### PROPOSAL

Produced for Louisiana Department of Transportation and Development (DOTD) January 2023



# **IDIQ CONTRACT FOR BRIDGE LOAD RATING, STATEWIDE**

Contract No. 4400025865





## **DOTD FORM: 24-102**

#### PROPOSAL TO PROVIDE CONSULTANT SERVICES

1.	Contract title as shown in the advertisement	IDIQ CONTRACT FOR BRIDGE LOAD RATING
2.	Contract number(s) as shown in the advertisement	CONTRACT NO. 4400025865
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana	Moffatt & Nichol
	Secretary of State where such registration is required by law)	
5.	Prime consultant license number (as registered with the	EF.0003104
	Louisiana Professional Engineering and Land Surveying	
	Board (LAPELS) if registration is required under Louisiana	
	law)	
6.	Prime consultant mailing address	301 Main Street, Suite 800
		Baton Rouge, LA 70801
7.	Prime consultant physical address (existing or to be	301 Main Street, Suite 800
	established, if location is used as an evaluation criteria)	Baton Rouge, LA 70801
8.	Name, title, phone number, and email address of prime	Herodotos Pentas, PhD, PE – Project Manager
	consultant's contract point of contact	(225) 610-1597
		hpentas@moffattnichol.com
9.	Name, title, phone number, and email address of the official	Jonathan Hird, PE – Vice President
	with signing authority for this proposal	(225) 610-1930
		jhird@moffattnichol.com
10.	This is to certify that all information contained herein is	
	accurate and true, and that the team presently has sufficient	
	staff to perform these services within the designated time	
	frame. By submitting this proposal, proposer certifies that it	
	is not engaged in a boycott of Israel, and it will, for the	
	duration of its contract obligations, refrain from a boycott of	
	Israel. Proposer also certifies and agrees that the following	
	information is correct: In preparing its response, the	
	proposer has considered all proposals submitted from	
	qualified, potential subcontractors and suppliers, and has not,	
	in the solicitation, selection, or commercial treatment of any	
	subcontractor or supplier, refused to transact or terminated	
	business activities, or taken other actions intended to limit	



commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9): Date: January 11, 2023
11. If a Disadvantaged Business Enterprise (DBE) goal has been	Firm(s): Firm(s)' %:
set for this advertisement, indicate which firm(s) will be	Traffic Commander, LLC 2%
used to meet the DBE goal and each firm(s)' percentage.	



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

Evaluation Discipline(s)	% of Overall Contract	Prime	Firm B	Firm C	Firm D	Each			
		Moffatt &	Huval and	Garver,	Traffic	Discipline			
		Nichol	Associates,	LLC	Commander, LLC	must total to			
			Inc.		(DBE)	100%			
Bridge	70%	45	12	43	0	100%			
Data Collection	30%	93	0	0	7	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%	59.4	8.4	30.1	2.1	100%			



#### 13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Moffatt & Nichol	Principal	1	25
	Accountant	1	10
	Administrative	1	15
	CADD Operator	1	75
	Engineer (LA PE)	4	28
	Engineer – Other	3	50
	Inspector – Bridge	6	50
	Engineering Intern	1	30
	Senior Technician	3	14
	Supervisor – Engineer	3	8
Huval and Associates, Inc.	Principal	0	1
	Supervisor Engineer	1	5
	Engineer	3	14
	Engineer Intern	2	6
	Technician	0	2
	CADD Technician	1	3
	CADD Drafter	1	4
	Inspector – Bridge	1	6
Garver, LLC	Inspector – Bridge	1	4
	Engineer	2	2
	Engineer – Other	4	8
Traffic Commander, LLC (DBE)	Other (Traffic Control Services)	4	12



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14. Organizational Chart:



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

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Jonathan Hird, PE	Moffatt & Nichol	PE / 32299	LA	09/30/2024
2	Chace Hulon, PE	Moffatt & Nichol	PE / 39701	LA	09/30/2024
3	Herodotos Pentas, PhD, PE	Moffatt & Nichol	PE / 24660	LA	09/30/2024
4	Iris Leoncio, PE	Moffatt & Nichol	PE / 47438	LA	09/30/2023
4	Frank (Blake) Blakemore, PE	Garver, LLC	PE / 37368	LA	03/31/2023
	Eric Vugteveen, PE	Moffatt & Nichol	PE / 38667	LA	09/30/2024
5	Colby Guidry, PE	Huval and Associates, Inc.	PE / 31338	LA	09/30/2024
	Nick Altobelli, PE	Garver, LLC	PE / 45605	LA	09/30/2023

(Add rows as needed)

Firm employed by	Moffatt & Nichol							
Name Herodot	os Pentas, PhD, PE			Years of relevant experience with this employer 1<				
Title Senior B	ridge Engineer			Years of relevant experience with other employer(s)	32			
Degree(s) / Years / Specialization				PhD / 1990 / Civil Engineering				
				MS / 1985 / Civil Engineering				
				BS / 1984 / Civil Engineering				
Active registration number / state / expiration date				essional Engineer: 24660 / Louisiana / 09/30/2024				
			FHW	A-NHI-130092 Load and Resistance Factor Rating of Highway Bi	ridges			
			FHW	A-NHI-130056 Safety Inspection of In-Service Bridges for Profes	sional			
			Engi	neers				
		1	FHW	A-NHI-135099 Bridge Inspection Non-Destructive Evaluation Sho	owcase			
Year registered	1992	Discipline	Civil	and Structural				
Contract role(s) / b	orief description of respo	onsibilities	Proj	ect Manager / Analysis & Load Rating/ MPR #3				
Experience dates	Experience and quality	fications relevan	t to the	e proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "	designed			
(mm/yy-mm/yy) intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				over the time specified in the applicable MPR(s).				
01/07 – 12/07 West Drive & Lock #2 Road Bridges Inspection & Load Analysis, St. Tammany Parish, Louisiana. Project Man								
	for inspection, load a	nalysis, and ratir	ng of ti	mber bridge and concrete bridges by applying AASHTO and LAD	OTD			
	Standards.							
08/97 - 06/99	LADOTD S.P. No. 7	37-99-0441 & 7	37-99-	-0158, Assessment of Bridge Damage by Watercraft, Divisions 2	2, 3, & 7,			
	Louisiana. Project M	lanager for basel	ine ins	pections of fender systems/substructures of 134 bridges to determine	ne damages			
	caused by marine ves	sels. Provided da	amage	assessment, repair plan preparation, cost estimates, repair procedur	e, & report.			
	Project received nation	onal attention due	e to its	effectiveness & execution.				
01/96 - 12/96	LADOTD S.P. No. 7	'00-99-0118, Str	uctura	al Load Rating, 118 Bridge, Louisiana. Project Manager for load	rating of			
	118 bridges througho	ut the state. A m	ajority	of the bridges were prestressed concrete and steel plate girder desi	gn.			
02/96 - 11/96	LADOTD S.P. No. 7	00-99-0264, Ba	rs Re-	Rate, Louisiana. Project Manager for conversion of all existing BA	ARS load			
	rating WSM and LFN	A files to VIRTE	S datab	base and running of converted BARS files to verify VIRTIS rating i	cesults for			
	493 structures. Analy	zed with finite e	lement	t method, three structures for three super-load permit vehicles and	1			
	recommended distrib	ution factor, infl	uence	line, permit load review procedure, and examples for typical compl	ex members			
10/02 10/05	(truss span, steel & p	restressed girder	, steel a	and reinforced concrete cap beam.				
10/93 - 10/95	LADOID S.P. No. 7	(00-30-0002, Co	mplex	Structures Load Rating, 37 Bridges, Louisiana. Project Manage	r, led			
	analysis and rating of	3 / complex stee	el and	concrete bridges using both working stress and load factor methods	Structure			
	types included simple	e and multi-span	steel c	surved plate girders, simple and multi-span normal and skewed box	girders, and			
02/02 12/02	curve box girders.	50 02 0012 01		he Bridge Design I entitione Braint Frankright for and	ا شروا			
03/93 - 12/93	LADUID S.P. No. 3	<b>57-02-0012</b> , Cle	tar La	a five gran continuous unit utilizing A A SUTO Type IV access and	u linal			
	design for LA 1226 b	orted by 20 in all	Lake,	a nive-span commuous unit utilizing AASHTO Type IV precast proton community bents	estressed			
	concrete girders supported by 30-inch-diameter concrete pile bents.							

Firm employed by Moffatt & Nichol							
Name Jonathan	Hird, PE		Years of relevant experience with this employer	16			
Title Vice Pres	ident		Years of relevant experience with other employer(s)	8			
Degree(s) / Years /	Specialization	MS /	2001 / Civil and Environmental Engineering				
	•	BS /	BS / 1993 / Environmental Science				
Active registration	number / state / expiration date	3229	9 / Louisiana / 09/30/2024				
Year registered Discipline			l Engineering				
Contract role(s) / brief description of responsibilities			cipal-in-Charge / MPR #1				
Experience dates	Experience and qualifications relevant	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	"designed			
(mm/yy-mm/yy) intersection", etc. Experience dates sh			cover the time specified in the applicable MPR(s).				
03/20 - present	LADOTD IDIQ for In-Depth Inspective bridge inspections on complex and more performing complete in-depth structure cable-stayed bridges, movable swing st	ction ovable cal, me span b	of Complex Bridges, Statewide, Louisiana. Principal-in-Charge f bridges throughout Louisiana. As a major subconsultant, Moffatt dechanical, and electrical inspections. Bridge types include cantileve ridges, and bascule bridges.	for in-depth & Nichol is er trusses,			
08/15 - 08/19	LADOTD Statewide Truss Sign Ins perform approximately 1,700 overhea inspections include steel and aluminum accordance with FHWA guidelines. T mag particle testing on steel welded co	d sign d sign m wel eam p	<b>on, Louisiana.</b> Principal-in-Charge for the current five-year retained truss inspections (routine and interim) throughout Louisiana. Anci ds, high stress moment connections, and fracture critical elements in erformed Level III inspections with ultrasonic testing on bolted con- tions, and dye penetrant testing on aluminum-welded connections.	r contract to illary in nnections,			
01/14 - 08/19       LADOTD Underwater Bridge Inspections, Louisiana. Principal-in-Charge for the previous and current five-year retainer contracts to perform underwater bridge inspections statewide, including Level I, II, and III inspections of submerged elements in accordance with state and federal requirements. Assisted with several emergency response requirements in accordance to urgent (<24-hour response time) to urgent (<1-week response time). Monitored the progress of invariance and undertained proceedings.							
02/16 - 08/19LADOTD RSIS Railroad Inventory Upgrade Statewide, Louisiana. Assistant Project Manager, Client Services Manager, and Local Project Liaison for the effort to provide Web-based crossing safety inventory service (RIMS) for LADOTD to perform a comprehensive evaluation of LADOTD RSIS data and FRA inventory data for Louisiana railro Program provides suggestions to modify state RSIS data to comply with the latest Federal Railroad Administration (FI requirements, implement changes, and incorporate FRA with LADOTD data into a Web-based system.							
11/15 - 08/16	I of the Master Plan performed a strate and local conditions for industry need	evelopegic, pegic, p	pment Phase 1, New Orleans, Louisiana. Project Manager for the predictive analysis of the market – looking at global, national, regio projections.	2016 Phase onal, state,			

Firm employed by	Firm employed by Moffatt & Nichol							
Name         Chace Hulon, PE				Years of relevant experience with this employer	8			
Title Chief Br	idge Inspector			Years of relevant experience with other employer(s)	9			
Degree(s) / Years	Specialization		BS /	2005 / Civil Engineering				
Active registration number / state / expiration date				essional Engineer: 39701 / Louisiana / 09/30/2023				
			FHW	A-NHI-130053 Bridge Inspection Refresher Training				
			FHW	FHWA-NHI-130055 Safety Inspection of In-Service Bridges				
				A-NHI-130078 Fracture Critical Inspection Techniques for Steel B	ridges			
				A-NHI-130091B Underwater Bridge Repair, Rehabilitation and				
			Coun	termeasures				
			FHW	A-NHI-133113 Work Zone Traffic Control for Maintenance Opera	tions			
			FHW	A-NHI-135047 Stream Stability and Scour at Highway Bridges for	Bridge			
			FUW	VIOIS				
			FHW	A-NHI-135080 Stream Statinty Factors and Concepts	ons			
Year registered	2009	Discipline	Civil		115			
Contract role(s) / brief description of responsibilities				& Document Retrieval & Review / Site Visits / MPR #2				
Experience dates	Experience and quali	fications relevan	t to the	proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed girders"	designed			
(mm/yy–mm/yy)	intersection", etc. Ex	perience dates sh	nould c	over the time specified in the applicable MPR(s).	C			
11/19 – Present	LADOTD IDIQ for	<b>In-Depth Inspe</b>	ction o	of Complex Bridges, Statewide, Louisiana. Project Manager and T	Team			
	Leader to perform in-	-depth bridge ins	pection	ns on complex, signature, long-span bridges. Performed the inspecti	ons of both			
	cable-stayed bridges	(Audubon and L	uling)	with rope access techniques to inspect 208 cables between the two l	oridges,			
	their Gensui Damper	s, and anchorage	s. Perf	ormed the inspection of I-10 Horace Wilkinson Bridge utilizing rop	e access			
	techniques and rollin	g lane closures to	o great	ly minimize traffic impacts. Performed a supplemental inspection of	f the GNO			
	Cantilever Truss Brid	lges in New Orle	eans ut	lizing rope access techniques. Performed a fracture critical inspecti	on of the			
	Green Bridge, a steel	tied arch in New	v Orlea	ns utilizing rope access and UAS access techniques. Performed the	inspection			
	of the I-10 Bridge ov	er the Calcasieu	Kiver i	in Lake Charles utilizing rope access on FCM's and UAS access tec	hniques on			
	for digital twin mode	arone with Droi	nagem	oy and 5D Scan was used to capture an orthomosaic projection of the	and success			
	of this project	15. 11anus-011 Illa	nagem	ent and implementation of the QC review plan is vital to the continu	ieu success			
01/20 - Present	LADOTD IDIO for	In-Denth Bridg	e Insn	ection of Complex Structures, Statewide, Louisiana, Project Ma	nager and			
	Team Leader perform in-depth bridge inspections on complex movable long-span and precast segmental box girder							
	bridges. Performed structural, mechanical, and electrical inspections of six (6) movable bridges utilizing detailed							
	nondestructive, and l	aboratory testing	metho	ds with hand sketches. Utilized NDE methods (laser and acoustic)	to analyze			
	the rotational movem	ent of an unstabl	le pivo	t pier. Hands-on management and implementation of the QC review	v plan is			
	vital to the continued	success of this p	project.		-			



09/22 - Present	OSARC Statewide Timber and Complex Bridge Inspections, Load Ratings and On-Call Services, Mississippi.
	Project Manager and Team Leader to perform repair design inspections for load ratings on 8 bridges on first task order and
	3 load ratings were performed on AASHTOWare BrR for the second task order.
09/14 - Present	LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. Project Director and Team Leader for the
	third cycle of contracts in which we've performed 1,375 underwater NBIS bridge inspections statewide. In-depth UWI
	were performed on 75 signature bridges over large waterways with deep foundations and dynamic channel conditions. All
	diving inspections were augmented with NDE acoustic imaging technology to consistently monitor streambed changes and
	structural deficiencies over subsequent inspection cycles. Acoustic hydrographic surveying methods were performed using
	the HydroLite-TM, Kongsberg Mesotech MS 1000, and the Norbit Winghead i77 units deployed from a vessel. QINSy,
	Qimera, Applanix POSPac, MMS systems, and MatLab were used for accurate and repeatable post processing and
	evaluations. Assisted LADOTD with several emergency response requests ranging from hours to days, utilizing local team
	members. Served as Chief Editor of the LADOTD Bridge Inspection Manual released in 2020.

Firm employed by Moffatt & Nichol								
Name Eric Vug	steveen, PE			Years of relevant experience with this employer	24			
Title Bridge En	ngineer			Years of relevant experience with other employer(s)	8			
Degree(s) / Years /	Specialization		BS /	1990 / Civil Engineering				
	•		BS /	1990 / Architectural Engineering				
Active registration	number / state / expirat	ion date	Profe	Professional Engineer: 33711 / Virginia / 04/30/2023				
			FHW	A-NHI-130055 Safety Inspection of In-Service Bridges				
			FHW	A-NHI-130053 Bridge Inspection Refresher Training				
			FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel E	Bridges			
Year registered	1999	Discipline	Civil					
Contract role(s) / b	rief description of respo	onsibilities	Plan	& Document Retrieval & Review / Site Visits / MPR #5				
Experience dates	Experience and quali	fications relevan	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	designed			
(mm/yy-mm/yy) intersection", etc. Experience dates sho				over the time specified in the applicable MPR(s).				
12/18 - 10/20	VDOT Term Contra	on of Highway Structures Statewide, Virginia. Project manager	for 20 task					
	orders for routine, un	derwater and em	cy safety inspections on a statewide basis. Team leader for 17 bridge	es in the				
	Richmond District in	cluding numerou	ıs bridg	ges over interstate highways with complex maintenance of traffic re	quirements			
	and nighttime inspect	tions. The 20 tas	k ordei	rs included 57 structure inspections, including 7 emergency underw	ater			
	inspections following	g localized flood	ing of S	Swift Creek in Chesterfield County. Performed field inspections inc	luding			
	National and State el	ement level quar	ntities a	and condition states, inspection reports with repair recommendation	s,			
	developed revised ch	annel sketches, v	verified	I Structure Inventory and Appraisal data and reviewed reports devel	loped by			
00/15 00/10	team leaders and insp	bectors.						
03/15 - 03/18	VDOT Limited Serv	vices Term Con	tracts	for Providing Load Ratings of Existing Highway Structures Sta	itewide,			
	Virginia. Bridge eng	ineer for load ra	ting tas	sks using AASHTOWare's Bridge Rating program and STAAD.Pro	) finite			
	element analysis soft	ware, in accorda	nce wi	th LRFR and LFR methodologies. Responsible as a rater or checker	tor load			
	ratings of over 60 bri	dges, including s	superst	ructure types consisting of cast-in-place and precast concrete arches	sand			
04/15 02/16	frames, RC slabs and	tee beams, steel	beams	s with timber and concrete decks, and curved steel plate girders.				
04/15 - 03/16	HDOT General Stru	uctural Enginee	ring S	ervices, Oanu, Hawaii. Bridge engineer for load ratings tasks of va	irious			
	Transmostation Design	cordance with t		SHIO Manual for Bridge Evaluation as amended in the Hawan De	partment of			
	methodology using the	DE DE ASS CIDI	TUBES a	find Structures. Load failings were performed in accordance with LK	ГK			
03/12 03/15	VDOT Limited Som	vios Torm Con	tracts	ntwate program. for Droviding Load Datings of Existing Highway Structures Sta	towido			
03/12 - 03/13	Virginia Bridge eng	ineer for bridge	load ra	tings tasks using AASHTOWare's Bridge Bating program (former)	v Virtis) in			
	accordance with I RF	R and I FR met	hodolo	gies Responsible as a rater or checker for load ratings of over 1001	y vinus/iii			
	including superstruct	ure types consist	ing of	RC slabs and tee beams PS beams and voided slabs steel beams w	vith timber			
	and concrete decks s	teel nlate girder	ang or and e	teel floorbeam systems				
	and concrete decks, s	teel plate girders	s, and s	teel floorbeam systems.				

Firm employed by Moffatt & Nichol								
Name Mike Ru	ssell, EIT			Years of relevant experience with this employer	1			
Title Specialty	Access Manager			Years of relevant experience with other employer(s)	12			
Degree(s) / Years /	Specialization		BS /	2015 / Civil Engineering, Central Connecticut University				
Active registration	number / state / expiration	ion date	Engi	neer-in-Training: 35255 / Tennessee / NA				
			FHW	FHWA-NHI-130055 Safety Inspection of In-Service Bridges				
			FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel F	3ridges			
Year registered	2021	Discipline	Civil					
Contract role(s) / bi	rief description of respo	onsibilities	Plan	& Document Retrieval & Review / Site Visits				
Experience dates	Experience and quality	fications relevan	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	designed			
(mm/yy-mm/yy) intersection", etc. Experience dates she				over the time specified in the applicable MPR(s).				
08/21 – Present	LADOTD IDIQ for	<b>In-Depth Inspe</b>	ction of	of Complex Bridges, Statewide, Louisiana. Team Member, Drone	e Operator,			
and Rope Access Supervisor for one of the current five-year retainer contracts (2019-2024) as a major subconsultant								
	HNTB, contracted to	perform in-dept	h bridg	ge inspections on complex, signature, long-span bridges throughout	Louisiana.			
	Performed the inspec	tion of the I-10 I	Bridge	over the Calcasieu River in Lake Charles utilizing rope access on f	racture			
	critical members and	UAS drone acce	ess tech	iniques on columns, secondary members and connections. Respons	ible for			
	inspecting the steel su	ibstructure units	utilizi	ng fall protection techniques and a work boat platform with a rope	access			
	safety management p	lan. Responsible	tor in	specting the lower chord of the main span steel arched through trus	s utilizing			
	fall protection and roj	pe access technic	ques. F	Responsible for working together with other supervisors and team le	aders on			
	site to communicate t	ne hazards and i	nitigat	ion techniques for safe operations and rescue pre-plans. Document				
	notes and sketches ut	inzing traditiona	il mein	and any interviewed the dreft report for consistency and ecourory	cessing.			
0.1/10 Dresont	I A DOTD IDIO for	A noillow Sign	ement	plan and reviewed the draft report for consistency and accuracy.				
04/19 - Present	LADOID IDIQ IOF	Ancinary Sign	aontro	tory and inspection, statewide Louisiana. Team Leader and Rope	2 Access			
	the Orleans District a	long this corride	r I ea	d the development of the new Sign Truss Inspection Program by im	a, including			
	nolicies and standard	operating proce	dures	Managed and utilized the fall protection safety program with rope s				
	techniques and rescue	plans I ead the	devel	opment of an application for an internal tablet-based inventory man	agement			
	system Non-destruct	ive testing was r	erforn	bed on all anchor rods at all cantilever structures base plates with e	agement			
	standoff distances, an	d where deficie	icies w	vere observed at steel and aluminum welds. Managed the OC report	review			
	process and the OA f	ield and office re	eview	process. Managed and planned the Temporary Traffic Control plan	s and setups			
	for lane closures through	ughout the state	along	with all of the District traffic engineers. Analyzed altered load path	s.			
01/22 – Present	LADOTD In-Depth	Inspections of (	Comp	lex Bridges, Audubon Bridge, Louisiana. Rope Access supervisor	r and NBIS			
	Inspector planning fo	r the in-depth N	BIS ro	utine and fracture critical inspection of the Audubon Bridge.				

Firm employed by Moffatt & Nichol							
Name Laura N	Ailler, EIT			Years of relevant experience with this employer	4		
Title Bridge In	nspector			Years of relevant experience with other employer(s)	0		
Degree(s) / Years	/ Specialization		MBA	A / 2017 / Corporate Strategy and Leadership			
			MS /	2017 / Global Management			
			BS /	2012 / Double Major: Human/Regional Geography and Spanish wi	ith		
			Envi	ronmental Engineering Minor			
Active registration	number / state / expirat	ion date	Engi	neer-in-Training: EI.0034949 / Louisiana / N/A			
			FHW	A-NHI-130055 Safety Inspection of In-Service Bridges			
			FHW	VA-NHI-130078 Fracture Critical Inspection Techniques for Steel I	3ridges		
			FHW	A-NHI-130091 Underwater Bridge Inspection			
			FHW	A-NHI-130107A Fundamentals of Bridge Maintenance			
			FHW	A-NHI-135086 Stream Stability Factors and Concepts			
			FHW	A-NHI-135087 Scour at Highway Bridges: Concepts and Definition	ons		
Year registered	2021	Discipline	Civil				
Contract role(s) / b	prief description of respo	onsibilities	Site Visits				
Experience dates	Experience and quali	fications relevant	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	'designed		
(mm/yy–mm/yy)	intersection", etc. Ex	perience dates sh	ould c	cover the time specified in the applicable MPR(s).			
08/18 - present	LADOTD IDIQ for	<b>Underwater Br</b>	idge I	nspection, Statewide, Louisiana. Assistant bridge inspector for the	e current		
	five-year retainer con	tract to perform	underv	water bridge inspections throughout Louisiana with acoustic imagin	ıg of		
	approximately 400 bi	ridges over large	river of	crossings. Level I, II, and III inspections of submerged elements are	e performed		
	in accordance with th	e FHWA BIRM,	, AAS	HTO MBE, current NBIS requirements and LADOTD requirement	ts. Input		
	element level data an	d upload PDF rep	ports v	via InspectTech database within 30 days of the inspection. (2017-20	)21)		
08/18 - present	LADOTD IDIQ for	<b>Ancillary Sign l</b>	Invent	tory and Inspection, Statewide, Louisiana. Assistant project man	ager and		
	team leader for the cu	arrent five-year re	etainer	r contract to perform approximately 1,400 overhead sign truss inspe	ections and		
	rehabilitation designs throughout Louisiana. Ancillary inspections include steel and aluminum welds, high stress moment						
	connections, and frac	ture critical elem	nents in	n accordance with Federal Highway Administration (FHWA) guide	lines. Team		
	performed Level III i	nspections with u	ultraso	nic testing on bolted connections, mag particle testing on steel weld	ded		
	connections, and dye	penetrant testing	g on al	uminum-welded connections. Performed quality assurance/quality	control		
	reviews on inspection	ns reports.					

Firm employed by	Moffatt & Nichol					
Name Stephani	e Athanas Eschenbach	n		Years of relevant experience with this employer	4	
Title Civil Eng	ineer EIT			Years of relevant experience with other employer(s)	4	
Degree(s) / Years /	Specialization		Bach	nelor of Science / 2019 / Civil Engineering		
Active registration	number / state / expirat	ion date	N/A			
Year registered	N/A	Discipline	N/A			
Contract role(s) / br	rief description of respo	onsibilities				
Experience dates	Experience and quality	fications relevan	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	designed	
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates sh	ould c	cover the time specified in the applicable MPR(s).		
11/19 – Present	Louisiana Departme	ent of Transpor	tation	& Development (LADOTD) Statewide Inventory and Inspectio	n of Sign	
	Trusses Statewide, I	Louisiana. Assis	ted in	completing overhead sign truss inspections. Ancillary inspections in	nclude steel	
	and aluminum welds,	high stress mon	nent co	onnections, and fracture critical elements in accordance with Federa	l Highway	
	Administration (FHW	(A) guidelines.	l'eam p	performed Level I, II, and III inspections on all assessed signs and c	ompleted	
	inspections reports fo	r each location.	Level	Ill inspection work includes ultrasonic testing on bolted connection	s, mag	
01/22 D	particle testing on steel welded connections, and dye penetrant testing on aluminum-welded connections.					
01/22 - Present	Louisiana Department of Transportation & Development (LADUTD) Underwater Bridge Inspections, Statewide,					
	Louisiana. Level I, I.	I, and III inspect	ions of	I submerged elements were performed in accordance with the FH w	A, BIRM,	
	AASHIO MBE, curr	ent NBIS require	ements	s and LADOID engineering and maintenance directives. Inspection	15 d Norbit	
	Winghead i77 Bridge	a types included	er inna moval	gnig. Intaging units used include Kongsberg Mesolech MS 1000 an	a Norbit	
	cable staved bridges	single and multi	span	bridges. Produced underwater acoustic images from data collected t	from the	
	imaging units Assist	ed with managin	σ reno	rt scheduling and report writing	10m the	
07/19 - 08/19	PRF R238 & R239 N	AOTEMS Audit	$\frac{1}{5}$ I on	g Beach California Assisted in the inspection report for Pier 238	and Pier	
07/19 00/19	239 in the Port of Lor	ng Beach. The in	snecti	on report consisted of Executive Summary scope of inspection fac	ility	
	assessment, inspectio	n results. MOTE	EMS A	udit Report Tables and Checklists, and Summary and Recommenda	ations. The	
	report followed the MOTEMS Inspection Condition Assessment Ratings (ICARs) and assigned follow-up action and					
	remedial action priorities to concrete piles caps beams deck slabs timber fender piles timber structural piles mooring					
	components, fenderin	ig components, a	ind bul	lkhead based on the ICAR. Detailed drawings of defect mark-ups w	ere created	
	by using AutoCAD a	nd Bluebeam to	help g	ive a visualization of both piers.		
01/22 - Present	LADOTD In-Depth	Inspections of (	Comp	lex Bridges, Audubon Bridge, Louisiana. NBIS Inspector for the	in-depth	
	NBIS routine and frac	cture critical insp	pection	n of the Audubon Bridge.	_	

Firm employed by	Moffatt & Nichol				
Name Jeffrey G	azarek, COSS, COSN	1		Years of relevant experience with this employer	7
Title Safety &	Risk Assessment Lead			Years of relevant experience with other employer(s)	10
Degree(s) / Years /	Specialization		Com	mercial Diving with Concentration in Subsea Inspection / 2005 / D	ivers
			Insti	rute of Technology	
Active registration	number / state / expirate	ion date	Certi	fied Occupational Safety Specialist (COSS)	
			Certi	fied Occupational Safety Specialist (COSM)	
			FHW	A-NHI-130053 Bridge Inspection Refresher Training	
			FHW	A-NHI-130055 Safety Inspection of In-Service Bridges	
			FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel H	Bridges
Year registered	N/A	Discipline	N/A		
Contract role(s) / br	rief description of respo	nsibilities	Site	Visits / Safety Manager	
Experience dates	Experience and quality	fications relevan	t to the	e proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "	designed
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates sh	nould c	over the time specified in the applicable MPR(s).	
06/20 - Present	Port of Long Beach	(POLB) On-Ca	ll Wat	erfront Facilities Inspection & Assessment Services, Long Beac	ch, CA.
	Dive inspector and sit	te safety speciali	ist for	waterfront facilities at POLB. Responsibilities included above and l	below water
	inspection of the cond	crete pile structu	re at P	ier C Berths C60- C62. Responsibilities for the project included equ	uipment
	preparations, on-site	safety, inspecting	g all st	ructures above and below the water. The diving operations were co	nducted off
	Moffatt & Nichol's P	ier Review vess	el and	used either surface-supplied diving or scuba diving techniques to en	nsure safe
11/10 D	practices as well as cl	ear and precise i	notatio	ns.	
11/19 - Present	LADOID IDIQ for	In-Depth Bridg	ge Insp	ection, Statewide, Louisiana. Site safety specialist, sonar specialist	st and senior
	dive supervisor for th	e current five-ye	ear reta	iner contract (2019-2024) to perform in-depth bridge inspections of	n complex
	and movable bridges	throughout Loui	Isiana.	As the primary subconsultant to HINB, Monatt & Nichol is perior	ming
	complete in-depth ins	pections (Iuliili	ing bot	n routine and fracture critical inspection types) as a quality assuran	ce measure
	on the District personnel for the Headquarters Bridge Inspection Office. Level I, II, and III inspections of submerged				
	Bridge Inspection Mo	ce with the FHW	A, DI	wired as needed. Bridge types include contilever trusses, segmented	le LADOID
	Bridge Inspection Manual (BIM) will be required as needed. Bridge types include cantilever trusses, segmental concrete				
	timber elements	swing span ond	ges, De	sectie offages, cable-stayed offages and offages of various configur	auons with
09/14 - Present	LADOTD IDIO for	Underwater Br	idoe I	nspection. Statewide, Louisiana, Sonar and senior dive supervisor	r of the
	current five-vear retain	iner contract to r	perform	underwater bridge inspections throughout Louisiana Level I II a	and III
	inspections of submerged elements are performed in accordance with the FHWA RIRM AASHTO MRE current NRIS				
	requirements and LA	DOTD requirem	ents		
	I requirements and LA	DOIDICYUITEII	icilits.		

Firm employed by	Moffatt & Nichol						
Name Christop	ner (Chip) Eschenbach, CWI		Years of relevant experience with this employer	4			
Title Bridge Ins	spector		Years of relevant experience with other employer(s)	6			
Degree(s) / Years /	Specialization	Asso	ciates / 2015 / Welding Technology				
	-	Certi	fied Welding Inspector (CWI)				
Active registration	number / state / expiration date	FHW	A-NHI-130055 Safety Inspection of In-Service Bridges				
		FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel H	Bridges			
		FHW	A-NHI-130053 Bridge Inspection Refresher Training				
Year registered	N/A Discipline	N/A					
Contract role(s) / br	ief description of responsibilities	Site	Visits				
Experience dates	Experience and qualifications relevan	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	'designed			
(mm/yy–mm/yy)	intersection", etc. Experience dates sh	ould c	over the time specified in the applicable MPR(s).				
11/19 – Present	LADOTD IDIQ for In-Depth Bridg	ge Insp	ection, Statewide, Louisiana. NBIS Team Member for one of the	current			
	five-year retainer contracts as a major	subco	nsultant to HNTB, contracted to perform in-depth bridge inspection	ns on			
	complex, signature, long-span bridges	s. Perfo	ormed the inspections of both cable-stayed bridges (Audubon and I	Luling) with			
	rope access techniques to inspect 208	cables	between the two bridges, their Gensui Dampers, and anchorages. I	Performed			
	the inspection of I-10 Horace Wilkins	on Bri	dge utilizing rope access techniques and rolling lane closures to gre	eatly			
	minimize traffic impacts. Performed a	ı suppl	emental inspection of the GNO Cantilever Truss Bridges in New C	vrleans			
	utilizing rope access techniques. Perfo	utilizing rope access techniques. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New					
	Orleans utilizing rope access and UAS	S acce	ss techniques. Performed the inspection of the I-10 Bridge over the	Calcasieu			
	River in Lake Charles utilizing rope access on FCM's and UAS access techniques on columns.						
01/20 - Present	LADOTD IDIQ for In-Depth Bridg	ge Insp	ection of Complex Structures, Statewide, Louisiana. NBIS Tear	n Member			
	for one of the current five-year retained	er cont	racts as a major subconsultant to Gresham Smith, to perform in-dep	oth bridge			
	inspections on complex, movable, long span, and precast segmental box girder bridges. Performed and lead the structural,						
	mechanical, and electrical inspections	s of six	(6) movable bridges utilizing detailed, nondestructive and laborate	ory testing			
	methods with hand sketches. Hands-o	n man	agement and implementation of the QA/QC plan is vital to the cont	inued			
00/10 <b>D</b>	success of this project.	• • • •		<u> </u>			
08/18 - Present	LADOID IDIQ for Underwater Br	idge I	nspection, Statewide, UWI District 62, Baton Rouge, Louisiana	Bridge			
	Inspector for bridges in District 62. R	espons	ibilities included the underwater portion of the bridge inspection. I	asks for			
	inspection of said bridges included ins	spectio	on of all underwater members, gathering sediment depths around br	idges,			
	listing any additional detects not listed	a in pr	evious reports, taking photos and updating current information on e	ach bridge.			
	Responsibilities for the job compiled	or equ	ipment preparations, driving the truck and company boat, diving or	i oriages			
	and assisting with the inspection and of from the Dates Device portion hast	uata co	offection for the bridges above the water. The diving operations wer	e conducted			
	wall as alash and massive notations	ising s	urrace-supplied diving or scuba diving techniques to ensure safe pra	actices as			
	well as clear and precise notations.						



09/22 – Present	Mississippi Office of State Aid Road Construction Master Services for Complex Bridge Inspections, Mississippi Statewide. NBIS Bridge Inspector for 8 bridges including a load rating summary review, report drafting, and quality
	control reviews.

Firm employed by	Moffatt & Nichol					
Name Billy Jen	kins, PE			Years of relevant experience with this employer	10	
Title Chief Brid	dge Engineer/Project M	lanager		Years of relevant experience with other employer(s)	37	
Degree(s) / Years /	Specialization		BS /	1975 / Civil Engineering		
Active registration	number / state / expirati	ion date	1112	6 / Virginia / 11/30/2024		
			FHW	A-NHI-130055: Safety Inspection of In-Service Bridges		
		1	FHW	A-NHI-130053: Bridge Inspection Refresher Training		
Year registered	1979	Discipline	Civil	Engineering		
Contract role(s) / br	rief description of respo	nsibilities	Ana	lysis & Load Rating		
Experience dates	Experience and qualit	fications relevan	t to the	e proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "	designed	
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates sh	nould c	over the time specified in the applicable MPR(s).		
08/17 - present	Annual Bridge Insp	ection Program	, Virg	inia Beach, Virginia. QA/QC and technical advisor for NBIS inspe	ction of the	
	City's 100+ structure	s. Inspections ha	ive inc	luded routine and underwater inspections of the city's bridges, culv	erts, and	
	ancillary structures. In	nspection focuse	d on N	VBIS requirements while also looking at fracture critical component	s such as	
	welds, pin and hanger	rs, bolled connec	cuons a	NDIS Deting of the structure in its summent condition	essment,	
02/12 present	Annual Pridge Inspe	ons, site photos a	Cont	NDIS Rating of the structure in its current condition.	d for NDIS	
03/12 - present	Annual Bridge Inspection Program Contract, Newport News, Virginia. Finicipal-in-charge and QA/QC lead for NBIS					
	nedestrian bridges ra	inspection of the City's 49 structures under a four-year annual service contract. Structures include venicular bridges, not addition to ad				
	inspection services N	Infatt & Nichol	l is nro	viding the following services: feasibility and alternative analysis of	structures.	
	underwater investigation: load canacity analysis: inspection of overhead/ancillary sign structures: construction documents					
	for rehabilitation of structures: construction documents for replacement of structures: geotechnical and non-destructive					
	material testing; cost estimating and programming; bridge management; construction observation: and regulatory					
	permitting.	0 1	U		5	
10/07 - present	City of Suffolk Annu	ial Bridge Insp	ection	Program, Suffolk, Virginia. Quality manager and technical exper-	t for the	
-	annual inspections of	a portion of the	City o	f Suffolk's 95 bridges, 56 culverts, 88 sign structures, and 146 sign	alized	
	traffic intersections. Provides technical guidance/input and QC review of project documents including reports from					
	inspection, load rating, overweight vehicle permit review, and repair/rehabilitation design/recommendations. Under the					
	current contract, M&	N has provided 1	repairs	for five City bridges.		
06/14 - present	City of Norfolk IDIC	<b>Q</b> for Bridge Ins	spectio	on and Engineering Services, Norfolk, Virginia. Quality manager	and	
	technical expert provi	iding technical a	nd qua	lity control review of all inspection reports and load ratings. Qualit	y manager	
	for major rehabilitation	on of Granby Str	eet Bri	idge. Technical lead for development of repair recommendations fo	r the	
	rehabilitation of Robi	n Hood Road B	ridge a	nd multiple rehab packages which focus on specific bridge preserva	ition	
	techniques to extend	the service life o	of the C	City's structures.		



02/16 - present	<b>VDOT Safety Inspections of Highway Structures &amp; Bridges, &amp; Support Structures for Traffic Control Devices,</b> <b>Hampton Roads District, Virginia.</b> Quality Manager and Senior Structural Engineer for two consecutive contracts involving NBIS routine topside/underwater and emergency inspections for over 300 structures to date located throughout the Hampton Roads District including 4 signature complex structures. Performs Quality review on every inspection report completed by team to confirm analyses and recommendations meet VDOT's objectives/goals to extend the structure service life as well as provide independent check of field work. This has included Quality review of LARSA 4D load rating of the L 64 Bridges over Hampton River to determine bridge load capacities.
02/94-05/05	<ul> <li>Pinners Point Interchange (I-164) Bridge, Portsmouth, Virginia. Project manager and chief bridge engineer for a 3,600-foot bridge over the western branch of Elizabeth River. Bridge designed for horizontally and vertically curved alignment that included seven lanes of traffic and bikeway, with prestressed concrete AASHTO Type V and Type VI modified I-beams, and 66-inch diameter prestressed cylinder piles. The project also included 3,000 feet of mechanically stabilized earth (MSE) retaining walls and soundwalls.</li> </ul>
05/89-07/91	Interstate 64 HOV Lane Bridges (10 Bridges), Norfolk and Virginia Beach, Virginia. Project manager and chief bridge engineer for the accelerated design and construction of ten I-64 HOV Lanes Bridges consisting of various simple and continuous span layouts ranging from 30 to 160 feet in length, utilization of prestressed beams, steel rolled beams with and without cover plates, and steel plated girders. The bridges crossed two and three lane roadways. Ten bridges were designed in 18 months.
01/75-10/79	I-664 Interchange Bridges, Hampton, Virginia. Bridge engineer for the design and preparation of construction documents, cost estimates, and field inspections of bridges associated with I-664 widening (Ramps B, C, and D, plus Queen Street Bridge and New Market Creek Bridge). Ramps B and C utilized curved steel plate girders spanning 230 feet while Ramp D utilized reinforced concrete.
12/75-01/85	Movable Bridges in Hampton Roads, Virginia. Bridge engineer for inspection, rating and preparation of numerous maintenance and repair documents for several movable bridges in the Hampton Roads area: Pungo Ferry Bridge (Swing), Virginia Beach; Route 104 over Elizabeth River (Bascule), Chesapeake; Gilmerton Bridge (Bascule), Chesapeake; Jordan Bridge (Lift), Norfolk.
12/99-06/01	I-95 Bridge over Falling Creek and Marina Road, Chesterfield County, Virginia. Project manager for the bridge alternative analysis of this 375-foot-long interstate bridge which carried six lanes (NBL/SBL) of through traffic, as well as an off-ramp north bound and on-ramp southbound. Prepared construction documents for complete replacement of superstructure and selective repairs and modifications to substructure. Required a minimum of two through lanes in each direction during phased/staged construction.
11/99-02/01	<b>7th Street and Chamberlayne Bridges over I-95, Richmond, Virginia.</b> Project manager and bridge engineer for construction documents for superstructure rehabilitation of two bridges. Designed two-to-four through lane bridges over Interstate 95. Extensive traffic control required. Low bridge clearance an issue as well as close VDOT-City coordination by engineer. VDOT required lane closings be completed between 9PM and 6AM for inspection and construction.

Firm employed by	Moffatt & Nichol			
Name Iris Leon	cio, PE, SE		Years of relevant experience with this employer	2
Title Senior Str	uctural Engineer		Years of relevant experience with other employer(s)	12
Degree(s) / Years /	Specialization	MS /	2003 / Civil and Environmental Engineering	
		BS /	2000 / Civil Engineering	
Active registration 1	number / state / expiration date	4743	8 / Louisiana / 09/30/2023	
		FHW	A-NHI-130053 Bridge Inspection Refresher Training	
		FHW	A-NHI-130055 Safety Inspection of In-Service Bridges	
		FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel F	Bridges
Year registered	2023 Discipline	Civil	and Structural Engineer	
Contract role(s) / br	ief description of responsibilities	Anal	lysis & Load Rating / MPR #4	
Experience dates	Experience and qualifications relevan	t to the	e proposed contract; i.e., "designed drainage", "designed girders", "	designed
(mm/yy–mm/yy)	intersection", etc. Experience dates sh	nould c	over the time specified in the applicable MPR(s).	
01/20 - present	LADOTD IDIQ for In-Depth Bridg	ge Insp	ection of Complex Structures, Statewide, Louisiana. Team Lead	ler, perform
	in-depth bridge inspections on comple	ex, mo	vable, long span, and precast segmental box girder bridges. Perform	ned
	structural inspections of four (4) mov	able br	idges utilizing detailed, nondestructive, and laboratory testing meth	ods with
	hand sketches. Utilized NDT methods	s to ana	alyze deficiencies are complex moveable bridges. Performed engine	eering
	review of the QC plan.			
05/16 - present	Limited Services Term Agreement	for NE	BIS Inspection of Highway Structures and Bridges, and Suppor	t
	Structures, Hampton Roads, Virgin	nia.		
	• WBL Berkley Bridge (I-264) ov responsible for the Stage II inspect to improve the bridge load rating. (BrR). Restrictions by the U.S. C closures, limited work hours at ni complexity to the design. Careful scaffolding. Stage III construction	ver the ction a: . The a oast Guight, and consider n phase	<b>Eastern Branch of Elizabeth River Floorbeam Repairs.</b> Project nd repair design of floorbeams in the 178-ft double-leaf bascule spa s-designed load rating study is performed using AASHTOWare Br- uard and VDOT Hampton Roads District on permissible lane and c ad the likelihood of unscheduled bridge openings during construction deration of construction sequencing and the design of temporary fall e services for review and consultation were also provided.	Manager in in order idge Rating hannel on add sework and
	• Route 17 over the James River prestressed concrete beams in ord spans and a vertical lift span for e is used to target 29 beams with si debonding that may preempt the techniques, including GRABB-IT maximizing the efficient use of a publications to manually calculat	Bridge der to in each no gnifica full cap full cap f cable vailabl e rating	e Beam Strengthening. Project Manager responsible for overseeing mprove the load rating of the 4.4-mile bridge, which consists of 302 orthbound and southbound direction. Carbon Fiber Reinforced Poly unt strand losses. Various anchoring methods to delay failure due to pacity of the repair system are assessed. Other post-tensioning repair splice assemblies, are also evaluated. Avoiding lane closures on Re e construction funds, and adopting ACI guidelines and recent resea gs outside of VDOT's standard bridge rating software are crucial to	g repairs to 2 approach mer (CFRP) fiber r oute 17, rch the design.



• George P. Coleman Memorial Bridge (Route 17) over York River Bridge Load Rating. Senior project engineer
responsible for the as-inspected load rating study of the truss spans of the 3750-ft bridge, which consists of steel girder
approach spans, two fixed truss spans, two suspended truss spans and two swing bridges. A three-dimensional finite
element model is created in LARSA 4D to generate load demands on truss members and the deck framing system.
Gusset plates are checked using Whitmore sections in accordance with the AASHTO Manual for Bridge Evaluation.

Firm employed by I	Moffatt & Nichol				
Name David W	olfe, PE			Years of relevant experience with this employer	23
Title Bridge Er	Igineer			Years of relevant experience with other employer(s)	2
Degree(s) / Years /	Specialization		BS /	1993 / Structural Engineering	
Active registration	number / state / expiration d	late	Profe	essional Engineer: 49072 / Virginia / 07/31/2023	
Year registered	2011 Dis	scipline	Civil		
Contract role(s) / br	ief description of responsibi	ilities	Anal	ysis & Load Rating	
Experience dates	Experience and qualificati	ions relevant	to the	e proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "	designed
(mm/yy–mm/yy)	intersection", etc. Experier	ence dates sho	ould c	over the time specified in the applicable MPR(s).	
03/15 - 03/18	<b>VDOT Limited Services</b>	Term Contr	racts 1	for Providing Load Ratings of Existing Highway Structures Sta	tewide,
	Virginia. Bridge engineer	r for load ratii	ng tas	ks using AASHTOWare's Bridge Rating program and STAAD.Pro	o finite
	element analysis software.	, in accordance	ce wit	th LRFR and LFR methodologies. Responsible as a rater, checker o	or QA/QC
	reviewer for load ratings of	of over 60 bri	dges,	including superstructure types consisting of cast-in-place and preca	ast concrete
	arches and frames, RC sla	ibs and tee be	ams,	steel beams with timber and concrete decks, and curved steel plate	gırders.
04/15 02/16	Served as M&N's Quality Control Engineer for this contract.				
04/15 - 03/16	HDOI General Structural Engineering Services, Oanu, Hawall. Bridge engineer for load ratings tasks of various				
	bridges on Oahu in accord	lance with the		SHIO Manual for Bridge Evaluation as amended in the Hawaii De	partment of
	Transportation Design Cri	iteria ior Brid	iges a	future and entitings were performed in accordance with LK.	FK
02/12 02/15	methodology using the BKASS-GIKDEK software program.				
03/12 - 03/13	Virginia Bridge angineer	r for bridge lo	racis	tings tasks using AASHTOWare's Bridge Bating program (former)	v Virtic) in
	accordance with LREP an	d I FR metho	au Ta	gies. Responsible as a rater or checker for load ratings of over 100 h	y vitus) ili
	including superstructure ty	vnes consistir	ng of	RC slabs and tee beams. PS beams and voided slabs, steel beams w	with timber
	and concrete decks, steel plate girders, and steel floorheam systems. Served as M&N's Quality Control Engineer for this				
	contract				
11/09 - 07/10	VDOT Culpeper District	t Load Ratin	igs. C	Culpener County, Virginia, Bridge engineer for multiple task order	s for bridge
	load ratings for the Culper	per District. F	Respo	nsible as rater or checker for load ratings of 37 bridges, including s	teel beam
	with timber deck bridges (	(26 bridges).	steel	beam with concrete deck (3 bridges), pin connected steel truss (3 br	ridges),
	prestressed and reinforced	concrete slal	bs (2	bridges), RC through-girder (1 bridge), and timber beams and stress	s laminated
	timber (2 bridges)		<u>`</u>		

Firm employed by	Moffatt & Nichol				
Name Bina Ayto	da, PE	Years of relevant experience	with this employer	13	
Title		Years of relevant experience	with other employer(s)	18	
Degree(s) / Years / S	Specialization	S / 2012 / Civil Engineering			
	-	/ 1991 / Civil Engineering			
Active registration n	umber / state / expiration date	527 / Virginia / 12/31/2023			
Year registered 2	2016 Discipline	vil Engineering			
Contract role(s) / bri	ef description of responsibilities	alysis & Load Rating			
Experience dates	Experience and qualifications relevant	he proposed contract; <i>i.e.</i> , "desig	gned drainage", "designed girders", "	"designed	
(mm/yy–mm/yy)	intersection", etc. Experience dates sh	l cover the time specified in the a	applicable MPR(s).		
01/09-11/18	Limited Services Term Contracts fo	roviding Load Ratings of Exist	ing Highway Structures - Region I	II and	
	Statewide Virginia. Structural engine	who load rated bridges using AAS	SHTOWare BrR. Created as-built an	id existing	
	condition models. Created Load Ratin	ummary Form and Load Rating F	Report for submittal to VDOT. Provi	ded	
	recommendations if posting is required				
03/12 - present	Bridge Load Rating Analysis, Newp	News, Virginia. Structural engir	ieer who load rated 20 bridges using	5	
	AASHTOWare BrR. Created as-built	existing condition models. Creat	ed Load Rating Summary Form and	Load	
	Rating Report for submittal to City. Pr	ded recommendations if posting	is required.		
	• Route 60 Warwick Boulevard or	Lake Maury Bridge Replacem	ent. Structural engineer for final des	ign,	
	construction document preparation	ost estimate, load rating to replac	e this 80-year-old bridge. Final desig	gn modified	
	the original design to lengthen brid	to minimize demolition, widen it	t to accommodate a multi-purpose tr	ail, and to	
	update phasing to streamline construction. Between planning and final design, was structural engineer for evaluation of				
	one of the value engineering alternatives and prepared report, presentation with sketches, cost estimate and				
	recommendations.				
08/17 - present	NBIS Bridge Inspections, Virginia F	h, Virginia. Structural engineer	who load rated the existing bridges	using	
-	AASHTOWare BrR. Created as-built	existing condition models. Creat	ted Load Rating Summary Form and	l Load	
	Rating Report for submittal to the City	ovided recommendations if post	ing if required.		
03/14 - 02/17	Sandbridge Road Replacement, Vir	a Beach, Virginia, Structural en	gineer who provided basis of design	for the	
	bridge replacement per VDOT guideli	which governs the geometrics, s	superstructure, substructure, and app	roach slabs	
	for the proposed bridge. Part of the tea	or Alternative Bridge Alignment	Study; studied various bridge align	ments and	
	their effects to the environment and ar	ach roads. Developed sketches sl	howing different alignment alternati	ves with	
	respect to the existing bridge. Prepared	st estimates for all of the alignme	ents in the study. Prepared a report o	of the study	
	findings and final bridge alignment re-	mendation. Performed site visits	and meetings with local and govern	ment	
	agencies.		-		

Name         Colby J. Guidry, PF.         Years of experience with this firm/employer         13           Title         Vice President and Lead Engineer         Years of experience with this firm/employer(s)         7           Degree(s) / Years / Specialization         BS / 2000 / Civil Engineering         31338 / Louisiana / 09/30/2024         FMWA-NHI-130053 Bridge Inspection of In-Service Bridges           Active registration number / state / expiration date         31338 / Louisiana / 09/30/2024         FHWA-NHI-130053 Bridge Inspection of In-Service Bridges         FHWA-NHI-130053 Stafty Inspection of In-Service Bridges           Year registered         2004         Discipline         Civil Engineering         Contract not(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Texperience dates         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed (mi/yy-mm/yy)         The spect of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridge inspectons, and construction support services. Completed the WHI LAFR for Superstructures course, he Work Zone Traffic Control, Roadside Design Course, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Ushan Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Ushan Zourse, SP and Highway Course, MI Ushan Drainage Design Course, and Rating of Bridges for the Parish Bridge Inspection - From 200	Firm employed by	Huval and Associates	, Inc.			
Title         Vice President and Lead Engineer         Years of experience with other firm(s)/employer(s)         7           Degree(s) / Years / Specialization         BS / 2000 / Civil Engineering            Active registration number / state / expiration date         \$1338 / Louisiana / 09/30/2024 FHWA-NHI-130055 Bridg Inspection Refresher Training FHWA-NHI-130075 Practure Critical Inspection Contingues for Steel Bridges FHWA-NHI-130075 Practure Critical Inspection of the Special Contingues for Steel Bridges FHWA-NHI-130075 Practure Critical Inspection (soft Steel Bridges FHWA-NHI-130078 Practure Critical Inspection (soft Steel Bridges FHWA-NHI-130078 Practure Critical Inspection, and Ratings / MPR #5           Year registered         2004         Discipline         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates         Experience dates should cover the time specified in the applicable MPR(s).            Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspectors, and construction support services. Completed the NHI LFR for Superstructures Course, the Work Zone Traffic Control. Readside Design Course, NHI Highway Hydraulices Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs.	Name Colby J.	Guidry, PE			Years of experience with this firm/employer	15
Degree(s) / Years / Specialization         BS / 2000 / Civil Engineering           Active registration number / state / expiration date         31338 / Louisiana / 09/30/2024           FileWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges Superstructures           Vear registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates (mm/yy-mm/yy)         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges inspectons, and construction support services. Completed the two-weck FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI Design & Operation of Work Zoon Traffic Control. Roadisd Design Course, NH Highway Hydraulics Course, NHI Uban Drainage Design Course, as well as any construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Repair Projects, in particular the erpaide Stee HWA-Stee Bridges. Bridges inclu	Title Vice Pre	sident and Lead Enginee	er		Years of experience with other firm(s)/employer(s)	7
Active registration number / state / expiration date       31338 / Louisiana / 09/30/2024         FHW A-NHI-130035 Bridge Inspection of In-Service Bridges         FHW A-NHI-130035 Stafety Inspection of In-Service Bridges         FHW A-NHI-130075 Fracture Critical Inspection of In-Service Bridges         FHW A-NHI-130075 Vandementals of LRFR and Applications of LRFR for Bridge         Superstructures         Year registered       2004         Discipline       Civil Engineering         Contract role(s) / brief description of responsibilities       QA-QC / Bridge Design, Inspection, and Ratings / MPR #5         Experience dates       Experience dates should cover the time specified in the applicable MPR(s).         Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspections, and construction support services. Completed the NH1 LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NH1 Design & Operation of Work Zone Traffic Control Readside Design Course, NHI Highway Hydraulies Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Spees, and the current AASHTO LRPD Bridge Spees         01/07-P	Degree(s) / Years /	'Specialization		BS /	2000 / Civil Engineering	
Provide the second structure of the second structure second struct	Active registration	number / state / expirati	on date	3133	8 / Louisiana / 09/30/2024	
Prescription         FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges Superstructures           Year registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience adates         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridge inspections, and construction support services. Completed the NHL LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHL LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs           01/07-Present         St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair and Precast Concrete Bridges		*		FHW	A-NHI-130053 Bridge Inspection Refresher Training	
FHW A-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges FHWA-NHI-130022 Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures           Year registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates (mm/yy-mnyy)         Experience dates subtrox, etc. Experience dates should cover the time specified in the applicable MPR(s).           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspectors, certified as a Bridge Inspection Team Leader, completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Courses, VHI Highway Hydraulies Course, AHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs           01/07-Present         St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Timber Piling on Precast Bridges. Bridges inc				FHW	A-NHI-130055 Safety Inspection of In-Service Bridges	
Year registered         2004         Discipline         FHWA-NHI-130092 Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures           Year registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates (mm/yy-mm/yy)         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed (mitry-mm/yy)           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Spees, and the current AASHTO LRFD Bridge Spees           01/07-Present         St. Martin Parish Bridge Inspection - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on				FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel B	ridges
Year registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates (mm/yy-mm/yy)         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed (mm/yy-mm/yy)           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspectors, certified as a Bridge Inspection Team Leader, completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NH1 LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NH1 Design & Operation of Work Zone Traffic Control, Roadside Design Course, NH1 Highway Hydraulics Course, NH1 Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFP Bridge Spect           01/07-Present         St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span				FHW	A-NHI-130092 Fundamentals of LRFR and Applications of LRFR	for Bridge
Year registered         2004         Discipline         Civil Engineering           Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates (mm/yy-mm/yy)         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulies Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Spec           01/07-Present         St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.           01/17-Present         St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guid				Supe	rstructures	_
Contract role(s) / brief description of responsibilities         QA-QC / Bridge Design, Inspection, and Ratings / MPR #5           Experience dates         Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed (mm/yy-mm/yy)           Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspections, and construction Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Speces.           01/07-Present         St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.           01/17-Present         St. Landry Parish of St. Landry. This work also inc	Year registered	2004	Discipline	Civil	Engineering	
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course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs         01/07-Present       St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.         01/17-Present       St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	preparation, bridge	e inspections, and constru	uction support se	ervices	. Completed the two-week FHWA approved comprehensive bridge	training
Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic         Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs         01/07-Present       St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.         01/17-Present       St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	course for bridge in	nspectors, certified as a l	Bridge Inspectio	n Tear	n Leader, completed the NHI LRFR for Superstructures Course, the	: Work
Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs         01/07-Present       St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.         01/17-Present       St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	Zone Traffic Conti	ol Technician and Super	rvisor Courses, A	ATSSA	A Flagger Training, the NHI Design & Operation of Work Zone Tra	ffic
environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs         01/07-Present       St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.         01/07-Present       St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	Control, Roadside	Design Course, NHI Hig	ghway Hydrauli	cs Cou	rse, NHI Urban Drainage Design Course, as well as many construct	tion and
AASHTO LRFD Bridge Specs         01/07-Present       St. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.         01/17-Present       St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	environmental rela	ted courses. Very famili	ar with the LAD	OTD I	Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the curr	ent
01/07-PresentSt. Martin Parish Bridge Program - From 2007 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.01/17-PresentSt. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	AASHTO LRFD F	Bridge Specs				
01/07-PresentBridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.01/17-PresentSt. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		St. Martin Parish Br	ridge Program	- From	2007 to present, Mr. Guidry has been involved in the Inspection an	d Rating of
of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.01/17-PresentSt. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings - Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	01/07-Present	Bridges for the Parish	of St. Martin. T	his wo	ork also included the design of Bridge Repair Projects, in particular	the repair
and Precast Concrete Bridges.01/17-PresentSt. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings - Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		of Timber Piling on P	recast Bridges.	Bridge	s included one Pontoon Bridge, one Swing Span Bridge and numero	ous Timber
01/17-PresentSt. Landry Parish Bridge Inspection - From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings - Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		and Precast Concrete Bridges.				
01/17-Presentof Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.12/20 - 06/21Ascension Parish 26 Bridge Ratings - Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		St. Landry Parish B	ridge Inspection	n - Fro	m 2017 to present, Mr. Guidry has been involved in the Inspection	and Rating
01/1/-Present       repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.         12/20 - 06/21       Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	01/17 D	of Bridges for the Par	ish of St. Landry	y. This	work also included the design of Bridge Repair Projects, in particu	lar the
as well as precast and cast in place box culverts.         12/20 - 06/21         Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.	101/1/-Present repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete			e Bridges,		
12/20 - 06/21Ascension Parish 26 Bridge Ratings - Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		as well as precast and cast in place box culverts.				
12/20 – 06/21 assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.		Ascension Parish 26	<b>Bridge Ratings</b>	– Insp	bected, gathered documentation, rated, provided repair plans, as wel	l as
bridges to remain open while repairs were planned.	12/20 - 06/21	assisted in construction	on rehab reviews	for $26$	Ascension Parish bridges. Complex analysis rating analysis allowe	d the
		bridges to remain ope	n while repairs v	were p	lanned.	



	Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 - Supervisor
4/18 – Present	Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, and bridge rehab
	design for the \$4M retainer.
	Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 4400002537- Supervising
09/12 - 12/17	Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, bridge rehab design for
	the \$6M retainer contract.
	Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM) - Statewide, Contract No.
05/11 - 08/15	440001543-Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering
	Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes.
	Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, S.P. 700-99-0488 - Lead Engineer of
08/09-06/15	Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task
00/09 00/15	Orders totaling approximately \$8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of
	bridge design and inspection.
	I-49 Bridges (Various Segments), Under Retainer No. 4400000670 – Lead Engineer for LRFR load ratings for 18
03/09 - 11/12	bridges, design and final plans of over 10 bridge structures and 1 box culvert structure. Bridge types included steel girder,
	prestressed concrete, and slab spans. Managed several sub-consultants producing numerous bridge plans.
	Herman Dupuis Swing Span Bridge (Movable) – St. Martin Parish – Project Manager for the design and plan
01/19- Present	development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Design
	elements include all aspects of the bridge including environmental clearance, surveying, structural design, mechanical
	design, electrical design, nydraulic design, roadway design, and all other design elements.
10//14 - 12/14	Bayou Mercler Bridge Renabilitation, St. Martin Parisn – Project Engineer for the construction project which consisted
	of repairing piles, cap replacements, wingwall construction, and other miscellaneous works.
10/14 02/15	St. Martin Parisi Phase II Bridge Repairs, St. Martin Parisi – Project Engineer for the complete reconstruction of
10/14-05/15	wingwelle, new readway enpressed work, new guardrail
	St Martin Darich Phase III Pridge Densing St Martin Darich – Draiget Engineer for the complete reconstruction of
10/14 05/15	st. Martin Parisi Phase in bridge Repairs, st. Martin Parisi – Project Engineer for the complete reconstruction of three concrete bridges. Construction consisted of new piles, concrete panel removal, new cons. new bulkbacks, new
10/14-05/15	wingwalls, new roadway approach work, new guardrail
	Rusty Rd. Bridge Penlacement St. Martin Parish Assistant Project Engineer for the bridge replacement project on
12/15-03/16	Rusty Rd. in St. Martin Parish New bridge consisting of new concrete girders, new concrete cans, new concrete piles, new
12/13-03/10	wingwalls new backwalls new approach slabs new approach roadway new asphalt etc.
	Desselles Crossing Bridge Rehabilitation Avoyelles Parish – Project Engineer for the bridge rehabilitation project
12/17 - ongoing	which consists of 30 pile splices, new stringers, cap repairs, new backwalls, approach work
	Surrey St. Bridge Renairs, Lafavette Parish – Assistant Project Engineer for the renair of the Surrey St. Bridge in
11/17-07/18	Lafavette. Project consisted of bearing repair and replacement concrete riser construction, deck overlay, joint repairs
11/1/-0//10	painting of steel girders with full enclosure, and miscellaneous work
L	

Firm employed by	Garver & Associates	, LLC						
Name Frank (I	Blake) Blakemore, PE,	DBIA		Years of relevant experience with this employer 10				
Title Senior P	roject Manager			Years of relevant experience with other employer(s)	29			
Degree(s) / Years	Specialization		MS /	1993 / Civil Engineering, Ocean Engineering,				
				1991 / Maritime Systems Engineering				
Active registration number / state / expiration date				368 / Louisiana / 3/31/2023				
_	-		Desig	gnated Design-Build Professional, D-3220				
			NCE	ES Certificate				
Year registered	1998	Discipline	Struc	tural Engineering				
Contract role(s) / brief description of responsibilities								
Contract role(s) / b	rief description of respo	onsibilities	Anal	ysis & Load Rating / MPR #4				
Contract role(s) / b Experience dates	rief description of respo Experience and quali	nsibilities fications releva	<b>Anal</b> nt to th	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird	ders", "designed			
Contract role(s) / b Experience dates (mm/yy–mm/yy)	Experience and quali intersection", etc. Exp	nsibilities fications relevan perience dates sh	Anal nt to the nould c	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s).	ders", "designed			
Contract role(s) / b Experience dates (mm/yy–mm/yy) 1998-Current	Experience and quali intersection", etc. Exp Frank (Blake) Blaken	nsibilities fications relevan perience dates sh nore, PE, DBIA	Anal nt to th nould co is a ser	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Transp	ders", "designed			
Contract role(s) / b Experience dates (mm/yy–mm/yy) 1998-Current	Experience and quali intersection", etc. Exp Frank (Blake) Blaken with 29 years of expe	nsibilities fications relevan perience dates sh nore, PE, DBIA rience. His desiş	Anal nt to the nould co is a ser gn expe	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Trans- perience encompasses cable-stay, deck arch, tied arch, true arch,	ders", "designed portation Team post-tensioned			
Contract role(s) / b Experience dates (mm/yy–mm/yy) 1998-Current	Experience and quali intersection", etc. Exp Frank (Blake) Blaken with 29 years of expe segmental box, curve	nsibilities fications relevan perience dates sh nore, PE, DBIA rience. His desig d steel box and p	Anal nt to the nould co is a ser gn expe- plate gi	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Trans- erience encompasses cable-stay, deck arch, tied arch, true arch, rders, post-tensioned spliced, haunch girders, and prestressed b	ders", "designed portation Team post-tensioned beam bridge			
Contract role(s) / b Experience dates (mm/yy–mm/yy) 1998-Current	rief description of responseExperience and qualiteintersection", etc. ExperienceFrank (Blake) Blakenwith 29 years of experiencesegmental box, curvetypes. He is experience	nsibilities fications relevan perience dates sh nore, PE, DBIA rience. His desig d steel box and p ced in project ma	Anal nt to th nould co is a ser gn expe plate gi anagem	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Trans- erience encompasses cable-stay, deck arch, tied arch, true arch, rders, post-tensioned spliced, haunch girders, and prestressed b nent and providing innovative technical solutions.	ders", "designed portation Team post-tensioned beam bridge			
Contract role(s) / b Experience dates (mm/yy-mm/yy) 1998-Current 06/20-09/22	rief description of respo Experience and quali intersection", etc. Exp Frank (Blake) Blaken with 29 years of expe segmental box, curve types. He is experience KDOT 7 <sup>th</sup> Street Bri	nsibilities fications relevan perience dates sh nore, PE, DBIA rience. His desig d steel box and p ced in project ma idge Inspections	Anal nt to the nould co- is a ser gn expe- plate gi anagem s, Repa	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Trans- erience encompasses cable-stay, deck arch, tied arch, true arch, rders, post-tensioned spliced, haunch girders, and prestressed b- nent and providing innovative technical solutions. airs, and Load Rating, Wyandotte and Johnson Counties, K	ders", "designed portation Team post-tensioned beam bridge			
Contract role(s) / b Experience dates (mm/yy-mm/yy) 1998-Current 06/20-09/22	rief description of respo Experience and quali intersection", etc. Exp Frank (Blake) Blaken with 29 years of expe segmental box, curve types. He is experience KDOT 7 <sup>th</sup> Street Bri was the project manage	nsibilities fications relevan perience dates sh nore, PE, DBIA rience. His desig d steel box and p ced in project ma dge Inspections ger in charge of	Anal nt to the nould co- is a ser gn expe- plate gi anagem s, Repa the brid	ysis & Load Rating / MPR #4 ne proposed contract; <i>i.e.</i> , "designed drainage", "designed gird over the time specified in the applicable MPR(s). nior project manager and bridge team leader on Garver's Trans- erience encompasses cable-stay, deck arch, tied arch, true arch, rders, post-tensioned spliced, haunch girders, and prestressed b nent and providing innovative technical solutions. <b>airs, and Load Rating, Wyandotte and Johnson Counties, K</b> dge inspection, load rating, cost estimating, and repair phases of	ders", "designed portation Team post-tensioned beam bridge Cansas. Blake of this contract.			

Firm employed by Garver & Associates, LLC									
Name Nick Alto	belli, PE	Years of relevant experience with this employer	9						
Title Senior Pro	oject Manager	Years of relevant experience with other employer(s)	34						
Degree(s) / Years /	Specialization	BS / 1989 / Civil Engineering							
Active registration	number / state / expiration date	45605 / Louisiana / 9/30/2023							
Year registered	1994, 2015, 2021 Discipline	Civil Engineering							
Contract role(s) / br	ief description of responsibilities	Analysis & Load Rating / MPR #5							
Experience dates	Experience and qualifications relevan	t to the proposed contract; i.e., "designed drainage", "designed girders	", "designed						
(mm/yy–mm/yy)	intersection", etc. Experience dates sh	ould cover the time specified in the applicable MPR(s).							
1994-Current	Nick Altobelli is a senior project mana	ager and bridge team leader with 33 years of experience. His previous exp	perience						
	includes serving with MDOT for 25 y	ears, including most recently as the director of structures/state bridge eng	gineer. While						
	at MDOT, his management responsibility	lities included overseeing all structural and hydraulic design and contrac	t plan						
	preparation of bridges and other highv	vay appurtenances; managing MDOT's bridge inspection and rating, brid	lge						
	replacement, and bridge preventative	naintenance programs; coordinating activities with MDOT Law Enforce	ment in the						
	evaluation of vehicles for oversize and	l overweight permits; and providing technical assistance to other MDOT	divisions						
	and districts for construction, inspection	on, repair, and maintenance activities of structures. His project experienc	e includes a						
	variety of bridge types, including pres	tressed concrete, and steel superstructures.							
	He was appointed MDOT's Chairman	of the Design Build Committee and was instrumental in introducing ME	OOT to the						
	design-build project delivery method.	He also was the voting member for Mississippi while serving on the AA	SHTO						
	Subcommittee on Bridges and Structu	res where modifications are adopted to the AASHTO LRFD Design Spec	cifications.						
	Since 2014 Nick has served as a Seni	or project manager and Business Team Leader for Garver working on M	DOT bridge						
	design and repair contracts Mississin	of Office of State Aid Road Construction Bridge Inspection and Load Rai	ting						
	contracts as well as Building Commis	sioning Master Contracts. With assignments under these contracts. Nick	makes sure						
	contract schedules are met provides c	hecks and quality control makes sure comments and concerns are address	sed						
	immediately and provides client supp	ort and project management. Nick utilizes AASHTOWare BrR for load r	atings						
00/10 00/20	MDot off fight a store of the supp		· ,						
09/19-06/22	MDUI Unice of State Ald Complex	Bridge inspections and Load Ratings Statewide, Mississippi. Senior	project						
	manager responsible for peer review of	i bridge load ratings and overall project execution and delivery. This cor	itract						
	Includes providing complex bridge ins	pections, fracture critical inspections, and load rating services.							
08/17-07/20	MDUI Office of State Aid Timber	inspections and Load Ratings Statewide, Mississippi. Senior project m	lanager						
	responsible for managing the bridge if	ispection and load rating services. Work included performing							
	condition evaluations, load rating superstructure and substructure, and providing repair recommendations.								

Firm employed by Garver & Associates, LLC								
gery, PE			Years of relevant experience with this employer	5				
anager			Years of relevant experience with other employer(s)	27				
Specialization		BS /	1994 / Civil Engineering					
number / state / expirat	tion date	1789	0 / Arkansas / 12/21/2024					
		FHW	A-NHI-130055 Safety Inspection Bridges					
		FHW	A-NHI-130053 Bridge Inspection Refresher Training					
	-	FHW	A-NHI-130078 Fracture Critical Inspection Techniques for Steel F	Bridges				
2017	Discipline	Civil	Engineering					
ief description of resp	onsibilities	Plan	& Document Retrieval & Review / Site Visits					
Experience and qual	ifications relevan	nt to tl	he proposed contract; i.e., "designed drainage", "designed girders"	", "designed				
intersection", etc. Ex	perience dates sh	ould c	over the time specified in the applicable MPR(s).					
Rick Kingery serves	as a senior project	ct man	ager on Garver's Transportation Team with 27 years of experience,	, the last 19				
years includes perfor	ming structural in	nspect	ions. Rick is an experienced project manager in bridge inspection a	nd				
providing innovative	and proven man	ageme	nt solutions. He is a National Bridge Inventory Bridge Inspector, T	eam Leader,				
and Program Manage	er Qualified. He l	nas pro	ovided over 10,000 inspections in the last 19 years of state and local	l bridges				
and been instrumenta	al in the rehabilita	ation a	nd repair of hundreds of bridges. He spent 22 years at the Missouri	Department				
of Transportation inc	luding 6 years as	the D	istrict Bridge Engineer in Kansas City and 8 years as the District B	ridge				
Engineer in the North	hwest District. W	hile a	District Bridge Engineer he was responsible for the bridge inspecti-	on program				
in the district, progra	mming and the d	istrict	and regional bridge repair crews. His responsibilities include routin	ie, fracture				
critical, complex, and	d underwater bric	ige ins	pections, as well as bridge rehabilitation. Rick has performed and h	ed the				
inspections of bridge	s on the OSARC	Inspe	ction and Load Rating contracts including the collection of data for	load ratings				
and sketches.	4.4.1.0	D ' I		· ,·				
MDOI Office of Sta	ate Ald Complex	K Brid	ge inspections and Load Ratings Statewide, Mississippi. Bridge	inspection				
manager and inspect	Dognongibilition		abude memoring bridge inspections and generating reports for time	ber				
substructure of lages.	critical findings	and tr	acking the overall project progress	eports and				
MDOT Office of St	entical minuligs,		acking the overall project progress.	n managar				
and inspection team	lead responsible t	for the	bridge inspection and report generation of complex and fracture or	ritical				
bridges Responsibili	ities included ma	naging	and scheduling the bridge inspections, traffic impacts, preparing re	enorts				
including critical find	dings preparing t	the Bri	dge Inspection Plans including Access equipment and Fracture Cri	itical				
member drawings at	nd tracking overa	ll proi	ect nrogress	ltical				
KDOT 7 <sup>th</sup> Street Br	id ducking over	Ren	airs and Load Rating Wyandotte and Johnson Counties Kans					
Structural engineer a	nd bridge inspect	tion te	am leader responsible for the fracture critical bridge inspection reh	abilitation				
assessment, and cost	estimate for the	880-fo	ot deck truss. In the repair phase responsibilities included assisting	with repair				
details and locations.	cost estimate. ar	id the	working day study.					
	Garver & Associates         gery, PE         anager         Specialization         number / state / expirat         2017         ief description of respectation         Experience and qualintersection", etc. Ex         Rick Kingery serves         years includes perfor         providing innovative         and been instrumenta         of Transportation ince         Engineer in the North         in the district, prograd         critical, complex, and         inspections of bridge         and sketches.         MDOT Office of State         substructure bridges.         submittals including         MDOT Office of State         and inspection team         bridges. Responsibilition         including critical find         member drawings, and         KDOT 7 <sup>th</sup> Street Br         Structural engineer a         assessment, and cost         details and locations	Garver & Associates, LLC         gery, PE         anager         Specialization         number / state / expiration date         2017       Discipline         ief description of responsibilities         Experience and qualifications relevation         intersection", etc. Experience dates shows a senior projection of responsibilities         Rick Kingery serves as a senior projection ginnovative and proven mana and Program Manager Qualified. He I and been instrumental in the rehability of Transportation including 6 years as Engineer in the Northwest District. We in the district, programming and the district, complex, and underwater brice inspections of bridges on the OSARC and sketches.         MDOT Office of State Aid Compley manager and inspection team lead responsibilities substructure bridges. Responsibilities submittals including critical findings,         MDOT Office of State Aid Timber and inspection team lead responsible bridges. Responsibilities included matincluding critical findings, preparing the member drawings, and tracking overation structural engineer and bridge inspections for the structural engineer and bridge in	Garver & Associates, LLC         gery, PE         anager         Specialization       BS /         number / state / expiration date       1789         FHW       FHW         2017       Discipline       Civil         ief description of responsibilities       Plan         Experience and qualifications relevant to the intersection", etc. Experience dates should complex should c	Garver & Associates, LLC         Years of relevant experience with this employer           anager         Years of relevant experience with other employer(s)           Specialization         BS / 1994 / Civil Engineering           number / state / expiration date         17890 / Arkansas / 12/21/2024           FHWA-NHI-130053 Bridge Inspection Bridges         FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel H           2017         Discipline         Civil Engineering           ief description of responsibilities         Plan & Document Retrieval & Review / Site Visits           Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).           Rick Kingery serves as a senior project manager on Garver's Transportation Team with 27 years of experience or qualified. He has provided over 10,000 inspections in the last 19 years of state and loca and been instrumental in the rehabilitation and regional bridge repair crews. His responsibilities include routi of Transportation including 6 years as the District Bridge Engineer in Kansas City and 8 years as the District Bridge Engineer in Kansas City and 8 years as the District Bridge Engineer in Kansas and generating reports for tim anager and inspections of bridges on the OSARC Inspections and Load Rating contracts including the collection of data for and sketches.           MDOT Office of State Aid Complex Bridge Inspection and Load Rating Statewide, Mississippi. Bridge manager and inspection team lead responsible for the bridge inspection and traffic impacts, preparing r is ubmit				

Firm employed by	Garver & Associates	, LLC						
Name A.J. Kha	iri, PE, MBA			Years of relevant experience with this employer	30			
Title Project M	lanager			Years of relevant experience with other employer(s) 30				
Degree(s) / Years /	Specialization		MS /	1997 / Structural Engineering				
			MBA	A / 1990 / Marketing and Finance				
			BS /	1988 / Civil Engineering				
Active registration	number / state / expirat	ion date	9086	/ Arkansas / 12/31/2024				
			FHW	A-NHI-130055 Safety Inspection of In-Service Bridges				
Year registered	1997	Discipline	Struc	tural Engineering				
Contract role(s) / br	rief description of respo	onsibilities	Site	Visits				
Experience dates	Experience and qual	ifications relevan	nt to th	ne proposed contract; i.e., "designed drainage", "designed girders	", "designed			
(mm/yy–mm/yy)	intersection", etc. Ex	perience dates sl	nould c	over the time specified in the applicable MPR(s).				
1997-Current	AJ Khairi is a bridge	team leader and	senior	project manager on Garver's Transportation Team with 30 years of	of			
	experience. AJ manag	ges and provides	s QA/Q	C for bridge inspections, underwater bridge inspections, load ratin	gs and			
	bridge repair projects	in Arkansas, M	ississip	ppi, Tennessee, Texas, Alabama, Missouri, and Oklahoma. AJ utiliz	zes			
	AASHTOWare BrR.	His responsibili	ties inc	clude evaluating and reviewing structural conditions of deteriorated	l bridges,			
	structural design calc	ulations, seismic	c design	n and modeling, detailing, bridge inspections and rehabilitation, sc	our analysis,			
	load rating, and unde	rwater inspection	n. In th	e past 30 years, AJ has inspected and provided bridge repair plans,	, seismic			
	retrofit plans, and tra	ffic control plans	s for m	ore than 300 bridges. AJ has performed on-site bridge evaluation f	or scour and			
	structural conditions,	bridge hydrauli	c mode	ling, scour analysis, design and detailing of scour countermeasures	s, and bridge			
	foundation structural	analysis and eva	luation	n for over 1,000 bridges in Tennessee and Mississippi. In addition,	AJ served			
	as a program leader f	or underwater in	spectio	on of approximately 600 bridges in Arkansas, Tennessee, and Miss	issippi, as			
	well as more than 1,1	00 bridges for th	ne Texa	as Department of Transportation. In addition, AJ served as Garver'	s Program			
00/10 06/00	Manager for inspectin	ng approximatel	<u>y 2000</u>	bridges in Texas, Tennessee, and Mississippi.				
09/19-06/22	MDOT Office of Sta	ate Aid Comple	x Brid	ge Inspections and Load Ratings Statewide, Mississippi. Progra	m manager			
	responsible for leading	ng a team to insp	ect 200	) bridges in Mississippi. These inspections included NBIS routine a	and fracture			
	critical inspections. A	AJ also served as	Struct	ural team leader for load rating (ASD, LFD, LRFR) the superstruct	ture and			
00/17 07/20	substructure bridge e	lements all inspe		ridges.				
08/17-07/20	MDOT Office of Sta	ate Aid Timber	Inspec	tions and Load Ratings Statewide, Mississippi. Program manage	er			
	responsible for inspec	cting 800 bridge	s for m	ultiple counties in Mississippi. Work also includes performing con	nponent and			
	element level condition	on evaluations, l	oad rat	ing superstructure and substructure, and providing repair details ar	10			
	recommendations.							

Firm employed by Garver & Associates, LLC								
Name Jessica H	albrook, PE			Years of relevant experience with this employer	9			
Title Project M	anager			Years of relevant experience with other employer(s)	9			
Degree(s) / Years /	Specialization		BS /	2007 / Civil Engineering				
Active registration	number / state / expirati	ion date	1803	0 / Arkansas / 12/31/2024				
Year registered	2011	Discipline	Civil	Engineering				
Contract role(s) / br	ief description of respo	onsibilities	Anal	lysis & Load Rating				
Experience dates	Experience and quali	fications relevan	nt to th	ne proposed contract; i.e., "designed drainage", "designed girders"	", "designed			
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates sh	ould c	over the time specified in the applicable MPR(s).				
2011-Current	Jessica Halbrook is th	ne Central Arkan	sas Br	idge Rehab and Load Rating leader at Garver. She manages and pro	ovides			
	QA/QC for bridge rep	pair and load rati	ng pro	jects in Tennessee. Her responsibilities include inspecting in-service	e bridges,			
	reviewing bridge insp	ection reports, d	esigni	ng, and detailing bridge superstructure and substructure elements, c	leveloping			
	creative solutions for	bridge rehabilita	tion, a	ind load rating various types of bridges. For the full extent of Jessic	a's career,			
	she has been involved	l in designing br	idge re	epair solutions. She has been involved in providing bridge repair pla	ans for over			
	100 bridges in Tennes	ssee, Mississippi	, and I	Kansas. Jessica has extensive technical knowledge of structural stee	el beam			
	design, highway bridg	ge design, reinfo	rced co	oncrete design, and prestressed concrete beam design. Her project $\epsilon$	xperience			
	includes designing ac	cording to AASI	110 5	standard specifications and AASHIO LRFD bridge design specific	ations. She			
	is proficient in bridge	design software	such a	as CONSPAN, LPile, RC Pier, MDX, and Consys as well as bridge	evaluation			
	software such as AAS	SHIOW are BrK.	. Sne n	as experience with bridge projects for Arkansas, Mississippi, Missis	ouri, and			
	Tennessee DOTS. Jes	sica has led load	raung	, for superstructure and substructure elements for structures in Arka	insas,			
00/10 06/22	MDOT Office of Ste	pi, Texas, and Ka	allsas.	a Inspections and Load Datings Statewide Mississippi Structu	ral angingar			
09/19-00/22	responsible for evolution	ting inspection	nform	ation to load rate superstructure and substructure elements for on a	nd off			
	system structures Sur	nerstructure type		ide timber stringer and deck precast concrete Choctaw beams	nu on			
	prestressed concrete k	perstructure type	s men ete dec	w rolled steel beams with concrete deck, continuous steel plate gir	der bridges			
	concrete culverts and	l concrete slab (t	raditio	nal and Illinois Bulletin slab) bridges. Non-traditional structures w	ere also			
	required for load ratir	including wi	dened	structures with multiple types of beams and railroad flatcar bridges	s. Load			
	Ratings required an a	dditional rating f	for the	substructures. Structures included substructures such as timber pili	ng with			
	concrete and timber o	aps, concrete co	lumn ŀ	bents, steel pile bents, and various repaired conditions. Load ratings	included			
	using commercial sof	tware AASHTO	Ware	BrR for superstructure evaluation. The load rating method for many	y of these			
	structures is LFR or A	ASD and therefor	re an e	valuation of the bridge element condition is considered in the mode	el.			



08/17-07/20	MDOT Office of State Aid Timber Inspections and Load Ratings Statewide, Mississippi. Structural engineer
	responsible for reviewing existing inspection reports from district engineers or other consultants and
	performing structural rating of superstructure elements for design vehicle, MS legal loads, and emergency vehicles. Load
	ratings were performed with AASHTOWARE BrR, with a few exceptions being load rated in spreadsheets developed in
	house for specific bridge types. Load ratings performed were for bridge types including rolled steel beam, timber stringer,
	concrete pipe culvert, steel pipe culvert, cast-in-place concrete beam, Choctaw precast concrete beam, Contech Bebo arch,
	concrete box culvert, railroad flat cars, continuous steel plate girders, PS Concrete beam, temporary modular grid deck
	bridge and PT Choctaw beam.
06/20-09/22	KDOT 7 <sup>th</sup> Street Bridge Inspections, Repairs, and Load Rating, Wyandotte and Johnson Counties, Kansas.
	Structural engineer responsible for load rating fracture critical deck truss structure after inspection was completed by
	Garver inspection team. Load rating included truss elements and gusset plates utilizing AASHTOWARE BrR. The
	deterioration of the structure was considered to determine repairs required to keep the bridge open and unposted. Bridge
	model was used to model repaired condition as well as current field condition of the structure to maximize the effects of
	the repairs on the structure and achieve the DOT's desired rating for the structure. Also responsible for reviewing structural
	repair details for improving the gusset plate capacities and additional repairs determined necessary in the field during
	inspection.



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

Firm employed by Traffic Commander, LLC								
Name Madeline	e Commander, EIT			Years of relevant experience with this employer 4				
Title Managing Member				Years of relevant experience with other employer(s)	4			
Degree(s) / Years /	Specialization		BS /	2007 / Civil Engineering				
Active registration	number / state / expirati	ion date	EI.00	032164 / Louisiana / N/A				
Year registered	ear registered 2011 Discipline			Engineering				
Contract role(s) / brief description of responsibilities				Visits / Traffic Control				
Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed drainage", "des					", "designed			
(mm/yy–mm/yy)	intersection", etc. Exp	perience dates sh	ould c	over the time specified in the applicable MPR(s).				
01/19 - Present	Estimate project cos	sts and coordinate	ate res	sources needed to provide any and all traffic control services	such as			
	advanced warning s	ignage per LAl	DOTE	D and MUTCD standards, job specific detour signage, lane clo	osures,			
	flagging operations,	, message board	ds, arr	ow boards, and TMAs.				
08/17-12/18	Estimate project cos	sts and coordinate	ate res	sources needed to provide any and all traffic control services,	permanent			
	ground-mounted and overhead signage, and guardrail. Many long-term guardrail projects have T&M repairs							
	throughout as the rails get hit prior to project completion. We had to mobilize to the site quickly to make the							
	repair to keep the ro	repair to keep the roadway users safe.						

#### **17. Firm Experience:**

Firm name	Moffatt & Nichol				Past Performance Evaluation Discipline(s)*Bridge				
Project name	Limited Services Term Contracts for Providin				Load Rati	ngs of	Firm responsibil	ity (prime or sub?	') Sub
	Existing Highway Structures - Region III and Statewide								
Project number		Owner's name Virginia Department of Transportation							
Project location	Virginia				Owner's Proj	ect Manager	Tony Barati, PE		
Owner's address, phone, email 1401 E Broad Street, Richmond, VA 23219, (804) 786-5117, Tony.Barati@VDOT.Virginia.gov								gov	
Services commenced by this firm (mm/yy) 01/09 Total			Total o	Fotal consultant contract cost (\$1,000's)			\$18,000		
Services completed by this firm (mm/yy) 11/18			Cost of consultant services provided by this firm (\$1,000's)				\$3,061		
D '1 1									

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

Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Analysis & load rating

**Moffatt & Nichol**, as a subconsultant under three consecutive contracts, performed load ratings of various types of existing highway structures on a regional and statewide basis for the Virginia Department of Transportation (VDOT). To ensure the highest quality for the load ratings, the team developed QA/QC plans specifically for these contracts. The load ratings were performed in accordance with Departmental policies and procedures and the AASHTO Manual for Bridge Evaluation. Results were reported on the Department's standard load rating summary form along with documentation of the load rater's assumptions. Load ratings were of the superstructure using AASHTOWare BrR (formerly Virtis) software in accordance with LRFR and LFR methodologies. Curved steel

plate girder superstructures were load rated using Descus-I software. Cast-in-place and precast three-sided frames and arches have been load rated using STAAD.Pro and LARSA 4D finite element software and spreadsheet calculations. The geometric and structure data was primarily taken from as-built plans and bridge inspection reports, with data sometimes obtained from District bridge files, site visits and obsolete bridge standards.

Over the course of these contracts, Moffatt & Nichol was tasked with load rating 653 bridge structures, including:

- 131 structures with rolled steel beams and concrete deck
- 86 structures with rolled steel beams and timber deck
- 1 structure with rolled steel beams and corrugated metal deck
- 98 structures with steel plate girders and concrete deck
- 18 structures with curved plate girders and concrete deck
- 54 structures with prestressed concrete beams and concrete deck
- 9 structures with prestressed concrete box beams with concrete decks and asphalt toppings
- 54 structures with precast (Con/span, Bebo and Omega) and cast-inplace concrete frames and arches (including Luten arches)

Team Members Involved: David Wolfe, Eric Vugteveen

- 22 structures with prestressed voided slabs
- 48 structures with reinforced concrete tee beams
- 102 structures with reinforced concrete slab spans
- 24 structures with reinforced concrete voided slab spans
- 1 structure with reinforced concrete through-girders
- 5 structures with glued laminated timber (glulam) slab spans

#### **<u>17. Firm Experience:</u>**

Moffatt & Nichol				ast Perfor	mance Evaluat	ion Discipline(s)*	Bridge	
HDOT General Structural Engineering Servic						Firm responsibili	ity (prime or sub?)	) Prime
Owner's name				Hawaii I	Department of	Transportation		
Hawaii					Owner's Proj	ect Manager	Dean Takiguchi	
Owner's address, phone, email 601 Kamokila Boulevard, Ro					olei, HI 96707	(808) 692-7614, d	ean.takiguchi@ha	waii.gov
Services commenced by this firm (mm/yy) 05/18			Total consultant contract cost (\$1,000's)				\$2,780	
Services completed by this firm (mm/yy)			Cost of consultant services provided by this firm (\$1,000's)				51,000's)	\$2,780
	Moffatt & Nichol HDOT General S Hawaii , phone, email need by this firm (m ed by this firm (mn	Moffatt & Nichol HDOT General Structural Eng Hawaii phone, email 601 Kamokil heed by this firm (mm/yy) ed by this firm (mm/yy)	Moffatt & Nichol         HDOT General Structural Engineering Se         Owner's n         Hawaii         phone, email       601 Kamokila Boulevard         need by this firm (mm/yy)       05/18       7         ed by this firm (mm/yy)       05/21       0	Moffatt & Nichol     P       HDOT General Structural Engineering Services       Owner's name     Owner's name       Hawaii     601 Kamokila Boulevard, Room       phone, email     601 Kamokila Boulevard, Room       need by this firm (mm/yy)     05/18     Total com       ed by this firm (mm/yy)     05/21     Cost of communication	Moffatt & Nichol       Past Perfor         HDOT General Structural Engineering Services         Owner's name       Hawaii I         Hawaii       Owner's name         hone, email       601 Kamokila Boulevard, Room 611, Kapon         hone of by this firm (mm/yy)       05/18       Total consultant consul	Moffatt & Nichol       Past Performance Evaluat         HDOT General Structural Engineering Services       Owner's name         Hawaii       Owner's name         Hawaii       Owner's Proj         phone, email       601 Kamokila Boulevard, Room 611, Kapolei, HI 96707         need by this firm (mm/yy)       05/18       Total consultant contract cost (\$1         ed by this firm (mm/yy)       05/21       Cost of consultant services provide	Moffatt & Nichol       Past Performance Evaluation Discipline(s)*         HDOT General Structural Engineering Services       Firm responsibility         Owner's name       Hawaii Department of Transportation         Hawaii       Owner's name       Owner's Project Manager         Hawaii       601 Kamokila Boulevard, Room 611, Kapolei, HI 96707 (808) 692-7614, d         heed by this firm (mm/yy)       05/18       Total consultant contract cost (\$1,000's)         ed by this firm (mm/yy)       05/21       Cost of consultant services provided by this firm (\$\$	Moffatt & Nichol       Past Performance Evaluation Discipline(s)*       Bridge         HDOT General Structural Engineering Services       Firm responsibility (prime or sub?)         Owner's name       Hawaii Department of Transportation         Hawaii       Owner's Project Manager       Dean Takiguchi         phone, email       601 Kamokila Boulevard, Room 611, Kapolei, HI 96707 (808) 692-7614, dean.takiguchi@ha       Dean Takiguchi         need by this firm (mm/yy)       05/18       Total consultant contract cost (\$1,000's)         ed by this firm (mm/yy)       05/21       Cost of consultant services provided by this firm (\$1,000's)

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

Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Analysis & load rating

**Moffatt & Nichol** was retained by the Hawaii Department of Transportation (HDOT) to conduct load ratings on the states' inventory of concrete bridges/viaducts located in Oahu, Hawaii. The work was divided into three Project Assignment Orders (PAO's) according to structure type; segmental concrete box girder viaducts, post-tensioned concrete box girder bridges, and cast-in-place reinforced concrete box girder bridges. M&N was responsible for load rating a subset of the bridge inventory, generally working on the more complex bridges that fell outside of the capabilities of HDOT's typical load rating software, BRASS.

As the prime consultant to HDOT, M&N led the project and provided Load and Resistance Factor Rating (LRFR) and Load Factor Rating (LFR) reports for each bridge. The load ratings were performed in accordance with the 2nd Edition of the AASHTO Manual for Bridge Evaluation (MBE) with HDOT's "Draft Modifications to the 'Design Criteria for Bridges and Structures Dated August 8, 2014'." Vehicles that were included in the load rating were the AASHTO design HL-93 or HS-20, AASHTO MBE legal vehicles, and HDOT criteria specific emergency and special permit vehicles.

The load rating reports were compiled in the format requested by the client, using standard HDOT tables, and included descriptions of the analytical models and the detailed load rating calculations. Each bridge was rated for its current condition based on the most recent inspection reports. LRFR reports were also provided for the two other condition factors to provide HDOT with rating information if the current condition of the bridge were to deteriorate or be repaired as conditions dictate.

- **PAO-1: Load Rating of Eight Segmental Concrete Bridges:** Moffatt & Nichol was tasked with performing load ratings for eight segmental concrete bridges. Finite element modeling using LARSA 4D was performed to account for time dependent effects of stresses associated with the various stages of construction of the bridges.
- PAO-2: Load Rating of 13 Post-Tensioned Concrete Box Girders: Moffatt & Nichol was tasked to perform load ratings of 13 post-tensioned concrete box girder bridges to include FAST Act EVs. Finite element modeling using CSI Bridge was performed to more accurately model load sharing across the girders.
- PAO-3: Load Rating of 11 Multi-Cell Concrete Box Girders: Moffatt & Nichol was tasked with performing load ratings of 11 multi-cell concrete box girder bridges with complex geometries. Load ratings were performed with a combination of BRASS Girder and finite element modeling using CSI Bridge to account for complex geometries that could not be accommodated in BRASS.

Team Members Involved: David Wolfe, Eric Vugteveen

#### **<u>17. Firm Experience:</u>**

Firm name	Moffatt & Nichol				Past Performance Evaluation Discipline(s)*			Bridge	
Project name	<b>IDIQ for In-Dep</b>	oth Inspection	on of Comple	ex Bridge	Bridges, Statewide Firm responsibilit			ity (prime or sub	?) Sub
Project number	4400009104 Owner's name				Louisiana Department of Transportation and Development			t	
Project location	Louisiana Owner's Project Manager Stephanie Do						Stephanie Dool	ittle	
Owner's address, phone, email 1212 East Highway Drive, Baton Rouge, LA 70802, (225) 379-1329, Stephanie.Doolittle@la.gov								a.gov	
Services commenced by this firm (mm/yy) 03/20 T			Total consultant contract cost (\$1,000's)					\$5,000	
Services completed by this firm (mm/yy) Ongoing			Ongoing	Cost of o	consultant	services provi	ded by this firm (\$	51,000's)	\$800

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

Moffatt & Nichol is performing in-depth bridge inspections on complex and movable bridges throughout Louisiana. As a major subconsultant, Moffatt & Nichol is performing complete in-depth structural, mechanical, and electrical inspections. Bridge types include cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges.

• Site visits

• Analysis & load rating

retrieval & review

• Work Zone Safety

Relevance to LADOTD:

• Plan & document

Moffatt & Nichol has been tasked with performing 28 off-system bridge inspections in District 62. Critical findings were issued, post-repair inspections were performed and evaluated, and previous load ratings were assessed. Field data was collected for updating the load ratings.

Moffatt & Nichol performed two in-depth inspections of the Audubon Bridge, specifically to inspect 136 main cables. Professional rope access techniques were used to safely access each cable and anchorage within arm's reach.

Moffatt & Nichol performed two in-depth, routine, and fracture critical inspections of the Horace Wilkinson Bridge, specifically to inspect the main truss spans above the guardrail. Professional rope access techniques were used to safely access each non-redundant steel tension member. This was the first inspection to be completed without requiring a lane closure.

Moffatt & Nichol performed the in-depth, routine, and fracture critical inspections of the Greater New Orleans Bridges and the Green Bridge, specifically to inspect the main truss spans. Professional rope access techniques were used to safely access each non-redundant steel tension member.

Moffatt & Nichol performed the in-depth inspection of the Luling Bridge, specifically to inspect all bladders at the upper Gensui Dampers and at the lower friction dampers at 72 cables.

Team Members Involved: Chace Hulon, Jeffrey Gazarek, Eric Vugteveen, Iris Leoncio, Christopher Eschenbach, Herodotos Pentas, Jonathan Hird


Moffatt & Nichol				Past Perfor	mance Evaluat	ion Discipline(s)*	Bridge	
New Design Plans and Inspection of Highway				dges Lim	ited	Firm responsibil	ity (prime or sub	?) Prime
<b>Services Contrac</b>	Services Contracts, Region II, Virginia							
Owner's name Virginia Department of Transportation								
Culpeper, Richmond, Fredericksburg, Hampt			Iampton I	Roads Owner's Project Manager Jeffrey K. Li, PI		E		
and Northern	Virginia	-	-			-	-	
, phone, email	1401 E Bi	road St, Richr	nond, VA	. 23219, (8	304) 371-2778,	jiuwang.li@vdot.	virginia.gov	
enced by this firm (mm/yy) 11/02 Total consultant contract cost (\$1,000's) \$5,888				\$5,888				
Services completed by this firm (mm/yy) 06/13 Cost			Cost of	consultant	services provid	ded by this firm (\$	\$1,000's)	\$4,193
	Moffatt & Nicho New Design Plan Services Contrac Culpeper, Ricl and Northern , phone, email need by this firm (m	Moffatt & Nichol         New Design Plans and Inspo         Services Contracts, Region         Culpeper, Richmond, Freco         and Northern Virginia         , phone, email       1401 E Banced by this firm (mm/yy)         ted by this firm (mm/yy)	Moffatt & Nichol         New Design Plans and Inspection of Hig         Services Contracts, Region II, Virginia         Owner's nat       Owner's nat         Culpeper, Richmond, Fredericksburg, F       and Northern Virginia         , phone, email       1401 E Broad St, Richmand, St, Richmand, St, Richmand, St, Richmand, St, Richmand, St, St, St, St, St, St, St, St, St, St	Moffatt & Nichol       I         New Design Plans and Inspection of Highway Bri         Services Contracts, Region II, Virginia         Owner's name         Culpeper, Richmond, Fredericksburg, Hampton I         and Northern Virginia         , phone, email       1401 E Broad St, Richmond, VA         need by this firm (mm/yy)       11/02       Total co         ted by this firm (mm/yy)       06/13       Cost of ted	Moffatt & Nichol       Past Perfor         New Design Plans and Inspection of Highway Bridges Limit         Services Contracts, Region II, Virginia         Owner's name       Virginia         Culpeper, Richmond, Fredericksburg, Hampton Roads and Northern Virginia         , phone, email       1401 E Broad St, Richmond, VA 23219, (8 meed by this firm (mm/yy)         11/02       Total consultant consulta	Moffatt & Nichol       Past Performance Evaluat         New Design Plans and Inspection of Highway Bridges Limited         Services Contracts, Region II, Virginia         Owner's name       Virginia Department of         Culpeper, Richmond, Fredericksburg, Hampton Roads and Northern Virginia       Owner's Proj         phone, email       1401 E Broad St, Richmond, VA 23219, (804) 371-2778,         need by this firm (mm/yy)       11/02       Total consultant contract cost (\$1         ted by this firm (mm/yy)       06/13       Cost of consultant services provide	Moffatt & Nichol       Past Performance Evaluation Discipline(s)*         New Design Plans and Inspection of Highway Bridges Limited       Firm responsibil         Services Contracts, Region II, Virginia       Virginia Department of Transportation         Owner's name       Virginia Department of Transportation         Culpeper, Richmond, Fredericksburg, Hampton Roads and Northern Virginia       Owner's Project Manager         , phone, email       1401 E Broad St, Richmond, VA 23219, (804) 371-2778, jiuwang.li@vdot.         need by this firm (mm/yy)       11/02       Total consultant contract cost (\$1,000's)         ted by this firm (mm/yy)       06/13       Cost of consultant services provided by this firm (\$500's)	Moffatt & Nichol       Past Performance Evaluation Discipline(s)*       Bridge         New Design Plans and Inspection of Highway Bridges Limited       Firm responsibility (prime or sub'         Services Contracts, Region II, Virginia       Firm responsibility (prime or sub'         Services Contracts, Region II, Virginia       Owner's name       Virginia Department of Transportation         Culpeper, Richmond, Fredericksburg, Hampton Roads and Northern Virginia       Owner's Project Manager       Jeffrey K. Li, P         , phone, email       1401 E Broad St, Richmond, VA 23219, (804) 371-2778, jiuwang.li@vdot.virginia.gov       Intel consultant contract cost (\$1,000's)         meed by this firm (mm/yy)       06/13       Cost of consultant services provided by this firm (\$1,000's)

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

#### Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Load rating reviews

Under three consecutive contracts, Moffatt & Nichol provided professional engineering services for new design plans and inspections on highway structures and bridges on projects in Region II which includes Culpeper, Richmond, Fredericksburg, Hampton Roads and Northern Virginia Districts. The services also included load ratings, new bridge design, construction support services, surveying, geotechnical investigations, hydraulic studies and analyses, and roadway design associated with the replacement bridges and maintenance of traffic requirements.

The bridge load ratings were performed using AASHTO BARS, AASHTOWare Virtis, DESCUS, MDX,

STAAD.Pro, and/or hand calculation with the aid of spreadsheets in accordance with the requirements of the AASHTO Manual for Condition Evaluation of Bridges (2008), VDOT Structure and Bridge Division Instructional and Information Memorandum Number S&B-27.6 dated January 7, 2008 and new VDOT policies regarding Load and Resistance Factor Rating (LRFR) bridge load ratings.

Over the course of three contracts, a total of 181 bridge structures were load rated, including:

- 94 bridge structures in the Northern Virginia District consisting of steel, concrete, and/or timber and ranging in complexity from short, simple spans to longer, multiple-span bridges. Bridge types included steel rolled beam and plate girders, concrete arches and prestressed, post-tensioned concrete bridges;
- 6 bridge structures in the Fredericksburg District, including 5 precast concrete Con/span arches and 1 precast concrete Bebo arch;
- 13 bridge structures in the Hampton Roads District with challenging geometry and complicated structural elements including multi-span curved steel and concrete girder bridges with integral pier caps as well as cast-in-place concrete arches; and
- 68 bridge structures in the Culpeper District, encompassing steel beam with timber deck spans with severe deterioration and web holes, steel trusses, slab spans, concrete and steel through girder spans, timber beam, glulam sections, curved plate girders, and PS slabs.

Team Members Involved: David Wolfe, Eric Vugteveen, Iris Leoncio



### **17. Firm Experience:**

Firm name	Moffatt & Nichol	P	Past Performance Evaluation Discipline(s)*Bridge			Bridge			
Project name	Limited Services Term Agree	ement for NE	<b>BIS Insp</b>	ection of ]	Highway	Firm responsibility (prime or sub?)		me or sub?)	Prime
	Structures and Bridges, and Support Structures, Hampton Roads,								
	Virginia								
Project number	Owner's name Virginia Department of Transportation								
Project location	Hampton Roads, Virginia				Owner's Proj	ect Manager	Christ	topher Roberts,	PE
Owner's address	, phone, email 7511 Burb	age Dr, Suffol	lk, VA 2	3435, (757	7) 925-2243, <u>C</u>	hristopher.Roberts	s@VD0	OT.Virginia.go	V
Services commen	enced by this firm (mm/yy) 05/16 Total consultant contract cost (\$1,000's) \$8,286					,286			
Services complet	Services completed by this firm (mm/yy) Ongoing Cost of consultant services provided by this firm (\$1,000's) \$4,430					430			
	. 1 1 1 1 1	1 .	1 1 /T	T' 11' 14		•			

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

Relevance to LADOTD:

• Plan & document retrieval & review

• Site visits

• Analysis & load rating

Since 2016, under two consecutive limited services term contacts, Moffatt & Nichol has provided NBIS safety inspection services for bridges, highway structures, and traffic devices to the VDOT Hampton Roads District. Hampton Roads District has over 1,400 structures in their inventory. Moffatt & Nichol documented deficiencies in an NBIS Inspection Reports which noted structural conditions, NBIS rating conditions, and prioritized repair recommendations. Reports included photographs, soundings, and element level data collection for the National Highway Structures.

Load rating analysis utilizing AASHTOWare Br/R 6.7.0 and/or LARSA 4D software as applicable. Rated structures include:

- I-64 EBL over the East Branch of Hampton River & Boxwood Street Seven Steel Two Girder-Floorbeam-Stringer Spans. Load Rating completed using LARSA 4D.
- James River Bridge (Route 17 Bridge over James River) Structure has been grouped up into 12 variations of concrete beam approach span configurations and 1 truss lift span. All span types will be completed utilizing AASHTO Br/R 6.7.0.
- George P. Coleman Memorial Bridge Structure has been grouped into 3 variations of concrete beam/steel girder approach span configurations, two, 2-span continues with cantilever truss approach spans and two truss swing spans. Concrete beam/steel girder approach spans will be completed utilizing AASHTO Br/R 6.7.0; the steel truss spans, and swing spans will be completed utilizing LARSA 4D.
- Berkley Bridge (Route 264 WBL over E Branch Elizabeth River Bridge) All twenty spans including Bascule spans consist of girder, floorbeam and stringer floor system superstructure. Br/R does not have an option to analyze this framing system superstructure in LRFR. Hence, all the elements analyzed by LFR method using AASHTOWare Br/R. Stringer to floorbeam connections, girder to floorbeam connections were not load rated. The steel grid floor/ grating in the bascule span were not load rated.
- Berkely Bridge (Route 264 EBL over E Branch Elizabeth River Bridge) Bascule span consist of girder, floorbeam and stinger floor system superstructure. Br/R does not have an option to analyze floor system superstructure in LRFR. Hence, all the elements analyzed by LFR method. Prestressed concrete beams spans (6) and steel girder spans (3) will be analyzed using LRFR method. For Bascule span, stringer to floorbeam connections, girder to floorbeam connections were not load rated. The steel grid floor/ grating in the bascule span were not load rated.

Team Members Involved: Billy Jenkins, Iris Leoncio, David Wolfe



### **17. Firm Experience:**

Firm name	Huval & Associates, Inc.		Past Performance Evaluation Discipline(s)*			Bridge		
Project name	<b>Retainer Contract for Bridg</b>	e Preventative M	aintenance (Design, Firm responsibil			orime or sub?)	Drimo	
	Ratings, Rehab)						Finne	
Project number	40000670	Owner's name	LADOTD					
Project location	Louisiana Statewide		Owner's Project Manager Zhengzheng "Jenny" Fu,				' Fu, PE	
Owner's address	, phone, email 1201 Capi	tol Access Rd., Ba	ton Rouge, L	A 70804-9245,	(225)379-1321, zhengz	heng.fu@la.gov		
Services commen	nced by this firm (mm/yy)	08/09 To	otal consultant	t contract cost (S	\$1,000's)	\$8	,750	
Services completed by this firm (mm/yy) 01/18 Cos			Cost of consultant services provided by this firm (\$1,000's)\$4,676				,676	

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

and On-going Task Orders include:

#### Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Analysis & load rating
- LA 70 Sunshine Bridge Painting and Repair, T.O. H.004890.5 / Legacy No. 701-65-1566: Inspection and Scoping for the Repair and Painting of the Sunshine Bridge Approaches.

As the prime firm, HUVAL is responsible for Inspection, Preliminary and Final Plans, Surveying Services, Non-

Destructive Load Testing and Analysis and Load Rating of Bridges, using LRFD and LRFR design. Completed

- LA 70 Sunshine Bridge Phase II, T.O. H.009104: In-depth inspection and rating report, Preliminary and Final Plans for the rehabilitation of the Sunshine Bridge Main Truss Span over the Mississippi River.
- Segment I Ratings and LA 538 Construction Support, T.O. 701-65-9999: Inspection and LRFR as-designed load ratings for five bridge/tunnel sites. Construction Support and Shop Drawing Review for the LA 538 bridge over I-49.
- Jackson Street Bridge over Red River T.O. H.000579.5 / Legacy No. 701-65-1453: In-Depth Inspection and Report, Preliminary and Final Plans for the rehabilitation of the Jackson Street Bridge over Red River. Jackson Street Bridge is a Lift Span Bridge.
- I-49 North (LA 530 LA 170) Segment F Ratings and Construction Support, T.O. H.003499.6: Bridge LRFR load ratings and Construction Engineering Support Services for two bridge sites.
- US 90B / I-910 MacArthur Drive Interchange Completion, T.O. H.002550: Peer Review for the girder design of the on and off ramps associated with US 90 / I-910.

Team Members Involved: Colby Guidry



Firm name	Huval & Associates, Inc.				Past Performance Evaluation Dise	cipline(s)*	Bridge
Project name	<b>Retainer Contract for Bridge Preservation Statewide</b>			vide	Firm responsibility (prime or sub	?)	Prime
Project number	4400002537	Owner's	name	LADOT	TD		
Project location	Louisiana Statewide				Owner's Project Manager	Kurt Brauner, PE	
Owner's address	, phone, email 1201 Capitol	Access R	d., Baton	Rouge, L	A 70804-9245, (225) 379-1933,	Kurt.Brauner@la.g	ov
Services comme	commenced by this firm (mm/yy) 08/12 Total consult			nsultant c	contract cost (\$1,000's)		\$6,000
Services completed by this firm (mm/yy) 07/17 Cost of co			consultan	t services provided by this firm (§	\$1,000's)	\$4,800	

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

As the prime firm, HUVAL is responsible for Preliminary and Final Plans, Surveying Services, Bridge/Structural Inspection and Evaluation, Design Peer Review, Load Rating of Bridges, and Construction Services. Projects performed using LRFD and LRFR design. Completed and On-going Task Orders include:

• Plan & document retrieval & review

Relevance to LADOTD:

- Site visits
- Analysis & load rating

**Bayou Tigre Rack and Pinion Dispute, T.O. H.002751.6:** Independent Review of LADOTD's design, contract plans, specifications, construction-related services, field measurements of rack and gear installation, and related documents, as well as reviewing the contractor's fabrication and installation of the bridge machinery. Following

review, a non-biased position statement regarding the dispute between LADOTD and contractor was issued.

LA 182 & LA 58 Movable Bridge Rehab, T. O. H.010006.5: Preliminary Plans for two movable bridges in Lafourche and Terrebonne Parishes including rehabilitation necessary for bridges to remain in service for 30-40 additional years. Includes structural, mechanical, electrical, architectural, and paint system and concrete surface improvement.

Jeanerette End Wedge Repair, T.O. 009467.5: Site Visit and Evaluation, Preliminary Plans and Final Plans for the rehabilitation of this swing span bridge on LA 671 in Iberia Parish. The intent of this Project is to correct any mechanical and electrical deficiencies of the bridge end wedge system, balance wheels, live load shoes, and center pivot bearing.

**Bayou Lafourche Bridge, T.O. H.000174:** Final Plans, Design Calculations and Structural Monitoring Instrumentation for this slab span bridge structure in Ouachita and Richland Parish. Structural Monitoring Instrumentation is being performed by a Sub-Consultant to Huval. The AccelBridge System was used as the post-tensioning method to achieve the required compression force between the transverse deck panel joints.

KCS Railroad Overpass near Ada, T.O. H.000126: Engineering Construction Services for the KCS Overpass Bridge as well as developing selfcuring admixture (SCA) and underwater self-consolidating concrete (UWSCC) for the trial deck and drilled shafts and providing construction support of using these materials for the KCS overpass bridge.

I-10: Ramah – WBR P/L, T.O. H.010318: Final Plans for phased replacement of eight existing 20ft. approach slabs with new 40ft. reinforced concrete approach slabs along I-10 in Iberville Parish.

Team Members Involved: Colby Guidry



Firm name	Huval & Associates, Inc.				ast Perfor	mance Evaluati	ion Discipline(s)*		Bridge	
Project name	ct name Ascension Parish – 26 Bridge Load Ratings						Firm responsibil	ity (prime or sub?	P) Prime	
Project number	N/A		Owner's name	e	Ascensio	on Parish Gover	rnment			
Project location	Ascension Pari	ish, Louisian	a			Owner's Proje	ect Manager	Joey Tureau, PE		
Owner's address	, phone, email	42077 Chu	rch Point Rd., C	Gonzal	es, LA 703	307, (225) 450-	1013, joey.tureau	@apgov.us		
Services commenced by this firm (mm/yy) 01/21 To			Total o	consultant	contract cost (S	\$1,000's)		\$88		
Services completed by this firm (mm/yy) 04/21 Cos			Cost o	f consulta	nt services prov	vided by this firm	(\$1,000's)	\$88		

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

Relevance to LADOTD: • Plan & document retrieval & review

- Site visits
- Analysis & load rating

Huval & Associates, Inc. (HUVAL) was contracted to provide load rating services for 26 bridges in Ascension Parish. Under this agreement, HUVAL mobilized and provided inspectors and engineers to gather information and data necessary to load rate the bridges. During the load rating process, HUVAL also made recommendations for bridge repairs and modifications which would allow for larger load limits than the current condition allowed. Bridge types inspected and load rated included bridges that are comprised of timber, concrete, steel, concrete decks with timber piles and caps, and other combinations. A few box culverts were also inspected and load rated as part

of the project. Repair priorities were also provided so the Parish could program repairs in an efficient manner.

As part of the rating process, HUVAL was creative in the methods used to analyze the bridges in order to allow some bridges to remain open while repair procedures were developed.

Team Members Involved: Colby Guidry



Firm name	Ga	Garver, LLC			F	Past Performance Evaluation Discipline(s)* Bridg			Bridge		
Project name	MI	<b>MDOT Office of State Aid Complex Bridge In</b>			Inspe	ections and	d Load	Firm responsibi	lity (prir	ne or sub?)	Prime
	Rat	tings		_				Prime			
Project number		Owner's name			me	Mississi	opi Departmer	nt of Transportatio	on		
Project location		Various Locati	ons, Mississipp	oi			Owner's Pro	ject Manager	Harry	Lee James,	PE
Owner's address	, pho	one, email	412 East Woo	odrow Wilsor	n Aver	nue, Jackso	on, MS 39216	, (601) 359-7130, 1	mail@os	sarc.ms.gov	
Services commen	nced by this firm (mm/yy) $09/19$			Total	l consultan	t contract cos	t (\$1,000's)			\$2,130	
Services completed by this firm (mm/yy) 06/22 Co			Cost	of consult	ant services p	rovided by this fir	m (\$1,00	00's)	\$2,130		

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

Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Analysis & load rating

Garver provided inspections on 175 complex bridges that included some that are categorized as fracture critical and performed bridge posting load rating services. These services were completed on time and under budget by Garver's licensed engineers and certified bridge inspectors all in accordance with the National Bridge Inspection Standards (NBIS) as well as all other local specifications.

These inspections and load ratings were performed by Garver's senior staff who each have more than 30 years specializing in these services.

The posting load rating services included some of the most complex bridges in Mississippi. Some were constructed of a mixture of miss matched structural elements in various stages on deterioration. In addition to the standard AASHTOWare Bridge Rating software (BrR) Garver engineers routinely created proprietary posting load rating analysis software to determine accurate bridge load posting information for the safety of the traveling public.

Garver has performed this work for the Mississippi office of State Aid Road Construction since its inception under three contracts two of which are complete, and one is still active.

Team Members Involved: Nick Altobelli, Frank (Blake) Blakemore, Rick Kingery, A.J. Khairi, Jessica Halbrook



### **17. Firm Experience:**

Firm name	Garver, LLC	Garver, LLC			Past Perfor	mance Evaluat	tion Discipline(s)*	:	Bridge	
Project name	KDOT 7th Street Bridge Inspections, Repairs, an				nd Load Ra	ting	Firm responsibil	ity (prir	ne or sub?)	Prime
							Prime			
Project number			Owner's	name	Kansas I	Department of	Transportation			
Project location	Wyandotte and	Wyandotte and Johnson Counties, Kansas				Owner's Proj	ect Manager	Don V	Whisler, PE	
-						_	-			
Owner's address	, phone, email	Dwight D. Ei	isenhower	State Of	ffice Buildi	ng, 700 S.W. H	Iarrison Street, To	peka, K	LS, (785) 296	5-4435,
	-	KDOT#PublicInfo@ks.gov								
Services comme	commenced by this firm (mm/yy) 06/20 Total consultant cont				ontract cost (\$1	,000's)			\$275	
Services completed by this firm (mm/yy) 09/22 Cost of				f consultant	services provi	ded by this firm (\$	\$1,000's	5)	\$275	

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

### Relevance to LADOTD:

- Plan & document
- retrieval & review
- Site visits
- Analysis & load rating

Garver provided a bridge inspection and load rating report for the existing 880-foot deck truss on US 169 northbound (7th Street) bridge and repair design. Upon completion of the inspection and recommendations, Garver evaluated bridge repairs for various service life durations of 5, 10, and 20 years. Repair designs were performed for the locations designated as high priority, with the goal to provide a 5 to 8-year service life until the superstructure can be replaced. Traffic control plans were developed to carry one-lane each direction on the southbound bridge.

Team Members Involved: Rick Kingery, Frank (Blake) Blakemore



Firm name	Garver, LLC	Garver, LLC			Past Performance Evaluation Discipline(s)*Bridge			Bridge	
Project name	<b>MDOT Office of</b>	State Aid Tim	ber Inspect	tions a	nd Load R	atings	Firm responsibil	ity (prime or sub)	') Prime
							Prime		
Project number			Owner's na	ame	Mississi	ppi Departmen	t of Transportation	ı	
Project location	Statewide, Mis	Statewide, Mississippi				Owner's Proj	ect Manager	Harry Lee Jame	s, PE
						-	-	-	
Owner's address	, phone, email	412 East Woo	odrow Wilso	on Ave	nue, Jackso	on, MS 39216,	(601) 359-7130, n	nail@osarc.ms.go	V
Services commen	ced by this firm (mm/yy) 08/17 To			Total	consultant	contract cost (	(\$1,000's)		\$5,945
Services complet	npleted by this firm (mm/yy) 07/20 Co			Cost	ost of consultant services provided by this firm (\$1,000's)			\$5,945	

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

Relevance to LADOTD:

- Plan & document retrieval & review
- Site visits
- Analysis & load rating

Garver provided routine inspections and load rating services for more than 800 timber pile bridges. These services were completed on time and under budget by Garver's licensed engineers and certified bridge inspectors all in accordance with the National Bridge Inspection Standards (NBIS) as well as all other local specifications. These inspections and load ratings were performed by Garver's senior staff who each have more than 30 years specializing in these services.

Each inspection required a QC/QA plan, inspection plan and job hazard analysis, channel cross sections, structural element measurements, and provide elevation and foundation plan drawings as most of these structures did not have and existing structural plans. Garver utilized a "resistance drill" which is a nondestructive means of directly measuring the structural load carrying capacity of timber piling. It produces a graph that can be described as an x-ray of the internal portion of the timber piling.

During this work, Garver was called upon to provide repair plans and procedures as well as provide expert trial testimony for a lawsuit between the Governor of Mississippi and the County Board of Supervisors over bridge closings. Garver has performed this work for the Mississippi office of State Aid Road Construction since its inception under five contracts four of which are complete, and one is still active.

Team Members Involved: Frank (Blake) Blakemore, Rick Kingery, A.J. Khairi, Jessica Halbrook



### moffatt & nichol

### **<u>17. Firm Experience:</u>**

Firm name	Traffic Comman	Traffic Commander, LLC			Past Perfor	mance Evaluat	ion Discipline(s)*		Traffic	
Project name	LADOTD Inventory and Inspection of Sign T				ses Statew	vide	Firm responsibili	ity (pr	ime or sub?)	Sub
							Prime			
Project number	4400017089		Owner's na	ame	LADOT	D				
Project location	Statewide, Louisiana					Owner's Proj	ect Manager	Hayl	lye Brown, Pl	E
-						-	-	-	-	
Owner's address	, phone, email	1212 East Hi	ghway Drive	, Bator	n Rouge, L	ouisiana 70802	2, (225) 379-1500,	, hayly	ye.brown@la	.gov
Services comme	nenced by this firm (mm/yy) 08/17 Total consultant contract cost (\$1,000's)					\$5,945				
Services complet	Services completed by this firm (mm/yy) Ongoing Co			Cost of consultant services provided by this firm (\$1,000's) \$			\$1,615			

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

### Relevance to LADOTD:

• Work Zone Safety

Moffatt & Nichol has the sign truss inspection contract statewide. They subcontracted out Truck Mounted Attenuator rental and operation for the safety of their crew and the traveling public, traffic control plans, and lane closure operations. Traffic Commander provides traffic control services as needed with a qualified crew to facilitate their inspection crews while they performed their scope of work.



#### 18. Approach and Methodology:

The Moffatt & Nichol Team has undertaken a comprehensive review of the advertisement for the Indefinite Delivery/Indefinite Quantity (IDIQ) Contract for Bridge Load Rating - Statewide (Contract No. 4400025865), herein referred to as the "Contract". As such, we have a complete understanding of the Scope of Services described in Attachment A of the advertisement. Our Approach and Methodology for this work, which is explained below, will ensure that our work under individual Task Orders (TOs) is complete, accurate, consistently documented, useful, and in accordance with LADOTD requirements and documents to produce bridge load ratings in accordance with Title 23 of the US Code according to the structure's current conditions and to ensure that the NBIS Oversight Program *Metrics for the Oversight of the National Bridge Inspection Program* (NBIP) are met for load ratings and load postings of Louisiana's bridges.

Moffatt & Nichol and our team members have been performing bridge load ratings for LADOTD, various Departments of Transportation (DOTs) municipalities, and other bridge owners for many years under multiple contracts, many of which have been consecutive, which includes extensive use of AASHTOWare Bridge Rating (BrR) software and Load and Resistance Factor Rating (LRFR) methodology. As such, the Moffatt & Nichol Team has a deep understanding of bridge load rating practice and the support to be provided to bridge owners for load posting decisions. The Scope of Work for this Contract consists primarily of performing structural load rating analysis on an as needed basis for structures throughout the State of Louisiana in accordance with AASHTO *Manual for Bridge Evaluation* (MBE), *LADOTD Bridge Design and Evaluation Manual* (BDEM), and applicable EDSM's of the LADOTD's Engineering Directives & Standards Manual (EDSM). Per LADOTD BDEM Part II Volume 5 - Bridge Evaluation/Rating, load rating analyses will use the Load and Resistance Factor Rating (LRFR) method as set forth in the latest AASHTO MBE, with the only exception granted being for timber that may be rated by LRFR or Allowable Stress Rating (ASR). While BrR will be used to the largest extent possible, structures that cannot be rated using BrR may be included under this Contract and our approach to this work is discussed below. An influence line/surface submittal is required for any structure element not rated using BrR.

### **QUALITY ASSURANCE/QUALITY CONTROL**

For this Contract, the Moffatt & Nichol Team will develop a Quality Assurance/Quality Control (QA/QC) plan that meets or exceeds the LADOTD 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 load rating/posting calculations, documentation, and reports. The QA/QC Plan will be submitted to the DOTD PM within 10 business days of award notification. As a company, Moffatt & Nichol's Quality Management System conforms to the requirements of the international QMS standard ISO 9001:2015. Prior to submission to the DOTD, all documentation will be reviewed for completeness and accuracy and will be revised when necessary. QA/QC checklists and certification that the deliverables meet the DOTD's quality standards will be transmitted with load rating deliverables. As a sub-consultant for Moffatt & Nichol, HUVAL will manage the QA/QC elements for this contract. HUVAL has 34 years of local load rating experience and knowledge. HUVAL, as a trusted provider to the LA DOTD, has continuously held various bridge retainer contracts with the state since 2001. HUVAL routinely performs a QA/QC role for other consulting firms on various projects throughout the country, including QA/QC for underwater inspection retainer contracts for the Department, structural design for contractors nationwide, and bridge design on various bridge projects. With this experience and working in conjunction with the other members of the Moffatt & Nichol Team, HUVAL is in a position to provide all services required for this contract with the utmost reliability and excellence.

#### **DATA COLLECTION**

Before load rating a structure, the current condition, geometric data, and loading data must be collected. Typically, the DOTD will provide access to bridge inspection reports (current bridge and previous as needed), the available bridge plans (As-Builts and/or As-Designed),



repair/rehabilitation/retrofit details that may have been performed, and any field sketches or field load testing data. When the bridge plans are incomplete or cannot be located, the Moffatt & Nichol Team will perform a search to collect useful information such as standard plans that are relevant guided by year built and observable details, any available sketches/drawings of as-built geometry or repair work, any existing rating documents, the Engineer of Record / firm that designed the structure, and the entity that constructed the structure. The sources to be searched are the LADOTD headquarters (General Files, AssetWise Bridge Record Database, FileNet Manager System, Inspection Documents Files server, Section 51-Bridge Maintenance, and Section 25 - Bridge Design), LADOTD District offices, Local Parish governments, engineers/firms/fabricators whose names have been discovered from other sources (previous rating engineer, design engineer, etc.), and the entity who constructed the structure if it is different from the current owner. When some minor data remains incomplete for the structure, Moffatt & Nichol will propose and collaborate as necessary with the DOTD PM (or delegate) to make suitable assumptions about the geometric and structural details and materials. Year built is routinely used to assume material strength for unknown concrete, reinforcing steel, and structural steel in accordance with AASHTO MBE.

A field investigation (not NBIS Bridge Inspection) may be necessary to gather sufficient geometric and structural details to produce an accurate model and analysis of the structure. In such cases where field investigation is justified, the Moffatt & Nichol Team members will perform the field investigation. Depending on the anticipated conditions in the field, the Moffatt & Nichol Team includes LADOTD experienced engineer inspectors knowledgeable in all aspects of bridge access and access equipment as well as traffic control services available from team member Traffic Commander (certified as DBE for NAICS code 713- Temporary Traffic Control and is listed as such on LADOTD's DBE Directory). In special instances, it may be beneficial to obtain field load testing services to (a) confirm the precise nature of the load distribution to the members in order to supplement a refined method of analysis with realistic results, or (b) determine a load rating based on field testing as provided for in Section 8 of AASHTO MBE for structures with a lack of existing as-built information, such as unknown steel reinforcing details. It is our understanding that in cases where site traffic data is unavailable from the bridge file, the LADOTD Transportation Planning and Safety Section should be contacted for current Average Daily Truck Traffic (ADTT) information for the route carried by the bridge. Alternatively, ADTT may be estimated from Average Daily Traffic (ADT) data for the site. The ADTT is used to determine the live load factors for Strength Limit States using the LRFR method for the Legal and Permit load vehicles.

When the DOTD assigns a structure or group of structures to be load rated, the data will be screened by the Moffatt & Nichol Team first to determine whether sufficient data is readily available and second to determine the anticipated complexity of the analysis to identify the appropriate effort and software. Structures will be allocated to the Team members based on their current experience and expertise in order to efficiently provide the necessary load rating. Where feasible, the intent will be to have each Team member broaden its capabilities throughout the duration of the Contract. DBE participation will be tracked to meet the Team's commitment, which will meet or exceed the DOTD goal of 2% for this Contract. Once a TO is executed, progress will be reported to the DOTD on a monthly basis. It is understood that at times the load rating requirements could be adjusted to respond to changes initiated by the DOTD, AASHTO Code requirements, software versions, FHWA, etc. The Moffatt & Nichol Team will endeavor to promptly incorporate these adjustments, even when they occur while a TO is already in progress.

#### **ANALYSIS & LOAD RATING**

The load rating modelling and analysis of each bridge will be for a system structural model and will determine the dead load and live load effects in the members. Secondary and temperature effects will be considered for structures sensitive to such effects. The resulting rating factors (RFs) of the controlling members for the live loads analyzed are used to populate the Bridge Load Rating Summary Sheet and to determine the safe load capacity of the bridge. Attachment A of the advertisement specifies that the live load analysis will be for Design Live Load (AASHTO HL-93) and Legal



Loads (LADOTD State Legal Loads, multi-axle Specialized Hauling Vehicles (SHVs), and Fast Act emergency vehicles (EVs)). Permit Loads and the Louisiana Design Vehicle Live Load 2011 (LADV-11) are not specified for the load ratings for this Contract, however, the Moffatt & Nichol Team will confirm this for the structures in each TO assigned.

Substructures are not rated in BrR and per AASHTO MBE need not be routinely load rated but should be checked in situations where the bridge owner has reason to believe that their capacity may govern the load capacity of the entire bridge. LADOTD BDEM Part II Volume 5 identifies the following substructure elements/types for load rating of existing bridges, which will be rated using appropriate modelling and capacity calculations: Timber and metal pier elements; Hammerhead concrete bent caps; Steel framed cap-column bents; Straddle bents; and Pile bent elements (all pile caps, all timber piles, all piles of scour critical bridges, and piles with other critical conditions).

We understand that assignments may include updating existing bridge BrR and related rating files provided by DOTD, if applicable. These files will be reviewed and updated with current structure conditions and if the provided rating files present problems, the Moffatt & Nichol Team will troubleshoot those problem files and make necessary corrections/changes.

For complex bridges, finite element analysis software (from LADOTD Bridge Section pre-approved software list) may be used to load rate structures, and this category may be divided into the use of general-purpose modeling and bridge specific modules. Moffatt & Nichol has performed load ratings that include the use of LARSA, CSiBridge, and RM Bridge. In such cases, our bridge load rating engineers are responsible for generating a model to obtain the member dead load and live load demands and perform spreadsheet calculations to obtain the member capacities. Capacities are used to calculate rating factors for moment, shear and axial loading and, ultimately, identify the critical members and locations. Beyond our strong modelling experience, we possess the necessary understanding of AASHTO MBE to properly factor the demands and capacities. Additionally, our effective use of spreadsheets allows us to calculate the rating factors using concurrent loading to accurately assess a member's capacity, identify critical members, and clearly convey the results for each load rating vehicle.

For non-redundant steel truss bridges, Moffatt & Nichol Team will rate gusset plates and connection elements based on recent experience utilizing dead and live load demands from finite element models with the capacities and rating factors calculated by MathCAD or spreadsheets.

Once a load rating is generated based upon the current structure condition and deterioration using the appropriate software platform and is reviewed in accordance with the QA/QC Plan, the load rating will be signed by one of the individuals (rater/checker/reviewer) engaged in the QA/QC process for the structure's rating that is a professional civil engineer registered in the state of Louisiana. However, higher level refined analysis may be proposed when BrR rating results in load posting finding. Refinement may consist of routine computations adjusted for actual material properties as determined from field sampling and tests of the materials or may be the use of refined methods of analysis such as 2-D grillage or 3-D finite element models. If load posting is required, the Moffatt & Nichol Team will provide schematic recommendations to improve/eliminate the load posting.

### **DELIVERABLES**

The Final Rating Report package will be submitted to the DOTD Project Manager in electronic file format consisting of the following for each bridge (file naming convention will be established in accordance with the DOTD's guidance and practices):

- All the retrieved information used for the load rating (.pdf file format).
- A rating report for each bridge that will include documentation of the current condition of all deteriorated or rehabilitated structural members as well as any pictures and any assumptions influencing the rating.



• Bridge models created and all calculations in electronic file format (e.g. AASHTO BrR in xml format, MathCAD, spreadsheets, hand calculations). Electronic calculations files will be in editable form.

All electronic file submittals will be delivered by hand or overnight delivery in the form of removable storage, such as CD or USB flash drive, unless delivered by large file transfer or ProjectWise. Email submittals are strictly prohibited for bridge load rating reports and inspection reports.

#### WORKFLOW/SCHEDULE

Moffatt & Nichol will provide the DOTD with a Project Manager in Dr. Pentas; a prominent structural engineer that will maintain his focus and dedication to the success of this contract. The following is the anticipated workflow schedule for a typical Task Order (TO):

- 1A: Preliminary screening of assigned structures for completeness of information, anticipated complexity of analysis, appropriate load rating software, and whether a posting finding is expected. Assign the work and propose Scope and Fee appropriately.
- 1B: Determine whether any of the assigned structures are time sensitive for the DOTD and should be given priority.
- 2A: Develop a schedule for the structures to be load rated that aims for steady progress and ensures on time delivery of the load ratings.
- 2B: Begin in-person data collection at LADOTD, local governments, etc. for structures with incomplete information.
- 2C: Schedule site visits for structures that are anticipated to require field data. Site visits include:
  - Review of previous inspection report, identification of safe staging area at the bridge site for all parties, planned access of all equipment and inspection teams, thorough documentation of the structure field conditions, accurate documentation of geometry, may utilize precision tools (including calipers, D-Meters, dye penetrant and mag particle kits, tapes and levels) and cleaning tools to properly determine the extent of any damage at any given location, and nondestructive testing tools and technology may be used for thorough and accurate documentation to be effectively delivered.
- 2D: Begin load ratings for structures with sufficient information.
- Reassess status and available resources throughout the duration of the task to maintain or accelerate progress as necessary.
- Raters are responsible for the load rating hand calculations, documenting assumptions, generating the load rating report, generating models, running analyses, producing load rating results, and populating the load rating summary. Checkers will begin their work as early as the hand calculation step and no later than after the model input step depending on the complexity of the structure.
- Moffatt & Nichol Team project managers and load rating reviewers will ensure adherence to the QA/QC Plan.
- Load rating deliverables and ongoing progress tracking will be submitted to the DOTD PM monthly.
- Structures with posting findings will be promptly communicated to the DOTD, recommendations will be provided, and potential for a refined analyses may be discussed.



### 19. Workload:

	Past Performance	State project		Remaining
Firm(s)	Evaluation	State project	Project name	Unpaid
	Discipline(s) *	number		Balance**
	Bridge	H.009730.5	In-Depth Inspection of Complex Bridges, Task Order 5	\$121,578
Moffatt & Nichol	Bridge	H.009730.5	IDIQ Contract for Underwater Bridge Inspection, Statewide, Task Order 2	\$2,092,447
	Bridge	H.011331.5	Inventory and Inspection of Sign Trusses, Task Order 2	\$1,059,684
	Data Collection	H.971294.1	LADOTD RIMS	\$40,437
	Bridge	S.P. H. 011235	I-49 South @ Verot School Road Lafayette Parish – Design Phase Supp. #1&2	N/A
	Bridge	S.P. H.004774.5	Kansas Lane-Garrett Road Connector – Supp #1	\$77,657
	Bridge	S.P. H.009497.6	LA 106: Bayou Bouef - Construction Services	\$18,549
	Bridge	S.P. H.011808.5	LA 10: Company Canal – Construction Services	\$27,355
	Bridge	S.P. H.010000.6-2	US 171 Over Calcasieu River – Construction Services	\$39,875
	Bridge	S.P. H.011485.6	LA 336-1 Bayou Teche Bridge @ Breaux Bridge Construction Services	\$88,726
	Bridge	S.P. H. 012650.6	Bridge Repair District 62 - Construction Services	\$25,337
	Bridge	S.P. H.012451.6	Dist. 04 Bridge Repairs - Construction Services	\$20,456
	Bridge	S.P. H.010006.5	LA 58 Petit Caillou Bridge Rehabilitation	\$1,481
Huwal and Associator Inc.	Bridge	S.P. H.002868.5	Ambassador/BNSF Frontage Road Bridges	\$3,812
nuvai and Associates, Inc.	Bridge	S.P. H.003370	I-220/I-20 Interchange IMP & BAFB Access	\$28,168
	Bridge	S.P. H.004791	LA 23: Belle Chasse Bridge and Tunnel (HBI)	\$1,267,978
	Bridge	S.P. H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services	\$182,047
	Bridge	S.P. H.002273.5	Comite Diversion Bridge at LA 19 & LA 19 Railroad – Const. Services	N/A
	Bridge	S.P. H.004100	I-10 CMAR – Segment 1 Design	\$2,416,686
	Bridge	S.P. H.014560.5	LA 94: Vermillion River Bridge Replacement	\$51,705
	Bridge	S.P. H.014747	Southern University Ravine Project	\$230,640
	Bridge	S.P.H.014052-2	LA 151: I-20 Overpass Deck Replacement	\$35,824
	Bridge	S.P.H.012545.5	LA454: Wiggins Bayou Bridge	\$199,025
I I I	Bridge	S.P.H.014646.5	I-20: US 165 East of Garret Road	\$277,003
	Bridge	S.P.H.014052.5	LA 151: Construction Services	\$42,456
Garver, LLC	N/A	N/A	N/A	N/A
Traffic Commander, LLC	Bridge	H.011331.5	Inventory and Inspection of Sign Trusses, Task Order 2	\$60,684



\* 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. If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

\*\* Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.



### moffatt & nichol

### 20. Certifications/Licenses:

Key Personnel	Certifications						
Christopher (Chip) Eschenbach	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2018						
Moffatt & Nichol	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2022						
	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2023						
Jeffrey Gazarek, COSS, COSM	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2020						
Moffatt & Nichol	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2016						
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2019						
Chace Hulon, PE	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2019						
Moffatt & Nichol	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2005						
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2019						
	FHWA-NHI-130091B Underwater Bridge Repair, Rehabilitation and Countermeasures / 2018						
	ATTSSA Traffic Control Supervisor / 2021						
	FHWA-NHI-135047 Stream Stability and Scour at Highway Bridges for Bridge Inspectors / 2018						
	FHWA-NHI-135086 Stream Stability Factors and Concepts / 2018						
	FHWA-NHI-135087 Scour at Highway Bridges: Concepts and Definitions / 2018						
Billy Jenkins, PE	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2013						
Moffatt & Nichol	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2016						
Iris Leoncio, PE	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2021						
Moffatt & Nichol	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2010						
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2016						
Laura Miller, EIT	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2022						
Moffatt & Nichol	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2019						
	FHWA-NHI-130091 Underwater Bridge Inspection / 2018						
	FHWA-NHI-130107A Fundamentals of Bridge Maintenance WBT / 2018						
	FHWA-NHI-135086 Stream Stability Factors and Concepts / 2018						
	FHWA-NHI-135087 Scour at Highway Bridges: Concepts and Definitions / 2018						
Herodotos Pentas, PhD, PE	FHWA-NHI-130056 Safety Inspection of In-Service Bridges for Professional Engineers / 2022						

Key Personnel	Certifications
Moffatt & Nichol	FHWA-NHI-130092 Load and Resistance Factor Rating of Highway Bridges / 2022
	FHWA-NHI-135099 Bridge Inspection Non-Destructive Evaluation Showcase (BINS) / 2010
Mike Russell	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2021
Moffatt & Nichol	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2022
Eric Vugteveen, PE	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2005
Moffatt & Nichol	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2017
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2015
Colby Guidry, PE	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2020
Huval and Associates, Inc.	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 2007
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2009
	FHWA-NHI-130092 Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures / 2009
Nick Kingery, PE	FHWA-NHI-130053 Bridge Inspection Refresher Training / 2010
Garver, LLC	FHWA-NHI-130055 Safety Inspection of In-Service Bridges / 1998
	FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges / 2010
	FHWA-NHI-130091 Underwater Bridge Inspection / 2016



Federal Highway Administration National Highway Institute



**Certificate of Training** 

Christopher Eschenbach

has participated in

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

hosted by

California Department of Transportation

Date:

November 26-December 07, 2018

Hours of Instruction: 67

Location: Sacra

Sacramento, CA

Instructor

Instructor

Raty 7. - Wart

Local Coordinator

Valerie Briggs, Director National Highway Institute



National Highway Institute

U.S. Department of Transportation

Federal Highway Administration

Certificate of Training

# CHIRSTOPHER A. ESCHENBACH

has Successfully Completed

## FHWA – NHI – 130078 FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

## **ILLINOIS DEPARTMENT OF TRANSPORTATION**

Date:

**DECEMBER 6-9, 2022** 

Location: SCHAUMBURG, ILLINOIS

Instructor

Instructor



hosted by

Hours of Instruction: 25

**25 Hours** 

Local Coordinator

Thomas Harman



**Federal Highway** Administration

Certificate of Training

# Christopher Eschenbach

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

Date:

October 28-29, 2021

Location:

Miami, FL

Instructor

Steem mills

Instructor

National Highway Institute



has participated in

hosted by COLLIERS ENGINEERING & DESIGN

Hours of Instruction: 12

Cory Joseph Hogan

Local Coordinator

Thomas Harman



Federal Highway Administration

**National Highway Institute** 



## **Certificate of Training JEFFREY GAZAREK**

has participated in

### FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by LA DOTD/LTRC

Date:	
Location.	

May 12-14, 2020

Web-Conference Course

Instructor Instructor

Allison H. Land

Local Coordinator

Thomas Harman

Hours of Instruction: 18



Federal Highway Administration **National Highway Institute** 



**Certificate of Training Jeffrey Gazarek** 

has participated in

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

hosted by LA DOTD/LTRC

Da	te:
T	

January 4-15, 2016

Hours of Instruction: 67

Location:

Baton Rouge, LA

Instructor

Instructor

Allison H. Landry

**Local Coordinator** 

Valerie Briggs, Director National Highway Institute



Federal Highway Administration

National Highway Institute



Certificate of Training

**JEFFREY GAZAREK** 

has participated in

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

hosted by

LA DOTD/LTRC

Date:

February 26 - March 1, 2019

Hours of Instruction: 25

Location:

Baton Rouge, LA

Instructor

Instructor

Local Coordinator

mis Michael

Michael Davies, Director National Highway Institute



Federal Highway Administration National Highway Institute



**Certificate of Training Chace Hulon, PE** 

has participated in

### FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Boston Society of Civil Engineers Section/ASCE

Date:	

October 1-3, 2019

Location: Bosto

Boston, MA

Instructor

Instructor

Hours of Instruction: 18

unt Kerry

Local Coordinator

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



**Federal Highway** Administration



**National Highway Institute Certificate of Training** Chace Hulon

has participated in Safety Inspection of In Service Bridges NHI Course 130055A

hosted by Iowa State University

Des Moines, IA Location:

Date:

June 20 - July 1, 2005

Instructo

Director, National Highway Institute Federal Highway Administration

Hours of instruction: 80

Coordinator

Director, Office of Professional and Corporate Development Federal Highway Administration



of Transportation

Federal Highway Administration National Highway Institute



**Certificate of Training** 

## **CHACE HULON**

has participated in

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

hosted by

LA DOTD/LTRC

Date:
-------

*February* 26 – *March* 1, 2019

Hours of Instruction: 25

Location:

Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Michael Davies, Director National Highway Institute



**Federal Highway** Administration

**National Highway Institute** 

Certificate of Training

## **Chace Hulon**

has participated in

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

> hosted by Texas Department of Transportation

**Date:** July 17–18, 2018

Location: Fort Worth, TX

Instructor

Instructor

Hours of Instruction: 14

Local Coordinator

Valerie Briggs, Director National Highway Institute

## **PROOF OF TRAINING**

ATSSA TRAINED

THIS CERTIFICATE HEREBY RECOGNIZES THAT

### Chace M Hulon

has attended

### **Traffic Control Supervisor Refresher-LA State Specific**

**Training Course** 

9/10/2021 to 9/10/2025 Training Valid Through

Baton Rouge, LA Location

Kamga Srith Director of Training

Alece, Tetechuar

President, CEO

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



American Traffic Safety Services Association ATSSA.com



**Federal Highway** Administration

**National Highway Institute** 



Certificate of Training **CHACE HULON** 

has participated in

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

hosted by LA DOTD/LTRC

Date:

October 22, 2018

Location:

Baton Rouge, LA

Instructor

Instructor

Hours of Instruction: 6

**Local Coordinator** 

Valerie Briggs, Director **National Highway Institute** 

0

Federal Highway Administration

## National Highway Institute

**Certificate of Training** 

## **Chace Hulon**



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:

1 hours

*Date: <u>10/21/2018</u>* 

Valerie B

Valerie Briggs, Director National Highway Institute

0

Federal Highway Administration

## National Highway Institute

**Certificate of Training** 



## **Chace Hulon**

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

Hours of Instruction:

1 hours

*Date:* <u>10/20/2018</u>

Valerie Birgos

Valerie Briggs, Director National Highway Institute



Federal Highway Administration National Highway Institute



Certificate of Training Billy R. Jenkins

has participated in

## FHWA-NHI 130053 Bridge Inspection Refresher Training

hosted by

### HDR Engineering, Inc.

Date:

August 16-18, 2016

Hours of Instruction: 18

Location:

Raleigh, NC

Instructor

Instructor

natitoro /

**Local Coordinator** 

Valerie Briggs, Director National Highway Institute



National Highway Institute

Certificate of Training

Billy R. Jenkins, PE

has participated in

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

hosted by

Gannett Fleming, Inc.

**Date**: October 14-25, 2013

Paltimore MD

Location: Baltimore, MD

Instructor Instructor

Hours of Instruction: 67 Hours

**Local Coordinator** 

Richard Barnaby, Director National Highway Institute





Federal Highway Administration National Highway Institute



**Certificate** of Training

## Iris Leoncio

#### has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Collins Engineers, Inc.

Date: March 16-18, 2021

Hours of Instruction: 18

Location:

Virtual Delivery, IL

Digitally signed by Callein A. Cala A MU int MacDougall, P.E. Date: 2021.03.26 17:22:52 -04'00

Instructor

Tean Hulbard

Finn K. Hubbard 2021.03.22 06:25:03 -05'00'

Instructor

Drew Garceau

Local Coordinator

Thomas Harman



Federal Highway Administration National Highway Institute

**Certificate of Training** 

Iris Leoncio

has participated in

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

hosted by

AECOM Technical Services, Inc.

Date: August 20, 2010

Hours of Instruction: 80 CEU's: 60

Location: Baltimore, MD

Instructor

Instructor

oordinator bcal

**Richard Barnaby, Director National Highway Institute** 





Federal Highway Administration National Highway Institute



Certificate of Training

## **IRIS LEONCIO**

has participated in

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

hosted by
ACEC/MW

Date:

March 1-4-2016 CK

Location: Laurel, MD

Instructor

Instructor

Hours of Instruction: 25

Local Coordinator

1011.0

Valerie Briggs, Director National Highway Institute


Federal Highway Administration National Highway Institute



**Certificate of Training** 

## Laura Míller

has Successfully Completed

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

hosted by

SDR Engineering Consultants

D	ate:	
-		

January 10-21, 2022

Location:

Tallahassee, FL

Instructor

Hours of Instruction: 67

Local Coordinator

Thomas Harman



Federal Highway Administration National Highway Institute



**Certificate of Training** 

## LAURA MILLER

### has participated in

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

hosted by

### LA DOTD/LTRC

Date:

February 26 – March 1, 2019

Hours of Instruction: 25

Location:

Baton Rouge, LA

Instructor

Instructor

Local Coordinator

ichae

Michael Davies, Director National Highway Institute



Federal Highway

National Highway Institute



**Certificate of Training** 

### Laura Miller

has participated in

### FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

### Terracon Consultants, Inc.

Date: Location: June 05-08, 2018 Rocky Hill, CT Hours of Instruction: 24

Rocky IIII, CI

Instructor

Instructor

Local Coordinator

Volue

Valerie Briggs, Director National Highway Institute

0	

Federal Highway Administration

## National Highway Institute

**Certificate of Training** 



# Laura Miller

has participated in

NHI Course No. FHWA-NHI-130107A

**Fundamentals of Bridge Maintenance WBT** 

hosted by

### **National Highway Institute**

Location: Web-Based Course

Hours of Instruction:

7 hours

*Date:* <u>4/20/2018</u>

Valerie B

Valerie Briggs, Director National Highway Institute

0	

Federal Highway Administration

## National Highway Institute

**Certificate of Training** 



# Laura Miller

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:

1 hours

*Date:* <u>10/18/2018</u>

Valerie B

Valerie Briggs, Director National Highway Institute

0	
	 _

Federal Highway Administration

## National Highway Institute

**Certificate of Training** 



# Laura Miller

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

Hours of Instruction:

1 hours

*Date:* <u>10/18/2018</u>

Valerie Birgos

Valerie Briggs, Director National Highway Institute



Federal Highway Administration National Highway Institute



Certificate of Training

### Herodotos Pentas

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date:

August 22-26, 2022

Location:

Ridgeland, MS

Instructor

Instructor

Marie V allerton

Local Coordinator

homas Harman

Hours of Instruction: 34



Federal Highway Administration National Highway Institute



# Certificate of Training HERODOTOS PENTAS

has participated in

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

hosted by

LA DOTD/LTRC

Date:

October 18-21, 2022

Hours of Instruction: 24

Location: Baton Rouge, LA

homas

Instructor

William Edberg

Instructor

Allson H. Landry

Local Coordinator

homas Harman



**Federal Highway** Administration

**National Highway Institute** 

Certificate of Training **Herodotos Pentas** 

NATIONAL HIGHWAY

Training Solutions for Transportation Excellence

has participated in

### **NHI Course No. 130099 - Bridge Inspection Non-Destructive Evaluation Showcase (BINS)**

hosted by

LA DOTD/LTRC

Hours of Instruction: 6

Date: **December 7, 2010** 

Location: **Baton Rouge, LA** 

Instructor

Instructor

**Local Coordinator** 

**Richard Barnaby, Director** National Highway Institute

**Federal Highway** Administration

# National Highway Institute Certificate of Training

# **Mike Russell**

has Successfully Completed

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

hosted by

## Hawaii Department of Transportation

Date:

December 6-17, 2021

Hours of Instruction: 67

Location:

Honolulu, HI

Want

Instructor

Local Coordinator

Thomas Harman

Instructor



national highway institute



### Federal Highway Administration

National Highway Institute

Certificate of Training

## Mike Russell

has Successfully Completed

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

hosted by

Arkansas Department of Transportation

Date:

June 21 – 24, 2022

Hours of Instruction: 25

Location:

Little Rock, AR

Instructor

Instructor

Local Coordinator



Thomas Harman



Federal Highway Administration



National Highway Institute Certificate of Training Eric Vugteveen

has participated in Safety Inspection of In-Service Bridges hosted by

Norfolk Public Works-Design

Location: Norfolk, VA

Date: July 11-22, 2005

Instructor

Moges Ayele

Director, National Highway Institute Federal Highway Administration Hours of instruction: 80

Coordinato

Director, Office of Professional and Corporate Development Federal Highway Administration



Federal Highway Administration National Highway Institute



**Certificate of Training** 

Eric Vugteveen

has participated in

### FHWA-NHI 130053 Bridge Inspection Refresher Training

hosted by

Whitman, Requardt & Associates, LLP and Moffatt & Nichol



December 4 – 6, 2017

Hours of Instruction: 18

Location:

Richmond, VA

Instructor

Instructor

Local Copydinator

Valerie Briggs, Director National Highway Institute



Federal Highway Administration National Highway Institute



**Certificate of Training** 

Eric P. Vugteveen

has participated in

FHWA-NHI-130078 Fracture Critical Inspection of Steel Bridges

hosted by

Whitman, Requardt & Associates, LLP

Date:

Location:

May 26-29, 2015 Richmond, VA

Instructor

Steven I milles

Instructor

Hours of Instruction: 25

Local Coordinator

Valerie Briggs, Director National Highway Institute



Federal Highway

National Highway Institute



**Certificate of Training COLBY GUIDRY** 

has participated in

### FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by LA DOTD/LTRC

Date:

January 21-23, 2020

Hours of Instruction: 18

Location:

Baton Rouge, LA

Instructor Instructor

Allison Lana Local Coordinator

Michael

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



Federal Highway Administration



National Highway Institute Certificate of Training

## **Colby Guidry**

has participated in

Safety Inspection In-Service Bridges

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Location:

Mobile, Alabama

Date: May 14 - 25/2007

Instructor

Director, National Highway Institute Federal Highway Administration Hours of instruction: 72

oordinator

Director, Office of Professional Development Federal Highway Administration



Federal Highway Administration National Highway Institute

**Certificate of Training** 



Fracture Critical Inspection Techniques for Steel Bridges

**Colby Guidry** 

has participated in

hosted by LA DOTD/LTRC

Date: April 27-30, 2009

Location: Baton Rouge, LA

1

mos Instructor

Instructor

Hours of Instruction: 21

Local Coordinator

Richard Barnaby, Director National Highway Institute



Federal Highway Administration National Highway Institute

**Certificate of Training** 



**Colby Guidry** 

has participated in

## Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures

hosted by

**Date:** December 7-10, 2009

1

Location: Baton Rouge, LA

Instructor

Instructor

Hours of Instruction: 24

andr

Local Coordinator

Richard Barnaby, Director National Highway Institute



Federal Highway Administration National Highway Institute



**Certificate of Training** 

## **Richard Kingery**

has Successfully Completed

### FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Iowa LTAP

Date:

Location:

February 08-10, 2022

Ames, IA

Instructor

Instructor

Hours of Instruction: 18

Local Coordinator

Thomas Harman



Federal Highway Administration

# National Highway Institute Certificate of Training Richard S. Kingery

### has satisfactorily completed training in Safety Inspection of In-Service Bridges

### conducted by Michael Baker, Jr., Inc.

Location: Jefferson City, Missouri

Date: November 30, 1998 - December 11, 1998

Instructor

Director

National Highway Institute

Hours of instruction: 60

Continuing Education Units: 6.0

Coordinator

Federal Highway Administrator



**Federal Highway** Administration

National Highway Institute

Certificate of Training



has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by Missouri Department of Transportation

Date:

March 2-5. 2010 Location: Jefferson City, MO

Instructor

Instructor

Hours of Instruction: 24

atint Mailens

**Local Coordinator** 

**Richard Barnaby, Director National Highway Institute** 





Federal Highway Administration National Highway Institute

Certificate of Training

**Rick Kingery** 

has participated in

### FHWA-NHI 130091 Underwater Bridge Inspection

hosted by

Missouri Department of Transportation

Date: Location: October 18-21, 2016 Jefferson City, MO Hours of Instruction: 24

Terencell, Browle

Instructor

Instructor

BRIAM DILMORTH

**Local Coordinator** 

Valerie Briggs, Director National Highway Institute





### **<u>21. QA/QC Plan and/or Work Plan:</u>**

To be submitted within 10 business days of the award notification to the consultant.



### 22. Sub-consultant information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Huval and Associates, Inc.	727 West Pont Des Mouton Rd., Lafayette, Louisiana 70507	Colby Guidry, PE cguirdy@huvalassoc.com	(337) 234-3798
Garver, LLC	3900 N. Causeway Blvd. Ste. 1200, Metairie, LA, 70002	Richard Kingery <u>RSKingery@GarverUSA.com</u>	(512) 485-0020
Traffic Commander, LLC	3206 N. Turnbull Drive Metairie, Louisiana 70002-5732	Madeline Commander maddie@trafficcommander.com	(504) 416-9446



### 23. Location:

This section intentionally left blank.



### Contact:

Dr. Herodotos Pentas, PE Moffatt & Nichol 301 Main Street, Suite 800 Baton Rouge, LA 70801 Tel: (225) 610-1597 Email: hpentas@moffattnichol.com

moffattnichol.com