s)	0	
Degree(s) / Years	/ Specialization	PhD / 2020 / Coastal Hydrodynamics and Morphology		
		MS / 2011 / Coastal and Marine Engineering and Mgmt.		
		BS / 2009 / Civil and Environmental Engineering Management	t	
Active registratio	n number / state / expiration date	0041433 / LA / 09/30/2025		
Year registered	2017 Discipline	Civil Engineer		
Contract role(s) /	brief description of responsibilities	Scour Analysis		
		Kevin will provide scour analysis on bridge structures as neede	ed.	
Experience dates	Experience and qualifications relev	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dra	gned girders", "designed	
(mm/yy–mm/yy)	intersection", etc. Experience dates s	should cover the years of experience specified in the applicable N	APR(s).	
08/17-09-17	ENLINK Floating Dock Facility E	valuation, Geismar, LA. Hydraulic Engineer responsible for c	leveloping environmental	
	loading criteria, including Mississip	pi River flow velocities, for the assessment of the capacity of a	a floating dock facility to	
	accommodate larger barges. Develo	bed operational and extreme wind speeds, water levels, and river currents through data		
	analysis and three-dimensional Delf	t3D hydrodynamic modeling. Performed preliminary geomorph	nic assessment and scour	
	analysis to determine recommended	berth location and depths.		
05/20-03/22	Perdido Islands Restoration Alter	natives Analysis and Design, City of Orange Beach, Baldw	in County, AL. Coastal	
	Engineer assisting with formulating	data collection efforts, numerical modeling plan, and restoration	n alternatives for Perdido	
	Pass and Lower Perdido Bay. Coord	inated with sub-consultant for hydrodynamic modeling and sed	iment transport study and	
10/10 01/10	performed senior technical review of	numerical modeling work products.		
10/18-01/19	Tensaw Bridge Replacement – Sea	wall Design, Mobile, AL. Coastal Engineer responsible for de	etermining environmental	
	design criteria for the seawall to pro	tect abutments for the proposed Tensaw Bridge replacement. An	n iterative design process	
06/10 10 10	analyzed protection options including	g a seawall, revetment and hybrid approaches.		
06/18-12-19	Large-Scale Upper Barataria Ma	irsh Creation, Plaquemines and Jefferson Parishes, LA.	Coastal and Hydraulic	
	Engineer for the development and	application of a three-dimensional hydrodynamic, sediment tra	ansport, and morphology	
	Delft3D model of the Lower Mississ	ippi River to predict infilling of sediment borrow pits and optimi	ze borrow-pit sequencing	
00/19 0	in the creation of a large-scale marsh	creation project in upper Barataria basin.	O T	
09/18-Ongoing	Diagnomina Darish I A City	Authority (CPKA), Nild-Basin Sediment Diversion Program	Uwner's Keview I eam,	
	riaquemines Parisn, LA. Coastal	and Hydraulic Engineer and Modeler supporting the independence of the second deliver where and deliver the second deliver the s	ident technical review of	
	nyurouynamic modeling and coastal e	engineering approaches and deliverables associated with the prelin	minary design of the Mid-	
	Barataria and Mild-Breton sediment d	inversions, including scour analysis and protection design.		

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Firm employed by Monatt & Nichol						
Name I	Vichael A. Knott, PE		Y ears of relevant experience with this employer	28		
Title	Senior Structural Engineer		Years of relevant experience with other employer(s)	20		
Degree(s) / Y	ears / Specialization	MS	/ 1976 / Civil and Structural Engineering			
		BS /	⁷ 1975 / Civil and Structural Engineering			
Active registr	ation number / state / expiration date	0402	2018961 / VA / 09/30/2024			
Year register	d 1979 Discipline	Civi	1 Engineer			
Contract role	(s) / brief description of responsibilities	Sco	ur Evaluations and Vessel Collision Analysis			
		Mic	hael will provide vessel collision analysis as needed.			
Experience da	ates Experience and qualifications relev	vant to	the proposed contract; i.e., "designed drainage", "	gned girders", "designed		
(mm/yy-mm/	yy) intersection", etc. Experience dates	should	cover the years of experience specified in the applicable M	<u>4PR(s).</u>		
06/17 - 12/	20 LaDOTD, Underwater Bridge Ins	spectio	ons, Statewide. Vessel Collision Subject Matter Expert	for the M&N Team that		
	developed the new LaDOTD Bridg	ge Insj	pection Manual (BIM) under Task 5 of a five-year reta	iner contract to perform		
	underwater bridge inspections throug	ghout l	Louisiana.			
09/22	Jimmie Davis Bridge-ITR Bridge V	Vessel	Impact Analysis, LA. Vessel Collision Expert who condu	cted an independent high-		
	level review of the vessel collision r	eport j	prepared by HNTB for the LaDOTD Design-Build Compe	tition for the replacement		
	of the LA 511 Bridge over the Red R	River in	n Shreveport. M&N was a consultant to the firm Huval & A	Associates.		
04/24-Ongo	ing Maryland Transportation Author	itv (M	DTA), Chesapeake Bay Bridge Vessel Collision Risk C	Derational Mitigations.		
6	MD. Vessel Collision Expert assis	sting N	ADTA on potential vessel operation improvements and p	pier protection mitigation		
	alternatives for the twin suspension	bridge	crossings near Annapolis. The parallel bridges are four mi	iles long with 11,600 feet		
	in water depths of 30-60 feet. Both su	uspens	ion bridges have main spans of 1,600 feet. Services are bein	ng provided following the		
	collapse of the Francis Scott Key Bri	idge in	Baltimore.			
06/24-Ongo	ing Virginia Department of Transpor	y Virginia Department of Transportation, Vessel Collision Evaluation, Virginia Waterways, Vessel Collision Expert				
6	the high-level risk and pier protection	ı evalu	ation of 20 major bridge crossings over navigable waterway	s in Virginia. The bridges		
	consist of high-level crossings with	consist of high-level crossings with significant ship traffic and mid-level crossings with primarily barge traffic transiting the				
	waterways. Services are being provid	ded fol	lowing the collapse of the Francis Scott Key Bridge in Bal	timore.		
04/16-04/2	22 230ky Harbor Crossing of Patap	sco R	iver, Baltimore, MD. Vessel Collision Expert for plan	nning, risk analysis, and		
	protection alternatives for the new 10),800-f	oot-long crossing of the heavily trafficked navigation chann	rel into Baltimore Harbor.		
	The award-winning project included	d a 2,2	200-foot main span over the navigation channel adjacent	to the Francis Scott Key		
	Bridge. M&N's services also include	ed the	design of the selected pile-supported protection system, to	wer foundation and pylon		
	substructure design, and environmen	substructure design, and environmental permitting coordination. The main towers are the highest transmission towers in No				
	America. M&N was a consultant to the firm Sargent & Lundy under contract to Baltimore Gas & Electric (BG&E) compa					
11/16-03/1	8 Vessel Collision Study, Lions Gate	Bridg	e (LGB) over First Narrows and Iron Workers Memor	ial Bridge (IWMB) over		
	Second Narrows, Vancouver, Briti	sh Col	umbia, Canada. Vessel Collision Expert for risk analysis	of potential ship collision		
	with two major existing highway cro	ssings	over Vancouver Harbor and development of protection alter	ernatives. The 2,775-foot-		
	long LGB is a suspension bridge w	ith a 1	,548-foot main span over the First Narrows of Burrard In	nlet. The 4,238-foot-long		
	IWMB is a steel truss bridge with an arched main span of 1,099 feet over the Second Narrows. The studies were con					

	the British Columbia Ministry of Transportation and Infrastructure. M&N was a consultant to the firm WSP (formerly MMM
	Group).
01/19-02/20	Vessel Collision Study, Panama Canal 4th Crossing Bridge, Panama City, Panama. Vessel Collision Expert for the vessel
	collision study and risk analysis of a proposed bridge over the Panama Canal. Services included development of the existing and
	future vessel merchant fleet passing under the bridge, grounding analysis of the selected design vessels, and assistance for
	concept development of potential protection alternatives. M&N was a consultant to the selected Design/Build Team led by China
	Harbour Engineering Company.
01/18-10/20	Barge Collision Protection System, Cargill Marine Terminal, Miritituba, Brazil. Barge collision evaluation and pier
	protection design for an existing Cargill Agricola marine terminal on the Tapajos River in Brazil. M&N's services included
	barge collision risk analysis, H&H/scour analysis, pier protection alternatives and final design of the selected protection system.
06/06-08/06	John James Audubon Bridge over Mississippi River, St. Francisville, LA. Vessel collision expert for an independent peer
	review of the vessel collision analysis and ship impact design criteria prepared by Parsons for the cable-stayed bridge. The
	design-build project for LaDOTD included a 1,563-foot main span over the navigable portion of the waterway. M&N was a
	consultant to the firm Buckland & Taylor.
01/03-04/04	Louisiana Route 1 Bridge Replacement over Bayou Lafourche, Leesville, LA. Vessel Collision Expert for bridge planning,
	risk analysis, and development of the protection design criteria for the high-level bridge with a 350-foot main span that replaced
	an obsolete existing movable lift bridge for the LaDOTD. M&N was a consultant to the firm Wilbur Smith Associates.

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Firm employe	Firm employed by Moffatt & Nichol					
Name Thomas Spencer, PE, SE, P.Eng, BC.PE, AD			Years of relevant experience with this employer	32		
Title S	enior Structural Engineer		Years of relevant experience with other employer(s)	16		
Degree(s) / Ye	ears / Specialization	BS	/ 1981 / Civil Engineering			
Active registra	ation number / state / expiratio	n date 357	42 / Louisiana / 03/31/2025			
Year registere	d 2010	Discipline Civ	il / Structural			
Contract role(s	s) / brief description of respon	sibilities Ins	pection Team Leader Project Manager Meets MPR 4			
		The	omas will lead inspection teams and provide rehabilitation and	l load rating services as		
.		nee	ded.	1 • 1 • 4 • 4 1		
Experience da	tes Experience and qualifi	cations relevant to	b the proposed contract; <i>i.e.</i> , "designed drainage", "design	ed girders", "designed		
(mm/yy-mm/y	yy) intersection", etc. Expe	erience dates should	d cover the years of experience specified in the applicable MP	$\frac{'K(s)}{K(s)}$		
06/1/-03/20	U LaDOID 201/ NBIS	Underwater Bridg	ge Inspection Retainer Contract, Statewide. Quality Man	ager and NBIS Leam		
	Leader for the current	Tive-year relation C	des Element Inspection. Dridge types inspected consisted of	spections in accordance		
	with NBIS and AASH	bridges apple star	uge Element inspection. Bruge types inspected consisted of	movable bridges, truss		
	Site conditions included	dridges, cable-slay	yed bridges, and single and multi-span girder bridges up to it	urteen miles in length.		
	utilized to locate struct	ural deficiencies a	nd identify bottom conditions. Responsible for approval and	y. UAI techniques were		
	project Quality Control	Plan and underwat	the inspection field work			
03/14-03/1	7 Mississinni Departme	nt of Transportati	ion (MDOT) Underwater Bridge Inspections, Quality Mar	nager and NRIS Team		
05/11/05/1	Leader for a three-year	retainer contract f	or Level I. II. and III underwater inspections of 68 bridges in	MDOT Districts 1 and		
	2 in accordance with F	HWA BIRM. AAS	HTO MBE, current NBIS requirements and the MDOT PON	TIS Inspection Manual		
	for Bridges. Acoustic	maging techniques	s were utilized to determine the limits of scour and docume	ent the limits of riprap		
	remediation.			···· ··· ····		
03/19-07/2	0 Port Freeport Berth	8, Construction S	Support, Freeport, TX. Inspection and Rehabilitation D	iscipline Advisor and		
	Project Engineer who	provided quality c	ontrol and advisory services in support of the construction su	pport services provided		
	by M&N for the constru	uction of Berth 8. (8570/01)			
07/17-12/1	8 NNSY - Structural C	ontrol Inspection	s for Dry Docks III, Portsmouth, VA. Inspection and R	ehabilitation Practice		
	Leader and Quality C	Control Reviewer	who provided a quality control review of the control inspec	ction reports at various		
	milestones. M&N performed control inspections of Dry Docks 1, 2, 3, 4, and 8 at Norfolk Naval Shipyard. Inspections included					
	the topside inspection of the dry dock walls, altars, and floors, confined space inspection of the dry dock utility tunnels, pur					
	wells, and flood flumes	s, and underwater i	inspection of each dry dock caisson seat. Inspection reports	were prepared for each		
	graving dock facility in	support of NAVFA	C's Dry Dock Certification Program. Reports include the ident	ification of deficiencies		
and cost estimates for deficiency correction.						

Firm employed by Forte & Tablada, Inc.						
Name Bradley Holleman, PE, PLS			S		Years of relevant experience with this employer	3.5
Title	Senior	ior 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 regis	stration	number / state / expira	ation date	PLS	5082 / LA / 9/30/2024; PE 47165 / LA/3/31/2025	
Year registe	ered	2012; 2022	Discipline	Land	l Surveying/Civil Engineering	
Contract rol	le(s) / bi	rief description of resp	onsibilities	Lan	d Surveying	
Experience	dates	Experience and qua	lifications releva	nt to	the proposed contract; i.e., "designed drainage", "designe	d girders", "designed
(mm/yy–mr	m/yy)	intersection", etc. E	xperience dates sl	nould	cover the years of experience specified in the applicable MPF	k(s).
		H.009456 – Tchefu	ncte River Bridg	e, Ta	ngipahoa Parish, LA – Surveyor-in-Charge for the hydrogr	aphic survey,
05/12-09)/12	topographic survey a	and existing drain	age m	hap. This project was for a bridge replacement over the Tchefu	incte River in
00/12 05		Tangipahoa Parish.	This project demo	nstrat	tes Brad Holleman, PLS, PE fulfillment of the Minimum Pers	onnel Requirement.
		H.002375 Amite Ri	ver Bridge, Fren	ch Se	ettlement, LA – Surveyor-in-Charge for the topographic sur	vey, 3D laser
00/10.00		scanning and existin	g drainage map. I	l'his p	roject was for constructing a new bridge over Amite River in	French Settlement,
09/13-03	8/14	Louisiana to the repl	ace the existing s	wing	bridge. A hydrographic survey was performed on the Smite R	iver for this project.
		This project demons	trates Brad Holler	man,	PLS, PE fulfillment of the Minimum Personnel Requirement.	• 1
02/17 02	/10	H004987 US 190 Collins Blvd, Covington, LA - Surveyor-in-Charge for the topographic survey, 3D laser scanning and				
03/1/-03	5/18	existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. This project				
demonstrates Brad Holleman, PLS, PE tultillment of the Minimum Personnel Requirement.					ania Daniah I A	
		LA DOID Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parisn, LA – Dringing in Change for the area ground the LA 14 Dridge over Delcambre Canal. The work included turical group sections				
06/23-08	8/23	and water bottom fee	e for the area arou	uliu ul	were collected using multi beam and single beam sonar equin	ment Terrestrial
		and water bottom features below waterline were confected using multi-beam and single beam sonar equipment. Terrestrial				
		LA DOTD Underw	ater Acoustic Im	agin	Statewide I.A – Principal-in-Charge for aiding in the fiel	d acquisition of
		multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor				
05/22-10)/22	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.				
		H.014219, H.01422	2. H.014228. H.0	1423	and H.014236 – Rural Bridge Replacement Initiative Pha	se II: 5 State
06/21-Ong	going	Project numbers (2	0 Bridge Sites) in	n Dist	tricts 04 and 05 (4400019336) - Principal-in-Charge for top	ographic surveying
	5 0	and right-of-way ma	pping services for	r 20 E	Bridge Sites.	61 56
		H.003931- Calcasie	u River Bridge (HBI)	- Calcasieu Parish, LA (4400010587- Task Order 18; 4400)015237- Task
		Order 1; 440002197	74- Task Orders	1, 3,	and 4) – Principal-in-Charge for this project providing topo	graphic survey and
		drainage mapping. T	his project is in a	high-	traffic industrial area along I-210 and is approximately 7 mile	es long. Forte and
05/21 12	1/22	Tablada completed N	Mobile LiDAR sc	annin	g services for much of the corridor as a means of obtaining to	pographic data
05/21-12	2/22	without endangering	surveyors. The S	urvey	v also included Multibeam Hydrographic survey of Lake Char	les, and Terrestrial
		LiDAR scanning of	bridge substructur	res. M	Ir. Holleman also served as Principal-in-Charge for the bound	ary surveys and title
		take-offs for the rail	oad realignment	of this	s project.	

	H.004100 I-10: LA 415 to Essen Lane - Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This
01/18-04/20	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.
	H.000688 US 11 Norfolk Southern RR Overpass, St. Tammany Parish, LA – Surveyor-in-Charge for the topographic
04/20-11/20	survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern
0 11 20 11 20	Railroad.
	H.010652 LA 73: US 61 (Airline) to Essen Lane, Baton Rouge, LA – Surveyor-in-Charge for the topographic survey and
02/20-08/20	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.
	H.011645 LA 3002 Access Management, Livingston Parish, LA – Surveyor-in-Charge for the topographic survey and 3D
06/19-12/19	Mobile laser scanning. This project was for the design of a median and turnarounds on LA 3002 in Livingston Parish.
	H.012591 I-10 Paris Road Lake Pontchartrain, New Orleans, LA – Surveyor-in-Charge for the topographic survey, 3D
05/18-04/19	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.
	H004987 US 190 Collins Blvd, Covington, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and
03/17-03/18	existing drainage map. This project was for the design of capacity improvements on US 190 in Covington.
	H.000263 Chef Menteur Pass Bridge - Surveyor-in-Charge for the topographic survey. 3D laser scanning and existing
06/16-02/17	drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur
	Pass.
	H.011137 & H.011152 I-12 (LA 21 to LA 59), St. Tammany, LA – Surveyor-in-Charge for the topographic survey, 3D
12/14-03/16	laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany
	Parish.
	H.011224 US 190 Guardrail / Rutting Repair, Point Coupee Parish, LA – Surveyor-in-Charge for the topographic
06/15-12/15	survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement guardrail along US 190
00/10/12/10	in Pointe Coupee Parish due to damage.
	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
08/19-Ongoing	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 Ross A	NameRoss A. Wilson, P.L.S.Years of relevant experience with this employer13				
Title Senior	Professional Land Surveyor	Years of relevant experience with other employer(s)	2		
Degree(s) / Years /	Specialization	BS / 2010/ Geomatics			
Active registration	number / state / expiration date	5148/LA/03/31/2026; Also Registered PLS in TX, MS, AR, FL,	KY, and TN		
Year registered	2015 Discipline	Land Surveying			
Contract role(s) / br	rief description of responsibilities	Professional Land Surveyor			
Experience dates	Experience and qualifications relev	vant to the proposed contract; i.e., "designed drainage", "design	ed girders", "designed		
(mm/yy–mm/yy)	intersection", etc. Experience dates	should cover the years of experience specified in the applicable MI	$2^{\circ}R(s)$.		
05/21 – 12/22	 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) – Surveyor-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for 				
05/17-10/18	 H.004791.5 Belle Chasse Bridge and Tunnel (HBI)- Plaquemines Parish, LA (4400009387- Task Orders 2 and 5)- Surveyor-in-Charge for comprehensive topographic surveying and drainage mapping for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway, bridge and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and exterior features of the existing tunnel 				
08/19-Ongoing	H.011670- I-10/Loyola Interchang Right- of-Way Survey, and Drainage off ramp, as well as Loyola Avenue part of a Design-Build Project, whic schedule. Due to the compressed tim with Forte and Tablada, Inc. serving Mr. Wilson was responsible for ensu requirements.	e Improvements- Kenner, LA- Surveyor-in-Charge providing T e Survey. The project stretches along I-10, from the levee in Kenner and portions of Veterans Blvd for approximately 3.2 miles of roady h required weekly data updates, to allow the Design team to begin heline of the Survey, a total of 3 Survey firms were contracted to sp as Prime Surveyor, being responsible for management and QA/QC uring all Survey work was completed on schedule, while also meeting	opographic Survey, r to the Williams Blvd. vay. The Survey was working and stay on lit up the workload, c of all Survey work. ng all LADOTD		
03/13-07/15	H.004698 – Almonaster Avenue Li topographic survey, drainage map, in of I- 10, Almonaster Avenue, and C	ift Bridge – Orleans Parish, LA– Survey Manager responsible for ntegration of Hydrographic data, and establishing existing right-of- SX Railroad property, and terrestrial LiDAR scanning all bridge fea	or performing way for the north line atures.		
10/18-02/19	H.012343 Sunshine Bridge Repair Charge responsible for establishing scanning methods to monitor the dan response to an emergency task order and were able to mobilize multiple f and during construction to support e bridge were also provided.	- St. James Parish, LA (4400010587- Task Orders 2, 3, 4, 5, an survey control on and near the Sunshine Bridge to use conventionan nage on the bridge. This project showcases Forte and Tablada's cap , as project managers were able to meet LADOTD representatives ield crews for initial project control work that night. Monitoring effingineering jacking. Post-construction as-builts and profiles of the d	d 10) - Surveyor-in- l and terrestrial LiDAR bability of quick within hours of notice forts took place before amaged area of the		

	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase
06/20-3/22	I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58 (4400017598)– Surveyor-in-Charge for
	topographic surveying and right-of-way mapping services.
	H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II; 5 State
06/21-Ongoing	Project numbers (20 Bridge Sites) in Districts 04 and 05 (4400019336) - Surveyor-in-Charge for topographic surveying
	and right-of-way mapping services.
	H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553-
08/23-Ongoing	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program- 10 State Project Numbers (13 Bridge
	Sites) District 61 (4400025029)–Surveyor-in-Charge for topographic surveying and right-of-way mapping services.
	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD – Survey Manager/ Surveyor-in-Charge responsible
	for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is
08/15-Ongoing	in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. was able to mobilize up to 4 Survey crews on
	this project, in order to meet phased deadlines. This project demonstrates Mr. Wilson's ability to fulfill the minimum
	personnel requirement of having over five (5) years of experience in conducting topographic surveys.
	IDIQ Contract No. 4400009164 for Professional Surveying Services – Statewide with Majority of Work in Districts 03
12/16 12/10	and 07 – Surveyor performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for
12/10-12/19	LA DOTD. This contract showcases Mr. Wilson's familiarity with the process of managing an LADOTD Survey IDIQ Task
	Order from beginning to end.
11/18-3/19	H.011684 LA 327 Spur: Staring Lane Extension- East Baton Rouge Parish, LA (4400010587- Task Orders 1 and 16;
1/21_2/21	4400021974- Task Order 5)- Surveyor-in-Charge for a topographic survey, Terestrial LiDAR, and drainage map for this
1/21-2/21, $1/2/22_0//23$	project, being approximately 1.5 miles long, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327
12/22-04/23	(Gardere Ln.) and La 30.
	H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes- LA DOTD
01/18-06/19	(4400012323)- Survey Manager for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway
01/10-00/17	along I-10 and I-12 between LSU lakes and Essen Lane. Project required Forte and Tablada, Inc. to mobilize up to 5 Survey
	Crews to meet phased deadlines.
	H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, LA (4400021974- Task Order 2) – Surveyor-in-
01/23-01/24	Charge for this project providing topographic survey, Mobile LiDAR, and drainage mapping. This project is in a dense urban
	area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements.
	H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W
01/20 10/20	End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes, LA (4400010587- Task Orders 6, 7, and 8)-
01/20-10/20	Surveyor-in-Charge for complete topographic survey and Mobile LiDAR of approximately 18.3 miles along I-10, from the
	East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.

Firm employed by Forte & Tablada, Inc.						
Name Gera	ld "Jerry" Middleton, P.L.S.	Years of relevant experience with this employer	12			
Title Senio	r Professional Land Surveyor	Years of relevant experience with other employer(s)	37			
Degree(s) / Years	/ Specialization					
Active registration	number / state / expiration date	4856 / Louisiana / 09-30-2025				
Year registered	Discipline	Land Surveying				
Contract role(s) / b	prief description of responsibilities	Surveyor				
Experience dates	Experience and qualifications releva	ant to the proposed contract; i.e., "designed drainage", "design	ned girders", "designed			
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicable MI	PR(s).			
	H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA (4400010587- Task Order 18; 44	00015237- Task			
05/21-12/22	Order 1; 4400021974- Task Orders	1, 3, and 4) – QC Reviewer for this project providing topograph	ic survey, Mobile and			
05/21-12/22	Terrestrial LiDAR, Multibeam Hydro	graphic survey of Lake Charles, and drainage mapping. This proj	ect is in a high-traffic			
	industrial area along I-210 and is appr	roximately 7 miles long.				
	H.004791.5 Belle Chasse Bridge and	d Tunnel (HBI)- Plaquemines Parish, LA (4400009387- Task (Orders 2 and 5)- QC			
	Reviewer for comprehensive topogra	phic surveying and drainage mapping for the Belle Chase Bridge	and Tunnel			
05/17-10/18	Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial					
	laser scanning of roadway, bridge and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and					
	exterior features of the existing tunnel.					
06/17-02/19	Amite/Blind River Survey, Livingston Parish, LA – Surveyor for hydrographic surveying of the mouth of the Amite and					
	Blind River in Livingston Parish.					
	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD – QC Reviewer responsible for providing topographic,					
08/15-Ongoing	terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is					
	approximately 5 miles long. Forte and Tablada, Inc. was able to mobilize up to 4 Survey crews on this project, to meet phased					
	deadlines.					
	H.0116/0-1-10/Loyola Interchange Improvements- Kenner, LA- QC Reviewer providing topographic survey, right-of-					
08/19-Ongoing	way survey, and dramage survey. The project stretches along 1-10, from the levee in Kenner to the williams Blvd. off-ramp, as well as Levela Avenue and performs of Veterone Plvd for approximately 3.2 miles of readyout. The Survey was part of a					
	Design Duild Project which required weakly date undates to allow the Design team to begin werking and stay on schedule					
	East Baton Bouge Stormwater Mas	Design-bund rioject, which required weekly data updates, to allow the Design team to begin working and stay on schedule.				
	have us and graphy logated within East Daten Dauge Derich for the EDD Starrey star Masternian. The work apprict of af					
2018 2021	establishing cross-sections and stream	bed profiles along their length as well as locating over 14 000 su	burface structures for			
2010-2021	the purposes of hydraulic modeling					
	H.004100- I-10: LA 415 to Essen La	ane to I-10 and I-12- East and West Baton Rouge Parishes- LA	DOTD			
	(4400012323)- OC Reviewer for top	ographic survey, and terrestrial LiDAR survey of approximately 5	miles of roadway			
01/18-06/19	along I-10 and I-12 between LSU lake	es and Essen Lane. Project required Forte and Tablada. Inc. to mo	bilize up to 5 Survey			
	Crews to meet phased deadlines.					

03/13-07/15	H.004698 – Almonaster Avenue Lift Bridge – Orleans Parish, LA– QC Reviewer responsible for performing topographic survey, drainage map, integration of Hydrographic data, and establishing existing right-of-way for the north line of I- 10, Almonaster Avenue, and CSX Railroad property, and terrestrial LiDAR scanning all bridge features.
06/20-03/22	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)– QC Reviewer for topographic surveying and right-of-way mapping services.
03/15-09/20	Livingston Drainage Improvements – Bridge Replacements- Livingston Parish, LA- Surveyor-In-Charge for Surveys of George Mashon and Travis Street for the Topographic Survey and Right-of-Way mapping. The purpose of the project was to determine the feasibility of replacing bridges with culverts within the parish.
12/16-12/19	IDIQ Contract No. 4400009164 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07 – QC Reviewer performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA DOTD.
01/23-01/24	H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, LA (4400021974- Task Order 2) – QC Reviewer for this project providing topographic survey, Mobile LiDAR, and drainage mapping. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements.
02/17-03/18	H.010753.5 US 90 / I-310 Interchange, St. Charles Parish, LA (4400009387- Task Orders 1 and 3)- QC Reviewer for topographic surveying, terrestrial LiDAR, and drainage mapping of approximately 2 miles along US-90 and the area of the US 90/I-310 Interchange in St. Charles Parish.
12/19-09/20	H.011970- Bayou Terrebonne Bridges, Terrebonne Parish, LA (4400010587- Task Order 9)– QC Reviewer for the topographic, terrestrial LiDAR, and hydrographic survey of the Bayou Terrebonne bridges and surrounding area, at the intersection of LA 182 and Bayou Terrebonne.
7/12-12/20	H.012308- Cook Road Improvements, Livingston Parish, LA – QC Reviewer for Topographic and Right-of-Way surveys for this project that designed improvements to an existing section of two-lane roadway and an unimproved area with the construction of a four (4) lane boulevard section from LA Hwy 16 (Pete's Hwy) to LA Hwy 1026 (Juban Road), along with several bridges.
01/20-10/20	H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes, LA (4400010587- Task Orders 6, 7, and 8)- QC Reviewer for the complete topographic survey and Mobile LiDAR of approximately 18.3 miles along I-10, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.

Firm employed by Forte & Tablada, Inc.					
Name Rachel Waldroup, P.L.S.			Years of relevant experience with this employer	8	
Title Profes	sional Land Surveyor		Years of relevant experience with other employer(s)	0	
Degree(s) / Years /	Specialization	E A H	3S Environment Science / 2020 AS Civil, Surveying, and Mapping Technology / 2015 Iydrography & Marine Magnetometry in HYPACK Training – 0	9/21/23	
Active registration	number / state / expiration	n date 5	277 / LA / 9/30/2024		
Year registered	2022 I	Discipline I	Land Surveying		
Contract role(s) / br	rief description of respons	sibilities	Surveyor		
Experience dates	Experience and qualific	cations relevant	to the proposed contract; i.e., "designed drainage", "designed	ed girders", "designed	
(mm/yy–mm/yy)	intersection", etc. Exper	rience dates sho	uld cover the years of experience specified in the applicable MP	R(s).	
05/21-12/22	H.003931- Calcasieu Ri Order 1; 4400021974- T survey, Mobile and Terra is in a high-traffic indust	iver Bridge (H Task Orders 1, estrial LiDAR, trial area along	BI) – Calcasieu Parish, LA (4400010587- Task Order 18; 440 3, and 4) – CADD Technician and PLS for this project provid Multibeam Hydrographic survey of Lake Charles, and drainage to I-210 and is approximately 7 miles long.	0015237- Task ling topographic mapping. This project	
09/21-Ongoing	IDIQ Contract No. 4400021532 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07 – PLS performing property surveys, establishing existing right-of-way, right-of-way maps, and title take-offs for LA DOTD. This contract showcases Ms. Waldroup's familiarity with the process of managing a LADOTD Survey IDIQ Task Order from beginning to end.				
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) – CADD Technician and PLS for topographic surveying and right-of-way mapping services.				
06/20-3/22	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)– CADD Technician for topographic surveying and right-of-way mapping services.				
08/15-Ongoing	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD – CADD Technician responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.				
08/23-Ongoing	H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program- 10 State Project Numbers (13 Bridge Sites) District 61 (4400025029)– Surveyor for topographic surveying and right-of-way mapping services.				
04/21-06/21	H.014628- LA 397: Turn Lanes at Rice Mill, Calcasieu Parish, LA (4400010587- Task Order 17)- Survey CAD Technician responsible for topographic surveying at the intersection of LA 397 and Joe Spears Rd.				
03/21-12/21	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA – Survey CAD Technician for this project providing topographic surveying, Mobile LiDAR, and drainage mapping services. This project is in a dense urban area and is approximately 4 miles long.				
2018-2021	2018-2021 East Baton Rouge Stormwater Masterplan, East Baton Rouge Parish, LA- CADD Technician for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work				

	consisted of establishing cross-sections and stream bed profiles along their length as well as locating over 14,000 subsurface structures for the purposes of hydraulic modeling.
08/19-Ongoing	H.011670- I-10/Loyola Interchange Improvements- Kenner, LA- CADD Technician and PLS 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.
01/18-06/19	 H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes- LA DOTD (4400012323)- CADD Technician for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane. Project required Forte and Tablada, Inc. to mobilize up to 5 Survey Crews to meet phased deadlines.
11/18-3/19	H.011684 LA 327 Spur: Staring Lane Extension- East Baton Rouge Parish, LA (4400010587- Task Orders 1 and 16; 4400021974- Task Order 5)- CADD Technician for a topographic survey, Terrestrial LiDAR, and drainage map for this project, being approximately 1.5 miles long, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30.
10/22-12/22	Lafayette Streetscape Survey- Congress Street, Lafayette Parish, LA – Survey CAD Technician providing topographic and property survey to establish existing right-of-way for approximately a mile of roadway along Congress Street. This survey included mobile LiDAR scanning of all roadway features as a means of obtaining topographic data without endangering surveyors.
03/21-12/21	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA – Survey CAD Technician for this project providing topographic surveying and drainage mapping services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed mobile LiDAR services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.
03/15-08/15	Livingston Drainage Improvements – Bridge Replacements- Livingston Parish, LA- Survey CAD Technician for Surveys of George Mashon and Travis Street for the topographic survey and right-of-way mapping. The purpose of the project was to determine the feasibility of replacing bridges with culverts within the parish.

Firm employed by Forte & Tablada, Inc.							
Name	Brent	M. Campbell	Years of relevant experience with this employer	11			
Title	Senior	AMM Technician	Years of relevant experience with other employer(s)	0			
Degree(s) /	Years /	Specialization	BS / 2013 / Construction Management				
Active regis	stration	number / state / expiration date					
Year registe	ered	Discipline					
Contract ro	le(s) / bi	rief description of responsibilities	Laser Scanning Technician				
Experience	dates	Experience and qualifications releva	nt to the proposed contract; i.e., "designed drainage", "designed	ed girders", "designed			
(mm/yy-m	m/yy)	intersection", etc. Experience dates sh	ould cover the years of experience specified in the applicable MP	R(s).			
		LA DOTD Underwater Acoustic Im	aging - LA 14 Over Delcambre Canal Hydrographic Survey, I	beria Parish, LA –			
06/23-08	8/23	Technician for the area around the LA	A-14 Bridge over Delcambre Canal. The work included typical cro	ss-sections, and water			
00,2000	. 20	bottom features below the waterline w	ere collected using multi-beam and single beam sonar equipment.	Terrestrial LiDAR			
		was used to capture the above water si	irface.				
		LA DOTD Underwater Acoustic Im	aging, Statewide, LA – Technician responsible for aiding in the	field acquisition of			
05/22-10)/22	multibeam hydrographic survey data c	of 10 bridges in South Louisiana. The bridges' locations ranged fro	m Inner Harbor			
		Navigation Canal in New Orleans to the	ne Mississippi River in Baton Rouge. Data was then extracted from	n the multibeam data			
		to provide depths at predetermined loc	ations along the bridge and immediate area.	ndang 2 and 5)			
		H.004/91.5 Belle Chasse Bridge and	his and tampatrial LiDAD survey as nort of communications to norm	ruers 2 and 5)-			
05/17-10)/18	drainage mapping for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a					
		survey performed of bridge and tunnel features					
		H 004698 – Almonaster Avenue Lift	Bridge – Orleans Parish LA– Technician responsible for perfo	rming Terrestrial			
03/13-07	7/15	LiDAR as part of a comprehensive Topographic Survey for LADOTD.					
		H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA (4400010587- Task Order 18; 440	0015237- Task			
05/01 10		Order 1: 4400021974- Task Orders 1, 3, and 4) – Group Leader responsible for this project providing Mobile and					
05/21-12	2/22	Terrestrial LiDAR, and Multibeam Hydrographic survey of Lake Charles. This project is in a high-traffic industrial area along					
		I-210 and is approximately 7 miles lor	ig.	C			
		H.012343 Sunshine Bridge Repair -	St. James Parish, LA (4400010587- Task Orders 2, 3, 4, 5, and	10) – Project			
		Manager responsible for working wit	h the design team to formulate a practical solution for attaining ad	vanced measurements			
		that were compatible with traditional 1	neasuring practices which were required for the structural analysis	and repair design for			
10/18-05	5/19	the bridge. Major role in this project was creating a set of plans to document the damage on this bridge. These plans contained					
		detailed information on structural strai	n and inconsistencies from the original plans. Additionally, assiste	ed in scanning for			
		incremental bridge movement as well as monitoring bridge movement as LADOTD jacked on members to place new beams					
		using Faro Scene and MicroStation.					
		H.004100- I-10: LA 415 to Essen La	ne to I-10 and I-12- East and West Baton Rouge Parishes- LA	DOTD			
01/18-06	5/19	(4400012323)- Project Manager resp	onsible for scanning efforts for topographic survey of approximate	ely 5 miles of roadway			
		along I-10 and I-12 between LSU lake	s and Essen Lane.				

	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish. LA – Mobile LiDAR
03/21-12/21	Tech responsible for assisting with capturing mobile data. Responsible for processing and extracting the Mobile LiDAR data.
	This project is in a dense urban area and is approximately 4 miles long.
00/15 0	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD – Technician responsible for providing terrestrial
08/15-Ongoing	LiDAR scanning for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
	H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, LA (4400021974- Task Order 2) – Group Leader
01/22 01/24	responsible for the management and QAQC of performing Mobile LiDAR and extraction for project providing topographic
01/25-01/24	survey. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a
	road overlay and drainage improvements.
	H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W
01/20 10/20	End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes, LA (4400010587- Task Orders 6, 7, and 8)-
01/20-10/20	Technician for complete Mobile LiDAR of approximately 18.3 miles along I-10, from the East end of the Atchafalaya Bridge
	to the West end of the I-10/LA 415 Interchange.
	Inspection of Metal Culverts - Statewide, LA – Group Leader responsible for the management and QAQC for inspections
10/19-10/20	and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of
	3-D laser scanning, sonar, and LiDAR.
	H.011970- Bayou Terrebonne Bridges, Terrebonne Parish, LA (4400010587- Task Order 9)– Senior Technician for the
12/19-09/20	terrestrial LiDAR survey of the Bayou Terrebonne bridges and surrounding area, at the intersection of LA 182 and Bayou
	Terrebonne.
	H.012083- Calcasieu River Bridge INT Repairs, Calcasieu Parish, LA (4400010587- Task Orders 12, 14, and 15)-
11/19-12/20	Senior Technician to provide laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial
	scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as
	well as from the water below to capture the sub structure. In addition to the terrestrial scans, mobile Lidar was done for future
	planning.

Firm employed by Forte & Tablada, Inc.								
Name	Trent	on Iglehart	Years of relevant experience with this employer	.5				
Title	Senior	CADD Technician	Years of relevant experience with other employer(s)	23				
Degree(s) /	Years /	Specialization	Hydrography & Marine Magnetometry in HYPACK Training - 09	9/21/23				
Active regis	stration	number / state / expiration date						
Year registe	ered	Discipline						
Contract rol	le(s) / bi	rief description of responsibilities	Hydrographic Technician					
Experience	dates	Experience and qualifications releva	nt to the proposed contract; i.e., "designed drainage", "designe	d girders", "designed				
(mm/yy–mi	m/yy)	intersection", etc. Experience dates sh	nould cover the years of experience specified in the applicable MPF	<u>k(s).</u>				
		LA DOTD Underwater Acoustic Im	aging - LA 14 Over Delcambre Canal Hydrographic Survey, Il	oeria Parish, LA –				
06/23-08	8/23	Technician for the area around the LA	A-14 Bridge over Delcambre Canal. The work included typical cros	ss-sections, and water				
00/25 00	. 20	bottom features below waterline were	collected using multi-beam and single beam sonar equipment. Terr	estrial LiDAR was				
		used to capture the above water surfac	e.					
00/00 10		LaDOTD IDIQ Contract for Hydro	graphic Surveying Services, Statewide, LA (4400019715) – Sen	ior CAD Technician				
09/22-12	2/22	for Hydrographic bridge surveys at sci	heduled intervals upstream and downstream for 11 sites throughout	the southern				
		IDIO Vieleburg & Momphie CODI	DS of Engineers Districts Contract No. W012EE 14 D 0002 V	Zaniana I anas Itam				
		IDIQ-VICKSDurg & Memphis CORPS of Engineers Districts - Contract No. w912EE-14-D-0002– various Levee Item						
10/14 0	7/17	surveys, River Revetment Hydrographic surveys and Flood Structure surveys – Senior CAD Technician/Hydrographic						
10/14 - 0	//1/	formate Services under this contract included Topographic Hydrographic Surveys Structure Inspection and Evaluation L&F						
		Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys on over 44 task orders						
		A-E Services for Surveying support	services for the Construction Division within the Vickshurg Di	strict. U.S. Army				
		Corns of Engineers – CAD Technician/Hydrographic Technician for the review editing data compilation and then						
		submitting the project to the Vicksburg District in the required formats. Services under this contract included Topographic and						
2003-20	006	Hydrographic Surveys. Construction surveying services were performed under 63 delivery orders. Most of these task orders						
		included layout and alignment surveys performed during all phases of construction associated with levees, drainage canals and						
		ditches, breakwaters, foreshore protections, dikes, groins, embankments, and maintenance of navigation channels.						
		IDIQ – A&E Contract for Surveyin	g Support Services for the Vicksburg CORPS of Engineers Dis	trict - Contract No.				
		W912EE-05-D-0003 – CAD Technician/Hydrographic Technician for the review, editing, data compilation, and then						
2006-20)09	submitting the project to the Vicksburg District in the required formats. Services under this contract included Topographic,						
		Hydrographic Surveys, Structure Inspection and Evaluation I&E Monitoring Surveys, Geodetic Control Surveys, and						
		Boundary Surveys on 32 task orders.						
		IDIQ – A&E Contract for Surveyin	g Support Services for the Vicksburg CORPS of Engineers Dis	trict - Contract No.				
		W912EE-07-D-0004– Senior CAD T	echnician/Hydrographic Technician for the review, editing, data	compilation, and				
2009-20)11	then submitting the project to the Vick	ssburg District in the required formats. Services under this contract	included topographic,				
		hydrographic surveys, Structure Inspe	ction and Evaluation I&E Monitoring Surveys, geodetic control sur	rveys, and boundary				
		surveys on 26 task orders.						

00/23	H.01504/ Three Mile Lake Flood Reduction– Senior CAD Technician/Hydrographic Task Manager for field data
	collection and processing for all Hydrographic survey data. Field data processing and drafting for topographic surveys. This
07/23	project consisted of Bathymetric cross sections, the survey of the weir and 3d terrestrial laser scans of 4 bridges surrounding 3
	Mile Lake.
	H.010885 LA 91 Bayou Plaquemine Brule Bridge Replacement Acadia Parish (4400010586) – Senior CAD
07/17 07/22	Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field
0//1/-0//22	data processing and drafting for topographic surveys. This project consisted of 0.25 miles of roadway/bridge topographic
	survey and 500' upstream and downstream bathymetric cross sections for Bridge Replacement.
	H.002375: LA DOTD – Amite River Bridge near French Settlement – Route LA 16 – Livingston Parish – Senior CAD
	Technician/Hydrographic Task Manager for field data collection and processing for all hydrographic survey data. Field
09/13-04/14	data processing and drafting for topographic surveys. 3D terrestrial laser scanning and modeling for bridge substructures. This
	project was for constructing a new bridge over Amite River in French Settlement Louisiana to replace the existing swing
	bridge.
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue – Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA –
	Hydrographic Task Manager for topographic surveying for an emergency bridge replacement of the LA 47 bridge over
	Bayou Bienvenue. Due to the emergency status of the project, the project was completed in a condensed timeline.

Firm emplo	Firm employed by Engineering Operations LLC						
Name	Benjar	min Kenney, PE, ADCI			Years of relevant experience with this employer	7	
Title	Team	Lead / Commercial Div	e Supervisor		Years of relevant experience with other employer(s)	10	
Degree(s) /	Years /	Specialization		BS /	2007 / Architectural Engineering		
Active regis	stration	number / state / expirati	ion date	004	1531/ Louisiana / 9/30/2025		
Year registe	ered	2017	Discipline	Civi	1 Engineering		
Contract rol	e(s) / b	rief description of respo	nsibilities	NBI	S Underwater Team Leader NHI Certified ADCI-Certifie	ed Dive Supervisor	
				Mr.	Kenney will serve as an NBIS team leader overseeing underw	vater inspection teams	
				cond	lucting Level I, II, and III inspections. He will ensure exceller	ice in field inspection	
				oper	ations and play a vital role in reviewing report quality.		
Experience	dates	Experience and quali	fications releva	ant to	the proposed contract; i.e., "designed drainage", "designe	d girders", "designed	
(mm/yy–mr	n/yy)	intersection", etc. Exp	perience dates s	hould	cover the years of experience specified in the applicable MPI	$\chi(s).$	
		Louisiana Departme	nt of Transpor	tatio	1 & Development: Statewide Underwater Bridge Inspectio	ns	
		Mr. Kenney is the project principal and oversees the 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					
00/20 0		inspectors, providing t	he experience r	equire	ed to perform successful dive operations and ensure the safety	of the inspection team.	
08/20-Ongo	oing	High flow and limited	visibility cond	tions	are routinely encountered as the team safely performs Level I,	, II, and III underwater	
		dive inspections. Inspe	ections are augn	nentee	d with sonar technology in accordance with the National Bridg	e Inspection Standards	
		(NBIS). Additionally,	Mr. Kenney w	as pa	rt of a multi-disciplinary team tasked with re-writing LaDOT	D's bridge inspection	
		manual. The manual i	involves all asp	ects o	of bridge inspection for the state of Louisiana and addresses	both federal and state	
		requirements.					
		Mississippi Departme	ent of Transpo	rtatio	on: IDIQ Master (On-Call) Contract for Underwater Bridg	e Inspection Services	
		Mr. Kenney served as	project princip	oal foi	eO's prime role on this project. Under this contract, eO per	formed 35 underwater	
		inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certified divers in					
		accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and					
10/20-06/23	5	Transportation Officia	lls (AASHTO).	Inspe	ctions included an assessment of all underwater elements for s	tructural deterioration,	
		assessment of channe	el condition, an	nd a	field assessment of scour conditions at each location. Insp	pection findings were	
		documented in an insp	pection report for	or eacl	h structure that included detailed descriptions of defects and a	bathymetric survey of	
		the channel in the vici	nity. eO is also	a prii	ne consultant for the current contract ($07/23$ -present) and is a	ssigned 86 underwater	
		inspections in District	01 that will be	comp	leted before the end of 2024.		

	Arkansas Department of Transportation: Statewide Underwater Bridge Inspections
06/21-05/24	eO was the sole prime consultant selected to perform underwater inspections for the state of Arkansas. Mr. Kenney was the project principal and oversaw 137 underwater inspections, which included three bridges crossing the Mississippi River, several bridges crossing deep water reservoirs, and bridges over many minor waterways located throughout the state. Surface Supplied Air (SSA) and SCUBA diving operations, supplemented by sonar imaging, were used to perform these inspections. EM-385 and ADCI standards were followed for all dive profiles and plans, including appropriate manning constraints and training requirements. Inspections were performed to satisfy NBIP Metrics and FHWA requirements, including detailed underwater inspection procedures specific to each site in accordance with NBIP Metric 17. Deep water hyperbaric chamber diving operations were performed for seven structures, which included the inspection of several piers exceeding 100-ft in depth.
	Nebraska Department of Transportation: Statewide Underwater Bridge Inspections
09/23-12/23	Mr. Kenney served as the project principal on eO's prime underwater inspection contract for the state of Nebraska. The eO team performed 89 underwater inspections which included eight bridges over the Missouri River, with the remaining structures crossing minor waterways located throughout the state. For the Missouri River bridges, channel contours and profiles were created to monitor scour and streambed migration. The contour maps included an aerial drone image overlay, to develop a day-of-inspection view of the current conditions found at each bridge site. Underwater acoustic imaging (UAI) was also used on the Missouri River to augment the diver's inspection by capturing images of the bridge piers and adjacent channel bottom.
08/18-01/22	Montana Department of Transportation: Statewide Underwater Bridge Inspections Mr. Kenney is the Project Manager as well as a Team Leader/Dive Supervisor on this project. eO was selected as a primary consultant, with Moffatt & Nichol as the sub-consultant, for the Montana Department of Transportation's 2018 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques are utilized for this contract. The inspections focused on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
	Colorado Department of Transportation: Statewide Underwater Bridge Inspection
02/20-Ongoing	Mr. Kenney was the Project Manager and is currently the Project Principal for eO's role as the prime consultant for the Colorado Department of Transportation's 2020 Statewide Underwater Bridge Inspections, with Moffatt & Nichol as a sub- consultant. This contract includes the inspection of several structures crossing the Blue Mesa Reservoir. These inspections require diving in excess of 120-ft and are performed at an altitude of over 7,500-ft. The remainder of the structures include a mix of concrete, steel, and timber bridges that cross waterways throughout the state. Scour assessment is a critical portion of these inspections and Phase 1 scour data is collected during the routine inspections.

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Firm employed by	Engineering Operations LLC						
Name Taylo	or White, PE	Years of relevant experience with this employer	6				
Title Team	Lead / Commercial Dive Supervisor	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 Engineering					
Contract role(s) / b	orief description of responsibilities	NBIS Underwater Team Leader NHI Certified ADCI-Certif	ied Dive Supervisor				
		Mr. White will serve as an NBIS team leader overseeing underw	ater inspection teams				
		conducting Level I, II, and III inspections. He will ensure excelle	ence in field inspection				
		operations and play a vital role in reviewing report quality.					
Experience dates	Experience and qualifications releva	ant to the proposed contract; i.e., "designed drainage", "design	ned girders", "designed				
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicable MI	PR(s).				
	Louisiana Department of Transpor	tation & Development: Statewide Underwater Bridge Inspecti	ons				
	Mr. White is the Project Manager , a	is well as a Team Leader/Dive Supervisor, on eO's sub-consultation	nt role for this recurring				
	contract with Moffatt & Nichol as the	e prime. eO personnel perform as both dive supervisors and dive in	nspectors, providing the				
08/20-Ongoing	experience required to perform succe	essful dive operations and ensure the safety of the inspection team	. High flow and limited				
00/20 01.801.8	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						
	dive supervisor, Mr. White is responsible for ensuring the safety of divers while performing NBIS inspections that include tidal						
	and riverine conditions with varying l	levels of current, minimal visibility, and significant debris buildup	•				
	Arkansas Department of Transport	tation: Statewide Underwater Bridge Inspections					
	eO was the sole prime consultant se	elected to perform underwater inspections for the state of Arkan	sas. Mr. White was the				
	Project Manager and oversaw 137 un	Project Manager and oversaw 137 underwater inspections, which included three bridges crossing the Mississippi River, several					
	bridges crossing deep water reservoirs, and bridges over many of the minor waterways located throughout the state. Surface						
06/21-05/24	Supplied Air (SSA) and SCUBA diving operations, supplemented by sonar imaging, were used to perform these inspections.						
00/21 00/21	EM-385 and ADCI standards were	followed for all dive profiles and plans, including appropriate n	nanning constraints and				
	training requirements. Inspections v	vere performed to satisfy NBIP Metrics and FHWA requireme	ents, including detailed				
	underwater inspection procedures sp	ecific to each site in accordance with NBIP Metric 17. Deep wa	ter hyperbaric chamber				
	diving operations were performed for	seven structures, which included the inspection of several piers ex	ceeding 100-ft in depth.				
	Mississippi Department of Transpo	ortation: IDIQ Master (On-Call) Contract for Underwater Brid	Ige Inspection Services				
	Mr. White served as Project Manag	er for eO's prime role on this project. Under this contract, eO pe	erformed 35 underwater				
	inspections of bridges and culverts i	n Districts 01, 03, and 05. All inspections were performed by A	DCI certified divers in				
10/20-06/23	accordance with National Bridge I	Inspection Standards (NBIS) and the American Association	of State Highway and				
	Transportation Officials (AASHTO).	Inspections included an assessment of all underwater elements for	structural deterioration,				
	assessment of channel condition, an	nd a field assessment of scour conditions at each location. In	spection findings were				
	documented in an inspection report for	or each structure that included detailed descriptions of defects and	a bathymetric survey of				

	the channel in the vicinity. eO is also a prime consultant for the current contract (07/23-present) and is assigned 86 underwater inspections in District 01 that will be completed before the end of 2024.
08/18-01/22	Montana Department of Transportation: Statewide Underwater Bridge Inspections Mr. White was the Project Principal, as well as a Team Leader/Dive Supervisor, this project. eO was selected as a primary consultant teaming with Moffatt & Nichol as a sub-consultant for the Montana Department of Transportation's 2018 and 2022 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques were utilized on this contract. The inspections focused on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
02/20-Ongoing	Colorado Department of Transportation: Statewide Underwater Inspections Mr. White is a Team Leader/Dive Supervisor on this project and led the deep-water/high-altitude inspections at the Blue Mesa Reservoir. eO was selected as the sole prime consultant for the Colorado Department of Transportation's 2020 Statewide Underwater Bridge Inspections with Moffatt & Nichol as a sub-consultant. This contract includes the inspection of several structures crossing the Blue Mesa Reservoir. These inspections require diving in excess of 120-ft and are performed at an altitude of over 7,500-ft. The remainder of the structures include a mix of concrete, steel, and timber bridges that cross waterways throughout the state. Scour assessment is a critical portion of these inspections and Phase 1 scour data is collected during the routine inspections.
08/23-Ongoing	Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater) Mr. White is the Engineer-of-Record and Team Leader/Dive Supervisor 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 FARC (Feasible Action Review Committee) agendas for the Turnpike Enterprise. Mr. White was also a team leader on this contract for several cycles prior to joining eO.
02/24-05/24	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, fracture critical (NSTM), 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 each 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.

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Firm employ	yed by	Engineering Opera	tions LLC				
Name	Samue	el Williams, PE, ADCI		Years of relevant experience with this employer	2		
Title	Team	Lead / Commercial Div	ve Supervisor	Years of relevant experience with other employer(s)	19		
Degree(s) /	Years /	Specialization		MEng / 2010 / Ocean Engineering			
				BS / 2003 / Civil Engineering			
Active regis	tration	number / state / expirat	tion date	0036045 / Louisiana / 3/31/2025			
Year register	red	2011	Discipline	Civil Engineering			
Contract role	$e(s) / b_1$	rief description of respo	onsibilities	NBIS Underwater Team Leader NHI Certified ADCI-C	Certified Dive Supervisor		
				Meets MPR 5			
				Mr. Williams will serve as an NBIS team leader overseeing	underwater inspection		
				teams conducting Level I, II, and III inspections. He will en	sure excellence in field		
				inspection operations and play a vital role in reviewing repo	rt quality.		
Experience of	dates	Experience and qual	ifications relev	int to the proposed contract; <i>i.e.</i> , "designed drainage", "d	esigned girders", "designed		
(mm/yy–mn	n/yy)	intersection", etc. Ex	perience dates s	nould cover the years of experience specified in the applicable	e MPR(s).		
		Louisiana Departme	ent of Transpor	tation & Development: Statewide Underwater Bridge Ins			
		Mr. Williams is the D	eputy Project	Tanager and a Team Leader/Dive Supervisor for eO's sub-col	isultant role on this recurring		
		contract with Molfatt & Nichol as the prime consultant. Mr. Williams has performed hundreds of underwater inspections					
		bridges over the Meuropea Sweeth which areas up to 22 miles of continuous sweeth All increasing are performed in accordance					
08/20-Ongo	ing	with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and Transportation Officials					
		(AASHTO) Manual for Bridge Element Inspection. The scope includes I evel I. II. and III inspections of underwater bridge					
		(AASHTO) Manual for Bridge Element inspection. The scope includes Level 1, 11, and 111 inspections of underwater of dege elements, georeferenced soundings of the channel bottom, and underwater acoustic imaging (UAI) at major crossings and where					
		dive conditions are hazardous. Mr. Williams is responsible for pre-inspection planning, scheduling, field work, inspection reports					
		and ensuring the overall quality standards were unheld.					
	Arkansas Department of Transportation: Statewide Underwater Bridge Inspections						
		eQ was the sole prime	ne consultant se	ected to perform underwater inspections for the state of Ark	ansas Mr Williams was the		
		Deputy Project Manager and oversaw 125 underwater inspections including three Mississippi River crossings, several bridges					
		crossing deep water reservoirs, and bridges over many minor waterways located throughout the state. Surface Supplied Air (SSA)					
06/21-05/24		and SCUBA diving operations, supplemented by sonar imaging were used to perform these inspections FM-385 and ADCI					
00/21 05/21		standards were follow	wed for all dive	profiles and plans, including appropriate manning constrain	ts and training requirements.		
		Inspections were performed to satisfy NBIP Metrics and FHWA requirements, including detailed underwater inspection					
		procedures specific to each site in accordance with NBIP Metric 17. Deep water hyperbaric chamber diving operations w					
		performed for seven structures, which included the inspection of several piers exceeding 100-ft in depth.					
		Mississippi Departm	nent of Transpo	rtation: Statewide Underwater Inspection			
		Mr. Williams served	as Deputy Pro	ect Manager for eO's prime role on this project. Under this	s contract, eO performed 35		
10/20-06/23		underwater inspection	ns of bridges ar	d culverts in Districts 01, 03, and 05. All inspections were p	erformed by ADCI certified		
		divers in accordance	with National I	ridge Inspection Standards (NBIS) and the American Assoc	iation of State Highway and		
		Transportation Offici	als (AASHTO).	Inspections included an assessment of all underwater element	s for structural deterioration,		

	assessment of channel condition, and a field assessment of scour conditions at each location. Inspection findings were documented in an inspection report for each structure that included detailed descriptions of defects and a bathymetric survey of the channel in the vicinity. eO is also a prime consultant for the current contract (07/23-present) and is assigned 86 underwater inspections in District 01 that will be completed before the end of 2024.
	Nebraska Department of Transportation: Statewide Underwater Bridge Inspections
09/23-12/23	Mr. Williams served as the Project Manager on eO's prime underwater inspection contract for the state of Nebraska. The eO team performed 89 underwater inspections which included eight bridges over the Missouri River, with the remaining structures crossing minor waterways located throughout the state. For the Missouri River bridges, channel contours and profiles were created to monitor scour and streambed migration. The contour maps included an aerial drone image overlay, to develop a day-of-inspection view of the current conditions found at each bridge site. Underwater acoustic imaging (UAI) was also used on the Missouri River to augment the diver's inspection by capturing images of the bridge piers and adjacent channel bottom.
	Colorado Department of Transportation: Statewide Underwater Bridge Inspection
02/20-Ongoing	Mr. Williams is a Team Leader/Dive Supervisor on this prime contract for eO, with Mohatt & Nichol as a sub-consultant. This contract includes the inspection of several structures crossing the Blue Mesa Reservoir. These inspections require diving in excess of 120-ft and are performed at an altitude of over 7,500-ft. The remainder of the structures include a mix of concrete, steel, and timber bridges that cross waterways throughout the state. Scour assessment is a critical portion of these inspections and Phase 1 scour data is collected during the routine inspections.
	Louisiana Department of Transportation & Development: In-Depth Bridge Inspection, St. Francisville and Baton Rouge,
01/19-01/20	Louisiana Mr. Williams was an Assistant Project Manager and 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 Fieldwork 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.
	Louisiana Department of Transportation & Development: In-Depth Bridge Inspection, Boyce and Simmesport,
01/20-01/21	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.

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Firm employed by	Engineering Operations LLC				
Name Aaron	n Richardson	Years of relevant experience with this employer	5		
Title Team	Lead / Commercial Diver	Years of relevant experience with other employer(s)	5		
Degree(s) / Years	/ Specialization	BS / 2015 / Civil Engineering, Structural Emphasis			
Active registration	n number / state / expiration date	90914 / Florida / 2/28/25			
Year registered	2020 Discipline	Civil Engineering			
Contract role(s) / b	prief description of responsibilities	NBIS Team Leader NHI Certified ADCI-Certified Diver			
		As an ADCI-Certified Diver, Mr. Richardson will conduct com	prehensive underwater		
		bridge inspections at Levels I, II, and III to pinpoint structural	weaknesses, scour, and		
		channel conditions potentially impacting the bridge.			
Experience dates	Experience and qualifications releva	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designe	gned girders", "designed		
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicable N	IPR(s).		
	Louisiana Department of Transpor	tation & Development: Statewide Underwater Bridge Inspec	tions		
	Mr. Richardson serves as an Inspecti	on Team Leader on multiple bridge inspection trips for eO's a su	ib-consultant role for this		
	recurring contract with Moffatt & Nic	chol (M&N) as the prime. High flow and limited visibility are rou	tinely encountered as the		
08/20 Ongoing	dive team safely performs Level I, II, and III underwater inspections. Inspections are augmented with sonar technology in				
08/20-Oligoling	accordance with the National Bridge Inspection Standards (NBIS). In the field, Mr. Richardson is able to integrate seamlessly				
	into the 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 safely perform underwater inspection operations. 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 proc				
	Arkansas Department of Transport	tation: Statewide Underwater Bridge Inspections			
	Mr. Richardson served as a Team Le	ader/Diver for eO's prime role on this contract. The project cor	sisted of 137 underwater		
	inspections including three bridges crossing the Mississippi River, several bridges crossing deep water reservoirs, and bridges				
06/21 05/24	over many minor waterways located throughout the state. Surface Supplied Air (SSA) and SCUBA diving operations,				
00/21-03/24	supplemented by sonar imaging, wer	e used to perform these inspections. EM-385 and ADCI standa	rds were followed for all		
	dive profiles and plans, including ap	propriate manning constraints and training requirements. Inspec	tions were performed to		
	satisfy NBIP Metrics and FHWA requirements, including detailed underwater inspection procedures specific to each site in				
	accordance with NBIP Metric 17. Deep water hyperbaric chamber diving operations were performed for seven structures, which				
	Included the hispection of several ple	is exceeding 100-it in deptil.			
	Colorado Department of Transport	tation: Statewide Underwater Inspections	1 0 1		
	Mr. Richardson currently serves as th	e Project Manager on this contract. eO was selected as the sole	consultant for the CDOT		
02/20-Ongoing	Statewide Underwater Inspection Co	ntract. eO performs all underwater inspections for CDOT. Mr.	Kichardson manages this		
	contract which was divided into three	task orders for the Un-System, Utf-System, and Blue Mesa Reser	voir bridges. Deliverables		
	include a standalone report of und	Seture (DeM) Is addition to the profile plots, and su	omital of data through		
1	AASHIOWare Bridge Management	Software (Brivi). In addition, our team supplemented 16 und	erwater inspections with		

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	hydrographic channel surveys overlain with drone imagery. Three structures at Blue Mesa Reservoir required deep diving operations and decompression chamber on-site in accordance with OSHA.
	Nebraska Department of Transportation: Statewide Underwater Bridge Inspections
09/23-12/23	Mr. Richardson served as the Deputy Project Manager on eO's prime underwater inspection contract for the state of Nebraska. The team performed 89 underwater inspections which included eight bridges over the Missouri River, with the remaining struc- tures crossing minor waterways throughout the state. For the Missouri River bridges, channel contours and profiles were created to monitor scour and streambed migration. The contour maps included an aerial drone image overlay, to develop a day-of- inspection view of the current conditions found at each bridge site. Underwater acoustic imaging (UAI) was also used on the Missouri River to augment the diver's inspection by capturing images of the bridge piers and adjacent channel bottom.
	Montana Department of Transportation: Statewide Underwater Inspection Contract
08/18-01/22	Mr. Richardson was an Inspector and Diver on this project. eO was selected as a prime consultant and teamed with Moffatt & Nichol as the sub-consultant for the Montana Department of Transportation's 2018 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques are utilized for this contract. The inspections focus on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
	North Dakota Department of Transportation: Statewide Underwater Bridge Inspections
05/23-11/23	Mr. Richardson served as Deputy Project Manager for eOs' role as prime consultant for all underwater bridge inspections in the state of North Dakota. The substructures inspected were composed of a variety of concrete, steel and timber elements, with 27 of these structures requiring an initial underwater inspection. Bathymetric surveys and sonar scans of each substructure unit were also provided for all seven structures crossing the Missouri River. Drone imaging was taken at all structures to supplement channel and scour evaluations and were overlaid on each structure's channel contour plot to provide a real-time view of the channel's condition at the structure. Additionally, the inspection team provided in-depth analyses and/or calculations when critical section loss and/or scour were found.
	Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)
08/23-Ongoing	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.

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Firm employed b	y Engineering Operations LLC						
Name Kyl	e Rankin	Years of relevant experience with this employer	6				
Title Tea	m Lead / Commercial Dive Supervisor	Years of relevant experience with other employer(s)	8				
Degree(s) / Year	s / Specialization						
Active registration	on number / state / expiration date	N/A					
Year registered	N/A Discipline	N/A					
Contract role(s)	brief description of responsibilities	IHI Certified ADCI-Certified Dive Supervisor CBI					
		As an ADCI-Certified Diver, Mr. Rankin will conduct comprehensive underwater					
		bridge inspections at Levels I, II, and III to pinpoint structural w	eaknesses, scour, and				
		channel conditions potentially impacting the bridge.					
Experience dates	Experience and qualifications releva	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designe	ned girders", "designed				
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicable M	PR(s).				
	Louisiana Department of Transpor	tation & Development: Statewide Underwater Bridge Inspect	ion				
	Mr. Rankin is a Team Leader/Dive	Supervisor for eO's sub-consultant role on this recurring contrac	t with Moffatt & Nichol				
	as the prime. eO personnel perform	as the prime. eO personnel perform as both dive supervisors and dive inspectors, providing the experience required to					
08/20-Ongoing	successfully perform dive operations across the state 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 dive supervisor,						
	Mr. Rankin is responsible for ensuring the safety of divers while performing NBIS inspections that include tidal and riverine						
	conditions with varying levels of curr	ent, minimal visibility, and significant debris buildup.					
	Arkansas Department of Transportation: Statewide Underwater Bridge Inspection						
	Mr. Rankin served as a Team Leader/Diver for eO's prime role on this contract. The project consisted of 137 underwater						
	inspections, including three bridges c	inspections, including three bridges crossing the Mississippi River, several bridges crossing deep water reservoirs, and bridges					
06/21 05/24	over many of the minor waterways located throughout the state. Surface Supplied Air (SSA) and SCUBA diving operations,						
06/21-05/24	supplemented by sonar imaging, were used to perform these inspections. EM-385 and ADCI standards were followed for all						
	dive profiles and plans, including appropriate manning constraints and training requirements. Inspections were performed to						
	satisfy NBIP Metrics and FHWA requirements, including detailed underwater inspection procedures specific to each site in						
	accordance with NBIP Metric 1/. Deep water hyperbaric chamber diving operations were performed for seven structures, which						
	included the inspection of several pie	included the inspection of several piers exceeding 100-ft in depth.					
	Montana Department of Transport	ation: Statewide Underwater Inspection Contract					
	Mr. Rankin was a Team Leader/Di	ve Supervisor on this project. eO was selected as a prime cons	sultant and teamed with				
	Moffatt & Nichol as the sub-consult	ant for the Montana Department of Transportation's 2018 States	vide Underwater Bridge				
08/18-01/22	Inspections. This project involved ve	ry technical diving including swift water, black water, and deep-	water diving. Extensive				
	dive safety plans were developed an	d followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive				
	techniques were utilized for this contr	act. The inspections focus on bridge foundations and scour analys	is for structures crossing				
	major rivers throughout the state.						

	Nebraska Department of Transportation: Statewide Underwater Bridge Inspections
09/23-12/23	Mr. Rankin served as a Team Leader on eO's prime underwater inspection contract for the state of Nebraska. The team performed 89 underwater inspections which included eight bridges over the Missouri River, with the remaining structures crossing minor waterways located throughout the state. For the Missouri River bridges, channel contours and profiles were created to monitor scour and streambed migration. The contour maps included an aerial drone image overlay, to develop a day-of-inspection view of the current conditions found at each bridge site. Underwater acoustic imaging (UAI) was also used on the Missouri River to augment the diver's inspection by capturing images of the bridge piers and adjacent channel bottom.
10/20-06/23	Mississippi Department of Transportation: Statewide Underwater Inspection Mr. Rankin served as a Team Leader/Dive Supervisor for eO's prime role on this project. Under this contract, eO performed 35 underwater inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certified divers in accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and Transportation Officials (AASHTO). Inspections included an assessment of all underwater elements for structural deterioration, assessment of channel condition, and a field assessment of scour conditions at each location. Inspection findings were documented in an inspection report for each structure that included detailed descriptions of defects and a bathymetric survey of the channel in the vicinity. eO is also a prime consultant for the current contract (07/23-present) and is assigned 86 underwater inspections in District 01 that will be completed before the end of 2024.
02/20-Ongoing	Colorado Department of Transportation: Statewide Underwater Inspections Mr. Rankin serves as a Team Leader/Dive Supervisor on this contract. eO was selected as the sole consultant for the CDOT Statewide Underwater Inspection Contract. eO performs all underwater inspections for CDOT. This contract is divided into three task orders for the On-System, Off-System, and Blue Mesa Reservoir bridges. Deliverables included a standalone report of underwater findings, channel contour and profile plots, and submittal of data through AASHTOWare Bridge Management Software (BrM). In addition, our team supplemented 16 underwater inspections with hydrographic channel surveys overlain with drone imagery. Three structures at Blue Mesa Reservoir required deep diving operations and decompression chamber onsite in accordance with OSHA.
08/23-Ongoing	Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater) Mr. Rankin is 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.

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Firm employed by	Engineering Operations LLC						
Name Luis A	Andrion	Years of relevant experience with this employer	2				
Title Team	Lead / Commercial Diver	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) / b	rief description of responsibilities	JHI Certified ADCI-Certified Diver					
		As a team leader and ADCI-Certified Diver, Mr. Andrion will conduct comprehensive					
		underwater bridge inspections at Levels I, II, and III to pinpoint s	underwater bridge inspections at Levels I, II, and III to pinpoint structural weaknesses,				
		scour, and channel conditions potentially impacting the bridge.					
Experience dates	Experience and qualifications relev	ant to the proposed contract; i.e., "designed drainage", "design	ned girders", "designed				
(mm/yy–mm/yy)	intersection", etc. Experience dates s	hould cover the years of experience specified in the applicable MF	PR(s).				
	Louisiana Department of Transpor	tation & Development: Statewide Underwater Bridge Inspecti	on				
	Mr. Andrion is a Team Leader/Diver	· for eO's sub-consultant role on this recurring contract with Moffat	t & Nichol as the prime.				
	eO personnel perform as both dive s	apervisors and dive inspectors, providing the experience required	to successfully perform				
08/20-Ongoing	dive operations across the state 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 dive supervisor, Mr. Rankin						
	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.						
	Arkansas Department of Transportation: Statewide Underwater Bridge Inspections						
	Mr. Andrion served as an Assistan	Mr. Andrion served as an Assistant Inspector/Diver for eO's prime role on this contract. The project consisted of 137					
	underwater inspections, including the	ee bridges crossing the Mississippi River, several bridges crossing	g deep water reservoirs,				
06/21 05/24	and bridges over many of the minor waterways located throughout the state. Surface Supplied Air (SSA) and SCUBA diving						
00/21-03/24	operations, supplemented by sonar imaging, were used to perform these inspections. EM-385 and ADCI standards were followed						
	for all dive profiles and plans, including appropriate manning constraints and training requirements. Inspections were performed						
	to satisfy NBIP Metrics and FHWA requirements, including detailed underwater inspection procedures specific to each site in						
	accordance with NBIP Metric 17. Deep water hyperbaric chamber diving operations were performed for seven structures, which						
	included the inspection of several pie	rs exceeding 100-ft in depth.					
	Mississippi Department of Transpo	ortation: Statewide Underwater Inspection					
	Mr. Andrion served an Assistant Inspector/Diver for eO's prime role on this project. Under this contract, eO performed 35						
	underwater inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certified						
10/20 06/22	divers in accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and						
10/20-06/23	Transportation Officials (AASHTO). Inspections included an assessment of all underwater elements for structural deterioration,						
	assessment of channel condition, a	in a new assessment of scour conditions at each location. In	spection findings were				
	the channel in the visinity of is also	of each subcure that included detailed descriptions of defects and a prime consultant for the current contract $(07/22 \text{ present})$ and is	a ballymetric survey of				
	the channel in the vicinity. eO is also a prime consultant for the current contract $(0^{1/23}$ -present) and is assigned 86 underwater						
	Inspections in District UI that will be	completed before the end of 2024.					

	Montana Department of Transportation, Statewide Underwater Inspection Contract
08/18-01/22	Mr. Andrion was an Inspector and ADCI Commercial Diver on this project. eO was selected as a prime consultant and teamed with Moffatt & Nichol as the sub-consultant for the Montana Department of Transportation's 2018 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques were utilized for this contract. The inspections focus on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
	Colorado Department of Transportation: Statewide Underwater Inspections
02/20-Ongoing	Mr. Andrion is a Team Leader , ADCI Commercial Diver , and Report Technician on eO's prime consultant role for this project. eO was selected as the sole consultant for the CDOT Statewide Underwater Inspection Contract. eO performs all underwater inspections for CDOT. This contract is divided into three task orders for the On-System, Off-System, and Blue Mesa Reservoir bridges. Deliverables included a standalone report of underwater findings, channel contour and profile plots, and submittal of data through AASHTOWare Bridge Management Software (BrM). In addition, our team supplemented 16 underwater inspections with hydrographic channel surveys overlain with drone imagery. Three structures at Blue Mesa Reservoir required deep diving operations and decompression chamber on-site in accordance with OSHA.
	Florida Turnpike North: Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater)
08/23-Ongoing	Mr. Andrion 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 includes 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.

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Firm employed by	Engineering Operations LL	С		
Name Conn	or Kenney		Years of relevant experience with this employer	7
Title Team	Leader / ADCI-Commercial Div	er	Years of relevant experience with other employer(s)	0
Degree(s) / Years	[/] Specialization			
Active registration	number / state / expiration date	N/2	A	
Year registered	N/A Discip	ine N/A	A	
Contract role(s) / brief description of responsibilities As brid cha		Certified Bridge Inspector ADCI-Certified Diver As an ADCI-Certified Diver, Mr. Kenney will conduct comprehensive underwater bridge inspections at Levels I, II, and III to pinpoint structural weaknesses, scour, and channel conditions potentially impacting the bridge.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications intersection", etc. Experience	relevant t dates shoul	o the proposed contract; <i>i.e.</i> , "designed drainage", "designed cover the years of experience specified in the applicable MI	ned girders", "designed PR(s).
08/20-Ongoing	yoing Louisiana Department of Transportation: Statewide Underwater Bridge Inspections Mr. Kenney is a Team Leader and ADCI commercial diver 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.			
10/20-06/23	Mississippi Department of Transportation: Statewide Underwater Inspection Mr. Kenney served as an Assistant Inspector/Diver for eO's prime role on this project. Under this contract, eO performed 3 underwater inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certifie divers in accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway an Transportation Officials (AASHTO). Inspections included an assessment of all underwater elements for structural deterioration assessment of channel condition, and a field assessment of scour conditions at each location. Inspection findings wer documented in an inspection report for each structure that included detailed descriptions of defects and a bathymetric survey of the channel in the vicinity. eO is also a prime consultant for the current contract (07/23-present) and is assigned 86 underwated inspections in District 01 that will be completed before the end of 2024.			
06/21-05/24	Arkansas Department of Tra Mr. Kenney served as an In- underwater inspections, include and bridges over many of the operations, supplemented by se profiles and plans, including a NBIP Metrics and FHWA requires with NBIP Metric 17. Deep we the inspection of several piers	nsportatio pection A ing three br minor wate onar imagin opropriate 1 irements, in ater hyperb exceeding 1	n: Statewide Underwater Bridge Inspection ssistant/Diver for eO's prime role on this contract. The p ridges crossing the Mississippi River, several bridges crossin ways located throughout the state. Surface Supplied Air (SS ag, were used to perform these inspections. ADCI standards w manning constraints and training requirements. Inspections w ncluding detailed underwater inspection procedures specific to aric chamber diving operations were performed for seven str 100-ft in depth.	roject consisted of 137 g deep water reservoirs, SA) and SCUBA diving ere followed for all dive ere performed to satisfy b each site in accordance uctures, which included

	Colorado Department of Transportation: Statewide Underwater Inspections
02/22-Ongoing	Mr. Kenney is a Team Leader, ADCI Commercial Diver , and Report Technician on eO's prime consultant role for this project. eO was selected as the sole consultant for the CDOT Statewide Underwater Inspection Contract. eO performs all underwater inspections for CDOT. This contract is divided into three task orders for the On-System, Off-System, and Blue Mesa Reservoir bridges. Deliverables included a standalone report of underwater findings, channel contour and profile plots, and submittal of data through AASHTOWare Bridge Management Software (BrM). In addition, our team supplemented 16 underwater inspections with hydrographic channel surveys overlain with drone imagery. Three structures at Blue Mesa Reservoir required deep diving operations and decompression chamber on-site in accordance with OSHA.
08/18-01/22	Montana Department of Transportation: Statewide Underwater Inspection Contract Mr. Kenney was an Inspector and ADCI Commercial Diver on this project. eO was selected as a prime consultant and teamed with Moffatt & Nichol as the sub-consultant for the Montana Department of Transportation's 2018 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques were utilized for this contract. The inspections focus on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
08/23-Ongoing	Florida Turnpike North - Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater) Mr. Kenney 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 Enterprise.
01/19-Ongoing	Florida Department of Transportation: District Five – Statewide Bridge Routine and Underwater Inspections Mr. Kenney is a Team Leader and ADCI Commercial Diver on this project and oversees the inspections of structures district wide for FDOT District Five, 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. Both commercial SCUBA diving and Surface Supplied Air (SSA) diving methods are used on this project.

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Firm employ	red by	Engineering Operati	ions LLC					
Name	Sam Ca	m Cabrera			Years of relevant experience with this employer	4		
Title	Engine	er In Training			Years of relevant experience with other employer(s)	0		
Degree(s) / Y	lears / S	Specialization		BS /	2020 / Civil Engineering			
Active regist	ration n	number / state / expiration	on date	N/A				
Year register	ed	N/A	Discipline	Civi	1 Engineering			
Contract role	e(s) / bri	ief description of respon	nsibilities	NHI	NHI Certified ADCI-Certified Diver			
				As a	n ADCI-Certified Diver, Mr. Cabrera will conduct comprehe	ensive underwater		
				brid	ge inspections at Levels I, II, and III to pinpoint structural we	aknesses, scour, and		
				char	nel conditions potentially impacting the bridge.			
Experience d	lates	Experience and qualif	fications releva	int to	the proposed contract; i.e., "designed drainage", "designed	ed girders", "designed		
(mm/yy–mm	n/yy)	intersection", etc. Exp	erience dates s	hould	cover the years of experience specified in the applicable MP	R(s).		
		Louisiana Departmer	it of Transpor	tatio	1: Statewide Underwater Bridge Inspections			
		Mr. Cabrera is a Tear	n Leader and	ADC	I Commercial Diver for eOs' sub-consultant role on this p	project, which includes		
08/20 Ongoi	na	underwater inspections throughout the state. The eO team works directly with the prime consultant to perform detailed						
00/20-Oligoi	ng	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 insp	ection findings	repor	ts that are based on the LaDOTD and FHWA guidelines.			
		Arkansas Departmen	t of Transport	tation	: Statewide Underwater Bridge Inspections			
		Mr. Cabrera was an Assistant Inspector, ADCI Diver, and Report Technician for eOs' primary role on this project, which						
06/21-05/24		included underwater inspections, sonar imaging, and swift water diving throughout the state. This project also included the						
		inspection of State Road 12 over Beaver Lake, which required diving in excess of 100-ft. Inspections on this project required						
		the use of commercial SCUBA diving and Surface Supplied Air (SSA) methods.						
		Mississippi Departme	ent of Transpo	rtatio	on: Statewide Underwater Inspection			
		Mr. Cabrera served as a Report Technician for eO's prime role on this project. Under this contract, eO performed 35 underwater						
		inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certified divers in						
		accordance with National Bridge Inspection Standards (NBIS) and the American Association of State Highway and						
10/20-06/23		Transportation Officials (AASHTO). Inspections included an assessment of all underwater elements for structural deterioration,						
		assessment of channe	l condition, an	nd a	field assessment of scour conditions at each location. Ins	spection findings were		
		documented in an insp	ection report fo	or eacl	n structure that included detailed descriptions of defects and a	a bathymetric survey of		
		the channel in the vicin	nity. eO is also	a prin	ne consultant for the current contract (07/23-present) and is a	assigned 86 underwater		
		inspections in District	01 that will be	comp	leted before the end of 2024.			

09/23-12/23	Nebraska Department of Transportation: Statewide Underwater Bridge Inspections Mr. Cabrera served an Assistant Inspector/Diver on eO's prime underwater inspection contract for the state of Nebraska. The eO team performed 89 underwater inspections including eight bridges over the Missouri River, with the remaining structures crossing minor waterways located throughout the state. For the Missouri River bridges, channel contours and profiles were created to monitor scour and streambed migration. The contour maps included an aerial drone image overlay, to develop a day- of-inspection view of the current conditions found at each bridge site. Underwater acoustic imaging (UAI) was also used on the Missouri River to augment the diver's inspection by capturing images of the bridge piers and adjacent channel bottom.
08/18-01/22	Montana Department of Transportation: Statewide Underwater Inspection Contract Mr. Cabrera was an Assistant Inspector and Report Technician on this project. eO was selected as a prime consultant and teamed with Moffatt & Nichol as the sub-consultant for the Montana Department of Transportation's 2018 Statewide Underwater Bridge Inspections. This project involved very technical diving including swift water, black water, and deep-water diving. Extensive dive safety plans were developed and followed for this project. Commercial Surface Supplied Air (SSA) and SCUBA dive techniques were utilized for this contract. The inspections focus on bridge foundations and scour analysis for structures crossing major rivers throughout the state.
02/20-Ongoing	Colorado Department of Transportation: Statewide Underwater Bridge Inspection Mr. Cabrera is the Deputy Project Manager for eO's role as the prime consultant for the Colorado Department of Transportation's 2020 Statewide Underwater Bridge Inspections, with Moffatt & Nichol as a sub-consultant. This contract includes the inspection of several structures crossing the Blue Mesa Reservoir. These inspections require diving in excess of 120-ft and are performed at an altitude of over 7,500-ft. The remainder of the structures include a mix of concrete, steel, and timber bridges that cross waterways throughout the state. Scour assessment is a critical portion of these inspections and Phase 1 scour data is collected during the routine inspections.
08/23-Ongoing	Florida Turnpike North - Bridge, Sign, LNQC, and HMLT Inspections (Routine & Underwater) Mr. Cabrera is a Report Technician and 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 FARC (Feasible Action Review Committee) agendas for the Turnpike Enterprise.
01/19-Ongoing	Florida Department of Transportation District Five: State Bridge Inspection Contract Mr. Cabrera is an ADCI Commercial Diver and Team Leader for eO's sub-consultant role on this project, which consists of district-wide structure inspections for FDOT District Five (both routine and underwater). These inspections include routine topside, culverts, substructures, fender systems, embankment bulkhead/retaining walls, and channel bottoms. Preparation of detailed engineering reports with drawings and underwater photographs documenting existing conditions at each bridge is required on this contract. Both commercial SCUBA diving and Surface Supplied Air (SSA) diving methods are used on this project.

17. Firm Experience: PROJECT 1

Firm name	Moffatt & Nichol	Past Performance Evalua	tion Discipline(s)* Bridge		
Project name	Underwater Bridge Inspections,	, Statewide		Firm responsib	ility (prime or sub	?) Prime
Project number	H.009730.5 Task Order 2	Owner's name	Louisiana Department of Transportation and Development			
Project location	Statewide Louisiana		Owner's Proje	ect Manager	Stephanie Doolittl	e, PE
Owner's address, phone, email 1212 East Highway Drive, Baton Rouge, Louisiana 70802, 225-379-1329, stephanie.dootlittle@la.gov				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

As part of a five-year retainer contract, Moffatt & Nichol (M&N) has been tasked with performing underwater bridge inspections for over 476 bridges throughout the state of Louisiana through Task Order 2 and over 800 bridges between all three task orders on this contract. The bridges consist of small to mid-sized waterways along with 9 bridges passing through large swamps and bayous that vary between 3 and 14 miles long, 15 culverts, and 4 bridges crossing over large waterways (Mississippi River, Prien Lake, and Whiskey Bay Channel). Many of the bridges crossed over waterways inhabited by alligators, which posed a potential hazard to the inspectors. To mitigate the probability of an incident, M&N implemented a Louisiana Department of Wildlife and Fisheries-approved nuisance alligator trapper during inspections at specific locations. M&N has safely performed Level I, II, and III, underwater dive inspections and emergency damage assessments while augmenting 2D and 3D SONAR technologies per 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 to identify channel bottom conditions and structural deterioration. Underwater Acoustic Imaging (UAI) services were provided over large navigable waterways with high-risk diving conditions such as fast currents, low visibility, heavy debris, extreme depths, cold water, and vessel traffic.

Scour evaluations (inherent to underwater bridge inspections) are vital to the inspection and report process. All inspector-divers 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.

RELEVANCE TO LADOTD



Key Team Members: Chace Hulon, Jonathan Hird, Jeffrey Gazarek, Chip Eschenbach, Akash Chaurasia, Armando Gonzalez, Bryan Tyson, Charles Balzarini, Eric Jones, Heidi Kuntz, Pentas Herodotos, Kyle Bailey, Louis Baeza, Stephanie Athanas, Wade Wise

Firm Experience: PROJECT 2

Firm name	Moffatt & Nichol	Past Performance Evalu	uation Discipline(s)* Bridge		
Project name	Underwater Bridge Inspections			Firm responsibilit	y (prime or sub?) Prime
Project number	H.009730.5, Task Order No. 1	Owner's name	e Louisiana Department of Transportation and Development			
Project location	Statewide Louisiana		Owner's Pro	ject Manager S	tephanie Doolittl	e, PE
Owner's address,	Owner's address, phone, email 1212 East Highway Drive, Baton Rouge, Louisiana 70802, 225-379-1329, stephanie.dootlittle@la.gov					
Services commenced by this firm (mm/yy) 08/20			Total consultant contract cost (\$1,000's)		\$1,131	
Services completed by this firm (mm/yy) 10/22			Cost of consultant services	provided by this f	rm (\$1,000's)	\$876

As part of a five-year retainer contract, Moffatt & Nichol (M&N) has been tasked with performing underwater bridge inspections for 91 bridges throughout the state of Louisiana through Task Order 1. M&N efficiently inspected these bridges using a combination of shore entry and small to mid-sized boats and completed all inspections on or ahead of schedule. Bridges included moveable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span bridges. M&N has safely performed Level I, II, III, and emergency underwater dive inspections while augmenting SONAR technology in accordance with 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 bridge piers/bents are collected to identify channel bottom conditions and structural deterioration. Underwater acoustic imaging services were provided over large navigable waterways with high-risk environmental conditions such as fast currents, low visibility, heavy debris, extreme depths, cold water, and vessel traffic.

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.

Key Team Members: Chace Hulon, Chip Eschenbach, Jeffrey Gazarek, Wade Wise, Charles Balzarini, Herodotos Pentas, Kimberly Gravatt, Louis Baeza, Sam Williams, Stephanie Athanas

RELEVANCE TO LADOTD

- ✓ NBIS Underwater Bridge Inspection & Reporting
- ✓ Underwater Acoustic Imaging
- ✓ Hydrographic Surveying
- ✓ NBE and BME ratings
- ✓ Retainer Contract
- Electronic submittals
- ✓ USCG VTS Lower MS River
- Emergency Response
- TTC & Work Zone Safety



Underwater Image of the I-10 Bridge Pier in the Atchafalaya River
Firm name	Moffatt & Nichol		Past Performance Evaluation Dis	scipline(s)* Bridge	
Project name	LaDOTD Complex Bridg	ge Inspection	Firm res	sponsibility (prime or sub?) Sub
Project number	H.009730.5, Task 03	Owner's name	Louisiana Department of Transpo	ortation and Development	
Project location	Louisiana		Owner's Project Man	ager Stephanie Doolittl	le, PE
Owner's address, phone, email 1201 Capitol Access Road, Bat			Rouge, Louisiana 70802 225-379-1	1329, stephanie.dootlittle@)la.gov
Services commenced	by this firm (mm/yy)	02/23	Fotal consultant contract cost (\$1,00	00's)	\$470
Services completed by	v this firm (mm/yy)	12/24	Cost of consultant services provided	d by this firm (\$1,000's)	\$260

Moffatt & Nichol (M&N) is part of a team responsible for performing bridge inspection of complex structures statewide utilizing an indefinite delivery/indefinite quantity contract. Structure types include cantilever trusses, cable-stayed bridges, steel vertical lift bridges, and plate girder bascule bridges. Tasks include providing bridge inspections, SPRAT/rope access, underwater inspections, bridge ratings, categorization and documentation of bridge assets, and the development of the LaDOTD Bridge Inspection Manual and the Coding and Field Guide. All statewide inspections of in-service bridges throughout Louisiana are performed in accordance with Federal Highway Administration guidelines. Representative tasks include the following. The comprehensive in-depth reports included a detailed summary of the rope access inspection methodology, inspection findings of current conditions and noted deficiencies, field notes, and photographs.

M&N developed major updates to the manual, including off-system directives, to support the creation of a new Bridge Load Rating Manual and a new Coding and Field Guide. A team of subject matter experts

contributed to the development and reviews at periodic milestones. M&N collaborated with the LaDOTD staff throughout the development to manage expectations and maintain direction. In-person progress meetings occurred monthly that included facilitating various District Bridge Engineers throughout the state. The manual is compliant with the NBIP Program (23 Metrics and the 3 New Metrics). The manual is thoughtfully organized systemically and interactively with an appendix to store all vital updated forms for the Bridge Inspection Program. The Load Rating Manual will be the final development task and complement the other documents in content and format. The Coding and Field Guide is uniquely designed for a seamless navigation experience. 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.

Key Team Members: Chace Hulon, Bryan Tyson, Chip Eschenbach, Jeffrey Gazarek, Heidi Kuntz, Herodotos Pentas, Stephanie Athanas, Wade Wise

RELEVANCE TO LADOTD

Bridge Inspection Manual
Underwater Bridge Inspection & Assessment
Acoustic Imaging
Hydrographic Surveying
NBE and SNBI ratings
Retainer Contract
In-Depth Inspection & Reports
TTC & Work Zone Safety



Firm name	Moffatt & Nichol		Past Performance Evaluation Discipline(s)* Bridge			
Project name	USACE Bridge and Wate	erfront Inspection S	ervices; Ft. Polk, LA	Firm responsibility (prime or sub	?) Prime	
Project number	Task 4	Owner's name	U.S. Army Corps of Engineers, Engineer Research and Development Cent			
Project location	Multiple locations in Lou	iisiana	Owner's Pro	ject Manager Gerardo Velazqu	ez	
Owner's address, phor	ne, email 3909 Halls Fer	ry Road, Bldg 5014	, Room 41, Vicksburg, MS	S 39180-6199		
Services commenced by this firm (mm/yy) 08/22			Total consultant contract cost (\$1,000's)\$273			
Services completed by	v this firm (mm/yy)	03/23	Cost of consultant services	provided by this firm (\$1,000's)	\$268	

Moffatt & Nichol (M&N), as part of a joint venture, is contracted to support the U.S. Army Corps of Engineers, Engineer Research and Development Center (USACE ERDC) with the engineering, design, and associated support services for bridge and waterfront facility inspections worldwide. Engineering condition assessments are performed in accordance with the National Bridge Inspection Standards (NBIS), National Tunnel Inspection Standards, Federal Railroad Administration, Engineer Regulation 1110-2-111, Army Regulation 420-1, and Unified Facilities Criteria 4-150-07 and 08. All U.S. Army Garrison (USAG) Fort Polk inspections comply with the USACE Bridge Safety Program and the 23 CFR Part 650 to ensure the bridge inventory is safe for the intended purpose and to identify maintenance and repair items.

M&N coordinated all work with the Fort Polk point of contact via pre-inspection letters/schedules, a series of meetings and briefings with presentations, a post-inspection letter with an updated bridge inventory file, and a final report submittal with an executive summary. Task order included the 63 Federal Highway Administration (FHWA) reportable structures in the Fort Polk inventory. Structure types included multi-beam reinforced concrete bridges, reinforced concrete pipe and box culverts, and corrugated metal arch bridges and pipe culverts. Four bridges required a NBIS underwater inspection and were completed by M&N's Association of Diving Contractors International- and EM385-compliant dive team. Scheduling of the inspections required close coordination with Range Control and the Department of Public Works to avoid impacting the daily activities of the installation. All elements were given a condition rating and quantities were verified. Load ratings were reviewed, and recommendations were made to update ratings where conditions had changed significantly. One critical finding was reported to the base point of contact and the ERDC project manager. A formal out-briefing was prepared and presented to the Department of Public Works upon completion of inspections. Detailed draft reports with repair recommendations and estimated repair costs were submitted within 60 days.

RELEVANCE TO LADOTD



Temporary Traffic Control



As part of this retainer contract, M&N also performed a complex in-depth inspection and investigation with service life engineering of an 80 yr-old concrete open wharf that included, concrete core extraction, material testing, system health monitoring with 3D models, a deterioration analysis, and a life cycle cost analysis.

Key Team Members: Chace Hulon, Martin Anderson, Charles Balzarini, Jeffrey Gazarek, Chip Eschenbach, Louis Baeza, Stephanie Athanas

Firm name	Moffatt & Nichol	Past Perfo	Past Performance Evaluation Discipline(s)*			Bridge	
Project name	Underwater Bridge Inspe	Q Master Co	Master Contract - 2023 Firm responsibility (prime or s		bility (prime or su	b?) Prime	
Project number	NA	Owner's name	Mississipp	oi Department o	of Transportatio	on	
Project location	Mississippi			Owner's Proj	ect Manager	Mississippi Depa	rtment of
						Transportation	
Owner's address, phor	ne, email P.O. Box 1850), Jackson, MS, 3921	15-1850, 601	-359-7209, nte	erry@mdot.ms.	gov	
Services commenced l	by this firm (mm/yy)	04/24	Fotal consult	ant contract co	ost (\$1,000's)		\$655
Services completed by	v this firm (mm/yy)	06/26	Cost of consu	ultant services	provided by thi	s firm (\$1,000's)	\$206

Moffatt & Nichol (M&N) is performing NBIS underwater bridge inspections statewide for a 2-year IDIQ contract with the Mississippi Department of Transportation (MDOT).

M&N's underwater inspection divers are performing Levels I, II, and III underwater inspections in accordance with the AASHTO MBE, 23 CFR Part 650C, and FHWA's Bridge Inspector's Reference Manual. The inspections are scheduled with the specified underwater bridge inspection frequency for each bridge as established per work assignment.

All underwater substructure and foundation bridge elements requiring inspection include steel, concrete, timber abutments, pilings, piers, or pier protection systems. Hydrographic surveying using sonar depicts the channel bottom along the centerline and each fascia of the bridge and any evidence of scour around substructure elements, both upstream and downstream.

The Bridge Underwater Inspection Report will include inspection findings, damage assessments and recommendations of repair by priority as per the severity of deficiencies, proportionally scaled drawings and photographs locating defects, NBIS substructure condition ratings and scour assessment as per FHWA, condition state rating as per AASHTO, results of scour, and any other items necessary to fulfill the requirements set forth in the NBIS and by the MDOT.

Key Team Members: Chace Hulon, Armando Gonzalez, Akash Chaurasia, Bryan Tyson, Chip Eschenbach, Eric Jones, Heidi Kuntz, Herodotos Pentas, Jeffrey Gazarek, Kyle Bailey

RELEVANCE TO LADOTD

- ✓ NBIS Underwater Bridge Inspection & Reporting
- ✓ NBE and BME ratings
- ✓ Hydrographic Surveying
- Retainer Contract
- ✓ Hazardous Wildlife
- ✓ TTC & Work Zone Safety
- Level III NDT
- Debris Removal



Firm name	Engineering Operations I	LLC	Past Performance Evalu	ation Discipline	(s)* Bridge	
Project name	Louisiana Department of	Transportation IDIC	Q Contract for	Firm responsib	ility (prime or sub?)	Sub
	Underwater Bridge Inspe					
Project number	4400019121	Owner's name	Louisiana Department of	of Transportation	and Development	
Project location	Statewide Louisiana		Owner's Pro	ject Manager	Haylye Brown, PE	
Owner's address, phor	ne, email 1201 Capitol A	ccess Road, Baton	Rouge, Louisiana – 225.3	79.1500 – haylye	e.brown@la.gov	
Services commenced l	by this firm (mm/yy)	08/20	Fotal consultant contract c	ost (\$1,000's)		\$6,000,000
Services completed by	this firm (mm/yy)	Present	Cost of consultant services	s provided by thi	s firm (\$1,000's)	\$1,084,000

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 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 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), project manager (Taylor White), deputy project manager (Samuel Williams), and the following inspectors/commercial divers: Kyle Rankin, Aaron Richardson, Sam Cabrera, Connor Kenney, Luis Andrion, Karl Davis (Louisiana Office employee), and Caden D'Aoust (Louisiana Office employee).

<u>Firm Experience:</u> PROJECT 7

Firm name	Engineering Operations LLC		Past Performa	nce Evaluation	Bridge	
			Discipline(s)*			
Project name	Mississippi Department of Trans	portation Un	derwater Bridge	Firm responsi	bility (prime or	r sub?) Prime
	Inspections					
Project number	PD NDIS(102)105224 111000	Owner's no	Miggigginni D	nortmont of Transp	ortation	
rioject number	DK-INDI3(103)103324-111000	Owner S ha		epartiment of fransp		
Project location	Statewide Mississippi		Owner	s Project Manager	Neal Terry, H	PE
Owner's address, phor	ne, email 401 N. West Street, Ja	ckson, Missi	ssippi – 601.278.638	6 – nterry@mdot.m	s.gov	
Services commenced	by this firm (mm/yy)	10/20 7	Fotal consultant contr	act cost (\$1,000's)		\$315,000
Services completed by	this firm (mm/yy)	06/23 0	Cost of consultant ser	vices provided by th	is firm (\$1,000	0's) \$315,000

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

Under this contract, eO performed 35 underwater inspections of bridges and culverts in Districts 01, 03, and 05. All inspections were performed by ADCI certified divers 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 submitted for client review by the end of the month following the month the inspection was performed. 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 pier details showing the locations of deterioration, 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. 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. All inspections from three to one.

Key staff members included the project principal (Benjamin Kenney), project manager (Taylor White), deputy project manager (Samuel Williams) and the following inspectors/commercial divers: Kyle Rankin, Connor Kenney, and Luis Andrion.

eO is also a prime consultant for the current contract (07/23-Present) and was assigned 86 underwater inspections in District 01 that will be completed before the end of 2024. eO's Louisiana Office, which is fully equipped to perform SCUBA and SSA dive operations for both large and small waterways, will provide most of the staff and all the equipment for the current contract.

Firm name	Engineering Operations LLC			Past Perfe	ormance Evalu	uation Discipline	e(s)* Bridge	
Project name	Arkansas Underwater Bridge Inspections				Firm responsib	oility (prime or sub?) Prime	
Project number	012387		Owner's name	Arkansas	Department of	f Transportation		
Project location	Statewide	e Arkansas			Owner's Pro	oject Manager	Kevin Weston, PE	2
Owner's address, phor	ne, email	10324 Interstat	te 30, Little Rock, A	AR 72209–5	01.569.2658 -	- kevin.weston@	ardot.gov	
Services commenced by this firm (mm/yy) 07/21			Total consultant contract cost (\$1,000's)\$		\$2,053,000			
Services completed by this firm (mm/yy) 05/24 C			Cost of cons	ultant services	s provided by thi	is firm (\$1,000's)	\$1,784,000	

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), project manager (Taylor White), deputy project manager (Samuel Williams), and the following inspectors/commercial divers: Kyle Rankin, Aaron Richardson, Sam Cabrera, Connor Kenney, Luis Andrion, Karl Davis (Louisiana Office employee), and Caden D'Aoust (Louisiana Office employee).

	I ROUBEL /					
<u>Firm</u>	Forte and Tablada,	Inc.		Past Performance Evaluation	Survey	
Experience:				Discipline(s)*		
PROJECTS						
9Firm name						
Project name	Belle Chasse Bridg	ge and Tunnel R	Replacement	Firm responsibility (prime or sub?)	Prime	
Project number	S.P. No. H.004791.	5	Owner's name	LaDOTD		
Project location	Plaquemines Parish	, LA	Owner's Project Manager	Stanley Ard		
Owner's address,	phone, email	1201 Capitol A	ccess Road, Baton Rouge, LA 7	70802, 225-379-1292, Stanley.Ard@la.	gov	
Services comment	ced by this firm	05/17	Total consultant contract cost	(\$1,000's)	\$ 401.7	
(mm/yy)						
Services complete	d by this firm	10/18	Cost of consultant services pro	ovided by this firm (\$1,000's)	\$ 249.6	
(mm/yy)						

Forte and Tablada provided comprehensive topographic surveying services for the Belle Chasse Bridge and Tunnel Replacement project for LaDOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.

The primary challenge for this project was to complete the topographic survey, while not shutting down travel on the bridge nor tunnel. In order to perform a traditional topographic survey, the feature being measured must be in physical reach of the equipment operator. Forte and Tablada was able to overcome this challenge through the use of remote sensing technology. Remote sense was used in the form of LiDAR for the bridge and overpass, and multi-beam sonar for the water bottom and top of tunnel. A robot was fabricated by Forte and Tablada staff to ride the bridge rail with the LiDAR scanner in order to avoid lane closures and improve the safety of equipment operators. This project displays Forte and Tablada's ability to use advanced technology such as lidar scanning and multibeam hydrographic equipment to conduct topographic surveys on bridge projects for LaDOTD.

Project Team:

Joey Coco, P.E., Principal-In-Charge Ross Wilson, P.L.S. Jerry Middleton, Jr., P.L.S. Brent Campbell Tommy Lake



Firm name	Forte and Tablada, In	с.			Past Performance Evaluation	Survey	
					Discipline(s)*		
Project name	LaDOTD Underwate	er Acou	ıstic Imaş	ging – Mississippi River Bridges	Firm responsibility (prime or sub?)	Sub	
Project number	H.009730.5			Owner's name	Louisiana Department of Transport	ation and	
					Development		
Project	Statewide, LA			Owner's Project Manager	Haylye Brown, PE		
location							
Owner's addres	s, phone, email	1201	Capitol A	ccess Road, Baton Rouge, Louisia	na – 225.379.1500 – haylye.brown@)la.gov	
Services commenced by this firm (mm/yy) 08/22			08/22	Total consultant contract cost (\$1,000's)		\$ 171	
Services comple	eted by this firm (mm/y	y)	09/22	Cost of consultant services provided by this firm (\$1,000's)		\$ 171	

Forte and Tablada worked with LaDOTD and Moffatt and Nichol to provide Hydrographic Surveys for the following Mississippi River Bridges:

• Rigolets Bridge,

- Crescent City Connection Bridges (East and Westbound)
- Vicksburg Bridge

The purpose of the survey is to document bridge scour, bridge piers, and other water bottom features below the waterline. The work included typical cross-sections, and water bottom features below the waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface. Limited traditional survey methods were used to collect ground data along the bank.

	Ν	North		Location	South			
200 ft	100 ft	50 ft	North Fascia	Location	South Fascia	50 ft	100 ft	200 ft
-	н.	-	-	W. Shoreline	-	-	-	-
-22.0	-22.8	-23.4	-23.7	Mid Span	-25.8	-26.8	-27.2	-30.3
-31.5	-31.4	-33.5	-59.1	Pier 4	-36.4	-41.2	-37.9	-34.0
-53.8	-57.4	-60.1	-60.9	Mid Span	-55.9	-55.4	-55.3	-53.3
-79.1	-76.5	-87.7	-92.7	Pier 3	-67.6	-69.8	-76.3	-78.5
-88.6	-85.7	-89.9	-91.6	Midspan	-93.0	-90.8	-88.7	-87.6
-16.8	-9.5	-11.5	-16.5	Pier 2	-16.1	-14.8	-12.4	-

Table 1.0 – Channel Soundings From Water Surface

Project Team: Joey Coco, P.E., Principal-In-Charge Brad Holleman, P.E., P.L.S. Brent Campbell



Firm name	Forte and Tablada, Inc.			Past Performance Evaluation Discipline(s)*	Survey	
Project name	LaDOTD Underwater Canal Hydrographic S	Acoustic Imag Survey	ging - LA 14 Over Delcambre	Firm responsibility (prime or sub?)	Sub	
Project number	H.009730.5		Owner's name	Louisiana Department of Transportation and Development		
Project location	Iberia Parish, LA		Owner's Project Manager	Haylye Brown, PE		
Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, Lo			Access Road, Baton Rouge, Lou	isiana – 225.379.1500 – haylye.brown(@la.gov	
Services commenced by this firm (mm/yy) 06/23 Total consu			Total consultant contract cost ((\$1,000's) \$ 171		
Services comple	eted by this firm (mm/yy	r) 08/23	Cost of consultant services pro	vided by this firm (\$1,000's)	\$ 171	



Project Team: Joey Coco, P.E., Principal-In-Charge Brad Holleman, P.E., P.L.S. Brent Campbell Gavin Lake Nicholas Babin Trenton Inglehart Forte and Tablada conducted a hydrographic survey as a subconsultant to Moffatt & Nichol to capture the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below the waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface. Limited traditional survey methods were used to collect ground data along the bank and around the canal.



18. <u>APPROACH AND METHODOLOGY</u>

UNDERSTANDING OF PROJECT

The Moffatt & Nichol (M&N) Project Manager and his Project Team have been continuously engaged in performing underwater bridge inspections for LaDOTD since 2014. The need to deliver a volume of timely underwater bridge inspection reports is of primary importance to this project. We intimately understand the evolving changes with the NBIS requirements, how FHWA audits can be tied to funding, and the desires for a welltrained LaDOTD bridge inspection staff.

Southern Louisiana has unique environmental challenges that are intimately understood by the seasoned M&N dive team. A decade of experience living and working under the hot sun with high humidity, dodging sudden lightning storms, and sharing the bayous with large alligators and venomous snakes has allowed this local team to solve these problems and thrive here. We have grown to love this state and we feel honored to serve as trusted consultants and advisors for the LaDOTD staff at Headquarters and for the Statewide Bridge Inspection Program.

Our talented team of certified engineer-divers have been performing underwater assessments of major infrastructure assets in the Louisiana marine environments (tannic, saltwater, brackish) for over 20 years. A deep understanding of the material sciences and their degradation modes is vital to delivering a valuable report with repair recommendations that consider the remaining service life and the selection of preservation or rehabilitation actions.

We understand how to perform multiple concurrent tasks of various sizes that may include a total of 36.4 miles of the Atchafalaya Basin Bridges, or a total of 45.6 miles of the Manchac Swamp Bridges, or any bridge over a large navigable waterways with deep foundations, or the many movable bridges throughout the state, the hundreds of off-system timber bridges, a spillway inspection, culvert inspections with an remotely operated vehicle (ROV), damage assessments, scour evaluations, or topside inspections. Additionally, we have the bench of resources that enable us to expand and/or contract resources to meet Task Order needs, in addition to being able to accommodate additional Emergency Inspection needs, such as we have experienced for several emergencies.

By selecting M&N again for the next cycle, the Department will retain a valuable local resource with vast amount of institutional knowledge, that maintains program continuity and that can be trusted to safely meet the project requirements and respond to urgent emergency response requests, such as the recent vessel allision to the Grosse Tete Bridge carrying LA 77 over the Port

Page 68 of 149 Allen Lock to assess the extent of damage and associated repair costs. M&N provides additional value as the leading Subject Matter Expert (SME) in vessel collision analyses, led by Mike Knott, and we are currently designing the pier protection system for the new Francis Scott Key Bridge as a result of the high-profile bridge collapse in the Baltimore navigation channel. Furthermore, we are serving on federal committees to assess regulation changes and provide technical updates. M&N is currently updating the **LaDOTD Bridge Inspection Manual** in accordance with recent regulatory updates; the NBIS Final Rule and the SNBI have been set in motion in 2022 and will fully take effect in 2028. The Department has been proactive in response to the federal mandate changes and we're proud to assist in solving the training and conformance challenges ahead.

M&N will continue to ensure that our work under each individual Task Order (TO) is on schedule, thorough, accurate, consistent, flexible, useful to many disciplines, and valuable to the evolving Bridge Program.



PROJECT APPROACH

M&N is committed to the LaDOTD Bridge Inspection Program. Our local staff is structured around our local Vice President of Inspection & Rehabilitation with local resources to facilitate any bridge need the Department may request. To compile the best possible teams for any task, M&N has access to an impressive Louisiana team of 62 professionals that are spread between our 5 southern Louisiana offices and our Shreveport office. Moreover, M&N has invested in a 6000sf facility in Baton Rouge to store and maintain over \$568,000 worth of diving and inspection equipment to include 3 DOT compliant work trucks outfitted for diving, 3 diving/surveying vessels between 23ft – 27ft long, and enough diving equipment to facilitate 7 separate dive systems simultaneously. This equates to 25% of our company-wide inventory of equipment all located at your doorstep and committed to your program. The Department has direct access to M&N's unmatched resources that include local equipment, local bridge inspector-divers, and local leadership for a national prioritization of resource allocation.

Team Composition and Qualifications

Chace Hulon, PE will again serve the LaDOTD as a strong Project Manager and industry leader who resides in Baton Rouge. Chace is highly certified to safely perform and properly lead underwater bridge inspections as an ADCI Dive Supervisor. As a hands-on leader, Chace will ensure a well-trained team operates under best practices and that quality improvements are identified and implemented throughout the duration of this contract.

Our deep bench of 10 experienced NBIS Underwater Inspection Team Leaders are professionals with excellent character. The Project Manager will work with Team Leaders at set intervals, demanding quality, demonstrating humility, requiring discipline, and encouraging interpersonal team dynamics to prepare for any challenge in the field.

Jeffrey Gazarek will proudly serve as the Safety Manager on this contract that he has worked on for the last 9 years as a certified Team Leader and a Dive Supervisor. Jeffrey is a member of the Board of Directors for the Association of Diving Contractors International (ADCI) and he serves as the Gulf Chapter Chairman. He is also a member of the American Society of Safety Professionals and represents M&N on the United States Gulf of Mexico Diver Safety Work Group where he served as the Chairman of the Caviblaster Safety Committee.

Heidi Kuntz, PE has 29 years as a Bridge Engineer and will serve as the Quality Manager on this contract. Heidi has performed quality control reviews for all LaDOTD contracts and is a lead SME for the LaDOTD Bridge Inspection Manual development.

Engineering Operations, LLC (DBE) has served on the Moffatt & Nichol team for this contract since their inception in 2017. They provide additional local capacity support with highly qualified engineer-divers and NHI-certified dive inspectors. Together, we're able to meet any need under this scope of work including urgent damage assessment requests.

Forte & Tablada Inc. is a well-known local firm with a great reputation for quality bridge and surveying services. They have served on our team

for 5 years to provide additional capacity for hydrographic surveys in large, navigable waterways with licensed Professional Land Surveyors.

Quality Assurance / Quality Control

Moffatt & Nichol's Heidi Kuntz, PE will develop a Quality Plan in accordance with the LaDOTD Bridge Inspection Manual, the Policy for Quality Control and Quality Assurance in BDEM Part I, Chapter 3, as well as the steps and measures in BDEM Part II Volume 5 to be followed for QA/QC of process, documentation, and reports. The Quality Plan will include the review process of all subconsultant work and deliverables. The M&N Quality Plan will be resubmitted to the LaDOTD PM within 10 business days of award notification; prior to submission, all documentation will be reviewed for completeness and accuracy. Our Quality Plan is founded on three interrelated principles: quality control, quality assurance, and quality improvement. The M&N Quality Management System is living and active and comprised of business processes designed to produce a firm-wide focus on consistent and predictable achievement of planned project results. Our local Louisiana offices are ISO 9001 certified and relentlessly engaged in improving our products, services, and business processes by assessing our business context, developing plans, and setting objectives, monitoring and measuring performance against plans and objectives, capturing and analyzing performance data, and identifying and implementing changes to enhance our performance. LaDOTD will continue to benefit from our established quality management system that includes continuous internal and external audits.

This is to certify that the management system of:

Moffatt & Nichol

Main Site: 4225 E. Conant Street, Long Beach, California, 90808, United States See appendix for additional sites and additional site scopes

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

Organization was certified by another Certification Body before 10-May-2023

The management system is applicable to:

Overall Scope: The provision of professional consulting engineering services.

Initial Certification Date: 06 December 2018
Date of Certification Decision 12 April 2024
Issuing Date: 12 April 2024
Valid Until:

Certificate Number

05 December 2024





President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.

Workflow, Schedule, and Budget

The following is the anticipated workflow schedule for a typical Task Order (TO) for underwater bridge inspection and report services, based on our successful collaboration with the LaDOTD Team:

- 1. Development of the Project Plan to include the Quality Plan which will be submitted within 10 days of the award and schedule a kickoff meeting with the LaDOTD PM.
- 2. Planning and preparation for a group of assigned structures, which includes reviewing the bridge file and previous reports in InspectX to understand material type, age, previous condition states, and access logistics for safe and efficient operations.
- 3. Schedule the bridge inspections in groups prioritizing their next inspection date, proximity (to conserve travel costs), or other time-sensitive request.
- 4. Schedule the quality control reviews for each report.
- 5. Assign a qualified team and schedule an internal kickoff meeting.
- 6. Review the need for traffic control, USCG coordination, or railroad coordination.
- 7. Prepare a comprehensive Dive Plan that includes an Activity Hazard Analysis (AHA), a Dive Operations Plan (DOP), and an Emergency Management Plan (EMP).
- 8. Mobilize personnel and equipment to complete each assignment safely and efficiently.
- 9. Safely park an adequate distance from the traveling public and set up shoulder closures as needed.
- 10. Conduct a pre-dive safety briefing at each bridge with all personnel on site.
- 11. Perform the NBIS underwater bridge inspections and collect data electronically with hardcopy backups readily available. Utilize precision tools and cleaning tools to properly determine the extent of damage at any given location. Underwater inspectors are typically responsible for Level I inspections of submerged substructure elements below the high waterline, Level II cleanings, Level III NDT measurements, underwater photographs of deficiencies recommended for repair, sketches of the site plan identifying locations of major deficiencies, and fascia and offset soundings.
- 12. Bridges with critical findings will be promptly communicated to the LaDOTD, recommendations will be provided, and potential for an indepth investigation, monitoring inspection, load rating, or repair design may be discussed.
- 13. Reassess status and available resources throughout the duration of the task to accelerate progress as necessary.
- 14. Inspection information will be synced/uploaded to the LaDOTD bridge management system (InspectX) and reviewed for accuracy and consistency

Page 70 of 149 by certified Team Leaders and Engineers prior to submittal and per the LaDOTD Bridge Inspection Manual.

15. Submit a progress report monthly to the LaDOTD PM.

Emergency Response

With three major hurricanes making landfall in Louisiana in a single season (2020), many other storms bringing significant rainfall events, and Mississippi River flood events we must be prepared for widespread underwater inspections and high-water scour assessments. M&N performed a recent emergency damage assessment on June 6th, 2024 in response to a barge allision of the main swing span at the Grosse Tete Bridge over the Port Allen Lock canal Lock to assess the extent of damage and associated repair costs on this contract. M&N has responded to a vessel allision at the Sunshine Bridge

that severely damaged the pier protection system on this contract. M&N has responded to several damage assessment requests due to overloading and severe deterioration of primary structural elements on this contract. M&N also performed multibeam bathymetry during the 2017 MS River flood to assess live scour and stability concerns of the east pier on the Vicksburg Bridge on this contract.



A scour profile of the Sunshine Bridge pier.

NBIS Underwater Inspection

M&N is the leading firm across the nation for underwater inspections and assessments with engineer-divers. We are proud to have a proven track record with high performance ratings over the last 10 years on this underwater bridge inspection contract. Diving is a specialty access method to safely perform a proper NBIS inspection of our bridges and culverts that are reported to FHWA annually. M&N has inspected over 2000 on-system and off-system bridges with submerged elements, all materials, and all bridge types in the LaDOTD inventory. The M&N team takes equal pride in our technical engineering condition assessments and our safe diving practices within our specialty access program.

Regarding the scope of work, M&N will provide quality NBIS underwater inspections that include Level I, II, and III efforts with condition ratings of structural elements, channel condition documentation and ratings, and scour evaluations utilizing various methods of hydrographic surveys supplemented by diver assessments of bottom material and undermining. The scope includes collecting soundings at the upstream and downstream fascia of the bridge as well as 25 feet upstream and downstream from the fascia. The soundings will be taken at the bent locations as well as at the mid-span if the spans are over 50 feet in length. M&N will often collect more data and more accurate data to ensure repeatability for channel comparisons over time.

Regarding our safe dive operations, M&N currently employees 34 professional engineer-divers amongst our 45 commercial divers/tenders on staff. Our ADCI-certified staff is trained and experienced with hazardous marine life, high-risk environmental conditions, and deep-water operations that require a recompression chamber on site.

As a General Member of ADCI, our team strictly follows the Association of Diving Contractors International (ADCI) Consensus Standards 6.4 edition and 29 CFR Part 1910, Subpart T – "Commercial Diving Operations."



Deliverables

The final bridge inspection reports will be submitted to the LaDOTD PM in electronic format through the new InspectX database (or current LaDOTD Management Software) in accordance with our Quality Plan. M&N has worked directly with InspectX on software development projects for underwater bridge inspections and has assisted the Department with underwater report formatting updates. We fully understand the nuances and features with InspectX that are so integral to the FHWA reporting requirements. Page 71 of 149 We have pioneered an efficient approach to Underwater Acoustic Imaging in the lower Mississippi River to obtain quality data at a much lower cost as we properly augmented UAI with diving operations and mitigated significant hazards. In addition to underwater bridge inspections, M&N is also contracted as a major subconsultant to perform complex bridge inspections of highvalue signature bridges over the Mississippi River and movable bridges over navigable waterways.

This scope task will be completed by conducting a detailed hydrographic and LiDAR survey to create sounding tables and 3D models of the bridge substructure. Multi-beam sonar and mobile LiDAR data will be collected and processed to capture underwater and above-water structures simultaneously during the operation. Key steps include defining objectives, resource allocation, risk assessment, and coordinating with the US Coast Guard to ensure compliance with regulations and safe navigation. The field data collection will use advanced equipment like the R2Sonic 2022 sonar system, Velodyne VLP-16 LiDAR sensor, and Trimble R8 GPS receivers, followed by rigorous data processing using HYPACK MBMAX64 to produce georeferenced point clouds and sounding tables.

Quality assurance involves validating data accuracy through independent measurements and compiling a detailed report with a Professional Land Surveyor signed certification letter. The final deliverables are the processed multibeam point cloud, processed LiDAR data, a sounding table, and the certification letter. This comprehensive approach and methodology ensures the project meets its objectives with high-quality, reliable results while adhering to US Coast Guard regulations for large waterways.



Scour profile

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	4400019121/H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 02	\$528,537
Moffatt & Nichol	Bridge	4400019121/H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 03	\$1,961,523
	Bridge	4400023512/H.009730.5	LADOTD Development Services for Three Primary Bridge Inspection Documents	\$206,740
Engineering	Bridge	4400019121/H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 02	\$60,138
Operations, LLC	Bridge	4400019121/H.009730.5	LaDOTD IDIQ Contract for Underwater Inspection - Task Order 03	\$250,000
· · · · · · · · · · · · · · · · · · ·	Bridge	4400021594/H.009859.5	Task Order No. 1 - Load Rate Selected Statewide Bridges	\$179,331
	Bridge, Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$52,359
	Bridge	4400021594/H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	\$5,932
	Bridge	4400021594/H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	\$562
Forte & Tablada,	Bridge	4400021594/H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	\$123
Inc.	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	\$2,254,069
	Bridge	4400021594/H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	\$94,301
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	\$180,180
	Bridge/Survey	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	\$75,443
	Bridge/Survey	4400013387/H.013137.5	OSBR Ouachita	\$23,249

1	1	1	Page 73 of 149
Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	\$3,487
Road/Bridge	4400024641/H.005734.5	LA 447 Corridor	\$190,440
CE&I/OV	4400023837/H.013090.6	Gretna Downtown Pedestrian Improvements	\$138,088
CE&I/OV	4400023837/H.009290.6	LSU Laboratory School SRTS Project	\$65,293
Survey	4400021532/H.013537.5	LA 93: Ditch Bridge	\$21,405
Survey	4400021532/H.012059.5	LA 19: Bridges near Zachary	\$53,624
Survey	4400021532/H.013195.5	LA 98 Curve Realignment	\$28,355
Survey	4400021532/H.011670.6	I-10/Loyola Interchange Improvement	\$3,070
Survey	4400021532/H.013537.5	LA 93: Ditch Bridge	\$21,405
Survey	4400021974/H.002186.5	UP (Plaquemine)	\$90,304
Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	\$83,332
Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	\$70,742
Survey	4400004128/H.004273.5	I-49 Connector	\$53,242

20. Certifications and Licenses

Staffing Chart

Staff	Title	ADCI Certified Divers	NHI 130053 / 130055	NHI 130091	ATSSA Tech or Supervisor	UAI Experience
Moffatt & Nichol						
Anderson, Colin	Scour Analysis					
Anderson, Martin	NBIS Underwater Team Leader	✓	\checkmark	\checkmark		
Athanas, Stephanie	Acoustic Imaging					✓
Baeza, Louis	NBIS Underwater Team Member	✓		\checkmark		
Bailey, Kyle	NBIS Underwater Team Member	✓	\checkmark	\checkmark	\checkmark	✓
Balzarini, Charles	NBIS Underwater Team Leader	✓	\checkmark			\checkmark
Breitenstein, Mike	NBIS Underwater Team Leader	✓	\checkmark	\checkmark		
Brock, Benjamin	Acoustic Imaging	✓	\checkmark	\checkmark		\checkmark
Chaurasia, Akash	Rehabilitation & Load Rating					✓
Eschenbach, Christopher	NBIS Underwater Team Leader and Acoustic Imaging	✓	✓			✓
Gazarek, Jeffrey	Safety Manager, NBIS Underwater Team Leader, and Acoustic Imaging	✓	\checkmark		\checkmark	✓
Gonzalez, Armando	NBIS Underwater Team Member	✓	✓			✓
Hanegan, Kevin	Scour Analysis					
Hird, Jonathan	Principal-in-charge					
Hulon, Chace	Project Manager and NBIS Underwater Team Leader	✓	\checkmark	\checkmark	\checkmark	✓
Jones, Eric	NBIS Underwater Team Member	✓	\checkmark	\checkmark	\checkmark	✓
Knott, Mike	Scour Evaluation and Vessel Collision Analysis					
Kuntz, Heidi	QA/QC Manager		\checkmark			
Leoncio, Iris	Rehabilitation & Load Rating					
Mejdrech, Isabella	Rehabilitation & Load Rating					
Pentas, Herodotos	Rehabilitation, Load Rating, Scour Evaluation, and Vessel Collision Analysis					
Spencer, Thomas	Rehabilitation & Load Rating			\checkmark		✓
Tyson, Bryan	Assistant Project Manager and NBIS Underwater Team Leader	✓	\checkmark	\checkmark	\checkmark	✓
Wise, Wade	NBIS Underwater Team Member	✓		\checkmark		✓
Engineering Opera	ations					
Andrion, Luis	ADCI Certified Diver	✓	\checkmark	\checkmark		
Cabrera, Sam	ADCI Certified Diver	✓	\checkmark	\checkmark		
Kenney, Benjamin	NBIS Underwater Team Leader and ADCI Certified Dive Supervisor	✓	✓	\checkmark		✓
Kenney, Connor	ADCI Certified Diver	✓	\checkmark	\checkmark	\checkmark	✓
Rankin, Kyle	ADCI Certified Dive Supervisor	\checkmark	\checkmark	\checkmark	\checkmark	✓
Richardson, Aaron	NBIS Underwater Team Leader and ADCI Certified Diver	✓	✓			✓
White, Taylor	NBIS Underwater Team Leader and ADCI Certified Dive Supervisor	✓	✓	\checkmark		✓
Williams, Samuel	NBIS Underwater Team Leader and ADCI Certified Dive Supervisor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Moffatt & Nichol's Certifications and Licenses

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.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. Jonathan Paul Hird	Mr. Chace Mikel Hulon	Mr. Bryan Michael Tyson	
License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	
PE.0032299 09/30/2024	PE.0039701 09/30/2025	PE.0043425 03/31/2025	
Status: Active	Status: Active	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	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mrs. Heidi Noel Kuntz	Mr. Thomas Eugene Spencer Mr. Akash Chaurasia		
License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	
PE.0048737 09/30/2024	PE.0035742 03/31/2025	PE.0048883 09/30/2024	
Status: Active	Status: Active	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	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.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. Herodotos A. Pentas	Ms. Iris Cancio Leoncio Mrs. Isabella Marzari Mejdrech		
License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	License/Certificate Type - Number Expiration Date	
PE.0024660 09/30/2024	PE.0047438 09/30/2025	PE.0048259 03/31/2026	
Status: Active	Status: Active	Status: Active	



LOUISIANA PROFESSIONAL



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

Mr. Colin Michael Anderson

International

Expires 04/06/2026

Cert. # 54102

License/Certificate Type - Number

PE.0048077

Status: Active





Date: April 23-26, 2024 Location: Sacramento, CA

Hours of Instruction: 24

andrea Hente



National Highway Institute

kansas Department of Transportation

June 15-18, 2015 Date: Location Topeka, Kansas

Instructor

Valeric Briggs, Director

National Highway Institute

Value B

Hours of Instruction: 24

BRIAN DILLORTH



2 National Highway Institute nhi highway 0 national highway National Highway Institute National Highway Institute U.S. Department of Transportation U.S. Department Certificate of Training U.S. Department of Transportation Certificate of Training Certificate of Training of Transportation Federal Highway Federal Highway Administration Bryan Tyson Bryan Tyson **Martin Anderson** has participated in has participated in FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges (SNBI) hosted b hosted by hosted by California Department of Transportation Texas Department of Transportation University of Delaware Date: January 26 - February 6, 2.015 Hours of Instruction: 67 hours Hours of Instruction: 22 Date: February 27-29, 2024 Date: August 08-19, 2016 Hours of Instruction: 67 Location: Newark, DE Location: Oakland, CA Location: Houston, TX -11-6R Thous M. Ry Onder Herke /S/ Guy Lang /S/ Austrey Zenon Stacey J. Caston Value Burr Dennis R. Baugle Local Coordinator Instructo Stacey J. Caston, Director Valerie Briggs, Director National Highway Institute ational Highway Institu Stacey J. Caston Instructor Stacey J. Caston, Director National Highway Institute nhi highway National Highway Institute 2 National Highway Institute 2 National Highway Institute NH U.S. Departmen of Transportation Certificate of Training U.S. Department of Transportation U.S. Department of Transportation Certificate of Training Certificate of Training Federal Highway deral Highway Federal Highway Christopher Eschenbach **Jeffrey Gazarek** Martin Anderson has participated in has participated in FHWA-NHI 130055 Safety Inspection of FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges **In-Service Bridges** hosted by hosted by LA DOTD/LTRC hosted by California Department of Transportation Whitman, Requardt & Associates, LLP November 26-December 07, 2018 Hours of Instruction: 67 January 4-15, 2016 Date: Hours of Instruction: 67 Date: Location: Baton Rouge, LA Sacramento, CA Date: October 6-8, 2020 Hours of Instruction: 18 Location. Location: Virtual Delivery, MD Jaguer A. March Randell Leonard PE guy R dang PE Allison H. Landry Lucal Coordinator Lake A MU age AU MacDogal, P.E. Date: 2020.10.16 1349-25-0400 Debra E. Rizzieri Valuie Bugy Value Bugy Local Coordinator Instructor Dennis R. Bouchen R.E. Finn K. Hubbard Valerie Briggs, Director Valerie Briggs, Director Thomas Harman National Highway Institute National Highway Institut Thomas Harman, Director Instructor National Highway Institute 0 2 nhi national highway National Highway Institute National Highway Institute National Highway Institute nhi highway ANH U.S. Department of Transportation U.S. Department of Transportation Certificate of Training Certificate of Training Certificate of Training Transportatio Federal Highway Federal Highway ederal Highwa **JEFFREY GAZAREK** Charles Balzarini **CHRISTOPHER A. ESCHENBACH** has participated in has participated in has Successfully Completed FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055- Safety Inspection of In-Service Bridges FHWA-NHI-130053 Bridge Inspection Refresher Training hosted by hosted by hosted by LA DOTD/LTRC Ohio Department of Transportation LA DOTD/LTRC May 12-14, 2020 Hours of Instruction: 18 Hours of Instruction: 67 Date 9 26 16 - 10 7 16 January 10-12, 2023 Hours of Instruction: 18 Date Location: Web-Conference Course Location: Columbus, OB Baton Rouge, LA Buy Rolang PE Allison H. Landrug inter A Mar ande Allison H. Landry Thomas Harman Dennis L. Barofin S.E. Value Buor

Page 79 of 149

Valerie Briggs, Director

National Highway Institute

Thomas Harman Thomas Harman, Director ional Highway Institu

Thomas Harman, Director

National Highway Institut











_CONDITIONAL APPROVAL

_____DISAPPROVAL: The employee has defects, which, in my opinion, clearly would constitute unacceptable hazards to his/her hea/th and safety in diving. _____DRUG TEST

Uunn. Physician's Signature

Printed Name

ANNETTE KENNEY, M.D. Potomac Primary Care 1400 S. Potomac Street Suite 190 AU078, CO 80012 P. 720-979-0836 F. 303-369-1919 Telephone No.

6-21-17



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Improving the performance of the transportation industry through training

National Highway Institute Unofficial Transcript

This is an unofficial transcript of the Web based Trainings (WBT) and Web Conference Trainings (WCT) in which you have enrolled. Courses that you have completed will have a completion date displayed below. For an official transcript of your records, please contact the NHI Registrar at nhiregistrar@dot.gov

Benjamin Kenney Engineering Operations 5575 S Sycamore St suite#235, Littleton, CO. 80120 BKENNEY@ENGINEERING OPERATIONS.COM

Course Name	Course Number	Course Type	Date Started	Date Completed	Pass/Lat	Score
NDL for Limber and Other Material Bridge Elements (Web- based)	FHWA-NHI-130112C	Web-Based Training (WBT)	03/12/2019	03/12/2019	Pass	17

Date Requested: 03/12/2019



National Highway Institute

Certificate of Training



NOTIONAL RIGHWAY INSTITUTE

Benjamin Kenney

has participated in

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

hosted by

Colorado Department of Transportation

Date:

Date:

Location:

July 09-12, 2013

Hours of Instruction: 21

Location: Denver, CO

Instructor Instructor

Local Coordinator

630 1 Comby

Richard Barnaby, Director National Highway Institute



J.S. Decartment Of Transportation **Federal Highway** Administration

National Highway Institute

Certificate of Training

Benjamin Kenney

has participated in FHWA-NHI-135046 Stream Stability and Scour at **Highway Bridges**

> hasted by **Avres Associates**

> > and

Navy Facilities Engineering Service Center

Hours of Instruction: 21 hours

Local Coordinate paco

Richard Barnaby, Director National Highway Institute

June 22-24, 2010

Port Hueneme, CA

Page 87 of 149

MUTCHAL HIGHAM



Federal Highway Administration

National Highway Institute Certificate of Training Benjamin Kenney

bas participated in

NHI Course 130053 "Bridge Inspection Refresher Training"

hested by

Date: since 21th three 23th 2016 Location: CHARLESTON, WY

Instructor

Instructor

Hours of Instruction: 2.4

mil Mal

Local Coordinator

Surg

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute



Certificate of Training

Benjamin C. Kenney

hasporticipated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by California Department of Transportation

Dale: Location:

January 5-8, 2021 Virtual Delivery, CA

Digitally signed by Calein A. MacDougal, R.E. Data: 2021.01.10 1046.01 -6500 Cal- A the test-

Instructor

FINK HUCCOID 2021.01.11 08.42.20 Fran Stephard -ceror

Instructor

Hours of Instruction: 18

Mohammad Popal Saeed

Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute



U.S. Department Of Transportation

Federal Highway Administration



NATIONAL HIGHWAY INST

Balt Key Solutions for Figure as ton Excellence

National Highway Institute

Certificate of Training

Ben Kenney

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher Training

hosted by

Colorado Department of Transportation

Date: Tebruary 22-25, 2011 Location: Denver, CO

David Reser, 94: Instructor topher Howard, PE

Hours of Instruction: 21 hours

Lynn Arnivedariz Local Coordinator

220.8 Ba

Richard Barnaby, Director National Highway Institute

National Highway Institute

Certificate of Training **Benjamin Kenney**

has participated in

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

hasted by

Kentucky Transportation Cabinet

Date: June 8-19. 2009

Hours of Instruction:

60.0

6200 14

Richard Barnaby, Director National Highway Institute





Moffatt & Nichol

Location: Frankfort, Kentucky

Gentel H. Jon P.E Jang PE



National Highway Institute

Certificate of Training



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

Terene M. Brown 8

Instructor

Theman Collin

Hours of Instruction: 18 hours

Local Coordinator

Joseph S. Toole Associate Administrator

Office of Professional and Corporate Development



J.S. Decartment Of Transportation **Federal Highway** Administration

Certificate of Training

Benjamin Kenney

has participated in FHWA-NHI-135046 Stream Stability and Scour at **Highway Bridges**

hasted by

Avres Associates and Navy Facilities Engineering Service Center

Date.

June 22-24, 2010 Location:

Port Hueneme, CA

Instructor

Hours of Instruction:

21 hours

Local Coordinator

Richard Barnaby, Director National Highway Institute

NATIONAL HIGHWAY INSTITUTE Academic Residence for Transmission and Terrollowers

National Highway Institute

Moffatt & Nichol



Emproving the performance of the transportation industry through training

National Highway Institute Unofficial Transcript

This is an unofficial transcript of the Web based Trainings (WBT) and Web Conference Trainings (WCT) in which you have enrolled. Courses that you have completed will have a completion date displayed below. For an official transcript of your records, please contact the NHI Registrar at nhiregistrar@dot.gov

Benjamin Kenney

Engineering Operations

5575 S Sycamore SL suite#235, Littleton, CO. 80120 BKENNEY@ENGINEERING OPERATIONS.COM

Course Name	Course Number	Course Type	Date Started	Date Completed	Pass/Latt	Score
NDL for Limber and Other Material Bridge Elements (Web- based)	FHWA-NHF130112C	Web-Based Training (WBT)	03/12/2019	03/12/2019	Pass	17

Date Requested: 03/12/2019

Engineering Operations LLC DIVING PHYSICAL FORM

Employee's Name:	BENYSAMINY	Kenney	Phone No.	(303)	514-6749
------------------	------------	--------	-----------	-------	----------

Address 7900	5.	Estes	st.	City Littleto L	State	Ċ	Zip	20158

TO THE PHYSCIAN:

Engineering Operations, LLC. employs this person as a commercial divar.

All diving personnel must undergo a thorough annual physical examination. Subsequent to the annual examination, all diving personnel must be re-examined in the event of a diving injury or serious illness.

The examining physician should interpret any physical finding on the basis of a commercial diving occupation. For example, a position as an air diver requires more extensive an examination than that required for topside personnel. With this as a frame of reterence, the applicant's cardiovascular, gestro-intestinal, genito-urinary and neuro-muscular systems should be assessed to determine if the physical exertion necessitated by the type of work planned will be harmful to the organ system in question; and if the condition of any organ system would make it difficult or impossible for the employee to carry out the planned exercise or exertion, including carrying 75 lbs of equipment up and down steep banks.

Laboratory procedures may be employed at the discretion of the examining physician depending upon the strenuousness of the anticipated diving operations. These may include: Stress electrocardiography, tests demonstrating sensitivity to oxygen and carotid sinus sensitivities, full chest film, pulmonary function tests (i.e. radiographic examination for dysbaric esteonecrosis, special blood studies and electro-encephalography).

Physician Qualifications: Preferably, the examining physician should be familiar with and experienced in the physical requirements and medical aspects of comprassed gas diving. In the absence of an examiner with knowledge of hyperbaric medicine, a physician who understands the need and purpose of the examination, and who has prior experience in examining individuals who are exposed to strenuous work conditions and hazardous environments should make the examination.

PHYSICIAN'S RECOMMENDATION

APPROVAL: I have examined the employee and have found no defects that I consider to be incompatible with diving.

CONDITIONAL APPROVAL

DISAPPROVAL: The employee has defects, which, in my opinion, clearly would constitute unacceptable hazards to his/her health and sefety in diving.

Unstations bbC.

to his/ner health and sefely in diving. Physician's Signature Printed Name

HOWARD CORREN, M.D. Potomac Primary Care Physician \$400 Ses Potomac Street Suite 190 Aurora, CO 80012 Telephone 9 9 20-979-0836 F. 303-369-1919 422/18



Certificate of Training

Joseph Taylor Whits

Attended

Basic Bridge Safety Inspection Course No. 057

Sponsored by the Highway Administration Deputate

Daries February 6 - 22, 2013

TRAFNING VARION, Infrate police Engineers, Inc.

i 2007,7500; Holfidayshurg, PA 1987,400; Oust Dusthi Noel, Frank Mayer

Contribution CREDITES** 91 (2016)

1851 SCORE 35%

Tiperny gather and

Mary Sharp Training Generopment Monuper

Aurossione Technical Training and Gevelopment Sociario Training Galendar for information on run/001 UngDBD afferings http://www.yound.state.polus//g. Students who do not solv inmoteus text receive M/A in ieu on Unori SUGO cho Yreinstraining second is meneral "Incomplete " Should you have any quastions about this sectificate on event scores, presse contact us at 712-224-675.5

"The solution of continuing education or rho (POH/CFH/CFH) on the Certificate does not mady to subtracted that the transmission opproved by the Pennsylvenia State Registration Board of Professional Engineers. However, and Subveyors: According to Pennsylvenia Act 15. "Create determination for out offerushold be depressional box respect?"

Riter, Deck militar 2030



٩			date
U. S. DEPARTMENT OF TRANSPORTATION	Релозункою ДМСки	228 Waltert Scienti, Room 508 Harrisburg, PA (7101-7720	с 1936 12975 КЯ
Federal Highway Administration	UEG 2 8 2006	in reply refer to: HBR - PA	
	Pannsylvania Basic Inspection Training Qualification	Bridge Safely g Course	
Mr. M. G. Patel, P. Chief Engineer for 1	F. Highway Administration		RTG, SMECL MTGLPA
Harrisburg, Pennsylv	vania		RIM
ATTN: Mr. Scott Chi	ristie, P.B.		DATE 11/28/26
Dear Mr. Patel: Mr. Dean Schreiber, of Depneuluseluis Pr	of your staff, had request	ted FFWA's approval	RTA. Symbol
wilh an April 13, 24 implementation of the Regulation. We are	005 letter outlining the De new National Bridge Insp new able to gualify and ar	eparlment's pection Standards	NTIALISIG
Pennsylvania's cour:	se: (1.) as "comprehensive	<pre>%/ meeting the</pre>	E-ATE

Penr intent of the NBTS and (2.) as equivalent to the National Highway Institute's Course Number 130055, "Safety Inspection of In-Service Bridges."

Pennsylvania's Basic Bridge Safety Essection Training Course takes, as its primary instructional text, the NPT "Bridge Inspector's Reference Manual." This is supplemented by a course workbook, and Pennsy'vania Dridge Management System coding accuments and inspection policy. Bridge Safely 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 FNWA as meeting the primary qualifications to inspect highway bridges and culverta and rate their NBIS condition. Official qualification will be effective for two years in Pennsylvania and will be renewed by PennKOT upon successful completion of subsequent refresher courses bailored to Pennsylvagia's bridge inventory and inspection practices.



. . . -





U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Joseph White

has participated in

NHI Course No. FHWA-NHI-135087

Scour at Highway Bridges: Concepts and Definitions (Prerequisite) WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>11/2/2019</u>

Hours of Instruction:

: 1 hours

Nichae Michael Davies, P.F. Director, National Highway Institute



National Highway Institute

U.S. Department of Transportation

Federal Highway Administration **Certificate of Training**



Joseph White

has participated in

NHI Course No. FHWA-NHI-135086

Stream Stability Factors and Concepts (Prerequisite) WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course

Date: 11/2/2019

Hours of Instruction:

1 hours

Michael h

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





U.S. Department

of Transportation Federal Highway Administration

National Highway Institute

Certificate of Training

Joseph White

has participated in

NHI Course No. FHWA-NHI-130112C

NDE for Timber and Other Material Bridge Elements (Web-base

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>8/19/2016</u>

Hours of Instruction:

Valerie Briggs, Director National Highway Institute


Administration

National Highway Institute

Certificate of Training



Joseph White

has participated in

NHI Course No. FHWA-NHI-130112B

NDE for Steel Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>1/25/2017</u>

Hours of Instruction:

5 hours

Valerie Briggs, Director National Highway Institute



National Highway Institute

U.S. Department of Transportation

Federal Highway Administration **Certificate of Training**



Joseph White

has participated in

NHI Course No. FHWA-NHI-130112A

NDE for Concrete Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

5 hours

Jalens.

Valerie Briggs, Director National Highway Institute

Date: <u>8/24/2016</u>



National Highway Institute

Certificate of Training



Joseph T. White

the participated in

FHWA-NHI-130091 Underwater Bridge Inspection

kested $\bar{v}_{\rm F}$

Naval Facilities Engineering Service Center-ECDET

Date: Location: July 12-14, 210 National Harbor, MD

Hours of Instruction: 21

instructo

Thend ? com

Local Coordinator

Richard Barnaby, Director National Highway Institute



National Highway Institute



Certificate of Training

Taylor White

has Successfidly Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Volkert, Inc.

Date: Location:

January 25-27, 2022 Tampa, FL

Instructo

Instructor

Hours of Instruction: 18

Local Coordinato

Thomas Harman

Thomas Harman, Director National Highway Institute











Association of Diving Contractors



Expires 07/15/2028

Cert. # 58043



SURFACE-SUPPLIED AIR DIVING SUPERVISOR JOSEPH T. WHITE I.D. W300-478-86-305-0 Commercial Diver Certification Card

Pouisiana Professional Engineering Dand Surveying Board

Hereby Certifies that

Mr. Samuel Ray Williams having qualified lefter this Bourd in accordance with laws is licensed as a

Professional Engineer and is hereby entitled to practice engineering in the State of Scuisiana.

Baten Reuge Louisana - 01/10/2011

Mailiamil. Ali Muspika









U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Williams

has participated in

NHI Course No. FHWA-NHI-135091

Basic Hydraulic Principles Review (WBT)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

1 hours

Date:

<u>11/9/2018</u>

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Williams

has participated in

NHI Course No. FHWA-NHI-135086

Stream Stability Factors and Concepts (Prerequisite) WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

l hours

Date: <u>11/9/2018</u>

Valerie Briggs, Director National Highway Institute

O.S. Department

of Transportation Federal Highway Administration National Highway Institute



Certificate of Training

Samuel Williams

hasparticipated in

FHWA-NHI-135047 Stream Stability and Scour at Highway Bridges for Bridge Inspectors

hosted by

Kentucky Transportation Cabinet

Date: Location:

March 12, 2019 on: Frankfort, KY

Jams A thillingen

/

Instructor

Hours of Instruction: 6

Local Coordinat

Michael hora

Michael Davies, Director National Highway Institute





Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Williams

has participated in

NHI Course No. FHWA-NHI-130112C

NDE for Timber and Other Material Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course 1/19/2017

Hours of Instruction:

4 hours

NATIONAL HIGHWAY INSTITUTE

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation Federal Highway Administration

Date:

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: Location:

Aug. 29 - Sept. 1, 2017 Charleston, WV

Hours of Instruction: 25

Sturoamill Instructor

Instructor

Local Coordinator

Valerie Briggs, Director National Highway Institute



Federal Highway Administration National Highway Institute Certificate of Training



Samuel Williams

has participated in

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

Texas Department of Transportation

Date: February 06 - 17, 2017 Location: Auslin, Texas

guy R Lang PE Instructor

Randoll Z Leorand PE Instructor

Hours of Instruction:

67 Coordinate

Valerie Briggs, Director National Highway Institute

U.S. Department of Transportation Federal Highway Administration 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: Location:

December 07-09, 2021 Topeka, KS

alla Instructor

Instructor

Hours of Instruction: 18

Questien Othinson

Thomas Harman

Thomas Harman, Director National Highway Institute

Association of Diving Contractors

International

Cert. # 61664

Expires 08/31/2025



SURFACE-SUPPLIED AIR DIVER AARON RICHARDSON I.D. 3766 Commercial Diver Certification Card



U.S. Department of Transportation

Federal Highway Administration National Highway Institute



Certificate of Training

Aaron Richardson

her participeted 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

Chr. Month

Instructor

Hours of Instruction: 25

Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute



of iransportation

Federal Highway Administration

National Highway Institute



Page 106 of 149

Certificate of Training

Aaron Richardson

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

lasted by

WSP

Date:

November 01-03, 2022 Location: Mooresville, NC

Instructor

Hours of Instruction:18

Thomas Harman

Thomas Harmon, Director National Highway Institute



National Highway Institute



Certificate of Training

Aaron Richardson

has purticipated in

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

heried by

Texas Department of Transportation

Date: February 5-16, 2018 Location: Austin, TX

Instructor

Instructor

Hours of Instruction: 67

Local Coordinator

du

Valerie Briggs, Director National Highway Institute





US Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NHI Course No FHWA-NHI-130101A

Prerequisite Assessment for Safety Inspection of In Service Bridges WEB BASED

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction: 1 hours

6/27/2016 Date:

Valerie Briggs, Director National Highway Institute



U.S. Department

of Transportation

Administration

Federal Highway

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NHI Course No. FHWA NHI 130111

Nondestructive Evaluation Fundamentals for Bridge Inspection (Webbased)

husted by

National Highway Institute

Location: Web-Based Course 6/8/2016

Date:

Hours of Instruction:

6 hours

Valerie Briggs, Director National Highway Institute



Federal Highway Administration

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NIII Course No. FIIWA-NIII-130112A

NDE for Concrete Bridge Elements (Web-based)

husted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

5 hours

Date: 6/8/2016

Valerie Briggs, Director National Highway Institute



National Highway Institute



Certificate of Training

Aaron Richardson

hasparticipated in

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

hosted by

Texas Department of Transportation

Date: Location

March 22-24, 2022 Mesquite, TX

Instructor

natri etor

Hours of Instruction:18

Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute



Federal Highway Administration

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NHI Course No. FHWA-NHI-130112B

NDL for Steel Bridge Llements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

5 hours

Date: 6/9/2016

Valeric Briggs, Director National Highway institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NHI Course No. FHWA NHI 130112C

NDE for Timber and Other Material Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

4 hours

Date:

6/9/2016

allow

Valene Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Aaron Richardson

has participated in

NHI Course No FHWA-NHI-135091

Basic Hydraulic Principles Review (WBT)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

1 hours

6/27/2016 Dale:

La De lie

Valenie Briggs, Director National Highway Institute









Certified Bridge Inspector

Whereas <u>Aaron Richardson</u> has shown competency and fitness to conduct bridge inspection as set forth in the National Bridge Inspection Standards and Florida Statute 335.074 Bridge Inspection Standards,

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of

Transportation hereby issues this certificate numbered <u>00576</u> as provided by law and object to the powers or revocation vested in said Department on this <u>10th</u> day of <u>April 2018</u>, A.D.

Lannan BRIDGE MANAGEMENT INSPECTION ENGINEER

they a. Poulatte

STATE STRUCTURES MAINTENANCE ENGINEER



Heartsaver® First Aid CPR AED



Aaron Flichardson

has successfully completed the cognitive and skills evaluations in accordance with the curriculum of the American Heart Association Heartsaver First Aid CPR AED Program. Optional modules completed:

Issue Date

1/16/2023

Training Center Name Aims Community College

Training Center ID CO20212

Training Center City, State Windson, CO

Training Center Phone Number

(970) 893-9835

Renew By

Instructor Name

Steven Rogers

Instructor ID 10200900666

eGard Gode

235013100777

QR Code



to vew or verty subjected, students and employers should scan this UH code with their mode device or go to www.neart.org/op/mycards. Cl 2021 American Head Association, Altrights reserved, 30-3002, 1/2 (

	DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
69.63	KYLE ROBERT RANKIN
20	V ADDRESS 6455 APPLE ST SAINT CLOUD FL 34771-9469
16 10	
	VI NATIONALITY USA SEX HEIGHT WEIGHT HAIR EYES Va D.O.B. 7 MAR 1991 M 70 200 BROWN HAZEL IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF IX REMOTE PILOT
, Her	CERTIFICATE NUMBER 3934348
22	X DATE OF ISSUE 4 NOV 2016
18	
100	

Association of Diving Contractors



Cert. # 58042

Expires 06/26/2028



SURFACE-SUPPLIED AIR DIVING SUPERVISOR KYLE R. RANKIN I.D. FL-R625-616-91-087-0 Commercial Diver Certification Card















Administration

National Highway Institute

Certificate of Training



Kyle Rankin, CBI

has participated in

Bridge Inspection Refresher Training

hosted by

Collins Engineers, Inc.

Date: Location:

February 19-21, 2019 Denver, CO

tille Mit Ingla

Instructor

Hours of Instruction: 18

Dwg Local Coordinator

Muchael Michael Davies, Director National Highway Institute



Federal Highway Administration National Highway Institute



Certificate of Training

Kyle Rankin

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Whitman, Requardt & Associates, LLP

Date: Location:

March 29-April 1, 2022 Richmond, VA

Instructor ny

Instructor

1

25

Hours of Instruction:

Thomas Harman Thomas Harman, Director National Highway Institute



National Highway Institute

Certificate of Training

Kyle R. Rankin

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

husted by

Naval Facilities Engineering Service Center-ECDET

Date: July Location: Nati

July 12-14, 210 National Harbor, MD

Hours of Instruction: 21

Instructor Instructor

Local Coordinator

Richard Barnaby, Director National Highway Institute



National Highway Institute

Certificate of Training

Kyle Rankin

has participated in

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

> hossied by Georgia Department of Transportation

Date: April 8 – 19, 2013 Location: Atlanta, Georgia

Instructor

Poon Dardner PE Instructor

Hours of Instruction: 67

White Cr. Amith Local Coordinator

Richard J. Barnaby, Director National Highway Institute





Federal Highway Administration **National Highway Institute**

Certificate of Training

Kyle Rankin

has participated in

NHI Course No. FHWA-NHI-130111

Nondestructive Evaluation Fundamentals for Bridge Inspection (Web-

based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>9/1/2016</u>

Hours of Instruction: 6 hours

Valerie Briggs

Valerie Briggs, Director National Highway Institute



of Transportation

Administration

Federal Highway

National Highway Institute

Certificate of Training



NATIONAL HIGHWAY INSTITUTE

'reining Scilutions for Transportation Excellence

Kyle Rankin

has participated in NHI Course No. FHWA-NHI-130112A

NDE for Concrete Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction: 5 hours

Date: <u>8/19/2016</u>

2

Valerie Briggs, Director National Highway Institute



National Highway Institute Certificate of Training



Kyle Rankin

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Hours of Instruction: 14 hours

Date: 2/27/2013

Location: Web-Based Course

Richard J. Barnaby, Director National Highway Institute



U.S.Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Kyle Rankin

has participated in NHI Course No. FHWA-NHI-130112B

NDE for Steel Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course 9/8/2016

Date:

Hours of Instruction:

5 hours

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Kyle Rankin

has participated in

NHI Course No. FHWA-NHI-130112C

NDE for Timber and Other Material Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>8/19/2016</u>

Hours of Instruction:

4 hours

Valerie Briggs, Director National Highway Institute









	eTraining, Inc.	
	Certificate of Completion	
	This certifies that	
kyle rankin		
has received training for successfully completing		
OSHA Permit-Required Confined Space Entry		
OSHA 29 CFR 1910.146		
	November 12, 2013 Certificate Number: 31723	
www.etraintoday.com		
Viello Niall O'Malle	Jele Jony A. Baylor Latry A. Baylor Development	



Association of Diving Contractors



International

Cert. # 66306

Expires 06/30/2028



SURFACE-SUPPLIED AIR DIVER LUIS ANDRION I.D. 0099 Commercial Diver Certification Card





National Highway Institute



Certificate of Training

Luis Andrion

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by MP Engineers, P.C.

Date: October 11-14, 2021 Location: Princeton, NJ

Instruct

Instructor

Hours of Instruction: 24

matel Local Coordinator Mahendra Patel, P.E.

Thomas Harman

Thomas Harman, Director National Highway Institute









National Highway Institute



Certificate of Training

Connor Kenney

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

Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute

Instructor amer a Audy Instructor

Willin & Stander PE



Valerie Briggs, Director National Highway Institute



National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

Certificate of Training



Connor Kenney

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction: 14 hours

Date: 5/17/2018

Valerie Briggs, Director National Highway Institute


U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Connor Kenney

has participated in

NHI Course No. FHWA-NHI-130111

Nondestructive Evaluation Fundamentals for Bridge Inspection (Webbased)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>6/7/2018</u>

Decis Bino

Hours of Instruction:

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway Administration National Highway Institute

Certificate of Training



Connor Kenney

has participated in

NHI Course No. FHWA-NHI-130112A

NDE for Concrete Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

5 hours

6 hours

Date: 10/6/2018

Valerie Burgos

Valerie Briggs, Director National Highway Institute



of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Connor Kenney

has participated in

NHI Course No. FHWA-NHI-130112B

NDE for Steel Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

5 hours

Date: 10/6/2018

Valerie Briggs, Director National Highway Institute



U.S. Department of Transportation

Federal Highway

Administration

National Highway Institute

Certificate of Training



Connor Kenney

has participated in

NHI Course No. FHWA-NHI-130112C

NDE for Timber and Other Material Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Hours of Instruction:

4 hours

Date:

7/11/2018

Valerie Briggs, Director National Highway Institute



IN RECOGNITION OF SUCCESSFUL COMPLETION IN: CPR / AED / First-Aid (Adult / Child / Infant / Choking) AED / Injury & Universal Precautions

THIS CERTIFICATE IS PROUDLY PRESENTED TO:

Connor Kenney

The above mentioned Student is now certified in the above mentioned course by demonstrating proficiency in the subject by passing the examination in accordance with the Terms & Conditions of National CPR Foundation - Valid for 2 years. Course administered in accordance with the **2015** ECC/ILCOR and AHA® guidelines. ID#:**81D32**



COURSE PROVIDED BY: IntionalCPRFoundation Completion: March 16, 2020 Instructor: Paul J. Scruton

Signature:

Certificate of Completion

This is to certify that

Connor Kenney

Has been trained, evaluated and successfully completed

Adult CPR, AED and First Aid

In Accordance with American Heart Association (AHA) guidelines.

1/16/2023

Course Completion Date

Steven Rogers. Instructor

SPARTAN SAFETY LLC





Moffatt & Nichol







HEARTSAVER

Heartsaver[®] First Aid CPR AED



Connor Kenney

has successfully completed the cognitive and skills evaluations in accordance with the curriculum of the American Heart Association Heartsever First Aid CPR AED Program. Optional modules completed:





2024-01-25

This letter is to verify that Connor Kenney (Number: #1494350) has successfully completed the course requirements for:

Oxygen Administration

On: 2024-01-17

The Instructor was Steven Rogers, Member, #31751 at the location. Orange City, FL.

lf you have any questione, please contact World HC at +1-207-729-4301 or +1-888-778-5073 or by e-mail at worldhq@tdiedl.com

Thenk you,

First Response Training International International Training www.firstreaponee-ad.com





HAVE MEDICAL, LLC + 3966 5 WADWORTH BLVD, LITTLETON CO. 86123 (424)

KENNEY, CONNOR (id #1507, dob: 09/14/1986)

Durable Medical Equipment Order

04/24/2020

Prescriber	Supplier
JEANNE M. HALL, MD S. WADSWORTH 5066 S WADSWORTH BLYD SUITE 103 LITTLETON, CO 80123-1254	Phone: Fax:
Phone: (303) 904-0976 Fax: (303) 948-5318	

Patient Information

Patient Name	KENNEY, CONNOR
Sex - DOB - Age	M 09/14/1986 33yo
Address	955 JOE STREET/APT B ORANGE CITY, FL 32763
Phone	H: (720) 629-9276 M: (720) 629-9276
Primary Insurance	
Secondary Insurance	

DME Order information

Applicable Diagnoses and Order	Orders included: 1 Administrative reason for encounter ICD-10; Z02,89: Encounter for other administrative examinations • OXYGEN AND EQUIPMENT			
	Use as directed. Q(y: 1 Unit Refills: 0 DAW:N Supplier: N/A			
Supply	OXYGEN AND EQUIPMENT			
Quantity	1			
SIG	Use as directed.			
Refills Allowed				
DAW?	N			
Note to Supplier				

Electronically Signed by: JEANNE M. HALL, MD

Electronically ordered/documented by: JEANNE M. HALL, MD

NPI # 1588625511

Prescription is void if more than one (1) prescription is written per blank.



of Transportation Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Cabrera

has participated in

NHI Course No. FHWA-NHI-130111

Nondestructive Evaluation Fundamentals for Bridge Inspection (Webbased)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>6/2/2020</u>

Hours of Instruction:

6 hours

Icchael Michael Davies, P.F.

Director, National Highway Institute

National Highway Institute

U.S. Department of Transportation

Federal Highway Administration **Certificate of Training**



Samuel Cabrera

has participated in

NHI Course No. FHWA-NHI-130112A

NDE for Concrete Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>6/4/2020</u>

Hours of Instruction:

5 hours

Michael h Michael Davies, P.E.

Director, National Highway Institute



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Cabrera

has participated in

NHI Course No. FHWA-NHI-130112B

NDE for Steel Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>6/5/2020</u>

Hours of Instruction:

5 hours

Michael

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



U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training



Samuel Cabrera

has participated in

NHI Course No. FHWA-NHI-130112C

NDE for Timber and Other Material Bridge Elements (Web-based)

hosted by

National Highway Institute

Location: Web-Based Course

Date: <u>6/5/2020</u>

Hours of Instruction:

4 hours

Michael Michael Davies. P.E.

Director, National Highway Institute



National Highway Institute

Certificate of Training



Samuel Cabrera

has Successfully Completed

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

hosted by

Colorado Department of Transportation

Date: Location:

May 9-12, 2023 Denver, CO

Hours of Instructions: 25

Instructor

Instructor Comp Sht Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Acting Director National Highway Institute

national

highway institute



Certificate of Training

National Highway Institute

Samuel Cabrera

has Successfully Completed

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

hosted by

Colorado Department of Transportation

July 18-29, 2022 Date: Location: Denver, CO

Enthal James a Sunday Instructor

Instructor

Hours of Instruction: 67

Local Coordinator

Thomas Harman Thomas Harman, Director National Highway Institute



Instructor

Instructor

Local Coordinator

Stacey J. Caston Stacey J. Caston, Acting Director National Highway Institute

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U.S. Department

of Transportation Federal Highway Administration

U.S. Department of Transportation Federal Highway

Administration

National Highway Institute



Certificate of Training

Samuel Cabrera

hasparticipated in

FHWA-NHI-130091 Underwater Bridge Inspection

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











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

Forte and Tablada, LLC.'s Certifications/Licenses



ATSS

21. QA/QC Plan:

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

22. <u>Sub-consultant information:</u>

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. Highway 190 Lacombe, LA 70445	Samuel Williams, PE swilliams@eopsco.com	(985) 276-7803
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr., P.E. jcoco@forteandtablada.com	(225) 927-9321

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.



Contact:

Chace Hulon, PE Moffatt & Nichol 301 Main Street, Suite 800 Baton Rouge, LA 70801 Tel: (225) 610-1932 Email: chulon@moffattnichol.com

moffattnichol.com

