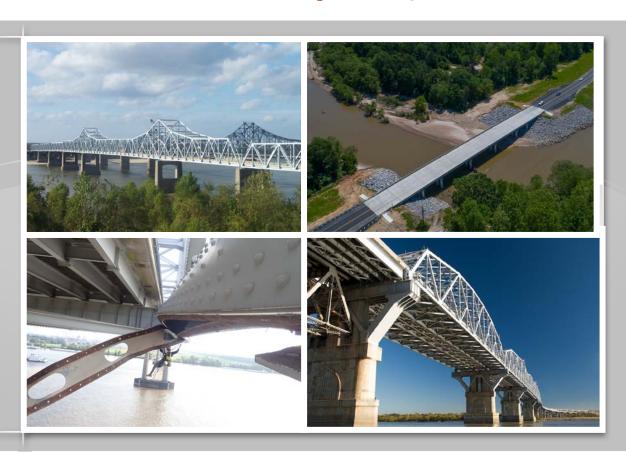


Louisiana Department of Transportation and Development

IDIQ CONTRACTS FOR BRIDGE PRESERVATION STATEWIDE

CONTRACT NOS. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, and 4400024189

Request for Qualifications









(Revised March 1, 2022)

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1.	Contract title as shown in the advertisement	IDIQ Contracts for Bridge Preservation
2.	Contract number(s) as shown in the advertisement	Contract Nos. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, 4400024189
3.	State Project Number(s), if shown in the advertisement	
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Modjeski and Masters, Inc.
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0000570
6.	Prime consultant mailing address	1055 St. Charles Ave., New Orleans, LA 70130
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1055 St. Charles Ave., New Orleans, LA 70130
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Zolan Prucz, PhD, PE, Senior Vice President (504) 524-4344, zprucz@modjeski.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Zolan Prucz, PhD, PE, Senior Vice President (504) 524-4344, zprucz@modjeski.com
10	This is to certify that all information contained herein is accurate and true, and that the team presently has	

Prime consultant name: Modjeski and Masters, Inc.

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: May 10, 2022

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):	<u>Firm(s)' %:</u>
Vectura Consulting Services, LLC	6.65%
Marrero Couvillon & Associates, LLC	4.00%

12. Past Performance Evaluation Discipline Table:

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

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New %20Evaluation%20Disciplines.pdf. (same link as in the advertisement)

Evaluation Disciplines	% of Overall Contract	M&M (Prime)	Vectura (DBE)	Fenstermaker	MCA (DBE)	Fugro	WJE	Moffat & Nichol	Meyer	BDI	KGC
Bridge	68%	82%			5%		5%	5%		2%	1%
Road	13%	80%		10%					10%		
Environmental	2%			100%							
Traffic	7%		95%	5%							
Geotech	4%					100%					
Survey	3%			100%							
Other	3%	60%			20%				20%		
Percent of Contract	100%	67.96%	6.65%	6.65%	4.00%	4.00%	3.40%	3.40%	1.90%	1.36%	0.68%

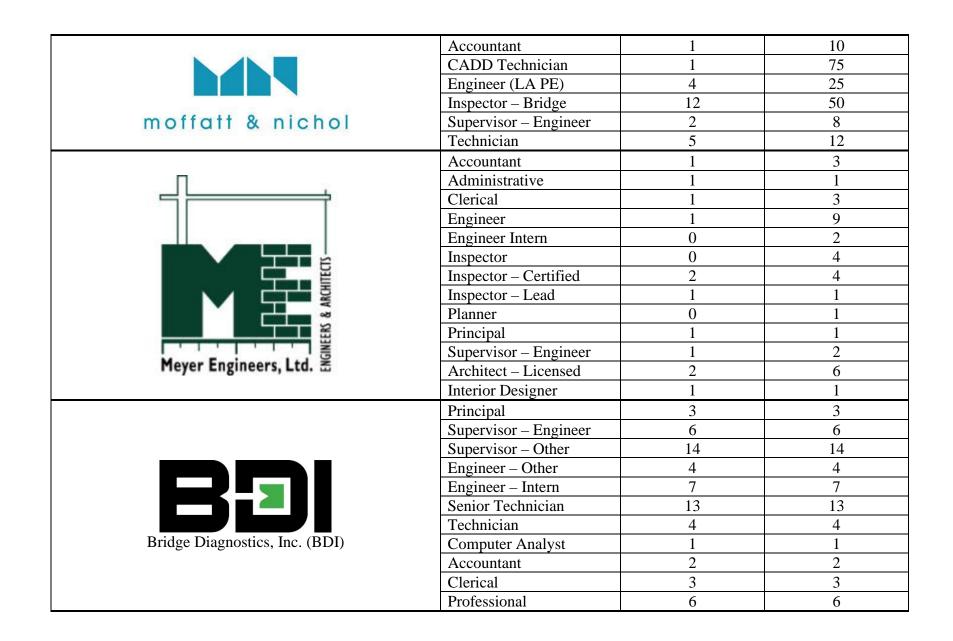
13. Firm Size:

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

 $\underline{http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job\%20Classifications\%20with\%20Descriptions.pdf}$

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	4	7
	Supervisor - Eng	9	15
	Supervisor - Other	1	11
	Engineer	3	6
	Engineer - Other	2	21
MODJESKI and MASTERS	Engineer Intern	4	19
	Professional	0	1
	Senior Technician	1	3
	Technician	1	2
	CADD Technician	2	9
\\	Supervisor	2	2
CONSULTING SERVICES. LLC	Engineer	3	5

	Duin ain al	1	1
	Principal	1	1
	Supervisor Engineer	1	2
	Engineer	2	2
MARRERO COUVILLON & ASSOCIATES Engineering & Construction	Designer	2	2
мдикениз « Соющими	Architect	1	1
	Principal	1	1
	Supervisor-Engineer	2	5
	Engineer Intern	2	2
_	Geologist	1	2
Tugro	CADD-Operator	1	2
	Driller	1	3
	Technician	4	8
	Administrative	1	2
	Clerical	1	2
	Party Chief	0	3
	Surveyor	0	2
	CADD Technician	1	4
	Clerical	2	7
	Engineer	0	3
	Engineer Intern	2	28
	Engineering-Aide	0	1
WIL	Engineer - Other	2	28
	Geologist	0	2
	Principal	4	45
	Professional	4	19
Wiss, Janney, Elstner Associates, Inc.	Senior Technician	1	58
,, ; ===========================	Supervisor - Arch	0	1
	Supervisor - Eng	1	13
	Supervisor - Other	3	113
	Technician	1	7



	Biologist/Wetlands	0	1
	CADD Technician	0	4
	Clerical	0	2
	Engineer	1	14
	Environmental Pro	2	4
	GIS Analyst	0	2
	Inspector	0	3
	Inspector-Certified	0	2
	Inspector-Lead	0	3
FENSTERMAKER	Instrument Man	0	4
	Party Chief	0	5
	Engineer Intern	0	9
	Principal	1	6
	Rodman	0	4
	Senior-Technician	2	9
	Supervisor-Eng	3	4
	Supervisor-Other	0	4
	Surveyor	2	3
	Technician	1	7
kac	Sr. Tech	3	3
Environmental Services inc.	Principal	1	1

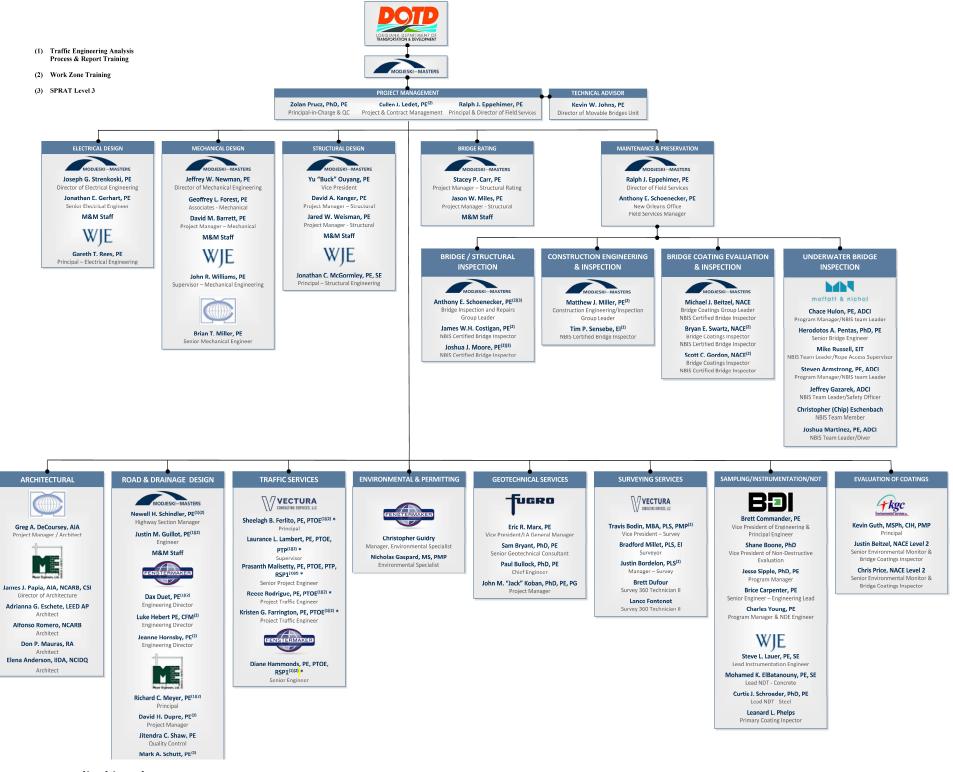
(Add rows as needed)

14. Organizational Chart:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13.

If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.

It is acceptable to use an 11x17 format for Section 14.



15. Minimum Personnel Requirements:

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

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	Zolan Prucz	Modjeski and Masters, Inc.	Civil PE #24019	LA	3/31/2024
1	Ralph J. Eppehimer	Modjeski and Masters, Inc.	Civil PE #23251	LA	3/31/2023
2	Zolan Prucz	Modjeski and Masters, Inc.	Civil PE #24019	LA	3/31/2024
2	Ralph J. Eppehimer	Modjeski and Masters, Inc.	Civil PE #23251	LA	3/31/2023
	Zolan Prucz	Modjeski and Masters, Inc.	Civil PE #24019	LA	3/31/2024
3	Yu Ouyang	Modjeski and Masters, Inc.	Civil PE #26117	LA	9/30/2023
	Cullen J. Ledet	Modjeski and Masters, Inc.	Civil PE #33222	LA	9/30/2023
4	Stacey P. Carr	Modjeski and Masters, Inc.	Civil PE #26796	LA	9/30/2022
4	Jason W. Miles	Modjeski and Masters, Inc.	Civil PE #37773	LA	9/30/2023
	Jeff W. Newman	Modjeski and Masters, Inc.	Mechanical PE #31815	LA	9/30/2023
5	Geoffrey L. Forest	Modjeski and Masters, Inc.	Mechanical PE #45721	LA	9/30/2023
	John R. Williams	Wiss, Janney, Elstner Associates, Inc.	Mechanical PE #44300	LA	9/30/2022
6	Jonathan E. Gerhart	Modjeski and Masters, Inc.	Electrical PE #43052	LA	3/31/2023
6	Gareth T. Rees	Wiss, Janney, Elstner Associates, Inc.	Electrical PE #40754	LA	9/30/2022
	David A Kanger	Modjeski and Masters, Inc.	Civil PE #29048	LA	9/30/2022
7	Jonathan C. McGormley	Wiss, Janney, Elstner Associates, Inc.	Civil PE #43912	LA	3/31/2024
8	Newell Schindler	Modjeski and Masters, Inc.	Civil PE #24130	LA	3/31/2024
8	David H. Dupre, P.E.	Meyer Engineers, Ltd.	Civil PE #23422	LA	3/31/2024

	Dax Douet, P.E.	C. H. Fenstermaker & Associates, L.L.C.	Civil PE #30170	LA	9/30/2022
	Eric Marx, PE	Fugro USA Land, Inc.	Civil PE #31479	LA	3/31/2023
0	Sam Bryant, PhD, PE	Fugro USA Land, Inc.	Civil PE #40695	LA	9/30/2022
9	Paul Bullock, PhD, PE	Fugro USA Land, Inc.	Civil PE #33812	LA	9/30/2022
	Jack Koban, PhD, PE, PG	Fugro USA Land, Inc.	Civil PE #36060,	LA	3/31/2023

Firm en	nployed by	Modjeski and Masters, Inc.							
Name	Zolan Pr	rucz, PhD, PE		Years o	f relev	ant experience	ce with this emplo	oyer	39
Title	Senior V	ice President & Principal		Years o	f relev	ant experience	ce with other emp	loyer(s)	7
Degree	(s) / Years	/ Specialization	PhD	1984	Civil	, Structural			
	M			1981	Civil	, Structural			
	В				Civil				
Active registration number / state / expiration date 24				9	LA	3/31/2024			
Year re	gistered	1988 Discipli	ne Civi						
Contrac	ct role(s) / l	orief description of responsibil	ities						
Dr. Pru	cz is the pr	incipal-in-charge of the Design	n Section fo	r the Nev	w Orle	ans office. A	s such he oversee	s the design and	d
prepara	tion of plan	ns and specifications for all pro	ojects, studi	es and ra	tings o	f bridges. I	Or. Prucz has work	ked on bridge re	elated
projects	s since join	ing Modjeski and Masters, Inc	. in 1983. I	His assign	nments	ranged from	design, evaluatio	on and retrofit of	f fixed and
	_	o evaluations of effects of vess	-			_	_		
		hydraulic and scour analysis					1 0	1 0	
	_	n of Bridge Piers Against Ship				•			
		er states from 1985 to 1991, ar							
		dges". One of his specialties is							on
		lges. Dr. Prucz will serve as P							
	ence dates	Experience and qualification		-	-		_	•	-
` .	/–mm/yy)	"designed intersection", etc.						* *	(s).
11/20 -	Ongoing	H.014564 Bayou Barataria	_	_		-	•		
		In 2020, Modjeski and Maste	-	_	•	-			
		A two-barge tow reportedly s				_	•	C	_
		through the channel. Subsequ	• ,	0 1		1		1 1	
eliminating the only access across for the popul							· ·	-	
	initial damage inspection in addition to n						L		•
		separate task order, M&M de							
		requirements for the propose							
		This study obtained and anal							
		purposes of developing and e	_			_		providing a tem	porary
		fender repair design. Dr. Pru	cz served a	s the Prin	icipal-i	in-Charge for	this project.		

6/10 - 12/15	Gilmerton Bridge Replacement, Chesapeake, Virginia VDOT M&M engineered a plan that involved
	building a new lift bridge above and below the existing structure, with the original bascule bridge remaining
	functional until the float-in of the new span. M&M completed preliminary and final design of the new 335-foot
	long and 85-foot wide lift span – one of the widest lift spans ever. Eight 12-foot diameter drilled shafts were
	designed to reach 120 feet below ground and are some of the largest ever constructed using the oscillating
	method. Dr. Prucz provided technical assistance and guidance in this project.
10/09 - 12/11	EJ&E Swing Bridge 522 Replacement. Joliet, IL Canadian National Railway: The Illinois River Bridge,
	No. 552, was originally built as four 154-foot fixed through truss spans and was converted to a vertical lift
	bridge 80 years ago. Under the provisions of the "Truman-Hobbs Act" of 1940, the United States Coast Guard is
	funding alteration of the Illinois River Bridge, No. 552, to provide a 300-foot marine opening. M&M designed
	the replacement vertical lift span of 348 feet with a maximum lift vertical clearance of 56 feet. M&M also
	collected relevant data, evaluated alternatives, established design criteria, cost estimates, prepared project report,
	and provided the final vertical lift bridge design. M&M provided construction management services. Dr. Prucz
	provided QA/QC support and technical guidance for this project.
09/07 - 08/09	Houma Vertical Lift Bridge to Freeport, TX Union Pacific Railroad: The existing railroad swing bridge at
	Freeport, TX is a 288 foot long through truss span and the existing railroad vertical lift located at Houma, LA is
	a 258 foot long through truss span with two 29 foot tower spans. The swing span is to be removed and replaced
	with the relocated and rehabilitated vertical lift span. The lift span, towers, counterweights and machinery are to
	be relocated. New piers and approach structures will be provided at Freeport and a complete electrical system
	replacement will be provided. M&M provided preliminary design services, final structural, electrical and
	mechanical design services and prepared permit applications for this project. Dr. Prucz administered QA/QC and
	technical guidance of this project.
01/01 - 04/04	Florida Ave Bridge Replacement. New Orleans, LA Board Of Comm., Port Of New Orleans: The existing
	Strauss Trunnion Bascule Bridge crossing the Inner Harbor-Navigation Canal at Florida Avenue provides a 91-
	foot opening for marine traffic. Funding was provided to replace the bridge with a new vertical lift bridge
	providing a 300-foot marine opening. The replacement bridge is at a low-level grade carrying one railroad track
	and two-roadway lanes plus two sidewalks. The lift span is 340 feet long and has a maximum lift clearance of
	156 feet. Dr. Prucz applied his expertise in the QA/QC support area and offered technical guidance for this
	project.

Firm employed b	y Modjeski and Masters, Inc.					
	J. Eppehimer, PE		Years of relevant experience with this employer	39		
Title Sr. Vice	President & Director of Field Service	es	Years of relevant experience with other employer(s)	1		
Degree(s) / Year	s / Specialization	BS	1982 Civil Engineering	•		
	on number / state / expiration date	2325	· ·			
Year registered 1989 Discipline (1			
Contract role(s)	brief description of responsibilities					
* *	*	ence v	with Modjeski and Masters, Inc. and is the Director of Field S	Services. He		
has vast experier	nce in all aspects of field services incl	uding	new bridge construction, safety and maintenance inspections	s of existing		
			response to bridge accidents. He has been the construction p			
			echnical advisor on a number of significant movable bridge	. •		
primarily railroa	d bridges. Mr. Eppehimer's technical	specia	alties are the field inspection of all types of bridge, field mon	itoring of		
_	= = = = = = = = = = = = = = = = = = = =	_	dges, and the repair and retrofit of movable bridges.	_		
Experience dates	Experience and qualifications rele	evant	to the proposed contract; i.e., "designed drainage", "design	ed girders"		
(mm/yy-mm/yy)	"designed intersection", etc. Expe	rience	dates should cover the time specified in the applicable MPR	L(s).		
12/15 - 03/20	UPRR 305.45 Angelton Sub San B	Bernar	rd Bridge. Sweeney, TX Union Pacific Railroad (2016-2018)			
	1		ical lift bridge that will replace an existing swing span bridge			
			sion of the Union Pacific Railroad. M&M worked with the			
			schedule, and provided construction support for the project. Th	_		
			"Mr. Eppehimer served as the Principal-in-Charge for this proj	ect.		
02/12-ongoing	2007-062-RB Lapalco Bridge Rep	,				
	1 0		pairs (structural, mechanical, electrical and architectural), and r			
		_	odjeski and Masters provided the development of plans and spe			
			was the Project Manager for all the construction engineering su	ipport		
11/16 5/17	services associated with this project. 1/16–5/17 Port of New Orleans Seabrook Bridge Floor System Replacement. New Orleans, LA					
11/16–5/17		_	• • •	la a terraggia a		
the Seabrook Railroad Bridge for the Port of			ans and specifications to replace the railroad floor system between the trusses of			
			* *			
minimize the impacts to the rail and marine traffic as well as maintain the span balance throughout cor Eppehimer was Principal-in-Charge for this project.				uction. Wil.		
02/17-5/17			ink Pin Joints Emergency - Construction Services. New Or	leans, I.A.		
J=/11 J/11		nitial investigation and developed emergency repair contract documents for the partially				

	failed 2nd Link joint on the Seabrook Strauss Bascule Bridge, the Port of New Orleans called upon M&M to provide				
	Construction Support Services for the project. M&M reviewed all Contractor RFIs, shop drawings, and procedure				
	submittals for the project. M&M also provided on-site construction inspection services throughout the repair effort.				
	Mr. Eppehimer was Principal-in-Charge for this project.				
03/09-01/10	Bridge 73.31 across Bayou Boeuf, BNSF Railway, Amelia, LA				
05/07 01/10	Mr. Eppehimer served as the Construction Project Manager for M&M, overseeing the replacement of an older,				
	single- track railroad, through-plate girder swing span with a new through-plate girder swing span. He made monthly				
	project site visits during construction, including during the span change-out period. He also provided construction				
	engineering office support and supervised the full-time, on-site Resident Inspector on the project.				
02/07-07/07	Vertical Lift Span Relocation, Union Pacific Railroad, Houma, LA to Freeport, TX				
02/07 07/07	Mr. Eppehimer served as the Construction Project Manager overseeing the disassembly and relocation of an existing,				
	single- track railroad vertical lift span from Houma, LA to Freeport, TX where it was rebuilt with modifications to				
	replace an older through-truss swing. He made monthly visits during construction to either project site, as				
	appropriate, including during the span change-out period in Texas. He also provided construction engineering office				
	support and supervised the full-time, on-site Resident Inspector.				
01/01-05/09	Florida Avenue Bridge Replacement, Port of New Orleans, New Orleans, LA				
	Mr. Eppehimer served as the Construction Project Manager for M&M, overseeing the replacement of an older				
	bascule span carrying a double-track and two vehicular roadway lanes with a new vertical lift span carrying a single-				
	track and two vehicular roadway lanes, to improve the width of the navigation channel. He made periodic fabrication				
	shop visits, including to South Korea, and monthly project site visits during construction, including during the span				
	change-out period. He also provided construction engineering office support and supervised the on-site Resident				
	Engineer and inspection team.				
1996-1997	Casco Bay Bridge Replacement, Maine DOT, Portland, ME				
	The project called for the replacement of a double-leaf bascule bridge over the Fore River with a structure consisting				
	of a 285 ft. double-leaf bascule span. Mr. Eppehimer served as a Technical Advisor to the Maine DOT during				
	construction of the bascule spans. This assignment included making structural and machinery shop visits to observe				
	fabrication and shop assemblies and tests, and providing a full-time presence, on-site, during the movable span and				
	machinery erection period.				

	nployed by	Modjeski and Mas	ters, Inc.										
Name	Cullen J	. Ledet, PE	,		Years o	of relev	ant ex	xperienc	e with t	his emp	loyer		20
Title	Senior A	ssociate			Years o	of relev	ant ex	xperienc	e with o	other em	ployer(s))	0
Degree	(s) / Years	/ Specialization		BS	2000	Civil	Engi	neering					
Active	registration	number / state / exp	iration date	3322	2	LA	9/3	30/2023					
					k Zone T	raining	g Com	npliant					
	gistered	2007	Discipline	Civil	-								
		orief description of re											
		n employed as a Desi											
_		vo summers with the	_	-			_	_		•			
	•	oad bridges. Mr. Led		l desig	ns, plans	s, and s	pecifi	ications	for a nu	mber of	projects	both for	•
		well as complex proje											
-	ence dates	Experience and qua			-	-				-	-	_	•
_ `	/-mm/yy)	"designed intersecti							specifie	d in the	applicabl	le MPR((s).
3/17 - o	ngoing	LA 1 – Port Allen I		,			•						
		The ongoing project											
		Intracoastal Canal W											
		shoulders and will be and 2 - 10' shoulders											
		shoulders (I-10 EB I		• , ,									
		wide median barrier		•								•	
		roadway will be carr			_						•		
		approximately 2,700	*	_					_				•
		haunched three span											
		approach spans. Mr											
		Elevation drawings											
12/15-0	2/17	H.010620 US 90 fro		kwy to	Ambas	sador	Caffro	ey Pkwy	y - BNS	F Front	age Road	Bridge	<u>s,</u>
		Lafayette Parish, L											
	M&M provided an independent QC review of the frontage road bridges over the BNSF Railroad. The bridges									•			
		included constructio											
		pile footing foundati	ons. Mr. Ledet	perfor	med the	review	of the	structui	ral plans	and deta	ails at eve	ery subm	ittal
		milestone.											
1													

6/12 -12/16	S.P. H.009933: MacArthur Drive Interchange. Harvey, Louisiana LADOTD
	The MacArthur Interchange Project consisted of the addition of two new ramps to the Westbank Expressway near
	MacArthur Drive, as well as the demolition of two existing ramps. M&M was responsible for the substructure design
	for Ramps 7 and 8 in a complex urban setting which included steel pile footings and reinforced concrete columns.
	M&M also provided construction related engineering support services. Mr. Ledet provided peer review services of
	the original design. Mr. Ledet detailed the flared reinforced concrete columns and provided construction related
	engineering services for this project.
01/14-06/15	US 90 (Future I-49) from Albertsons Pkwy to Ambassador Caffrey Pkwy, Lafayette Parish, LA
01/11.00/10	As a member of the Design-Build team with C.H. Fenstermaker & Associates, M&M provided an independent QC
	review of the structures over the BNSF Railroad and Albertsons Parkway. Both bridges included construction of
	various continuous precast prestressed concrete girder Spans supported on bent columns and pile footing foundations.
	The structures over the BNSF Railroad included a phased sequence of construction. Mr. Ledet performed the review
	of the structural plans and details at every submittal milestone.
12/01 - 12/02	Illinois River Bridge. Elgin, Joliet & Eastern Railway Company (Devine, Illinois): The Illinois River Bridge was
12/08 - 10/09	originally built as four 154-foot fixed through truss spans. About 1932, Span 2 was converted to a vertical lift span
12,00 10,00	and the adjacent spans fitted with lifting towers, counterweights, and an electro-mechanical operating system,
	providing a 120-foot clear opening. Under the provisions of the "Truman-Hobbs Act" of 1940, the USCG is funding
	alteration of the bridge to provide a 300-foot marine opening. The replacement vertical lift span will be 348 feet long
	and have a maximum lift vertical clearance of 56 feet. M&M collected relevant data, evaluated alternatives,
	established design criteria, cost estimates, prepared project report, and provided the final design. Mr. Ledet designed
	and detailed the framing for the operator house as well as the pier grillage structures.
09/08-02/11	S. P. 701-65-1098 Replacement of LA3249 (Well Road) over I-20, Monroe, LA
02/00/02/11	This Project was the replacement of the Well Road Overpass using accelerated construction methods to construct
	replacement spans within the interchange R/W and over a weekend remove existing spans and install new spans.
	Mr. Ledet was the point of contact for Modjeski and Masters, Inc. He designed and detailed deck drainage;
	calculated quantities and generated construction cost estimate; construction services.
06/01-08/14	S.P. 700-18-0014 Huey P. Long Bridge Widening at New Orleans, LA
	This Project widens the existing bridge roadways through the widening of river piers using conventional and post-
	tension concrete, two new truss lines and 43' roadways to replace existing 18' roadways. The Project construction
	cost is \$1.2B. This Project was a major complex design involving adding truss lines while maintaining existing
	traffic. Mr. Ledet assisted in the design and detail of the main river pier widening; designed and detailed plans and
	generated specifications for various components of the superstructure and substructure of the approaches, including
	steel and prestressed concrete girders; provided construction engineering support services for approaches contract.
	steer and presuessed concrete griders, provided constitution engineering support services for approaches contract.

Firm em	ployed by	Modjeski and M	lasters, Inc.					
Name	Kevin W.	Johns, PE			Years of rele	is employer	24	
Title	Movable I	Bridge Business 1	Unit Director		Years of rel	evant experience with ot	her employer(s)	0
Degree(s	s) / Years /	Specialization		MS	1998	Civil Engineering		
				BS	1996	Civil Engineering		
Active re	egistration	number / state / e	expiration date	04420	04	North Carolina	12/31/2022	
35101		Alabama	12/31/2022	1340	3	New Hampshire	2/28/2023	
PEN.003	30631	Connecticut	1/31/2022	24GE	E05232700	New Jersey	4/30/2022	
20136		Delaware	6/30/2022	0922	13	New York	1/31/2022	
78268		Florida	2/28/2023	91792	2PE	Oregon	6/30/2022	
55231		Massachusetts	6/30/2022	PE06	0642	Pennsylvania	9/30/2022	
44386		Maryland	9/12/2022	3137	1	South Carolina	6/30/2022	
6201056	5533	Michigan	8/3/2023	04020	054007	Virginia	10/31/2022	
51126		Minnesota	6/30/2022					
Year reg	gistered	2002	Discipline	Civil				

Contract role(s) / brief description of responsibilities

Mr. Johns is the Director of the Movable Bridge Business Unit with more than 20 years of experience. In the past 5 years, he has served as Project Manager or Task Leader on 28 movable bridge projects, 19 railroad projects and 9 movable railroad projects. Eight of these projects have had a construction cost of over \$100 million. He has served as the Project Manager on the St. Joseph River Bascule Bridges Rehabilitations, Houghton/Hancock Vertical Lift Bridge Rehabilitation, and the Cheboygan Rolling Bascule Rehabilitation for MDOT. Mr. Johns also was the Deputy PM and Lead Structural Engineer for the Elizabeth City Bascule Bridge Replacement Project, which was completed under an accelerated design schedule. He served in a similar capacity for the in-depth rehabilitation of a swing span bridge in Wilmington, DE; for rehabilitation and tower heightening of a vertical lift bridge in Philadelphia, PA; and for the design of the Gilmerton Bridge, a new large vertical lift bridge in Chesapeake, VA. Mr. Johns is currently the Project Manager or Deputy Project Manager for the replacement of three movable bridges in Sacramento, CA; Secaucus, NJ; and Milford, CT.

Experience dates	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",
(mm/yy-mm/yy)	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/14 - 10/17	Cheboygan Bridge Rehabilitation Cheboygan, Michigan Michigan DOT: M&M was contracted to perform
	engineering services for the electrical, mechanical and structural rehabilitation of the double leaf bascule bridge and
	its approaches at Cheboygan, MI. M&M prepared preliminary and final structure plans as well as the mechanical and
	electrical plans to rehabilitate the aging structure that was built in 1940. Mr. Johns served as the Project Manager and

	oversaw the structural design. He was in direct responsible charge of communication with MDOT, coordination of subconsultants, monitoring of the schedule and budget, and overall direction of the project. Although not explicitly part of the Scope he established biweekly calls with MDOT keep them informed of the project status and discuss any relevant issues. With the project team he facilitated weekly project meetings to ensure coordination among disciplines. During construction Mr. Johns is responsible for QA of responses to structural submittals and RFI's from the contractor.
09/13 – 12/14	Portage Lake Lift Bridge Rehab. Houghton, Michigan Michigan DOT: M&M was selected by the MDOT for the rehabilitation design of the Portage Lake Lift Bridge. The bridge, which connects the cities of Houghton and Hancock, is the heaviest and widest double-deck vertical lift bridge in the world. M&M will lead the structural, electrical and mechanical design of the massive 269' long, 54' wide lift span. The lift span, which can be raised up to 100', features an upper and lower deck capable of carrying a total of eight lanes of US Highway 41 and M-26. M&M will also implement homeland security recommendations, provide structural repairs to the operator's house, and design upgrades to the barrier gates. Mr. Johns served as the Project Manager for the project and oversaw the structural design. He directed the efforts of the structural designers including the repairs to the operator's house from the high-load hit, repair of corroded floor system members, repair details for damaged railing, steel and concrete details for a support platform for new barrier gates, concrete spall repair in the deck and substructure; riprap scour protection; the construction cost estimate; and the project special provision. He coordinated the efforts of the
04/11 - 01/14	mechanical, electrical and structural designers. He also coordinated the repairs with the Traffic Management Plan. Elizabeth City Bridge Replacement. North Carolina DOT (Elizabeth City, North Carolina): As part of a Movable Bridge Services Agreement for North Carolina Dept. of Transportation, M&M has been contracted to replace the eastbound and rehabilitate the westbound bridges at Elizabeth City. The westbound span is a double leaf Hopkins trunnion bascule bridge. The new eastbound bridge is a double leaf trunnion bascule bridge. Mr. Johns served as both the Deputy Project Manager and the Lead Engineer on this Eastbound Bridge replacement and Westbound Bridge rehabilitation project. He was in direct responsible charge of the design of the new bascule girders, floorsystem, grid deck, counterweight, reinforced concrete bascule pier, and pipe pile footings. He was responsible for QA of the final plans, specs and cost estimate. He coordinated the efforts of and reviewed submission material for multiple subconsultants including the architect, geotechnical engineers, surveyors and fixed approach span designers. He facilitated regularly schedule project meetings to ensure coordination between all disciplines. He regularly communicated directly with NCDOT to keep them aware of the project status. During construction Mr. Johns was responsible for QA of responses to structural submittals and RFI's. Mr. Johns also developed repair details for a crack in the existing bascule girder web.

		Iodjeski and Masters, Ir	ıc.								
Name		Kanger, PE						h this employer		26	
Title	Associate - Structures				Years of			h other employe	er(s)	0	
Degree(s	s) / Years / S	pecialization		MS	1996		Engineering				
				BS	1995	Civil I	Engineering				
Active re	egistration n	umber / state / expiration		29048 Civil		LA	9/30/2022				
	Year registered 2000 Discipline										
		ef description of responsi									
		Iodjeski and Masters, Inc									
		novable, railroad and higl									
		n construction support. M									
		itoring, construction supp									
		xpressway. Mr. Kanger is									
		ia for the Huey P. Long B									
Experien		Experience and qualifi						ainage", "desigr	ned girders", "designed	l intersection"	
(mm/yy-		etc. Experience dates									
11/20 - 0	Ongoing	H.014564 Bayou Bara									
		In 2020, Modjeski and									
				204' steel swing span of the Bayou Barataria Bridge while traveling through the channel. erable and remained in the open position eliminating the only access across for the population							
				Inc. performed an initial damage inspection in addition to mechanical and electrical inspection task order, M&M developed and prepared a Navigation Impact Study in accordance with USCO							
		requirements for the pr									
				nd future navigation uses and needs for the purposes of developing and evaluating alternativing a temporary fender repair design. Dr. Prucz served as the Principal-in-Charge for this proje							
11/16 - 0)naoina	West Larose Vertica									
11/10 - (Jugoing	reviewing shop drawing									
		during the construction								cai Liit Bridge	
12/16 – 0	Ongoing	4th Street Harvey Re								vilitation of the	
12/10-0	Oligollig										
				he Harvey Canal in Harvey, LA. This was a continuation of previous design work orders in ibilitation to extend the structure life by 40 years. Work included replacing the rolling lift tread							
		erating system. Structural, Mechanical, and Electrical rehabilitation of a double rolling leaf									
		bascule bridge was par								ic roming iou	
05/16 - 0	Ongoing	US 11 Bridge Rehabi						**	• •		
22,20		M&M led a team provi								e life of the US	
		11 North and South ba									
				t posting of the bridge, the operator's house will be enlarged, and the span converted to h							

	operation. The South bascule span is only opened manually (with a crane) when access is needed to service electrical utility lines crossing the lake. The span toes will be replaced to improve the structural capacity to eliminate the weight posting of the bridge. The operator houses will be rehabilitated to retain their historic appearance. The bascule spans comprise the largest spans (149') of the overall 4.7-mile bridge over Lake Pontchartrain. Mr. Kanger is the project manager for this project.
04/06 – 02/14	Galveston Causeway Railroad Bridge Replacement. Galveston County (Galveston, Texas): The Galveston RR Bridge is a 384-foot vertical lift span replacing the existing 125-foot bascule span and portion of the existing concrete arch spans to provide 300' horizontal navigation clearance by the order of USCG under the provisions of Truman-Hobbs Act. The project involves a complicated foundation arrangement, removal and anchorage of the existing arch structures, special truss and tower design, and challenging construction issues. Mr. Kanger provided preliminary tower design and field site survey for this project. He also provided construction support activities.
01/01 – 05/02 02/09 - 02/09	Fort Madison Bridge Replacement. BNSF Railway Company (Ft. Madison, Iowa): BNSF Railway requested M&M to value engineer their 10+ year old rehabilitation design of the Fort Madison Bridge across the Mississippi River. M&M reviewed the foundation design, painting, type of drive system and usage of high performance steel to determine if the design could be modified to reduce the potential construction cost. M&M was able to identify some cost savings alternatives that were now available after the original design work, which was performed in 2003. Mr. Kanger provided the design of substructure and foundation, tower top, and operator's house.
09/04 - 05/06	Electrical Rehabilitation of Louisville Street Bascule Bridge & East Pearl River Swing Bridges. LADOTD (Monroe and St. Tammany Parishes, Louisiana): M&M prepared the electrical plans with specification notes for the rehabilitation of the Louisville Street Bridge over the Ouachita River in Monroe, LA and the East Pearl River Bridge over the Pearl River in LA. Both bridges were in need of an electrical rehabilitation including lighting, gears and generator replacement. M&M also provided construction support services. Mr. Kanger provided structural evaluation, field inspection and details for submarine cable replacement for this double-leaf bascule bridge.
12/01 – 12/02 10/09 – 03/12 12/08 – 10/09	Illinois River Bridge. Elgin, Joliet & Eastern Railway Company (Devine, Illinois): The Illinois River Bridge was originally built as four 154-foot fixed through truss spans. About 1932, Span 2 was converted to a vertical lift span and the adjacent spans fitted with lifting towers, counterweights, and an electro-mechanical operating system, providing a 120-foot clear opening. Under the provisions of the "Truman-Hobbs Act" of 1940, the USCG is funding alteration of the bridge to provide a 300-foot marine opening. The replacement vertical lift span will be 348 feet long and have a maximum lift vertical clearance of 56 feet. M&M collected relevant data, evaluated alternatives, established design criteria, cost estimates, prepared project report, and provided the final design. Mr. Kanger designed and detailed the vertical lift bridge foundation and towers for this project. Upon this project becoming active as a result of ARRA stimulus funding, Mr. Kanger assisted with construction support activities.
07/05 – 03/06	West Lake Swing Bridge - No.220.62. Union Pacific Railroad (Lake Charles, Louisiana): Bridge No. 220.62 is a 222-foot throughtruss swing bridge across the Calcasieu River. The project includes structural, mechanical and electrical modifications to provide for remote control of this mainline railroad bridge. The project provides complete new bridge electrical and PLC-based control systems and the conversion of manually operated machinery to a modern variable speed hydraulic drive for operating the bridge from the remote bridge tender's house on shore. Structural modifications will provide for supports for new electrical and mechanical equipment bungalows on the swing span. Center wedges, end wedges and rail lifts are also being converted to hydraulic operation. Closed circuit TV will provide for visual monitoring of the miter rail joints and marine traffic. Mr. Kanger provided design of swing bridge mechanical and operator house and platform replacement.

16. Staff Experier						
	Modjeski and Masters, Inc.	T				T = 0
Name Yu Ouya	O.	Years	30			
Title Vice Pres		Years of	of relevant exp	erience w	ith other employer(s)	2
Degree(s) / Years /						
MS / 1990 / Civil I		ineering		.982 / Civ	il Engineering	
Active registration	number / state / expiration date		26117	LA	9/31/2023	
Year registered	1994 Discipline		Civil			
Contract role(s) / b	rief description of responsibilities					
Mr. Ouyang has be	en with Modjeski and Masters, Inc. since 1991	1, and has	s vast bridge ei	ngineering	g experience, ranging from	n conventional
designs to special p	projects of high complexity, and from feasibility	ty studies	to constructio	n service	s. He specializes in the de	sign of fixed and
movable highway a	and railroad bridges, and the rating and rehabil	itation of	existing bridg	ges. His ex	spertise also extends to an	alysis of complex
bridge structures, v	essel collision risk assessment and protection	systems,	seismic design	i, analysis	and retrofit, and fatigue	evaluations. He
	perience in managing engineering and design					
managing technica	l teams and subconsultants. His hands-on proje	ect manag	gement has led	to succes	ssful and on-time complet	ion of large and
highly technical pr	ojects.				•	-
Experience dates	Experience and qualifications relevant	to the p	roposed cont	ract; i.e.,	"designed drainage",	"designed girders"
(mm/yy-mm/yy)	-					
3/17 - ongoing	LA 1 – Port Allen Bridge Replacement, Por					
777 311831118	The ongoing project consists of replacing the	,	•		nd bridge structures on LA	1 over the
	Intracoastal Canal Waterway (ICWW). The pr					
	and will be approximately 2,680' long. The p	roposed I	A 1 NB Bridge	e will cons	sist of 2 - 12' travel lanes a	nd 2 - 10' shoulders
	(LA 1 NB roadway), a permanent 2' wide med	dian barri	er and 1 - 12' ti	ravel lane	with 2 - 6' shoulders (I-10	EB Exit Ramp
	roadway). The Exit Ramp and LA 1 NB road	way will	be separated by	a perman	ent 2' wide median barrier	until the LA 1 NB
	Bridge will bifurcate where the LA 1 NB road					
	structures. The LA 1 NB Bridge and I-10 EB					
	LA 1 NB and LA 1 SB Bridges will consist of					
	the ICWW and prestressed concrete LG girder				ves as Project Manager for	this project.
09/17 - 09/21	LA 16 over Tangipahoa River, Tangipahoa					
	M&M developed all necessary topographic su					
	between LA 51 and LA 1054, in Amite City, I					
	east and west sides of the bridge. It was anticipated to the bridge of the bridge.					
	roadway and bridge. The plans were prepared				0 0 1	<u> </u>
	Design and Evaluation Manual (BDEM), DO					
	Bridges, DOTD Road Design Manual, and DO					
	3 of BDEM. Construction Related Engineering	g Support	was provided	and is curi	renuy on-going. Ivir. Ouya	ng served as the
	Project Manager for this project.					

09/17 - 03/21	US 61 at Thompson Creek, West Feliciana Parish, LA LADOTD
	M&M provided all necessary preliminary and final plans for the rehabilitation of the northbound bridge and replacement of the
	southbound bridge on US 61 over Thompson Creek, between LA 10 and LA 964, near St. Francisville, LA. It was anticipated
	that traffic would be maintained during the construction of the new southbound bridge with temporary two-way traffic on the
	rehabilitated northbound bridge. The project also included the design and detailing of adding a helper bent to the northbound
	bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and
	Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges,
	DOTD Road Design Manual, and DOTD Hydraulics Manual. QC/QA was provided in accordance with Part 1, Chapter 3 of
	BDEM. Construction Related Engineering Support was provided and is currently on-going. Mr. Ouyang served as the Project
	Manager for this project.
09/17 - 02/20	LA 1064 at Little Natalbany River, Livingston Parish, LA LADOTD
	M&M developed all necessary topographic surveys, preliminary and final plans for this bridge replacement project on LA 1064,
	near LA 43 and Hoover Road, in Albany, LA. This project included reconstruction of the approach slabs and roadway on the east
	and west sides of the bridge. It was anticipated that the roadway would be closed during construction and a detour route was
	detailed. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and
	Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges,
	DOTD Road Design Manual, DOTD Hydraulics Manual, and DOTD Location and Survey Manual. QC/QA was provided in
	accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was also provided. Mr. Ouyang served
	as the Project Manager for this project.
6/12 –12/16	S.P. H.009933: MacArthur Drive Interchange. Harvey, Louisiana LADOTD
	The MacArthur Interchange Project consisted of the addition of two new ramps to the Westbank Expressway near MacArthur
	Drive, as well as the demolition of two existing ramps. M&M was responsible for the substructure design for Ramps 7 and 8 in a
	complex urban setting which included steel pile footings and reinforced concrete columns. M&M also provided construction
00/01 00/14	related engineering support services. Mr. Ouyang was Principal-In-Charge for this project.
02/01-08/14	S.P. 700-18-0014 – Huey P. Long Bridge Widening, Jefferson Parish, LA
	The widening project for the H.P. Long Bridge included new vehicular approaches on both sides of the Mississippi River
	consisting of three lanes plus shoulders and ramps. The project entailed replacing existing approaches while maintaining traffic
	through the corridor. Included elements: existing foundations, pile and drill-shaft supported piers, prestressed concrete girder
	spans and multiple-span steel continuous units. Mr. Ouyang provided the primary analysis of the combined main span trusses under numerous loading conditions and stages of construction.
08/09-12/11	S.P. 700-08-0109: LA 160 Bridges – Caney Creek and Bodcau Bayou LADOTD
08/09-12/11	M&M developed final plans, permit drawings, construction cost estimate and special provisions for a new integral bridge design
	and analysis developed for the LADOTD. The two subject bridge sites that cross Caney Creek and Bodcau Bayou in Bossier
	Parish, LA were the first two fully integral bridges in the state. Strain gauge and other testing was conducted to follow the
	behavior of the bridge design over a period of time. Mr. Ouyang served as the project manager and supervised a team of
	engineers that performed the LUSAS analysis, bridge design and detailing, and construction services.
	engineers that performed the LOSAS analysis, oritige design and detaining, and constitution services.

	nployed by	Modjeski and Mas	ters, Inc.									
Name	Jeffrey V	V. Newman, PE	,		Years of	releva	ant e	experience	e with this	employe	er	30
Title	Senior As	ssociate – Director of	Mechanical		Years of	releva	ant e	experience	e with oth	er employ	yer(s)	4
	Engineer	ng										
Degree((s) / Years	/ Specialization		BS	1987	Mecha	nanic	cal Engine	ering			
Active r	registration	number / state / exp	iration date	0031	815	LA	9/	/30/2023				
Year reg	gistered	2005	Discipline	Mec	hanical							
	` '	orief description of re										
		Senior Associate and								_		
_		es a wide variety of h				_					-	
		tion and design of mo	_		•			•				
		e industry has paved										
		d author for the first							_			
1 0	_	or the recently award								_		_
		design and design-by						-			•	
		ge replacement, and I										
		d cross-discipline de and under budget for							sure clear	and conci	ise dia docuii	iems are
	nce dates	Experience and qua							"decione	d draina	ge" "designe	d girders"
1	mee dates mm/yy)	"designed intersecti				-			_		-	•
03/13-0		H.009479 LA 1 W									,	· /
05/15/0		rehabilitation plans										
		30-40 years for this							•			_
		significantly upgrad		_	•	•		•		_		
		the preparation of p	-	-		_	-		-		-	-
11/13-o	ngoing	H.010016 US 11 B										
	-	commonly known a										
		was considerable da										
		improvement needs							•	•		ire
		rehabilitation plans							echanical	design of	this project.	
10/13-O	ngoing	H.010882 4th Stre	et Harvey Brid	lge Re	ehabilitation e	on. H	Harv	vey, LA				

	Categorized as a high priority project, the electrical, structural and mechanical rehabilitation of the 4th Street
	Bridge in Harvey, LA became a top priority for M&M. The bridge, a double leaf rolling bascule movable
	bridge, is approximately 40 years old and has recently experienced reliability problems. The rehabilitation was
	done to allow the structure to operate reliably for an additional 30-40 years with regular maintenance. Mr.
	ė į
10/12 – 11/16	Newman was the Engineer of Record for the plans and specifications for the mechanical design of this project.
10/12 - 11/10	Fore River Bridge, Quincy, MA Mass DOT. As part of the design/build team led by the joint venture of
	White-Skanska-Koch and Parsons, M&M provided the final mechanical and electrical design for the Fore River
	Bridge lift span. The replacement of the Fore River Bridge, carrying Route 3A, is a signature project in the
	Massachusetts Accelerated Bridge Program. The new proposed vertical lift bridge provides a horizontal
	navigable channel of 250' and a vertical clearance of 175' in the open position. Extensive rehabilitation was
	required for the approaches to the proposed structure in addition to demolition of the existing temporary bridge
	and associated fender system. In addition to the mechanical and electrical services for the lift bridge
	replacement, M&M was also tasked with the vessel collision analysis and fender protection design. Mr. Newman
	is the Project Manager for mechanical and electrical design and construction support. This project was
	formatted as a Design-Build delivery requiring highly experienced engineering and management over a fast-
	paced schedule. Mr. Newman oversees all electrical and mechanical work and coordinates with structural design
	including the overall fabrication and erection schedule.
11/10-04/15	H.005044 Rehabilitation of Houma Navigation Canal Swing Bridge, Houma, LA
	This Project started with the development of a scope of services and cost estimate to determine the extent of
	rehabilitation that fit the DOTD budget. Included in the rehabilitation were: structural repairs, new mechanical
	and electrical systems, new traffic barriers and gates, new fender system, new operator house, concrete repairs,
	sampling existing paint coatings, repainting, rebalancing of swing span, and revetment repairs. One significant
	feature was the installation of a platform under the roadway for mounting the mechanical system and electrical
	components so that they would no longer be submerged during high water conditions. Mr. Newman was the
	Engineer of Record for all mechanical inspection, design and installation review.
04/07-05/11	H.003985 Mermentau Swing Bridge Rehabilitation at Grand Chenier, LA
	This Project was the rehabilitation of the LA 82 swing bridge over the Mermentau River. Included in the Project
	were structural repairs, electrical and mechanical upgrades, repainting, operator house upgrades, fender repairs,
	and traffic control devices. Traffic was maintained throughout the project. Mr. Newman was the Engineer of
	Record for all mechanical inspection, design and installation review.

Firm employed b	y Modjeski and Mas	ters, Inc.											
	an E. Gerhart	,		Years of relevant experience with this employer 12									
Title Associa	te – Electrical			Years of relevant experience with other employer(s) 12									
Degree(s) / Year	s / Specialization		BS	1998		Е	Electrical Engineering						
Active registration	ctive registration number / state / expiration date						/31/2023						
Year registered	2018	Discipline	Elect	rical									
Contract role(s) /	brief description of re	esponsibilities											
Mr. Gerhart is a	Project Manager in Mo	odjeski and Ma	sters' l	Electrica	l Engin	neeri	ing Section and has over 24 years	s of exper	ience in				
the design of elec							s for movable bridges.						
Experience dates	Experience and qua	alifications rele	evant t	o the pro	oposed	cor	ntract; i.e., "designed drainage",	"designe	d girders",				
(mm/yy-mm/yy)	Ŭ						the time specified in the applical						
05/16 - Ongoing	US 11 Bridge Reha	abilitation Des	ign, N	ew Orle	ans, L	A I	Louisiana Department of Trans	sportation	n				
	_	_					l, and architectural rehabilitation						
							. The North bascule span is the or	•	•				
	1	1		d improving the structural capacity to eliminate the weight posting of the									
				-	-		converted to hydraulic operation.						
		• '					needed to service electrical utilit	•	_				
	-	-					al capacity to eliminate the weigh						
	1			abilitated to retain their historic appearance. The bascule spans comprise									
	O I \	,		4.7-mile bridge over Lake Pontchartrain. Mr. Gerhart was the lead									
	<u> </u>		e electi	ctrical rehab of the power distribution, control system, and roadway									
0.5/1.2 0.7/1.5	lighting on the brid			- 10: T			CTTTTT T 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2						
06/12 - 07/16							CWW, Larose, LA LADOTD						
	_			or the upgrade of the structural, electrical, mechanical system to extend the									
		•					ditionally a new fender system w						
						graded, and bridge repainted. A bridge inspection and development of scope							
							spected the current condition of the						
		•	nprove	ements.	Mr. Ge	ernar	rt also participated in the design of	of the elec	trical				
08/12 - 08/19	system rehabilitatio		l Mari	DOT /	A a m a m	o.£ .1	ha dagiga/hasild tagas lad bee the i						
08/12 – 08/19			•				he design/build team led by the job machanical and alastrical design						
				-			I mechanical and electrical design						
	Bridge fift span. In	e repracement	or the l	Fore River Bridge, carrying Route 3A, is a signature project in the									

	Massachusetts Accelerated Bridge Program. The new proposed vertical lift bridge provides a horizontal					
	navigable channel of 250' and a vertical clearance of 175' in the open position. Extensive rehabilitation was					
	required for the approaches to the proposed structure in addition to demolition of the existing temporary bridge					
	and associated fender system. In addition to the mechanical and electrical services for the lift bridge					
	replacement, M&M was also tasked with the vessel collision analysis and fender protection design. Mr. Gerhart					
	was the lead electrical engineer for this project.					
10/13 – 06/15	4th Street Harvey Bridge over Harvey Canal. Harvey, LA LADOTD: Categorized as a high priority project					
	for DOTD, M&M was engaged to develop a scope for the rehabilitation of the structural, electrical and					
	mechanical systems for extending the life of the bridge 30-40 years. Plans include replacing the grid deck, new					
	track and tread plates, replacing hydraulic system, new electrical control system, generator, and repainting the					
	bridge. Mr. Gerhart was the lead electrical engineer for this project.					
01/11 - 09/15	Jackson Street Bridge Rehabilitation, Alexandria, LA LADOTD					
	M&M prepared the preliminary and final plans for the Jackson Street Bridge rehabilitation over Red River in					
	Alexandria, LA. The rehabilitation includes repairing abutment damage caused by pavement growth, damaged					
	approach slab, providing a relief mechanism for future growth, rehabilitating the lift span steel grid deck, and					
	replacing the bridge & operating house electrical components. Mr. Gerhart performed an inspection of the					
	existing condition of the electrical systems and provided recommendations for the necessary improvements. Mr.					
	Gerhart also participated in the rehabilitation design					
12/10 - 08/16	Houma Navigational Canal Bridge Rehabilitation, Houma, LA LADOTD					
	The Houma Navigational Canal Bridge is a swing bridge operated by hydraulic slewing cylinders. M&M is					
	providing engineering design services for the rehabilitation of the drive machinery of this bridge. Mr. Gerhart					
	was an Electrical Specialist on this project and was responsible for the design of the electrical system and					
	provided construction support. Mr. Gerhart also performed the electrical inspection for this project.					
08/11-01/12	Lapalco Bascule Bridge Repairs, Harvey, LA Jefferson Parish Dept of Public Works					
	This 2,840' long four-lane high-rise bridge contains a double-leaf bascule girder span over the Canal. Over a					
	period of years, for Jefferson Parish, M&M has inspected the bridge, developed plans for upgrading structural,					
	electrical and mechanical components and provided construction support services. Emergency responses have					
	been made following both marine collisions and hurricanes. Mr. Gerhart was part of the electrical design team.					
	<u> </u>					

Firm employed	l by Modjeski and Masters, Inc.					
Name Geoff	rey L. Forest, PE		Years of rel	leva	nt experience with this employer	20
Title Assoc	ciate – Mechanical Design		Years of rel	leva	nt experience with other employer(s)	0
Degree(s) / Ye	ars / Specialization	MS	2001		Mechanical Engineering	
		BS	2000		Mechanical Engineering	
Active registra	tion number / state / expiration date	PE45	5721 LA	4	9/30/2023	
Year registered	d 2021 Discipline	Mec	hanical			
Contract role(s) / brief description of responsibilities					
Mr. Forest is a	Project Manager in the Mechanical Eng	gineer	ing Section o	of the	e firm. He has participated in various insp	pections of
	•		_		nstruction monitoring, inspection and con	ndition
	iling bridges for rating capacity, develo					
Experience dat	1 -				contract; i.e., "designed drainage", "desi	
(mm/yy-mm/y					ver the time specified in the applicable M	
01/14 – Ongoi		-			Louisiana Department of Transporta	
	1		*	,	d architectural rehabilitation services to e	
					The North bascule span is the only routing	• •
	1		_		apacity to eliminate the weight posting of	_
			-		rted to hydraulic operation. The South ba	-
	· · ·				ed to service electrical utility lines crossing	_
					apacity to eliminate the weight posting of	C
	*				storic appearance. The bascule spans con	-
	1 , ,		_		ake Pontchartrain. Mr. Forest led the mec	_
	1		_		achinery design included electric motors,	1 0
	±				. The span drive system was converted to	•
				-	on the bascule girders. The bascule leaf s	1
10/14 10/17					and interferences with the new operating	
12/14 – 12/17					- Various Bridges (Statewide) LADOT	
	· ·	5			tasked to provide Structural, Mechanical	
	<u> </u>				Depth Bridge Inspections for various bridge	
			0		Complex Structures Inspection Retainer v	
			_		cal rope access and rappelling, aerial wor	
	and standard chinding techniques.	Bugg	ge conditions,	, inc	luding specific defects, were documented	i and

	presented in an inspection report and PONTIS/Inspect-Tech forms, along with repair recommendations and a full
	coatings evaluation report. Mr. Forest performed an in-depth condition inspection of the operating machinery for
00/10 06/16	the movable bridges and authored the mechanical section of the inspection report.
03/10 – 06/16	Houma Navigation Canal Bridge Rehabilitation. Houma, LA LADOTD: The Houma Navigation Canal Bridge is a swing bridge operated by hydraulic slewing cylinders. M&M is providing engineering design
	services for the rehabilitation of the drive machinery of this bridge. Mr. Forest performed field inspection and
	strain gage balancing of the existing operating machinery and design of the new machinery for the upgrade of
	the span drive system. Mr. Forest performed shop drawing review and response to Contractor RFI's. He also
10/12 06/15	performed on site machinery installation support and inspection during construction.
10/13 - 06/15	4th Street Harvey Bridge over Harvey Canal. Harvey, LA LADOTD: Categorized as a high priority project
	for DOTD, M&M was engaged to develop a scope for the rehabilitation of the structural, electrical and
	mechanical systems for extending the life of the bridge 30-40 years. Plans include replacing the grid deck, new
	track and tread plates, replacing hydraulic system, new electrical control system, generator, and repainting the
	bridge. Mr. Forest designed a new hydraulic span drive system to replace the existing hydraulic system. The new
	span drive was modeled after other LADOTD hydraulic span drives for consistency, but tailored specifically for
	this bridge. The design also included replacement of the center locks and tail locks with components that better
	retain the alignment of the spans Mr. Forest performed mechanical design for the rehabilitation. The work
	consisted of replacing the hydraulic span drive system in its entirety, as well as the track and tread plates. A
	staggered gear tooth profile was using in the track and tread design, which was modeled in 3D to create and
	verify the complex shapes
02/09 - 10/11	Electrical Rehabilitation of Louisville Street Bascule Bridge & East Pearl River Swing Bridges. Monroe
	and St. Tammany Parish, Louisiana LADOTD
	M&M prepared the electrical plans with specification notes for the rehabilitation of the Louisville Street Bridge
	over the Ouachita River in Monore, LA and the East Pearl River Bridge over the Pearl River in LA. Both
	bridges were in need of an electrical rehabilitation including lighting, gears and generator replacement. M&M
	also provided construction support services.
11/06 - 02/07	Stennis Space Center Bascule Bridge. Hancock County, MS Stennis Space Center
	This bridge is a double leaf bascule bridge. M&M provided an in-depth structural, mechanical, and electrical
	inspection. Mr. Forest was involved with the in-depth inspection and strain gauge balancing of the double-leaf
	bascule bridge operating machinery.
	baseule office operating machinery.

	nploved by	Modjeski and Mas	ters. Inc.					
Name	David M			Years o	f exper	rience with this firm/employer	29	
Title	,						rience with other firm(s)/employer(s)	2
Degree((s) / Years	/ Specialization		MS	1993	Mech	nanical Engineering	<u> </u>
		_		BS	1991	Mech	nanical Engineering	
Active 1	registration	number / state / exp	iration date	PE38	789	LA	9/30/2022	
	gistered	2014	Discipline	Mech	anical			
		orief description of re						
		· ·					te in the firm's Movable Bridge Depar	
	_					_	ects of bridge design, inspection, and te	0
		_	•		_		s includes work during the construction	_
							struction consultation. His experience	
-		0				-	ped computer programs for bridge made	•
							ting such as installation and monitoring	
		splacement sensing s	sensors, ultraso	nıc met	hods, ma	agnetic	particle, dye penetrant, and balance m	leasurements on
	e bridges.	г · 1	1:0: .: 1		.1	1		1 ' 1 ' 1 ' 1
-	ence dates			evant to	o the pro	oposea	contract; i.e., "designed drainage", "	designed girders",
07/14 –	/ <u>-mm/yy)</u>	"designed intersect		Duidaa	Omana	iomal I	Iggueg Now Owleans I avisions	
0//14 -	06/14			_	-		Issues. New Orleans, Louisiana The Seabrook Bascule Bridge experience	and noises and
			•				d to perform a mechanical and structur	
							s needed to accurately determine the ca	
							ge. M&M performed the analysis and	
					_		Mr. Barrett was the lead mechanical en	
		project.	repuirs to remae	intace t	ine strae	tare. 1	on. Barrett was the read meenamear en	Sincer for this
		projecti						
12/13-0	01/14	Norfolk Southern	Corporation.	North	Draw I	Lake P	ontchartrain - Testing Services. New	w Orleans,
		Louisiana	-				Ç	,
		At an urgent reques	t from Norfolk	Southe	ern, M&l	M prov	vided strain gage balance testing of the	single rolling leaf
		bascule span at the	North Draw of	the Lal	ke Pontc	hartraiı	n railroad crossing. Mr. Barrett partici	pated in the strain
gauge balance testing.								

11/11-03/12	Jefferson Parish. Lapalco Bridge over Harvey Canal. Harvey, Louisiana									
	The Lapalco Boulevard Bridge is a welded plate girder, double-leaf bascule bridge that carries four traffic lanes									
	over the Harvey Canal. The firm performed structural, mechanical and electrical inspections, provided a report									
	of findings/ recommendations, developed repair plans and monitored repairs and repainting. Mr. Barrett									
	supervised the strain gage balancing of the double leaf bascule bridge.									
01/12-03/12	CSX Transportation. Rigolets Bridge - Pivot Machinery Rehabilitation. New Orleans, Louisiana									
	After a mechanical malfunction of the pivot machinery on the Rigolets Bridge, CSX contacted M&M to conduct									
	an emergency site visit to determine the problem. M&M performed a mechanical evaluation of the swing span									
	and developed both temporary and permanent repair plans for the structure. Mr. Barrett was the lead mechanical									
	engineer for this project.									
02/07 -03/07	Union Pacific Railroad. Krotz Springs Bridge Mechanical Rehabilitation. Krotz Springs, Louisiana									
	The Krotz Spring Bridge is a swing span bridge in Krotz Springs. This 3435 ft. structure consists of pre-									
	stressed, pre-cast concrete girders and steel truss spans crossing the Atchafalaya River. M&M worked on the									
	rehabilitation of this bridge which included new end lifts. Mr. Barrett detailed the rehabilitation of existing									
	mechanical components and designed new end lift, rail lift, and center latch machinery for this swing span. He									
	also performed QA/QC and cost estimates for rehabilitation of the span drive system and span guide system.									

Firm employed	l by Modjeski and Mas	ters, Inc.										
Name Josep	h G. Strenkoski, PE		Years o	f relev	ant e	experienc	ce with th	is emplo	oyer		9	
Title Senio	Title Senior Associate - Electrical					ant e	experienc	e with ot	her emp	loyer(s)		24
Degree(s) / Ye	ars / Specialization		BS	1988	Elect	rical	l Enginee	ering				
Active registra	tion number / state / exp	iration date	3833	6	LA	3/	/31/2024					
Year registered	2013	Discipline	Elect	rical								
,	Contract role(s) / brief description of responsibilities											
	has been employed by	· ·							•			
	neering consulting field i											
	nent. Mr. Strenkoski has								ncludin	g in-house	e coord	dination of
	, and mechanical/electri											
Experience dat	1 1			-	-					_	_	•
(mm/yy-mm/y		•										
06/13 - 02/15	Joliet IL Bascule 1	_							_			
	engineering service		_									,
	to remote control o	-		-	_		-					-
	remotely control si	-		_		_						
	serving as the Sen		_					_	-		_	
	electrical and SCAl to meet client stand		ign. He	e is aiso i	respons	sibie	e for all c	ost estim	ating an	a quantity	sched	lunng tasks
02/17 - 08/201			ian N	ovy Orlo	ong I	A I T	Louisian	n Donort	mont of	Trancna	rtotio	
12/18 - 08/201	<u> </u>		-					_		_		
12/10 - 00/201	the service life of the	C	,				*					
	operated span. In ac									•		•
	bridge, the operator				_			•		U		C
	span is only opened			_				•	-			
	lake. The span toes	• `		,						•		C
	bridge. The operator	-		-							_	
	the largest spans (1										-	-
	Record for the elect											<u> </u>
06/14 - 02/15	Elizabeth City Bri	dge Replacem	ent/Re	habilita	tion. N	Vortl	h Caroli	na DOT	(Elizabe	eth City, I	NC): A	As part of a
	Movable Bridge Services Agreement for North Carolina Dept. of Transportation, M&M has been contracted to									M has bee	en cont	racted to

	replace the eastbound and rehabilitate the westbound bridges at Elizabeth City. The westbound span is a double leaf Hopkins trunnion bascule bridge. The new eastbound bridge is a double leaf trunnion bascule bridge. M&M
	provided construction management, including shop drawing review, shop inspection, and field inspection for the work on these bridges. Mr. Strenkoski assisted in construction support effort, construction meetings/site visits,
	and QA/QC of construction related responses.
02/14-07/15	Lapalco Bascule Bridge Repairs, Harvey, LA Jefferson Parish Dept of Public Works
	This 2,840' long four-lane high-rise bridge contains a double-leaf bascule girder span over the Canal. Over a
	period of years, for Jefferson Parish, M&M has inspected the bridge, developed plans for upgrading structural,
	electrical and mechanical components and provided construction support services. Emergency responses have
	been made following both marine collisions and hurricanes. Mr. Strenkoski investigated the needs for replacing
	the braking system.
10/13-02/14	Florida Avenue Bridge over Inner Harbor – Navigation Canal, New Orleans, LA
	Hurricane Katrina flooded the Operator House electrical equipment room. M&M assisted the Port of New
	Orleans to secure funding from FEMA to rehabilitate the Operator House. The scope of services needed to be
	approved by FEMA and required modifications to provide the hazard mitigation and electrical repairs necessary
	to receive funding. Mr. Strenkoski provided assistance in site review and discussions of the situation.
04/14-05/14	H.010882 4th Street Bridge Rehabilitation, Harvey, LA LADOTD
	The project involved the reliable performance of structural, mechanical, electrical, and architectural
	rehabilitation services of this bridge with the intent to extend the life of the bridge 30-40 years. Constructed in
	1975, the bridge is a two-lane, double-leaf bascule bridge that carries LA18 across the Harvey Canal at Harvey,
	Louisiana. Mr. Strenkoski assisted with the evaluation of the electrical components of this bridge.

Firm employed by Modjeski and Masters, Inc.									
Name	Newell I	I. Schindler, Jr., PE			Years of relevant experience with this employer	2			
Title	Supervis	or Engineer – Highway	Section Manager	r	Years of relevant experience with other employer(s)	39			
Degree((s) / Years /	1982 Civil							
Active r	egistration	number / state / expirati	on date	PE24	130 LA 03/31/2024				
				Work	x Zone Training Compliant				
Year reg	gistered	1988	Discipline	Civil					
Contrac	t role(s) / b	rief description of respo	nsibilities:						
Mr. Sch	indler has	39 years of experience in	n the managemen	nt and	design of infrastructure projects, 13 years of experience in the Roa	d Design			
Section	of LA DO	TD, and 26 years of expe	erience as a Con	sulting	Engineer which has included Project Management and design of a	n multitude			
of infras	structure in	nprovement projects. He	has extensive k	nowled	lge of current LA DOTD and the American Association of State H	ighway &			
Transpo	rtation Off	icials' (AASHTO) polic	ies and design p	rocedu	res. In addition, Mr. Schindler supervised the design of a multitude	e of road			
and brid	lge improv	ement projects, including	g complex urban	inters	tate, urban arterial, rural arterial, and minor bridge replacement pro	ojects.			
Projects	included o	coordination with Traffic	Engineers and t	the eva	luation of traffic analyses to develop capacity and safety roadway				
					niliar with the NEPA process and has completed the course "Nation	nal			
Environ	mental Pol				Making," sponsored by the National Highway Institute.				
Experie	nce dates	Experience and quali	fications relevan	nt to th	ne proposed contract; i.e., "designed drainage", "designed girders	", "designed			
(mm/yy-	-mm/yy)								
12/20-03	3/22	Cline Ave Bridge. East							
					post construction design tasks. Performed an independent technical revi				
					d by others to determine conformance with AASHTO, IDOT, and IMUTO				
					as were identified and documented in M&M's NCR Report. Also provided				
					the operation and safety of the Cline Ave. Bridge facility. Subsequently, precommendations. Final plans included signing and striping layouts along				
					e installation of Guide (Attraction) signs along Indiana SR 912 and I-90 in				
					IMUTCD, MUTCD and Illinois and Indiana sign guidelines. Also Served				
					ts for two (2) proposed new partial and fully directional interchanges. at 1				
		and Cline Ave. Bridge ((SR-912) (CAB). l	Five (5)	conceptual interchange layouts were developed for the proposed Riley R	d./CAB			
					e layouts were developed for the proposed Riley Rd./CAB Interchange an				
					outs were developed for the ramp intersections. Developed design criteria				
				HTO an	d IDOT Interchange guidelines. Also developed plans for additional Guid	de Signage in			
02/17-05	7/20	Accordance with MUTO		~ . A E -	osibilita Canda (C.D. No. H.00207.1). Deter Dence I.A. L.A. DOTD				
02/17-05	0/20				asibility Study (S.P. No. H.00297.1). Baton Rouge, LA LA DOTD Principal-in-Charge for a Stage 0 Feasibility Study to evaluate the constr	notobility			
					operational roadway improvement alternatives along an 8.5 mile segment				
					major intersections. Phase 1 services consisted of the, initial project research				
					the Preliminary Purpose and Need and performing a traffic study for the I				

	No-Build conditions and developing the proposed improvement to carry forward to the Phase 2 Services. Mr. Schindler developed the
	Scope of Work for the Phase 2 Services. Phase 2 services included developing the design criteria for the evaluation of propose safety
	and capacity improvements alternatives, completing segments of the Stage 0 Feasibility Study and Environmental checklist.
05/12-08/16	Baker Canal Bridge Replacement (S.P. No. H000698). Baker, LA LA DOTD
	Mr. Schindler was Project Principal, Engineer of Record and Quality Control Officer. Project consisted the design for the replacement
	of the northbound and southbound bridges over Baker Canal, along with reconstruction of the approach roadway and geometric
	improvements for the US 61//LA 964 interchange. Mr. Schindler performed technical quality control reviews for all aspects of the
	highway design in accordance with LA DOTD and AASHTO policies and criteria. He Performed technical quality control reviews of
	the horizontal and vertical design. He Performed quality control reviews of the hydrologic and hydraulic analyses in accordance with
	LA DOTD Hydraulics manual for drainage improvements (open ditch & sub-surface drainage). Mr. Schindler performed technical
	quality control reviews of the preliminary and final construction plans, which included typical sections, plan/profile sheets, traffic
	control plans, sequence of construction, and cross section sheets. Included guard rail in accordance with AASHTO's roadside design
	guide. He calculated construction quantities. He reviewed RFI and provided recommendations. He also reviewed and approved plan
0.4/4.5.00/40	changes and provided construction support during the construction phase.
04/16-08/19	Rossignol Road Bridge Replacement. Calcasieu Parish, LA Calcasieu Parish Police Jury (CPPJ)
	Principal-in-Charge and QA/QC officer overseeing the engineering design and construction for the replacement of an 80' timber bridge
	on Rossignol Road that crosses over Drainage Canal 8. Performed a Feasibility Study evaluating three (3) alternative bridge structures
	(Slab span, Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS) with AASHTO Type II girders, and GRS-IBS with
	steel girders). HEC-RAS was utilized for hydraulic analysis of alternatives. Provided engineering services for the design and
	preparation of plans and specifications for a precast concrete slab span bridge replacement (3-spans), along with replacement of approach roadways. Construction was successfully completed in December 2019. In addition, assisted CPPJ in the advertisement and
	bidding of the proposed work and provided construction administration during construction.
03/10-09/12	Neighborhood Planning, Stage 0 Feasibility Study, The Bayou District, St. Bernard Ave. (I-610 – Harrison Ave.) (RPC No. A-
03/10-09/12	4.11). New Orleans, LA New Orleans Regional Planning Commission (RPC)
	Mr. Schindler was Project Manager and Principal-in-Charge. He completed a Stage 0 Feasibility Study for Transportation
	improvements along St. Bernard Avenue between I-610 and Filmore Avenue in the Bayou District neighborhood of New Orleans.
	Supervised the collection of traffic data, organized a project advisory committee, and provided conceptual alternatives for significant
	capacity improvements at the St. Bernard Ave./Caton St. Intersection. Alternatives included the conceptual designs of a roundabout,
	along with traditional signalized intersection with the addition of turn lanes. This project incorporated Complete Streets policies and
	included accommodating pedestrian and bicycle facilities.
02/13-06/14	Judge Edward Dufresne Parkway Extension Stage 0 Feasibility Study and Safety Study (RPC P. No. UPWP A-5.13). Luling,
	LA New Orleans Regional Planning Commission (RPC)
	Mr. Schindler served as the Principal-in-Charge and QC/QA Officer for a Stage 0 Feasibility Study for evaluation of alternatives to
	extend Judge Edward Dufresne Parkway and/or provide emergency access to I-310 in the event of a train derailment. Collected traffic
	data, generated evacuation volumes, and prepared geometric alignment concepts and typical section drawings for the valuation of
	alternatives. Collected stakeholder input from the St. Charles Parish School Systems, Sheriff's Office, Department of Planning,
	Department of Parks and Recreation, LA DOTD, Parish elected officials and private landowners. Evaluated potential environmental,
	cultural, and socioeconomic resources within the designated project area and prepared alternatives maximizing the existing right-of-
	way and minimizing wetlands impacts.

Firm employed by Modjeski and Masters, Inc.									
Name Justin G	uillot PE		Years of relevant experience with this employer						
Title Engineer	 Highway Section 		Years of relevant experience with other employer(s)	4					
Degree(s) / Years /	Specialization	BS	2017 Civil						
Active registration	number / state / expiration date	PE457	792 LA 03/31/2024						
		_	Zone Training Compliant						
Year registered	2021 Discipline	Civil							
	Contract role(s) / brief description of responsibilities:								
			ucture projects. He has a broad knowledge of current Louisiana D						
			n Association of State Highway & Transportation Officials' (AAS						
			gement roles and performed construction administration. In additional additional administration administration administration.						
_	•		istration (FHWA) and National Highway Institute (NHI) in Roads	•					
•	•	ssociatio	on (ATSSA). He is certified as a Traffic Control Technician, Traff	fic Control					
Supervisor, and Fla									
Experience dates			e proposed contract; i.e., "designed drainage", "designed girders	", "designed					
(mm/yy-mm/yy)			over the time specified in the applicable MPR(s).						
2/21 - 3/22	C	0 /	: This project involves various tasks related to the recent co						
			oox girder toll bridge. Mr. Guillot served in a general engine						
	support role in performing an Inde	penden	t Technical Review of final Signage and Striping Plans prod	luced by					
	another consulting firm for conform	mance v	with Indiana Department of Transportation (InDOT) Design	Guidelines					
	as well as the Indiana Manual on U	Jniform	Traffic Control Devices (IMUTCD). He was also tasked w	vith					
	proposing recommendations to im-	prove tl	ne safety and operation of the bridge and roadway approache	es,					
	1 1 0		ing layout and the addition of various warning and regulator						
	_		d final construction plans which included corrections to the						
			recommendations. He calculated construction quantities an						
	_	-	He also reviewed construction material submittals from the	-					
	for conformance with the project s	pecifica	ations. Another task was the creation of conceptual layouts	for new					
	interchanges along the bridge. Mr.	Guillo	t's role included determining the appropriate ramp design cr	riteria					
	(design speed, travel lane and show	ılder wi	dths, cross slope, maximum grades, curve radii, etc.) and de	esigning					
	1		es for a total of 8 ramps at 2 different interchange locations i						
			"A Policy on Geometric Design of Highways and Streets".						
	ramps required complex layouts due to vertical clearance issues caused by the presence of overhead utilities and								

	at-grade railroad tracks as well as limited right-of-way availability. He also produced conceptual layout
	drawings to illustrate each alternative.
3/21 - 6/21	Calcasieu River Bridge (Prien Lake) Rating (S.P. No. H.009859.5). Lake Charles, LA: Mr. Guillot served in
	a general engineering support role, which included utilizing AASHTOWare BrR and other bridge rating
	software to perform the calculations necessary to rate the prestressed concrete girder sections of the bridge,
	concrete pile bent caps, and the pin & hanger connections within the steel girder sections. He also contributed to
	the compilation of the final Rating Report.
2016 - 2019	Rossignol Road Bridge Replacement. Calcasieu Parish, LA Calcasieu Parish Police Jury (CPPJ)
	Mr. Guillot provided general Engineering support for the replacement of an 80' timber bridge on Rossignol
	Road with a precast concrete slab span bridge. He performed geometric design of the bridge alignment and
	roadway approaches in accordance with AASHTO design criteria. He performed hydrologic and hydraulic
	analyses of roadway drainage elements and designed the approach guardrails as well as the bridge abutment
	scour protection, all to LA DOTD standards. He calculated final construction quantities and compiled an OPCC.
	He also assisted in the development of final construction plans and specifications.
2017 - 2020	Central City Group A (FRC) (DPW P. No. 2017-RR021). New Orleans, LA City of New Orleans - DPW
	Mr. Guillot served as Design Lead during the preliminary and final design phases then transitioned to Project
	Manager and Construction Administrator upon the start of the construction phase. He performed geometric
	design in accordance with AASHTO design criteria and ensured compliance with the Americans with
	Disabilities Act (ADA) for full reconstruction (FRC) of 9 city blocks in the urbanized Central City
	Neighborhood. The project was a complex urban design due to the number of underground utilities and limited Right-of-Way. Mr. Guillot performed hydrologic and hydraulic analyses for the design of the sub-surface
	drainage system for a 10-year design storm in accordance with the LA DOTD Hydraulics Manual, along with
	design of the replacement of existing water and sanitary sewer systems. He oversaw development of the final
	construction plans and specifications, including typical sections, special details, plan/profile sheets, geometric
	details, joint layouts, and cross sections. Mr. Guillot calculated quantities for all construction bid items and
	compiled an Opinion of Probable Construction Cost (OPCC) which was ultimately within 1.1% of the winning
	contractor's bid. Upon the start of construction, Mr. Guillot was the primary point of contact for both the client
	and the contractor. He reviewed contractor material submittals and shop drawings for compliance with the plans
	and specifications. Lastly, he performed frequent site visits to ensure safe work practices were being followed
	and verify the contractor's implementation of proper temporary traffic control measures.

101 Starr	<u> </u>							
Firm employed by Modjeski and Masters, Inc.								
Name Michael J. Beitzel, NICET IV, NACE Ye			1	Years of relevant experience with this employer 48				
Title	Senior Technician III Yea			Years of relevant experience with other employer(s) 0				
Degree	(s) / Years / Specialization		High S	School 1971				
	UNO Civil Engineering (part-time) 1972 - 1981							
Active registration number / state / expiration date								
NACE	Certified Coating Inspector No.	5982		SSPC Member No. 000310				
(Level 3	3 and Peer Review)			NBIS Certified				
NACE	Corrosion Technician No. 5972			SSPC C-3 and C-5 Refresher				
1986 NICET Level IV No. 071944				Work Zone Training compliant				
Year registered Discipline								
Contract role(s) / brief description of responsibilities								

Mr. Beitzel has worked in the Field Services Section of Modjeski and Masters, Inc. since 1974. He has experience in the inspection and evaluation of both fixed and movable bridges for highways and railroads. He has routinely assisted in matters pertaining to operations problems with movable bridges over many years. He has performed numerous bridge inspections/evaluations and has overseen rehabilitating work on a number of bridges, particularly for maintenance and preservation purposes. Mr. Beitzel was one of the very first persons nationwide to become a NICET IV Engineering Technician in the field of Bridge Safety Inspection. As such, he has participated in and has led inspection teams in the inspection of many bridges of all types including large Mississippi River Bridges. Mr. Beitzel is also a NACE Certified Coating Inspector with more than 40 years of experience in the inspection, plan and specification development for coating of bridges. He has conducted numerous bridge coating condition assessments and is M&M's Coating Group Leader.

Experience dates	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",
(mm/yy-mm/yy)	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/12 - 04/18	H.000343/H.009943 US 190 Huey P. Long Bridge Construction Engineering & Inspection (Cleaning, Painting,
	Repairs [Phases I and 2]), Baton Rouge, LA.
	This project provided construction engineering and inspection services for the through truss cantilever bridge that carries
	US 190, as well as one rail line over the Mississippi River in Baton Rouge, LA The 12,000+ foot bridge was in need of
	several repairs such as replacing elements in the steel approach and main spans, repairing navigation lighting, constructing
	retaining walls, placing guard rail, and repairing pavement. M&M also provided project administration, paint inspection,
	as well as environmental monitoring services during construction. The construction project consisted of structural repair,
	cleaning and painting of the steel superstructure. Mr. Beitzel oversaw the construction engineering and inspection services
	for the repainting of this bridge, provided QA services and mentoring to the field staff.

08/12 - 04/18	H.000343/H.009943 US 190 Huey P. Long Bridge Construction Engineering & Inspection (Cleaning, Painting, Repairs [Phases I and 2]), Baton Rouge, LA. This project provided construction engineering and inspection services for the through truss cantilever bridge that carries US 190, as well as one rail line over the Mississippi River in Baton Rouge, LA The 12,000+ foot bridge was in need of several repairs such as replacing elements in the steel approach and main spans, repairing navigation lighting, constructing retaining walls, placing guard rail, and repairing pavement. M&M also provided project administration, paint inspection, as well as environmental monitoring services during construction. The construction project consisted of structural repair, cleaning and painting of the steel superstructure. Mr. Beitzel oversaw the construction engineering and inspection services for the repainting of this bridge, provided QA services and mentoring to the field staff.
04/15 – 03/18	H.011482 Huey P. Long Bridge Cleaning and Painting – Segment 7, Jefferson Parish, LA The Huey P. Long Bridge is a high-level, combination highway and railroad truss bridge which crosses the Mississippi River in New Orleans, Louisiana and is part of the complex urban freeway system in the area. The total structure length, including approaches, is approximately 23,000 ft. The project consisted of the development of plans and specifications for the removal of lead paint and the recoating of the original bridge trusses and bracing above bridge deck level. CE&I services and a Level 4 Transportation Management Plan were provided. Mr. Beitzel developed the plans and specifications for the project and provided QA oversight for the CE&I services.
10/15 -04/18	H.010636 US 90 Over Mississippi River (GNO 2) Structural Repairs and Spot-Painting, New Orleans, LA M&M prepared plans for the repair and repainting of the Greater New Orleans Bridge No. 2 main bridge unit. Plans were also prepared for the repair of miscellaneous structural metalwork. Mr. Beitzel developed the plans and specifications for the repainting of the bridge and oversaw the construction engineering and inspection services for this project.
04/15 – 06/16	H.009326.6 I-10/I-610 Bridge Repairs and Painting, Orleans, St. Charles and St. John Parishes, LA The project provided for the complete cleaning and removal of existing lead based paint, application of new paint, and disposal of material in steel spans in the I-10/I-610 bridge near New Orleans, LA. Along with its sub-consultant KGC Environmental Services, Inc., M&M provided CE&I services to perform all painting inspection and environmental monitoring services. Mr. Beitzel provided QA oversight for the CE&I services.
05/12 – 03/15	H.003028.5 Repaint I-10 Mississippi River Bridge West Approach, Baton Rouge, LA This Project provided for sampling of existing paint coatings and site detailing for the preparation of plans and specifications for the repainting of the bridge west approach. A significant feature of this project was avoiding closure of any I-10 lanes. Mr. Beitzel oversaw the existing sampling of site conditions and developed the plans and specification for the repainting of this bridge.

	nployed by	Modjeski and Mas	sters, Inc.									
Name	Stacey P	. Carr, PE	,		Years of relevant experience with this employer 30							30
Title	Associate	e - Structures					nt experie					1
Degree	(s) / Years	/ Specialization		MS	2004	Struct	ural			•		-
C	` /	1		BS	1990	Civil						
Active	registration	number / state / exp	oiration date	2679	6	LA	9/30/202	2				
Year re	gistered	1996	Discipline	Civil								
Contrac	ct role(s) / l	brief description of re	esponsibilities	•								
Ms. Car	rr has exte	nsive experience in the	he rating of hig	hway, 1	ailroad,	and cor	nbined hig	hway	/railroa	d struct	ures, includi	ng large
		nd movable bridges.										
		ctures and gusset pla										
		of both LFR and LR					-				C	` '
	ence dates	Experience and qu				posed	contract; i	i.e., "(lesigne	d draina	age", "desig	ned girders"
(mm/yy	–mm/yy)	"designed intersect			-	-			_		-	-
11/19 –		H.009859.1: Load								•		
		Modjeski and Master	rs, Inc. is perforn	ning pla	n and do	cument	etrieval, br	idge ir	spection	ı (as nee	eded), analysi	s and load
		rating, sampling/inst										
		bridges. The bridge										
		load rating task, M&		•			•	_	•		•	
		dead and live load for										
		software is being use										
		influence lines and C All load rating analy										
		for Bridge Rating an										
		who oversees and pe							TVIAIIGAI	. 1415.	our is the ric	njeet ividnager
10/19 –	05/21	H.012485.1: Load						8				
		Modjeski and Master	U	•	U			idge ir	spection	ı (as nee	eded), analysi	s and load
		rating, sampling/inst										
		system bridges inclu	0 1		_		•		_		_	~ .
		structural model and										
		bridge superstructure										
		three-dimensional str										
		complex substructure										
		AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and										

	LADOTD Bridge Design and Evaluation Manual. Ms. Carr is the Project Manager who oversees and performs primary						
00/10 06/21	QC/QA for the load rating of the bridges.						
09/19 – 06/21	H.000303.6: Danziger Bridge Repair and Rating LADOTD						
	Modjeski and Masters, Inc. is performing repair and load rating services for the Danziger Bridge, a steel vertical lift						
	structure with a steel girder superstructure supported by reinforced concrete piers, and the flanking approach structures.						
	M&M is developing a LUSAS 3D model to evaluate main bridge and deck response to various conditions as well as for						
	load rating purposes. AASHTOWare Bridge Rating BrR software will be used to perform load rating based on the present condition, capacity and loading of the bridge. All load rating analysis will follow current AASHTO Manual for Bridge						
	Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and						
	Evaluation Manual. Ms. Carr is the Project Manager who oversees and performs primary QC/QA for the load rating and						
	analysis of this structure.						
10/17 - 08/19	H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD						
	Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection and analysis, and load and						
	resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure						
	components are being rated. Bridge inspections are focusing on gusset plates and existing member conditions for rating.						
	AASHTOWare BrR is being used for the ratings, which follow current AASHTO Manual for Bridge Evaluation, the						
	LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation						
	Manual. Ms. Carr was the Project Manager who oversees and performs primary QC/QA for the load rating of the bridges.						
02/16 - 10/17	H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD						
	Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection and analysis, and load and						
	resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans.						
	Gusset, truss, floorsystem and substructure components are being rated. Bridge inspections are focusing on gusset plates						
	and existing member conditions for rating. AASHTOWare BrR is being used for the ratings, which follow current						
	AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and						
	LADOTD Bridge Design and Evaluation Manual. Ms. Carr was Project Manager who oversaw and performed primary						
07/15 10/16	QC/QA for the load rating of the bridges.						
07/15-12/16	H.009859.5 (A): Rating and Posting of On-System State Bridges. Louisiana LADOTD						
	M&M performed load rating analyses for 110 existing bridge structures using the Load and Resistance Factor Rating						
	Method. Elements to be rated include superstructure and substructure components. Provisions in the 2011 AASHTO						
	Manual for Bridge Evaluation as well as LADOTD Policies and Guidelines for Bridge Rating and Evaluation were						
	followed. Ms. Carr was group leader, oversaw, and performed primary QC/QA for the load rating of the structures,						
	including prestressed concrete bridges.						

Firm employed by Modjeski and Masters, Inc.										
Name Jared V	Veisman, PE	Years of relev	ant experience with this employer	12						
Title Associa	te - Structures	Years of relev	ant experience with other employer(s)	0						
Degree(s) / Yea	rs / Specialization									
BS / 2008 / Civ	BS / 2008 / Civil Engineering MS / 2010 / Civil Engineering									
Active registration	n number / state / expiration date	3452 LA	9/31/2023							
Year registered	2019 Discipline 0	ivil								
	brief description of responsibilities									
	1 0	O	10. He has experience in the design, inspection, ra	<u> </u>						
		<u> </u>	has worked on a variety of bridge types including	deck and						
	lers, prestressed concrete girders, swing, fix									
Experience date			d contract; i.e., "designed drainage", "design							
(mm/yy-mm/yy			cover the time specified in the applicable MPI	₹(s).						
03/17 - Ongoing	LA 1 – Port Allen Bridge Replacemen									
			rthbound and southbound bridge structures on I							
			SB Bridge will consist of 3 - 12' travel lanes and 2 -							
			1 NB Bridge will consist of 2 - 12' travel lane							
			n barrier and 1 - 12' travel lane with 2 - 6' should	,						
			y will be separated by a permanent 2' wide media							
			way and I-10 EB Exit Ramp roadway will be carri							
			it Ramp Bridge will be approximately 2,700' a							
			nsist of a 870' long haunched three span continu							
		d prestressed conc	ete LG girder approach spans. Mr. Weisman serv	es as the Lead						
00/15 05/10	Engineer for this project.		I A D OWD							
09/17 - 05/19	LA 16 over Tangipahoa River, Tangi	-		T.A.						
			inary and final plans for this bridge replacement							
			oject included reconstruction of the approach slab							
			that traffic shall be maintained during construction							
		site diversion roadway and bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design								
	Specifications and the Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QA/QC was									
	currently on-going. Mr. Weisman serve		Construction Related Engineering Support was proper for this project	ovided and is						
	currently on-going. Mr. weisman serve	s as the Lead Engir	eer for this project.							

09/17 - 01/20	US 61 at Thompson Creek, West Feliciana Parish, LA LADOTD
	M&M provided all necessary preliminary and final plans for the rehabilitation of the northbound bridge and replacement of
	the southbound bridge on US 61 over Thompson Creek, between LA 10 and LA 964, near St. Francisville, LA. It was
	anticipated that traffic would be maintained during the construction of the new southbound bridge with temporary two-way
	traffic on the rehabilitated northbound bridge. The project also included the design and detailing of adding a helper bent to
	the northbound bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the
	Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for
	Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QA/QC was provided in accordance with
	Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was provided and is currently on-going. Mr.
	Weisman serves as the Lead Engineer for this project.
09/17 - 02/20	LA 1064 at Little Natalbany River, Livingston Parish, LA LADOTD
	M&M developed all necessary topographic surveys, preliminary and final plans for this bridge replacement project on LA
	1064, near LA 43 and Hoover Road, in Albany, LA. This project included reconstruction of the approach slabs and roadway
	on the east and west sides of the bridge. It was anticipated that the roadway would be closed during construction and a detour
	route was detailed. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the
	Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for
	Roads and Bridges, DOTD Road Design Manual, DOTD Hydraulics Manual, and DOTD Location and Survey Manual.
	QA/QC was provided in accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was also
10/14 06/16	provided. Mr. Weisman serves as the Lead Engineer for this project.
10/14-06/16	S.P. 700-18-0014 Huey P. Long Bridge Widening at New Orleans, LA
	This Project widens the existing bridge roadways through the widening of river piers using conventional and post-
	tension concrete, two new truss lines and 43' roadways to replace existing 18' roadways. The Project construction cost
	is \$1.2B. This Project was a major complex design involving adding truss lines while maintaining existing traffic. r.
	Weisman helped produce ratings for the widened structure for a variety of vehicle types, performed gusset plate analysis
	and helped in the creation of the project report.
03/11-09/14	I-74 Mississippi River Bridge Arch. Bettendorf, IA Iowa and Illinois DOTs
	The I-74 corridor in the Quad Cities is approximately seven miles long and crosses the Mississippi River between
	Bettendorf, Iowa and Moline, Illinois. Twin, 800' span basket handle true arch bridges are being constructed to replace
	the existing crossing. M&M, as part of the Alfred Benesch team, designed the twin arch superstructures. Mr. Weisman
	assisted in the design of the variable depth plate girder floorbeams and analyzed preliminary erection schemes for the
	basket handle arch superstructure. He also calculated quantities for cost estimation and checked calculations for the
	pedestrian railings.

Firm em	Firm employed by Modjeski and Masters, Inc.									
Name	Anthony	E. Schoenecker, PF	E		Years of relevant experience with this employer					
Title	Associate	e / New Orleans Field	Services Man	ager	Years of relevant experience with other employer(s) 4					
Degree(s) / Years	/ Specialization		BS	2005 Ci	vil I	Engineering	-	·	
Active r	Active registration number / state / expiration date 3578				66 LA		03/31/2023			
		•		NBIS	S Certified In	spec	ctor / SPRAT Le	evel III Certified		
					kzone Compl					
Year reg	gistered	2010	Discipline	Civil	[
		orief description of re	sponsibilities							
				Engine	eer and will s	erve	e as Bridge Inspe	ection Project Manager	for this	
				_				ion Team Leader respo		
					_		*	and Rope Access tech		
				-	_			bridges (and NHI 1300)	•	
								II Liquid Penetrant an		
		n; SPRAT Level III R	-	_			-	-	J	
	nce dates							esigned drainage", "de	esigned girders",	
1	-mm/yy)				1 1			ified in the applicable I		
11/21-02		TxDOT Fracture Ci					*			
		This bridge is a two-l	ane, single-span	, 94'-6"	long structure	bui!	It in 1890 and con	sists of one lenticular po	ny truss span and	
		six floorbeams suppo	rted by reinforce	ed conc	rete abutments	s. Th	ne fracture critical	members include the nor	rth truss line	
								tructed of painted wroug		
		_	_		_			lestructive testing technic	ques to perform	
12112		inspections of non-fra						t Manager.		
12/19 - 1	12/20	Alaska Bridges Insp			•					
								structural capacity assess		
								Hurricane Gulch Bridge		
								arch span is 388 feet long Bridge is a 1300 ft brid		
	Tanana River carrying a single railroad track. The main through truss span is 700 feet long and the approach includes 118' deck truss and several DPG span on steel towers. The Gold Creek Bridge is a 704 ft bridge over the Susitna River carrying									
								oach includes several TP		
		concrete piers. Mr. S							F	
3/17 – 1/	18							dges, Statewide LADO	TD	

9/16 – 11/16 As a member of a multi-firm team, Modjeski and Masters was tasked to prov	
12/14 – 8/15 Coatings inspection services to perform multiple In-Depth Bridge Inspections	
11/13 – 2/14 Louisiana, as a part of the ongoing statewide Complex Structures Inspection	
bridges in this contract included the Gramercy Bridge over the Mississippi Ri	
Bridge over the Intracoastal Canal, and the LA 47 Bridge over the Mississipp	
performed using technical rope access and rappelling, aerial work platforms,	
conditions, including specific defects, were documented and presented in an i	inspection report and PONTIS/Inspect-Tech
forms, along with repair recommendations and a full coatings evaluation repo	ort. Mr. Schoenecker participated as Team
Leader in the inspection of five bridges and was Project Manager for two bridges	dges under this contract. He additionally
served as office support for two bridges under this contract.	
9/19 – 5/21 Huey P. Long Bridge Annual Inspection New Orleans Public Belt Railro	oad
10/17 – 4/18 The Huey P. Long Bridge is a steel cantilever through-truss railroad and high	
10/16 – 3/17 a main bridge crossing of 3,525 feet and several miles of steel plate girder ap	proaches. The main bridge features four deck
11/15 - 3/16 truss spans, two anchor spans of 529 feet and 532 feet, two cantilever spans of	of 144 feet, a simple span of 531 feet, and a
10/14 – 1/15 suspended span of 503 feet. Mr. Schoenecker was an inspection team member	er from 2009-2012 and inspection team leader
10/13 - 2/14 from 2013-2018 for this annual inspection which included a 100% hands-on	visual inspection of all structural elements,
including fatigue-sensitive and fracture-critical members, comprising the mai	in bridge structure and approaches, for both
the railroad and highway.	
6/13 – 9/13 Crescent City Connection No. 1 & 2 Rating and Inspection. New Orleans	s, LA LADOTD
Mr. Schoenecker was the inspection team leader and rope access supervisor f	for this project and was responsible for the
coordination of the inspection and with the rating analysis team. M&M perfo	rmed an inspection and LRFR load rating of
both of these 13,428-foot truss bridges with main spans of apx 1,575 feet. Th	e in-depth inspection focused on each
member and the gusset plates, using technical rope access methods for access	S.
2/17 – 7/18 Nineteen Complex Bridges Load Rating and Evaluation, Statewide, LA	LADOTD
Modjeski and Masters, Inc. performed plan and document retrieval, bridge in	spection and analysis, and load and resistance
factor rating of complex bridge structures, mainly movable bridges. Gusset,	truss, floorsystem and substructure
components were rated. Bridge inspections focused on gusset plates and exist	ting member conditions for rating.
AASHTOWare BrR was used for the ratings, which followed the AASHTO	Manual for Bridge Evaluation, the LADOTD
Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge	idge Design and Evaluation Manual. Mr.
Schoenecker served as an inspection team leader for the Gramercy and Cresc	ent City Connection #2 Bridges, both
Mississippi River Crossings.	-
3/15 – 10/15 NYSBA Multiple Bridge Inspections. Statewide, New York New York S	State Bridge Authority
4/14 – 6/14 Mr. Schoenecker participated as a Team Member and a Team Leader over me	
4/13 – 11/13 bridges (Bear Mountain, Newburgh-Beacon North and South, Rip Van Wink	le, Mid-Hudson, and Kingston-Rhinecliff, and
10/12 – 11/12 Popoloped Creek) operated by the NYSBA over the Hudson River. Bridge ty	ypes include suspension, deck truss,
5/11 - 11/11 cantilevered through truss, and combinations thereof. (3 truss bridges and 2 s	

Firm en	Firm employed by Modjeski and Masters, Inc.											
Name	Matthew	J. Miller, PE			Years of relevant experience with this employer 11							11
Title	Associate	Field Services			Years o	f releva	ant exp	erience	with othe	r employ	yer(s)	0
Degree	(s) / Years /	Specialization		BS	2010	Civil	Engine	eering				•
Active	registration	number / state / ex	xpiration date	3953	34	LA	09/3	0/2023				
			_	NBI	S Certifie	ed Insp	ector					
				Wor	k Zone T	raining'	g Comp	oliant				
Year re	gistered	2015	Discipline	Civil								
Contrac	et role(s) / b	rief description of	responsibilities									
Mr. Mil	ller is a regi	stered professiona	al engineer with 1	0 year	s of expe	erience	in the	Field Se	rvices Sec	ction in t	he New Orle	ans Office.
During	his time at	M&M, Mr. Miller	has been primari	ly inv	olved wit	th CE&	tI inspe	ection se	rvices on	bridge re	epair and cor	nstruction
1 3	*	the detailed, interi	.	L								
_	• •	ions and troublesh	_				•	_	-	•		-
	_	NHI Bridge Inspec		d FHV	WA-NHI	Safety	of In-	Service :	Bridges c	ourses, e	-Railsafe Sat	fety Training,
		and Rope Access	1 0									
	ence dates	Experience and										
` .	/–mm/yy)	"designed interse									licable MPR	(s).
8/19 – 4		•	Bridge Annual In	_	•							
12/18 –		_	ng Bridge is a ste			_			_			1 1
11/15 -			in bridge crossin									
10/14 –			our deck truss sp			-					-	
10/13 –	- 11/13	1 1	531 feet, and a s		ded span	of 503	feet. N	⁄Ir. Mille	er served a	as a bridg	ge inspector a	and team
10/10			spection of this bi									
10/18 –	- 12/18	_	ge Emergency Ins	-		-						
		,	mounted crane w		U 1							
		_	the vertical clear		-			•				
			the truss. The im		_	•		_				
		*	the box member a		_						•	
			th compression m				•					_
		•	l began the task o		_						,	
			ant for bridge repa			_	_					~ ~
		M&M to perform	m an emergency h	ands-	on inspec	ction us	sing teo	chnical r	ope acces	s technic	ques. The ins	pection team

	documented the primary damaged member as well as a host of other damaged elements, including bottom
	laterals, stringer bearings, and gusset plates. Technical rope access was critical in locating and documenting all
	damaged bridge elements. M&M also provided construction engineering and inspection of the repair efforts.
	Mr. Miller provided emergency inspection and CE&I services.
11/13 – 1/14	44-2687 In-Depth Inspection of Complex Structures Retainer – Various Bridges, Statewide LADOTD
11/13 - 1/14	As a member of a multi-firm team, Modjeski and Masters was tasked to provide Structural, Mechanical,
	Electrical, and Coatings inspection services to perform multiple In-Depth Bridge Inspections for various bridges
	throughout the state of Louisiana, as a part of the ongoing statewide Complex Structures Inspection Retainer with
	the LADOTD. The list of bridges in this contract included the Gramercy Bridge over the Mississippi River, the
	I-210 Bridge over Prien Lake, Louisa Bridge over the Intracoastal Canal, and the LA 47 Bridge over the
	Mississippi River Gulf Outlet. The inspections were performed using technical rope access and rappelling, aerial
	work platforms, and standard climbing techniques. Bridge conditions, including specific defects, were
	documented and presented in an inspection report and PONTIS/Inspect-Tech forms, along with repair
	recommendations and a full coatings evaluation report. Mr. Miller was an inspection team member for this
0.4/1.6 0.1/1.0	project, responsible for coordination assistance with subconsultants, and preparing the inspection report.
04/16 – 01/18	Union Pacific Railroad System Wide Inspections UPRR Systemwide
	Modjeski and Masters performed a system-wide inspection of steel bridges for Union Pacific Railroad (UPRR).
	A total of 1,280 bridges were inspected. The types of bridges inspected include through trusses, deck trusses,
	through plate girders, and deck plate girders on steel towers. Also included were movable structures such as
	bascule, swing and vertical lift bridges. Modjeski and Masters provided uniformity throughout the entire system
	by identifying inconsistencies in describing levels of severity noted with deficiencies and assisted the UPRR
	inspectors in identifying problem areas and the causes associated with them. Mr. Miller was the inspection team
	leader for this project.
7/14-9/14	Belle Chasse Lift Bridge Inspection. Belle Chasse, Louisiana New Orleans & Gulf Coast Railway
	The New Orleans & Gulf Coast Railway selected M&M to perform an in-depth structural, mechanical and
	electrical inspection of the Belle Chasse Bridge over the Intracoastal Waterway. All structural members were
	observed at close range along with a close visual inspection of the electrical and mechanical systems. The
	inspection team took measurements of metalwork losses that could possibly result in reduced load carrying
	capacity of the structure. Mr. Miller served as inspection team leader for this bridge.

Firm employed by Modjeski and Masters, Inc.										
Name Timothy	P. Sensebe, EI			Years of relevant experience with this employer	6					
Title Field Ser	vices Engineer			Years of relevant experience with other employer(s)	0					
Degree(s) / Years	/ Specialization		BS	2015 Civil Engineering						
Active registration	number / state / exp	ration date	EI.33	3006 LA 3/31/23						
Year registered	2016	Discipline	Civil							
	orief description of re									
				the Field Services Section. His experience includes highway						
		ection and cons	tructio	on monitoring. Mr. Sensebe is a FHWA Certified Bridge Ins	pector and					
is an Inspection To										
Experience dates	_			o the proposed contract; i.e., "designed drainage", "design	•					
(mm/yy-mm/yy)	<u> </u>			dates should cover the time specified in the applicable MPR	(s).					
6/2020-5/2021				and Construction Support United Bridge Partners	D .11					
		_		ong precast segmental bridge that spans over several rail line	•					
	*			ast Chicago, IN. The new structure will consist of 29 cast-in	1					
		1 1	-	ensioned concrete single cell box girders segments which for will restore entrance into the Northwest Indiana area. Modic						
				ridge Partners to perform a fully independent review on the c						
	*	•		rovide an on-site presence for completion of construction of	•					
			-	ruction work is ongoing. Mr. Sensebe is assisting with consti						
	engineering and ins	_			action					
6/2016-7/2020				Rehabilitation Jefferson Parish Dept of Engineering						
	_		_	Harvey Canal is a four-lane highway bridge. The main bridge	e portion of					
		_		d plate girder, double leaf, trunnion type bascule with an ope	-					
	deck. The approach	spans are com	prised	of steel girder spans and concrete girder spans with concrete	e decks,					
	and concrete slab sp	oans with curtai	n wal	s. Modjeski and Masters performed an in-depth inspection of	of					
	structural, mechanic	al and electric	al com	ponents and approach spans including a coatings inspection	of the steel					
		-		capacity rating analysis of the structure and developed a wri						
				commendations. M&M performed UT investigations of the	_					
	hanger pins, assessed the different brake systems for the bridge and developed mechanical and electrical contract									
				provided construction monitoring services. Mr. Sensebe pro	vided					
	construction monito	ring services for	or this	project.						

3/2019-6/2020	Bonnet Carre Trestle Bridge Replacement- CE&I Laplace, Louisiana Canadian National Railway The existing bridge was one of three railroad crossings and a highway crossing that were built in 1934 to accommodate the construction of the Bonnet Carre Spillway. The trestle is 11,753 feet long and was opened to rail traffic in 1934. The superstructure is ballast deck timber trestle with the exception of 13 concrete fire breaks, five (5) concrete DVB spans, one (1) steel beam span and five (5) steel TPG spans. The replacement structure was designed on an offset alignment for an overall new length of 11,711' with a horizontal offset of approximately 50' east, with an exception near each end of the bridge where the alignment will transition back close to the existing track in order to utilize the old approach embankments. The new construction is precast concrete design with the superstructure composed of PPC DVB spans and the substructure consists of 1,139 24" square precast prestressed concrete piles supporting two (2) precast abutment caps with precast backwalls and 299 precast pier caps for 3, 4 and 6-pile piers. Modjeski and Masters provided professional CE&I services for the bridge replacement. These services included providing an on-site resident engineer with responsibility for daily construction inspection. Other specialized personnel was provided as needed to manage, inspect, test and otherwise oversee tasks involved with this project. Mr. Sensebe assisted with the construction engineering and
7/2014 5/2015	inspection services.
5/2014-6/2016	US 190 Mississippi River Bridge - Construction Engineering and Inspection (Repairs). Baton Rouge, Louisiana Louisiana Department of Transportation and Development M&M was retained by the LADOTD to provide construction contract administration and construction engineering and inspection services required during the repairs to the US 190 Mississippi River Bridge in Baton Rouge, Louisiana. Included in the project are assorted repairs and replacement of elements in the steel approach spans and main span, navigation light repair, construction of retaining walls, guard rail placement and miscellaneous pavement repair. Mr. Sensebe assisted with the construction engineering and inspection services for this project.

Firm employed	d by Modjeski and Mas	ters, Inc.									
Name Jasor	n W. Miles, PE	,		Years of relevant experience with this employer 13						13	
Title Assoc	ciate - Structures			Years o	f releva	ant e	experience v	with other	employer(s	s)	0
Degree(s) / Ye	ears / Specialization		BS	2008	Civil						•
Active registra	tion number / state / exp	iration date	3777	3	LA	09	9/30/2023				
Year registered	Year registered 2013 Discipline C										
Contract role(s	s) / brief description of re	esponsibilities									
Mr. Miles atter	nded the AASHTOWare	Bridge Rate (E	BrR) m	eeting ti	tled "A	ASI	HTOWare E	Bridge Des	ign and Ra	ting Soft	ware User
	g" in August 2014 and 20		-								
	lge Superstructures and N					_					
1 -	th finite element analysis		hrough	the use	of Lusa	as so	oftware to cl	heck AAS	HTOWare	BrR resu	lts. He will
	d Rating and Analysis E										
Experience	Experience and qual										
dates (mm/yy-	- "designed intersection	n", etc. Experi	ence da	ates shou	ıld cove	er th	he time spec	ified in the	e applicable	e MPR(s)).
mm/yy)											
11/19 – 06/21	H.009859.1: Load Ra Modjeski and Masters,	Inc. is performi	ng plan	and doc	ument re	etrie	eval, bridge in				
	sampling/instrumentati			•						•	•
	bridge types include sw										
	is generating a system a members. For the bridge										
	bridges, a three-dimens										
	for complex substructi										
	AASHTO Manual for										
	LADOTD Bridge Desi										
	team of over 10 rating										
10/18-03/19	H.012343.6 Sunshin	_		_	-	_					
	The Louisiana Route		_				_	_			
	over the Mississippi l							-			•
	and provide up to 133				_					-	
	was traveling upstrea										•
	*	bassed underneath the bridge, and the back-stay of the crane impacted the downstream bottom chord of the truss.									
	The impact caused sign	The impact caused significant damage to a bottom chord member, tearing off the bottom plate of the box member									

	and inducing severe out of plane distortion. The member in question was a primary load path compression member,
	designed to carry 1,700 kips of dead load. LADOTD closed the bridge to traffic directly after the incident and
	engaged Modjeski and Masters to perform an emergency hands-on inspection using technical rope access
	techniques. With the damage documented, work on repair concepts began. Mr. Miles served as a lead engineer and
	structural analyst for this emergency project.
10/17- 08/19	H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD
	Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection and analysis, and load and
	resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and
	substructure components are being rated. Bridge inspections are focusing on gusset plates and existing member
	conditions for rating. AASHTOWare BrR is being used for the ratings, which follow current AASHTO Manual for
	Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge
	Design and Evaluation Manual. Mr. Miles participated in the load rating analysis and reporting for this project.
02/16 - 10/17	H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD
	Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection and analysis, and load and
	resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing
	spans. Gusset, truss, floorsystem and substructure components are being rated. Bridge inspections are focusing on
	gusset plates and existing member conditions for rating. AASHTOWare BrR is being used for the ratings, which
	follow current AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating
	and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Miles participated in the load rating
	analysis and reporting for this project.
07/15 - 12/16	H.009859.5 (A): Rating and Posting of On-System State Bridges. Louisiana LADOTD
	M&M performed load rating analyses for 110 existing bridge structures using the Load and Resistance Factor
	Rating Method. Elements to be rated include superstructure and substructure components. Provisions in the 2011
	AASHTO Manual for Bridge Evaluation as well as LADOTD Policies and Guidelines for Bridge Rating and
	Evaluation were followed. Mr. Miles participated in the load rating analysis and reporting for this project.
06/2013 -	H.009479: LA 1 West Larose Vertical Lift Bridge over ICWW, Larose, LA
06/2014	M&M was charged with the development of plans and specifications to rehabilitate and extend the life of this
	vertical lift bridge for 30-40 years. This includes structural, mechanical, electrical and architectural disciplines.
	Work included site inspections, scope development, preliminary and final design. Mr. Miles performed
	AASHTOWare Bridge Rate (BrR) ratings of the bridge.

Firm employe	ed by Modjeski and Ma	sters, Inc.						
Name Josh	ua J. Moore, PE	,		Years of relevant	experience with this employer	15		
Title Seni	or Engineer & Field Insp	ector		Years of relevant	t experience with other employer(s)	0		
Degree(s) / Y	ears / Specialization		BS	2006 Civil				
Active registr	ation number / state / exp	oiration date	3634	2 LA	09/30/2023			
			NBIS	S Certified Inspect	or / Sprat Level III Certified			
				k Zone Training C	ompliant			
Year registere	,	Discipline	Civil					
	(s) / brief description of r	1						
					e of Modjeski and Masters, Inc. since 2			
_		_		_	ection and has been involved in a varie			
1 0		•		•	uctures. Mr. Moore is also a trained an	d experienced		
					requiring Technical Access.			
Experience da					ontract; i.e., "designed drainage", "des			
(mm/yy-mm/	• • •				er the time specified in the applicable M	PR(s).		
11/18-ongoin		0			g, Louisiana LADOTD	D		
					vestigation of latent defects in the Luli	_		
		•			and evaluate existing project documents and anchorages and developing a report			
	and associated reco		ation o	of the stay cables a	nd anchorages and developing a report	of the findings		
11/13 - 02/14			of Co	mnley Structures	s Retainer – Various Bridges, Statew			
10/16 - 12/16					was tasked to provide Structural, Mech			
10,10 12,10		· ·			Itiple In-Depth Bridge Inspections for v			
					statewide Complex Structures Inspection			
					technical rope access and rappelling, a			
					itions, including specific defects, were			
		and presented in an inspection report and PONTIS/Inspect-Tech forms, along with repair recommendations and						
	a full coatings eval			-				
10/17-08/18		_	_	O	d Evaluation. Louisiana LADOTD			
					ent retrieval, bridge inspection and anal			
		_		•	nainly steel vertical lifts. Gusset, truss,	•		
	and substructure co	omponents are b	eing ra	ated. Bridge inspec	ctions are focusing on gusset plates and	existing		

	member conditions for rating. AASHTOWare BrR is being used for the ratings, which follow current AASHTO
	Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and
	LADOTD Bridge Design and Evaluation Manual. Mr. Moore participated in the load rating of the bridges.
02/16-10/17	H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD
	Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components are being rated. Bridge inspections are focusing on gusset plates and existing member conditions for rating. AASHTOWare BrR is being used for the
	ratings, which follow current AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines
	for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Moore participated in the load rating of the bridges
6/06 – 4/15	S.P. 700-18-0014: Huey P. Long Bridge Widening, New Orleans, LA
	The widening project for the Huey P. Long Bridge included new vehicular approaches on both sides of the
	Mississippi river plus making the main bridge into a three-barrel truss structure. This complex bridge carries
	three vehicular lanes in each side of two railroad tracks. M&M was charged to rate the widened portion of the
	bridge including the railroad. Mr. Moore participated in the rating of the bridge and bridge inspection as well as
	shop drawing review for the superstructure and substructure.
04/13 - 2/14	H.009859: Crescent City Connection, Bridge No. 1, New Orleans, LA
	This Task Order consists of inspection and LRFR load rating for the Greater New Orleans Bridge No. 1 – a
	complex steel cantilever through truss bridge. The rating is to include the superstructure, (including gusset plates
	and deck), selected substructure elements and piers. Mr. Moore participated in the gusset plate inspection of the
	bridge looking for distortion, loose fasteners, cracks and section losses. He also performed camera imaging to
	confirm gusset plate details
04/12 - 01/13	Lapalco Boulevard, Harvey Canal Bridge. Harvey, Louisiana Jefferson Parish
	The Lapalco Boulevard Bridge over the Harvey Canal in Harvey, Louisiana is a four-lane highway bridge. The
	main bridge portion of the Lapalco Boulevard Bridge over the canal is a welded plate girder, double leaf,
	trunnion type bascule with an open grid deck. The approach spans are comprised of steel girder spans and
	concrete girder spans with concrete decks, and concrete slab spans with curtain walls. Mr. Moore supervised the
	production of pin replacement plans and also provided quality control.

Firm employed b	y Modjeski and Mas	ters, Inc.							
	W. H. Costigan, PE	,		Years of relev	7				
	r – Field Services			Years of relev	vant	experience	with other en	nployer(s)	0
Degree(s) / Years	s / Specialization		BS	2015 Civil	il				
Active registration	on number / state / exp	iration date	0044	4328 LA	0	09/30/2022			
_	_		Worl	k Zone Training	ng Co	ompliant			
			NBIS	S Certified Insp	pecto	or			
Year registered	2020	Discipline	Civil	1					
Contract role(s) /	brief description of re	esponsibilities							
Mr. Costigan join	ned M&M in 2015 and	l is a Structural	Engin	neer Intern for the	the F	Field Servic	e Section. His	experience inclu	des highway
and railroad large	e river and movable br	ridge inspection	, desig	gn and construc	ction	n monitoring	g. He has been	n the resident eng	gineer on a
	bridge roadway gratir	U 1				_	• •	1 0	
	oridge link pin replace			_		•		•	•
	gns following inspection	_		•				and is an Inspect	ion Team
	participates in Modjes								
Experience dates	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",								
(mm/yy–mm/yy)									
12/19 - 12/20	Alaska Bridges Ins								_
	Modjeski and Maste								
	rating, pin and gusse		_	•		_			•
	910' ft deck arch bri and flanking deck tr	•		• •	_	_		•	_
	bridge over the Tana					•		_	
	approach includes 1	•	_	•			•	_	•
	over the Susitna Riv								
	includes several TPC		_			_	*	•	* *
	and was the team lea								
	work, standard clim								responsible
	for authoring the 30 day and 90 day inspection reports for these three bridges.								
10/18-03/19	H.012343.6 Sunshin	_		~ •	_				
	The Louisiana Route		_			_	•		
	the Mississippi Rive								
	provide up to 133 fe	et in vertical cle	arance	e above high wat	ater.	On Octobe	r 12, 2018, a b	parge mounted cra	ne was

Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team.		
caused significant damage to a bottom chord member, tearing off the bottom plate of the box member and inducing severe out of plane distortion. The member in question was a princarinary load path compression member, designed to carry 1,700 kips of dead load. LADOTD closed the bridge to traffic directly after the incident and engaged Modjeski and Masters to perform an emergency hands-on inspection using technical rope access techniques. With the damage documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspection and analysis, and load and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation. He LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was resp		
severe out of plane distortion. The member in question was a primary load path compression member, designed to carry 1,700 kips of dead load. LADOTD closed the bridge to traffic directly after the incident and engaged Modjeski and Masters to perform an emergency hands-on inspection using technical rope access techniques. With the damage documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspection focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Hotolofic Was and Masters, Inc., provides the following services for this bridge: annual routine inspec		
carry 1,700 kips of dead load. LADOTD closed the bridge to traffic directly after the incident and engaged Modjeski and Masters to perform an emergency hands-on inspection using technical rope access techniques. With the damage documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare Brk was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare Brk was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosse		
and Masters to perform an emergency hands-on inspection using technical rope access techniques. With the damage documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspec		
documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or R		
the construction engineering and inspection of the repair efforts. H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspection focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, I/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of		
H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections for gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, Ne		
Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, I/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge,		
resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a r	2/17 - 6/17	
substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechani		Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and
rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge		resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and
LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		
Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the
H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation
Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader
resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and	3/16 - 7/16	H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD
Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and
existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans.
Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 in- depth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/replacement design and		Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and
Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation. Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO
Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge
The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation.
River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 indepth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and	11/15-2/16	Huey P. Long Inspection. Jefferson Parish, LA. Public Belt Railroad
depth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and	10/17-4/18	The Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi
services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team. H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		River. Modjeski and Masters, Inc. provides the following services for this bridge: annual routine inspections, 1/3 in-
H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		depth inspection each year, analysis of special railroad loading, emergency accident inspections repairs, engineering
Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		services for bridge maintenance, valuation (or Replacement Value). Mr. Costigan was part of the inspection team.
South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and	5/16 -07/16	H.010016: US 11 Bridge over Lake Pontchartrain, New Orleans, LA
determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		Within the US 11 Bridge, commonly known as the 5 mile bridge, are two double-leaf bascule spans (North Draw and
rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and		South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to
		determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare
documentation.		rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/ replacement design and
		documentation.

	nployed by	Modjeski and Mas	ters, Inc.							
Name	Bryan E.	Swartz			Years of relevant experience with this employer	15				
Title	Engineeri	ng Technician			Years of relevant experience with other employer(s)	6				
Degree	(s) / Years	/ Specialization		High	School Diploma 1999					
Active	registration	number / state / exp	iration date	l l	CE Certified Coating Inspector No. 10929					
				l l	S Certified, Work Zone Training Compliant					
			T	SSP	C C-3					
	gistered		Discipline							
		orief description of re								
					Engineering Technician. He has participated as an Inspection					
					bridges of various types. Many of the bridges have been in					
					coatings inspections of bridges. Mr. Swartz is qualified as					
					training and is a NACE Certified Coating Inspector – Level					
	ence dates									
	/–mm/yy)									
08/12 -	- 04/18	H.000343 US 190 Huey P. Long Bridge Construction Engineering & Inspection, Baton Rouge, LA.								
		1 0 1		_	eering and inspection services for the through truss cantilev	_				
					ne over the Mississippi River in Baton Rouge, LA. Due to p					
					he bridge has experienced significant corrosion issues. The					
					s such as replacing elements in the steel approach and main					
					g retaining walls, placing guard rail, and repairing pavement					
				-	int inspection, as well as environmental monitoring services on sists of structural repair, cleaning and painting of the steel	-				
				,	astruction engineering and inspection services for the repain					
		bridge.	Swartz provid	eu con	istruction engineering and inspection services for the repair	ung or uns				
11/15 -	.05/17		ver Mississinn	i Rive	er (GNO 2) Structural Repairs and Spot-Painting, New O	Orleans I A				
11/13 -	03/17				` '	,				
			M&M prepared plans for the repair and repainting of the Greater New Orleans Bridge No. 2 main bridge unit. Plans were also prepared for the repair of the fender, loose, missing and deteriorated fasteners and roadway							
			oints that had worn over time. Mr. Swartz provided construction engineering and inspection services for this							
		project.			F					
		1 -J								

08/16-05/17	H.011482 US 90 Huey P. Long Bridge Cleaning and Painting (Segment 7), Jefferson Parish, LA
	The project provided for the development of plans and specifications for the removal of lead paint and the
	recoating of the original bridge trusses and bracing above bridge deck level. CE&I services and a Level 4
	Transportation Management Plan were provided. Mr. Swartz assisted in developing the plans and specifications
	for this project. Mr. Swartz also provided Quality Assurance for the cleaning and painting portion of the
	project. This included QA inspection of cleaning and painting activities, preparing daily and weekly reports,
	preparing monthly estimates for work completed by the contractor, and verifying contractor compliance with the
	contract plans and specification
04/15-06/16	H.009326.6 I-10/I-610 Bridge Repairs and Painting, Orleans, St. Charles and St. John Parishes
	The project provided for the complete cleaning and removal of existing coatings, application of new paint, and
	disposal of material in steel spans in the I-10/I-610 bridge near New Orleans, LA. Along with its sub-consultant
	KGC Environmental Services, Inc., M&M is providing CE&I services to perform all painting inspection and
	environmental monitoring services. Mr. Swartz is the Coating Inspector for this project.
04/04-02/05	US 90 Huey P. Long Bridge (multiple segments 2, 3, 4, 5 and 7), Jefferson Parish, New Orleans Public Belt
02/05-06/06	Railroad
08/06-02/08	The cleaning and repainting of various features of the Huey P. Long Bridge. Mr. Swartz provided inspection of
08/16-05/17	surface preparation and coating application for over two miles of elevated steel trestle.
02/10-04/12	Illinois River Bridge No. 552 - Construction Services. Divine, Illinois Canadian National Railway
	The Illinois River Bridge, No. 552, was originally built as four 154-foot fixed through truss spans and was
	converted to a vertical lift bridge 80 years ago. M&M designed the replacement vertical lift span of 348 feet with
	a maximum lift vertical clearance of 56 feet. M&M also collected relevant data, evaluated alternatives,
	established design criteria, cost estimates, prepared project report, and provided the final vertical lift bridge
	design. M&M is providing construction management services. Mr. Swartz provided CE&I services for this
	project.
05/12-08/12	H.009328.5) Mississippi River Bridge (Cleaning and Spot Painting) I-10 Main Bridge
	The project involved the development of plans, specifications and construction services (Stage 5, Parts 1 & 2)
	for the cleaning and repainting of the main bridge of this I-10 Mississippi River crossing. Mr. Swartz assisted in
	developing the plans and specifications for this project.

Firm employed by Modjeski and Masters, Inc.							
Name	Scott C.	Gordon			Years of experience with this firm/employer	21	
Title	Senior To	echnician III			Years of experience with other firm(s)/employer(s)	5	
Degree	(s) / Years	/ Specialization		High	School 1995		
					ous Training Courses		
Active	registration	n number / state / exp	iration date	NAC	CE Certified Coating Inspector No. 8115 (Level 3 and Peer F	Review)	
					S Certified		
					k Zone Training Compliant		
			T	ASN	T Level II		
	gistered		Discipline				
		brief description of re			n Leader, Structural Bridge Inspector and UT Inspector.		
-	ence dates			vant to	the proposed contract; i.e., "designed drainage", "designed	girders",	
	/–mm/yy)	"designed intersecti					
05/16 -	Ongoing	C			ew Orleans, LA Louisiana Department of Transportati		
		_	-		echanical, electrical, and architectural rehabilitation services		
					outh bascule spans. The North bascule span is the only routi		
					improving the structural capacity to eliminate the weight po		
					ged, and the span converted to hydraulic operation. The Sou		
					ne) when access is needed to service electrical utility lines of		
					nprove the structural capacity to eliminate the weight posting		
					bilitated to retain their historic appearance. The bascule spar		
					7-mile bridge over Lake Pontchartrain. Mr. Gordon performe		
				mme u	he depths of each crack. He also provided CE&I services du	uring the	
11/13 -	11/10	construction of the		onicio	no Donautment of Transportation	_	
11/13 —	11/18				na Department of Transportation nent of the pinned connections for approximately fifty bridg	res through	
					ed by FHWA publication FHWA-HRT-04-042 "Guidelines		
					The ultrasonic inspection is conducted using both straight a		
					able of detecting any and all defects/flaws at critical location		
		Gordon was part of			toto of detecting any and an defects/flaws at efficient focation		
08/12 -	06/18	-			e Construction Engineering & Inspection, Baton Rouge,	LA.	

	This project provided construction engineering and inspection services for the through truss cantilever bridge that carries US 190, as well as one rail line over the Mississippi River in Baton Rouge, LA. The 12,000+ foot bridge was in need of several repairs such as replacing elements in the steel approach and main spans, repairing navigation lighting, constructing retaining walls, placing guard rail, and repairing pavement. M&M is also providing project administration, paint inspection, as well as environmental monitoring services during construction. The construction project consists of structural repair, cleaning and painting of the steel superstructure. Mr. Gordon provided construction engineering and inspection services for the repainting of this bridge.
03/15-06/15	Gramercy Mississippi River Bridge 2015 Inspection. Gramercy, Louisiana Louisiana Department of Transportation M&M performed a structural inspection of selected areas on the 3,101-foot cantilevered truss bridge at Gramercy, LA. M&M was responsible for the inspection from PP 12 to PP 24 on the main bridge trusses and the associated bracing between the two points. M&M also performed a coating inspection and evaluation of the entire main span of the structure. Technical access was used to assist in the inspection of the top 83 feet of the structure. Mr. Gordon was part of the inspection team.
02/14-03/14	Delair Truss Pin Inspection & Testing. Philadelphia, Pennsylvania Conrail Shared Assets M&M provided a hands-on visual inspection of each of the 208 pin connected truss joints of the main span of the Delair Bridge and provided recommendations for a non-destructive testing program for the pin-connected truss joints on the structure. Under phase II of the project, Ultrasonic Testing of 10% to 15% of the 208 pin connected truss joints was performed. Mr. Gordon was part of the inspection team.
5/10-09/13	Galveston Railroad Bridge - Construction Services, Galveston, TX This project provided for the replacement of the existing 115 ft. span Scherzer Rolling Lift Bascule bridge in the Galveston Bay Railroad Causeway with a 385 ft. simple truss vertical lift bridge. The replacement bridge is a single-track, open deck, simple through Warren Type truss span and provide 300 ft. of horizontal clearance and 73 ft. of vertical clearance over the Intracoastal Waterway.
10/01-12/01 10/02-12/02 10/03-12/03 10/04-12/04 10/05-12/05 10/06-12/06 10/07-12/07 10/08-12/08	Huey P. Long Bridge Annual Inspections. Jefferson Parish, Louisiana New Orleans Public Belt Railroad A high-level combination highway and railroad bridge which crosses the Mississippi River in New Orleans, Louisiana and is part of the complex urban freeway system in the area. The total structure length, including approaches, is approximately 23,000 feet. The main span unit is 3,524 feet long, consisting of a 750-foot cantilever through truss span, two 530-foot anchor truss spans, one 530-foot simple through truss span, and four deck truss spans. M&M has routinely performed yearly NBIS inspections since its opening. Mr. Gordon was part of the inspection team.

Firm employed by Vectura Consulting Services, LLC Name Sheelagh Brin Ferlito, PE, PTOE Years of experience with this firm/employer Title Principal Years of experience with other firm(s)/employer(s) Degree(s) / Years / Specialization B.S. / 1988/ Civil Engineering Active registration number / state / expiration date PE.0025383 / LA 9/30/2023 Year registered 1993 Discipline Civil Contract role(s) / brief description of responsibilities Traffic Signal Design Supervisor / QC for TMP Experience dates Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(07/19 - current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
Degree(s) / Years / Specialization Active registration number / state / expiration date PE.0025383 / LA 9/30/2023 Year registered 1993 Discipline Civil Contract role(s) / brief description of responsibilities Traffic Signal Design Supervisor / QC for TMP Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(17/19 - current 18.S. / 1988/ Civil Engineering PE.0025383 / LA 9/30/2023 Traffic Signal Design Supervisor / QC for TMP Experience dates dates (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(17/19 - current 18.S. / 1988/ Civil Engineering PE.0025383 / LA 9/30/2023	ed girders", (s). the project
Active registration number / state / expiration date Year registered 1993 Discipline Civil Contract role(s) / brief description of responsibilities Traffic Signal Design Supervisor / QC for TMP Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(07/19 - current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
Year registered 1993 Discipline Civil Contract role(s) / brief description of responsibilities Traffic Signal Design Supervisor / QC for TMP Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(07/19 - current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
Contract role(s) / brief description of responsibilities	the project
Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(07/19 – current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
(mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(07/19 - current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
07/19 – current H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is	the project
	1 3
manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Bu	
and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed us	0 0
rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the	
Public-Private-Partnership performed by Louisiana DOTD. She coordinated the detour plans base	sed on the
sequence of construction as part of the Level 2 Transportation Management Plan (TMP).	
02/20 – 11/21 H.010616 DOTD I:20 LA 544 Overpass Replacement (Ruston, LA) Brin is the project management (Ruston, LA)	_
Transportation Management Plan (TMP) as part of a design for a bridge replacement and three rour	
Ruston, LA. The TMP was a Level 2 and included evaluation of 10 Sequence of Construction Phase	
included rerouting traffic to other interchanges at nighttime only, rerouting traffic from I-20 to the of	
on ramp at nighttime only, and rerouting traffic to service roads in vicinity of the project. Brin coord	
queue analysis with DOTD to determine when lane closures would be allowed utilizing 24-hour tube of the development of temporary traffic signal plans for this project as well	counts. Sne
will also coordinate the development of temporary traffic signal plans for this project as well. 07/18 - 04/19 LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Part	ish Addis
LA Fredestrian Crosswalk Study and Traffic Fredestrian Signal Design West Baton Rouge Fairly LA Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the inte	, ,
LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk	
followed by traffic signal design plans based on DOTD requirements. The study included traffic and	
traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses.	
plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signal timing parameter calculations.	_
pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DO	_
Request for Intersection Control Devices on a State Right of Way.	. 12 I CHIII
09/16-04/17	rin was the
project manager of a formal DOTD traffic study for the new alignment of LA 3241 with the purpose of	

	both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. The traffic study included alternative analyses to improve the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. Specific access management features examined included intersection improvements, median openings, and U-turns, spacing and type of openings, signalization of intersections and roundabouts. Brin developed the safety analyses report for the project
08/12-05/13	H.009998 LA 935 Safety / Stage 0 Study (Ascension Parish, LA) Brin developed the safety analyses report for the Stage 0 Study. She coordinated and collected existing traffic data using Jamar equipment. She used HCS and Interactive Highway Safety Design Model (IHSDM) Software for the analyses. She developed MicroStation drawings with scaled aerials to show crash diagram locations as well as proposed alternate layouts. Histograms developed in Excel were used to show the comparison of various crash conditions with statewide averages. Crash records for 3 years were obtained from crash1 database.
06/02-04/04	SPN 737-94-0030 Shreveport ITS Near-Term Phase 3A (Shreveport, LA) Brin developed the construction plans for the design of ITS equipment on a 22 mile stretch of I-220 in Shreveport, LA. The project included 36 closed circuit television cameras, 5 dynamic message signs, and 143 radar vehicle detectors. Project included plan preparation of communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, estimated construction cost and terrain analyses.
06/01-08/03	SPN 737-94-0028 Shreveport ITS Near-Term Phase 1 (Shreveport, LA) Brin designed ITS equipment construction plans for a 10 mile stretch of I-20 in Shreveport, LA. Equipment included 17 Video cameras, 8 Dynamic Message Signs and 66 radar counters. This project included plan preparation of communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, estimated construction cost and terrain analyses.

(Add rows as needed)

Firm employed by Vectura Consulting Services, LLC						
Name Laurence	e Lucius Lambert, II, PE, PTOE, 1	PTP	Years of experience with this firm/employer	6		
Title Supervis			Years of experience with other firm(s)/employer(s)	18		
Degree(s) / Years	/ Specialization	B.S./1	997/Civil Engr. M.S./2006/Civil Engr. (Transportation focu	ıs)		
		M.B.A	A./2010			
	n number / state / expiration date		29901 / LA / 3/31/2024			
Year registered	2001 Discipline	Civil				
· · · · · · · · · · · · · · · · · · ·	brief description of responsibilities		c Signal Design QC / TMP Supervisor			
Experience dates (mm/yy–mm/yy)	1 1		the proposed contract; <i>i.e.</i> , "designed drainage", "design dates should cover the time specified in the applicable MPR			
02/21 - 03/21	H.013256.5 I-10 ITS Scott to Lal	ke Cha	rles (Southwest Louisiana) Laurence was the lead traffic	engineer for		
	a Level 2 Traffic Management Pl	lan (TM	IP) for the construction of ITS equipment along I-10. The pl	lan included		
			, LOS determination utilizing Citrix data, lane closure recom	nmendations		
	based on a queue analysis and publ	lic infor	rmation strategies.			
04/18 - 12/21			nger & I-10 Gonzales (Ascension, LA) Laurence provide	-		
	1		ruction and sequence of construction plans. Vectura al	1		
	` '	_	striping plans at 30% and 60% plan sets to ensure the re			
		_	tails Sheet PM-09 and the Manual on Uniform Traffic Con-	trol Devices		
10/17 10/10	(MUTCD) details on roundabouts.			.1 1 1		
10/17 - 10/18	•		Corridor Planning Study (Lafayette, LA) Laurence w			
			anning Study for LA 182. The scope focused on improving	•		
			it users. Laurence collected AM & PM peak vehicle turning ounts. Laurence coordinated with the Acadiana Planning Co.	_		
	1	•	volumes. Laurence then performed Highway Capacity Man			
	1 0	•	analyses for the signalized and roundabout controlled	•		
			vses of five intersections and the intermediate segments. B			
	results of the safety analysis, Laurence provided design criteria to the design team for improving safety of					
	pedestrians, bicycles, and vehicles.		provided design effected to the design team for improvi	ig surety of		
03/18-06/18	•		S Phase 2b (Shreveport, LA) Laurence was the task	leader for		
			onfiguration portions of the Systems Engineering Analysis			
			ns Title 23, 940.11). The Procurement task consisted of investigations.			
		_	ent project where the procurement options for the pros and co			

	method were documented. The Alternatives Analysis Configuration consisted of analyzing three possible project
	configurations where the pros and cons of the needed equipment and communication options were documented.
09/16 - 04/17	H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA) Laurence was
	the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining
	both existing and projected future traffic variables in accordance with standard operating procedures typically
	performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design
	year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and
	efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along
	with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning
	and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation
	model of the preferred alternative.
04/11 - 09/11	SPN 424-04-0032 US 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan (Iberia Parish, LA)
	Laurence developed a Maintenance of Traffic plan that accommodated the bridge and road widening, but also
	maintain passage of large trucks and freight through the heavily travelled corridor crucial for agricultural goods
	and farming. Laurence was the Lead Traffic Engineer for one of the first design-build projects undertaken by
	DOTD, which included the construction of a grade separated, diamond interchange to replace the existing US 90
	intersections with Louisiana 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards.
06/10 - 10/10	SPN 454-02-0071 I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic
	Plan (Livingston Parish, LA) Laurence was responsible for designing a Maintenance of Traffic plan that would
	keep drivers informed of real time traffic situations through a comprehensive traffic management system. Four
	lanes (two lanes in each direction) were to remain open during peak travel times throughout the length of the
0.4/05.10/05	project. Temporary lane closures only occurred at night.
04/07-12/07	SPN 737-99-0799 Baton Rouge to New Orleans ITS-TIM Phase 1 Design Build Project (Jefferson and St.
	John the Baptist Parishes) Laurence was the project manager for an ITS Design-Build project, where Laurence
	represented the DOTD ITS Section. Laurence was responsible for developing a Systems Engineering Analysis
	that was used to solicit proposals from Design-Build teams. Laurence also assisted the DOTD ITS Section with
09/06-09-07	the development of the Scope of Services Package (SOSP) that was used during the procurement process. FRD 06 CS HC 00013 Downtown Potent Project (Potent Pouge) Levence was the Project
09/00-09-07	EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project (Baton Rouge) Laurence was the Project Manager to develop construction plans to upgrade 29 signals in downtown Baton Rouge as part of the EBR Green
	Light Plan. He coordinated numerous utility conflicts during construction since current utility plans were not
	readily available in an old part of town. He made several signal pole foundation location adjustments based on
	numerous field visits with utility companies.
	numerous neig visits with utility companies.

Name Prasanth Malisetty, PE, PTOE, PTP, RSP1 Years of experience with this firm/employer 1	Firm en	nployed by	Vectura Consult	ing Services, L	LC		
Degree(s) / Years / Specialization B.E. / 2003/ Civil Engineering; M.S. / 2004/ Civil Engineering	Name	Prasanth	Malisetty, PE, PTO	DE, PTP, RSP	1	Years of experience with this firm/employer	1
Active registration number state expiration date PE.0035792 LA 3/31/2023	Title Senior Project Engineer					Years of experience with other firm(s)/employer(s)	17
Year registered 2010 Discipline Civil	Degree((s) / Years	/ Specialization		B.E.	/ 2003/ Civil Engineering; M.S. / 2004/ Civil Engineering	
Experience dates 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). "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). "H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Prasanth was the lead design engineering for temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. "H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis tools and recommend potential operation saf	Active 1	registration	number / state / exp	iration date	PE.00	035792 / LA / 3/31/2023	
Experience dates (mm/yy-mm/yy) (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). (msigned intersection in the applicable MPR(s). (msigned intersection in the applicable MPR(s). (msigned intersection in the sequence of construction present was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts ut IS 171 at Boone St. (Vernon Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction planes. (nsigned intersection for the roundabouts us IS 171 at Boone St. (Vernon Parish)							
 (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). 09/20 – 12/21 H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Prasanth was the lead design engineering for temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. 09/20 – 12/21 H.01096.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. 01/21 – 05/21 H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. 12/18 – 7/20 H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. 11/17 – 12/18 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis to							
H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Prasanth was the lead design engineering for temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. (Pornon Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. DOTD Traffic Engineering Contracts (Statewide,	-						
temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. 109/20 – 12/21 H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task							
H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Prasanth was the lead design engineering to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	09/20 –	12/21				, , ,	_
to produce the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. 101/21 – 05/21 H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	00/00	10/01					
30 in Gonzales, LA. This project consists of eight proposed construction phases. 101/21 – 05/21 101/3256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. 12/18 – 7/20 12/18 – 7/20 12/18 – 7/20 12/18 – 7/20 13/20 14/20 15/20 16/20 17/20 18/20 19/20 19/20 19/20 10/21 10/20 10/20 10/21 10/20 10/20 10/20 10/21 10/20 10/20 10/20 10/21 10/20 10/	09/20 -	12/21					
H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for				, .	_	<u>-</u>	bouts on LA
Reece were responsible for measuring anticipated construction quantities and producing a cost estimate for fifteen sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. 12/18 – 7/20 H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. BOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	01/21	05/21					Draganth and
sites along I-10 where CCTV cameras were being installed by using DOTD's Bid Tabulation and Cost Estimating Tool. 12/18 – 7/20 H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. BOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	01/21 -	03/21					
Tool. 12/18 – 7/20 H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. B/10 - 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for					_	1 1 0	
 H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. BOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for 			_	are eer v came	ius we	to being instance by using DOTD is Did Tubulation and Col	ot Estimating
feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included data collection, development of growth rates, existing and future traffic analyses. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. 11/17 – 12/18 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	12/18 -	7/20		ullivan Road t	o Libe	erty Road (Baton Rouge) Prasanth was the project manage	er to develop
responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. 11/17 – 12/18 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for							
performed the existing and future traffic analysis and propose potential alternatives to mitigate existing deficiencies. 11/17 – 12/18 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for			project included da	ta collection, de	evelop	ment of growth rates, existing and future traffic analyses. F	Prasanth was
deficiencies. 11/17 – 12/18 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for			1			<u>C</u>	,
 H.013264 District 08 Safety Investment Plan (Louisiana) Prasanth was the project engineer responsible for preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. BOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for 				sting and futu	re traf	ffic analysis and propose potential alternatives to mitig	gate existing
preforming districtwide safety analysis and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for							
potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for	11/17 –	12/18		•		, , ,	1
by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for							
Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for							
countermeasure with associated cost savings and perform benefit / cost analysis. 8/10 - 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for							-
8/10 – 2/18 DOTD Traffic Engineering Contracts (Statewide, LA) As a project engineer for numerous task orders for		· · ·					ich proposed
	8/10 - 2	2/18				<u> </u>	sk orders for
	0,10 2	-, 10		0		, , , , ,	

analysis, crash analysis, developing coordinated signal timing plans and field implementation / fine tuning along 27 corridors throughout statewide which involved 264 intersections. Following are the list of corridors

- District 04; LA 1, LA 526 & US 171, Shreveport, LA; LA 3, LA 3105 & LA 72, Bossier, LA 110 intersections, 7 corridors
- District 02; LA 3040 & LA 57, Houma, LA; LA 20, Thibodaux, LA; US 61, New Orleans, LA 44 intersections, 4 corridors
- District 62; US 11, Slidell, LA; LA 19, Baker, LA; LA 44, Gonzales, LA; LA 3124 & LA 60, Bogalusa, LA; LA 10 Franklinton, LA; LA 16, Amite, LA; LA 38, Kentwood, LA; LA 25, Folsom, LA 68 intersections, 9 corridors
- District 58; US 425, Vidalia & Ferriday, LA 11 intersections, 2 corridors
- District 08; LA 1208-03, US 71 & LA 28 21 intersections, 3 corridors

District 07; US 190 & US 171, DeRidder, LA – 10 intersections, 2 corridors

Firm en	nployed by	Vectura Consult	ing Services, L	LC		
Name		odrigue, PE, PTOE	,		Years of experience with this firm/employer	2
Title Project Traffic Engineer					Years of experience with other firm(s)/employer(s)	7
Degree((s) / Years	/ Specialization		B.S.	/ 2013/ Civil Engineering	
Active r	registration	number / state / exp	iration date	PE.0	042074 / LA / 3/31/2024	
Year reg	gistered	2017	Discipline	Civil		
Contrac	t role(s) / ł	prief description of re			ic Project Engineer	
Experie	nce dates				o the proposed contract; i.e., "designed drainage", "design	
	–mm/yy)				dates should cover the time specified in the applicable MPF	. /
01/21 -	05/21				arles (Lafayette, Acadia, and Jefferson Davis Parishes)	
					was tasked with reviewing the ITS plans for 15 sites along	_
			_		ce was responsible for measuring anticipated construction q	
0.7/2.1	~				ties by using DOTD's Bid Tabulation and Cost Estimating	
07/21 –	Current				Signal, Phase VB (Baton Rouge) Reece is part of the team	
			0	-	tion. Reece has reviewed the signal mast arm shop drawings	
		_			g the manufactured poles. Reece, with the DOTD, City-Pa	arish and the
09/20 -	10/01				rm pole foundation locations.	:
09/20 -	12/21				Boone St. (Vernon Parish) Reece is an essential design engrary signal design associated with the sequence of constru	
		\mathcal{C}		_	onducted a thorough analysis of the US 171 corridor's existing	
					ts that would be restricted during the proposed construction	
		how it would impact			0 1 1	process and
09/20 -	12/21	1			ger I-10 (Ascension Parish) Reece is a design engineer, wh	o is assisting
					design associated with the sequence of construction for the	
		-		_	consists of eight proposed construction phases. He assisted is	
		the temporary pole	heights, determ	ining 1	the placement location for the temporary poles for each phas	e, measuring
					ece conducted a thorough analysis of the LA 30 corrido	or's existing
allowable movements and identified the movements that would be restricted during the propose						construction
		process and how it				
04/20 -	Current			_	& Tunnel Replacement Public-Private Partnership Pr	•
		,	1 3		ponsible for designing the temporary traffic signal for the in	
	LA 23 at Engineers Rd. The design of the temporary signals is set for eight phases of construction per th					

	anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan, which were also used in planning for the permanent and temporary signal timing plans.
	Reece is also a valued design engineer responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. Reece maintains correspondence with the fellow design engineering team for product consistency.
	In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.
02/16 - 12/16	H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish) Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using the CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	Ochsner Main Campus Traffic Signals (Jefferson Parish) Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.

Firm employed l	y Vectura Consult	ing Services, L	LC			
	n Gahagan Farrington			Years of experience with this firm/employer	1	
Title Project Traffic Engineer				Years of experience with other firm(s)/employer(s)	7	
Degree(s) / Year	rs / Specialization		B.S.	/ 2014/ Civil Engineering		
Active registration	on number / state / exp	iration date	PE.0	042785 / LA / 3/31/2023		
Year registered	2016	Discipline	Civil			
	/ brief description of re			ic Project Engineer		
Experience				the proposed contract; i.e., "designed drainage", "designed		
dates (mm/yy-	"designed intersection	on", etc. Experi	ience (dates should cover the time specified in the applicable MPR(s).	
mm/yy)						
03/19 – 11/19			_	Ascension Parish) Kristen was the task leader for the prep		
		_		limited-access corridor (LA 429) near I-10, between LA 30,		
			•	g and reconstruction of LA 429 were evaluated. The scope of		
	_			s and data collection, phasing of alternative development for to on of probable cost to prepare the Stage 0 Report. Kristen so		
	1		-	high level concept exhibits and comparison matrix to dete		
				to meet the purpose and need of the project. Compiled mee		
	-	_		nterchange study consultants for a cohesive project, and wrot		
09/17 - 09/18				e 0 (LA 74 to LA 621) (Ascension Parish) Kristen was t		
		•	_	ort writing, and impact analysis for a Stage 0 study. The pur	_	
		1 1	· •	ves to improve capacity and operations along the LA 73 corn	1	
				cope included the evaluation of three interchange configurat		
	interchange of I-10	at LA 73 in co	njunc	tion with two corridor alternatives for LA 73, resulting in s	six different	
				acts, and high-level cost estimates were prepared.		
04/18 - 04/19				terchange Improvements Stage 0 (St. Landry Parish) Kris		
				safety analysis, report writing, planning, and designing for t	0	
	1	-		traffic operations and safety at the I-49 interchanges with US		
				ned using the LADOTD CAT Scan tool and IHSDM, and lin		
was prepared to DOTD Design Standards for various corridors, including arterial collectors						
	Close coordination with traffic engineer ensured maximum improvement of safety and operations given lirght-of-way and utility conflicts along the corridors.					
	right-of-way and uti	nty conflicts alo	ong th	e corridors.		

H.013817.1 A 117 Improvements Stage 0 (Vernon and Natchitoches Parishes) Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the Stage 0 report and coordinated with stakeholders and local agencies to ensure purpose and need of project is met.

To. Stall Experies								
	y Marrero, Couvillon & Associates		1 _					
	T. Miller, P.E.	Years of experience with this firm/employer	7					
	chanical Engineer	Years of experience with other firm(s)/employer(s)	29					
Degree(s) / Years	*	B.S. / 1986 / Mechanical Engineering						
Active registratio	n number / state / expiration date	#26080 / LA / 9.30.2023						
Year registered	1983 Discipline	Mechanical Engineering						
	brief description of responsibilities							
Mr. Miller has ov	er 35 years of engineering experience	in mechanical engineering, project engineering and project mana	gement.					
		nging from HVAC systems design to wastewater pump stations. I						
working with clie	ents in both the public and private sect	or, such as the Recovery School District in New Orleans, the Lou	isiana State					
Department of Tr	ansportation, the Ascension Parish Sc	chool Board, as well as various Architects and Engineering firms.						
Experience	1 1	ant to the proposed contract; i.e., "designed drainage", "designed g						
dates	"designed intersection", etc. Experie	ence dates should cover the time specified in the applicable MPR(s	s).					
(mm/yy–								
mm/yy)								
05/15-Present		idge Over Lake Pontchartrain Rehabilitation – Orleans, LA -	Mechanical					
		litation of two Operator's Houses at an existing bridge over Lake						
	_	s part of a larger bridge rehabilitation project. Design is sensitive	to the					
	historic nature of the bridge and Ope							
06/12-04/18		tical Lift Rehabilitation -Route: LA-1, Larose, LAEngineer						
	_	ilitation of the Operator's House at an existing bridge over the Intracoastal						
		f a larger bridge rehabilitation project.						
10/13-05/16		ey Bridge Rehabilitation, Jefferson Parish, LA Mechanical e	-					
	1	ator's House at an existing bridge over the Harvey Canal. Work w	as done as					
	part of a larger bridge rehabilitation							
04/09-04/12		ternational Airport, Airfield Lighting Vault, Kenner, LA - Me						
		lding to house airfield lighting control equipment. Construction w	as designed					
	to withstand the effects of a Category 4 hurricane.							
5/15-10/16		ow to Leeville, Golden Meadow, LA. – Project Manager for ligh						
	for 9 mile section of widened DOTD highway (LA 1 from Golden Meadow to Leesville). Electrical and controls							
	infrastructure for ITS equipment and	design of new toll booths.						

Firm employed	d by Marrero, Couvillon & Associate	s, LLC						
Name Gre	egory DeCoursey, AIA	Years of experience with this firm/employer	26					
Title Arc	hitectural Engineer	Years of experience with other firm(s)/employer(s)	20					
Degree(s) / Ye	ears / Specialization	B. Arch / 1977 / Architecture						
_	-	M.Arch / 1982 / Architecture						
Active registra	ation number / state / expiration date	#2620 / LA / 12.31.2021						
Year registered	d 1980 Discipline	Architecture						
Contract role(s	s) / brief description of responsibilities							
Gregory has po	erformed services as both Architect and	Project Manager for Engineering Projects for the Louisiana I	Department of					
Transportation	and Development and for other Public	Works and Private Sector Commercial projects.						
Experience		ant to the proposed contract; i.e., "designed drainage", "desig	ned girders", "designed					
dates	intersection", etc. Experience dates	should cover the time specified in the applicable MPR(s).						
(mm/yy-								
mm/yy)								
01/14-Present		ridge Over Lake Pontchatrain Rehabilitation – Orleans, I						
	_	Operator's Houses at an existing bridge over Lake Pontchartra						
		project. Design is sensitive to the historic nature of the bridg						
06/12-04/18		tical Lift Rehabilitation -Route: LA-1, Larose, LA Arch	*					
		on of the Operator's House at an existing bridge over the Intra	coastal Waterway. Work					
	was done as part of a larger bridge	1 0						
10/13-05/16		Louisiana DOTD, 4th Street Harvey Bridge Rehabilitation, Jefferson Parish, LA Architectural Designer for						
	-	use at an existing bridge over the Harvey Canal. Work was do	ne as part of a larger					
0.1/00.01/12	bridge rehabilitation project.							
04/09-04/12	_	nternational Airport, Airfield Lighting Vault, Kenner, LA	_					
	<u>e</u>	lighting control equipment. Construction was designed to with	istand the effects of a					
	Category 4 hurricane.							

Firm en	nployed by	: Fugro USA Land,	Inc.					
Name	Eric Mai	rx, PE			Years of relevant experience with this employer	21		
Title	Vice Pres	ident, Louisiana Ger	neral Manager		Years of relevant experience with other employer(s)	3		
Degree	(s) / Years	Specialization		MS /	/ 2001 / Civil Engineering			
				BS/	1999 / Civil Engineering			
Active	registration	number / state / exp	iration date	3147	79 / LA / March 31, 2023			
	gistered	2004	Discipline	Civi				
Contrac	ct role(s) / b	orief description of re	esponsibilities		technical Principal-in-Charge Mr. Marx will provide engineering ite of the program tasks as well as serve as the contract signatory for Fug.			
				Inc.	the of the program tasks as well as serve as the contract signatory for rag	510 ODT Land,		
Experie	ence dates	Experience and qua	alifications rele	evant t	to the proposed contract; i.e., "designed drainage", "design	ned girders",		
(mm/yy	/–mm/yy)	"designed intersection	on", etc. Expe	rience	dates should cover the time specified in the applicable MPF	₹(s).		
2001 –	current	Principal-in-Charge	, Fugro Louisia	ana Ge	eneral Manager. Eric Marx has provided geotechnical service	es on		
		, ,		,	ommercial and coastal infrastructure projects since joining F	_		
			_	and engineer-of-record on some of Louisiana's high-profile transportation				
		1 0	•	_	the I-10 Twin Span Replacement Project, John J. Audubon	•		
					s retainer contracts. Eric's role has involved managing and e			
					ield programs, achieving and maintaining laboratory certific			
					engineering analyses. Many of the projects have required acc	cess in		
					anced engineering evaluation.			
01/10 -			LADOTD Statewide Geotechnical Retainer Contract, Louisiana. Mr. Marx served as principal-in charge for					
08/20 -	Current				over 20 task orders for bridge structures across Louisiana w			
					work included soil borings (on land and in water), cone pen			
			0 0	_	nalysis, and design recommendations. Fugro was also retained			
		was Principal-in-Charge, negotiated and oversaw completion	n of task					
04/04					e client satisfaction on deliverables.			
04/04 -					isiana. Mr. Marx served as project engineer, project manage			
		• • •	_		ect. Fugro was selected by the Louisiana Department of Tra- assistance of selected Design Consultants, in evaluating the			
					regarding scour susceptibility. Since 2004, Mr. Marx has su			
					ouisiana including coordination of geotechnical field investi-			
	laboratory testing, and Electric Cone Penetrometer Test (ECPT) soundings. Geotechnical engineering analyses							

	included deep foundation evaluations on driven piles, drilled shafts and caissons for varying scour events and development of soil parameters.
09/17 - 07/19	Kansas Lane, Garrett Road Connector. Mr. Marx was Principal-In-Charge for Fugro and provided contract oversight for the project. Work included conducting geotechnical field investigations and geotechnical analyses for the roadway project with significant interaction with the local airport and businesses. Mr. Marx reviewed results of field and laboratory analyses and performed QA checks on deep foundation calculations, embankment settlement calculations of driven and drilled foundations and MSE Wall recommendations.
2015-2019	Livingston Parish Road Improvement Program, Livingston Parish, LA Mr. Marx Served as Principal-In-Charge. Livingston Parish funded this project to rehabilitate approximately 40 roads across the parish each year. Fugro's work included soil borings and collection of bulk samples, laboratory testing for classification and bench scale testing for cement treatment, engineering recommendations for pavement thickness and subgrade preparation, and construction materials testing observations to document compliance with plans and specifications Mr. Marx oversaw the field operations and engineering analyses.
2005-2008	Twin Spans Replacement Project, Orleans and St. Tammany Parishes, Louisiana. Mr. Marx was a Project Engineer on the project to replace the Twin Spans bridge damaged during Hurricane Katrina. Mr. Marx coordinated the field program which consisted of 30 soil borings and over 260 CPT's to depths between 100 and 190 feet in 15 feet of water. Mr. Marx helped develop the pile load testing program and performed axial and lateral pile capacity calculations using LRFD methodology.

Firm en	nployed by	: Fugro USA Lar	ıd, Inc.			
Name	Sam Bry	am Bryant, PhD, PE			Years of relevant experience with this employer	37
Title	Title Senior Geotechnical Consultant				Years of relevant experience with other employer(s)	0
Degree	(s) / Years	/ Specialization		PhD	/ 1983 / Civil Engineering	
				MS	/ 1979 / Civil Engineering	
				BS /	1978 / Civil Engineering	
Active	registration	number / state / exp	iration date	4069	95 / LA / 9-30-2022	
Year re	gistered	2016	Discipline	Civi	1	
Contrac	ct role(s) / b	orief description of re	esponsibilities		for Consultant. Dr. Bryant will guide engineering analyses nical review on project tasks.	and perform
Experie	ence dates	Experience and qu	alifications rele	evant	to the proposed contract; i.e., "designed drainage", "desig	ned girders",
(mm/yy	y–mm/yy)	"designed intersect	ion", etc. Expe	rience	dates should cover the time specified in the applicable MP	R(s).
supervising all phases of geotechnical engineering analyses and instrument infrastructure projects. He has perform embankment stability and settlement interaction. Dr. Bryant is currently set			ses of geotechnes and instrume ets. He has perfects and settlement is currently and analyses on two	ical in entation formed ent, ear serving wo larg	nager in geotechnical engineering. He has significant expervestigations including field exploratory programs, laborator n. Since 2013, Dr. Bryant's work has been focused on Louis dadvanced modeling for pile capacity, drilled shaft capacity rth retaining structures, pavements, seepage, and soil structure as the lead geotechnical engineer on an oversight team for ge river diversion projects. (Mid-Breton and Mid Barataria Structure)	ry, siana y, are or CPRA to Sediment
02/17 –	- (19/1 /	served as Geotechn existing roadway at During the project, • supervised t shallow soil • performed to performed to	ical Engineer-ond designing 6. he performed the geotechnical borings for parties foundation to be foundational to the foundational to the foundational to the foundation to the foundational t	of-Rec 1-mile he foll l data vemen i calcu ulation	collection for the project including deep soil borings for str	niles of ssings.
09/14 -	current				isiana. Dr. Bryant was a Senior Consultant for the project.	 Fiigro was
09/14 - current Bridge Scour Analysis, Statewide Louisiana. Dr. Bryant was a Se selected by the Louisiana Department of Transportation and Development of Selected Design Consultants, in evaluating the stability of critical by				Transportation and Development (LADOTD), with the ass	istance of	

	scour susceptibility. Dr. Bryant has assessed complex bridge structures, specifically large river crossings and performed engineering analyses including deep foundation evaluations for varying scour events and development of soil parameters.
09/17 - current	Kansas Lane, Garrett Road Connector and I-20 Improvements, Ouachita Parish, Louisiana. Dr. Bryant
	served as Geotechnical Engineer-of-Record for the project. The project consisted of widening existing roadway
	with new approach embankments and bridge structures. During the project, he performed deep foundation
	calculations including axial capacity, lateral capacity and settlement; performed pile length calculations for each
	bent along the structure; and performed settlement and stability calculations for new embankments up to 20-ft in
	height. Global stability and settlement were also performed on MSE walls.
09/13 - 03/17	LADOTD Statewide Geotechnical Retainer Contract, Louisiana. Dr. Bryant served as Senior Consultant for
08/20 - Current	this project which included performing over 20 task orders for bridge structures across Louisiana. The scopes of
	work include soil borings (on land and in water), laboratory testing, engineering analysis, and design
	recommendations. Fugro was also retained to install geotechnical instrumentation. He provided technical
	guidance on select task orders.

Firm employed by	y: Fugro USA Land, Inc.					
Name Paul Bullock, PhD, PE			Years of relevant experience with this employer	7		
Title Chief Engineer			Years of relevant experience with other employer(s)	35		
Degree(s) / Years	/ Specialization	PhD	/ 1999 / Civil Engineering			
			/ 1984 / Civil Engineering			
			1980 / Civil Engineering			
	n number / state / expiration date		2 / LA / 9-30-2022			
Year registered	2008 Discipline	Civi				
Contract role(s) /	brief description of responsibilities		or Consultant. Paul will provide technical consultation and	_		
			ask orders with deep foundation capacity evaluation, deep fo	oundation		
		testi	ng using PDA and load testing.			
						
Experience dates			to the proposed contract; <i>i.e.</i> , "designed drainage", "design	•		
(mm/yy-mm/yy)			dates should cover the time specified in the applicable MPI			
01/1980 -			rt on site characterization and evaluation of the performance			
current		ncludes dynamic monitoring using the Pile Driving Analyzer, Static Load				
	_	egrity testing of drilled shafts, cast-in-place, and driven piles. His career started working on site characterization and foundation evaluation of over 18 bridges.				
			s an Assistant Professor at The University of Florida betwee			
		_	2004 working for GRL Engineers where he continued to dev			
			ormance. Paul's experience expanded into Louisiana in 201			
	-	-	ge infrastructure projects in soft soil environments. He joine			
			nd advance the practice of deep foundations on large scale p	-		
			ablications and is a committee member/editor on ASTM and			
		_	ns. His Louisiana project experience is detailed below.			
2019			isiana. Senior Consultant, PDA tests and setup capacity eva	luation for		
	driven pipe piles.					
2015-2017		ckber	ry, Louisiana. Senior Engineer, performing PDA and static	tests for		
	DeWaal Piles.					
2010-2015 Permanent Canals & Closures Pumps Project, Orleans Parish, Louisiana. Senior Engineer, performin						
	PDA, setup curves and static tests	for dri	ven steel pipe piles and square concrete piles.			

2010-2011	I-12 O'Neal Lane Overpass, East Baton Rouge Parish, Louisiana. Drilled shaft design, PDA/CSL, post
	grout.
2010-2011	I-10 KCS Bridge, East Baton Rouge Parish, Louisiana. Drilled shaft design, PDA/PIT/CSL tests.
2011	Baton Rouge SWWTP, East Baton Rouge Parish, Louisiana. PDA and PIT, 14-inch DeWaal piles.
2010	IHNC Seabrook Gate, Orleans Parish, Louisiana. PDA and Static Tests, 30-in steel pipe piles.

Firm employed b	y: Fugro USA Land, Inc.					
Name John M	I. "Jack" Koban, Jr., PhD, PE, PG		Years of relevant experience with this employer	7		
Title Project Manager/Business Development			Years of relevant experience with other employer(s)	14		
Degree(s) / Year	s / Specialization	PhD	/ 2017 / Earth Sciences			
		MS /	MS / 2008 / Earth Sciences			
		BS/	2003 / Geological Engineering			
	on number / state / expiration date		0 / LA / March 31, 2021; 1045 / LA / May 10, 2020			
Year registered	2010; 2016 Discipline	Envi	ronmental; Geoscientist			
Contract role(s) /	brief description of responsibilities		A Order Manager. Dr. Koban will be responsible for the pro-			
			agement and engineering analysis as described in the adverti equent task orders issued.	sement and		
Experience dates	Experience and qualifications rele		o the proposed contract; <i>i.e.</i> , "designed drainage", "design	ned girders".		
(mm/yy-mm/yy)			dates should cover the time specified in the applicable MPR	-		
2015 – current			y Manager with over 5 years of experience in environmental			
	and corrective action, over 4 years	of exp	perience in geotechnical engineering, and 6 years in environment	mental		
	research. In addition to directing as	nd ove	rseeing laboratory operations for numerous DOTD projects	over the		
	1		erved to develop and strengthen relationships within the stat	•		
			he federal government and private level. As a board member			
		•	s in the Engineering Community and served as a co-author for	or the 2017		
	Louisiana Infrastructure Report Ca					
05/15 - 03/17			ainer Contract, Louisiana. Dr. Koban served as laboratory	_		
08/20 – Ongoing			ing over 20 task orders for bridge structures across Louisian			
		-	be of work included soil borings (on land and in water), labor	•		
		_	recommendations. As lab manager, Dr. Koban was responsi			
	assigning laboratory tests, running advanced testing procedures, and training and technical oversight of a team of					
	laboratory technicians. Additionally, he reviewed results and developed boring logs for reporting. testing					
02/10 7/10			oped boring logs from various task orders under this contract			
03/18 - 7/18			r and I-20 Improvements, Ouachita Parish, Louisiana. (F			
			aboratory manager for this project which included manageming, and engineering review of test results. Dr. Koban's back			
	_			-		
1	both Engineering and Geology provided expertise in both the qualitative assessment of soils for visual					

	classification and the more quantitative aspects in the laboratory allowing for detailed and accurate classifications needed for engineering analysis.
05/18 - 10/18	
03/18 - 10/18	LA 44 to US 61, Germany Road Roadway Improvements (H.013793). Dr. Koban served as laboratory
	manager for this project which included management of samples, test assignments and engineering review of
	testing results. Dr. Koban's understanding of the geology of Louisiana and experience with DOTD projects
	acquired through the previous retainer projects allowed for effective and reliable engineering services in the
	geotechnical laboratory.
08/18 - 12/18	Proposed LNG Pre-FEED Geotechnical Study, Lafourche Parish. Dr. Koban served as the project manager
	and project engineer for the pre-FEED geotechnical investigation and study associated with a proposed LNG
	facility in south Lafourche Parish, Louisiana. Duties included preliminary site visit, field and lab coordination,
	pile capacity and settlement analysis in support of the project. The project's next phases are currently in early
	stages of planning. Dr. Koban's educational and professional experience in engineering geology particularly in
	coastal/nearshore environments was an asset for the pre-FEED study of this proposed major installation and
	associated infrastructure. The project offered tremendous experience in executing projects in the types of
	difficult environments and challenging soil conditions that many DOTD projects face in southern Louisiana.
	unificult curronments and chancinging son conditions that many DOTD projects face in southern Louisiana.

Firm employed by Wiss, Janney, Elstner Associates, Inc.								
Name	Jonathar	an C. McGormley			Years of relevant experience with this employer	28		
Title	Principal				Years of relevant experience with other employer(s)	1		
Degree	(s) / Years	/ Specialization		BS,	1992, Civil Engineering, University of Cincinnati			
		-		MS,	1994, Civil Engineering, Purdue University			
Active 1	registration	number / state / exp	iration date	In ac	ddition to LA, Mr. McGormley is licensed in 7 other states of	and is a		
					sed Structural Engineer in IL.			
Year re	gistered	2019	Discipline		LA, License No. 43912 / expires 3/31/2024			
				NBI	S Certified Team Leader and Program Manager			
				NHI	130078 - Fracture Critical Inspection Techniques of Steel B	ridges		
				NHI	130055 - Safety Inspection of In-Service Bridges (& Refres	her 130053)		
				ATS	SA Traffic Control Technician Training/TC Supervisor Tra	ining		
Contrac	ct role(s) / b	orief description of re	esponsibilities	Mr. McGormley will fulfill MPR8, leading WJE's structural engineering				
				including instrumentation and testing, bridge inspections, and repair design.				
Experie	ence dates	Experience and qu	alifications rele	evant t	to the proposed contract; i.e., "designed drainage", "design	ned girders",		
(mm/yy	/–mm/yy)	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).						
		Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA: Project Manager responsible for						
		overseeing the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of						
		the lift bridge machinery and electrical systems, and development of repairs to restore the bridge's long-term functionality						
07/19-o	ngoing	and reliability. Oversaw the development of a unique monitoring and sensor installation plan, the installation of						
07/19-0	ngoing	instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Assisted with development of plans and specifications to address emergency repairs						
					er concrete lift span orthotropic deck overlay repairs, replacement			
		pinion bearings, elimination of lift span-to-approach span contact issues, and the improvement of the lift span seating by						
	counterweight movements and air buf					2 3		
					Mississippi River, Emergency Repairs, Mehlville, MO: Project			
05/19-0	8/19				quent rehabilitation repair design. Following the discovery of a six			
08/20-o	,			fracture critical inspection, performed an in-depth inspection of similar details,				
22.20	OD	obtained material samples for laboratory testing, coordinated emergency repairs, oversaw repair installation, and prepared						
02/21		investigation report. Completed bridge rehabilitation plans for the twin, tied-arch structures with construction ongoing.						
03/21-o	ngoing				ultation, St. Charles Parish, LA: Project Manager responsible for			
the project specifications and providing quality control assistance for the repair of an orthotropic deck overlay system						system		

	comprising and epoxy underlayment with a SFRC overlay on the cable-stayed spans. Installed a long-term monitoring
	system to evaluate the performance of the overlay repairs.
02/19–ongoing	US 90 over Bayou Ramos, St. Mary Parish, LA: Project Manager leading the investigation of delayed end cracking of precast, prestressed concrete (PPC) girders. The project includes the evaluation of previously collected monitoring data, development of a detailed finite element model to examine crack initiation and repair options, inspection of existing
	retrofits, laboratory testing of CFRP repairs, and development of a trial retrofit program.
09/21–ongoing	I-10/310 Bonnet Carré Fire Damage Repair, St. Charles Parish, LA: Project Manager overseeing the emergency
	inspection and load rating of the PPC girders, substructures, and bridge deck damaged by fire. Developed repair scope of
	work and estimated probable construction costs. Preparation of repair drawings and specifications ongoing.
12/21-ongoing	Jefferson St. Bascule Bridge Rehabilitation, Joliet, IL: Project Manager overseeing the rehabilitation of structural,
	mechanical, and electrical components of this rolling Scherzer lift bridge. Inspection and design work ongoing.
	Lake Shore Drive Bridge over the Chicago River, Girder Fracture Investigation, Chicago, IL: Project Manager
02/19–07/19	leading the investigation, stabilization, and repair installation after the bridge experienced two girder fractures related to
	corrosion.
	Sunshine Bridge over the Mississippi River, St. James Parish, LA: Project Manager responsible for the development
10/18-01/19	and implementation of a monitoring plan to provide information regarding redistribution of loads during the installation of repairs to the truss bottom compression chord damaged by impact. Responsible for the design of the jacking system,
10/18-01/19	review of member repair design, site observations, preparation of shop and jacking procedure drawings, field technical
	assistance, and chord jacking operations oversight.
	IH-345 Inspection, Analysis, and Retrofit Design, Dallas, TX: Project Manager for a fracture critical inspection of the
	1.6-mile-long steel two-girder structure connecting I-35, I-45, and US 75 with local city streets, visual examination of
03/15-06/17	substructure elements, and a visual and exploratory study of the PT deck. Oversaw instrumentation and field load testing
03/13 00/17	for finite element method model calibration and trial retrofit installations. Developed fatigue retrofit contract documents
	and provided on-site construction observation and technical support throughout construction.
03/14–12/14	S. Halsted Street over the Little Calumet River, Chicago, IL: Project advisor performing QA/QC for load ratings and
	gusset plate rehabilitation design to address live load rating concerns for this steel truss bridge.
09/13-09/13	Grand Avenue Bascule Bridge, Chicago, IL: Project Engineer for gusset plate condition assessment, load ratings, and
	preliminary retrofit development for members of this double leaf bascule bridge with inadequate live load capacity.
04/10-04/11	Hylebos Bridge, Tacoma, WA: Project Engineer conducting the visual inspection of the double-leaf bascule bridge in
	preparation for its rehabilitation.
02/10-08/10	Scherzer Rolling Lift Bridges, Joliet, IL: Project Manager for fracture critical inspections, gusset plate load rating, and
	repair recommendations of three lift bridges over the Illinois River.
03/08-06/09	I-5 Columbia River Bridge, Portland, OR: Project Engineer for span balance and counterweight adjustments of lift span
	bridge. Documented number and location of concrete blocks, cored counterweights to determine voids, oversaw
	instrumentation of operating rope turnbuckles and pinion shafts, inspected bearings and guide rollers.

Firm en	Firm employed by Wiss, Janney, Elstner Associates, Inc.						
Name	John R.	ohn R. Williams			Years of relevant experience with this employer	3	
Title	Title Supervisor				Years of relevant experience with other employer(s)	23	
Degree((s) / Years	/ Specialization		BS/E	ngineering Science / The Pennsylvania State University / 1	996	
		number / state / exp	iration date		dition to LA, Mr. Williams is licensed in 13 other states an		
		•		Canad	dian Provinces.		
Year re	gistered	2020	Discipline	PE L	A , License No.: PE.0044300 / expires 09/30/2022		
Contrac	ct role(s) / b	prief description of re	sponsibilities	Mr. W	Villiams will serve as Lead Mechanical Engineer responsible	e for task	
	. ,	1	1		s involving movable bridges.		
Experie	ence dates	Experience and qua	alifications rele	evant to	the proposed contract; i.e., "designed drainage", "design	ned girders",	
(mm/yy	/–mm/yy)	"designed intersecti	on", etc. Expe	rience d	lates should cover the time specified in the applicable MPR	₹(s).	
	• •	Danziger Lift Span	Bridge, US 90, o	over the	Industrial Canal, New Orleans, LA: Senior Mechanical Engin	neer for the	
					ting to reported operational issues, an in-depth inspection of the		
		machinery systems, and development of repairs to restore the bridge's long-term functionality and reliability. Assisted wit					
		the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring					
07/19-o	ngoing	equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended					
		period. Lead the development of plans and specifications to address emergency failed pinion bearing repairs. Performed					
		strain gage testing to measure span balance, implemented weight changes and air buffer repairs to improve seating of the					
		span, and determined through testing that the span drive differentials on both towers were not functioning properly,					
		requiring work with the manufacturer to properly adjust the associated clutches.					
		3rd Street Bascule Bridge over Islais Creek, San Francisco, CA: Project Manager and Lead Mechanical Engineer for the design of a replacement bridge that included new span operating machinery, new span support machinery for the new					
08/15-o	ongoing	leaf to be supported by the existing substructure and development of complex construction staging to address constraints					
		for the number and duration of outages for MUNI light rail services. The project started with a detailed scoping inspection					
		including a rating assessment of the structure, mechanical, and electrical systems that identified critical deficiencies leading to the decision to replace the bascule span superstructure in its entirety.					
					igineering Services, New Orleans, LA: Project Manager and Se	enior	
					ering services on an expedited basis to assist with the replacement		
					eight truss to the balance link. Services included balance testing,		
07/20-1	/20				of a sequence of work for supporting the structure, unloading and		
					the bridge to service within a marine navigation closure that was		
					gineering services were provided on an expedited basis due to the		
		• •			ne start of the marine navigation closure.		

	St. Peters Canal Swing Bridge Replacement, Cape Breton, NS, Canada: Project Manager and Engineer of Record overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center bearing swing
10/14-07/19	bridge. Responsibilities included design and backchecking of design calculations, plans preparation and detailing, and
10/14-07/17	preparation of contract specifications and construction cost estimates during design. Responsibilities during construction
	included coordination of a team of mechanical and electrical engineers and inspectors to review and approve construction
	submittals and provide complete shop and field inspection of all mechanical/electrical aspects of the rehabilitation project.
	Columbus Road Lift Bridge, Cleveland, OH: Senior Mechanical Engineer for the rehabilitation project with the
	objective to maintain the historic character of the structure while significantly reducing maintenance requirements and
08/08-08/18	improving overall system efficiency. A scoping inspection of the mechanical machinery determined suitability for
	continued long-term service and compliance with current AASHTO code requirements. The new mechanical design
	provides for complete replacement of all span support machinery, span drive machinery, and span locks.
	Burlington Canal Lift Bridge, Hamilton, ON, Canada: Movable Bridge Construction Specialist and Heavy Machinery
	Specialist for the contractor as part of a major electrical and minor mechanical rehabilitation of this critical vertical lift
07/14-02/18	bridge. The electrical scope of work included complete replacement of the electrical power and control systems for the
07/14-02/10	bridge including an aerial cable installation and skew control of the lift span. The mechanical scope of work included
	replacement of the high-speed end of the span drive machinery (brakes, speed reducer, shaft, and couplings). The scope of
	work required the contractor's engineer to sign and seal all submittals including shop drawings.
	Sir Ambrose Shea Lift Bridge Replacement, Placentia, NL, Canada: Project Manager and Mechanical Engineer of
	Record responsible for the design of span drive machinery, span lock machinery and span support machinery for a new
	tower drive lift bridge. Duties included preparation and review of all relevant calculations (sized motor, gear tooth strength
03/10–11/17	calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed machinery base plates,
03/10-11/17	sized span lock bars, sized span lock and lockbar actuator, performed fatigue analysis of trunnion shaft, and sized trunnion
	bearings), and preparation of design drawings, specifications, and cost estimates as part of design. During construction,
	responsibilities included review of contractor's shop drawings and procedures for conformance to contract requirements,
	disposition of non-conformance reports, and responding to requests for information or changes.
02/04–11/13	Mystic Bridge Rehabilitation, Connecticut DOT, Groton, CT: Project Manager and Senior Mechanical Engineer for the
	rehabilitation of the historic single leaf, mechanically operated Brown bascule bridge. The mechanical design included
	upgrades to the capacity of the span drive machinery and design of a custom vehicular safety barrier gate to rise out of the
02/04-11/13	roadway to protect errant vehicles from entering the waterway with the bridge raised yet remain visually unobtrusive with
	the bridge seated and open to vehicular traffic. Responsibilities included design and backchecking of design calculations,
	plans preparation and detailing, and preparation of contract specifications and construction cost estimates.

Firm er	nployed by	Wiss, Janney, Elstner Associates,	Inc.				
Name	Gareth T	. Rees	Years of relevant experience with this employer	3			
Title	Principal		Years of relevant experience with other employer(s)	51			
Degree	(s) / Years	/ Specialization	College Associateship Electrical Engineering (Bsc electrical equ	uivalent) /			
_		_	1968 / Polytechnic of Wales (now University of South Wales).				
Active	registration	number / state / expiration date	In addition to LA, Mr. Rees is a licensed P.E. in 17 other state.	s, the UK,			
			and 6 Canadian Provinces.				
	gistered	Discipline	PE LA, License No.: PE.0040754 / expires 09/30/2022				
Contrac	ct role(s) / ł	prief description of responsibilities	Mr. Rees will serve as Lead Electrical Engineer responsible for involving movable bridges.	task orders			
Experie	ence dates	Experience and qualifications rele	vant to the proposed contract; i.e., "designed drainage", "desig	ned girders",			
(mm/yy	y–mm/yy)	"designed intersection", etc. Expen	rience dates should cover the time specified in the applicable MP	R(s).			
			, LA: Lead Electrical Engineer for the inspection of relevant portions of				
			nal issues, an in-depth inspection of the lift bridge machinery and electronal				
07/19–o	ongoing	and development of repairs to restore the long-term functionality and reliability of the bridge. Prepared a new lift span					
		skew control system design after the existing Selsyn components were removed from the bridge, developed electrical					
		controls for the clutches with the span drive differentials, and provided recommendations for rehabilitation of the bridge.					
08/15-o	ngoing	3rd Street Bascule Bridge over Islais Creek, San Francisco, CA: Senior Electrical Engineer for the design of a					
06/13-0	ongoing	replacement bridge that included the design of new electrical power and control systems to be integrated with the MUNI light rail traction power and signal system.					
			t on Vertical Lift Bridges, LA: Principal Investigator to review altern	natives for			
			on for tower drive vertical lift bridges based on effective management				
		minimizing advanced electronic equipment. The study included a literature review, interviews with current owners and					
			l interviews with industry control specialists experienced in skew contr				
03/20-1	2/20		stem of skew control that combines the use of direct skew measuremen				
			trip indication, and indirect measurement of skew using encoders for c				
			ded. To minimize maintenance, mean-time-to-repair, and to limit dependent				
			at control integration be achieved using SMART relays (that contain se	lf-diagnostics)			
		that may easily be replaced in the even		. C 1' .			
			Bascule Bridge Rehabilitation, Lorain, OH: Movable Bridge Project				
03/18-0	12/20		and support systems for this historic double leaf deck truss bascule brid				
U3/18-U	12/2U	complete replacement of the drive machinery and electrical power and controls control systems. Services included review coordination and integration of the mechanical, electrical, and structural systems, review of all shop drawings for fit-up					
			of critical components; field oversight during construction for critical as				
		and constructionity, shop inspection (2 orthodicomponents, field oversight during construction for critical as	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

	verification of final alignment of machinery; shop and field acceptance testing of the electrical system installation,
	commissioning of the installed operating systems, strain gage operational testing and power recordings to confirm
	satisfactory performance of the newly installed systems, and development of the Operations and Maintenance Manual.
	Fort Madison Toll Bridge, Fort Madison, IA: Engineer of Record and Project Manager for the rehabilitation of this
	double decker swing span bridge. The first phase was the design of a new aerial and submarine power cable installation,
04/12 10/10	the new installation to be configured as redundant power sources. The design of the submarine cable installation included
04/13–10/19	surveying of the existing submarine cable, routing of the new cable, and designing and specifying the cable. The work also
	included excavation requirements and developing an approved trenching system. The design and contract documents were
	developed based on staged construction to satisfy marine, railroad, and highway operations as well as Coast Guard and
	emergency services with respect to bridge operating outages. Construction services were also performed.
	Sir Ambrose Shea Lift Bridge, Placentia, NL, Canada: Engineer of Record for the design of a replacement tower drive
	vertical lift bridge with two duty motors and brakes in each tower and two sets of span locks. The bridge operator's control
	house is located at roadway level and remote from the bridge with CCTV surveillance and fiber optic communications to
03/10–11/17	the towers. The PCL-based control system was designed with Hot standby redundant PLC's, a human machine interface
	(HMI), and control console and a redundant fiber optic communications transmission backbone. The electric services are
	distributed to state-of-the-art intelligent MCC's in each of the bridge towers and have internal communications capabilities
	and interface directly with the bridge control system PLC for bridge operation, drive monitoring, and data acquisition.
	East Roundbunch Road over Cow Bayou, Orange County, TX: Lead Electrical Engineer responsible for designing new
	drives, controls, and field devices for the span drive machinery and the end wedge machinery as part of a rehabilitation of
06/14-06/16	this historic structure to provide long-term reliable service. Span drive machinery was comprised of components with a
	proven history of utilization on movable bridges and was powered by an electric motor. Design and integration of new
	traffic control features, bridge and maintenance lighting, and a CCTV system were also included.
	Haystack Bascule Bridge over Petaluma River, Petaluma, CA: Engineer of Record and Lead Electrical Engineer for
	the relocation, rehabilitation, and reassembly of a single leaf rolling lift bascule railroad bridge. The designed bridge
	electrical systems consist of modern PLC logic control and flux vector variable frequency drives. The electric service and
01/14–12/14	standby generator for bridge back-up power are located on one side of the navigable channel with the bridge operating
	system on the other. An under-channel installation was developed to connect the electric service equipment and associated
	communications to the bridge operating system. The system design included communications, fire life safety system
	design as well as the integration of the bridge operating system with the railroad train control.
10/10-02/12	Port Severn Swing Bridge 60 Rehabilitation, Port Severn, ON, Canada: Lead Electrical Engineer for a bridge
10/10-02/12	inspection, condition survey, engineering analysis and preparation of plans, specifications, and cost estimate.

Firm employed by	Wiss, Janney, Elst	ner Associates	, Inc.				
Name Steven L			•	Years of relevant experience with this employer	11		
Title Supervise	itle Supervisor-Other			Years of relevant experience with other employer(s)			
Degree(s) / Years	/ Specialization		BS,	2009, Civil Engineering, Purdue University	•		
5	1		MS,	2010, Civil Engineering, Purdue University			
Active registration	n number / state / exp	iration date					
Year registered	2015	Discipline	PE I	L, License No.: 062-068057 / expires 11/30/2023			
Year registered	2016	Discipline	SE I	L, License No.: 081-007838 / expires 11/30/2022			
			NBI	S Certified Team Leader/Program Manager			
			NHI	130078 - Fracture Critical Inspection Techniques of Steel Br	ridges		
			NHI	130055 - Safety Inspection of In-Service Bridges (& Refresh	ner 130053)		
			Soci	ety of Professional Rope Technicians/ Level I			
			Transportation Worker Identification Credential (TWIC)				
			India	Indiana Bridge Load Rating Engineer, IN000551-2022-ATL-F-LRE			
Contract role(s) / l	brief description of re	esponsibilities	Mr. Lauer will serve as Lead Instrumentation Engineer. He also will				
			parti	cipate in load ratings, NDE, and bridge inspections.			
Experience dates	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",						
(mm/yy-mm/yy)	Ŭ			dates should cover the time specified in the applicable MPR	` '		
	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA: Project Engineer assisting in the						
07/10	development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring						
07/19–ongoing	equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over time. The						
	monitoring was designed to assess bridge span lift operations and included laser distance devices, linear potentiometers, strain gages, temperature measurements, ultrasonic distance measurements, and Wi-Fi cameras.						
02/22–ongoing				ultation, St. Charles Parish, LA: Project Engineer assisting with	the		
02/22 ongoing				em to evaluate the performance of the repairs the orthotropic deck			
	<u>*</u>	_	~ .	with a SFRC overlay on the cable-stayed spans.			
				ppi River, Minneapolis, MN: Project Engineer responsible for fin	ite element		
	modeling of the bridge structure, load rating, and the design and installation of the instrumentation system capable of						
01/21-ongoing	recording strain, displacement, rotation, and temperature. Various scan rates record structure behavior during daily and						
		long-term thermal cycles and live load events. The double-deck bridge has a pedestrian level, and the vehicular level was					
				ng trusses between the original girders and now has bearing seat d			
08/21-ongoing		• •		he Mississippi River, Lansing, IA: Project Manager responsible f			
	wireless pier monitoring instrumentation s			tem. Data is remotely accessed and presented on a website for the	owner. This		

	work followed our routine, in-depth, element-level, fracture critical, inspections that included ultrasonic testing (UT) of
	pins for the three truss spans and approach spans. An inspection report and repair recommendations were developed.
06/21-04/22	SR 62 over Pigeon Creek, Evansville, IN: Project Engineer responsible for bearing pad inspection and corresponding
00/21-04/22	instrumentation system designed to aid in determining the cause of walking elastomeric bearings.
	Sherman Minton Bridge - I-64 over the Ohio River, New Albany, IN: Project Engineer for instrumentation and
10/19–11/21	monitoring, crack arrest hole retrofit installation, and Team Leader of fracture critical and routine inspections of truss
10/19-11/21	members using rope-access and structure climbing techniques of the double-deck bridge having tied arch trusses as the
	main spans and an approach span combination of deck/through trusses.
	I-40 Hernando Desoto Bridge, Emergency Repairs, Memphis, TN: Project Engineer assisting the contractor in the tie
	girder fracture repairs for the I-40 Bridge, which was closed due to a partial section fracture. Installed emergency
05/21-10/21	instrumentation utilizing rope-access techniques, mobilizing personnel and equipment to have a working web-accessible
	system with over 25 sensors functional in a week. Participated in the development of measurement and reporting
	procedures to be used during tensioning and de-tensioning of the temporary jacking system used for the tie girder repairs.
	I-294 under St. Charles Road, Berkley, IL: Project Manager for the evaluation of steel multi-beam structure directly
06/21	exposed to vehicular fire to determine its fitness to return to service. Performed limited inspection, field hardness testing,
00/21	and steel core extraction for benchtop hardness testing at WJE's Northbrook, IL laboratory and unilateral static tensile
	tests.
	Sunshine Bridge over the Mississippi River, St. James Parish, LA: Project Engineer for the development and
	implementation of a monitoring plan to provide information regarding redistribution of loads during the installation of
10/18-01/19	repairs to the truss bottom compression chord damaged by impact. Assisted with the design of the jacking system, review
	of member repair design, site observations, preparation of shop and jacking procedure drawings, field technical assistance,
	and chord jacking operations oversight.
02/17-12/17	Joe Page Vertical Lift Span over the Illinois River, Hardin, IL: Project Manager responsible for bearing reaction
02/17 12/17	determination via load cells and dynamic strain gage balance testing.
	Michigan Avenue Bascule Bridge over the Chicago River, Chicago, IL: Project Manager for construction project
08/16-08/17	balance calculations and dynamic strain gage balance testing of this double deck, quadruple-leaf, bascule truss bridge with
	single-unit, side-by-side leaf pairs.
	Transport of Long Prestressed Concrete Girders, LA: Project Engineer for the dynamic monitoring of two long
05/11–12/15	prestressed girders during transport from the precast yard to their final installation at the bridge site. Performed field
	instrumentation to monitor dynamic strain and inertial motion, which provided acceleration and rotational orientation of
1 22, 11 12, 10	the girder with wireless communication. Evaluated data using dynamic 3D model with sensor mapping and interactive
	geolocation to correlate significant strain events with position and transport activity. Assisted in preparation of report to
	LADOTD and LTRC. Monitoring included wireless data collection from video, strain gages, thermocouples and
	gyroscopes.

Firm employed b	y Wiss, Janney, Elst	tner Associates	, Inc.			
Name Curtis J. Schroeder				Years of relevant experience with this employer	3	
Title Enginee	r-Other			Years of relevant experience with other employer(s)	8	
Degree(s) / Years	Degree(s) / Years / Specialization			BS, 2009, Civil Engineering, Michigan Technological University		
	_		MS,	2011, Civil Engineering, Purdue University		
			PhD	, 2018, Civil Engineering, Purdue University		
Active registration	n number / state / exp	piration date	Dr. S	Schroeder is also a licensed PE in two other states		
Year registered	2021	Discipline	SE I	L, License No.: 081.008638 / expires 11/2022		
Year registered	2015	Discipline	PE V	VI, License No.: 44013 / expires 7/2022		
				130078 - Fracture Critical Inspection Techniques of Steel Br		
				130055 - Safety Inspection of In-Service Bridges (& Refresh	ier 130053)	
			AW	S Certified Welding Inspector		
				Ultrasonic Technician - Level II		
				NDT Magnetic Particle Testing - Level II		
Contract role(s) /	brief description of r	esponsibilities	Dr. Schroeder will lead nondestructive testing of steel elements focusing on			
			phased array UT (PAUT) and MT. He will also participate in sampling,			
	1		bridge inspection, load rating, and development of welding procedures.			
Experience dates	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders",					
(mm/yy-mm/yy)	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).					
11/21–ongoing			0 /	Fort Wayne, IN: Project Engineer assisting with UT and PAU		
06/19-07/20	repairs for this cabl		repair	design calculations, load rating, and visual, MT, and UT inspect	ion of	
01/21–ongoing				roject Engineer assisting with visual inspection and load rating of	of primary	
01/21 ongoing				russ bridge and steel piers.		
11/21-02/22				avre de Grace, MD: Project Engineer assisting with UT and PA	AUT	
	inspection of 45 pinned connections of deck truss railroad bridge with known defect indications.					
05/21 01/22	SR 66 over I-64, Carefree, IN: Team leader for special inspection of bridge containing 18 pinned hinge connections					
05/21-01/22				nic testing (UT), and magnetic particle testing (MT). Assisted with development		
09/21–12/21	and implementation of repairs for cracked pin plate fillet welds. Water Street Bridge, Pittston, PA: Project Engineer for the the UT of ten transfer pins in steel through-truss bridge.					
		·		et Engineer responsible for UT and PAUT of 21 pinned connection		
08/21-10/21	steel through truss and suspended spans. Assisted with fracture critical inspection of steel through-truss spans					
	Jacon anough auss t	and buspended sp	Jan 1 .	designed with indicate efficient inspection of section ough thus sp	mii.	

07/21-08/21	Hernando de Soto Bridge, Memphis, TN: Project Engineer for the fracture investigation of a tie girder fabricated using T-1 steel in one of two tied arches. Performed UT, PAUT, and wet fluorescent MT of removed fracture specimen and steel cores. Performed QA verification of PAUT inspection procedure.
03/21–08/21 05/19–09/19	Jefferson Barracks Bridge, St. Louis, MO: Project Engineer for the fracture critical inspection of the twin tied-arch bridges over the Mississippi River. Performed PAUT and MT inspection of tie girder welds during emergency repair work to estimate extent and size of cracking. Performed inspection of welded repairs as a certified welding inspector (CWI), assisted with follow-up MT inspection of tie girder welds, and reviewed weld repair design for rehabilitation project.
05/21–08/21 09/19–11/19	Burlington-Bristol Bridge Sheave Inspections, Burlington, NJ: Project Engineer performing PAUT of surface indications on thrust face of vertical lift bridge cast sheave and wet fluorescent MT inspection of cast sheaves. Assisted with development of repair recommendations.
04/21-06/21	Hawthorne Bridge, Portland, OR: Project Engineer assisting with UT and wet fluorescent MT inspection of vertical lift bridge trunnions, including through-bore examinations.
01/21-05/21	US 136 over Wabash River, Covington, IN: Team Leader for special inspection of a post-tensioned, concrete trapezoidal box girder bridge that included visual inspection of epoxy-injected cracks in the web wall, ground penetrating radar (GPR) inspection to locate vertical shear reinforcement, and concrete core removal for testing of concrete strength.
01/21-04/21	Franklin Street Bridge, Michigan City, IN: Project Engineer assisting with the development of tread casting crack repairs and performing visual and MT inspection of field-welded repairs.
09/20-01/21	North Dakota DOT Pin and Link Inspections, ND: Project Manager for PAUT of 344 bridge pins on 17 bridges with both pin and hanger and pinned hinge connections.
10/20-11/20	Eagle's Nest Bridge, Hebron, ND: Project Manager for repair of cracked pin plates at bridge pinned hinges. Developed weld repair solution and performed MT and CWI inspection of welded repairs.
08/20-11/20	Charles Berry Bridge, Lorain, OH: Project Engineer assisting with UT inspection of bascule bridge trunnions, including through-bore examinations.
04/20-06/20	US 6 over SR 331, Bremen, IN: Team Leader for special inspection of bridge containing 14 pinned hinge connections, including visual inspection, UT, and MT. Assisted with development of repair recommendations for cracked pin plate fillet welds.
05/19–08/19 01/17–03/17	Delaware River Bridge, Bristol, PA: Project Engineer to develop PAUT inspection plan to locate weld-filled holes in truss members within a gusset plate connection. Assisted with PAUT technician performance testing. (2017) Project Engineer to develop UT inspection plan to locate weld-filled holes in truss members. Assisted with investigation of bridge member fracture.

Firm employed by Wiss, Janney, Elstner Associates, Inc.						
Name Mohamed K. ElBatanouny				Years of relevant experience with this employer	7	
Title Supervis	Supervisor-Other			Years of relevant experience with other employer(s)	5	
Degree(s) / Years	/ Specialization		BS,	2008, Civil Engineering, Helwan University		
_	_		MS,	MS, 2010, Civil Engineering, University of South Carolina		
			PhD	, 2012, Civil Engineering, University of South Carolina		
Active registration	n number / state / exp	iration date				
Year registered	2018	Discipline	SE I	L, License No.: 081.008166/expires 11/2022		
Year registered	2018	Discipline	PE I	A, License No. P24910/expires 12/2023		
Year registered	2020	Discipline	PE U	JT, License No. 11805073-2202/expires 3/2023		
Year registered	2021	Discipline	PE V	VI, License No. 48217 - 6/expires 7/2022		
Contract role(s) /	brief description of re	esponsibilities	Dr. I	ElBatanouny will lead the nondestructive testing and evaluati	on of	
			concrete elements He will also serve as an instrumentation engineer for			
			structural monitoring and load testing task orders.			
Experience dates	Experience and qua	alifications rele	evant t	to the proposed contract; i.e., "designed drainage", "design	ed girders",	
(mm/yy-mm/yy)	Ŭ			dates should cover the time specified in the applicable MPR	` '	
04/19-ongoing		•		rmer Concrete Overlays, Iowa DOT, various locations: Project	_	
				umentation of two bridge decks using visual inspection, GPR, half		
	_	•		al testing. The project included construction observation, assistance		
			•	ll-off testing) during installation of the first polyester polymer over	rlays on	
01/21–ongoing				every 2 years, and service life analysis are also being completed. South Dakota DOT, various location: Project Manager respons	ible for	
01/21—oligoling				5 bridge approach slabs using visual inspection, GPR, and elevation		
				Il settlement at the approach slabs.	on surveys.	
07/19–ongoing				e Industrial Canal, New Orleans, LA: Project Engineer assisting	g in the	
				sor installation plan, the installation of instrumentation and monit		
	equipment, and the cr	quipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over time. The				
				an lift operations and included laser distance devices, linear potent		
strain gages, temperature measurements, ultrasonic distance measurements, and WiFi cameras. Assisted with the						
00/01				ation of polyester polymer concrete lift span orthotropic deck over		
03/21–ongoing				ultation, St. Charles Parish, LA: Project Engineer responsible fo		
quality control assistance for the repair of an orthotropic deck overlay system comprising and epoxy un				orthotropic deck overlay system comprising and epoxy underlayr	nent with a	

	SFRC overlay on the cable-stayed spans. Developed and installed a long-term monitoring system to evaluate the performance of the overlay repairs.						
06/21 - 08/21	Nondestructive Evaluation of Industrial Equipment Foundation, Indiana, multiple facilities: Project Manager						
	responsible for inspection and condition documentation of industrial equipment foundations to detect voiding condition						
	using NDT methods including ultrasonic pulse velocity (UPV) and ultrasonic shear-wave tomography.						
09/16 –12/21	James K. Polk Building, Nashville, TN : Project Manager responsible for the long-term acoustic emission and vibration monitoring of post-tension wire breaks.						
05/18-10/20	Ship Channel Bridge, Houston, TX: Project Engineer to monitor girder movement in existing bridge.						
12/18-02/19	Chicago Public School District, Chicago, IL: Project Engineer participating in the structural condition assessment;						
	instrumentation and load testing of reinforced concrete roofs (several schools, date for one load test is included).						
10/18-01/19	Sunshine Bridge, St. James Parish, LA: Project Engineer for the development and implementation of a monitoring plan						
	to provide information regarding redistribution of loads during the installation of repairs to the truss bottom compression						
	chord damaged by impact. Assisted with field technical assistance and chord jacking operations oversight.						
05/18-09/18	High-Rise Building, Chicago, IL: Project Engineer completing the condition assessment of post-tensioned slabs and						
	concrete façade using multiple NDT techniques including GPR, rebound hammer, ultrasonic pulse velocity (UPV) and						
	ultrasonic shear-wave tomography to detect voiding conditions within the concrete slabs.						
03/15-06/17	IH-345 Inspection, Analysis, and Retrofit Design, Dallas, TX: Project Engineer for instrumentation and field load						
	testing for finite element method model calibration and trial retrofit installations of this 1.6-mile-long steel structure						
	connecting I-35, I-45, and US 75 with local city streets. Instrumented bridge units using wireless instrumentation, reusable						
	strain transducers, and string pots to install gages at over 200 locations. Oversaw rolling load tests to collect in-plane live						
	load and fatigue response stinger and girder cross section.						
04/16–10/16	TTC Steeles West Subway Station, Ontario, Canada: Project Engineer performing condition assessment of subway concrete walls using GPR, impulse response, and ultrasonic shear-wave tomography.						
05/15-12/15	CTA Yellow Line Embankment Investigation, Skokie, IL: Project Engineer responsible for installing emergency tilt						
	monitoring of temporary slope protection system after sudden collapse of an earthen embankment below an active mass						
	transit rail line due to adjacent construction work.						
05/11–12/15	Transport of Long Prestressed Concrete Girders, LA: Project Engineer for the dynamic monitoring of two long						
	prestressed girders during transport from the precast yard to their final installation at the bridge site. Worked on data						
	evaluation of collected dynamic strain and inertial motion data. Evaluated data using dynamic 3D model with sensor						
	mapping and interactive geolocation to correlate significant strain events with position and transport activity. Assisted in preparing report for the LADOTD and LTRC.						

Firm employed by Wiss, Janney, Elstner Associates, Inc.							
Name	Leonard	l L. Phelps			Years of relevant experience with this employer	37	
Title	Title Supervisor-Other				Years of relevant experience with other employer(s)	8	
Degree	(s) / Years	/ Specialization		BS, 1	979, Biology, University of Illinois		
		•		BA,	1979, Chemistry, University of Illinois		
				MS,	1991, Chemistry, DePaul University		
Active 1	registratio	n number / state / exp	iration date		·		
Year re	gistered	2021	Discipline	SSPC	C (AMPP) Certified Protective Coatings Specialist, 2021-014	I-012 /	
			-	expir	es 12/31/2025		
Contrac	ct role(s) /	brief description of re	sponsibilities	Mr. I	Phelps will serve as the Primary Coating Inspector.		
Experie	ence dates	Experience and qua	alifications rele		the proposed contract; i.e., "designed drainage", "designed	ed girders",	
(mm/yy	/–mm/yy)	"designed intersecti	on", etc. Expe	rience	dates should cover the time specified in the applicable MPR	(s).	
04/21-1	1/21	Pacific Highway Lar	nd Port of Entr	y Enve	lope Renovation, Blaine, WA: Lead Chemist, as part of the build	ling	
					garding the coating specification, minimum adhesion rating for te	sts on	
					sults, and coating submittals.		
					Mississippi River, Emergency Repairs, Mehlville, MO: The twi		
					tructure with a steel box arch and a 12-foot-deep steel I-shaped tie		
08/21		1			or both structures with construction ongoing. As Lead Chemist, as		
					guidance regarding metalizing of the hanger cables that have expense		
					on included trial testing to determine the proper blast media to preprieting galvonized coefing	pare the	
04/15		surface without substantially removing the existing galvanized coating. I-20/I-55 Bridge over the Pearl River, Fatigue Retrofits, Jackson, MS: The twin I-20/I-55 structures consist of precast					
04/13		prestressed concrete girder approach spans and a 3-span continuous welded plate girder river crossing with a maximum					
					o develop and install fatigue retrofits to address distortion-induced		
					ders at the abutments. As Lead Chemist, provided guidance for the		
				_	ng lead and painting of the bridge repairs. Also advised on bridge		
					ng primer prior to the application of a permanent coating system.		
10/11–0	3/14				d for Client Confidentiality: Blistering and delamination of the		
polyurethane-based liner from interior concrete surfaces of upper and lower precast concrete cells of a coolin							
	prompted a field investigation of the liner system, which included observations of the liner, sealant, and panel-to-par						
		The state of the s			l concrete relative humidity, determination of liner adhesion and c	_	
					r and concrete substrate were also obtained and reserved for labora	•	
					I samples included visual, microscopic, and petrographic examina		
		analyses by SEM/ED	s; and analyses	oy mira	ared spectroscopy, and x-ray diffraction. Studies for acid-soluble c	шопае	

	contents and conformational coating thickness were also conducted. The primary contributing cause to these delaminations was exposure of water to the backside of the liner at open, breached, weathered, and split sealant joints. Water at the backside interface can move past the backer rod to the sealant and create breaches in the sealant joints by freezing/ice jacking. Irregularities associated with installation techniques and methods may also contribute to the formation of midfield blisters. Drawings and specifications were prepared to remediate the failed coating.
06/11-04/14	Reeds Island Bridge, Hilo, HI: Served as Primary Coating Inspector and Lead Chemist to prepare specifications for preparation and shop painting of new galvanized steel, and for the painting and repair of site elements in a damp, wet environment due to average rainfall of about 130 inches of rain per year and waterway below. Led efforts to perform site inspections of shop and field surface preparation and coating application. The field coating application was in a wet environment due to frequent Hilo rainfall, and waterway below.
10/12–11/12	Iowa Department of Transportation, Various Locations: Served as a Primary Coating Advisor and Reviewer for the inspection and evaluation of weathering steel patinas for thirty-one bridges as part of research project to evaluate the performance of weathering steel bridge structures to identify types of structures that are most vulnerable to chloride contamination, identify locations on individual structures that are most susceptible, identify possible testing methods or inspection techniques, evaluate the effectiveness of water washing, and develop prioritization for washing based on the type and condition of the structure.
09/05–10/07	State of Hawaii, Aloha Stadium, Honolulu, HI: Primary Coating Inspector and Lead Chemist responsible for assessing the condition of the substrate and extant coatings applied to structural weathering steel of the Aloha Stadium. Subsequently developed specifications for the preparation and coating (zinc-rich primer; epoxy stripe, filler, and intermediate; and fluoropolymer finish brush, roller, and airless spray) of the salt contaminated structural weathering steel. Performed numerous site inspections of multiple phases of work required to prepare and coat the steel in a salt environment.
03/1999–08/1999	Chicago Skyway, Chicago, IL: Project Manager and Primary Coating Inspector performing a condition assessment of existing coatings and underlying steel substrate of the Calumet Bridge, viaducts, overpasses, and ramps. Adhesion testing, coating thickness measurement, review of substrate condition, and assessment of original substrate preparation were done.
12/1996	Bridge of the Americas, Panama City, Panama: Primary Coating Inspector overseeing the coating condition survey for the bridge condition evaluation of the riveted tied-arch bridge that runs east to west and spans a mile and a half over the Panama Canal. For the condition survey of the coating covering the bridge steel (an oil-based primer pigmented with red lead and top coated with aluminum pigmented alkyd-based coating), witnessed tests conducted by contractor on the existing coating system and he conducted random on-site evaluations of the existing coating on accessible areas of the bridge, including surface chloride analyses, peel-adhesion tests, and coating thickness tests. Performed a review of the coating specifications and proposed a method of surface preparation and a recoating system.

Firm Employed by		Nichol			
Name	Chace Hulo	Chace Hulon, PE, ADCI		Years of relevant experience with this employer	8
Title Program Manager and NBIS Team Leader		m	Years of relevant experience with other employer(s)	9	
Degree(s) / Years	Specialization	l	BS	S / 2005 / Civil Engineering / Norwich University, Ver	mont
Active registration	number / state	/ expiration date	Pro	ofessional Engineer: 39701 / LA / Exp. 09/30/23	
Year registered	2009	Discipline	Ci	vil Engineering	
Contract role(s) / b	orief description	n of responsibilities		BIS Team Leader/ ADCI-certified Dive Supervisor access Technician	/ SPRAT Rope
Experience dates (mm/yy-mm/yy)	-	•		to the proposed contract; <i>i.e.</i> , "designed drainage", "dee dates should cover the time specified in the applicable	
11/19 – Present	LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana. MN Project Manager and Team Leader for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of both cable-stayed bridges in Louisiana (Audubon and Luling) with rope access techniques to inspect a total of 208 cables between the two bridges, their Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of the GNO Cantilever Truss Bridges in New Orleans 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 access 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. Hands-on management and implementation of the QC review plan is vital to the continued success of this project.				
1/20 – Present	LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana. MN Project Manager and Team Leader for one of the current five-year retainer contracts as a major subconsultant to Gresham Smith, contracted to perform in-depth bridge inspections on complex, movable, long-span, and precast segmental box girder bridges throughout Louisiana. Performed and lead the structural, mechanical, and electrical inspections of six (6) movable bridges utilizing detailed, nondestructive and laboratory testing methods with hand sketches. Hands-on management and implementation of the QC review plan is vital to the continued success of this project.				

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 have performed 1,375 underwater NBIS bridge inspections statewide.
	Bridge types included movable bridges, long-span bridges with caissons and deep foundations, timber bridges
	with multiple bents in the water, culverts and multi-span bridges up to 14 miles in length. Assisted DOTD with
	several emergency response requests within hours utilizing local team members. 8346.00, 9840.00, 211288.00
02/21-Present	LADOTD Underwater Bridge Inspections (2020-2025) - Task 1, Statewide, Lousiana. Project Principal for
	routine underwater inspections of 75 bridges including major bridges over large waterways with deep
	foundations and dynamic channel conditions. All diving inspections were augmented with acoustic imaging
	technology for bridges over large waterways with high-risk environmental conditions. Hydrographic surveys
	were performed using the HydroLite-TM and MatLab for accurate and repeatable channel soundings at these
	bridge sites

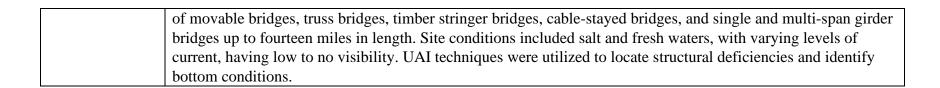
Firm Employed by	Moffatt &	Moffatt & Nichol				
Name	Herodotos A. Pentas, PhD, PE		Years of relevant experience with this employer	1<		
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	32		
Degree(s) / Years	/ Specialization	1	PhD / 1990 / Civil Engineering, Louisiana State Universi	ty		
			MS / 1986 / Civil Engineering, Unversity of Alabama at	Birmingham		
			BS / 1984 / Civil Engineering, Unversity of Alabama at I	Birmingham		
Active registration			Professional Engineer: #24660 / LA also FL, MS, & TX			
8 8 8 8 8 8 8 8	1992	Discipline	Civil and Structural			
. ,		n of responsibilities	Bridge design services			
Experience dates			ant to the proposed contract; i.e., "designed drainage", "de			
(mm/yy-mm/yy)			ence dates should cover the time specified in the applicable			
2017		•	es Inspection & Load Analysis, St. Tammany Parish, Loui	· ·		
	_		is, and rating of timber bridge and concrete bridges by app	olying AASHTO		
		and LADOTD Standards.				
2016	•	•	St. Tammany Parish, Louisiana. Project manager for bridg	<u> </u>		
122	•		mprovements of timber plank bridge with damaged pile su			
1997			737-99-0158, Assessment of Bridge Damage by Watercra			
		<u>-</u>	ections of fender systems/substructures of 134 bridges to	_		
	-		damage assessment, repair plan preparation, cost estimate	es, repair procedure,		
1007			attention due to its effectiveness & execution.	C 1 1 .:		
1996			tructural Load Rating, 118 Bridge, Louisiana. Project man	_		
	_	s throughout the state.	A majority of the bridges were prestressed concrete and s	teer plate girder		
1996	design.	No. 700 00 0264 D	ara Da Data. Lauisiana Draigat managar for conversion of	Fall axisting DADC		
1770	LADOTD S.P. No. 700-99-0264, Bars Re-Rate, Louisiana. Project manager for conversion of all existing BARS load rating WSM and LFM files to VIRTIS database and running of converted BARS files to verify VIRTIS					
	rating results for 493 structures. Analyzed with finite element method, three structures for three super-load					
	permit vehicles and recommended distribution factor, influence line, permit land review procedure, and					
	-		<u> </u>			
	examples for typical complex members (truss span, steel & prestressed girder, steel and reinforced concrete cap beam.					
	ccaiii.					

1993	LADOTD S.P. No. 700-30-0002, Complex Structures Load Rating, 37 Bridges, Louisiana. As Project Manager, led analysis and rating of 37 complex steel and concrete bridges using both working stress and load factor methods. Structure types included simple and mult-span steel curved plate girders, simple and multi-span normal
	and skewed box girders, and curve box girders.
1993	LADOTD S.P. No. 359-02-0012, Clear Lake Bridge Design, Louisiana. Project engineer for preliminary and
	final design for LA 1226 bridge over Clear Lake, a five-span continuous unit utilizing AASHTO Type IV
	precast prestressed concrete girders supported by 30-in-diam concrete pile bents.
1992	LADOTD S.P. No. 033-03-0033, Red River Bridge, Louisiana. Project engineer for preliminary and final design
	of superstructure, piers, and piles of LA Highway 107 over Red River at Moncla. Superstructure consisted of
	four-span steel composite girders. Substructure consisted of reinforeced concrete piers. Performed the ship
	impact analysis for piers and related analysis of bridge.

Firm Employed by					
Name	Mike Russell, EIT	Years of relevant experience with this employer	1<		
Title	NBIS Team Leader and Rope Access Supervisor	Years of relevant experience with other employer(s)	11		
Degree(s) / Years	Specialization	BS / 2015 / Civil Engineering, Central Connecticut Univ	ersity		
Active registration	number / state / expiration date	Engineer-in-Training: #35255 / TN			
Year registered	N/A Discipline	Civil and Structural			
Contract role(s) / b	orief description of responsibilities	NBIS Team Leader / SPRAT Rope Access Supervisor Remote Drone Pilot	-Level III / FAA		
Experience dates (mm/yy–mm/yy)		vant to the proposed contract; <i>i.e.</i> , "designed drainage", "de rience dates should cover the time specified in the applicable			
08/21 – Present	and Rope Access Supervisor for one to HNTB, contracted to perform in-Couisiana. Performed the inspection on fracture critical members and UA Responsible for inspecting the steel with a rope access safety management through truss utilizing fall protection supervisors and team leaders on site rescue pre-plans. Documented field leader for standardized report process the draft report for consistency and a	•	najor subconsultant dges throughout attilizing rope access and connections. Ork boat platform in span steel arched er with other fe operations and he project team olan and reviewed		
04/19 – Present	LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contract to perform over 1700 sign truss inspections throughout Louisiana, including the Orleans District along this corridor. Lead the development of the new Sign Truss Inspection Program by implementing policies and standard operating procedures. Managed and utilized the fall protection safety program with rope access techniques and rescue plans. Lead the development of an application for an internal tablet-based inventory management system. Non-destructive testing was performed on all anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies were observed at steel and aluminum welds. Managed the QC report review process and the QA field and office review process. Managed and planned the				

	Temporary Traffic Control plans and setups for lane closures throughout the state along with all of the District traffic engineers. Analyzed altered load paths.
1/22 – Present	LADOT In-Depth Inspections of Complex Bridges - Audubon Bridge, LA Rope Access supervisor and NBIS
	Inspector Planning for the in-depth NBIS routine and fracture critical inspection of the Audubon Bridge.

Firm Employed by		Nichol			
Name	Steven Arn	nstrong, PE, ADCI	Years of relevant experience with this employer		8
Title	NBIS Team	Leader	Years of relevant experience w	2	
Degree(s) / Years	Specialization	ı	/ 2021 / Civil Engineering / Ur / 2015 / Civil and Environment eans		
Active registration	number / state	/ expiration date	fessional Engineer: 44405 / LA	/ Exp. 09/30/22	
Year registered	2020	Discipline	il .		
Contract role(s) / b	rief description	n of responsibilities	IS Team Leader / FAA Remo	te Drone Pilot / SPR	AT Rope Access
	-	-	hnician / ADCI-certified Dive	er	_
Experience dates (mm/yy–mm/yy) 11/19 – Present	"designed inte	ersection", etc. Experi	o the proposed contract; <i>i.e.</i> , "dodates should cover the time spe Bridge Inspection, Louisiana. 7	ecified in the applicabl	le MPR(s).
year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspection complex, signature, long-span bridges throughout Louisiana. Performed the inspections of the Audubon castayed bridge with rope access techniques to inspect a total of 136 cables, the HDPE protection, and anchor Performed the inspection of the I-10 Horace Wilkinson Bridge (New Bridge) completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed draft inputs and consol notes from multiple teams to present proper data consistently throughout the report.				e Audubon cable- on, and anchorages. zing rope access ts and consolidated	
1/20 – Present	LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana. Team Member for one of the current five-year retainer contracts as a major subconsultant to Gresham Smith, contracted to perform in-depth bridge inspections on complex, movable, long-span, and precast segmental box girder bridges throughout Louisiana. Performed the structural inspections of six (6) movable bridges along with the M&E team. Utilized nondestructive UT methods to accurately document section loss in fracture critical members. Performed draft inputs and consolidated notes from multiple teams to present proper data consistently throughout the report.				
09/14 – Present	five-year retain NBIS and AA	ner contract to perfor SHTO Manual for Br	Inspection, Statewide, Louisian vels I, II, and III underwater br Element Inspection. Responsib reports, and quality control rev	idge inspections in acc le for leading underwa	cordance with ater inspection



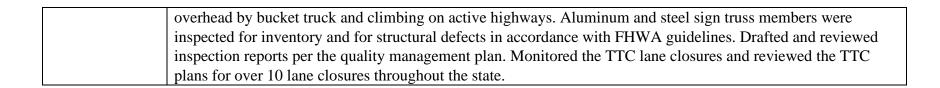
Firm Employed by Moffatt & Nichol	16. Staff Experienc							
Title NBIS Team Leader and Safety Officer Years of relevant experience with other employer(s) 10 Degree(s) / Years / Specialization Commercial Diving with Concentration in Subsea Inspection / 2005 / Divers Institute of Technology Active registration number / state / expiration date N/A Year registered N/A Discipline N/A Contract role(s) / brief description of responsibilities NBIS Team Leader / Safety Officer / Equipment Manager / SPRAT Rope Access Technician / ADCI-certified Diver Experience dates (mm/yy-mm/yy) Degree(a) / Present Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge, inspection statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, true is length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. 04/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed -40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Draffed and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC p	Firm Employed by	Moffatt & N	Nichol			T		
Degree(s) / Years / Specialization	Name	Jeffrey Gaz	Jeffrey Gazarek, ADCI		Years of relevant experience with this employer	6		
Active registration number / state / expiration date N/A Year registered N/A Discipline N/A Contract role(s) / brief description of responsibilities NBIS Team Leader / Safety Officer / Equipment Manager / SPRAT Rope Access Technician / ADCI-certified Diver Experience dates Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed m/y-mm/yy) O9/14 - Present LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana, NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. O4/16 - Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in acco	Title	NBIS Team	Leader and Safety Offic	cer	Years of relevant experience with other employer(s)	10		
Active registration number / state / expiration date N/A Year registered N/A Discipline N/A NIS Team Leader / Safety Officer / Equipment Manager / SPRAT Rope Access Technician / ADCI-certified Diver Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). 1. ADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. 1. ADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. 11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed	Degree(s) / Years / S	Specialization		Co	ommercial Diving with Concentration in Subsea Inspection	2005 / Divers		
Year registered N/A Discipline N/A Contract role(s) / brief description of responsibilities NBIS Team Leader / Safety Officer / Equipment Manager / SPRAT Rope Access Technician / ADCI-certified Diver				In	stitute of Technology			
Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed mittersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Description of the proposed contract; i.e., "designed drainage", "designed girders", "designed mittersection", etc. Experience dates should cover the time specified in the applicable MPR(s). LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. Od/16 - Present	Active registration r	number / state / e	expiration date	N/	'A			
Experience dates (mm/yy-mm/yy) O9/14 - Present 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). LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on an anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select	Year registered	N/A	Discipline	N/	'A			
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). LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. R	Contract role(s) / bri	ief description o	of responsibilities	N	BIS Team Leader / Safety Officer / Equipment Manager	/ SPRAT Rope		
(mm/yy-mm/yy) intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). 1		_	_	A	ccess Technician / ADCI-certified Diver			
D9/14 – Present LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana. NBIS Team Leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. T	Experience dates	Experience and	d qualifications relevant	t to t	he proposed contract; i.e., "designed drainage", "designed g	irders", "designed		
contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. 104/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year		intersection", e	etc. Experience dates sh	ould	cover the time specified in the applicable MPR(s).			
operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. O4/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year	09/14 - Present		-	-	•	•		
control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. 04/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. 11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year		contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive						
bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. O4/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. 04/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. 11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
deficiencies and identify bottom conditions. 04/16 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. 11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
11/14 – Present LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader and Rope Access Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
Supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year			<u> </u>					
Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on a anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year	04/16 – Present							
anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state. 11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year		*						
11/14 – Present MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi. NBIS Bridge Inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year	11/14 Dungant							
Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on select bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year	11/14 – Present							
bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, divin operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
operations, drafting reports, sketches, and repair recommendations. 11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
11/19 – Present LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana. Team Member for one of the current five-year								
	11/19 – Present							
	11,17 11050111							
signature, long-span bridges throughout Louisiana. Performed the inspection of the I-10 Horace Wilkinson Bridge (New								
Bridge) completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts.								

	Firm Employed by Moffatt & Nichol					
Name	Christopher (Chip) Eschenbach		Years of relevant experience with this employer	4		
Title	NBIS Team	Member	Years of relevant experience with other employer(s)	6		
Degree(s) / Years /	Specialization		Associates / 2015 / Welding Technology			
Active registration	number / state	/ expiration date	N/A			
Year registered	N/A	Discipline	N/A			
Contract role(s) / b	rief description	n of responsibilities	NBIS Underwater Inspector / SPRAT Rope Access To certified Diver	echnician / ADCI-		
Experience dates (mm/yy–mm/yy)	*	•	It to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable M	•		
retainer contracts as a major subconsul signature, long-span bridges throughou (Audubon and Luling) with rope access Dampers, and anchorages. Performed techniques and rolling lane closures to Cantilever Truss Bridges in New Orleans Green Bridge, a steel tied arch in New			h Bridge Inspection, Louisiana. NBIS Team Member for one of tant to HNTB, contracted to perform in-depth bridge inspection to Louisiana. Performed the inspections of both cable-stayed bries techniques to inspect a total of 208 cables between the two bries he inspection of the I-10 Horace Wilkinson Bridge completely greatly minimize traffic impacts. Performed a supplemental insigns utilizing rope access techniques. Performed a fracture critical Orleans utilizing rope access and UAS access techniques. Performed to Lake Charles utilizing rope access on FCM's and UAS	as on complex, dges in Louisiana idges, their Gensui utilizing rope access spection of the GNO al inspection of the ormed the inspection access techniques on		
1/20 – Present	of the current fi bridge inspection Performed and nondestructive QC/QA plan is	ive-year retainer contractions on complex, movablead the structural, mecand laboratory testing notical to the continued structured s		erform in-depth tout Louisiana. ilizing detailed, thentation of the		
08/18 – Present	LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana - UWI District 62, Baton Rouge, LA Bridge Inspector for bridges in district 62. Responsibilities included the underwater portion of the bridge inspection. Tasks for inspection of said bridges included inspection of all underwater members, gathering sediment depths around bridges, listing any additional defects not listed in previous reports, taking photos and updating current information on each bridge Responsibilities for the job compiled of equipment preparations, driving the truck and company boat, diving on bridges and assisting with the inspection and data collection for the bridges above the water. The diving operations were conducted					

	from the Baton Rouge pontoon boat using surface-supplied diving or scuba diving techniques to ensure safe practices as
	well as clear and precise notations.
09/18 – Present	LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Bridge Inspector for the current five-
	year retainer contract to perform approximately 50% of 1,700 routine and interim overhead sign structure inspections.

Firm Employed by	Moffatt & Nichol			
Name Joshua Martinez, PE, ADCI		Years of relevant experience with this employer 7		
Title	NBIS Team Leader and Diver	Years of relevant experience with other employer(s) 5		
Degree(s) / Years	Specialization	MCE / 2013 / Structural Engineering, North Carolina State University BCE / 2009 / Structural Engineering, United States Air Force Academy		
Active registration	number / state / expiration date	Professional Engineer: 42085 / LA / 3/31/22		
Year registered	2013 Discipline	Civil		
Contract role(s) / b	orief description of responsibilities	NBIS Team Leader / SPRAT Rope Access Technician / ADCI-certified		
		Diver		
Experience dates (mm/yy-mm/yy)	* *	to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed uld cover the time specified in the applicable MPR(s).		
06/17 – Present	the current five-year retainer contract with NBIS and AASHTO Manual for with varying levels of current, having	ter Bridge Inspection Retainer Contract, Statewide. NBIS Team Leader for et to perform Levels I, II, and III underwater bridge inspections in accordance or Bridge Element Inspection. Site conditions included salt and fresh waters, ag low to no visibility. UAI techniques were utilized to locate structural aditions. Responsible for leading underwater inspection teams to complete uality control reviews.		
09/13 – 06/17	LADOTD 2013 NBIS Underwater Bridge Inspection Retainer Contract, Statewide. NBIS Inspector for the previous five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Responsible for underwater inspection field work, inspection reports, and quality control reviews. UAI techniques were utilized to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.			
03/17 – Current	Leader responsible for topside inspection line in the control of t	dges for the North Carolina Department of Transportation, NBIS Team ction of bridges under two, consecutive, multi-year, on-call contracts. Iges as well as concrete, steel, and timber. Mr. Martinez was responsible for and determining critical maintenance items per state requirements. He also also to the element base level. Mr. Martinez familiarized himself with several tet truck, snooper, and under-bridge platform. He served as engineer reviewer roper rating per National Highway Institute (NHI) guidance.		

Firm Employed by		Nichol					
Name Charle		Charles Balzarini, PE		Years of relevant experience with this employer	9		
Title	NBIS Team	Leader and Diver		Years of relevant experience with other employer(s)	7		
Degree(s) / Years	Specialization	1	BS	S / 2008 / Civil Engineering, University of Alaska, And	chorage		
Active registration	number / state	e / expiration date	Pr	ofessional Engineer: 13854 / AK / Exp. 12/31/2023			
Year registered	2013	Discipline	Ci	vil			
Contract role(s) / b	orief descriptio	n of responsibilities		BIS Team Leader / SPRAT Rope Access Technician iver	n / ADCI-certified		
Experience dates (mm/yy-mm/yy)	"designed into	ersection", etc. Experi	enc	to the proposed contract; <i>i.e.</i> , "designed drainage", "dee dates should cover the time specified in the applicable	le MPR(s).		
06/17 – Present				Bridge Inspection Retainer Contract, Statewide. NBIS			
		•		o perform Levels I, II, and III underwater bridge inspec			
			O Manual for Bridge Element Inspection. Site conditions included salt and				
	fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate						
		ructural deficiencies and identify bottom conditions. Responsible for leading underwater inspection teams to					
11/10 7	complete field work, inspection re			<u> </u>			
				h Bridge Inspection, Louisiana. NBIS Team Leader for			
		er contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections					
	on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of the Luling cable-						
	stayed bridge in New Orleans with rope access techniques to inspect a total of 72 cables between the two						
	bridges, their Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge						
	completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of the GNO Cantilever Truss Bridges in New Orleans utilizing rope access						
= =							
techniques. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in utilizing rope access and UAS access techniques.				ew Officalis			
04/16 – Present	LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader for both five-						
0-7/10 - 11cscnt	year retainer contracts to perform approximately 40% 1700 sign truss inspections throughout Louisiana. Util						
the fall protection and rope access techniques with rescue plan development. Performed non-destruction							
		-		ctures, base plates with excessive standoff distances, ar	_		
	deficiencies or impacts were observed at steel and aluminum welds. Hands-on inspection work was perf						
<u> </u>	deficiencies of impacts were observed at steer and adminimum werds. Hands-on inspection work was performed						



Firm Employed by Moffatt & Nichol						
Name	Matthew Balzarini, PE		Years of relevant experience with this employer	5		
Title	NBIS Team Leader and Diver		Years of relevant experience with other employer(s)	4		
Degree(s) / Years / S	pecialization	BS	S / 2011 / Civil Engineering, University of New Orleans			
	umber / state / expiration date	Pr	ofessional Engineer: 118893 / AK / Exp. 12/31/23			
Year registered	Discipline Discipline	Ci	vil			
Contract role(s) / brid	ef description of responsibilities	NI	BIS Team Leader / SPRAT Rope Access Technician / A	DCI-certified Diver		
Experience dates (mm/yy–mm/yy)			he proposed contract; <i>i.e.</i> , "designed drainage", "designed gover the time specified in the applicable MPR(s).	girders", "designed		
06/19 Present	five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of both cable-stayed bridges i Louisiana (Audubon and Luling) with rope access techniques to inspect a total of 208 cables between the two bridges. Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge completely utilizing access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of GNO Cantilever Truss Bridges in New Orleans 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 access 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.					
06/18 – Present	LADOTD IDIQ for NBIS Underwater Bridge Inspection Retainer Contract, Statewide. NBIS Team Leader and Team Member for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. Responsible for leading underwater inspection teams to complete field work, inspection reports, and quality control reviews.					
07/18 – Present	LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana. Team Leader for both five-year retainer contracts to perform approximately 10% 1700 sign truss inspections throughout Louisiana. Utilized the fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on all anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state.					

Firm Employed by		Nichol			
Name	Laura Miller, EIT		Years of relevant experience with this employer	4	
Title	Assistant In	spector and Diver	Years of relevant experience with other employer(s)	16	
Degree(s) / Years / S	Specialization		MBA / 2017 / Business Administration, Tulane University MS / 2017 / Global Management, Tulane University MS / 2012 / Civil & Environmental Engineering, San Jose State University BS / 2002 / Human/Regional Geography and Spanish, United States Military Academy		
Active registration	number / state	/ expiration date	Engineer-in-Training: EI.0034949 / Lousiana		
O	2021	Discipline	Civil		
Contract role(s) / b	rief description	of responsibilities	Assistant Inspector / SPRAT Rope Access Technician Diver	/ ADCI-certified	
Experience dates (mm/yy–mm/yy) $09/19 - 03/20$	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). LADOTD 2017 NBIS Underwater Bridge Inspection Retainer Contract, Statewide. NBIS Inspector for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Completed underwater inspection field work, inspection reports, and quality control reviews. Underwater acoustic imaging techniques were utilized to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.				
09/19 - 03/20	LADOTD Statewide Ancillary Sign Inventory and Inspection, LA. Assistant Inspector for the current five-year retainer contract to perform approximately 30% of the 1700 sign truss inspections (routine and interim) throughout LA. Utilized a tablet-based inventory management system with a custom designed application. Utilized fall protection techniques for inspections of fatigue prone details on steel and aluminum box trusses members. Non-destructive testing was performed on steel and aluminum welds, high stress moment connections and anchor rods. Performed QC report reviews in accordance with FHWA guidelines.				
06/18 - 08/18	Battery Park City Authority, Phase 6 Pile Remediation, New York, NY. Inspector-Diver for underwater inspection of Battery Park. The project included underwater inspection of piles, caps, and beams along with the seawall inspection. The first phase of work was to ensure that completed repairs were intact and upheld their integrity. The second phase of the assignment was to look all uninspected piles, caps and beams and report back any details that will need to be addressed and repaired.				

Firm Employed by				
Name	Yehoshua "Josh" Gilad, PE	Years of relevant experience with this employer	10	
Title	Senior Mechanical Engineer	Years of relevant experience with other employer(s)	25	
Degree(s) / Years /		MS / 1980 / Mechanical Engineering, Rice University BS / 1971 / Mechanical Engineering, Israel Institute of Technology Graduate Courses / 1981 / Electrical Engineering, University of Houston		
		Professional Engineer: M30046 / CA / Exp. 09/30/22		
	1 1	Mechanical Engineer		
` ′		Mechanical Engineer for Bridge Inspection Services		
Experience dates (mm/yy–mm/yy)	<u> </u>	nt to the proposed contract; <i>i.e.</i> , "designed drainage", "de	,	
11/19 - Present	"designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana. Mechanical engineer for current five-year retainer contract (2019-2024) to perform in-depth bridge inspections of mechanical, electro-mechanical, & electro-hydraulic systems for sing span bridges & prepare mechanical sections of inspection reports. Conducted in accordance with AASHTO Movable Bridge Manual, mechanical inspection examined electric motor driven gearing operations associated with main span rotation and wedge operation or live load shoes to support four corners of movable span, thruster brake, gear box, speed reducers, solenoid brakes, traffic gates, and barrier gates. Inspection also examined general operation, open gearing, speed reducers, shafts, shaft bearings/shaft couplings, hydraulic power units, hydraulic piping system, hydraulic cylinders/motors/ rotary actuators, hydraulic directional control valves [DCV], machinery base, access ladder/platforms, balance wheel, tracks, and barriers. For all systems and components, condition assessment is performed, and the systems and components are classified and ranked in accordance with LADOTD criteria, with recommendation for repair or replacement, where applicable. To date, he has completed in-depth mechanical inspection of six swing span bridges: Bayou Teche (LA 3182) Bayside Bridge (Recall 006306), New Iberia, LA – span-hydraulic, wedge-hydraulic Indian Village Bridge (LA 3066S) (Recall 054472) over Plaquemine Bayou – span-hydraulic, wedge-hydraulic – span-hydraulic, wedge-hydraulic, wedge-hydraulic			

	· Highway 56 Bridge (LA 0056) (Recall 003450) over Boudreaux Canal, Terrebonne Parish, Chauvin – span – hydraulic, wedge -mechanical
	· Convent Street Bridge (LA 0324) (Recall 009130) over Bayou Teche, St. Mary Parish, Charenton – span-mechanical, wedge-mechanical
	Bayou Teche (LA 0671) (Recall 005860), Jeanerette, LA – span-mechanical, wedge-mechanical
	Movable Bridge Inspection along the Amtrak Northeast Corridor. As part of New Haven to Boston rail line
02/93 – 06/94	electrification project, inspected movable bridges including all bascule & swing bridges along the way.
02/93 - 00/94	Inspection collected data for use in conceptual design of retractable catenary overhead wire system designed to
	clear bridge when it was about to open & move back on the bridge after it closed.

Firm Employed by		Nichol			
Name	J. Alan Gro	egg, Jr. PE	Years of relevant experience with this employer	1.5	
Title	Electrical E	ngineer	Years of relevant experience with other employer(s)	5	
Degree(s) / Years	Specialization	l	BS / 2015 / Electrical Engineering, Kennesaw State Univ	versity	
Active registration	number / state	/ expiration date	BA / 2008 / Political Science, Augusta University Professional Engineer: GA / 45320 / Exp. 12/31/22		
	2019	Discipline Discipline	Electrical Engineer		
		n of responsibilities	Electrical Engineer for Bridge Inspection Services		
Experience dates			ant to the proposed contract; <i>i.e.</i> , "designed drainage", "de	esioned oirders"	
(mm/yy-mm/yy)			ence dates should cover the time specified in the applicable		
11/19 - Present	LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana. As a subconsultant under a five-year retainer contract for in-depth inspection of complex and movable bridges, Mr. Gregg has served as Moffatt & Nichol's electrical engineer to provide in depth electrical systems inspection and reports for swing span movable bridges. Conducted in accordance with AASHTO Movable Bridge Inspection, Evaluation and Maintenance Manual and the LADOTD Bridge Design and Evaluation Manual, electrical inspection examined power supply and distribution equipment, control systems, electrical motors/motor controls, electrically operated brakes, control cabinets, conductors, conduit systems, lighting and receptacle outlets, grounding systems, and lightning protection systems. In addition to thorough visual inspection, Mr. Gregg utilized the following advanced measurement and inspection methods: • cable and motor winding insulation resistance testing • grounding system impedance testing • measurement of motor no-load and full load voltages • measurement of motor starting and full-load currents. Electrical section of inspection reports assessed condition and provided repair recommendations for all inspected electrical components. To date, Mr. Gregg has completed in-depth electrical inspection of four Louisiana swing span bridges.				
10/17 – 12/18	I-20/US-21 Bridge Replacement & Intersection Improvements, Columbia County, Georgia. Electrical engineer for project involving demolition & replacement of a bridge over Interstate-20 and conversion of ramp intersections above interstate into roundabouts. Provided lighting & associated electrical distribution design for				

	interstate access ramps and interchange roundabouts. Design challenges included special coordination to account						
	for existing high-voltage overhead transmission lines passing over the roadway, as well as transition lighting for						
	motorists departing the interchange and moving toward surrounding unlighted areas.						
	Berckmans Road Phase II, Augusta, Georgia. Bridge replacement & cross section realignment/modifications of a						
	0.8-mile-long section of roadway which included conversion of a 4-way intersection into a roundabout. Provided						
02/19 - 05/20	lighting design for roundabout and two legs of Berckmans road that connect to it. Design challenges included						
	constrained right-of-way, dense roadside overhead utilities, and the need for significant light trespass mitigation						
	near residences adjacent to portions of the roadway.						

16. Stail Experien						
Firm employed by		ers, Ltd.	T			
Name Richard C. Meyer, P.E.			Years of relevant experience with this employer 40			
	-in-Charge		Years of relevant experience with other employer(s) 0			
Degree(s) / Years			B.S. Civil Engineering 1980, Tulane University			
Active registration	n number / state / ex	xpiration date	24012 / LA / 03-31-2022			
Year registered	1988	Discipline	Civil Engineering			
Contract role(s) /	brief description of	responsibilities	Project Principal / Oversee Project			
Experience dates	Experience and q	qualifications rele	evant to the proposed contract; i.e., "designed drainage", "design	ned girders",		
(mm/yy-mm/yy)	"designed intersec	ction", etc. Expen	rience dates should cover the time specified in the applicable MPI	R(s).		
Richard C. Meyer	is the Principal and	d is involved with	all aspects of administering engineering projects including client	contact,		
	U 1 1		stration, and contract closeout. He coordinates the Engineering sta			
1			ing structural, sanitary and storm sewerage, roads and bridges, air	-		
,			geable of the DOTD's "Roadway Design Manual", "Hydraulics M	,		
U	,	1 0	". As Project Engineer for the Federal Aid System Projects, he has			
			representatives for the construction of asphaltic concrete and Port			
•	~ .		y (30) years. The work included interpreting contract documents,			
1 7 1	•		Federal, State and Parish Representatives. He is a member of the			
_		-	gineers, the American Concrete Institute, National Society of Professional Soc	essional		
Engineers, Louisi	•		n, and the American Council of Engineering Companies.			
03/08-09/11			nue Extension (Loyola Avenue – LaSalle Street), Orleans Paris	3		
04/18-Present	Principal for the Howard Avenue Extension (Loyola Avenue – LaSalle Street). The project consists of a 1,600'					
	concrete roadway, base course, curbs, sidewalk, ADA compliant ramps, drain lines, utility adjustments,					
	1 0	gnals, and street I	ighting. The work also includes right-of-way acquisition. Constru	ction Cost:		
0.6/1.2.02/1.0	\$3.2M (EST)					
06/13-02/19	06/13-02/19 S.P. No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Project Principal for					
00/14/06/17	road improvements and pedestrian tunnel. Construction Cost: \$3.6M					
02/14-06/17	02/14-06/17 S.P. No. H.007855: LA 431 @ LA 934 Intersection Improvements, Ascension Parish: Project Principal for					
00/07/02/12			nprovements. Construction Cost: \$1.5M			
09/07-02/12			Submerged Roads Program, Orleans, and St. Bernard Parish			
	Principal for the LA DOTD Submerged Roads (Paths to Progress) Program. The project consisted of providing					
	Design under a re	tainer contract w	hich included five (5) separate bid packages. The work included b	ase repair,		

	asphalt and concrete patching, asphalt overlay, concrete road, concrete curbs, sidewalks, and drainage repairs.							
	The construction cost of all Task Orders was \$61 Million.							
04/19-Present	S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Project Principal for preparing							
	Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be							
	an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median,							
	curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design.							
	Construction Cost: \$3.5M (EST)							
01/18-Present	State Project No. H.013850: Duplessis Road Safety Widening, Ascension Parish: Project Principal for the							
	design, plan preparation and construction administration for the Duplessis Road Safety Widening Project.							
	Duplessis Road is categorized as an Urban Collector Roadway that provides a connection between major LA							
	DOTD roads : Airline Highway (US 61) and Old Jefferson Highway (LA Highway 73). As part of the Move							
	Ascension roadway improvement program, Meyer is tasked with designing the full roadway reconstruction of							
	the 1.65-mile portion of the road to widen the road from 18' wide to 26' wide (two (2) 11' lanes and two (2) 2'							
	wide paved shoulders). The roadway and shoulder safety widening will aide in vehicle recovery and provide a							
	safer roadway for traveling motorists. Also included in this project is the drainage design and layout of the new							
	subsurface and roadside ditch sections. Construction Cost: \$5.2M (EST)							

Firm en	nployed by	Meyer Engineers	s, Ltd.			
Name	ame David H. Dupre, P.E.			Years of relevant experience with this employer	32	
Title				Years of relevant experience with other employer(s)	3	
Degree	(s) / Years	/ Specialization		B.S. Civil Engineering 1984, Louisiana State University		
Active 1	registratio	n number / state / exp	iration date	23422/LA/03-31-2022		
	gistered	1989	Discipline	Civil Engineering		
Contrac	et role(s)/	brief description of re	sponsibilities	Responsible Charge / Project Manager / Vice President		
Experie	ence dates	Experience and qua	alifications rele	evant to the proposed contract; i.e., "designed drainage", "designed drainage",	gned girders",	
	/–mm/yy)			rience dates should cover the time specified in the applicable MF		
		1		Engineer, registered in the State of Louisiana. He will in Respon		
				ets of administering engineering projects which include client con		
				stration, preparation of reports, plans and specifications. He part		
		0 0	_	ls, bridges, drainage, sanitary sewer, water and structural. He is t		
				neering Companies Louisiana (ACECL). He was also the form		
				receiving the Outstanding Civil Engineer award from the New		
				ASCE, APWA, CMAA and LES. He has designed projects in ac		
				es Manual", "Bridge Manual", "Complete Streets Manual", and the		
				certified in Local Public Agency Qualification Core Training, C		
				ect Planning, Feasibility & Application Workshop, Project Designts for Pedestrian & Bicycle Safety Workshop. He is a LADOTD		
		Supervisor and Flag	0 0	is for redestrian & bicycle Safety Workshop. He is a LADO ID	certified	
03/08	3-09/11			nue Extension (Loyola Avenue – LaSalle Street), Orleans Par	rish: Project	
	-Present			lesigning the Howard Avenue Extension (Loyola Avenue – LaS	•	
			0 0	ncrete roadway with curbs, subsurface drainage, turn lane, 7' v	,	
	sidewalks, striping, traffic signals and street lighting. Construction Cost: \$3.2M (EST)					
06/13	06/13-02/19 S.P. No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Project Manager who					
00/10	designed the LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of					
	LA 59 at the existing dangerous "S" curve and construction of a pedestrian tunnel under LA 59. Work included a					
				n existing section of LA 59, a box culvert "tunnel" with approach		
	drainage improvements. Construction Cost: \$3.6M					
11/13	3-08/16			A 934 Intersection Improvements, Ascension Parish: Project M	Aanager who	
		provided engineerin	ig and project r	nanagement for the LA 431 @ 934 (Goldplace Road) intersection)n	

	improvements in Ascension Parish. This DOTD Urban System Project included adding left and right turn
	lanes. Road improvements included pavement widening, asphalt pavement and base course, asphalt mill and
	overlay, and drainage. Construction Cost: \$1.5M
11/18-04/19	Bainbridge Street Access to MSY (Stage 0 Study), City of Kenner: Program Manager for the Intermodal
	Access/Impact Study. The purpose of this study was to develop, define, and analyze a range of feasible
	improvements to Bainbridge Street, between the Louis Armstrong New Orleans International Airport
	(LANOIA) campus and Veterans Boulevard. The project defined and quantified LANOIA related traffic
	impacts on the roadway , as well as reasonable forecastable land use changes and corresponding trip generation
	patterns envisioned in the adjacent area controlled by the City of Kenner.
04/19-Present	S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Project Manager for preparing
	Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be
	an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median,
	curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design.
	Construction Cost: \$3.5M (EST)
09/95-03/05	S.P. No. 700-18-0080: Route US 190 Junction 433-US11, St. Tammany Parish: Project Manager and
	designed drainage and geometry. Improvements included a four-lane rural section , a five-lane urban section ,
	two (2) 180-foot long slab span bridges, subsurface drainage, and a pedestrian tunnel. Side streets included
	Northshore Boulevard and Camp Villere Road. Construction Cost: \$23M
09/07-02/12	S.P. No. 704-92-0039: LA DOTD Submerged Roads Program, Orleans, and St. Bernard Parishes: Project
	Manager for the first phase of the LA DOTD Submerged Roads (Paths to Progress) Program Phase "A". The
	project consisted of providing Design under a retainer contract which included five (5) separate bid packages.
	The work included base repair, asphalt and concrete patching, asphalt overlay, concrete road, concrete curbs,
	sidewalks, and drainage repairs. The construction cost of all Task Orders was \$61 Million.
01/21-Present	Jefferson Highway at Bluebonnet Boulevard, East Baton Rouge Parish: Project Manager for the Jefferson
	Highway at Bluebonnet Boulevard Intersection project. As part of the MOVEBR Program, the project
	includes extending the north and south bound left turn lanes and right turn lanes on Bluebonnet. Other
	work includes drain inlet structures, driveways, and light pole relocations. Construction Cost: \$1.3M (EST)

Firm en	nployed by	Meyer Enginee	rs, Ltd.				
Name	Name Jitendra C. Shah, P.E.				Years of relevant experience with this employer	36	
Title	Title Quality Control				Years of relevant experience with other employer(s)	11	
Degree	(s) / Years	/ Specialization		M.S	. Civil Engineering 1975, Wayne State		
		_		B.S.	Civil Engineering, 1973, The Detroit Institute of Technolog	gy	
		n number / state / ex	piration date		51 / LA / 03-31-2023		
Year re	gistered	1981	Discipline	Civi	l Engineering		
Contrac	ct role(s) /	brief description of a	responsibilities	Qual	lity Assurance/Quality Control		
(mm/yy	ence dates y-mm/yy)	"designed intersec	tion", etc. Expe	rience	to the proposed contract; i.e., "designed drainage", "designed dates should cover the time specified in the applicable MPI	R(s).	
					et and is involved with all aspects of administering engineeri	C 1 3	
				•	control, construction administration, and contract closeout,		
		•			ost facets of Civil Engineering design including structural, s	•	
			•	•	ges, and airport designs. He has completed the DOTD/RPC	-	
			•	•	He has completed the FHWA and DOTD sponsored course of		
	•				Member of the Institute of Transportation Engineers, and a	member of	
					Engineering Society.	Nanaaan fan	
11/14-0	J3/18				Iartin Luther King Boulevard, Orleans Parish: Project Moledano Street to Martin Luther King Boulevard (approxima		
					oadway included two 12-foot-wide traveling lanes and 8' pa	•	
		,			v		
		in each direction separated by a median. Additional features included curbs, new traffic signals, subsurface drainage, water line, sewer line, and street lighting replacement. Construction Cost: \$5.5M					
06/13-0)2/19				urve Realign and Tunnel at Trace, St. Tammany Parish:	Quality	
00,13	, = (± /	•			urve Realign and Tunnel at Trace project. Improvements in	_	
					ting dangerous "S" curve as the road crosses the trace, and of		
		_		59. Work included a new roadway section as well as widening an existing			
	■				rovements included drainage improvements, utility relocations, and raising		
			-		cunnel. Construction Cost: \$3.6M (EST)	C	
08/12-0)8/19	Treme-Lafitte Neighborhood Infrastructure Rehabilitation, Orleans Parish: Project Engineer for the					
			_		e Treme-Lafitte Neighborhood. The Treme-Lafitte neighbor		
		consists of about 200 blocks in the City of New Orleans, bound by Esplanade Avenue, St. Louis Street, N. Broad					
		Street, and N. Rampart Street. The infrastructure rehabilitation project consists of the repair or complete				plete	

	replacement of roadway pavement, curbs, sidewalks, and driveways damaged by Hurricane Katrina. The
	project also consists of the upgrading of the water line system including modifications to the existing system and
	upgrading or constructing handicapped ramps at intersections to bring the neighborhood up to current ADA
	standards. Construction Cost: \$5.8M (EST)
09/11-02/12	State Project No. 704-92-0039: LA DOTD Submerged Roads Program, Orleans, and St. Bernard
	Parishes : Project Manager for the second phase of the Paths to Progress LA DOTD Submerged Roads Program.
	The project consisted of providing Design and Construction Engineering and Inspection under a retainer contract
	which included ten (10) different Task Orders for five (5) separate bid packages. This project was for the
	permanent repair to Federal aid eligible roads as a result of damage due to Hurricane Katrina. The work
	included base repair, asphalt and concrete patching, mill, asphalt overlay, concrete road, concrete curbs, granite
	curbs, driveways, sidewalks, handicap ramps, drain line repairs and catch basin repairs. The construction
	estimate of all Task Orders under the second phase, Paths to Progress, was \$29M.
01/18-Present	Holmes Boulevard Rehabilitation (Browning Lane to Behrman Highway), Jefferson Parish. Project
	Engineer for the Holmes Boulevard Rehabilitation Project. The project consists of removing and replacing the
	existing two (2) lane undivided concrete roadway and adding a six (6') foot continuous shoulder/bike lane on
	either side of Browning Lane to Behrman Highway. The existing twenty-eight (28') foot wide concrete roadway
	will be removed; the base regraded and compacted, and a new nine (9") inch concrete roadway will be installed.
	The six (6') foot continuous shoulder on each side which will serve as a bike lane will be constructed using a 10"
	pervious concrete section four and a half (4.5) feet wide with a one and a half (1.5) foot wide barrier curb and
	gutter of standard concrete for a total width of six (6') feet. A three (3') foot mountable curb island is to be used
	to separate the bike lane from the automobile travel lanes. Construction Cost: \$5.8M (EST)

Name Mark A. Schutt, P.E. Years of relevant experience with this employer 21	Firm employed h	oy Meyer Engineers, Ltd.					
Title Civil Engineer Years of relevant experience with other employer(s) 1 Degree(s) / Years / Specialization M.S. Civil Engineering, 1999, Tulane University B.S. Civil Engineering, 1997, Tulane University 30528 / L.A / 03-31-2023 Year registered 2003 Discipline Civil Engineering 1997, Tulane University 30528 / L.A / 03-31-2023 Year registered 2003 Discipline Civil Engineering 1997, Tulane University 2003 Discipline Civil Engineering 2004 Civil Engineering 2005 Civil Engineering 2006 Civil Engineering 2007 Civil Engineering 2008 Civil Engineering 2008 Civil Engineer 2009 Civil		· · ·		Years of relevant experience with this employer	21		
Degree(s) / Years / Specialization	,						
Active registration number / state / expiration date Active registred 2003 Discipline 30528 / LA / 03-31-2023 Contract role(s) / brief description of responsibilities Lead Design Civil Engineer/ Lead Project Engineer Experience dates (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Mark A. Schutt will be the Lead Civil Engineer/Designer on this project. His experience includes client contact, cost estimates, design, construction administration, preparation of reports, plans and specifications. While with other firms, he conducted extensive research on pile-supported approach slabs. He has designed projects in accordance with DOTD's "Roadway Design Manual", "Hydraulies Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop, and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for Traffic Control Supervisor and Flagger. 04/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project Engineer who designed the r			M.S.		1		
Active registration number / state / expiration date 2003 Discipline Civil Engineering Contract role(s) / brief description of responsibilities Lead Design Civil Engineer / Lead Project Engineer		s / Specialization		.			
Contract role(s) / brief description of responsibilities Lead Design Civil Engineer / Lead Project Engineer	Active registration	on number / state / expiration date					
Experience dates (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Mark A. Schutt will be the <i>Lead Civil Engineer/Designer</i> on this project. His experience includes client contact, cost estimates, design, construction administration, preparation of reports, plans and specifications. While with other firms, he conducted extensive research on pile-supported approach slabs. He has designed projects in accordance with <i>DOTD's "Roadway Design Manual"</i> , "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . 94/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at			Civil	Engineering			
Experience dates (mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Mark A. Schutt will be the <i>Lead Civil Engineer/Designer</i> on this project. His experience includes client contact, cost estimates, design, construction administration, preparation of reports, plans and specifications. While with other firms, he conducted extensive research on pile-supported approach slabs. He has designed projects in accordance with <i>DOTD's "Roadway Design Manual"</i> , "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . 94/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at		brief description of responsibilities		C C			
mm/yy-mm/yy "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). Mark A. Schutt will be the *Lead Civil Engineer/Designer* on this project. His experience includes client contact, cost estimates, design, construction administration, preparation of reports, plans and specifications. While with other firms, he conducted extensive research on pile-supported approach slabs. He has designed projects in accordance with *DOTD's "Roadway Design Manual"*, "Hydraulics Manual"*, "Bridge Manual"*, "AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for *Traffic Control Supervisor and Flagger.* O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 dother to a ma	Experience dates	Experience and qualifications rele	evant to	the proposed contract; <i>i.e.</i> , "designed drainage", "design	ed girders",		
design, construction administration, preparation of reports, plans and specifications. While with other firms, he conducted extensive research on pile-supported approach slabs. He has designed projects in accordance with <i>DOTD's "Roadway Design Manual"</i> , "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . 04/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S' curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations,							
research on pile-supported approach slabs. He has designed projects in accordance with <i>DOTD's "Roadway Design Manual"</i> , "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for Traffic Control Supervisor and Flagger. O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. O6/13-02/19 State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009	Mark A. Schutt	will be the <i>Lead Civil Engineer/Design</i>	<i>gner</i> on	this project. His experience includes client contact, cost est	imates,		
"Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", and the "Louisiana Standards and Specifications for Roads and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for Traffic Control Supervisor and Flagger. O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	design, construct	tion administration, preparation of rep	orts, pl	lans and specifications. While with other firms, he conducte	d extensive		
and Bridges". Mr. Schutt is a member of the Louisiana Engineering Society, the American Society of Civil Engineers, and the National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. O6/13-02/19 State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	-	11		•			
National Society of Professional Engineers. Mr. Schutt attended DOTD's Designing Pedestrian Facilities for Accessibility, CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	•	, ,		· • • • • • • • • • • • • • • • • • • •			
CADconform, and Control CAD Indexter Seminars. He has completed Local Public Agency Qualification for Core Training; Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:							
Construction Engineering & Inspection; Project Planning; Feasibility & Application Development Workshop; and Project Design and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. O6/13-02/19 State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	_			5 5	•		
and Delivery Training. He completed LTAP's Local Road Safety Program Crash Data Workshop II. He is currently in the process of renewing his certification for <i>Traffic Control Supervisor and Flagger</i> . O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:							
O4/19-Present O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:							
O4/19-Present S.P. No. H.011310: Ford Street Extension, East Baton Rouge Parish: Lead Project Engineer for preparing Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:					ie process		
Preliminary Plans to extend Ford Street from LA 67 (Plank Road) to Howell Place Road. The extension will be an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:					•		
an urban collector with a design speed of 30 MPH and will consist of two (2) 11' lanes, 30' raised grass median, curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	04/19-Present			, , , , , , , , , , , , , , , , , , , ,			
curb and gutter with subsurface drainage and sidewalks. Water and sewer will also be included in the design. State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:		1		· · · · · · · · · · · · · · · · · · ·			
O6/13-02/19 State Project No. H.010184: LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish: Lead Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:		O 1		` ,			
Project Engineer who designed the road, geometry, and drainage for LA 59: Curve Realign and Tunnel at Trace project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	06/13 02/10	Ť Total					
project. Improvements included flattening the radius of LA 59 at the existing dangerous "S" curve as the road crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:	00/13-02/19	•		,			
crosses the trace, and construction of a pedestrian tunnel under LA 59. Work included a new roadway section as well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M O6/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:		v c					
well as widening an existing section of LA 59. Other road improvements included drainage, utility relocations, and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:							
and raising the grade of the road two feet under the tunnel. Construction Cost: \$3.6M 06/10-05/18							
06/10-05/18 State Project No. H.009770: St. John Mississippi River Trail – Phase I-IV, St. John the Baptist Parish:							
	06/10-05/18				Parish:		
	33,10 02,10	•		* * · · · · · · · · · · · · · · · · · ·			

	Levee from the St. Charles Parish line to the St. James Parish line. The work also includes drainage, a ramp, a
	pedestrian crossing on River Road, signage, and striping. Construction costs of all four (4) phases is \$7.2
	Million.
10/00-12/11	State Project No. 742-26-0044: Harvey Boulevard (Wall Boulevard to Engineers Road), Jefferson and
	Plaquemines Parishes: Assisted with design of roads, geometry and drainage for preliminary and final plans
	and construction support services for Harvey Boulevard from Wall Boulevard to Engineers Road (approximately
	4,800 LF), located in Jefferson Parish and Plaquemines Parish. The new asphaltic concrete roadway included
	four (4) 12' lanes, concrete curbs, new traffic signals and subsurface drainage. The project also included two (2)
	250-feet long girder span bridges, drainage outfalls, backfilling a major canal, and bulkheading around an
	existing 30-inch gas line. The work also included a 180' long pile supported approach slab over a backfilled
	canal to avoid future settlement problems. Construction Cost: \$8.9M
01/16-07/19	State Project No. H.011835: Washington Parish Sidewalk Improvements, Washington Parish: Project
	Engineer for the design and construction administration for the Washington Parish Sidewalk Project. The project
	consists of 4,000 linear feet of 6-foot-wide decorative concrete sidewalks along Cleveland Street, Main Street
	(LA 25), Ellis Street, Washington Street (LA 10), Pearl Street and Jackson Street. The sidewalks provide a non-
	motorized transportation link in the community and will tie into the Safe Routes to School Project around the
	Franklinton Junior High School. Future phases to extend the path along Main Street (LA 25) and along Boat
	Ramp Road are in conceptual design phase. The project provides connectivity between residential
	neighborhoods and established commercial areas and government services. This project is being funded in part
	by DOTD through the Transportation Alternatives Program. Meyer is coordinating with DOTD as well as
	Washington Parish. Construction Cost: \$345K (EST)

Firm er	nployed by	: Meyer Engineers, L	td.			
Name		James Papia, AIA, NCARB, CSI			Years of relevant experience with this firm/employer	11
Title	tle Director of Architecture				Years of relevant experience with other	28
]	firm(s)/employer(s)	
		/ Specialization			Architecture, 1981	
		number / state / expir			/ Louisiana / 12-31-2022	
	gistered		Discipline	Archit		
	. ,	prief description of res			n & Inspection of Operating & Machine Houses	
_	ence dates y–mm/yy)				the proposed contract; i.e., "designed drainage", "designates should cover the time specified in the applicable MPR	
Deferson Parish: Lead Architect for the Architectural Defersor Parish: Lead Architec		Parish: Lead Architect for the Architectural Design Service ibrary, auditorium, civic center, and museum. Mr. Papia was eparation of the design schedule and cost estimates. Mr. Pahe engineering consultants during the schematic design, dephases. Throughout the course of the project Mr. Papia proproject was delivered on time and under budget. After published The Town of Jean Lafitte in negotiating with the appropriations.	es a as the lead apia also esign ovided blicly parent low			
09/11 -	07/13				South I estimates. ements drawings	
10/12 -	O/12 – 07/15 Regional Transit Authority Carrollton Streetcar Facility Renovation and Upgrade Orleans Parish: Lead Architect for the Architectural Design Services for the historic building that was built in the late 1800's to see as a streetcar maintenance and storage facility. Meyer Engineers was the consulting Architect and structural engineer to Royal Engineers for this project. Mr. Papia managed the project for Meyer for the architectural structural engineering department. Mr. Papia directed the research necessary to preserve this historic structural				0's to serve ructural ectural and	

	Mr. Danie delegated the meetenstien went to several architectural stoff members and surrarised development of
	Mr. Papia delegated the restoration work to several architectural staff members and supervised development of
	the construction documents. Mr. Papia coordinated the work between Meyer and the MEP and structural
	consultants for the projects including preparation of contracts and preparation of the project schedule.
	Construction Cost: \$3M
01/16- 09/15	Slidell I-59 DOTD Rest Area St. Tammany Parish: Lead Architect for the Architectural Design and
	Construction Services for the renovations and upgrades to the DOTD Rest Area in Slidell, Louisiana. Mr. Papia
	directed the schematic design, design development, and construction document phases of the project, including
	project scheduling and cost estimating. Since the rest areas are widely used by the public, accessibility was of
	paramount concern. Mr. Papia, a certified ADA expert, conducted extensive research regarding ADA
	accessibility to the facility to ensure that all parts of the entire rest area was accessible. Mr. Papia was the
	Quality Control manager for the project and reviewed all drawing and specifications prior to public bidding.
	During construction, Mr. Papia made several visits to the site to ensure that the project was being constructed in
07/16 P	accordance with the construction documents. Construction Cost: \$2.1M
07/16 - Present	Port of South Louisiana Administration Building St. John the Baptist Parish: Lead Architect for the
	Architectural Design and Construction Services for the new 30,000 square feet facility located on the Mississippi
	River in Reserve, Louisiana. For the Port, Mr. Papia developed the project and established the budget for the
	project. Mr. Papia directed the programming team in the development of a good, solid, working program
	describing in detail the spatial and functional needs of the Port Authority. After programming, Mr. Papia
	supervised the design team in creating an exciting building image that the Port Authority desired. In addition to
	managing the overall preparation of the construction documents, Mr. Papia assisted in developing extensive
	details of the building in the construction documents phase. Mr. Papia was the Quality Control manager for the
	project and reviewed all drawing and specifications prior to public bidding. Mr. Papia is also assisting the Port
	Authority with the selection of Furniture, Fixtures and Equipment (FF&E). Now that construction is in progress,
	Mr. Papia is assisting in reviewing shop drawings, product data and material and color selections. Throughout
	the entire project process, Mr. Papia regularly attended Port Authority Board Meetings to report on the status of
	the project. Estimated Construction Cost: \$9M
	the project. Estimated Construction Cost. \$9191

Firm en	Firm employed by: Meyer Engineers, Ltd.					
Name	Adrianna	a Gernon Eschete, I	LEED AP	Years of relevant experience with this firm/employer	10	
Title	Architect			Years of relevant experience with other	10	
				firm(s)/employer(s)		
Degree	(s) / Years	/ Specialization		B.S. Architecture, 2000		
		number / state / exp		6719 / Louisiana / 12-31-2022		
	gistered	2007	Discipline	Architecture		
	` ,	orief description of re				
Experie	ence dates			evant to the proposed contract; i.e., "designed drainage", "designed		
	/–mm/yy)			rience dates should cover the time specified in the applicable MPR(
10/16 -	Present			ange & Training Facility St. John the Baptist Parish: Project Archi		
		Construction Services for the demolition of the existing structure and foundation and the construction of new				
		•	-	awings and specifications and is currently handling the processing of	-	
		<u> </u>		She also handles all coordination with Owner, Contractor and subc	onsultants.	
0=11.5		Construction Cost:				
07/16 -	Present			ration Building St. John the Baptist Parish: Project Architect and	. 1 .	
				new 20,000 square feet facility three level administration buildings.		
				cations and is currently handling the processing of shop drawings an		
			handles all co	ordination with Owner, Contractor and subconsultants. Constructio	on Cost:	
00/10	10/16	\$9M	0.1 1 0.1		•	
08/12 –	- 10/16			ans Parish: Project Architect for the Architectural Design and Const		
Services of the renovations to the historic elementary school Lusher Elementary located in New Orleans						
Louisiana. Adrianna prepared the drawings and specifications and completed the processing of shop draw			_			
	and conducted site visits. She also handled all coordination with the Owner, Contractor and subconsultants.				ltants.	
		Construction Cost:	\$4./M			

Firm en	nployed by	: Meyer Engineers, Ltd.			
Name	Alfonso 1	Romero, NCARB	Years of relevant experience with this firm/employer	1	
Title	e Architect		Years of relevant experience with other	34	
			firm(s)/employer(s)		
		/ Specialization	B.S. Architecture, 1985		
		number / state / expiration date	9367 / Louisiana / 12/31/2022		
	gistered	2020 Discipline	Architecture		
	. ,	prief description of responsibilities	Project Architect		
(mm/yy	ence dates y-mm/yy)	"designed intersection", etc. Exper	vant to the proposed contract; i.e., "designed drainage", "designed dates should cover the time specified in the applicable MPR	k(s).	
Causeway Bridge Bascule Bridge Tender's House Jefferson Parish: Project Manager for the rehabilitation the upper two levels of the Bridge Tender's House. The work consists of removing and replacing all existing windows at the operator's level with new impact resistant glazing, reconfiguring one of the windows into an impact resistant, operable door to allow direct access to the catwalk outside, painting all interior surfaces, removing and replacing existing flooring, removing and replacing all furniture/millwork with new construction providing better lighting, upgrading the air conditioning, recovering the existing roof surface, repairing the access ladder to the roof and installing new safety railings, and patching and repairing any structural damage Construction Cost: \$226K			existing s into an faces, construction, and the damage.		
Skelly Rupp Stadium Repairs Orleans Parish: Project Manager responsible for review of the conditions of facility and investigated the required scope of work to make the entire stadium and sports facility to be operational, compliant with building codes, and LSHAA standards due to damage from Hurricane Katrina. T work included parking lot resurfacing, striping, stormwater drainage, signage, repair and prevent soil subside compliance with ADA, lighting, and perimeter fencing with entry gates. The stadium improvements consist or repair and replacement of the aluminum bleacher/stand, press box, handicap ramps, bleacher entry steps, root structural repairs, improved lighting and sound system, electrical controls to the sports facility and restoring connections and operations of the score board, air conditioning in the press box. Also renovate and refurbish restrooms, concession stand, ticket booth, offices, including repairs to roof and roofing, masonry repairs and cleaning, interior refinishing, replacing code compliant drinking water fountains, exterior grounds and facilit The project is FEMA funded. Construction Cost: \$1.7M			be atrina. The l subsidence, consist of teps, roof, estoring efurbish all pairs and and facilities.		
02/21 –	- Present				

	addressing the roof leaks, the project includes various	rederick Sigur Civic Center. The work includes the ightweight insulating concrete metal deck. In addition to s work that is or may be required to correct damage to the roof leaks. The project is FEMA funded. Construction Cost:		
07/21 – Present		on Parish: Project Manager responsible for preparing a site		
	assessment of the facility to propose what direction is required for the existing roof. The project consists of			
	3,500 SF of retrofit roof to repair water leakage into the building. Construction Cost: \$276K			

Firm er	nployed by	Meyer Engineers, Ltd.			
Name	Don Mau	ıras, RA		Years of relevant experience with this firm/employer	6
Title	Title Architect			Years of relevant experience with other	32
				firm(s)/employer(s)	
		/ Specialization		B.S. Architecture, 1981	
		number / state / expiration		3759 / Louisiana / 12-31-2022	
	gistered	L	scipline	Architecture	
		orief description of respon		Design & Inspection of Operating & Machine Houses	
(mm/yy	ence dates y–mm/yy)	"designed intersection",	, etc. Experi	vant to the proposed contract; i.e., "designed drainage", "designed ence dates should cover the time specified in the applicable MPR	(s).
O6/18 - Present Louisiana National Guard Armories R Architectural Design and Construction Armories Facilities throughout 24 part construction documents, scope of wor is responsible for meeting the strict de			d Construct oughout 24 p , scope of v ng the strict	s Renovation of Indoor Firing Ranges Statewide: Project Managetion Services for the renovation of firing ranges at 32 National Guparishes in Louisiana. Don is responsible for the preparation of the work, probable construction cost estimate and writing the specifical deadline imposed by the Owner therefore he was responsible for abconsultants. Construction Cost: \$2.5M	ard e
10/17 –	- 10/20	Repair Balconies and Stairs at Historic Garrison Residences – Jackson Barracks Orleans Parish: Project Manager for the Architectural Design Services and Construction Services for the replacement of damaged structural framing, decking and stairs on the balconies at fifteen (15) historic residences at Jackson Barracks in New Orleans. Don was responsible for preparation of the scope of work, probable construction cost estimate, construction documents and writing the specifications. Don was responsible for meeting the strict deadline imposed by the Owner therefore he was responsible for coordination with the Owner and subconsultants. Don also performed the Construction Administration services by making site visits, taking progress photos, coordination with Contractor, Subconsultants and Owner during the duration of the project. He also processed change orders and pay application and review and approval of shop drawings. Construction Cost: \$685K			
O3/15 – O5/17 Lamar Dixon Expo Center Gymnasium Renovations Ascension Parish: Project Manager for the A Design and Construction Services for the upgrade and expansion to the gymnasium at Lamar Dixon in Gonzales, Louisiana. He was responsible for the preparation of the construction documents, scope probable construction cost estimate and writing specifications. He was responsible for site visits, prochange orders, pay applications, review and approval of shop drawings and resolving any construction coordinated with the Contractor, Subconsultants, and Owner during the duration of the project. Construction Cost: \$339K				rchitectural Expo Center of work, cessing n issues. He	

09/12 - 02/16	Cleary, Bright and Lakeshore Gymnasium HVAC Jefferson Parish: Construction Administrator for the
	Construction Services for the replacement and updating of the HVAC systems in three (3) east bank existing
	Jefferson Parish gymnasiums. He was responsible for site visits, processing change orders, pay applications,
	review and approval of shop drawings and resolving any construction issues. He coordinated with the
	Contractor, Subconsultants, and Owner. Construction Cost: \$1.7M.

Firm employed by Meyer Engineers, Ltd.				
Name Elen	a Anderson, IIDA, NCIDQ	Years of relevant experience with this employer	18	
Title Inter	ior Designer/Project Manager	Years of relevant experience with other employer(s)	0	
Degree(s) / Y	ears / Specialization	B.S. Interior Design, 2003		
Active registr	ration number / state / expiration date	1353 / Louisiana / 12-31-2022		
Year registere	ed 2009 Discipline	Interior Design / ADA Compliance		
		ADA Inspection & Compliance		
Experience da		vant to the proposed contract; i.e., "designed drainage", "design	_	
(mm/yy-mm/		ence dates should cover the time specified in the applicable MPR		
07/05 - 07/07	-	hase I St. John the Baptist Parish: Draftsman and assisted Desig		
		ting redline corrections and plotting plans for review. During cons		
		elections to present to the Owner; making a materials and color be	oard for	
	them to review and approve. Constr			
01/05 -10/07		Parish: Assisted with the Project Management reviewing and rev		
		l as calculating and determining project additive Alternates. Durir		
		ssisted the project architect by drafting and making redline correc		
		r. Anderson also conducted Construction Administration tasks inc	cluding the	
04/02 - 11/07		d steel frame submittals. Construction Cost: \$216K	L _	
04/02 - 11/07		Northshore Toll Plaza Renovation St. Tammany Parish: Assisted with the design and drafting for the miscellaneous renovations to the toll plaza facility. She conducted Construction Administration services during		
		g submittals, made color and material finishes sections and prepare		
		presented it to the Owner. Construction Cost: \$4.5M	eu a	
08/17 - 10/20		lities Upgrade Jefferson Parish: Project Manager, Interior Desig	ner and	
00/17 10/20		ation Services for this project. Mrs. Anderson designed the aesthet		
		d consultants to provide a new office space and upgraded facility		
		lean, and accessible modern spaces. The design included facility s		
		construction Mrs. Anderson performed the review of submittals, c	0 0	
		construction project manager. Additionally, she was responsible		
	-	with the McCormick and Zatarain's brands. Construction Cost: \$2.		
07/16 – Prese	nt Port of South Louisiana Administra	tion Building St. John the Baptist Parish: Interior Designer for	a new	
	20,000 square feet three level admir	nistration building. She assisted with the architectural design and	drafting for	

	the project. Mrs. Anderson performed the Interior Design services by selecting and writing specifications for inferior materials and finishes. Construction Cost: \$9M				
07/16 - Present	Children's Hospital of New Orleans Expansion Orleans Parish): Assisting the Project Engineer by providing				
	ADA consulting and reviewing for general accessibility in compliance with the ADA Guidelines for the				
	expansion of Children's Hospital (Henry Clay Ave. & State Street) Campus for the new hospital, and behavioral				
	health hospital site roadwork, pedestrian access walkways and parking. Estimated Construction Cost: \$255M				
07/17 - Present	Mid-Barataria Sediment Diversion Facilities East Baton Rouge Parish: Project Manager for the design of a				
	new building. She is drafting construction documents and writing specifications.				

Firm employed by	C. H. Fenstermal	ker & Associat	tes, L.	L.C.	
Name Travis B	Bodin, MBA, PLS, 1	PMP		Years of relevant experience with this employer	17
Title Vice Pre	Vice President, Survey and Mapping			Years of relevant experience with other employer(s)	1
Degree(s) / Years / S			B.S.	/ 2004 / Industrial Technology	
Active registration i	number / state / expi	iration date	PLS	.0005067 / LA / 3.31.2024	
Year registered	2011	Discipline		essional Land Surveyor	
Contract role(s) / br				essional Land Surveyor	
				to the proposed contract; i.e., "designed drainage", "designed	
<u> </u>				dates should cover the time specified in the applicable MPR(s	·
	•		-	t Fenstermaker and has over 17 years of surveying, manage	
1		• •		ecting and overseeing the daily activities within the Survey D	
	•			es. He has served as the Lead Surveyor for projects across Lou	
_		_		of surveying/ROW services, utility relocation coordination, co	_
_	_			cost estimating, scoping, scheduling and planning, resource ma	_
	_		_	nd in surveying and project management, Mr. Bodin has perf	
				large scale topographic and boundary surveys, right-of-w	ay maps,
				monumentation, process and procedural development.	-4
\mathcal{C}	•			ed Initiative (LWI) Modeling Contract – Region No. 6: Fen unprecedented project that will manage the future flood risk i	
				solutions. Fenstermaker is responsible for assisting with va	
	-	-		sis, surveying, drone imaging, and GIS services to successfull	
	<u> </u>			draulic and hydrologic models for Region 6. Through Tasl	
		_	•	and analyzing available data, and stakeholder and agency co	· ·
		• •	_	ys and hydraulic structure data from existing models, studies, e	
	-			bugh coordination with local, regional, state, and federal	
	0	•		ing all acquired data to the project datum and confirming the	_
		_		nditions to successfully complete a data gap analysis.	
				this project, providing QA/QC of all survey deliverables.	
			•	nt (Calcasieu Parish, LA): Fenstermaker was contracted by	Calcasieu
				l engineering services related to the replacement of two (2) brid	
	on Farm Road. Mr.	. Bodin assiste	d with	survey crew coordination, the review of data collection and	boundary
	surveys.				_

04/10-09/18	Lebesque Road Bridge Replacement and Road Reconstruction (Lafayette, LA): Fenstermaker was contracted
	by Lafayette Consolidated Government to provide the design of the replacement of Lebesque Bridge and Lebesque
	Road Reconstruction. Mr. Bodin served as survey principal and provided oversight of survey crew coordination,
	right-way and boundary surveys, title research, utility coordination, topographic and bathymetric surveys, and the
	processing of survey data.
12/08-07/18	LADOTD Permit No. 03030387: Kaliste Saloom Rd Widening, Intersection Improvements, Bridge, and
	CE&I (LA 3073 to LA 733) (Lafayette, LA) Mr. Bodin served as the Surveyor PM. Fenstermaker performed the
	topographic survey of all cross street and road tie-ins, cross sections for the purpose of an existing elevation DTM
	and parcel boundaries effected by the ROW. Mr. Bodin was responsible for field crew coordination, topo/boundary
	surveys, ROW plats, monuments, data processing, plats, and legal descriptions.
04/12- 09/13	Baker Canal Bridge (US 61) (East Baton Rouge Parish, LA): As a subconsultant, Fenstermaker's
	responsibilities were to survey the existing project extents for the creation of an accurate DTM of the project area.
	create construction plans, demolition of the existing bridge, and construction of a detour bridge. Mr. Bodin served
	as survey technician, providing topographic and bathymetric surveying. Mr. Bodin assisted with processing survey data
	providing quality control, and coordinated with field crew.
12/17-08/18	City of Carencro 2018 Asphalt Overlay (Lafayette Parish, LA): Fenstermaker was contracted to provide
	surveying, design, utility coordination, temporary traffic control and construction administration and inspection.
	The project was located along several different roadways within the City. The planned construction includes
	milling, overlay and patching along approximately 2,350-ft. of Hector Connoly Road, 1,250-ft. along W. Butcher
	Switch Road, and 290-ft along Guilbeau Road. The project is following LADOTD Road Design Manual and
	MUTCD standards and procedures. Mr. Bodin served as Survey Principal and assisted with the processing of
	survey data and survey crew coordination,
11/17-04/18	I-10: Texas State Line–E. of Coone Gully – Roadway Lighting (Calcasieu Parish, LA): As a sub, Fenstermaker
	provided surveying services on this project, which entailed widening 10.5 miles of I-10 to six lanes from the Texas
	state line to east of LA 108, replace and widen 10 bridges, and replace the eastbound weigh-in-motion system.
	Fenstermaker performed a utility location survey for subsurface and above-ground utilities and a Mobile LiDAR Survey to capture 3D topographic data including existing ground and hard surfaces. Fenstermaker collected data
	on existing drainage structures, communication towers, billboard signs, trees, other overhead structures, and on the
	edge of the existing roadway/pavements. Mr. Bodin was responsible for QA/QC of survey, as well as data review
	and reporting related to LiDAR.
05/19-03/21	S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA): Fenstermaker completed the
	topographic and boundary surveys, established control, processed data, reviewed title reports, established property
	boundaries, and mapped encumbrances for the ~0.75 miles Railroad Relocation. LADOTD survey feature codes
	were utilized for this project, and LADOTD right-of-way maps along with COGOWIN legal descriptions were
	created. Mr. Bodin is serving as Project Principal and providing QA/QC for this project.

Firm employed by C. H. Fenstermaker & Associates, L.L.C.				
Name Justin B	ordelon, PLS	Years of relevant experience with this employer	16	
Title Manager,	, Surveyor	Years of relevant experience with other employer(s)	0	
Degree(s) / Years	/ Specialization	B.S. / 2009 / Business Administration		
Active registration	n number / state / expiration date	PLS 5271 / LA / 12.31.2022		
Year registered	2021 Discipline	Professional Land Surveyor		
Contract role(s) / b	orief description of responsibilities	Surveyor		
Experience dates	Experience and qualifications rele	vant to the proposed contract; i.e., "designed drainage", "designed	d girders",	
(mm/yy-mm/yy)		rience dates should cover the time specified in the applicable MPR		
investigations and the underwater ac Louisiana Departi	hydrographic surveys at Fensterma coustic investigation manager and v	r's Advanced Technology Group. He started performing underwiker in 2006. As the Advanced Technology Group grew, Mr. Bordworked on many projects including an inspection of over 100 broment. In 2015, he became a Survey Crew Manager and	delon became ridges for the	
03/15-05/15	precision measurement of the in-vertical providing critical measurements ustructure and the land-based appropositional data on monitoring target comparing this data to the position critical in illustrating any moveme	Laser Scanning Survey: Fenstermaker provided 3D laser scanning vater and land-based bridge pier supports and superstructure for L sed to determine if any misalignment issues exist with the center of spans. Fenstermaker also used a high accuracy 1" total staticates strategically placed during a previous survey performed five you all data collected on these targets during the previous survey. The total the bridge may have encountered or misalignment issues that he of vessel impacts. Mr. Bordelon served as the field technician for dates for this project.	ADOTD for r swing span on to collect ears prior for e dataset was ave occurred	
11/11-11/14	contracted to provide and is current inspection of pier systems for 72 sinspection and evaluation of the surand profiling remote sensing systems and profiling remote sensing systems. The purpose of deterioration of the pier structures at the acoustic imaging system and surrounding water bottom. The daincluded in a report that also docinspections. Mr. Bordelon was respective.	water Acoustic Imaging for Bridge Inspection Statewide: Fense thy providing Underwater Acoustic Imaging services for the under state-maintained bridges. The project scope consists of an underwater abmerged components of the piers utilizing a multi-axis, steered because multi-axis and acoustic data correlated to a Real Time Kinematic of the inspection and evaluation is to identify and locate any majoralong with a detailed localized inspection of any observed anomalic dive inspection; and to identify any localized scour impact or entains then processed, and mosaics of the acoustic imagery are gruments the findings and recommendations resulting from the Uponsible for the management of all field resources and the quality as Mr. Bordelon also processed the acoustic, hydrographic and topologic.	water bridge ater acoustic eam imaging (RTK) GPS or damage or es using both cosion of the enerated and (AI and dive and accuracy	

03/10-04/10	Almonaster Street Bridge Damage Inspection, New Orleans, LA: Fenstermaker was contracted to perform and Underwater Acoustic Imaging investigation of the Almonaster Avenue Bridge and the fendering system for the bridge. This entailed scanning the bridge abutments as well as the fendering system and Dolphin Cells as well as documenting the disposition of debris on the water bottom. Mr. Bordelon served as survey technician, collecting images of the fender system with MS 1000 in the field and creating the Autocad mosaics.
	DOTD SP No. 700-29-0112: Leeville Pier #1, Acoustic Imaging, Lafourche Parish, LA: Fenstermaker performed a topographic and high definition (laser scan) survey of the West Larose Vertical Lift Bridge on LA 1
06/13-07/13	in Larose, Louisiana as a subconsultant to support the bridge renovation for LADOTD. As a result of the survey, Fenstermaker established low steel vertical clearances in the bridge up and down positions, bridge pier elevations,
l t	and roadway clearances at the approaches, temporary benchmarks as a baseline for future surveys, and shoreline topographic surveys on both sides of the channel within the limits of the existing fenders and 50 feet in each direction. Mr. Bordelon served as Project Manager and provided field coordination and review of data collection.
	Calcasieu Parish (HUC 8) Watershed Modeling & Planning, Calcasieu Parish, LA: Fenstermaker provided
	surveying services within the project area in support of the modeling efforts for the project. The survey task
1 13//11-11//1	consisted of the collection of roadside ditch inverts, cross drains, high and low cords on existing bridge decks, and
	documentation of the existing conditions of the crossings. Mr. Bordelon oversaw field coordination, project
	management, and data processing for all the bathymetric surveys required for the Calcasieu Parish (HUC) 8 Watershed Modeling & Planning Project.
	Horace Wilkenson Bridge Mississippi River Bridge Inspection, West Baton Rouge Parish, LA: Fenstermaker
	provided an Underwater Acoustic Imaging inspection of a damaged bridge pier fender system, for LADOTD after
	a ship collided with the bridge, to assist in damage assessment and debris disposition mapping. Mr. Bordelon
5	served as the Field Team Crew Leader and lead acoustic technician on this project, managing the field crew,
	conducting site visits, processed data, provided QA/QC of data, and prepared the report on findings.
	S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA): Fenstermaker completed
	the topographic and boundary field surveys, established control, post-processed data, reviewed title reports,
	established property boundaries and mapped encumbrances for the approximately 0.75-mile Railroad Relocation for the Port of Lake Charles in Lake Charles, Louisiana. LA DOTD survey feature codes were utilized for this
1 113/19-113//1	project, and LA DOTD Right of Way maps along with COGOWIN legal descriptions were created. The maps
	followed the specifications set forth in the LA DOTD Location & Survey manual in conjunction with direction
	from LA DOTD agents. Maps went through LA DOTD's internal review process and have been accepted for final
	recordation. Mr. Bordelon was responsible for field coordination for this project.

Firm employed by C. H. Fenstermaker & Associates, L.L.C.						
Name Joe Brou	ussard	Years of relevant experience with this employer	7			
Title Survey T	Technician	Years of relevant experience with other employer(s)	11			
Degree(s) / Years	1	B.A. / 2003 / Creative Writing				
Active registration	n number / state / expiration date	2016, Remote pilot certification, Small Unmanned Aircraft System	m, #3909218			
Year registered	Discipline					
Contract role(s) /	brief description of responsibilities	Underwater Acoustical Imaging				
Experience dates		vant to the proposed contract; i.e., "designed drainage", "designed				
(mm/yy-mm/yy)		rience dates should cover the time specified in the applicable MPR				
		the Advanced Technologies Group and serves as our lead technic				
		l bathymetric survey operations. He has significant experience in sonar and multi-beam systems, single beam echosounders, pipe				
		While he has performed as a technician on several laser scanning				
		perations utilizing the equipment mentioned above.	sarveys, ms			
07/15-04/16	·	andings Multi-Beam Survey, Aransas Pass, Texas, Survey P	arty Chief:			
07/10/01/10		beam survey of the north and south ferry landings for the TXDO				
		Multi-Beam System combining bathymetry and side scan sonar				
		M/V System for accurate position, heading, attitude, heave, and v				
		system. Mr. Broussard served as our lead technician responsible	for all data			
11/20 11/21	collection activities and quality of		• 0			
11/20-11/21		Authority – East. Outfall Canals Topographic & Bathymetr				
		d assisted the on-site crew, prepared for and created the flight plan bathymetric and side scan data, processed collected data, and assis				
		was a multi-award-winning project that Fenstermaker conducted				
		metric survey data for the 17th, London, and Orleans Outfaal Can				
	and monitor erosion.	, , ,				
01/16-02/16	Wax Lake Outlet Bulkhead Acc	oustic Survey, St. Mary Parish, LA. Survey Party Chief. Fenste	ermaker was			
		erform an Acoustic Multi-Beam Profiling and Imaging Investigation				
		anel centered on the 36" Trunkline overhead pipeline crossing, with i				
	emphasis on the disposition of the failed bulkhead on the west bank of the channel. Mr. Broussard served as lead					
02/20 11/20	acoustic technician on this project responsible for all data collection activities.					
02/20-11/20	02/20-11/20 Delacroix Marsh Creation Project (BS-0037) (St. Bernard Parish, LA). Survey Technician. Fenstermaker performed bathymetric, topographic, magnetometer, side-scan sonar, and sub-bottom profile surveys within the					
		of Delacroix Island. Mr. Broussard was involved in preplanning				
	1 * *	side scan, and magnetometer data processing, along with the Coasta				
		A) Louisiana SAnd Resources Database (LASARD) deliverables.				

12/15-02/16	Cross Lake Dam Spillway and Water Intake Structure Multi-Beam Survey and Underwater Acoustic
	Imaging Investigation (Shreveport, LA). Survey Technician. Fenstermaker was contracted by Denmon
	Engineering Co., Inc. to perform an Underwater Acoustic Imaging (UAI) Investigation of the concrete spillway
	and water intake structures at Cross Lake Dam in Shreveport, LA and a multi-beam survey of the dam embankment
	and water intake channel for the purpose of evaluating rehabilitation needs. Mr. Broussard served as lead acoustic
	technician on this project responsible for all data collection activities.
07/20-07/21	Maurepas Freshwater Diversion and West Lake Shore Pontchartrain Reaches 16-19 (St. John the Baptist
	Parish, LA) The Maurepas Diversion is a proposed 2,000 cubic foot per second (cfs) freshwater diversion from
	the Mississippi River into the Maurepas Swamp. The West Shore Lake Pontchartrain (WSLP) project will provide
	hurricane and storm-damage risk reduction in St. Charles and St. John the Baptist Parishes. Fenstermaker was
	tasked to collect survey data based on a specific survey plan developed to provide sufficient information for
	engineering design. Survey data collected include topographic, hydrographic (bathymetric and magnetometer),
	and geodetic.Real-time Kinematic (RTK) GPS technology, along with single and multi-beam bathymetric data
	collection (hydrographic), and aerial LiDAR surveys were all implemented to provide the survey data necessary
	for planning of the next phases of this project. Mr. Broussard coordinated field crews, drafted reports, and reviewed
01/16/02/16	and processed data.
01/16-02/16	McComb Spillway Railroad Bridge Erosion Monitoring Project (St. Charles Parish, LA): Fenstermaker was
	contracted by Canadian National Railway Company to provide onsite support and assistance through specialized
	high definition underwater acoustic imaging for monitoring, via onsite display of sonar imagery, the disposition of the water bottom adjacent to and around the pile foundation trestle supports of the Canadian Nation Railway
	rail line bridge over the Bonnet Carrie Floodway north of the Bonnet Carrie Spillway in Saint Charles Parish. Mr.
	Broussard assisted with lead acoustic technician responsibilities on this project in charge of all data collection
	activities and client interaction with sonar imaging and viewing.
10/15-12/15	Volkert, Inc. – Winston County Underwater Acoustic Imaging Bridge Inspections: Fenstermaker performed
10/13-12/13	Underwater Acoustic Imaging Inspections of the underwater portion of the bridge pier systems for four bridges in
	the Lewis Smith Lake for Winston County, Alabama, in conjunction with Volkert, Inc. Mr. Broussard served as
	the lead acoustic technician on a portion of this project responsible for all data collection activities and quality of
	work. The acoustic imagery and profiling was performed using the MS1000 Kongsberg Mesotech remote-sensing
	imaging sonar/profiler. Upon completion of the survey, Mr. Broussard also assisted with processing the acoustic
	imagery and generating the acoustic imaging plats for submittal to the client.
07/20-01/21	Post Hurricane Laura & Delta Survey-Port of Lake Charles (Calcasieu Parish, LA). Fenstermaker performed
	a side scan sonar and a bathymetric survey to determine existing water bottom depths and to show any debris or
	hazards to navigation after the Hurricane Laura and Delta Events. As the project's crew chief, Mr. Broussard
	assisted in post processing of bathymetric and side scan data and executed the last bathymetric survey post
	Hurricane Delta.
10/21-11/21	Boat Terminal #1 Bathymetric Surveys, Calcasieu Parish, LA. Survey Party Chief. Fenstermaker was
	contracted by Port of Lake Charles to perform bathymetric surveys for the Boat Terminal 1. Mr. Broussard served
	as Party Chief performing these surveys.

Firm employed by C. H. Fenstermaker & Associates, L.L.C.							
Name	Name Dax Douet, P.E.				Years of relevant experience with this employer	25	
Title	Title Director, Engineer				Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization				B.S.	B.S. / 1997 / Civil Engineering		
Active	Active registration number / state / expiration date			PE.0	PE.0030170 / LA / 9.30.2022		
Year re	Year registered 2002 Discipline		Civil Engineering				
Contract role(s) / brief description of responsibilities Roadway			esponsibilities	way			
Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders",							

(mm/yy-mm/yy) "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).

Dax Douet is an Engineering Director with over 26 years of professional experience in design, planning, and project management. He has designed highways, roadways, drainage systems (open channel, sub-surface, and large scale 1- and 2-dimensional numerical models for coastal environments), interchanges, roundabouts, standard intersections, and various site developments. Additionally, Mr. Douet managed the preparation of over thirteen Stage 0 feasibility studies for the Louisiana Department of Transportation & Development (LADOTD). These feasibility studies were conducted for a wide range of transportation projects throughout the State of Louisiana to include roadway improvements, interstate highway interchanges, and grade-separated bridge structures. Mr. Douet has also led the preparation of geometric line and grade studies to support more than five Environmental Assessment documents in accordance with the National Environmental Policy Act (NEPA) guidelines. He has managed various multi-disciplinary projects and performed roadway corridor studies, traffic safety analyses, and feasibility studies, which encompass design, right-of-way, environmental, and utility work. He has attended the ATSSA Traffic Control Supervisor and Technician courses, the NHI Course No. 142005, "NEPA & the Transportation Decision Making Process" and the LADOTD Highway Safety Manual Workshop.

05/13-09/19

S.P. No. H.010620: US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build (Lafayette Parish, LA): Under the Design-Build Contractor, James Construction Group, Mr. Douet was the Lead Design Manager for the preparation of all engineering design components of the proposed upgrading of a portion of US 90 to a 6-lane controlled access facility to also include improvements to the existing east and westbound frontage road system, construction of a new 6-lane US 90 overpass structure over both Albertson Parkway and the existing BNSF railroad facility, and construction of all associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. In this role, Mr. Douet was involved directly in every aspect of the design to include roadway, drainage, traffic, and bridge design as well as the design of Mechanically Stabilized Earth Walls (MSEW) needed to construct the US 90 mainline improvements within existing right of way. In this capacity, he was required to also review all construction related Request for Information to ensure that all responses meet the expectations of LADOTD. Mr. Douet was the Engineer of Record for the final design and construction plans for Phase III of the project's roadway and drainage improvements to include developing calculations, meeting design code, development of design exceptions, and coordination of all QA reviews. Mr. Douet was also directly responsible for the management of four engineering sub-consultants on the design-build team to ensure that all design components met the overall goals and expectations of the project.

Prime consultant name: Modjeski and Masters, Inc.

01/17-Present	H.011235.5 I-49 South @ Verot School Road (LA339) (Lafayette, LA): Fenstermaker, as a sub-consultant, was selected to perform engineering design services for improvements to the existing intersection of U.S. Highway 90 (US 90) (Future I-49 South) and Verot School Road. Mr. Douet is one of the senior design engineers responsible for the widening of existing Verot School Road and improving existing U.S. Hwy. 90 to interstate standards. Mr. Douet aided in the development of a project line and grade study to help facility decision making on the future design for moving the project to preliminary plan development. Mr. Douet led the design of a multi-lane roundabout at the new Verot School Road intersection with South College Road. Mr. Douet also led the public outreach scope of the project by coordinating and hosting a public meeting which followed the procedures set forth by the Louisiana Department of Transportation and Development. primarily responsible for the preparation and hosting of the project's public meeting as part of the updating of the existing NEPA Environmental Impact Statement previously prepared in 2005, all roadway and drainage design, and temporary traffic control and sequence of construction for the project. Mr. Douet is also assisting with the temporary traffic control and sequence of construction for this project.
11/08-Present	LADOTD Permit No. 03030387: Kaliste Saloom Rd Widening, Intersection Improvements, Bridge and CE&I (LA3073 to LA733) (Lafayette Parish, LA): Mr. Douet is managing this \$34 million project, which includes fast-tracking all real estate appraisals, plats, and construction plans. Mr. Douet is also the Lead Design Engineer for the widening of approximately 1.7 miles. The roadway is an over-capacity major arterial roadway located in the center of Lafayette. Mr. Douet was directly responsible for the development of a line and grade study that allowed the LCG to choose between alternatives and determine the optimal locations for widening based upon impacts to businesses, cost of ROW, and
01/10 - 12/14	I-12 to Bush Environmental Impact Study (EIS) (St. Tammany Parish, LA): Mr. Douet was Lead Design Engineer for this LADOTD project. He was responsible for all line and grade tasks associated with this EIS, which were prepared in accordance with NEPA. The goal of the line and grade study was to review previously determined alternatives, identify the least damaging and most practical alternatives for further analysis, and provide revised alternatives that met current LADOTD design guidelines. Mr. Douet managed the study, which resulted in a Record of Decision by the U.S. Army Corps of Engineers (USACE) recommending a preferred alternative. Additional tasks involved construction cost estimating that encompasses the construction cost, right-of-way acquisitions, utility relocations, and mitigation requirements.
04/17-11/20	Cane River Bridge Church Street Route LA 1-X (Natchitoches Parish, LA): LADOTD in conjunction with the FHWA prepared a NEPA environmental assessment for the proposed replacement of Cane River Bridge on Church Street Route LA 1-X. Mr. Douet served as the project manager and lead engineer for preparation of the environmental document. He was responsible for all public outreach, agency coordination, preparation of the project line and grade study, coordination of the project's traffic study, development of project alternatives, development of cost estimates, coordination of the noise and air analysis, coordination of historical and archeological investigations, and coordination of various other environmental analysis.
11/13-06/15	LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA) This is a \$12.9 million contract with Fluor for engineering and consulting services which include the design of a 1.5-mile heavy haul route that will be utilized to transport oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. These oversized modules were as large as 300' in length and 75' in height requiring specialized transport vehicles. Mr. Douet aided in analyzing the ability of these specialized transport modules to navigate within an existing 2-lane roadway and determined areas along this roadway corridor that needed to be widened to provide for the turning radii of these transport modules. In addition, Mr. Douet aided in the roadway design components of this project to include performing quality control of the roadway geometry and the drainage design for the project.

Firm emplo		ker & Associa	ates, L.L.C.	
	ett Dufour		Years of relevant experience with this employer	16
Title Sur	rvey 360 Technician II		Years of relevant experience with other employer(s)	2
Degree(s)/	Years / Specialization		A.S. / 2004 / Civil, Surveying & Mapping Technology	<u>. J</u>
Active regis	stration number / state / exp	iration date	Survey Technician Certification Level 1 #804-2015	
	•		ATSSA Traffic Control Supervisor	
			ATSSA Traffic Control Technician	
Year register		Discipline	NA	
Contract rol	e(s) / brief description of re	esponsibilities	Survey Support - Survey Technician	
Experience	dates Experience and qua	alifications rele	evant to the proposed contract; i.e., "designed drainage", "designed	girders",
(mm/yy-mn			rience dates should cover the time specified in the applicable MPR(
Mr. Dufour	has been employed by C.	H. Fenstermak	ter & Associates, L.L.C. for 16 years and currently serves as a Ser	nior Surv360
Technician	II. He is responsible for pr	rocessing RTK	field data, preparing plat information, and assembling pre-survey	data for al
			vision. Mr. Dufour is proficient in all data processing aspects of hig aphic surveys, hydrographic surveys, route surveys, subsidence surveys	
			s. He is familiar with traditional survey methods as well as the latest,	
			g (UAI) and High Definition Surveying (HDS) and Dimensional Co	
	,	0 0		, ,
03/15-05/15	LADOTD-Harriso	onburg Bridge	Laser Scanning Survey: Fenstermaker provided 3D laser scanni	ng and high
	precision measurem	nent of the in-v	water and land-based bridge pier supports and superstructure for La	ADOTD for
	providing critical m	neasurements u	ised to determine if any misalignment issues exist with the center	swing span
	structure and the la	nd-based appro	oach spans. Fenstermaker also used a high accuracy 1" total static	on to collect
	l -		ets strategically placed during a previous survey performed five ye	-
	1 1	-	nal data collected on these targets during the previous survey. The	
	critical in illustratin	ng any moveme	ent the bridge may have encountered or misalignment issues that ha	ive occurred
			se of vessel impacts. Mr. Dufour served as survey technician, p	
			nning and targeting, processed data, prepared final drawings and data	asheets, and
	provided QA/QC of			
11/11-11/13			water Acoustic Imaging for Bridge Inspection Statewide: Fenster	
			ntly providing Underwater Acoustic Imaging (UAI) services for the	
		· •	for 72 state-maintained bridges. The project scope consists of an	
			of the submerged components of the piers utilizing a multi-axis, ste	
		•	sing system with all acoustic data correlated to a Real Time Kinen	, ,
	GPS positioning sys	stem. The purp	ose of the inspection and evaluation is to identify and locate any ma	jor damage

	or deterioration of the pier structures along with a detailed localized inspection of any observed anomalies using both the acoustic imaging system and dive inspection; and to identify any localized scour impact or erosion of the
	surrounding water bottom. The data is then processed and mosaics of the acoustic imagery are generated and included in a report that also documents the findings and recommendations resulting from the UAI and dive
	inspections. Mr. Dufour served as Survey Technician, providing field support profiling and imaging multiple bridges and water bottoms, processing collected data, and assisting with the preparation of findings reports.
06/13-07/13	DOTD SP No. 700-29-0112: Leeville Pier #1, Acoustic Imaging, Lafourche Parish, LA: Fenstermaker
	performed a topographic and high definition (laser scan) survey of the West Larose Vertical Lift Bridge on LA 1
	in Larose, LA as a subconsultant in support of the bridge renovation for LADOTD. As a result of the survey,
	Fenstermaker established low steel vertical clearances in the bridge up and down positions, bridge pier elevations,
	and roadway clearances at the approaches, temporary benchmarks as a baseline for future surveys, and shoreline
	topographic surveys on both sides of the channel within the limits of the existing fenders and 50 feet in each
	direction. Mr. Dufour served as the Lead Field Survey Technician on this project and lead the data processing.
08/17-09/17	Port of Lake Charles: Bathymetric Survey Bulk Terminal 1, Calcasieu Parish: Fenstermaker performed a
	bathymetric survey of Bulk Terminal 1. Mr. Dufour served as a survey technician creating the profile of the
	beneficial use of dredged material area 1 (BUDM 1) and added additional survey data to the surfaces, updated
03/13-05/13	surfaces, and recomputed the cross-sections. Hero Canal Levee, East of Harvey Canal at the Mississippi River for New Orleans District Army Corps of
03/13-03/13	Engineers, Orleans/Jefferson Parish, LA: This project provides improved hurricane protection for the
	communities of Belle Chase and Gretna. The scope of the project includes repairs and upgrades to the Hero Canal
	1st lift by increasing the grade elevation approximately 1.5 feet. Mr. Dufour was part of the survey team to set four
	permanent benchmarks were placed along the land side of the levee right-of-way. The hydrographic survey
	performed at Hero Canal was performed at standards that meet or exceed the USACE minimum accuracy
	standards, quality control, and quality assurance requirements for Navigation and Dredging support surveys for a
	soft bottom material classification.
05/07-11/07	Port of New Orleans: Poland Street Under Wharf Acoustic Survey (New Orleans, LA): Fenstermaker
	performed an under wharf acoustic survey to provide bathymetric contours and image visualization of the under
	wharf conditions at the Poland Street wharf. The underwater imaging utilized both vessel mounted and tripod
	deployments with a multiple number of setups and rotating sensor deployments. This method is necessary to
	achieve more effective coverage and varying perspectives of the area. One additional scan was included at an area
	of possible scour. Profiling was performed at 20' intervals down the wharf face. The deliverables were explained
	in a presentation to the New Orleans Port Authority, the USACE, New Orleans District, and the New Orleans
	Levee Board. Mr. Dufour assisted the Underwater Imaging team by importing images into AutoCAD, creating
	plats, and exporting 3D polylines from Cyclone.

16. Stail Experien		• 4				
Firm employed by C. H. Fenstermaker & Associates, L.L.C.						
Name Lance F			Years of relevant experience with this employer	16		
	360 Technician II		Years of relevant experience with other employer(s)	0		
Degree(s) / Years	*		A.S. / 2006 / Survey & Drafting			
	n number / state / expiration date	te	2016, Remote pilot certification, Small Unmanned Aircraft Syste	em #3934546		
Year registered	Disciplin	ne				
Contract role(s) / brief description of responsibilities			Survey 360 Technician			
Experience dates	Experience and qualification	s relev	vant to the proposed contract; i.e., "designed drainage", "design	ned girders",		
(mm/yy-mm/yy)	"designed intersection", etc.	Experi	ience dates should cover the time specified in the applicable MPF	R(s).		
Aerial Vehicle (U operations for the day-to-day techni Surveys, HDS Sc	(AV) and High-Definition Scan e project to ensure corporate Quical guidance and has final say anning, Dimensional Control s	ning (l A/QC g y in sulupport,	Advanced Technologies Division. Mr. Fontenot serves as the leaded HDS) / Dimensional Control survey technician and oversees all figuidelines and procedures are being utilized on projects. He also bmission of all data to project managers. Mr. Fontenot has per Boundary/Right-of-Way, Pipeline, Topographic, Roadway, Corrily across the Gulf Coast Area.	ield HDS/DC provides the formed UAV		
03/15-04/15	precision measurement of the providing critical measurement structure and the land-based positional data on monitoring comparing this data to the pocritical in illustrating any moover the 5-year timeframe be laser scan data and generating	e in-wa ents uso approa g target ositiona ecause g the do		A DOTD for r swing span ion to collect ears prior for e dataset was ave occurred occssing the		
11/13-12/13	Fenstermaker was contracted inspection of pier systems fo Inspection and evaluation of and profiling remote sensing	l to pro r 72 sta the sub g syster	rwater Acoustic Imaging for Bridge Inspection, Louisiana ovide Underwater Acoustic Imaging (UAI) services for the underwater-maintained bridges. The project scope consists of an Underwater Components of the piers utilizing a multi-axis, steered be multi-acoustic data correlated to a Real Time Kinematic cryed as Lead Survey Technician.	rwater bridge ater Acoustic eam imaging		
06/13-07/13	performed a Topographic and 1 in Larose, Louisiana for Mo the survey, Fenstermaker esta	l High l djeski o ablishe	eville Pier #1, Acoustic Imaging, Lafourche Parish, LA: In Definition (Laser Scan) Survey of the West Larose Vertical Lift In & Masters in support of the bridge renovation effort for LADOTD. In d low steel vertical clearances in the bridge up and down position aces at the approaches, temporary benchmarks as a baseline for full the steel vertical clearances.	Bridge on LA As a result of ns, bridge		

	and shoreline topographic surveys on both sides of the channel within the limits of the existing fenders and 50 feet
	in each direction. Mr. Fontenot served as the Lead Field Survey Technician on this project and lead the data
	processing effort.
05/18-01/19	Driftwood LNG Master ALTA Survey, Calcasieu Parish, LA: Fenstermaker was contracted by Driftwood LNG
	to generate an overall ALTA survey for the proposed site. Mr. Fontenot was responsible for flying the UAV for
	the project, data processing, quality control and assisting with producing deliverables.
04/17-02/20	Lafayette Consolidated Government-Kaliste Saloom Widening, Lafayette, LA: Fenstermaker's Engineering
	Division was contracted to provide engineering services in design of the Kaliste Saloom widening between LA
	733 and Ambassador Caffery. In support of this effort, Fenstermaker provided aerial mapping services of the
	alignment using UAV technology. Mr. Fontenot served as the lead UAV field technician responsible for operation
	of the drone system, and production of the topographic plats generated from the photogrammetric data.
07/13-12/13	West Larose Bridge Survey, Larose, LA: Fenstermaker provided 3D laser scanning of the West Larose Bridge
	carrying LA1 over Bayou Lafourche. Using our laser scanning technology, Fenstermaker was tasked to provide
	critical measurements of specific structural elements for the purposes of engineering design in the renovation of
	the bridge. Mr. Fontenot served as our lead laser scanning technician responsible for all aspects of data collection
	in the field and was instrumental in processing the laser scan data in the office.
06/10-10/12	Inner Harbor Navigation Canal, GIWW Barge, and Bayou Bienvenue Lift Gate Projects, Orleans Parish,
	LA: Fenstermaker was contracted to provide a rapid response on call survey service for performing high order
	surveys along with high speed laser scanners to report deviation in alignment and location of the interfaces between
	constructed features, design documents and components being fabricated offsite in support of the construction of
	the Inner Harbor Navigation Canal Sector Gates, the GIWW Barge Gate, and the Bayou Bienvenue Lift Gate
	Monolith. Fenstermaker linked the survey data and laser scanner data to allow the generation of a visual
	representation of the areas being surveyed. Mr. Fontenot served as our lead field survey technician on this project.

Firm employed by C. H. Fenstermaker & Associates, L.L.C.						
1 7	Gaspard, M.S., PMP	Years of relevant experience with this employer	9			
	, Environmental Specialist	Years of relevant experience with other employer(s)	7			
Degree(s) / Years	/ Specialization	B.S. / 2006 / Marine Biology				
	•	M.S. / 2008 / Marine & Environmental Biology				
Active registration	n number / state / expiration date					
Year registered	Discipline					
Contract role(s) /	brief description of responsibilities	Environmental and Permitting Services				
Experience dates		evant to the proposed contract; i.e., "designed drainage", "desig				
(mm/yy-mm/yy)		rience dates should cover the time specified in the applicable MP	. ,			
		tory and environmental compliance. He has performed Phase I E				
		nd Endangered Species Surveys, Biological Oyster Assessment, an				
		ercial, and private development clients. Mr. Gaspard completed the				
		rps of Engineers Wetland Delineation Training Course in 2009 ar	id the Hydric			
Soils Workshop in						
07/16-03/18	Fluor/Lyondell Basell – CVO/BI	O Pipeline Matrix (Harris and Chambers Counties, TX): M	r. Gaspard 1s			
		consulting services for both field work and regulatory compliance etland Delineations and regulatory compliance for numerous particles.				
	facilities near Harris and Chamber	es Counties. The regulatory compliance tasks Mr. Gaspard comp	oleted ranged			
	from utility crossings to local gove	rning bodies such as drainage districts and municipalities, all the	way up to the			
	federal Army Corps of Engineers p					
12/15 01/16	Hanny Hub to Wooks Island Pinel	line Project (Enlink Midstream) (Vermilion, Iberia, and St. Ma	any Danishas			
12/15-01/16		mental consulting services for both field work and regulatory con				
		ed a Wetland Delineation, Threatened and Endangered Species Su				
		Engineers permitting for the project. The pipeline was a 20" pipe				
		The pipeline traversed through the Vermilion Bay Oyster Seed Gro				
09/15-10/15	U.S. Army Corps of Engineers &	Texas Parks and Wildlife Permitting for Removal of Wells, Str	uctures, and			
07/13/10/13		: Fenstermaker performed an oyster assessment and seagrass s				
	Keller's Bay for two of the well loc	ations and associated flowline rights-of-way in navigable waters	regulated by			
		rs Act. An oyster and seagrass report of findings was submitted to				
	and the TPWD for review and appro	ovals. The reported impacts to exposed shell/reef and seagrass pla	ayed a role in			
		activities. Additionally, Fenstermaker conducted a wetland del				
	by Section 404 of the Clean Water	portion of the flowline right-of-way that traversed emergent wetla Act. Mr. Gaspard served as Oyster Biologist for this project.	nus regulated			
	by Section 404 of the Clean Water F	Tet. 1411. Gaspard served as Oyster Diologist for this project.				

Firm employed by C. H. Fenstermaker & Associates, L.L.C.					
Name Christopher Guidry				Years of relevant experience with this employer	24
Title Manager, Environmental Specialist			Years of relevant experience with other employer(s)	2	
Degree(s) / Years			B.S.	/ 1996 / Environmental and Sustainable Resources	
Active registration number / state / expiration date					
Year registered		Discipline			
Contract role(s) /		-		ironmental and Permitting Services	
Experience dates (mm/yy-mm/yy)				to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable MPR	
Fenstermaker's I Environmental D development clie construction active Discharge Elimin Delineations, We He has secured repermits that are is Software & Train refresher course in the FHWA-NHI (Mr. Guidry's experience primarily consists of environmental compliance and securing federal, state, and local permits. A member of Fenstermaker's Due Diligence Team, Mr. Guidry's duties include overall project manager and field investigation support for Environmental Due Diligence projects. He also manages Phase I Environmental Site Assessment projects for commercial and private development clients. Mr. Guidry has prepared Storm Water Pollution Prevention Plan manuals and conducted inspections for construction activities associated with pipeline projects as required by the Environmental Protection Agency's National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit. Mr. Guidry also has experience in Wetland Delineations, Wetland Characterization, Wetland Damage Assessment, Wetland Permitting, and Environmental Project Management. He has secured mitigation contracts from approved Wetland Mitigation Banks, which offset wetland impacts because of wetland permits that are issued by the U.S. Army Corps of Engineers and the Department of Natural Resources Coastal Management Division. Software & Training: Mr. Guidry completed the ASTM Phase I Environmental Site Assessment Certification Program in 1997 and a refresher course in 2008. Mr. Guidry completed the USACE Wetland Delineation Certification Program in 1996. He has also taken the FHWA-NHI Course No. 142005- "NEPA and Transportation Decision Making."				
O4/15-04/18 Coach Williams Boulevard Extension (Calcasieu Parish, LA): Mr. Guidry's responsibilities included overal environmental project management, QA/QC of collected wetland delineation data, report preparation, and permit agent. Permits acquired include securing USACE Jurisdictional Determination and USACE Permits for jurisdictional wetland and water impacts.					n, and permit
02/15-05/17 LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA): Mr. Guidry's responsibilities included overall environmental project management and Permit Agent for Fenstermaker's \$11.4 million engineering and consulting contract with Fluor. Permits acquired include securing railroad, State Highway, and Parish Road Crossing Permits.					
04/12-10/12	directed the field w	etland delineat	ion, re	72 to East of Hair Creek Bridge EA (LaSalle Parish, LA eport production, data organization and processing, and wetland assessment under NEPA standards.	A) Mr. Guidry and boundary

01/09-09/09	S.P. No. 700-55-0122: LADOTD LA 311 Environmental Assessment & Line & Grade Study (Terrebonne, LA): Mr. Guidry's responsibilities included field wetland delineation, project management and wetland report production, data organization and processing, and wetland boundary map development.
06/14-11/15	Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385): LADOTD Permit No. 153351, 153352, 153353 (Calcasieu Parish, LA): Mr. Guidry was the environmental project manager for this proposed road improvement project (Calcasieu Point Development) for W Lincoln RD and LA385 located in the Coastal Zone of Louisiana, south of Lake Charles. Mr. Guidry's responsibilities included overall environmental project management, QA/QC of collected wetland delineation data, report preparation, and permit agent. Permits acquired include securing a US Army Corps of Engineers (USACE) Jurisdictional Determination, USACE Permit, and LDNR Office of Coastal Management (OCM) permit for jurisdictional wetland and water impacts.
07/18-03/20	S.P. No. H.009932 US 80 Widening: Vancil Rd to Well Rd EA (Ouachita Parish, LA): Mr. Guidry served as the Wetland Analysis Lead for this Environmental Assessment to improve the corridor by widening the existing roadway and implementing intersection improvement principles along a 1.4-mile portion of US 80. He has coordinated wetland and threatened and endangered species field delineations and analyzed impacts associated with the project. He developed a report for approval to LADOTD, in accordance with National Environmental Policy Act (NEPA), summarizing the findings of the analyses.
3/18-01/19	S.P. No. H.001271 Cane River Bridge Church Street EA (Natchitoches Parish, LA): Mr. Guidry served as the Wetland Analysis Lead for this Environmental Assessment for the replacement of the Cane River Bridge. He was responsible for all aspects of the wetland and threatened and endangered species analyses. He coordinated all field activities and developed a report summarizing the impacts of the project to wetlands and threatened and endangered species. Mr. Guidry also assisted with the preparation of the Phase I Environmental Site Assessment and USACE permits.
08/10-05/15	Kaliste Saloom Road Widening, Intersection Improvements, Bridge and CE&I (LA3073 to LA733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA): Fenstermaker was selected to perform engineering design services for the roadway construction of approximately 2 miles of a 5-lane concrete roadway, a 5-lane bridge over the Isaac Verot Coulee, and a multilane modern roundabout at the intersection of E. Broussard Road and Kaliste Saloom Road. Fenstermaker provided construction administration, including contractor payments and necessary change orders, and inspection services were provided daily. Additionally, Fenstermaker performed engineering design services for the relocation of all water and sewer utilities within a 2-mile section of Kaliste Saloom Road. This section of roadway was considered a densely populated, high traffic project site. Fenstermaker prepared construction drawings for three phases which consisted of widening the road to a multi-lane roadway section, utility relocation, and drainage outfalls. Mr. Guidry reviewed the wetland delineation report, permitting maps, and permit applications.

Firm employed by	C. H. Fenstermaker & Associa	tes, L.L.C.				
Name Diane H	ammonds, P.E., PTOE, RSP ₁	Years of relevant experience with this employer	3			
Title Senior En	ngineer	Years of relevant experience with other employer(s)	17			
Degree(s) / Years		B.S. / 2002 / Civil Engineering				
Active registration	n number / state / expiration date	PE.0040749 / LA / 9.30.2022; PTOE No. 4113/ 12.19.2022; RSF 03.14.2025	P ₁ #789 /			
Year registered	2016 Discipline	Civil Engineering				
Contract role(s) / l	brief description of responsibilities	Roadway/Traffic Engineering				
Experience dates	Experience and qualifications rele	vant to the proposed contract; i.e., "designed drainage", "designe	d girders",			
(mm/yy–mm/yy)		ience dates should cover the time specified in the applicable MPR nal Traffic Operations Engineer (PTOE) with 20 years of experience				
Diane has successful agency to agreemer LADOTD Traffic E	ally completed hundreds of successful and the final product is an asset to the Engineering Process and Report Trainin	studies, roundabout analysis, and design as well as permit reviews and raffic & transportation projects. Her unique skills bring both the client projects she is involved in. Software & Training: She has successfully g as well as numerous others in her career including, but not limited to imTraffic, HCS, VISTRO, SIDRA, CRASH 1, CRASH 3 and Microstat	and reviewing completed the HCS, Synchro			
02/19-Present	Farm Road Multi-Bridge Replacen	nent Project (Calcasieu Parish, LA): Fenstermaker was contracted by	by Calcasieu			
		onal engineering services related to the replacement of two (2) bridges loc				
		ffic engineering services, including the preparation of temporary traffic				
11/19-04/20	coordination and construction adminis	rencro, LA): Fenstermaker was contracted to provide surveying, detration and inspection. The project was located along several different road ordination with LADOTD and reviewed plans and documentation for apparence.	adways within			
08/19-Present	S.P. No. H.002297 LA 37 (Sullivan	Road to Liberty Road) (East Baton Rouge Parish): Ms. Hammonds	s is currently			
	serving as the Lead Traffic Engineer and is responsible for managing and reviewing all submittals by the traffic sub- consultant. Fenstermaker is serving as the prime consultant for this Stage 0 feasibility study and environmental inventory. Ms. Hammonds ensures quality control and is assisting in the development of the Stage 0 Feasibility Study, Environmental Inventory, and conceptual plans.					
08/19-Present	S.P. No. H.009932 US 80 Widening:	Vancil Rd to Well Rd EA (Ouachita Parish): Ms. Hammonds is serv	ring as a traffic			
	engineer for this Environmental Asse intersection improvement principles a alternatives capacity analysis reports,	ssment to improve the corridor by widening the existing roadway and long a 1.4-mile portion of US 80. She has assisted in the existing/no-builwhich have been approved by LADOTD. She analyzed project impacts by d grade study, cost estimates, and conceptual plans.	implementing ild, safety, and			
08/19-Present		ern Roundabouts (Lafayette, LA): Fenstermaker is responsible for a many conceptual roundabout locations throughout Lafayette Parish for				

	Metropolitan Planning Organization. Ms. Hammonds is serving as the Transportation Engineer, and she is responsible for developing the roundabout reports and analyses.
05/18-8/19	Lakeshore Drive Mixed Use Development Traffic Impact Study (Slidell, LA): Ms. Hammonds served as the Project Manager, Engineer of Record, and Analyst for a ± 1,083-acre mixed use development which at full buildout will contain residential houses, a school, and small commercial retail. The study included 2 interstate interchanges with state highways as well as a 1.7-mile segment of Parish owned roadway including 4 roundabout evaluations and a J-turn corridor. She performed approval coordination with both the LADOTD and St. Tammany Parish.
01/18-08/19	Hayden Roundabout Interchange Modification Report (Hayden, AL): As a result of the statewide Wrong Way Ramp Study, the Interchange of I-65 and Al-160 was further evaluated for improvements. Ms. Hammonds served as the Technical Director and Lead Analyst in the analysis and report documentation to modify the interchange ramps to roundabouts as well as 2 adjacent intersections. In addition, Ms. Hammonds provided Design Assistance for the plans to modify the interchange and adjacent intersections.
08/19-Present	LA-93 (Westgate Road) at Eraste Landry Road (Scott, LA): Ms. Hammonds served as the Technical Lead, Analyst and Design Engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction which resulted in an adjacent roadway closure. Ms. Hammonds prepared the volume forecasting and capacity analysis as well as report documentation, and signal design. The approval coordination included the LADOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
05/20-Present	Perrin Ferry Road Improvements (Livingston Parish): Ms. Hammonds is serving as the Project Manager and Technical Lead for the design of approximately 850-ft. of roadway. The project will raise the elevation to provide ingress and egress for the residents along the roadway during large rain events. Ms. Hammonds is coordinating the survey, environmental study and permitting, as well as the Hydraulics & Hydrology Study for this project and associated roadway design.
05/05-06/19	River Chase/Nor Du Lac (Covington, LA): Ms. Hammonds served as the Project Manager, Technical Director and Analyst for the traffic impact study of the 2 million square feet of retail/residential/office space located in Covington, Louisiana. Her detailed analysis included conversion of an existing rest area into an interstate interchange with I-12 as well as the LA-21 at I-12 interchange, the LA-21 corridor and other surrounding roadways. Ms. Hammonds created a regional Synchro analysis for the Tchefuncte River Region which included over 30 intersections, both proposed and existing. In addition to the study she designed 9 traffic signals for both the upgrading of existing locations and new installations
03/20-02/22	Apollo Rd (LA 93) Extension to Dulles Drive (Lafayette Parish, LA): Fenstermaker was selected to provide engineering services to the City of Scott to extend Apollo Road to Dulles Drive. This \$14 million dollar construction project included two miles of four-lane boulevard and eight-foot sidewalks to accommodate both bicyclists and pedestrians. The new roadway intersected LA 90 and LA 93, which were designed for a bow-tie intersection and a roundabout, respectively. Ms. Hammonds assisted with the development of the roundabout design, median opening review, signage and striping plans.

Firm employed by	C. H. Fensterma	ker & Assoc	riates, L.L.C.			
Name Luke H	ebert, P.E., CFM		Years of relevant experience with this employer	18		
Title Director	r, Engineer		Years of relevant experience with other employer(s)	1		
Degree(s) / Years	B.S. / 2003 / Civil Engineering					
Active registration	number / state / expiratio	n date	PE.0034715 / LA / 9.30.2023			
Year registered	2009	Discipline	Civil Engineering			
Contract role(s) / brief description of responsibilities Roadway Design						
Experience dates (mm/yy-mm/yy)	intersection", etc. Expe	erience dates s	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", should cover the time specified in the applicable MPR(s). ars of experience in engineering design, planning, and project managemen			
by the Mayor of C developments. Sin them through plan Services to the C USACE/DOTD, U Dept. of Health. In	surface and sub-surface drainage systems, water and sewer distribution system and water and sewer treatment. In 2013 Mr. Hebert was appointed by the Mayor of Carencro as the engineer for the City. One of his main focuses is working with developers on new commercial and residential developments. Since 2013 Mr. Hebert has been involved with over 20 new developments located within the City of Carencro and has managed them through planning, construction, and final acceptance. He has also provided Application Preparation, Program Management and Design Services to the City for Community Development Block Grants (CDBG), Facility Planning & Control (FP&C)—Capital Outlay, FEMA, USACE/DOTD, U.S. Dept. of Agriculture (USDA) Loan, Office of Community Development—Community Water Enrichment Fund, and Louisiana Dept. of Health. In total, Mr. Hebert has assisted the City with the acquisition and management of nearly \$18 Million in Federal and State project funding and lead the City to a FEMA Community Rating System Class 7. SP No. H.010620: US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA):					
	Roadway Design Engin a portion of US 90 to a frontage road system, of BNSF railroad facility, and frontage roads. In sequencing of constru- contractor. Mr. Hebert	neer directly reasonstruction of and construction of this role, he action, geome was also response.	ader the Design-Build Contractor, James Construction Group, Mr. Hebert we esponsible for the design of all roadway improvements associated with the use trolled access facility to also include improvements to the existing east and for a new six-lane US 90 overpass structure over both Albertson Parkway and ation of all associated US 90 mainline ramps needed to connect these overpasts directly designed all horizontal and vertical roadway alignments, typic extric detailing, cross sections, erosion control, and tabulation of quantitionsible for the layout of Mechanically Stabilized Earth Walls (MSEW), concrovements within existing ROW.	pgrading of westbound the existing is structures al sections, ies for the		
03/11-10/16	(LA3073 to LA733) (A 1,500-ft. southwest of includes a multi-lane m	Amb. Caffery E. Broussard nodern rounda	Kaliste Saloom Road Widening, Intersection Improvements, Bridge to E. Broussard Rd) (Lafayette Parish, LA): The project commences appl Rd (LA Hwy 733) and terminates near Ambassador Caffery Pkwy (LA bout. Mr. Hebert served as an engineer on this project and assisted with the ner roadway related design and waterline layout and design.	proximately 3073) and		

03/15-11/16	Coach Williams Blvd. Extension (Calcasieu Parish, LA): Mr. Hebert assisted with quality control of the preliminary and final design plans prior to moving forward with advertisement. This project consists of the design of a \$18.4 million – 3-mile roadway extension of Coach Williams Blvd to connect to Houston River Rd (LA 379). The new roadway includes a two-lane open ditch typical section with a roundabout, railroad crossing, Sabine River Authority Canal crossing, and will traverse through multiple wetland areas and will likely traverse over abandoned borrow pits. Fenstermaker is the Prime on this project and is responsible for the environmental assessments prior to design, drainage design, pavement design, and the
03/13 - 05/19	geometrics of the road. And diena Parional Airmont Access Bood (Thomis Parioh I A): Mr. Habert is suggested as the Pariot Manager.
03/13 - 03/19	Acadiana Regional Airport Access Road (Iberia Parish, LA): Mr. Hebert is currently serving as the Project Manager overseeing roadway and drainage design. Fenstermaker was responsible for designing a 2-lane roadway that will connect the LA 3212 and LA 675 with room for a future 4-lane roadway. Fenstermaker is also responsible for bid and contract administration, construction engineering and inspection services. Additionally, Fenstermaker assisted the city in obtaining capital outlay funding for this project.
01/05-Present	East Pont des Mouton, Phase II Roadway Widening (Lafayette Parish, LA): Mr. Hebert was the Lead Design Engineer for roadway widening improvements of East Pont des Mouton, Phase II commencing at the Interstate 49 for Lafayette Consolidated Government. This project entailed the widening of a 2-lane asphalt road into a 5-lane, concrete urban arterial road. Mr. Hebert was responsible for all horizontal and vertical alignments, typical sections, utility relocation, geometric detailing, intersection design, drainage design, sequencing of construction, quantity calculations, and the production of plans and specifications. Mr. Hebert also acted as the Lead Construction Engineer.
02/10-04/14	South Dearborne Rd Bridge Replacement over Indian Bayou (Lafayette Parish, LA): Fenstermaker, under contract with LCG, provided all engineering and land surveying required to perform topographic surveys, hydraulic studies, drainage improvements, wetland delineation, and prepared the preliminary and final roadway and bridge plans. This project included the replacement of an 18-ft wide x 100-ft long timber bridge over Indian Bayou. Mr. Hebert provided bridge design services.
06/13 - 10/16	Nelson Road and Ham Reid Road Roundabout & Design (Calcasieu Parish, LA): Calcasieu Parish Police Jury selected Fenstermaker to perform engineering design services for the construction of a roundabout at the intersection of Nelson Road and Ham Reid Road. Mr. Hebert was responsible for QA/QC of preliminary plans and the waterline layout.
03/16-09/17	Apollo Rd (LA 93) Extension to Dulles Drive (Lafayette Parish, LA): Fenstermaker was selected to provide engineering services to the City of Scott to extend Apollo Rd to Dulles. This \$15 million construction project includes 2.2 miles of a four-lane boulevard and 6-ft. sidewalks to accommodate both bicyclist and pedestrians. The new roadway intersects LA 90 and LA 93, which were designed for a bow-tie intersection and roundabout, respectively. Mr. Hebert was responsible for quality control of the final design plans prior to advertisement
12/15 - 01/17	LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA): Mr. Hebert served as a Project Engineer for Fenstermaker's \$11.4 million engineering and consulting contract with Fluor. Fenstermaker was responsible for the engineering design of the 2.4-mile heavy haul route that was utilized to transport the oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Mr. Hebert was directly responsible for design of intersection improvements at the John Stine/Sampson, Houston River Road /Beglis, and Sulphur/Sampson intersections.

Firm employed b		tes, L.L.C.		
	Hornsby, M.S., P.E., CFM	Years of relevant experience with this employer	16	
	r, Engineer	Years of relevant experience with other employer(s)	2	
Degree(s) / Years	s / Specialization	B.S. / 2005 / Civil Engineering	- 1	
		M.S. / 2007 / Hydraulics and Environmental Engineering		
Active registration number / state / expiration date PE.0036717 / LA / 3.31.2024				
Year registered	2011 Discipline	Civil Engineering		
Contract role(s) /	brief description of responsibilities	Hydraulic Analysis and Design		
Experience dates (mm/yy–mm/yy)	intersection", etc. Experience dates	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders' should cover the time specified in the applicable MPR(s). with 18 years of engineering, project management, and quality control experi		
coastal and storm whas developed thromal Texas, and Florida experience have maincluding Calcasie instrumental in generate of hydrolog LADOTD HYDRA manager. 05/13 - 08/16	sater management for both the public and pringly the successful completion of numerous reaches. She has also worked closely with the Lande Ms. Hornsby a qualified quality control in Parish Police Jury, Lafayette Consolidaterating the current quality control process ic and hydraulic software and applications in WIN Software, Danish Hydraulic Institute S.P. No. H.010620: US 90 (I-49 Sout Hornsby was the lead quality controller elements of this project were in conform well as other design elements for both HYDRWIN software as well as the US.		and her expertise and in Louisiana is expertise and ews for agencies s. Hornsby was well versed in TUE, HEC-FIA tified floodplains, LA): Ms. drainage design ssumptions, as e of LADOTD	
01/10 - 12/14	Tech, Fenstermaker was responsible for that runs from Bush, Louisiana, to Inte Transportation Infrastructure Model for hydraulic study. She completed the H&Ms. Hornsby also analyzed the wetland	rironmental Impact Statement (EIS) (St. Tammany Parish, LA): As a sub-control the completion of a 3rd party Environmental Impact Study (EIS) for a proposed 4 restate 12. Initiated by the LADOTD, this corridor improvement project is part of a Economic Development (TIMED) Program. Ms. Hornsby led the project's 1 H modeling, which was used to size the channel crossings along the four alternation impacts from each alternative using the 2D H&H software MIKE Flood.	4-lane highway f the Louisiana nydrologic and ve alignments.	
03/19-05/19	replacement of two (2) timber bridges undeveloped area and is currently a nar laterals (LATL5A and LATL5) and are	Alcasieu Parish, LA): Fenstermaker is providing professional engineering services located on Farm Rd. between LA 397 and Manchester Road. Farm Road transverse gravel street with open ditches on both sides. The bridges cross Calcasieu I spaced approximately a quarter mile apart. Both existing bridges have a maximu. Hornsby performed the hydrologic and hydraulic analysis, including scour analysis.	averses a rural Parish drainage m weight limit	

03/18-07/19	Rossignol Road Bridge Replacement (Calcasieu Parish, LA): Calcasieu Parish tasked Fenstermaker with providing professional engineering services to replace the bridge located on Rossignol Road. Fenstermaker utilized LaDOTD drainage design standards for bridge structures, as well as their familiarity with HEC-RAS and HEC-HMS software to analyze the effect of the proposed bridge structure, including any backwater effects. For this project, Fenstermaker analyzed drainage requirements by modeling the effect of the design storm on the surrounding topography, assessed any effects from the proposed bridge design on the water surface profile, provided recommendations on bridge deck height and scour potential, and designed drainage improvements and ditch stabilization required for related roadway work. Ms. Hornsby provided drainage design, H&H modeling, and scour analysis.
09/13 - 01/19	LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA): Ms. Hornsby was the Deputy Project Manager and Design Engineer on the Sasol Heavy Haul Route. She was responsible for the management of various aspects of the project including the environmental permits, right-of-way, utility relocation, design, contracting, construction administration, and inspection services. In addition, she was responsible for various design elements along the project including intersection improvements and side street design. Ms. Hornsby also performed quality reviews on the hydraulic design of the project ensuring that it followed LADOTD Hydraulics Manual.
04/15-Present	Coach Williams Drive Extension & Roundabout (Calcasieu Parish, LA): Ms. Hornsby was the lead quality control reviewer on this \$18.4 million roadway project. She followed all project quality assurance procedures in this review process. As part of the project, she reviewed the 2D Hydraulic Model (MIKE Flood) that was setup to determine wetland impacts, the hydraulic design (HRYDWIN) of all cross drains, inlet spacing, ditches, subsurface drainage, and outfall channels. She ensured all design elements followed Calcasieu Parish, Sabine River Authority, and LADOTD hydraulic guidelines. Ensuring the design elements at the SRA canal met the standards of the permit including considerations for seepage and turbidity, Ms. Hornsby worked with the lead designer and modeler to ensure a quality design was developed that met the requirements of the permit. This included multiple iterations of review, document tracking, and compliance verification.
10/18 - 09/19	Ham Reid Road Extension (Calcasieu Parish, LA): As drainage quality control manager, Ms. Hornsby performed an independent technical review on the inlet spacing and ditch design completed in LADOTD HYDRWIN software, and the impact analysis and outfall channel design completed in HEC-HMS and HEC-RAS. She also was a contributor in the overall layout, design, and implementation of the low impact development elements that included bioswales and detention areas. She ensured all drainage design elements were in accordance with Calcasieu Parish, LADOTD, and the gravity drainage district.
07/10-Present	LADOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge and CE&I (LA3073 to LA733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA): Ms. Hornsby was the drainage quality manager on this project. She reviewed the no-rise analysis for the bridge design which included a pre-post analysis of the bridge and channel armoring. For this project HEC-HMS and HEC-RAS were utilized. She also ensured that the drainage design followed Lafayette Consolidated Government and LADOTD Hydraulic standards.
08/18-Present	S.P. No. H.006459 Roundabout at Churchpoint/Roddy Road (Ascension Parish, LA): Ms. Hornsby was the independent technical reviewer of the drainage design for the roundabout. The project was reviewed following Fenstermaker's quality control processes. She reviewed the design ensuring LADOTD design standards were met, modeling and design parameters were accurate, and the drainage design was constructible.

Firm employed		Associates, 1	L.L.C.				
Name Bradfo	ord Millett, PLS, EI		Years of relevant experience with this employer	9			
Title Surveyo	or		Years of relevant experience with other employer(s)	0			
Degree(s) / Year	rs / Specialization	B.S	S. / 2014 / Civil Engineering	-			
Active registrati	on number / state / expiration of	date PLS	S.5245 / LA / 3.31.2023 EI.32848 / LA / 9.30.22				
Year registered	2020 Discip		fessional Land Surveyor				
Contract role(s)	/ brief description of responsib		fessional Land Surveyor				
Experience date			to the proposed contract; i.e., "designed drainage", "design				
(mm/yy-mm/yy) "designed intersection", etc	c. Experienc	e dates should cover the time specified in the applicable MPR	.(s).			
			s Advanced Technology Group, and has 8 years of surveying, ma	_			
			of field crew coordination, data collection and processing, layout				
	• 1	•	velopment and Planning subdivision platting process, client re	elations, utility			
·	st estimating, scoping, schedulin	ng, planning a	and other components				
associated with s	surveying services.						
05/13-02/20	,	,	Albertson Pkwy to Ambassador Caffery Design-Build (Lafayett	, ,			
		10	of a portion of US 90 to a six-lane controlled access facility t				
			bound frontage road system, construction of a new six-lane US 90 over				
	1		ng Burlington Northern Santa Fe Railway facility, and construction of				
	_		t these overpass structures and frontage roads. Ms. Millett was	responsible for			
10/18-05/19	reviewing all LADOTD right		Calcasieu Parish, LA): Fenstermaker was contracted by Calcasieu				
10/10-03/19		-	services for the replacement of two bridges located on Farm Road.				
	1		coordination, boundary and right-of-way surveys, parcel revisions				
	• •	•	evey data, and coordinating with the abstractor.	<i>,</i> , c onstr uction			
04/16-09/18	• • •		Road Reconstruction (Lafayette, LA): Fenstermaker was contraction	cted			
0 1/10 05/10			provide the design of the replacement of Lebesque Bridge and L				
	1 2		ead Surveyor, providing survey crew coordination, utility coordination				
	surveys and right-of-way plats.						
06/20-ongoing	IDIQ Contract for Louisian	a Watershed	Initiative (LWI) Modeling Contract – Region No. 6: Fenstermak	er is contracted			
			project that will manage the future flood risk in the State of Lo				
			esponsible for data collection, data gap analysis, surveying, drone im				
			ve, usable, and manageable H&H models for Region 6. Through				
	Fenstermaker is identifying, or	collecting, and	d analyzing available data, and stakeholder and agency coordination	ı. Fenstermaker			

	has acquired channel surveys and hydraulic structure data from existing models, studies, engineering drawings, as-built drawings, and through coordination with local, regional, state, and federal agencies. Fenstermaker is responsible for converting all acquired data to the project datum and confirming the validity of information compared to current field conditions to successfully complete a data gap analysis. Ms. Millett serves as Survey Project Manager on this project, providing field crew coordination, reviewing existing survey data, QA/QC of collected survey data, and is surveyor of record.
05/19-03/21	S.P. H.005967 Port of Lake Charles Rail at W. Sallier St., Calcasieu Parish, LA - Fenstermaker completed the topographic and boundary field surveys, established control, post-processed data, reviewed title reports, established property boundaries and mapped encumbrances for the approximately 0.75-mile Railroad Relocation for the Port of Lake Charles. LADOTD survey feature codes were utilized for this project, and LADOTD Right of Way maps along with COGOWIN legal descriptions were created. Ms. Millett served as the Project Manager for this project. She was responsible for leading the kickoff meeting, coordinating with field survey crews, the abstractor and LADOTD, providing QA/QC of survey data, legal descriptions, and processing survey data.
05/14-11/17	LADOTD Permit No. 153351,153352,153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements, Calcasieu Parish, LA - Fenstermaker was responsible for designing road improvements at various locations to support anticipated construction traffic associated with the expansion of the Lake Charles LNG, G2X, and Magnolia Facilities. Topographic and boundary surveys associated with the planned improvements, right of way maps, as well as coordinating and managing utility relocations were performed by Fenstermaker. Ms. Millett prepared survey request, coordinated survey crews, reviewed and processed survey data, prepared right of way maps, and coordinated with utilitiy companies.
06/12-ongoing	S.P. No. H.006459 Roundabout at Churchpoint/Roddy Road, Ascension Parish, LA - Fenstermaker completed a roundabout study at Churchpoint Road and Roddy Rd. The study was completed in compliance with "EDSM VI.1.1.5, Roundabout Study and Approval." Following LADOTD's approval, Fenstermaker began final design of the roundabout. Safety data was collected for a three-year period and analyzed for correctible crashes at the intersection. Ms. Millett coordinated with survey crews, processed data, completed preliminary boundary layouts, and developed right of way maps for this intersection.
09/12-ongoing	S.P. No. H.012792 LA 675 at Airport Road Roundabout, Iberia Parish, LA - This project includes the design of a new roundabout at the intersection of LA 675, US 90 Frontage Road, and the Acadiana Regional Airport Access Road. Ms. Millett is responsible for the topographic and boundary surveys, as well as the development and review of right of way maps.
11/08-ongoing	LADOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge, and CE&I (LA 3073 to LA 733) (Amb. Caffery to E. Broussard Rd) Lafayette, LA - Fenstermaker was responsible for the widening of approximately two miles of Kaliste Saloom Road, a highly congested major arterial roadway located in the center of the City of Lafayette. The project was then split into three phases to include drainage outfall construction, utility relocations, and roadway construction. Fenstermaker is the direct responsible charge of all design components and construction management for improvements. Ms. Millett assisted with topographic and boundary surveying, utility relocation, right of way plats, drainage design, as-built surveys, drainage design, signand striping layout, and coordination of survey crews in the field for Phases 3A and 3B.

Firm en	Firm employed by Bridge Diagnostics, Inc. (BDI)					
Name	Shane B	Boone, PHD			Years of relevant experience with this employer	7
Title	Vice Pre	sident – Nondestructi	ve Evaluation		Years of relevant experience with other employer(s)	13
Degree	(s) / Years	/ Specialization		MS	D / 2008 / Civil Engineering / Utah State University / 2005 / Structural Engineering / University of Tennessee / 2002 / Civil Engineering / University of Tennessee	
Active	registratio	n number / state / exp	iration date	N/A		
Year re	gistered	N/A	Discipline	N/A		
Contrac	ct role(s) /	brief description of re	sponsibilities	Non	destructive Evaluation, QA/QC and Subject Matter Expert	
Experie dates (r mm/yy)	nm/yy–				to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable MPR(
07/16-F	Dr. Boone has spent more than 20 years in the government, academic, and private sectors of specialized infrastructure inspection and monitoring. He specializes in the research, development and application of nondestructive testing & evaluation technologies and monitoring for civil infrastructure. Previously, Dr. I managed NDE programs at the Federal Highway Administration (FHWA) and Oak Ridge National Labor He serves as the chair of the American Society for Nondestructive Testing's Structural Materials Technologies and sits on TRB's Field Testing and NDE of Transportation Structures committee. He is a certified ASNT Level II inspector.					of Dr. Boone aboratory. nnology
01/17 -	Present Retainer Contract for Testing of Unknown Foundations Statewide (DOTD Contract No. 4400009224) – Dr. Boone is the Subject Matter Expert (SME) for the NDE to determine the unknown foundations of up to 1,900 bridges in Louisiana. The project utilizes multiple methods of NDE including ultraseismic testing, paralle seismic survey, sonic echo/impulse response, and guided wave. To date, thousands of piles have been tested to determine the embedded depth for subsequent NBIS 113 scour evaluation and reporting. BDI has assisted DOTD in FHWA reporting of these items by uploading all reports into AssetWise.					up to ng, parallel tested to
01/19 -	Present	 Dr. Boone is the Stesting of bridge december 	SME for statew cks, concrete su	ide Ni ubstru	aluation of Structures Statewide (DOTD Contract No. 440 DE of structures for DOTD under this contract. Scope items is ctures, steel elements such as welds and pin and hanger assert and other highway transportation infrastructure. Dr. Boone a	include nblies,

	DOTD with identifying proper technologies for application and best methods for analysis and reporting of findings into DOTD's AssetWise.
11/19 – Present	NDE and Remote Inspection of I-10 over the Bonnet Carre Spillway, LA – BDI is performing NDE of the bridge deck utilizing ground penetrating radar (GPR), deck acoustic response (SounDAR), infrared thermography (IR), and high-resolution imaging (HRI) to determine the deck integrity and NBIS/NBE reporting quantities. In addition, BDI is performing the NBIS inspection of the substructure utilizing remote inspection techniques with drones and other technology to report to FHWA. Dr. Boone is the SME for this inspection.
08/19 – 07/20	NDE of City Park Lake Bridge LA – Dr. Boone was the principal investigator for NDE of the City Park Lake Bridge in Baton Rouge, LA. NDE technologies included ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), high-resolution video (HRV). Remote inspection was performed on the substructure utilizing visual inspection and IR.
08/19 – 12/19	NDE of Vicksburg Bridge, LA – Dr. Boone was the principal investigator for NDE of the Vicksburg Bridge carrying I-20 over the Mississippi River near Vicksburg, MS. NDE technologies included ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), high-resolution video (HRV).
11/19 – 02/20	Ultrasonic Testing of the US1 Simmesport Bridge, LA – BDI performed inspection of 4 pins of the US1 bridge that carries US1 over the Atchafalaya River near Simmesport, LA. BDI utilized ASNT certified inspectors to perform ultrasonic testing (UT) and magnetic particle testing (MT) to determine their integrity. Dr. Boone was the SME for this inspection.
08/19 – 12/21	US Army Corps Evaluation of Advanced Weld Inspection Methods – As USACE's ongoing want to improve inspection techniques, BDI was awarded a Task Order under its IDIQ to identify and determine best practices for steel weld inspection utilizing advanced ultrasonic testing (UT) methods such as phased array ultrasonic testing (PAUT) and total focus method / full matrix capture (TFM/FMC). These advanced methods improve the reliability and repeatability of weld inspection and flaw sizing for fitness for service level analysis. Dr. Boone was the subject matter expert for this project and helped develop the testing means and methods that were performed on eight lab samples and four comprehensive in-field bridge weld inspections. Based on these findings, USACE expanded the scope to scan further areas of concern on one of the bridges.

Firm er	mployed by	y Bridge Diagnost	ics, Inc. (BDI)				
Name	Brett Co	ommander, PE			Years of relevant experience with this employer	32	
Title	Vice Pre	sident / Principal Eng	ineer		Years of relevant experience with other employer(s)	1	
Degree	(s) / Years	/ Specialization			/ 1989 / Structural Engineering / University of Colorado 1986 / Civil Engineering / University of Colorado		
Active	registratio	n number / state / exp	iration date	Prof	essional Engineer: 35864 / LA / 3/31/2023		
Year re	egistered	2010	Discipline	Civi	l Engineer		
Contrac	ct role(s)/	brief description of re	sponsibilities	QA/	QC, Principal Engineer		
Experied dates (r. mm/yy)	mm/yy-				to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable MPR		
10/89-F	Present	Mr. Commander has more than 30 years of experience with testing, monitoring, and evaluating measured structural responses on over 1,000 structures. He has performed/oversaw complete structural analyses and load ratings on over 500 highway and railway bridges using a variety of design codes such as AASHTO and AREMA, and many state-specific codes including Louisiana specifications. Mr. Commander also has designed/oversaw capacity testing projects of concrete and steel structures using various NDE techniques as well as implemented hundreds of structural monitoring systems.					
11/12 -	US-90 Bayou Ramos Bridge Load Testing and Monitoring, LA – Due to unexpected cracking in PS concrete AASHTO beams, BDI performed load tests and load ratings to determine cause and effect of cracks in continuous multi-span PS/C girders. Load ratings were completed according to DOTD specifications. After the completion of the initial evaluation, monitoring systems were installed on the structure to monitor the state of two sections of structure. Structural Health Monitoring is still ongoing. As technical advisor/principal engineer, Mr. Commander oversaw live-load and thermal load monitoring that was performed during and after repairs to evaluate the performance of retrofit.						
11/04 – 11/11 –	- 12/04 - Present	determine if a 500-t that helps DOTD ca Health Monitoring	on load could on the period on the period of the period on the period of	eross t -motic . Over	Rating, and Monitoring, LA –BDI used its Integrated Appr he bridge safely. BDI then installed an event-based monitoring on data, strains induced by heavy loads, and photos of heavy multiple contracts, Mr. Commander was the principal-in-character of the such as testing program oversight, structurated	ng system load. arge on this	

	load rating of structure for atypical load configurations, on-site data interpretation, report creation and submittal, and providing recommendations for future crossings.
07/21 – Present	NDE of the Whiskey Bay and Piot Channel Bridge Decks, LA – NDE of 3.5M sf of bridge deck on the structure carrying I-10 over the Atchafalaya Basin between Baton Rouge and Lafayette, LA. Testing included IR/HRI, CWSF GPR and SounDAR from BDI's mobile NDE testing van. IR/HRI bridge deck data was also collected via drone. BDI also performed substructure inspection to satisfy LADOTD's NBI requirements of the structure with IR/HRI via drone. The data will be used to quantify and locate areas for repair and preservation, and to report NBE and NBI data to FHWA. Mr. Commander is providing QA/QC and PE Review.
07/19 – 01/20	St. Claude Lift Bridge Balance and Operation Testing, LA – Mr. Commander was project principal engineer responsible for counterweight/span balance and friction calculations as well as structural performance evaluation on a double heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed during investigation of a bearing failure on the span to counterweight link including strain gage testing on the link frame as well as on counterweight balance procedures.
06/14 – Present	Phinney Avenue Bridge Load Testing, Rating and NDE, WA – As part of BDI's SDOT On-Call, BDI was contracted by Seattle DOT to perform diagnostic load tests and structural reinforcement investigation on the Phinney Ave bridge in Seattle, WA. Instrumentation, load tests, and reinforcement investigation were performed with the overall goal of these tests was to better understand the structures' load distribution, reinforcement details, and in turn provide refined load ratings. Mr. Commander acted as the principal engineer and oversaw testing plan development, field-verified model calibration, load ratings performed according to SDOT/WSDOT specifications, and reporting.
08/18 - 12/20	Live Load Testing and Field-Verified Load Rating of 16 Bridges, VA – As part of BDI's VDOT On-Call, BDI provided load testing and field-verified load rating of 16 structures in the Fredericksburg and Richmond districts of VDOT. BDI was responsible for the design of load testing requirements, development of instrumentation plans, execution of field work and load testing, data analysis, finite element (FE) model creation and calibration, and eventual load rating per VDOT and AASHTO requirements. Mr. Commander acted as principal engineer and subject matter expert for this project and responsibilities included overseeing testing program development.

Firm en	Firm employed by Bridge Diagnostics, Inc. (BDI)								
Name	Jesse Sip	ple, PHD, PE	-		Years of relevant experience with this employer	8			
Title	Testing, I Manager	Monitoring, and Eng	ineering Progra	m	Years of relevant experience with other employer(s)	9			
Degree(/ Specialization		PHD	, Civil Engineering, Tufts University, 2013	•			
	. ,	•			Civil Engineering, University of New Hampshire, 2008				
				BS,	Civil Engineering, University of New Hampshire, 2007				
Active 1	registration	number / state / exp	iration date	#410	028 / Louisiana / 03/31/2023				
	gistered	2016	Discipline		l Engineer				
		orief description of re			ing, Monitoring, and Engineering Manager				
_	nce dates				to the proposed contract; i.e., "designed drainage", "designed				
	–mm/yy)				dates should cover the time specified in the applicable MPR(
01/14-P	resent	* *	•		ng, engineering, and on-going monitoring groups of BDI's Se				
					e from large SHM systems on signature structures, complex t				
		-	•	nd maintenance and support of in-service systems. In addition to managerial					
11/01 D		<u> </u>			uality control aspects of these projects.	1 1			
11/21-P	resent				ation, LA (Contract 4400010099) – BDI is preforming live-				
					uisiana, including seven culvert and three reinforced concrete				
					ting results for those structures. The process includes developed testing, and load rating each bridge. Load rating reports wi	_			
		-		_					
07/18-0	00/12	provided for each of the load tested structures. Dr. Sipple is an analysis engineer and reviewer for this project Collier County Bridge Load Testing, FL – BDI performed diagnostic load tests on the FDOT Bridge 03419							
07/10-0	77/10				in a residential area in Immokalee, Florida. The overall goal				
					re's transverse distribution, provide refined load ratings, and				
					re performed, and the collected structural responses were used				
					nodel (FEM). This field-verified FEM was then used to comp				
load ratings. Dr. Sipple acted as project manager for this project.									
06/18-0)3/19			_	and NDE, WA – BDI was contracted by SDOT to perform di	agnostic			
				ment investigation on the Phinney Ave bridge that spans over North 57th St in					
Seattle, WA. Instrumentation, load tests, and reinforcement investigation were performed with the overall									
		of these tests was to	better understa	and th	e structures' load distribution, reinforcement details, and in tu	ırn provide			
		refined load ratings	. Dr. Sipple act	ed as t	the project manager for this project.				

07/19–12/19	St. Claude Lift Bridge Balance and Operation Testing, LA – Dr. Sipple was the quality control manager for
	counterweight/span balance and friction calculations as well as structural performance evaluation on a double
	heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed
	during investigation of a bearing failure on the span to counterweight link.
08/18-12/20	Live Load Testing and Field-Verified Load Rating of 16 Bridges, VA – BDI provided load testing and field-
	verified load rating of 16 structures in the Fredericksburg and Richmond districts of VDOT. BDI was
	responsible for the design of load testing requirements, development of instrumentation plans, execution of field
	work and load testing, data analysis, finite element (FE) model creation and calibration, and eventual load rating
	per VDOT and AASHTO requirements. Dr. Sipple acted as quality control manager for this project.
04/18-10/19	Sunshine Truss Emergency Monitoring, LA - In 2018, the Sunshine Truss Bridge was struck by a crane barge,
	significantly damaging a bottom chord member. As part of the Modjeski and Masters response team, BDI
	installed a laser displacement sensor within 48 hours of the event to monitor the behavior of the damage
	member. Once a monitoring plan was developed and approved by the team, BDI installed strain gages along
	nearby chord members that were used to evaluate the state of the structure before, during and after the
	replacement of the damaged bottom chord member. Dr. Sipple acted as project manager responsible for
	monitoring plan development and project oversight.
02/20-12/20	LA507 Over I-20 ABC Span Move Monitoring, LA - During the replacement of this bridge, accelerated
	bridge construction was utilized where spans were cast nearby and moved into place during short outages. Dr.
	Sipple was a field/analysis engineer responsible for monitoring plan implementation, instrumentation,
	monitoring during span moves, on-site data interpretation, and data processing and reporting.
01/22-Present	Varina-Enon Bridge Structural Health Monitoring, VA – Virginia Department of Transportation contracted
	BDI to provide a comprehensive structural health monitoring (SHM) system on the Varina-Enon bridge. The
	project includes the design, installation, and operation of the SHM system. Dr. Sipple is a senior engineer
	contributing to system design, architecture, and installation support in his current capacity on this project.

Firm employed by Bridge Diagnostics, Inc. (BDI)								
Name	Charles	Young, PE			Years of relevant experience with this employer	4		
Title	Nondest	ructive Evaluation Pro	gram Manage	r	Years of relevant experience with other employer(s)	7		
Degree	(s) / Years	/ Specialization			/ 2017 / Structural Engineering / Drexel University 2012 / Architectural Engineering / Drexel University			
Active	registratio	n number / state / exp	ration date	Prof	essional Engineer: 42773 / LA / 3/31/2023			
Year re	gistered	2018	Discipline	Civi	l Engineer			
Contrac	ct role(s)/	brief description of re	sponsibilities	Non	destructive Evaluation Project Manager and Engineer			
Experie dates (n mm/yy)	nm/yy–				to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable MPR			
05/18-P	Present	Mr. Young has 11 years of experience in nondestructive evaluation and testing (NDE/NDT), and structural monitoring and testing. BDI, Mr. Young is responsible for project management, analysis, and field services related to NDT of civil infrastructure. He works closely with a multifaceted group of engineers and technicians to perform NDE on bridges, dams, culverts, pavements, and other civil infrastructures. Mr. Young is heavily involved in testing and instrumentation of existing structures using NDE methods (acoustic, ultrasonic, electromagnetic, and electrochemical), performing dynamic and digital signal processing and analysis, and numerical and finite element modelling of complex structures.						
05/18 -	- 12/21	Nondestructive Evaluation of Unknown Bridge Foundations, LA – This project aims at performing NDE of more than 500 bridges in the state of Louisiana to determine the unknown or undocumented depths of bridge foundation piles. A proofing step was performed on six bridges to estimate the depth of timber, concrete, and steel piles. Multiple BDI testing and analysis methods including Sonic Echo/Impulse Response (SE/IR), Ultraseismic (US), and Parallel Seismic Survey (PSS) were utilized. Mr. Young was the project manager.						
barge, significantly damaging a bo deployed a laser displacement sens was developed and approved by th evaluate the state of the structure b				sor to se tean efore,	ig, LA – In 2018, the Sunshine Truss Bridge was struck by a chord member. As part of the M&M response team, BDI quid monitor the behavior of the damage member. Once a monitor in, BDI installed strain gages on nearby chord members that very during and after the replacement of the damaged bottom choicion technician, and site supervisor for this project.	ckly ring plan were used to		

01/19 - Present	Bonnet Carre Spillway Inspection and Nondestructive Evaluation, LA – This project involves an NHI routine inspection of the Bonnet Carre Spillway Bridge and targeted nondestructive evaluation techniques at various critical portions of the structure. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young is the project engineer and lead bridge inspector for this project.
08/19 – 07/20	City Park Lake Bridge Inspection and Nondestructive Evaluation, LA –NHI routine inspection of the City Park Lake Bridge and targeted nondestructive evaluation. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Nondestructive evaluation included a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Also included in the nondestructive evaluation is Infrared Thermography of the superstructure and substructure of the bridge. Mr. Young was the project manager.
08/19-12-21	US Army Corps Evaluation of Advanced Weld Inspection Methods – As USACE's ongoing want to improve inspection techniques, BDI was awarded a Task Order under its IDIQ to identify and determine best practices for steel weld inspection utilizing advanced ultrasonic testing (UT) methods such as phased array ultrasonic testing (PAUT) and total focus method / full matrix capture (TFM/FMC). These advanced methods improve the reliability and repeatability of weld inspection and flaw sizing for fitness for service level analysis. Mr. Young helped develop the testing means and methods that were performed on eight lab samples and four comprehensive in-field bridge weld inspections. Based on these findings, USACE expanded the scope to scan further areas of concern on one of the bridges.
06/20-09/20	West Seattle High Bridge, WA – BDI was contracted by Seattle DOT to provide a nondestructive testing and structural health monitoring program to help evaluate performance of the structure during first phase of retrofitted internal post-tensioning. The monitoring program helped the Seattle DOT make decisions and resulted in the next phase of strengthening to open the bridge by 2022. Mr. Young acted as the Task Order Manager and Lead Field Engineer for this project.

Firm employed by Bridge Diagnostics, Inc. (BDI)							
Name	Brice Ca	arpenter, PE			Years of relevant experience with this employer	13	
Title	Senior E	ngineer / Engineering	Department L	ead	Years of relevant experience with other employer(s)	2	
Degree	(s) / Years	/ Specialization			/ 2009 / Civil Engineering / New Mexico State University 2007 / Structural Engineering / New Mexico State University	ý	
Active 1	registratio	n number / state / exp	iration date	Prof	essional Engineer: 39341 / LA / 3/31/2023		
Year re	gistered	2014	Discipline	Civi	l Engineer		
Contrac	ct role(s)/	brief description of re	sponsibilities	Seni	or Engineer / Engineering Department Lead		
Experie dates (n mm/yy)	nm/yy–				to the proposed contract; <i>i.e.</i> , "designed drainage", "designed dates should cover the time specified in the applicable MPR(
07/09-P	Present	During his tenure and more than 250 bridges tested and load rated using advanced techniques, Mr. Carpenter has become BDI's Engineering Lead responsible for testing plan oversight, data processing and investigation, structural analysis, load rating, and reporting. Mr. Carpenter has been involved with the testing, monitoring, and evaluation of hundreds of structures of various types (steel, reinforced concrete, prestressed concrete, in simple to complex geometry and configurations) using a variety of design codes such as AASHTO, AREMA, and many state-specific codes including Louisiana specifications. Mr. Carpenter also has years of experience in capacity testing of concrete and steel structures using various NDE techniques.					
11/12-P	Present	US-90 Bayou Ramos Bridge Load Testing & Monitoring, LA – Due to unexpected cracking in PS concrete beams, BDI performed load tests and load ratings to determine cause and effect of cracks in continuous PS/C girders. After the initial evaluation, monitoring systems were installed on the structure to monitor two sections of structure. Health Monitoring is still ongoing. As lead analysis engineer, Mr. Carpenter performed field-verified load ratings and acts as the project engineer for monitoring system maintenance and troubleshooting.					
Bonnet Carre Spillway Load Testing and Monitoring, LA – In 2004, BDI used its Integrated Approach t determine if a 500-ton load could cross the bridge safely. Based on provided configurations, BDI determine "superload" could cross with stresses below its serviceability limit. In 2011, BDI installed an event-based monitoring system that helps DOTD capture weigh-in-motion data, strains induced by heavy loads, and pho of heavy load. Mr. Carpenter performed superload load ratings and reporting for DOTD and currently acts a project engineer for monitoring support to DOTD.							

07/19–12/19	St. Claude Lift Bridge Balance and Operation Testing, LA – Project engineer and field/analysis engineer responsible for counterweight/span balance and friction calculations, and structural performance evaluation on a double heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed during investigation of a bearing failure on the span to counterweight link.
08/16-05/17	Live Load Testing of Eight Culverts and Testing, LA – BDI worked in coordination with LSU, LTRC, and DOTD to perform comprehensive diagnostic live-load tests that allowed these structures to be better evaluated based on induced live-load effects, observed distribution, and general fixity at the culvert walls. BDI manufactured the structural testing system used for this testing based on LSU's specifications and needs. Mr. Carpenter acted as a project and testing engineer on this project.
07/09-11/12	Load Testing and Rating of 35 Rhode Island Bridges, RI – BDI performed field testing on 35 bridges located throughout the state of Rhode Island. For all of the structures, BDI collected and reviewed the strain, displacement, and NDE (GPR) data and provided it directly to AECOM for evaluation. For select bridges, BDI also used the field data to calibrate finite element models and develop accurate load ratings using the AASHTO Manual of Bridge Evaluation. Mr. Carpenter acted as analysis and rating engineer responsible for data processing and review, structural analysis, load rating, and reporting.
11/20-06/21	Terminal 5 Bridge Load Testing and Rating, WA –Terminal 5 bridge is used by heavy truck traffic to and from the Port of Seattle, WA. As part of BDI's SDOT On-call, instrumentation and load tests were performed on PSC beam and steel girder spans (curved and straight) with the overall goal of to better understand the structures' load distribution and behavior and in turn provide refined load ratings. Mr. Carpenter acted as the lead analysis/rating engineer responsible for data processing, model calibration, and load ratings and reporting according to SDOT/WSDOT specifications.
05/15 - 10/15 02/18 - 08/18	Truss Monitoring on US 84 Over the Mississippi River, MS – During the pin replacements on the Natchez cantilever truss over the Mississippi River, BDI performed Structural Health Monitoring (SHM) on the critical truss members and temporary load path systems during pre, during, and post construction. Mr. Carpenter acted as project field and analysis engineer in charge field prep, field installation, data analysis and reporting.

Firm employed by		ental Services,	Inc.			
Name Kevin Guth, DrPH, CIH, PMP				Years of relevant experience with this employer	26	
Title Principal				Years of relevant experience with other employer(s)	3	
Degree(s) / Years	/ Specialization		Doct	or of Public Health (DrPH) 2020 - Chemical Risk		
				ssment/Toxicology University of South Florida		
				t er of Science in Public Health (MSPH) - 1996 Industrial L		
				Tulane University - School of Public Health and Tropical	Medicine	
Active registration	n number / state / exp	iration date		H Certification No. 10438 / 6/2024		
				E - Coatings, Level 1 23834 / 7/2024		
Year registered	2018/2013/2009	Discipline		fied Industrial Hygienist		
Contract role(s) /	brief description of re	esponsibilities		ronmental Project Manager (Certified Industrial Hygien	ist)	
				n will provide leadership and oversight of all aspects of the	_	
				onmental monitoring on the project. He will lead the environ		
				e areas that include project management, coordination, and p	roject	
			reporting. Kevin will provide quality assurance oversight of all			
T 1.		1:0: .: 1	environmental testing to ensure legally defensible data.			
Experience dates				to the proposed contract; <i>i.e.</i> , "designed drainage", "design		
(mm/yy-mm/yy) Relevant				dates should cover the time specified in the applicable MPR ged over 200 painting and industrial lead-based removal projections.		
Experience for			_	vorked on 23 separate LADOTD repainting and rehabilitation		
all projects	1 3			ransportation, US Army Corps of Engineers, and private rail		
reported				imental oversight, implementation, and development of lead		
reported				is SSPC C-5 certificate in July of 2021.	uoutenient	
	promis for secon street	9001 220 122 2020	.,	SSE S S S S S S S S S S S S S S S S S S		
Kevin is a recognized expert in Industrial Lead Based Removal from complex steel structures having been certified in New Orleans Civil Court testifying on proper containment methods necessary to prevent adverse environmental impact during industrial lead-based paint removal. Kevin has published several peer reviewe articles regarding lead exposures and ventilation flow rates that provide utility in the management of LADOT repainting projects. He is a regular contributor (writer) on SSPC's website Paint Square where he has discuss topics applicable to LADOTD jobs such as proper ventilation on paint removal projects and the utility of pre post job soil samples.						

4/19- On going	LADOTD No. H.009461, US 90 Atchafalaya River Bridge Rehabilitation
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
10/20-11/21	LADOTD No. H.011485, LA 336-1 – Bayou Teche Bridge Rehabilitation
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
2/18-8/19	LADOTD No. H.00946.6, Route I-10 Clean, Paint and Miscellaneous Repairs
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
12/17-8/18	LADOTD No.H.003263.6, I-20: Overpass Rehabilitation (Bossier City)
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
8/16-10/17	LADOTD No. H.011482, US 90 Huey P. Long Bridge Clean and Paint
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
12/15-6/17	LADOTD No. H.010636, US 90 Over Mississippi River Bridge (GNO2) Structural Repairs and Spot
	Painting
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
5/15-1/16	LADOTD No. H.009326, I-10 & 610: Bridge Deck Patching, Girder Painting & Misc. Repairs
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
7/14-10/17	LADOTD No. H.009943, US 190 Phase 2 – Cleaning, Painting & Repair
	Principal/Environmental Project Manager performing the same environmental scope as this RFP.
8/13-8/15	Mississippi Department of Transportation Contract No. MS-08-13, Natchez Vidalia Bridge, Natchez,
	Mississippi / NACE level certified bridge coating inspector. Performed a comprehensive coatings evaluation of
	the entire bridge to determine the condition of the existing coatings and recommended alternatives for coating
	rehabilitation of this major Mississippi River Bridge crossing to provide continued corrosion protection for the
	structure. Scope also included comprehensive sampling of the existing coating system for the presence of heavy
	metals.

Firm employed b		al Services, Ir	nc.				
Name Justin	Beitzel, MBA, PMP	,	7	Years of relevant experience with this employer	12		
Title Senior	Environmental Professiona	al	7	Years of relevant experience with other employer(s)	2		
Degree(s) / Year	s / Specialization	N	MBA /	2010 / McNeese State University	•		
		В	3S / 20	009 / Business / McNeese State University			
Active registration	on number / state / expirat	ion date S	SSPC (C-3 / C-5 Expires 7/2022			
				Level II Registration No. 46202 Expires 7/2023			
Year registered				line - Senior Tech (Environmental)			
Contract role(s)	brief description of response			will collect samples. He will also evaluate the protective co			
				al samples for determination analysis for heavy metals, pro	cedures for		
	T			ent, handling, disposal of waste.			
Experience dates	-			the proposed contract; i.e., "designed drainage", "design	•		
(mm/yy-mm/yy				ates should cover the time specified in the applicable MPR			
Relevant				working as an environmental monitor/ Professional Industrial			
Experience for				rojects. Justin has worked on 12 major LADOTD lead ren	noval		
all projects	bridge repainting proje	cts performing	g tne s	ame duties as requested by this RFQ since 2010.			
reported	Ha has also worked on	other Departm	monta	of Transportation, US Army Corps of Engineers, and priva	to railroad		
		-		or Transportation, OS Army Corps of Engineers, and priva	ite rannoau		
4/19- On going	repainting and rehabilitation projects. LADOTD No. H.009461, US 90 Atchafalaya River Bridge Rehabilitation						
4/17 On going				aint sampling for heavy metals analysis, proper procedures	for		
	treatment, handling, di	,	-	and sampling for nearly metals analysis, proper procedures	101		
10/20-11/21							
				aint sampling for heavy metals analysis, proper procedures	for		
	treatment, handling, di		_				
2/18-8/19	LADOTD No. H.0094	6.6, Route I-	-10 Cl	ean, Paint and Miscellaneous Repairs			
	aint sampling for heavy metals analysis, proper procedures	for					
	treatment, handling, di						
12/17-8/18		,	-	s Rehabilitation (Bossier City)			
				aint sampling for heavy metals analysis, proper procedures	for		
	treatment, handling, di						
8/16-10/17	LADOTD No. H.0114	82, US 90 Hu	ıey P.	Long Bridge Clean and Paint			

	On-site environmental monitor (includes paint sampling for heavy metals analysis, proper procedures for
	treatment, handling, disposal of wastes.)
12/15-6/17	LADOTD No. H.010636, US 90 Over Mississippi River Bridge (GNO2) Structural Repairs and Spot
	Painting
	On-site environmental monitor (includes paint sampling for heavy metals analysis, proper procedures for
	treatment, handling, disposal of wastes.)
5/15-1/16	LADOTD No. H.009326, I-10 & 610: Bridge Deck Patching, Girder Painting & Misc. Repairs
	On-site environmental monitor (includes paint sampling for heavy metals analysis, proper procedures for
	treatment, handling, disposal of wastes.)
7/14-10/17	LADOTD No. H.009943, US 190 Phase 2 – Cleaning, Painting & Repair
	On-site environmental monitor (includes paint sampling for heavy metals analysis, proper procedures for
	treatment, handling, disposal of wastes.)
10/12-7/16	LADOTD No. H.000343, US 190 Phase 1 – Cleaning, Painting & Repair
	On-site environmental monitor (includes paint sampling for heavy metals analysis, proper procedures for
	treatment, handling, disposal of wastes.)

Einm amplayed by		antal Carria	Tna							
Firm employed by										
				Years of relevant experience with this employer	12					
	nvironmental Profess	ional	1	Years of relevant experience with other employer(s)	3					
Degree(s) / Years	*			2010 / Business Administration / University of Louisiana - M						
	number / state / exp	iration date	SSPO	C C-3/C-5 (Expires 7/2022); NACE - Coatings, Level 2/5084	1 / 3/2024					
Year registered	2013	Discipline	Senio	or Tech (Environmental)						
` '	orief description of re	1								
			rotecti	ve coating material samples for determination analysis for he	avy metals,					
procedures for trea	atment, handling, disj									
Experience dates	Experience and qua	alifications rele	evant t	to the proposed contract; i.e., "designed drainage", "designed	ed girders",					
(mm/yy-mm/yy)				dates should cover the time specified in the applicable MPR						
Relevant	Chris has many yea	rs of LADOTI	Э ехре	erience working as an environmental monitor on painting and						
Experience for	rehabilitation project	ets. Chris has v	vorked	d on 10 major LADOTD lead removal bridge repainting proje	ects					
all projects	performing the sam	e duties as requ	iested	by this RFQ since 2010. He has also worked on other Depart	rtments of					
reported				neers, and private railroad repainting and rehabilitation project						
4/19- On going	LADOTD No. H.00	9461, US 90 A	tchafa	laya River Bridge Rehabilitation						
	On-site environment	al monitor (incl	ludes p	paint sampling for heavy metals analysis, proper procedures for t	treatment,					
	handling, disposal o	,								
10/20-07/21				NACE certified bridge coating inspector. Performed a comprehe						
				to determine the condition of the existing coatings and recomm						
		-	n. Scoj	pe also included comprehensive sampling of the existing coating	g system for					
	the presence of heav									
2/18-8/19		,		lean, Paint and Miscellaneous Repairs						
			ludes p	paint sampling for heavy metals analysis, proper procedures for t	treatment,					
	handling, disposal of									
7/14-10/17				2 – Cleaning, Painting & Repair						
			ludes p	paint sampling for heavy metals analysis, proper procedures for t	treatment,					
0/12 0/15	handling, disposal of		4 40	C (AN MC 00 42 N () Y' P () N ()						
8/13-8/15		-		on Contract No. MS-08-13, Natchez Vidalia Bridge, Natche	*					
				d a comprehensive coatings evaluation of the entire bridge to de						
				emmended alternatives for coating rehabilitation of this major M						
				d corrosion protection for the structure. Scope also included con	nprenensive					
	sampling of the existing coating system for the presence of heavy metals.									

Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Modjeski and M	asters, Inc	2.	F	Past Performance Evaluation Discipline(s)* Bridge				
Project name							Firm responsibi	lity (prime or su	ıb?) Prime
Project number H.010016.5 Owner's name					Louisiana Department of Transportation and Development			ment	
Project location New Orleans, Louisiana						Owner's Pro	ject Manager	ZhengZheng F	u, PE
Owner's address	ss, phone, email	1201 Capi	tal Access	Road, Ba	aton Roug	e, LA 70802	, (225) 379-1321	, zhengzheng.fu	@la.gov
Services commenced by this firm (mm/yy) 04/2013 Tot				Total co	otal consultant contract cost (\$1,000's)				\$1,631
Services completed by this firm (mm/yy) Ongoing Cos				Cost of	consultar	t services pro	ovided by this firm	m (\$1,000's)	\$1,530

This project involved the performance of structural, mechanical, electrical and architectural rehabilitation services for the two bascule spans within this five mile bridge in order to extend its life for 30-40 additional years. Constructed in 1938, this structure contains two double-leaf bascule bridges that carries US 11 across Lake Pontchartrain at New Orleans, Louisiana.

Tasks Performed:

- Evaluation of the conditions of structural, mechanical, electrical and architectural components of this bridge.
- Evaluation of existing paint system and recommendations.
- Development of Scope of Services for the rehabilitation of this bridge.
- Development of preliminary plans.
- Bridge Rating
- Construction Related Engineering Support services
- Construction Engineering and Inspection for Bridge Coatings and Shop Inspection







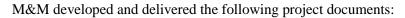


Personnel Involved: Zolan Prucz, PhD, PE, Ralph Eppehimer, PE, Dave A. Kanger, PE, Cullen J. Ledet, PE, Lance V. Borden, PE, Jeff W. Newman, PE, Michael J. Beitzel, Jon Gerhart, PE, Greg Taravella, PE

Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Modjeski and Masters, Inc	2.	I	Past Performance Evaluation Discipline(s)* Bridge			(s)* Bridge	
Project name	LA 16 over Tangipahoa R	iver Bridge R	eplac	ement		Firm responsibi	lity (prime or sub	?) Prime
Project number	Project number H.013183 Owner's name Louisiana Department of Transportation and Developme					ent		
Project location Tangipahoa Parish, LA Owner's Project Manager Stephanie Doolittle					ttle, P.E.			
Owner's address	s, phone, email 1201 Cap	tol Access Ro	ad, Ba	aton Roug	e, LA 70802	, 225-379-1329,	Stephanie.Doolit	tle@la.gov
Services comm	enced by this firm (mm/yy)	09/17	Tota	l consulta	nt contract co	st (\$1,000's)		\$454
Services compl	03/21	Cost of consultant services provided by this firm (\$1,000's)			\$380			

M&M developed all necessary topographic surveys, preliminary and final plans for this bridge replacement project on LA 16, between LA 51 and LA 1054, in Amite City, LA. This project included reconstruction of the approach slabs and roadway on the east and west sides of the bridge. It was anticipated that traffic shall be maintained during construction with an on-site diversion roadway and bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QC/QA was provided in accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was provided and is currently on-going.



- Final Roadway plans
- Final bridge design
- Final bridge plans
- Final temporary diversion and bridge plans
- Transportation Management Plan (TMP) Level 2
- Construction Signing Plans

- As Design Rating
- Construction Cost Estimate
- Final Roadway and Bridge Quantities
- Special Provisions
- Design Waivers and Exceptions

PERSONNEL: Zolan Prucz, PhD, PE, Yu Ouyang, PE, Jared Weisman, PE, Lindsey Woolverton, PE, Cullen J. Ledet, PE

Page 169 of 208 Prime consultant name: Modjeski and Masters, Inc.

Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Modjeski and M	Modjeski and Masters, Inc.				rmance Evalu	ation Discipline	(s)* Bridge	
Project name	US 61 at Thom	US 61 at Thompson Creek Bridge Replac				Firm responsibility (prime or sub?)			?) Prime
Project number	number H.013193 Owner's name Louisiana Departmen					t of Transportati	on and Developm	ent	
Project location St. Francisville, LA Owner's Project Manager Steph					Stephanie Dooli	ttle, P.E.			
Owner's address	ss, phone, email	1201 Capit	ol Access Roa	ad, Ba	aton Roug	ge, LA 70802	, 225-379-1329,	Stephanie.Doolit	tle@la.gov
Services comm	enced by this firm	(mm/yy)	09/17	Tota	l consulta	nt contract co	ost (\$1,000's)		\$502
Services completed by this firm (mm/yy)			Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$436		

M&M provided all necessary preliminary and final plans for the rehabilitation of the northbound bridge and replacement of the southbound bridge on US 61 over Thompson Creek, between LA 10 and LA 964, near St. Francisville, LA. It was anticipated that traffic would be maintained during the construction of the new southbound bridge with temporary two-way traffic on the rehabilitated northbound bridge. The project also included the design and detailing of adding a helper bent to the northbound bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QC/QA was provided in accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was provided and is currently on-going.

M&M developed and delivered the following project documents:

- Final Roadway plans
- Final bridge design
- Final bridge plans
- Final temporary detour roadway and bridge plans
- Transportation Management Plan (TMP) Level 2
- Construction Signing Plans

- As Design Rating
- Construction Cost Estimate
- Final Roadway and Bridge Quantities
- Special Provisions
- Design Waivers and Exceptions

PERSONNEL: Zolan Prucz, PhD, PE, Yu Ouyang, PE, Jared Weisman, PE, Lindsey, Woolverton, PE, Cullen J. Ledet, PE

Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Modjeski and M	Modjeski and Masters, Inc.				rmance Evalu	ation Discipline	(s)* Bridge	
Project name	LA 3249 (Well 1	LA 3249 (Well Road) Bridge Replacement				ment Over I-20 Firm responsibility (prime or			b?) Prime
Project number	700-99-0450 Owner's nar				Louisiana Department of Transportation and Development			ment	
_	Task Order: 70	Task Order: 701-65-1098					_	_	
Project location	West Monroe	, LA				Owner's Pro	ject Manager	Mark D. Bucci.	, PE
Owner's addres	s, phone, email	1201 Capita	1 Access	Road, Ba	aton Roug	e, LA 70802	, (225) 379-1076	6, Mark.Bucci@l	la.gov
Services commenced by this firm (mm/yy) 6/2008 T			Total co	al consultant contract cost (\$1,000's)			\$200		
Services comple	3/2011	Cost of	Cost of consultant services provided by this firm (\$1,000's) \$13			\$184			

The project involved the design of a replacement superstructure while providing minimal impact to traffic on both LA 3249 and I-20. Constructed in 1963, the existing structure consisted of four (4) simple spans (50'-85'-70'-55') consisting of four composite, welded steel girders with a 7-inch lightweight concrete deck. Due to deck deterioration from a high average daily traffic with heavy truck traffic, the superstructure was scheduled for replacement. In addition to replacing the superstructure, it was determined that the existing substructure would require strengthening. The strengthening was accomplished through the addition of drilled shafts on the end bents and collision walls on the interior bents.

PROJECT FEATURES:

- Design and development of plans and specifications for new steel girder spans with a composite concrete deck.
- Design and development of plans and specifications for strengthening the existing substructure.
- Investigate accelerated bridge construction methods and establish constructability.
- Provide traffic control plans for maintenance of traffic during construction.
- Provide construction engineering services including review of construction submittals and RFIs.

PERSONNEL: Zolan Prucz, Ph.D., PE, Cullen J. Ledet, PE, Dave W. Petermeier, PE, SE, Rachel. L. Mertz, PE, SE





Identify the team's project experience most relevant to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Modjeski and Masters	s, Inc.	Past Performa	Past Performance Evaluation Discipline(s)* B		
Project name	LA 160 Bridges Cane	y Creek and Bod	cau Bayou	Firm responsibility (pr	Sub	
Project	700-99-0488	Owner's	Louisiana I	Louisiana Department of Transportation and Development		
number	Task Order: 701-65-1	350 name				
Project location	n Bossier Parish, LA		Ov	vner's Project Manager	Chris B. Guid	ry, PE
Owner's addre	ss, phone, email 120	1 Capital Access	Road, Baton Rou	ge, LA 70802, (225) 379	9-1328, chris.gu	uidry@la.gov
Services comm	enced by this firm (mm	/yy) 08/2009	Total consultant contract cost (\$1,000's)			~\$400
Services comp	leted by this firm (mm	/yy) 12/2011	Cost of consulta	nt services provided by t	this firm (\$1,00	00's) \$285

This project called for the preparation of final plans, permit drawings, construction cost estimate and special provisions for a new integral bridge design and analysis developed for Louisiana Department of Transportation and Development. The two subject bridge sites that cross Caney Creek and Bodcau Bayou in Bossier Parish, LA were the first two fully integral bridges in the state thus providing a jointless deck, less maintenance, better rider experience and potential cost savings. This pilot program also included 3D analysis, design methodology development and instrumentation. 3D analysis of both bridges was performed utilizing LUSAS software based on new soil and backfill parameters, including a parametic study to account for uncertainty in the soil conditions. Strain gauge and other testing was conducted to follow the behavior of the bridge design over a period of time. Construction

engineering support was also included as part of this project.

Construction support was also included as part of this project.

This project received a Transportation Excellence Award in the category for Bridge Construction (less than \$10M) at the 2013 Louisiana Transportation Conference.

Firm Members:

Zolan Prucz, Ph.D., PE, Jason W. Miles, PE, Yu Ouyang, PE, Cullen J. Ledet, PE

Firm name	Vectura Consultin	g Services	, LLC	F	Past Perfo	rmance Evalu	ation Discipline((s)* Traffic &	CE&I
Project name	Belle Chasse Bridge	e & Tunnel	Replacen	nent PP	P		Firm responsibi	lity (prime or su	b?) sub
Project number H.004791 Owner's name DOTD									
Project location Belle Chasse, LA Owner's Project Manager Nickolas Olivier, I						er, PE			
Owner's address	ss, phone, email 12	201 Capito	l Access R	load, Ba	aton Roug	ge, LA 70802,	225-379-1133, 1	Nicholas.olivier	@la.gov
Services comm	enced by this firm (m	nm/yy)	04/19	Total o	consultant	contract cost	(\$1,000's)	·	unknown
Services compl	eted by this firm (n	nm/yy)	current	Cost o	f consulta	nt services pr	ovided by this fir	rm (\$1,000's)	211.890

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

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

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

Firm name	Vectura Consul	ting Services	, LLC	I	Past Perfo	rmance Evalu	ation Category(i	ies)* TM	
Project name	Roundabout: U	S 171 at Boo	ne St.				Firm responsible	ility (prime or su	b?) sub
Project number	H.011909.5-4		Owner's	name	DOTD				
Project location Vernon Parish, LA Owner's Project Manager Josh Harrouch									
Owner's address	ss, phone, email	PO Box 942	45 Baton 1	Rouge,	LA 7080 ²	1-9245, (225)	242-4640, Joshu	ıa.Harrouch@LA	A.GOV
Services commenced by this firm 11/20 T				Total o	Total consultant contract cost (\$1,000's)				unknown
Services compl	eted by this firm		12/21	Cost o	f consulta	int services pr	ovided by this fi	rm (\$1,000's)	\$82.045

Vectura designed temporary traffic signal plans as part of the sequence of construction plan for a roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. The purpose of the project was to replace the existing signalized intersection with a multilane roundabout at Boone Street.

Temporary Traffic Signal Design

Vectura performed following design tasks to develop temporary traffic signal plans:

- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase,
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase,
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor,
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate, and
- Coordinated with DOTD Traffic Section and District Traffic Engineer.

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

Firm name	Marrero, Couvi	Iarrero, Couvillon & Associates, LLC				rmance Evalu	ation Discipline	(s)* Bridge	
Project name	US 11 Lake Pon	JS 11 Lake Pontchartrain Bridge Rehal				Firm responsibility (prime or sub			b?) Sub
Project number	4400002538 Owner's nar				Louisiana Department of Transportation				
	Task order H.0	10016							
Project location	Orleans and S	t. Tammany	Parishes			Owner's Pro	ject Manager	Justin Guilbeau	Į
Owner's addres	s, phone, email	LA DOTD I	District 02	2, 504.2	53.6120, J	ustin.Guilbea	u@la.gov		
Services commenced by this firm (mm/yy) 11/13 Total				Total c	otal consultant contract cost (\$1,000's)				Unknown
Services completed by this firm (mm/yy) 2021 Co				Cost of	Cost of consultant services provided by this firm (\$1,000's)			\$151	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
The US. 11 bridge crossing the east end of Lake Pontchartrain in Orleans and St. Tammany Parishes, near the City of Slidell, was constructed in 1938. The bridge structure has two double-leaf movable bascule spans known as "North Draw" and "South Draw." The purpose of the project was to comprehensively rehabilitate the structure.

MCA was engaged to evaluate the condition of the Operator's House for both architectural and mechanical systems, make recommendations for repair/replacement, and to undertake the design for this work. Design must be sensitive to the historic nature of the bridge and operator's houses. The scope of services includes:

- a. Site inspection to identify all architectural and mechanical systems to be rehabilitated, including modifications needed to meet codes and regulations, or to improve functionality and reliability.
- b. Prepare a scope of work document with associated costs
- c. Preliminary plans
- d. Final plans and specifications
- e. Construction cost estimate
- f. Construction related engineering support.

Key Personnel:

Greg DeCoursey, AIA – Project Manager Brian Miller, P.E. – Sr. Mechanical Engineer Tom Johnson, P.E. – Sr. Mechanical Engineer



Firm name	Fugro USA Lar	ıd, Inc.		I	Past Performance Evaluation Discipline(s)* Geotec			(s)* Geotechi	nical
Project name	Kansas Lane, G	arrett Road	Connect	or and I	-20 Impro	ovements	Firm responsible	ility (prime or su	ıb?) Sub
Project number	H.004774 & H	.007300.6	Owner's	s name	State of	Louisiana, D	OTD		
Project location									
Owner's address	ss, phone, email	1201 Capito	l Access	Road, Ba	aton Roug	e, LA 70802,	225-379-1387,	Kristy.smith2@1	a.gov
Services commenced by this firm (mm/yy) 09/17 Total consultant contract cost (\$1,000's)					2,853				
Services compl	eted by this firm	(mm/yy)	Ongoing	Cost of	consultan	t services pro	vided by this fir	m (\$1,000's)	279

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

The Louisiana Department of Transportation and Development (LADOTD) is planning to widen Garrett Road and provide a connection from I-20 to Kansas Lane in the City of Monroe, Ouachita Parish. The project includes widening Garrett Road to four lanes from the intersection with Huntington Drive, north to Millhaven Road. The existing overpass along Garrett Road over I-20 will be straightened. A second overpass will be added south of I-20 and extending across the I-20 interchange. Garrett Road improvements includes a second two-lane bridge beginning south of Millhaven Road, passing over Millhaven Road and the Kansas City Southern (KCS) railroad (KCS) and ending north of Millhaven Road. The southern bridge approach will consist of an embankment, mechanically stabilized earth wall (MSEW) structure.

Fugro provided a geotechnical study that included a field study, laboratory testing, engineering analysis and data reporting to assist Lazenby & Associates, Inc., the prime design consultant, in the design of the new additions. Fugro's specific scope of work included the following:

- Developed a traffic plan and implemented traffic control for the field
- Drilled 22 pavement borings for a subgrade soil survey program
- Drilled 26 soil borings ranging from 70 to 120-ft each using LADOTD protocols
- MSE wall considerations
- Embankment settlement and slope stability calculations for various fill heights and surcharge evaluations
- Performed deep foundation engineering analysis and developed pile order lengths using AASHTO LRFD specifications

Project Team: Sam Bryant, PhD, PE, PG, Eric Marx, PE, Jack Koban, PhD, PE, PG, Mike Allen, Deborah Meyer-Sayer

Firm name	Fugro USA Lar				Past Performance Evaluation Discipline(s)* Geot				nical
Project name	LA DOTD States	wide Geotechn	ical Reta	iner IDI(Q Contrac	t (multiple)	Firm responsibi	lity (prime or s	ub?) Prime
Project number	700-66-0507		Owner'	s name	State of	Louisiana, D	OTD		
Project location	Project location Statewide, Louisiana Owner's Project Manager K							Kristy Smith	
Owner's address	Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1387, Kristy.smith2@la.gov								
Services comm	enced by this firm	(mm/yy)	07/10,	7/10, Total consultant contract cost (\$1,000's)					N/A
			01/20						
Services comple	(mm/yy)	05/17,	Cost of consultant services provided by this firm (\$1,000's)			m (\$1,000's)	6,000		
			01/23						

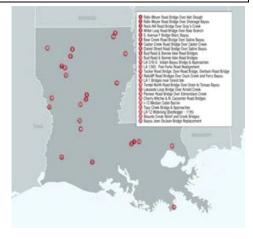
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.) As part of a Statewide Geotechnical retainer contract awarded multiple times, Fugro performed geotechnical exploration and engineering related services for statewide projects under individual Task Orders for DOTD. The contracts have included over 25 task orders have covering a wide geographical area of Louisiana. The geotechnical investigations, sampling, and testing services provided for this contract include:

Field reconnaissance for equipment access	Drafting of subgrade soil surveys
Land clearing for equipment access	Instrumentation installation – LA 70 (Bayou Corne sinkhole)
Deep and shallow soil borings	Exploration location survey
ECPT soundings	Laboratory testing
Drafting of boring and ECPT logs	

Mr. Marx served as principal-in-charge for this program which included performing over 20 task orders for bridge structures across Louisiana with a total program cost of over \$4M. The scope of work included soil borings (on land and in water), laboratory testing, engineering analysis, and design recommendations. Fugro was also retained to install geotechnical instrumentation. Mr. Marx negotiated and oversaw completion of task orders. Work was performed in accordance with DOTD protocols.

Fugro was once again selected for this contract in 2020 and has been awarded 4 task orders between 2021 and 2022 the largest of which included over 70 borings.

Project Team: Eric Marx, PE; Jack Koban, PhD, PE, PG; Sam Bryant, PhD, PE; Deborah Meyer-Sayer; Mike Allen, PG; Mike Hollier, PE; Viet Le, EI; Andrew Bull, EI; Sheldon Collins



Firm name	Wiss, Janney, El	stner Asso	ociates, Inc.	Past	Performance Evalu	nation Discipline(s)	* Bridge	
Project name	Danziger Lift Br	idge Repa	ir			Firm responsibilit	y (prime or su	b?) Prime
Project number	Contract 440000)9424,	Owner's nam	ie	Louisiana Department of Transportation and Development			elopment
H.000303								
Project location New Orleans. LA Owner's Project Manager Mark Bucci								
Owner's addres	s, phone, email	1201 Cap	oitol Access Ro	d., 6th flo	or, Baton Rouge, L	A 70802; (225) 379	9-1321;	
		ZhengZh	eng.Fu@LA.C	OV				
Services commenced by this firm (mm/yy) 07/19 Tot					ltant contract cost	(\$1,000's)		\$1,386
Services comple	eted by this firm	(mm/yy)	Ongoing C	ost of con	sultant services pro	ovided by this firm	(\$1,000's)	\$1,347



The Danziger Lift Bridge is an electro-mechanical, tower drive vertical lift bridge that opened to vehicular traffic in 1984. The bridge was reportedly experiencing operational issues, which included the movable span no longer fitting into the available space between the towers as well as one corner of the bridge not seating properly. WJE was tasked with performing an inspection of relevant portions of the main span contributing to the reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the long-term functionality and reliability of the bridge. WJE installed instrumentation and monitoring equipment during the field investigation to evaluate the bridge's operations over an extended period. Based on the findings from our investigation, WJE prepared emergency repair plans and specifications to address some of the operational issues with the bridge. Significant findings and the associated remedies included the following.

- Improving the lift span riding surface on the steel orthotropic deck with the installation of polyester polymer concrete repairs.
- Identification of pinion shaft bearing damage and the subsequent restoration of the pinion shafts and bearings.
- Addressing the contact of the lift span during warm temperatures with the approach spans by monitoring the joint movements and identifying that daily thermal movements of the approach spans were causing the issue, and that by cleaning the expansion joints, the issue was alleviated.
- Design of a new lift span skew control system after existing components were removed from the bridge and could not be relocated or replaced in kind.
- Design of electrical controls for the clutches associated with the span drive differentials.
- Strain gage testing to measure span balance and implementation of counterweight changes to improve seating of the span.
- Strain gage testing also showed that the span drive differentials on both towers were not functioning properly requiring coordination with the manufacturer to properly adjust the clutches in the differentials.
- Inspection of trunnion bearings and the installation of an automated acoustic monitoring system to assess bearing performance until scheduled replacements are required.

Members involved: J. McGormley (Project Manager), S. Lauer (Project Engineer), M. ElBatanouny (Project Engineer), J. Williams (Project Mechanical Engineer), G. Rees (Project Electrical Engineer).

Firm name	Wiss, Janney, Elstner Associates, Inc.				Past Performance Evaluation Discipline(s)* Bridge				
Project name	Sunshine Bridge over the Mississippi River				er, Impact Repair		Firm responsib	ility (prime or su	b?) Prime
Project number	er 4400009424; H.012343.6-1 Owner's name Louisiana Department of Transportation and Developme							nent	
Project location St. James Parish, LA					Owner's Project Manager Chris Guidry				
Owner's address, phone, email Suite 605G, Baton Rouge, LA; 225.379.1328; Chris.Guidry@LA.GOV									
Services commenced by this firm (mm/yy) 10/			10/18	Total consultant contract cost (\$1,000's)					\$516
Services completed by this firm (mm/yy)			01/19	Cost o	Cost of consultant services provided by this firm (\$1,000's)				\$499

The Sunshine Bridge is a cantilevered through truss with a main span of 825 feet that crosses the Mississippi River. Constructed in 1964, the bridge provides 170

feet of vertical clearance over the river channel. In the early morning hours of October 12, 2018, a crane barge tow made contact with the bottom chord of the truss. The resulting impact severely distorted the chord including the fracture of a castellated bottom plate. The damaged chord is in a region of compression four truss panels from a support. The bridge was closed to traffic by the LADOTD.

WJE was responsible for the development and implementation of a monitoring plan to provide information about the redistribution of loads during the installation of repairs to the damaged truss bottom chord. WJE engineers performed a review of the original design and construction documents with an evaluation of distortion measurements and damage survey findings to inform the design of a jacking system. WJE engineers developed a novel approach to jack apart the affected truss chord panel points to restore the original truss geometry to within 3/16-inch and to permit installation of a replacement bottom truss chord section. Multiple hydraulic jacks achieved a jacking load of 2.2 million pounds. Heat straightening was also used to restore portions of the chord. WJE instrumented selected truss members to monitor changes in forces during repairs. The jacking system members were also monitored. Working



with the project surveyor, WJE engineers used their laser scanning data to assist in restoring the structure's geometry. Other project responsibilities assumed by WJE included development of jacking frame shop drawings, review of the replacement chord design, technical assistance during jack system installation, oversight of chord jacking operations, and instrumentation and monitoring of the truss.

Replacement of the damaged truss chord was completed by December 1, 2018, enabling the structure to be reopened to limited traffic while the repair project was completed.

Members involved: J. McGormley (Project Manager), S. Lauer (Project Engineer), M. ElBatanouny (Project Engineer).

Firm name	Moffatt & Nich	ol		F	Past Performance Evaluation Discipline(s)* Bridge				
Project name	2017 Retainer C	Underwat	er Brid	idge Inspections, Firm responsibility (prime of		ility (prime or su	b?) Prime		
	Statewide								
Project number	r 4400009104 Owner's name Louisiana					na Departmen	nt of Transportati	ion and Developr	nent
Project location	Louisiana					Owner's Pro	ject Manager	Haylye Brown,	PE
Owner's address	s, phone, email	1212 East I	Highway D	rive, Ba	ton Rouge	e, Louisiana 7	70802 / 225.379.	1500 / haylye.bro	own@la.gov
Services commenced by this firm (mm/yy) 06/17 Total consultant contract cost (\$1,000's) \$1,34						\$1,346			
Services comple	Services completed by this firm (mm/yy) 12/21 Cost of consultant services provided by this firm (\$1,000's) \$980						\$980		

In June 2017, Moffatt & Nichol (M&N) began a four-year statewide retainer contract with LADOTD to provide Levels I, II, and III NBIS underwater bridge inspections throughout Louisiana. All inspections were completed in accordance with current FHWA, CFR, AASHTO, and LADOTD standards and guidelines. M&N has performed over 215 underwater bridge inspections under this contract and over 900 inspections total. For each inspection, M&N provided a detailed inspection report within 30 days and entered inspection data into LADOTD's asset management tool (AssetWise). As part of M&N's quality control process, each inspection report was reviewed a minimum of three times, with subsequent reviews performed by team members with increasing levels of experience/qualifications.

Of particular note, Moffatt & Nichol was tasked with the development of the first comprehensive Bridge Inspection Manual (BIM) for LADOTD Bridge Program. Chace Hulon, PE, was Chief Editor. The BIM is designed as a single, centralized reference manual and aligns the goals of the Bridge Inspection Office Headquarters with all nine DOTD districts. It also allows for better communication and quality management between the DOTD project managers, their local bridge owners, and their consultants.

The BIM was designed to be used electronically on tablets as a reference file accessible to all DOTD bridge inspection team leaders. It includes nine chapters intuitively ordered in a systemic fashion with hyperlinks throughout for quick referencing to vital documents. It also allows for documented annual revisions or critical updates following federal policy changes.

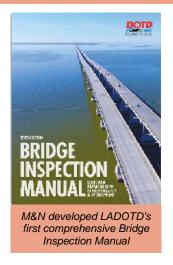
Moffatt & Nichol compiled all DOTD reference material, outlined the BIM, held routine (weekly) progress meetings with DOTD PM, FHWA representative, & subject matter experts on the committee, provided statewide programmatic guidance with a national perspective, verified compliance with FHWA's 23 National Bridge Inspection Program Metrics, & presented BIM at a DOTD statewide conference.

Nature of firm's responsibility: Prime Consultant; Overall responsibility for entire contract.

Firm members involved include: Chace Hulon, PE; Steven Armstrong, PE; Joshua Martinez, PE; Jeffrey Gazarek



M&N provide Levels I, II, and III NBIS underwater bridge inspections throughout Louisiana



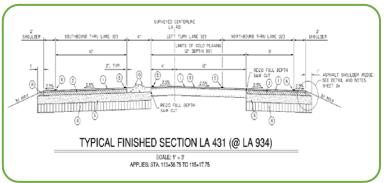
Prime consultant name: Modjeski and Masters, Inc.

Firm name	Meyer Engineers, Ltd.		Past Performance Evaluation Discipline(s)* Road			
Project name	LA 431 @ LA 934 Intersect	ents Fir	m responsibility (prime or sub?)	Prime	
Project number	S.P. No. H.007855	Owner's nam	e Department of Transporta	ation and Develop	ment	
Project location						
Owner's address	ss, phone, email P.O. Box 94	1245, Baton Ro	ige, LA 70804; 225-379-1041	l; Patrick.Toney@	LA.GOV	
Services comm	enced by this firm (mm/yy)	02/14	Cotal consultant contract cost ((\$1,000's)	9	\$513
Services compl	eted by this firm (mm/yy)	06/17	Cost of consultant services pro	ovided by this firm	n (\$1,000's)	\$368

Meyer Engineers, Ltd. (Meyer) completed Preliminary and Final Plans for the LA 431 at LA 934 (Gold Place Road) Intersection Improvement Project in Ascension Parish. This DOTD Urban System Project included widening 1,800' of highway to add left and right turn lanes. The project consisted of asphaltic concrete pavement widening of 1,800' along LA 431 and 400' along LA 934. Additional items included subsurface drainage

at the intersection, roadside drainage, base course, paved shoulders, mill and overlay, driveway replacements, striping, utility relocations, and traffic signals. Meyer developed typical sections, plan and profile sheets, design drainage map, geometric details, pavement markings, signing layout, construction signing and sequence of construction, temporary erosion control plan, and cross sections as part of the plan set.

The project also included right-of-way acquisition along LA 431 and LA 934. Meyer developed right-of-way requirements and reviewed right-of-way maps, real estate appraisals, and title reports.



To accommodate the required amount of right-of-way per the DOTD design guidelines which would have severely impacted some businesses, and would have caused their relocation, Meyer changed the design section in this area to subsurface drainage, which would fit within the existing right-of-way,



thereby eliminating the need to relocate these businesses. Construction Cost: \$1.5M

DOTD's Project Manager, Patrick Toney, stated "Meyer Engineers, Ltd.

developed Final Plans that stayed on *schedule and budget*." "The consultant also did a *great job* of *coordinating multiple sub consultants*." *Members Involved:* Richard Meyer, David Dupre, Jitendra Shah, Kenneth Belou; 100% of the work for this project was performed in Louisiana.

17.1 H H Exper	1011001								
Firm name	Meyer Engineer	rs, Ltd.]	Past Perfo	rmance Evalu	ation Discipline	(s)* Road	
Project name	Ford Street Ext	ension					Firm responsible	ility (prime or su	b?) Prime
Project number	State Project N	o. H.11310	Owner'	s name	Departn	nent of Transp	portation and De	velopment	
Project location	East Baton R	ouge Parish				Owner's Pro	ject Manager	Catherine Mast	in
Owner's address	ss, phone, email	P.O. Box 94	245, Bate	on Rouge	e, LA 708	04; 225-379-	1652; Catherine.	Mastin@LA.GO	V
Services comm	enced by this firm	(mm/yy)	04/19	Total c	onsultant	contract cost	(\$1,000's)		\$178
Services compl	eted by this firm ((mm/yy)	On-	Cost of	consultar	nt services pro	ovided by this fir	m (\$1,000's)	\$151
			Going			_			

Meyer Engineers, Ltd. (Meyer) is preparing Preliminary Plans for Ford Street Extension in East Baton Rouge Parish. The design is

being coordinated by DOTD in conjunction with East

Baton Rouge Parish.

The project will extend 2,700' from LA 67 (Plank Road) to Howell Place Boulevard. The extension will consist of a concrete roadway with 2-11' lanes, 30' wide raised median, subsurface drainage, and sidewalks on both sides.

Water and sewer design is also included in the project. Plans include typical sections, plan and profile sheets, design drainage map, geometric details, pavement markings, signing layout, construction signing and sequence of construction, temporary erosion control plan, and cross sections.

There are various projects being designed and constructed in the vicinity of this project that require Meyer to coordinate with private, state, and local public entities. The project also has an accelerated design schedule. Construction Cost: \$3.5M (EST)

Members Involved: Richard Meyer, David Dupre, Mark Schutt, Robert Klare

100% of the work for this project was performed in Louisiana.



Firm name	C. H. Fensterma	aker & Assoc	ciates, L.	L.C. F	Past Performance Eva	luation Discipline	e(s)* Survey	
Project name	Underwater Acoustic Imaging for Bridge Inspection Statewide Firm responsibility (prime or sub							
Project number	S.P. No. 700-52	2-0198	Owner's	s name	Louisiana Departme	ent of Transportat	tion and Developn	nent
Project location Washington Parish, LA Owner's Project Manager Haylye G. Brown, P.E.								
Owner's address	ss, phone, email	1201 Capito	l Access	Rd, Bato	n Rouge, LA 70802,	(225) 379-1500,	Haylye.Brown@L	A.GOV
Services commenced by this firm (mm/yy) 11/11 Total consultant contract cost (\$1,000's)					\$114			
Services compl	eted by this firm	(mm/yy)	11/13	Cost of	consultant services p	rovided by this fi	rm (\$1,000's)	\$114

Fenstermaker was contracted to provide Underwater Acoustic Imaging (UAI) services for the underwater bridge inspection of pier systems for 72 state-maintained bridges. The project scope consisted of an underwater acoustic inspection and evaluation of the submerged components of the piers utilizing a multi-axis, steered beam imaging and profiling remote sensing system with all acoustic data correlated to a Real Time Kinematic (RTK) GPS positioning system. The purpose of the inspection and evaluation was to identify and locate any major damage or deterioration of the pier structures along with a detailed localized inspection of any observed anomalies using both the acoustic imaging system and dive inspection; and identify any localized scour impact or erosion of the surrounding water bottom. The data was processed, and mosaics of the acoustic imagery were generated and included in a report that also documents the findings and recommendations resulting from the UAI and dive inspections



STAFF TO BE USED IN THIS PROPOSAL

Justin Bordelon, PLS

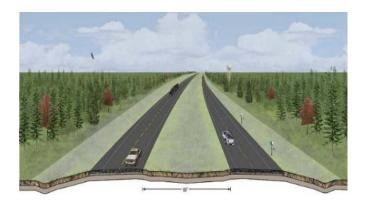
Lance Fontenot

17. I IIIII LAPCI	1011001									
Firm name	C. H. Fenstermaker & Associates, L.L.C.				Past Performance Evaluation Discipline(s)*			(s)* l	Environmental,	
]	Planning, Ro	ad
Project name	I-12 to Bush En	vironmental	tatemei	nent (EIS) Firm responsibility (prime or sub?) S			Sub			
Project number	S.P. No. 700-5	Owner's	name	e Louisiana Department of Transportation and Development			nt			
Project location	n Washington F	Parish, LA				Owner's Pro	ject Manager	Noel A	Ardoin	
Owner's address	ss, phone, email	1201 Capito	l Access R	Rd, Bato	on Rouge,	LA 70802, (2	225) 242-4501, N	Noel.Ar	doin@la.gov	,
Services commenced by this firm (mm/yy) 01/10 Total					onsultant	contract cost ((\$1,000's)		\$3	3,065.08
Services compl	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `						ovided by this fir	m (\$1,0	000's) \$1	,034.71

The I-12 to Bush Project was studied as a planning effort by LADOTD and regional municipalities since the 1980s to provide a 4-lane highway from I-12 to Bogalusa, LA in Washington Parish. The proposed project was defined as a high speed, 4-lane arterial highway that will connect I-12 to the southern terminus of the current 4-lane arterial portion of LA 21 in Bush, LA. Fenstermaker performed specific duties in the development of an Environmental Impact Statement (EIS) for the proposed highway. Fenstermaker was a sub-consultant to Tetra Tech and was responsible for all public and agency coordination, hydrology and hydraulics analyses, line and grade study, GIS database, conceptual stage relocation plan, and preparing the Draft and Final Environmental Impact Statement Report.

A TOWNS A TOWN

STAFF TO BE USE IN THIS PROPOSAL Dax Douet, P.E.



Firm name	B	Bridge Diagnostics, Inc. (BDI)				Past Perfo	rmance Eva	aluation Discipline	(s)*	Bridge	
Project name		IDIQ Contract for Complex Bridge Load Rating Services Task 5 – Off-System Bridge Ratings and Evaluation Statewide					Firm responsibility (prime or sub?)) Sub	
Project number	4400010099 Owner's name Louis					Louisian	na Departm	ent of Transportati	on an	d Developr	nent
Project location		Various, Loui	siana				Owner's I	Project Manager	Wei	Peng	
Owner's addres	s, p	phone, email	1201 Capito	l Access R	Road, B	aton Roug	e, LA 7080	02, (225) 379-1486	, wei.	peng@la.g	OV
Services commenced by this firm (mm/yy) 10/21 Total					Total	Total consultant contract cost (\$1,000's)				Unknown	
Services completed by this firm (mm/yy) Present C					Cost	Cost of consultant services provided by this firm (\$1,000's)			\$456		

As part of the scope of Task Order 5 of this contract, BDI performed live-load testing and field-verified load ratings on ten (10) off-system structures. These structures were selected from a list of structures that were determined to require load posting based on load ratings previously performed in this contract and included three (3) reinforced concrete slab bridges and seven (7) metal culverts of various types/configurations. These selected structures are intended to be representative of a larger sample set of similar structures that the results are intended to make broader assumptions about the group of bridges as a whole.

Live load tests were performed to aid in evaluating the structures in their current condition. The overall goal of these tests was to better understand the structure's behavior and in turn provide field-verified load ratings for each structure. To achieve this goal, the collected structural responses were used to generate a field-verified finite-element model (FEM) of the structure.

This field-verified FEM was then used to compute field-verified load ratings according to the AASHTO Manual for Bridge Evaluation (MBE) and the LADOTD Bridge Design and Evaluation Manual (BDEM).

Key Members: Brett Commander, Principal Engineer; Brice Carpenter, Lead Analysis/Rating Engineer; Jesse Sipple, QC Engineer/Project Manager



Scopes of Work Relevant to the contract:

- LADOTD PROJECT
- Assessment of Instrumentation Needs
- Instrumentation Plan Preparation
- FIELD INSTRUMENTATION INSTALLATION
- Data Acquisition and Communication
- INSTRUMENTATION MAINTENANCE AND PROBLEM RESOLUTION
- LOAD TESTING, DATA ANALYSIS, AND LOAD RATING

Firm name	Bı	Bridge Diagnostics, Inc. (BDI)				Past Perfo	rmance Eva	aluation Discipline	(s)*	Bridge		
Project name	St	Sunshine Truss Bridge Emergency Monitoring						Firm responsibility (prime or sub?)) S	Sub
Project number	I	H.009859.5	Owner's	name	me Louisiana Department of Transportation and Development							
Project location	1	Donaldsonville, Louisiana					Owner's Project Manager Jenny Fu					
Owner's addres	ss, p	ohone, email	1201 Capito	l Access R	Road, B	aton Roug	ge, LA / 225	5.379.1321 / Zheng	Zheng	g.Fu@la.go	OV	
Services commenced by this firm (mm/yy) 10/18 To				Total	Total consultant contract cost (\$1,000's)				Unkn	iown		
Services comple	etec	d by this firm	(mm/yy)	08/19	Cost	Cost of consultant services provided by this firm (\$1,000's)			1,000's)	\$175		

The Louisiana Route 70 Sunshine Truss Bridge is a steel cantilever through truss bridge that carries four lanes of traffic over the Mississippi River near Donaldsonville, LA. In October 2018, this structure was struck by a crane barge, significantly damaging a bottom chord member. As part of the Modjeski & Master's inspection response team, BDI quickly deployed a long-distance laser displacement sensor to monitor changes in horizontal displacement of the damage member. Once a monitoring plan was developed and approved by the team, BDI installed 40 strain gages via ropes access along nearby chord members that were used to evaluate the state of the structure before, during and after the replacement of the damaged bottom chord member. These strain gages were used to compute changes in forces and evaluate load distribution, especially during the member replacement.



BDI was onsite for multiple mobilizations throughout the repair portion of the project in order to reinstall or repair sensors as

necessary. A base solar power datalogger was provided and installed near the damaged bottom chord at the Sunshine Truss Bridge. This system included UPS power, datalogger, cell modem, and all additional required wiring to make the system functional. Additionally, it was equipped with a modular wireless datalogging system in the case that more sensors needed to be added. All measured and computed response data was presented on BDI's monitoring website and made available to M&M and DOTD. The monitoring duration was 9 months so that the structural behavior after the repair could be evaluated.

Key Members: Brice Carpenter, Project Engineer

Scopes of Work Relevant to the contract:

- LADOTD PROJECT
- Assessment on Instrumentation Needs and Instrumentation Plan Preparation
- FIELD INSTRUMENTATION INSTALLATION
- DATA ACQUISITION AND COMMUNICATION

INSTRUMENTATION MAINTENANCE AND PROBLEM SOLVING

Firm name	KGC Environm	ental Servi	ices, Inc.	I	Past Perfo	rmance Evalu	ation Discipline	(s)* CE&I	
Project name	roject name US 90 Atchafalaya River Bridge Rehabilitation Firm responsibility (prim							ility (prime or su	ib?) Sub
Project number H.009461 Owner's name LADOTD									
Project location Morgan City, Louisiana Owner's Project Manager Nicholaus Ray									
Owner's address	ss, phone, email	1201 Capi	tol Access	Road, Ba	aton Roug	ge, LA 70802,	337-278-5340,	Nicholaus.Ray@	la.gov
Services commenced by this firm (mm/yy) 04/19 Total consultant contract cost (\$1,000's)						\$2,324			
Services compl	eted by this firm	(mm/yy)	Ongoing	Cost of	consultar	nt services pro	vided by this fir	m (\$1,000's)	\$1,050

100% of the work was completed and performed by our Louisiana office.

The project consisted of the cleaning and painting of the US 90 Atchafalaya River Bridge main span.

KGC's scope was the same as requested by this RFP:

- ✓ Ambient air monitoring for tsp-lead
- ✓ Visual emission and visible accumulations assessments
- ✓ Oversight of storage, labeling, sampling, and transportation of spent material (waste)

generated

✓ Reviewed environmental plans and permits for compliance with applicable federal, state and local regulations.

Members Involved: Kevin Guth, Justin Beitzel, Chris Price and Sammy Phillips



18. Approach and Methodology:

Modjeski and Masters has extensive experience in DOTD fixed and movable bridge design projects and is well versed in the tasks required during both design and construction. Typical design and construction project schedules are shown in the tables below.

<u> </u>
Design Project Task List
Notice To Proceed (NTP) Issued
Design Kickoff Meeting (virtual)
Initial Site Visit (Scoping Inspection)
30 & 60% Design Submissions
Site Visit (Detail Confirmation)
95, 98 & 100% Design Submissions
Bid Support
Bid Analysis
Project Closeout

Construction Project Task List
Notice To Proceed (NTP) Issued
Pre-Construction Meeting
Submittal Review / RFI Response
Site Visit #1 – Shop Inspections (Struct/Mech/Elec)
Site Visits #2 &# 3 – 30 & 60% Progress Inspections</td></tr><tr><td>Site Visits #4 & #5 – Initial Startup Testing & Operational/System Testing</td></tr><tr><td>Site Visits #6 & #7 – Pre-Final (Punch List) & Final Acceptance Inspections</td></tr><tr><td>Review O&M & As-Builts</td></tr><tr><td>Project Closeout</td></tr></tbody></table>

1.1.a. Bridge Design Services (non-emergency): Upon receipt of a task order, our team will submit a proposal delineating sub tasks with hours and direct costs. Upon NTP, we will review the documentation available and arrange a Kickoff meeting (virtual) to discuss the task to make certain we understand the work to be performed and desired outcomes. Invitations will be sent to all stakeholders in the project which typically consist of DOTD Headquarters and District personnel, representatives from the affected Parish/Local Government, USCG / waterway users, as well as any required subconsultants. Personnel will be selected to perform a site visit Scoping Inspection to assess current conditions related to the task order (note that this is normally different than Bridge Inspection item 4). During the Scoping Inspection we have found it very beneficial to include discussions with those that operate and maintain the bridge to get their unique input. A brief report will be developed with any recommended scope adjustments identified. A virtual meeting will be held to review the Scoping Inspection report, recommendations, and finalize the scope of work. Preliminary design will provide basic rehabilitation concepts that are developed to the 30% level. This will be submitted for department review along with a listing of all anticipated drawings for final design. Upon receipt of comments, design calculations and concepts will be fully developed with drawings progressed to the 60% level and submitted for review. We will perform a second site visit at this time to verify design concepts and details will interface properly with existing field conditions. We will request to have DOTD personnel present to walk through the site with the 60% plans. Design details and constructability can be addressed at this time. A cost estimate will be prepared for each submission beginning at 60% plans. Cost estimates will be organized by LADOTD standard pay items. The 95% submission is considered Pre-Final and the 98% submission is considered Final. The 100% submission will include packaging requirements of the Contract Documents ready for bidding. Prior to all submissions, design and production documents will be thoroughly checked in accordance with the M&M QC/QA policy and the LADOTD Bridge Design Section policy on QA/QC. During the bidding phase M&M will provide support and assistance by responding to contractor questions posted in Falcon. If a plan revision is required, M&M will create revised plans per LADOTD standards, marking all plan changes with a revision bug, and update affected items and cost estimate. M&M will perform a bid analysis comparing all contractor bid prices per pay item to the design cost estimate and inform the DTOD project manager of any significant discrepancies. Once the bid analysis is complete, the design project will be closed out and final invoicing will occur. Construction Related Engineering Services (CRES)

Page 188 of 208 Prime consultant name: Modjeski and Masters, Inc.

would be separately negotiated. The typical format of fixed and movable bridge CRES was provided previously in our Construction Project Task List.

- 1.1.b. Bridge Design Services (emergency): These situations can occur due to natural disasters or component failure from everyday use and environmental exposure. When a movable bridge is inoperable in any position or if a fixed bridge undergoes an unplanned event (vessel collision, fire, hurricane damage, etc), we understand that the owner needs immediate assistance. M&M will immediately dispatch local fixed and movable bridge engineers to the site. Simultaneously, we will work the problem over the phone or video chat with the owner. If the problem is not resolved prior to arrival on-site, we will assess the field conditions and evaluate if a temporary solution is safe and feasible which could include drifting a bridge closed, a temporary operating mode, safely bypassing a control system interlock (i.e., false limit switch indication), etc. After the emergency is resolved, design services to restore reliable operation resort back to non-emergency (1.1.a).
- 1.2. Sampling, Instrumentation, and NDT: SAMPLING: On occasion, data on bridge component properties is not known and requires sampling. Commonly sampled items include air, asbestos, steel, concrete, lubricants, and paint (adhesion and lead). We have teamed with Bridge Diagnostics, Inc. to perform any required Sampling. INSTRUMENTATION: M&M has extensive in-house Instrumentation capabilities including: strain gaging (structural and bridge balancing), accelerometers, high-precision displacement, angle/tilt meters, thermal scanning, and current/power/resistance testing. For diagnosing operational characteristics of movable bridges, a very effective tool is dynamic strain gaging of the machinery. It is like an EKG of the movable bridge that can be incredibly beneficial to our experienced personnel that know how to interpret the data. Information that can be obtained includes motor loading over time, acceleration and deceleration characteristics, braking loads, system friction, cyclical loading (sometimes due to bent shafting), starting loads (related to static friction), torque limiting (or lack thereof) of the drive motors/control system, seating loads, load sharing of main pinions (effectiveness of differential), and imbalance condition. We have performed dynamic strain gaging on bridges for over 30 years on hundreds of movable bridges. M&M also has decades of experience structural monitoring, including targeted, long-term (health monitoring), and load distribution (usually for load rating). We maintain all strain gages and testing equipment in-house so we can utilize any of the mentioned testing methods at any time. Furthermore, we maintain several instrumentation data collection systems, including wireless systems. NDT: M&M regularly utilizes several NDT methodologies, including ultrasonic testing (6 UT Certified persons), mag-particle testing, thickness (d-meters), and dye-penetrant. All UT testing equipment is maintained in-house.
- **2. Geotechnical:** Fugro will conduct soil borings and subsequent laboratory testing in general accordance with LADOTD 2016 Standard Specifications for Roads and Bridges Manual and applicable Geotechnical Guidelines. We anticipate this including:
 - A detailed site visit to evaluate accessibility of proposed exploration locations and mark with flagging for one-call clearance.
 - Identify all exploration locations in the field using a handheld GPS or similar with accuracy equal to or less than ten (10) feet.
 - Borings will be sampled continuously from existing grade to a depth of 16-ft, then at 5-ft intervals to 100-ft or completion whichever comes first. Data will be logged in general accordance with the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedures)* (ASTM D2488).
 - Cohesive soils will be sampled using a thin-wall tube sampler in general accordance with the *Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes* (ASTM D1587). Minimum 3 inches and sample length will be 24-inches.

- Granular soils will be sampled using a split-spoon sampler in general accordance with the *Standard Test Method for Standard Penetration Test and Split-Barrel Sampling of Soils* (ASTM D1586). Split-spoon samples will be collected for 18-inch sample length unless SPT indicates refusal to be defined as greater than 25 blows per 6 inches or 100 total blows per 18 inches.
- Estimate cohesive soil shear strengths in the field using a pocket penetrometer and/or Torvane.
- Record SPT N-values in granular soils.
- Measure short-term depth-to-water in open boreholes during drilling.
- Backfill the borings with cement-bentonite grout upon completion of drilling and sampling activities.
- Undisturbed samples will be capped and sealed to preserve natural moisture conditions and will then transported to our lab for extrusion and laboratory testing.

The laboratory testing program will be developed to establish adequate information on soil strength and classification parameters to facilitate our analyses. The actual laboratory testing to be performed will be developed once the field logs have been reviewed. At this time, we anticipate performing the following laboratory work:

- Soil classification tests, including but not limited to, natural moisture contents & unit weights (ASTM D2216), liquid and plastic limits (ASTM D4318), grain-size analyses (ASTM D1140/D6913/D422), and organic content (ASTM D2974) (if necessary);
- Strength tests including unconsolidated-undrained triaxial compression tests (ASTM D2850) and unconfined compression tests (ASTM D2166). 75% of cohesive samples will be tested for strength, index properties, and classification in accordance with Louisiana DOTD Geotechnical Guidelines. Grain size testing will be conducted at a rate sufficient to classify soils.
- One-dimensional consolidation tests (ASTM D2435), if necessary.
- 3. Road Design and Traffic: M&M will perform preliminary and final roadway design with support provided as needed from Meyer Engineers, and/or Fenstermaker. The projects will be designed to PRR, 3R, or new construction standards following AASHTO and LADOTD requirements. Services to be provided may include but are not limited to roadway horizontal and vertical alignment, pavement geometrics, drainage design, alternatives analysis as required, erosion control, ADA design compliance, guardrail layout, utility coordination, and quantity calculations. Temporary traffic control plans will be developed to ensure traffic safety for workers and roadway users during construction activities. Early in the design process, the design criteria to use for a project will be developed, with input from LADOTD, prior to initiating design activities. Roadway Engineers will assist in managing the flow of information between survey, roadway, utility, and right-of-way design. Roadway engineers` will also work in conjunction with the bridge engineer of record and other disciplines to ensure that all issues relating to the project are evaluated successfully. Plan preparation will adhere to LADOTD's drafting and software standards. Bentley Inroads and MicroStation software will be used for roadway design. ProjectWise will be used as the document management software for plan development to ensure integration with LADOTD and foster collaboration between different disciplines. Any required traffic studies and/or analysis will be conducted in accordance with the Traffic Engineering Process and Report (TEPR) guidelines. Traffic data collection and analysis will be used to identify operational and safety needs of the project and to develop and evaluate the effectiveness of potential alternatives. The consultant team is experienced with a wide range of traffic study applications and preferred tools including HCS, SIDRA, and Synchro. Our team will work closely with LADOTD to develop a traffic scope that meetings the specific needs of the project and facilitates a data-driven approach to alternative development and evaluation. Similarly, the consultant team is experienced with a wide range of traffic design applications including permanent signing, signal design, and permanent striping. Traffic design services will be conducted in accordance with associated state and federal guidelines including the LADOTD

Prime consultant name: Modjeski and Masters, Inc.

Sign Manual, LADOTD Signal Manual, LADOTD Standard and Special Details, Manual on Uniform Traffic Control and Devices, etc. The consultant team will develop a Transportation Management Plans (TMP) as applicable to each task order in accordance with EDSM VI.1.1.8. The level of TMP will be determined based on the project's location and impact to the roadway network. Determining the TMP level prior to project scoping is imperative to ensuring that all TMP requirements are included in the scope and that all necessary traffic data is collected to support any required analysis. The Consultant Team will coordinate closely with the LADOTD DTOE and District Staff to ensure a mutual understanding of local needs and that proposed mitigation measures are appropriate for the area.

- **4. Surveying and Title Work Services:** The Consultant Team will call upon Fenstermaker for any surveying needs including topographic survey, 3D laser scanning, underwater acoustical imaging and property and boundary surveying for successful completion of the project.
- 5. Bridge Inspection: Fixed and Movable Bridge inspections will include an overall Team Leader that will be responsible for inter-discipline coordination and interface with DOTD. Inspection will typically require multiple bridge operations so the Team Leader will coordination with local agencies to minimize traffic interruptions. For safety, M&M will submit a "Lock-out / Tag-out" procedure customized for each movable bridge prior to arrival on site. The procedure will be reviewed by all personnel at the bridge before work each day and again if there is a change in the bridge operator. Depending on the type of inspection, representative mechanical components may require disassembly for inspection which could impact operational availability for marine traffic. Any such projected marine interruptions will be coordinated with the USCG. To minimize traffic and marine impacts, M&M can implement: technical (rope) access, use of "bucket boat", night-time or off-peak hrs, or increase the number of personnel. All inspections shall be in accordance with the FHWA BIRM and/or AASHTO Movable Bridge Inspection Manual with the type (level) of inspection desired by DOTD. Structural inspections shall be NBIS In-Depth and may include element-level and coating system inspection by one of our certified NACE inspectors. Any required underwater inspection shall be performed by team member Moffatt & Nichol. A detailed inspection report will be submitted with condition assessment, photos, sampling/testing reports, repair/rehabilitation/replacement recommendations with ballpark costs.
- 6. Environmental Permitting: Fenstermaker will perform any required Environmental services. For each task order, the Consultant Team's ecologists and environmental professionals will complete a desktop review of available GIS databases to identify previously recorded environmental resources in the project area, including but not limited to scenic streams, wetlands and other waters of the U.S., navigable waters, levees, protected species habitat, and cultural resources. Field investigations will then be initiated to delineate the extent of environmental resources present within project limits and obtain GPS locations for inclusion in design plans. Environmental staff will then work with the design team to identify impacts to environmental resources and associated permitting requirements based on preliminary design. Our first priority will be to design the project to avoid and minimize resource impacts to the maximum extent practicable while still meeting the project need and purpose in a cost-effective manner. For complex project, pre-application meetings will be scheduled with lead and participating agencies to identify all project concerns and required information early in plan development and ensure all concerns are addressed and all required information is provided in permit applications. It has been our experience that this approach can streamline the permit process by reducing agency comments and associated delays. Once the project has progressed to final design and required permits have been identified, our environmental team will work with design to prepare necessary permitting exhibits and supporting information required for complete permit applications. Upon permit application submittal, we will continue to coordinate with resource agencies throughout the review process.

Page 191 of 208 Prime consultant name: Modjeski and Masters, Inc.

19. Workload:

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

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

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually. List only the portion of the fees attributable to firms on the team.

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
		S.P. 700-66-	Bridge Scour Analysis	
		0461 H.005358.5	Statewide	
		S.P. 700-66- 0486	Engineering Services for Bridge Preservation Retainer 440000668	
			Statewide	
	Bridge H.009479		West Larose Vertical Lift Bridge Rehabilitation - Supplement No. 2	\$6,352
Modjeski and Masters, Inc.	Bridge	JN 3144	Expert witness services in bridge design, construction, repair and forensic analysis	\$274,617
·		Retainer	Engineering Services for Bridge Preservation Retainer	
		Contract	Statewide	
		4400002538		
	Bridge	H.010882.5	LA 18: 4th Street Bridge Rehabilitation (Supplement No. 2)	\$44,810
			Construction Services	
			Jefferson Parish	
	Bridge	H.010882.6	4th Street Bridge Rehabilitation Paint (Supplement No. 3)	\$7,400
			Route LA 18	

	Other	H.003014.6	I-10: LA 347 to Atchafalaya Fldwy Bridge (Const. Svcs.)	\$16,430
		Retainer	Construction Engineering and Inspection with Painting	
		Contract 4400005395	Statewide	
	CE&I/OV	H.011705.6	US 11 Lake Pontchartrain Bridge Rehabilitation - Phase 2	\$8,238
	CE&I/OV	H.011494.6	US 90 Atchafalaya River Bridge Rehabilitation	\$101,223
		Retainer	Complex Bridge Rating (on-system trusses and other	
		Contract 4400004921	complex bridges) Statewide	
	Bridge	H.009859.5	Ten Truss Bridges - Load Rating and Evaluation	\$63,337
	Bridge	H.009859.5	Sunshine Bridge Load Rating after Collision Repair - Task Order 4	\$13,605
	Bridge	H.012485.1	Load Rating of 354 Off-System Bridges - Task Order 6	\$0
	Bridge	H.009859.5	Load Rating of 14 Complex Bridges	\$314,038
		Retainer	Retainer Contract for Bridge Preservation	
Modjeski and		Contract 4400005774	Statewide	
Masters, Inc.	Bridge	H.001234.5	Port Allen Canal Bridge	\$64,231
	Other	H.010601.6	I-10: LA 328 to LA 347 - CRES	\$47,334
	Other	H.011137.5	I-12: LA 1077 to US 10 Roadway and Navigation Lighting	\$38,177
		IDIQ Contract	ID/IQ for Bridge Preservation	
		4400012382	Statewide	
	Bridge	H.011705.6	US 11: Lake Pontchartrain Bridge Rehab Phase 2 (HBI)	\$3,015
	Bridge	H.012343.6-1	LA 70: Mississippi River Bridge Phase III	\$25,598
	Bridge	H.013179.6	LA 1064: Little Natalbany River Bridge Replacement - Construction Svcs.	\$14,727
	Bridge	H.013183.6	LA 16: Tangipahoa River Bridge Replacement - Construction Svcs.	\$33,963
	Bridge	H.013193.6	US 61: Thompson Creek Bridge - Construction Svcs. Rehabilitation and Replacement	\$804
	Bridge	H.013829.5	I-10 and LA 47: Overhead Sign Upgrade	\$0
	Bridge	Task Order 2	LG Bridge Design Example and Parametric Studies	\$74,644
	Bridge	H.012343.6	LA 70: Mississippi River Bridge Phase III – Legal	\$13,830

	Bridge	H.000303.6	Danzinger Bridge Rating and Repair	\$54,259
	Bridge	H.009859.5	Strengthening of US 90 Bridge 201810	\$81,310
	Bridge	H.003144.6-2	Luling Bridge Cable Stay Replacement Project	\$463,624
	Other	H.011235	Subconsultant: I-49 South at Verot School Road - Lighting	\$32,989
		H.004791	Subconsultant: Belle Chasse B7T Replacement P3 - Electrical	\$52,786
			and Structural	
		IDIQ Contract	ID/IQ for Bridge Preservation	
		4400017263	Statewide	
	Bridge	H.010603.6	I-20 Mississippi River Bridge at Vicksburg - Monitoring	\$11,093
	Other	H.013866.6	I-12: LA21 to US190 Navigation & Roadway Lighting	\$74,626
	Other	H.003184.6	I-10: Texas State Line - E. of Coone Gully - CRES	\$71,589
	Bridge	H.011485.6	LA336-1: Bayou Teche Bridge Rehabiliation	\$119,553
	Other	H.012889.5	I-20 Rehabilitation - Roadway Lighting (Pines Road to I-220)	\$120,034
	Bridge	H.000263.5	Chef Menteur Pass Bridge & Approach	\$27,466
Modjeski and	Bridge	H.011965.5	LA 47: IWGO Bridge Rehabilitation (HBI)	\$15
Masters, Inc.			LA 47: Over the Intercoastal Waterway Gulf Outlet (IWGO)	
Masters, Inc.	Bridge	H.009859.5	Prien Lake Bridge Structural Rating	\$18,639
	Bridge	H.004420.5	Barataria Preliminary Fender Design	\$2,120
	Bridge	H.014280.5	Bayou Ramos Bridge Girder Study	\$46,373
	Bridge	H.014673.5	I-49 US 165 Debonded PPC Girder Rehab	\$178,849
	Bridge	H.014587	LA 302: Kerner Ferry Bridge Repairs PH 2 - Constr Support	\$91,090
	Bridge	H.013946.6	Sunshine Bridge Fender Construction - 2021	\$77,934
	Bridge	H.009859.5-2	Load Rating of two existing bridges	\$211,691
	Bridge	H.004420.5	Bayou Barataria Bridge at Jean Lafitte - Supp 1	\$681
	Bridge	H.014406.6	Houma Navigation Canal Swing Bridge - Electrical Repair	\$27,968
			CRED	
	Bridge	H.004100	Subconsultant: LA 415 to Essen Lane on I-10 and I-12	\$1,793,611
			CMAR RCP Plans	
	Bridge	H.001234.6	LA 1: Port Allen Canal Bridge Replacement - Phase 1 CRES	\$274,676
		IDIQ Contract	ID/IQ for Electrical Services	
		4400020063	Statewide	
	Bridge	H.014212.6	I-10 Atchafalaya Bridge Navigational Lights Repl	\$87,288

Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	\$4,959
	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	\$52,436
	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	\$228,799
	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	\$61,450
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$21,999
	Traffic	H.012030.5	KCS RR Overpasses HBI	\$28,026
Marrero, Couvillon & Associates	Bridge	H.011705.6	US 11: Lake Pontchartrain Bridge Rehab – CA Services Orleans and St. Tammany Parishes	\$9,276
Fugro USA	Environmental	440006176	IDIQ Contract for Corrective Action Plan Development and Implementation (Most Recent Task Order Complete)	\$0
Land, Inc.	Geotechnical	H.012032.5	LA 2 Colewa Bayou and Delmar Bayou Bridges	\$111,122.83
	Geotechnical	H.012071.5	US 51: Yellow Water Bridge	\$20,984.38
Wiss, Janney,	Bridge	Contract 4400009424 H.000303.6	Contract 4400009424, Task Order No. H.000303.6, Danziger Bridge Repair	\$38,315
	Bridge	Contract 440009424, Task Order 5	Contract 4400009424, Task Order No. 5, Elastomeric Bearing Pad Testing	\$44,646
Elstner	Bridge	H.014280	Contract No. 4400017263, H.014280 Bayou Ramos	\$142,599
Associates, Inc.	Bridge	H.014673	I-49, US 165: Debonded PPC Girder Rehab I-49/US165, Rapides Parish	\$24,498
	Bridge	H.012617.6	I-310: I-10 to US 90, Hale Boggs Memorial (Luling) Bridge, Deck Overlay Repair Consultation, Instrumentation Services	\$221,747
	Bridge	Contract 4400001762, H.014899.6	I-10/310 Bonnet Carré Fire Damage Repair	\$37,618

Moffatt & Nichol	Bridge	H.009730.5	In-Depth Inspection of Complex Bridges, Task Order 4	\$252,121
	Bridge	H.009730.5	In-Depth Inspection of Complex Bridges, Task Order 5	\$654,279
	Bridge	H.009730.5	IDIQ Contract for Underwater Bridge Inspection, Statewide	\$726,212
	Bridge	H.011331.5	LADOTD Inventory and Inspection of Sign Trusses	\$420,203
	Bridge	H.009730.5	LADOTD In-Depth Bridge Inspection, Task Order 3	\$473,944
	Data Collection	H.971294.1	LADOTD RIMS	\$79,996
	CE&I/OV	H.001498	LA 24 & LA 316 Company Canal Bridge	\$377,489
Meyer	CE&I/OV	H.007331.6	Pakenham Drive (LA 46 – LA 39)	\$4,783
Engineers,	CE&I/OV	H.007175	Lapalco (Victory – Westwood)	\$77,014
Ltd.	Road	H.004727	Howard Avenue Extension (Loyola Avenue – LaSalle Street)	\$5,693
	CE&I/OV	H.014048	S.Tangipahoa Roads Pavement Rehab	\$707,683
	Data	Contract No.	IDIQ Contract for Louisiana Watershed Initiative (LWI)	\$1,486,566
	Collection,	4400017090	Region 4 (Task Order No. 2)	
	Planning,		Acadia, Allen, Beauregard, Calcasieu, Cameron, Sabine, and	
	Survey		Vernon Parishes, LA	
I	Data	Contract No.	IDIQ Contract for Louisiana Watershed Initiative (LWI)	\$3,580,753
	Collection,	4400017090	Region 4 (Task Order No. 3)	
C II	Planning,		Allen, Beauregard, Calcasieu, Cameron, DeSoto,	
С. Н.	Survey		Natchitoches, and Vernon Parishes, LA	
Fenstermaker	Survey	Contract No.	IDIQ Contract for Louisiana Watershed Initiative (LWI)	\$91,206
& Associates,		4400017091	Region 5 (Task Order No. 2)	
L.L.C.			Acadia and Evangeline Parishes, LA	
	Survey	Contract No.	IDIQ Contract for Louisiana Watershed Initiative (LWI)	\$153,532
		4400017092	Region 6 (Task Order No. 2)	
			Terrebonne Parish, LA	
	Survey	Contract No.	IDIQ Contract for Louisiana Watershed Initiative (LWI)	\$1,050,046
		400017092	Region 6 (Task Order No. 3)	
			Assumption Parish, LA	

	Road	Contract No.	LA 182 (Univ) @ LA 723 (Renaud) Roundabout	\$323,697
		4400020291	Lafayette Parish, LA	
		S. P. No.		
		H.012869		
	Road	ContractNo.	I-49 South @ Verot School Road	\$2,450
С. Н.		4400005673	Lafayette Parish, LA	
Fenstermaker		S.P. No.		
& Associates,		H.0011235		
L.L.C.	Road	Contract No.	St. Mary Street Sidewalks	\$164.347
		4400020016	Lafayette Parish, LA	
		S.P. No.		
		H.011833.5		
	Planning	Contract No.	Discovery NFIP CTP	\$19,974
		4400020960	Statewide	
	Bridge	H.009730.5 44	IDIQ Non Destructive Evaluation of Structures via SounDAR	
		17163	Whiskey Bay and Pilot Channel – Task Order 10	\$47,869.90
	Bridge	H.014703.5 44-	IDIQ for Non-Destructive Evaluation of Structures Calcasieu	
		17163	Parish – Task Order 9	\$24.50
	Bridge		IDIQ I-10 for Non Destructive Evaluation of Structures	
		H.009730.5 44-	Atchafalaya Floodway and I-10 over Whiskey Bay Pilot	
		17163	Channel Bridge decks – Task Order 8	\$69,198.38
Bridge	Bridge	H.012280.1 44-	IDIQ for testing of Unknown Foundations, Statewide – Task	
Diagnostics,		09224	Order 3 – 1802005	\$0.00
Inc.	Bridge	H.009730.5 44-	Retainer for Non Destructive Evaluation of Structures Task	
		17163	Order 1 General Services BDI1904004	\$3,679.00
	Bridge	H.009730.5 44-	Retainer for Non Destructive Evaluation of Structures Task	
		17163	Order 7 Bonnet Carre Spillway 2006002	\$94,864.07
	Bridge	H.009859.5 44-	Bonnet Carre & Bayou Ramos Monitoring System	
		02791	Maintenance	\$0.00
	Bridge	H.010603.6 44-	Mississippi Bridge at Vicksburg GPS Monitoring – 150901	\$2,933.50
		02538		

Bridge	Bridge	H.012485.1 44-	IDIQ for Bridge Load Rating Services Statewide	\$0.00
Diagnostics,		10099		
Inc.				
KGC	CE&I/ OV	H.009461	US 90 Atchafalaya River Bridge Rehabilitation	\$ 100,000.00
Environmental				
Services Inc.				

(Add rows as needed)

DO NOT SUM

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

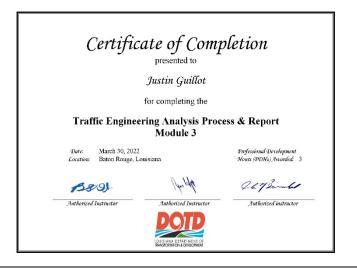
^{**} Round to the nearest dollar. **<u>Do not</u>** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. Certifications/Licenses:

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











Certificate of Completion presented to Brin Ferlito for completing the Traffic Engineering Analysis Process & Report Module 3 Dute: September 10, 2018 Baton Rouge, Louisiana Professional Development Hours (POHE) Awarded: 3 Authorized Instructor Authorized Instructor Authorized Instructor Authorized Instructor







Certificate of Completion Prasanth Malisetty for completing the Traffic Engineering Analysis Process & Report July 30, 2018 Professional Development Location: Baton Rouge, Louisiana

Hours (PDHs) Awarded: 2,5









Certificate of Completion

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report Module 2

August 6, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3









Certificate of Completion

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report Module 3

October 29, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3







Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 1

November 5, 2018 Date: Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 2









Certificate of Completion

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report

November 26, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3.5





Certificate of Completion

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report

December 3, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3





Certificate of Completion

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 1

Location: Baton Rouge, Louisiana

July 30, 2018

Professional Development Hours (PDHs) Awarded: 2.5





Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 2

August 6, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3









Certificate of Completion

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 3

October 29, 2018 Date: Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3





Certificate of Completion

presented to

Dax Douet

for completing the

Traffic Engineering Analysis Process & Report

October 1, 2018 Date Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 2.5





Certificate of Completion

presented to

Dax Douet

for completing the

Traffic Engineering Analysis Process & Report Module 2

October 10, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3.5



Certificate of Completion

presented to

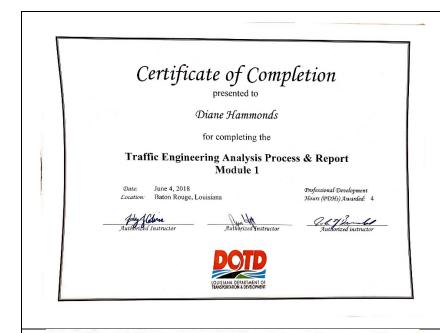
Dax Douet

for completing the

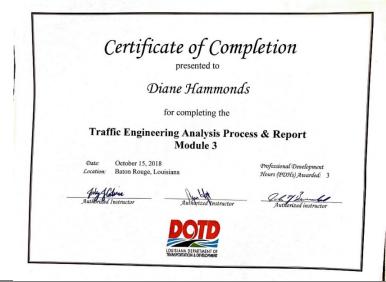
Traffic Engineering Analysis Process & Report Module 3

January 15, 2019 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3









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

Page 206 of 208 Prime consultant name: Modjeski and Masters, Inc.

CONTRACT NO. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, 4400024189 IDIQ CONTRACTS FOR BRIDGE PRESERVATION STATEWIDE

QUALITY CONTROL / QUALITY ASSURANCE PLAN FOR BRIDGE DESIGN

Prepared For:



Prepared By:



May 10, 2022

M&M QUALITY CONTROL / QUALITY ASSURANCE PLAN

GENERAL PROJECT QC/QA POLICY **DEFINITIONS ROLES AND RESPONSIBILITY** QC/QA PROCESS CONTROLS **SUB-CONSULTANTS ELECTRONIC DELIVERABLES IDENTIFYING NON-CONFORMING WORK SCHEDULES / DELIVERY DATES / BUDGETS ADMINISTRATIVE QUALITY MANGEMENT PROCEDURES DOCUMENT CONTROL TECHNICAL QUALITY MANAGEMENT PROCEDURES** INTERNAL QUALITY AUDITING **EXTERNAL AUDITS** QC/QA CERTIFICATION **ATTACHMENTS 1 - 11**

GENERAL

Quality is obtained when design and/or rating calculations, plans, specifications and reports, correspondence, invoices and oral communication, related to a particular project, are delivered to the owner in an accurate, error-free, professional, and timely manner, and in a presentation consistent with the owner's requirements.

Modjeski and Masters Quality Management Plan relates to both the technical and administrative aspects of the full engineering service life cycle of a project, including proposal preparation, staffing, design activities, field activities, internal and external communication, project review, field operations, including inspection and construction observation, and document storage. The plan is applicable to all engineering services offered by the firm including: bridge design, bridge rating, highway design, bridge rehabilitation, bridge inspection, mechanical design, electrical design, instrumentation, geotechnical investigations/design, construction consultation, inspection of construction, research and code development. Checklists and forms are often developed to monitor special needs of the owner and/or a specific engineering activity.

PROJECT

M&M will provide the following scope of engineering services and will perform task orders for individual services for specialized work.

1. Bridge Design Services

1.1 General Bridge Engineering Services

Provide bridge engineering services for fixed and movable bridges. Bridge project types may include, but are not limited to, new bridges, bridge replacements, bridge rehabilitation, bridge preventive maintenance and repair, and roadway lighting. Bridge engineering services include, but are not limited to, structural, mechanical, electrical, and architectural feasibility, design, and plan development and the following:

- Bridge/structural inspection and evaluation of existing bridges or other structures (sign trusses, fender systems, etc.). Associated reports shall be provided as required
- As-designed, as-built, and condition bridge ratings
- Design peer review of developed plans or conceptual designs to verify concept, constructability, and accuracy of designs along with associated reports, conclusions, calculations, and recommendations as needed
- Construction engineering support including construction drawing review, shop drawing review, request for information support, contractor proposals, etc.

1.2 Sampling, Instrumentation, and Non-destructive Testing

Provide sampling, instrumentation, and non-destructive testing services. These services may include, but are not limited to, collection of samples of materials from existing structures for evaluation, diagnostic and/or proof testing to determine specific structure response characteristics and/or to determine the causation of observed distresses, instrumentation, and the following:

Sampling

- Collection of samples
- Evaluation of protective coating material samples for determination of compatibility with proposed coatings, analysis for heavy metals, proper procedures for treatment, handling, disposal of waste, etc.

Instrumentation

- Design of instrumentation plans. Installation of instrumentation, data acquisition, analysis, and evaluation of structure based on instrumentation plan
- Provision and installation of instrumentation, including all materials required to mount the instrumentation
- Provision of data acquisition systems, software updates, power supplies, communication to data servers, data hosting services, maintenance, and data access to DOTD

- Calibration services for instrumentation systems and sensors
- Maintenance services to repair and/or replace sensors, data acquisition systems, and power supplies
- Analysis and evaluation of accumulated data and final assessments and development of corresponding reports based on data and associated calculations

Non-destructive Testing

- Proof loading
- Estimation of concrete strength
- Assessment of reinforcement condition, cover, location, and diameter
- Detection of cracks, voids, and delamination in concrete
- Assessment of steel member condition

2. Geotechnical Services

Provide all geotechnical services necessary to perform geotechnical investigations, analysis, and design. These services may include, but are not limited to, the following:

- Geotechnical field investigations including both shallow and deep soil borings
- Geotechnical laboratory testing and analysis
- Preparation of soil boring logs
- Geotechnical analysis and design based on obtained data or data furnished by the DOTD
- Construction related engineering services

3. Road Design and Traffic Services

Provide all services necessary to perform hydraulic, road, and traffic investigation, analysis, and design. These services may include, but are not limited to, the following:

- Preliminary and final roadway design and plan development
- Hydraulic analysis and design
- Traffic engineering, traffic control design, and data collection
- Transportation Management Plan (TMP) development

4. Surveying and Title Work Services

Provide all surveying and title work services necessary to perform topographic, and boundary surveying, develop right-of-way maps, and provide other existing site data. These services may include, but are not limited to, the following:

- Topographic surveying, 3D laser scanning, and underwater acoustical imaging including both multi-beam and side scan hydrographic surveys
- Property and boundary surveying
- Property title work including title research and reports
- Construction related surveying services

5. Bridge Inspection Services

Provide all services required to perform Statewide NBIS In-Depth Inspections of complex structures. These services may include, but are not limited to, the following:

- Detailed in-depth field inspection on all bridge components, including an element level inspection. An NBIS underwater bridge inspection may be required for submerged elements.
- Assessment of the coating system, conducted by a certified SSPC Protective Coating Specialist or a certified NACE Bridge Coating Inspector
- In-depth inspection report outlining recommended repairs, rehabilitation, and corrections.

6. Environmental and Permitting Services

Provide all environmental and permitting services necessary to obtain project permits. Required permits may include, but are not limited to, the following:

- Coastal Use permits (CUP) from the LA Department of Natural Resources
- Wetland permits (404 and Nationwide) and Section 10 permits from the US Army Corps of Engineers
- Water Quality Certification from the LA Department of Environmental Quality
- Scenic Stream permits from the LA Department of Wildlife and Fisheries
- Bridge permits from the US Coast Guard
- Levee permits from various levee boards

All work will be performed in accordance with all applicable DOTD policies, procedures, and manuals. Design criteria will be developed and submitted to the Bridge Task Manger for review and approval prior to proceeding with design.

Project submittals, associated schedule, and format will be established in each Task Order. At minimum, all bridge plan submittals will be submitted in pdf format and the 100% signed final plans will be submitted both in full size paper and in pdf format. Design and rating calculations will be submitted in pdf format no later than 30 days after the 100% final plan submittal.

QC/QA POLICY

Modjeski and Masters' Team QC/QA policy is to meet or exceed the QC/QA requirements of the following documents, in addition to those described in this document.

- 1. AASHTO Standards
- 2. AASHTO A Policy on Geometric Design of Highways and Streets
- 3. AASHTO LRFD Bridge Design Specifications

- 4. AASHTO LRFD Moveable Highway Bridge Design Specifications
- 5. AASHTO Manual for Bridge Evaluation
- 6. AASHTO Manual for Maintenance Inspection for Bridges
- 7. AASHTO Roadside Design Guide
- 8. AASHTO Standard Specifications for Structural Supports of Highway Signs, Luminaires, and Traffic Signals
- 9. AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing
- 10. AREMA Manual for Railway Engineering
- 11. ASTM Standards
- 12. DOTD "A Guide to Constructing, Operating, and Maintaining Highway Lighting Systems"
- 13. DOTD Bridge Design and Evaluation Manual (BDEM)
- 14. DOTD Bridge Design Technical Memoranda
- 15. DOTD Complete Streets
- 16. DOTD Construction Contract Administration Manual
- 17. DOTD Consultant Contract Services Manual
- 18. DOTD Geotechnical Engineering Services Document
- 19. DOTD Guidelines for Bridge Rating and Evaluation
- 20. DOTD Hydraulics Manual
- 21. DOTD Location and Survey Manual
- 22. DOTD Addendum "A" to the Location & Survey Manual
- 23. DOTD Louisiana Standard Specifications for Roads and Bridges
- 24. DOTD Maintenance Directives
- 25. DOTD Materials Sampling Manual
- 26. DOTD Minimum Design Guidelines
- 27. DOTD Off-System Highway Bridge Program Guidelines
- 28. DOTD Roadway Design Procedures and Details Manual
- 29. DOTD Stage 1 Planning/Environmental Manual of Standard Practice
- 30. DOTD Testing Procedures Manual
- 31. DOTD Traffic Engineering Manual
- 32. DOTD Traffic Engineering Process and Report
- 33. DOTD Traffic Signal Manual
- 34. e-CFR Electronic Code of Federal Regulations (all applicable)
- 35. CFR 23 National Bridge Inspection Standard
- 36. FHWA Bridge Inspector's Reference Manual (BIRM)
- 37. FHWA Inspection of Fracture Critical Bridge Members
- 38. FHWA-IF-09-014 Load Rating Guidance and Examples for Bolted and Riveted Gusset Plates in Truss Bridges, February 2009
- 39. FHWA Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD
- 40. National Electrical Safety Code (NESC)
- 41. NFPA 70 National Electrical Code (NEC)
- 42. NEPA National Environmental Policy Act

QC/QA requirements for bridge design and preparation of plans and specifications are described in detail in the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA, and these policies will be fully adhered to by all team members. This document is consistent with and complements the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA.

A Quality Assurance Certification will be provided at the completion of each task using the Department's QC/QA Certification Form (LADOTD BDEM Chapter 3, Appendix D) and Certification Form (LADOTD BDEM Chapter 3, Appendix I). See Attachments 5 and 3, respectively.

DEFINITIONS

Quality Control (QC): A process of applying systematic procedures to ensure accuracy and consistency during electrical design calculation, electrical inspections, analyses and ratings and their documentations. It includes procedures for checking the accuracy of the calculations and consistency of design drawings, detecting and correcting design omissions and errors before the drawings are finalized, and verifying the design criteria have adequately been applied, and any past changes to the electrical system have been considered. QC is to be applied to all stages of the electrical analysis, design, including plan and document reviews related inspections and instrumentations. QC is to be applied also to verifying the specifications for the electrical service equipment are adequate for the service and operations loads.

<u>Quality Assurance (QA)</u>: A systematic process aimed to ensure that the quality control process was followed during the development of electrical design plans, specifications, inspection and instrumentation reports. It includes procedures of reviewing the work to ensure that quality control is in place and effective in preventing mistakes and providing consistency in the development of electrical design plans, specifications and reports.

<u>Supervisor or Team Leader</u>: Project Manager or task assignee, responsible for overseeing the project and the personnel assigned to the project.

<u>Design Engineer</u>: Engineer, licensed by the State of Louisiana as a professional engineer or certified as an engineering intern, directly responsible for the development of design calculations, reports, drawings and other related documents with a level of technical skills and experience commensurate with the complexity of the subject structure.

<u>Detailer:</u> Engineer or technician directly responsible for the creation and development of CAD drawings.

<u>Design Checker</u>: Engineer responsible for performing a full technical review of the electrical analyses, design calculations, reports, drawings, specifications and cost estimate with a level of technical skills and experience commensurate with the complexity of the subject structure. If

the information being checked was developed by an engineering intern, the design checker shall be an engineer licenses by the State of Louisiana as a professional engineer.

<u>Detail Checker:</u> Engineer or technician responsible for performing a full review of the CAD drawings ensuring that the drawings are in accordance with the design information and CAD standards.

<u>Reviewer</u>: Engineer, licensed by the State of Louisiana as a professional engineer, responsible for performing QA procedures for assuring that QA procedures have been performed as outlined in this policy and in accordance with LADOTD Bridge Design practices, policies and procedures. The Reviewer must have substantial technical skills and experience in the design of similar electrical systems and be independent of production.

<u>Engineer of Record</u>: The Engineer of Record, licensed by the State of Louisiana as a professional engineer, is responsible for the design shown on the plans and/or other deliverables and whose seal appears on the title sheet of the plans and/or deliverables. He typically ensures that the QC/QA certifications are signed by all parties, all design calculations and reports are included, and the names of all personnel are correctly shown.

<u>Independent Technical Reviewer</u>: Engineer who completes an independent review of the design calculations and is part of the consultant team. Independent Technical Reviewer must have experience reviewing tasks that meet or exceed those of the designer and or checker.

<u>Peer Review</u>: Engineering group with no prior involvement in the project, performing an independent check of the design calculations and results. Peer reviewers may not be employed by the same consultant.

RESPONSIBILITY AND AUTHORITY

Modjeski and Masters (M&M), as the Prime Consultant, will be fully responsible for QC/QA of their work as well as the work of all Sub-consultants. All project submittals will include a QC/QA certification that the submittals meet the requirements of the QC/QA plan document. The LADOTD shall not perform QC/QA of the consultant's work and the responsibilities of the LADOTD for consultant projects shall be limited to those listed in the LADOTD Bridge Design and Evaluation Manual.

The Principal-In-Charge (PIC) and Project Manager (PM) assigned to the Retainer will be responsible to ensure that the requirements of this QC/QA Plan are met by all members of the M&M Team. M&M will be assisted by ten (10) Sub-consultants for this work:

Sub-Consultant	Services Provided
VECTURA CONSULTING SERVICES. LLC	Traffic Services
MARRENO COUVILION & ASSOCIATES Engineering & Construction	Mechanical Design, Architectural
-fugro	Geotechnical Services
WJE Wiss, Janney, Elstner Associates, Inc.	Electrical Design, Mechanical Design, Structural Design, Sampling, Instrumentation and Non-Destructive Testing
moffatt & nichol	Underwater Bridge Inspection
Meyer Engineers, Ltd.	Architectural, Road & Drainage Design
Bridge Diagnostics, Inc. (BDI)	Sampling, Instrumentation and Non-Destructive Testing
FENSTERMAKER	Traffic Services, Road & Drainage Design, Environmental & Permitting, Surveying Services
Environmental Services inc.	Evaluation of Coatings

Principal-In-Charge (PIC) in consultation with the Project Manager (PM) will assign a Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, Detail Checker and Reviewer to each task order, with a level of technical skills and experience commensurate with the complexity of the structures included.

A specific organizational structure will be developed for each task order outlining responsibilities for every role of the project. See Attachment 1 for the overall organization structure.

Sub-consultants are required to follow the same QC/QA Plan. Modjeski and Masters will assist the Sub-consultants with their QC/QA activities by:

- Meeting with each Sub-consultant to go over this QC/QA Plan and its implementation
- Conducting technical meetings
- Providing and coordinating technical assistance
- Providing training materials
- Developing checklists and standard forms specific to each task order
- Performing quality audits

QC/QA PROCESS CONTROLS

a. Project Initiation

During the initial identification and proposal phase of each task order the Principal-in-Charge (PIC) and Project Manager (PM) determine the personnel that will be assigned to the project and their responsibilities. When possible, these individuals will participate in the initial conceptualization of the project and manpower estimating, as these initial activities identify the path to project completion. Design tasks shall be assigned to engineers qualified by virtue of education and/or experience commensurate with the complexity of the subject project.

At the immediate initiation of the project, the PM will prepare a project schedule indicating the major milestone dates and deliverable dates on the project and, if required, submit it to the LADOTD for approval.

The staff assigned to the project will include an appropriate Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, Detail Checker and Reviewer. Additional senior staff with experience related to the project will be assigned where appropriate. As additional staff joins the project, they will have a designated mentor among the senior staff to act as the first source for advice and counsel on technical and administrative matters. The technical scope of work contained in the Agreement will be made available to all individuals working on the project.

b. Project Design Criteria

Design criteria specific for each project will be developed by the PM prior to initiating the design process and will be submitted to the LADOTD for review and approval. Any design assumptions made or design exceptions obtained will be listed in the design criteria and

referenced in the design calculations and drawings as appropriate. A design criteria checklist as developed by the LADOTD is included in Attachment 7.

c. Development of Designs and Plan Details

During the design phase, the design engineer will follow the design criteria established for the project. Electrical/Photometric analyses and preliminary plans will be developed first and approved by the PM prior to proceeding with the design of structural components. The design calculations will be organized and maintained in a standard calculation book format. The calculation book checklist as developed by the LADOTD is included in Attachment 8. The design engineer will communicate and coordinate with the detailer and supervise the detailing work to ensure that the drawings adequately and accurately present the design information.

d. Quality Control of Designs and Plan Details

All work will be checked in order to minimize errors. If the design engineer is an engineer intern, the design checker will be a professional engineer registered in the State of Louisiana. The design checker will verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard Items, and cost estimate and will also ensure that the drawings adequately and accurately present the design information. The designer's calculations are considered the calculations of record and will be updated to correct any errors or omissions discovered by the design checker.

The detail checker will ensure that the drawings are in accordance with the design information and CAD standards. In addition, all dimensions and quantity calculations will be verified.

After the completion of the design and detail check (which shall be completed no later than the 95% Final Plans stage), the designer will prepare and provide to the Reviewer a QA information package which includes the following:

- QA information package check list (see Attachment 9)
- Calculation Book(s)
- Plans
- Special provisions including Non-Standard Items
- Cost Estimate
- Any other relevant documents (checklists, review comments, etc.)

e. Quality Assurance of Designs and Plan Details by the Reviewer

The Reviewer for M&M will perform a cursory review of all documents in the QA information package focusing on the following items:

- Constructability of the Plan Details
- Areas of Critical Importance
- Areas where mistakes are typically found

Areas that are new to the design practice

After all issues discovered during the QA process are rectified, the design calculations, plan details, special provisions and cost estimate shall be considered as final and the QC/QA certification (see Attachment 5) shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

f. Peer Review

When requested by the LADOTD Bridge Design Engineer Administrator, M&M will conduct peer reviews by team members or engage the services of a Sub-consultant licensed by the State of Louisiana as a professional engineer to perform a peer review. The Sub-consultant chosen for the peer review will have no prior involvement in the project but will have substantial experience in the design of similar structures. All peer review comments will be submitted to the LADOTD and the design team for evaluation and resolution. All resolutions agreed upon by the designer, peer reviewer and the LADOTD will be incorporated into the final design. A Peer Review Resolution agreement (see Attachment 10) will be signed by the peer reviewer, the PM and an LADOTD representative.

g. Sealing of Design Calculation Book and Plans by the Engineer of Record (EOR)

In addition to the previously defined requirements for the Engineer of Record, the Engineer of Record shall be responsible for the following tasks:

- Ensure the QC/QA certification is signed by all responsible parties.
- Ensure the geotechnical design information shown on the plans is co-stamped by a Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer. When more than one engineering stamp is required on a sheet, the responsibilities for each engineering stamp shall be clearly defined.
- Assemble design calculations from all designers including the final geotechnical analysis report and the hydraulic report from the geotechnical engineer and the hydraulic engineer, finalize the calculation book, and seal the cover sheet of the calculation book.
- Ensure the names of the designer, design checker, detailer, detail checker, and reviewer are correctly shown on the title block of each plan sheet.
- Stamp all plan sheets or designate a designer, design checker, or reviewer who shall be licensed by the State of Louisiana as a professional engineer to stamp the sheets developed under their supervision.
- The EOR must stamp the general notes sheets.
- Ensure all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR will stamp these provisions.
- Archiving all bridge design files including calculation books, plans, special provisions,

cost estimate and other pertinent documents in accordance with the LADOTD Bridge Design Section records retention policy.

i. QC/QA for Design Activities after Final Plans are Signed by the Chief Engineer

The same QC/QA process above shall be applied to all design activities such as plan revisions, change orders, etc. occurring after the final plans are signed by the Chief Engineer.

j. Archiving Electrical Design Files

The PM will deliver all electrical design files to the LADOTD Bridge Task Manger no later than 30 calendar days after the stamped final plans are delivered. Any revisions made to these documents due to plan revisions and change orders will be delivered with the signed plan revisions or change order sheets. The final calculation book and other final design documents for all projects including in-house and consultant projects will be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

k. Project Monitoring and Coordination

The PM will monitor the state of the project's progress, any unique technical issues that need to be resolved, and anticipated needs for increased or decreased staffing and report to the PIC.

The PM will be responsible to see that M&M internal minutes are kept at meetings with the LADOTD, Sub-consultants, and in-house project meetings. All the technical information in the minutes will be made available to all individuals working on the project. Where action is required, an individual will be identified as having been assigned that responsibility and a place shall be provided for the PM to indicate when that action has been completed.

All telephone contacts with the LADOTD, fellow design team members or Sub-consultants which lead to decisions or assignments will be recorded on a telephone log sheet. The telephone log sheet will be circulated to all individuals involved, and will become part of the correspondence file for the project (See Attachment 2 for an example telephone log). The log's project title and task order number will be edited as required for each project.

The PM will be responsible for establishing and maintaining a task list, which will identify the anticipated tasks, the team leaders, design engineers, detailers, design checkers, detail checkers and reviewers.

The PIC and the PM are responsible for being current with the project as it develops and for resolving all comments made by the LADOTD and document the resolution.

The PM, or his/her discipline reviewer designee, is responsible for overall quality assurance of the project deliverables.

All calculations and reports, which become superseded during the course of the project, will be clearly identified as being superseded and will be filed separately from the current work. Superseded work will not be discarded until the end of the project.

State-of-the-art computer hardware and software will be used to monitor and track the project development process. The software packages to be used are Microsoft Excel and Deltek Vision.

I. Communication Plan

All project team communication will flow through the PM or his/her team leader designee. This includes all communication with the LADOTD and Sub-consultants.

The methods of communication to be used, listed in order of decreasing preference, include: face to face (not feasible in many cases), telephone, e-mail, express mail and regular mail.

m. Electrical Related Inspections and Instrumentations

All field activities will be conducted by certified inspectors and will be supervised by a Registered Professional Engineer. The PM will identify one member of a field party to serve as a Safety Officer. It will be the Safety Officer's responsibility to:

- Identify local emergency services prior to the start of field work
- Review inspection and field safety requirements of the client, OSHA and Modjeski and Masters, Inc. with the field crew prior to the start of work,
- Verify that safety equipment is being properly used, and
- Supervise any accident reporting that may be necessary.

All field activities will be summarized in a report. Depending on the type of project, this report may be a memorandum to the files or a formal report to be submitted to a client. All reports will contain sufficient descriptions, measurements, sketches, or photographs to document conditions found and will undergo QC/QA reviews.

n. Construction Support Phase

All design activities in the construction support phase will also adhere to the requirements and policies described in this document. These activities include but are not limited to the following:

- Providing responses to Requests for Information (RFI)
- Reviewing Shop Drawings
- Development of Plan Changes/Change Orders

M&M will ensure timely responses to RFIs submitted by the Contractor and/or the LADOTD. M&M will also ensure that the design engineers and/or design checkers from the design phase will participate in the RFI response process.

M&M will ensure that the design engineers and/or design checkers from the design phase will participate in the shop drawing review process. Shop drawings will be reviewed to ensure compliance with design details and project requirements included in the plan drawings. M&M will also review the submitted shop drawings for compliance with the requirements set forth in the Louisiana Standard Specifications for Roads and Bridges. All comments will be returned to the Contractor for agreement, resolution and drawing revisions. Stamps to be applied to shop drawings during the intermediate and final review will adhere to the policies set forth in Bridge Design Technical Memorandum No. 75 and the Louisiana Standard Specifications for Roads and Bridges, Latest Edition.

M&M will also distribute the final shop drawings according to the distribution list provided by the LADOTD Project Manager or LADOTD Bridge Task Manager. Shop drawing distribution letters as provided in BDTM.75 will be used for each distribution.

Plan changes will adhere to all requirements and policies set forth in this document including the CAD Standards and Electronic Deliverables Policy.

SUB-CONSULTANTS

The Sub-consultants for a given task order and their general responsibilities under the contract are to be listed in Attachment 4 of this document.

Upon receipt of Notice-To-Proceed from the LADOTD, the PM will provide and confirm with each Sub-consultant, the scope of services and upper budget limit for the work. Invoicing procedures will be provided to expedite the billing process.

Each Sub-consultant will be asked to provide monthly status reports, which will include a summary of the progress to-date, and which will identify any issues encountered with its work during the period, any decisions or information from M&M that is delaying completion of its work, and the anticipated work for the next reporting period. Each Sub-consultant will be asked to provide interim results of their work, so that M&M can assess the information completed to-date, and either confirm that the task is being completed as scoped, or make the necessary adjustments to ensure that the work is being performed as scoped. All results provided by the Sub-consultants will be reviewed by the appropriate M&M staff prior to the information being used for preparation of deliverables to the LADOTD.

Internal team meetings will be held on a routine basis, and may or may not include all Team members, depending on the major tasks underway at that point in the schedule. Meeting

minutes will be recorded and distributed by M&M to the Sub-consultants as deemed appropriate.

Information provided by the LADOTD will be assessed by M&M, and forwarded to the Sub-consultant as necessary for information and action.

ELECTRONIC DELIVERABLES

M&M will produce all electronic deliverables in conformance with the DOTD Software and Deliverables Standards for Electronic Plans document (see Attachment 11). In addition, M&M will ensure that all Sub-consultants submit their electronic deliverables in conformance with the same standards.

M&M and all Sub-consultants will upload or check-in electronic deliverables directly into the LADOTD ProjectWise repository at each plan delivery milestone. In addition, M&M will perform the following operations at each milestone:

- Upload or check in CAD plan deliverables to the discipline "Plans" folder
- Apply and maintain indexing attributes to CAD plans (and other deliverables as needed)
- Publish to PDF format plan submittals in ProjectWise using automated publishing tools
- Digitally sign PDF format plan submittals in ProjectWise according to LADOTD standards and procedures. Signatures will be applied in the appropriate signature blocks with electronic seals and Title Sheets.
- Provide ControlCAD reports in ProjectWise and utilize these reports to correct indexing attributes and CAD standards of all electronic .DGN files.

M&M will apply patches to CAD Standard Resources and install updates to software as needed. In addition, M&M will install major updates to software versions and CAD Standard Resources in a timely manner or as directed by the LADOTD.

IDENTIFYING NON-CONFORMING WORK

The Project Manager or his/her designee will monitor day-to-day activities of the Design Team to confirm that the work is being performed as described in the scope of services and maintains the quality level expectations for the project, and it is within the established budget constraints. Discipline team leaders and reviewers will conduct quality control reviews at regularly scheduled intervals between and up to major milestone submissions throughout the course of the project. The schedule for these reviews will be established at the beginning of each major phase of the project by the Project Manager and the quality assurance reviewers based upon the agreed upon task schedule. Regular staff meetings will be held to discuss interim results, and to quickly identify work that may be considered non-conforming to the requirements of the project. Meeting minutes will indicate the extent of the non-conforming work, and action taken to correct the work and prevent re-occurrence for the remainder of the project. The

impact of any non-conforming work on external parties will be assessed, and affected parties will be notified as required. Corrected information will be provided to the affected parties as soon as practical. The results of non-conforming work will be sent to a "dead" file, and disposed of at the completion of the project. With day-to-day monitoring of activities, and regular staff meetings, the potential for, and associated costs of, non-conforming work will be minimized.

M&M's Sub-consultants will also be asked to monitor their activities for non-conforming work in a similar fashion, either identified internally, or through reviews of their work by M&M.

SCHEDULES / DELIVERY DATES / BUDGETS

The Project Manager will establish accounting phase codes for the project that follow the task designations included in the technical and price proposal. The associated budget for each phase based on negotiated man-hours will also be developed. Task codes will be established for each subtask within a particular designated proposal task. This information is then provided to the Accounting Department in order to track project man-hours used and job costs.

In addition, when deemed expedient by the Project Manager, project specific progress spreadsheets will be used to monitor efforts, and provide a second weekly means to track progress and project percent complete.

Quality assurance reviews will be conducted at regular intervals within each major phase of the project. Milestone submission dates will be used to develop the quality assurance review schedule to provide quality deliverables, and to ensure that sufficient time is included to perform the review, as well as permit the design team to respond and/or correct non-conforming work without compromising the overall submission schedule.

M&M will provide a project schedule to the LADOTD for record that identifies key deliverables and their milestone dates. This schedule will conform to the milestone dates established by the LADOTD at the project's start unless a revised schedule has been agreed upon by the LADOTD subsequent to the project start date. The schedule will be updated on a monthly basis to confirm that the project is proceeding as originally anticipated.

In the event a task order falls behind the projected schedule, an assessment will be made by the Project Manager or his designee on how to correct the issue. Potential corrective actions will include more staff added to the task, re-assignment of more specialized staff to the task, or perhaps a re-assessment of the schedule to determine if adjustments can be made to accommodate the delay in the task under concern, without impacting future project milestones.

ADMINISTRATIVE QUALITY MANGEMENT PROCEDURES

The PIC and PM are responsible for the preparation of the technical and price proposals for the project, including both the original agreement and subsequent supplements/work orders. The PIC will review all proposals prior to submission to the LADOTD. A copy of the executed agreement(s) is kept on file in the Accounting Department. This file is readily available to management staff.

Estimation of percent completion and invoice costs will be performed by the PM, with assistance from the discipline team leaders. Using project specific progress tracking spreadsheets, and input from senior staff on completion of work for the various tasks performed for the period under consideration, a project percent complete will be established. This information will be compared against the projected percent compete per the design schedule at that time to determine if the project is on or ahead of schedule, or what corrective actions are necessary to get back on schedule.

DOCUMENT CONTROL

a. Input

Project specific files are to be established at the beginning of the project. Information is to be filed using the project number as the primary element followed by numerals set up for the project (for example 3000-1 with 3000 being the job number and the numeral 1 being general correspondence and so on) or in accordance with a file numbering system established by the LADOTD.

Information received by the PM is assessed and a copy forwarded to appropriate staff primarily responsible for the task. All senior staff will be provided with the file copy for review and information purposes, in order to keep them aware of associated tasks being performed in conjunction with their work. Electronic documents, including e-mail, are kept on our secure server that all staff can access using the same file naming convention.

All staff will be provided access to current design codes, and addendums which are provided by the Firm when available. Staff will be notified of project specific design criteria and standards, either at staff meetings, or by receipt of memorandum, or by e-mail.

Comments received from the LADOTD or Sub-consultants are reviewed by the PM or his designee, and the appropriate staff made aware of the comments for their response. If a date of response is not included with the comment document, the Project Manager will establish a date, and follow-up with the appropriate staff to make certain that resolution is occurring in a timely manner. The PM will provide M&M's response to the LADOTD and await a follow-up reply.

b. Output

The PM or his designee will confirm that the design staff have been supplied and are using the most current project information, project specific design criteria, design specifications and standards during the course of the project. Staff will be notified either through face-to-face meetings, inter-office mail or electronic mail of updates to information/specifications/criteria that will impact their work.

Quality assurance reviews will be conducted to confirm that the assigned project staff is using the correct project information, design criteria, specifications and standards for completion of their work.

TECHNICAL QUALITY MANAGEMENT PROCEDURES

Specific design procedures for this QC/QA Plan include the following:

- The PM or his team leader designee will identify the design criteria established for each task order, and ensure that the staff is kept updated on any changes or additions to the criteria as the project progresses. Project specific exceptions to standard design specifications discussed with the LADOTD will be documented. Reports and technical documents will be reviewed by the PM or his team leader designee to confirm that the results and/or recommendations utilize the current criteria. Reports and documents will be provided to the quality assurance reviewer to assess the results and recommendations of the design team.
- Continuing training is part of M&M's culture. M&M Design Engineers are constantly being trained by the more senior staff and by attending relevant courses and conferences, and these efforts shall continue. The training materials and references collected are readily available in the office, and will also be made available to the Sub-consultants.
- Design Engineers shall perform self-checking as the work progresses using in-house developed self-checking guidelines. They shall also perform cross checking as needed as the work progresses, when any team member is unsure of the results.
- Design engineers shall provide calculations for formal checking that include assumptions, design criteria and all reference material used to develop the calculations. Calculations shall be in a neat and orderly format. Individual sheet (or sheets) considered as trial designs, or no longer valid, shall be marked to prevent checking of preliminary or superseded work. All formal design calculation sheets will be checked, initialed and dated by the originator and the checker. The quality assurance reviewer will confirm that the established checking procedures and Quality Review Color Codes contained in Attachment 6 have been followed, and that the calculations are complete.

- Any and all LADOTD approved computer programs to be used for a project will have been checked independently by M&M as part of the approval process. Program input is checked to confirm that the appropriate geometry, section properties and material properties have been used, and the output assessed to make certain that the results are trending in the right direction, based on both the current project, as well as past experience, prior to the results being used to complete the design. It is of utmost importance that the designer understands when computer results are reasonable. Checks are made using hand calculations or different computer programs used in parallel. Two engineers working in parallel may be needed when using software that requires a high degree of accuracy and detail. Spreadsheets are checked to confirm that the appropriate design criteria and specifications are being utilized, and that the results of the analysis programs are being transferred correctly and appropriate load factors are being applied.
- Drawings for the design will be developed by qualified technicians and reviewed and checked by engineers or qualified technicians and will meet the requirements of the LADOTD. Drawings will be initialed and/or signed, as applicable, by the originator and the checker. Drawings marked up with changes and/or corrections resulting from the review process are returned to the designer for action. Upon completion of the revisions, the team leader will compare the revised drawings with the marked up review drawings to ensure that all comments have been incorporated into the plans. The completed drawings and mark up's will be provided to the quality assurance reviewer to confirm that the necessary corrections have been completed, the Quality Review Color Codes contained in Attachment 6 have been followed, as well as assess the drawings for overall completeness and clarity.
- Special provisions for non-standard items will be reviewed by the PM or discipline lead for clarity, as well as consistency with the contract plans. Conformance to the LADOTD's standard specifications (content and format) will also be checked. The quality assurance reviewer will assess the special provisions for completeness and compatibility with contract plans.
- Construction cost estimates will be developed based on estimated quantities for the various pay items associated with the design and in accordance with the LADOTD's requirements. An in-house cost estimate will be determined based on M&M plan details. In addition, industry experts (suppliers, fabricators and contractors) may be consulted in development of the estimates. Current bid price (averages) and similar recently bid and/or completed projects will also be reviewed to confirm that the estimate is reasonable. The PM will review the information used to create the cost estimate. The completed cost estimate will be provided to the quality assurance reviewer to assess if the costs appear reasonable for the work included in the contract plans and specifications.
- The PM or a qualified reviewer designee will review all calculations, drawings and specifications to determine that work is being completed in accordance with applicable specifications and the requirements of the LADOTD. This is not to be a number-by-number, line-by-line review, but is to be sufficiently in-depth to identify significant shortcomings in

content or presentation, and to determine that the intent of design specifications is being met. This review also includes checking the constructability of the project.

- Completed LADOTD quality assurance certification forms will be submitted for the project. A copy of the certification forms are attached (see Attachments 3 and 5.)
- The PM will be responsible to determine that the project is successfully and completely finalized. This will include:
 - o the filing and indexing of design calculations and record copies of drawings,
 - confirmation that the correspondence file and accounting files are in their proper locations,
 - confirmation of the delivery of all required drawings, calculations, reports, correspondence and other documentation to the LADOTD., and
 - o confirmation that quality assurance records and certification forms have been filed.
- Records will include the following items:
 - o non-conformance and corrective action reports
 - o drawings, procedures and the QA/QC plan
 - o design input, output and verification
 - o certification records
- All files, storage boxes or other containers shall be clearly identified with the proper name
 of the project, the colloquial name, if applicable, the year completed, the LADOTD's project
 identification number and M&M's project number. These will be transmitted to the
 LADOTD if required. The accounting office will be notified that the project is complete and
 that final invoicing may take place.

INTERNAL QUALITY AUDITING

An internal QA audit schedule for each project will be developed. The schedule will be a function of the length of the Task order; shorter task orders will require more frequent audits versus longer projects. Individuals named by the PIC will be performing quality assurance reviews, and will be primarily responsible for confirming that the QC/QA plan is being implemented by the PM on the project. The results of these quality assurance audits will be provided to the PM. If any deficiencies are noted, the PM will be responsible for taking corrective action, follow-up and providing documentation of the actions taken.

Frequency of review meetings for the following items is anticipated to be as follows:

- Schedules monthly
- Scope monthly
- Budget monthly

- Team organization adjustments bi-weekly (max), or as needed by the project schedule
- Approvals as needed
- Coordination at the discretion of the Design Team

During the course of the project, periodic reviews of the policies and procedures in QC/QA Plan will be reviewed by the PM and the quality assurance reviewers to ensure usability and compatibility with interfacing procedures.

Assigned project staff and new staff as they are assigned to the project will be made aware of the specific QA/QC controls established for the project by the PM or his designee. Senior staff will mentor new staff on policies and procedures used to ensure a quality deliverable. The quality assurance reviewers will also monitor the staff to confirm that the quality management plan has been properly communicated to the assigned staff, and that modifications to the plan are communicated to all staff throughout the course of the project.

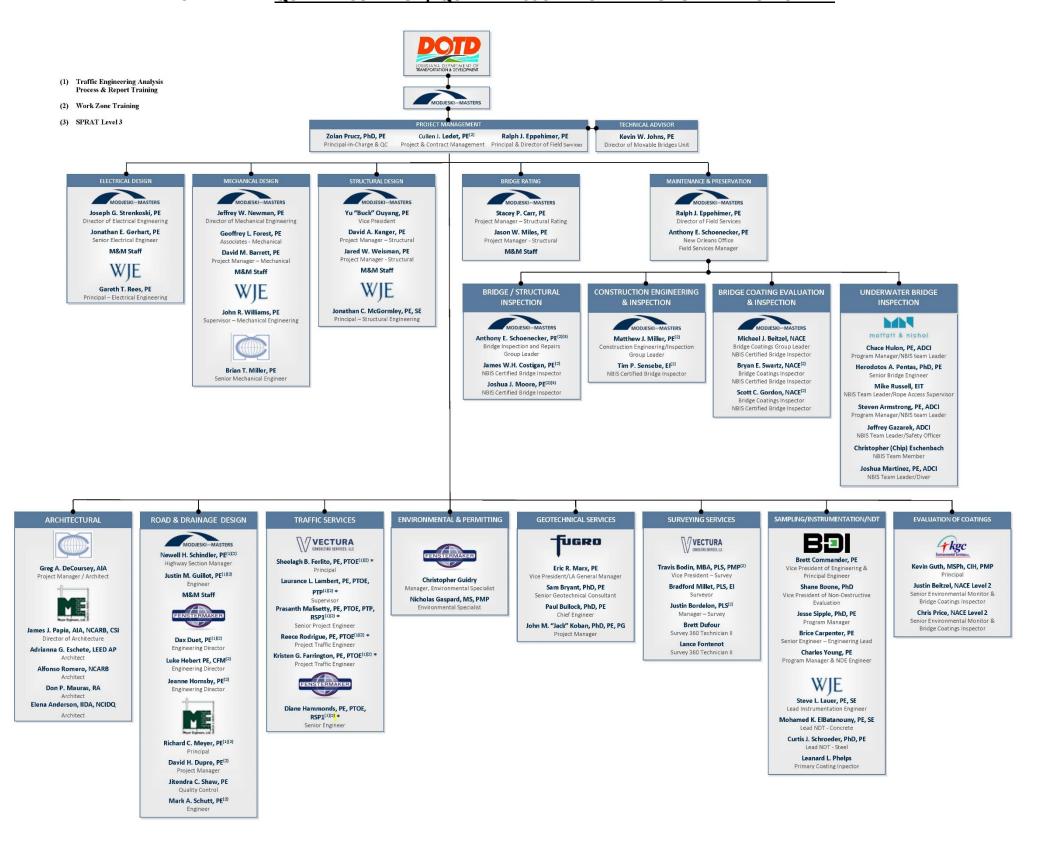
EXTERNAL AUDITS

M&M will accommodate and facilitate LADOTD audits at various times throughout the duration of the project if required.

QC/QA CERTIFICATION

At the end of each project the Department's QC/QA Certification Form (LADOTD BDEM Chapter 3, Appendix D) will be completed and submitted along with the Certification Form (LADOTD BDEM Chapter 3, Appendix I). See Attachments 5 and 3 respectively.

ATTACHMENT 1 - QUALITY CONTROL / QUALITY ASSURANCE PLAN ORGANIZATION CHART



ATTACHMENT 2 – <u>TELEPHONE LOG</u>



TELEPHONE LOG

		URGENT		OUTGOING CALL
TIME:		INCOMING CALL		RETURNING YOUR CALL
Bridge Task Ord	der #:	XXXXXXX		
SCUSSED		ACTIO	ONS T	O BE TAKEN
		Bridge Task Order #:	TIME: INCOMING CALL Bridge Task Order #: XXXXXXX	TIME: INCOMING CALL Bridge Task Order #: XXXXXXX

ATTACHMENT 3 – <u>CERTIFICATION FORM</u>

Appendix I

Consultant Submittal QC/QA Certification

Project No.:		
Project Name:		
I, the undersigned Supervisor or Team L included in this submittal has been prep and LADOTD Bridge Design Section polic and meets the requirements of this sub-	pared in accordance with the cy on QC/QA and the inform	e QC/QA plan documents ation presented is accurate
Submittal Description		
Supervisor or Team Leader Name	Signature	 Date

ATTACHMENT 4 – LIST OF SUB-CONSULTANTS AND FUNCTION

Sub-Consultant	Services Provided
VECTURA CONSULTING SERVICES, LLC	Traffic Services
MARREDO COUVILION & ASSOCIATES Engineering & Construction	Mechanical Design, Architectural
-fugro	Geotechnical Services
WJE Wiss, Janney, Elstner Associates, Inc.	Electrical Design, Mechanical Design, Structural Design, Sampling, Instrumentation and Non-Destructive Testing
moffatt & nichol	Underwater Bridge Inspection
Meyer Engineers, Ltd.	Architectural, Road & Drainage Design
Bridge Diagnostics, Inc. (BDI)	Sampling, Instrumentation and Non-Destructive Testing
FENSTERMAKER	Traffic Services, Road & Drainage Design, Environmental & Permitting, Surveying Services
Environmental Services inc.	Evaluation of Coatings

ATTACHMENT 5 – QC-QA CERTIFICATION

Appendix D QC/QA Certification

Project	No.:
Project	Name:

We, the undersigned designers, raters, detailers, checkers and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
EOR						

ATTACHMENT 6 – QUALITY REVIEW COLOR CODE

The originator will generate printed or copied i	reports, calculations,	drawings, or other	similar
originals.			

The checker will:

Highlight in YELLOW everything that is correct.

incorrect

Strike in RED everything that is incollect or needs to be deleted.

Write all additions and corrections in GREEN.

The originator will then:

Back-check in **BLUE**.

All comments that do not require edits are to be made in BLACK ink or pencil.

ATTACHMENT 7 – EXAMPLE OF DESIGN CRITERIA CHECKLIST

(This is an illustrative example as provided by the LADOTD. Specific checklists and forms will be developed for each bridge type and task order)

Design criteria for each project shall include, but not limited to, the following sections:

Cover sheet

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- Revision date
- The Supervisor or Team Leader's signature and date

Governing Design and Construction Specifications and Other References

A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.

__ Design Assumptions and Design Exceptions

All design assumptions and design exceptions received must be included in this section along with supporting documents.

General Information

The general information as listed below should be included in this section:

- Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
- Road information (roadway classifications, design speed, traffic data, etc.)
- Vertical datum
- Vertical and horizontal clearances
- Other relevant information

Hydraulic Design Criteria

All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.

Design Factors

The ductility factor η_D , redundancy factor η_R , and operational importance factor η_I shall be listed in this section.

 Design Loads All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.
 Limit States All applicable limit states for this project shall be listed in this section.
 Bridge Barrier The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.
 Guardrail The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans and special details should be listed if they are utilized.
 Approach Slab Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.
 Deck and Deck Drainage All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.
 Bearing All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.
 Joint All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
 Superstructure

All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Substructure

All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Piles and Drilled Shafts

All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ Geotechnical Design

All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.

Mechanical Design

All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

Electrical/Lighting Design

All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

As-Designed Bridge Rating Criteria

All as-designed bridge rating criteria shall be included in this section.

Software

All software used for design and check shall be included in this section.

ATTACHMENT 8 – FINAL CALCULATION BOOK CHECKLIST

The final calculation book for each project shall include, but not limited to, the following sections:

	Cover Sheet
	The following information must be included on the cover sheet:
•	LADOTD project number
•	Project name
•	The title of "Final Calculation Book"
•	The EOR's seal with signature and date
	Final Calculation Book Check List
	QC/QA Certifications
	Peer Review Resolution Agreement (if peer review is performed)
	Design Criteria
— — — — — — —	Photometric Analysis Report
	Final Hydraulic Analysis Report from Hydraulic Engineer
	Final Geotechnical Analysis Report from Geotechnical Engineer
	Electrical Design Calculations
	Superstructure Design Calculations
	Substructure Design Calculations
	Quantity Calculations
	Special Provisions/NS-Items
	Construction Cost Estimate
	As-Designed Rating Report
	List of All Final Electronic Design Files and File Locations (ProjectWise directory name)
	Consultants shall submit the final calculation book to LADOTD bridge task managers;
	the submittal shall be on a CD or Flash Drive or placed to a designated ProjectWise
	folder including the following information:
	A PDF File of the Calculation Book (Including the As-Designed Rating Report)
	All Electronic Design Files
	A PDF File of the As-Designed Rating Report Only

The final calculation book for in-house projects shall include the same files listed above for consultant projects. The final calculation book and other final design documents for all projects including in-house and consultant projects shall be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

ATTACHMENT 9 – QUALITY ASSURANCE INFORMATION PACKAGE CHECKLIST

Project No.: Project Description	on:
	Calculation Book
	Plans
	Special Provisions
	Cost Estimate
	Other Documents

ATTACHMENT 10 – PEER REVIEW RESOLUTION AGREEMENT

Project No.:	
Project:	
Name:	
We, the undersigned Peer Reviewer, Supervisor or Team Leader of the design team and LADOTD Representative for this project, have reviewed and accepted the attached peer review resolutions. We certify that the peer review has been performed in accordance.	d

with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	Signature
Peer Reviewer		
Supervisor or Team Leader		
LADOTD Representative		

ATTACHMENT 11 – <u>LADOTD SOFTWARE AND DELIVERABLES STANDARDS FOR</u> <u>ELECTRONIC PLANS</u>

LaDOTD Software and Deliverable Standards for Electronic Plans Revised May 2018						
Function	LaDOTD Software Standards	Consultant Software Standards	Deliverables	Comments		
CAD Drafting	Bentley MicroStation 1/8 V8.11.07.443 (SS2) or V8.11.09.832 (SS4)	Benley MicroStation V8i V8 11 07 -443 (SS2) or V8 11 09 832 (SS4)	MicroStation DGN	Consultants must upload MicroStation plan submittals directly into the ProjectWise discipline "Plans" folder.		
CAD Standards Management	Altira CADconform V8.00.70 (MicroStation)	Altiva CADconform V3 00 70 (MicroStation)	MicroStation DGN (with valid CADconform certification stamp)	Certify the DGN fries as DOTD CAD Standard Compliant (Indicated by valic compliance stamp) using CADconform numming on MicroStation.		
CAD Standards Quality Authentication	Abiva DNS:conform "Check CAD Standards" (Administered by LaDOTD in Project/Vise)	Ativa DMSconform "Check CAD Standards" (Administered by LaDOTD in ProjectWise)	Approved ControlCAD Microsoft Excel report	DOTD reviewers use the EMScontorn "Check CAD Standards" function to check for visit CADconform confication stamps and for several other compliance factors. Status reports must reflect 100% compliance by 60% Final Planta (or Societ's reported by the Project Membagin Canada Cada Cada Cada Cada Cada Cada C		
CAD Attributes Quality Authentication	Allya DMSconform "Check Attributes" (Administered by LaDOTD in Project/Vise)	DMSconform "Check Attituties" (Administered by LaDOTD in ProjectWise)	Approved ControlCAD Microsoft Excell report	DOTD reviewers use the EMScantom "Check Addisorter" fands to to check for concluded indusing attitute values. Statis report must refect 10% compleance by 40% Final Finals (or sooner if specified by the Project Menager). Southandand deliverseles must be approved and documented (as to reason) by the Project Menager.		
CAD Plotting	Biedley ProjectWrie InterPot Crganizer V8i V8.11.11.XX (\$34)	Rentey ProjectWise InterPox Organizer VSi V8.11.11304 (\$\$4)	Flepeir format drawings (Inter Plut can also be used to create PDFs)	Full Size Submittals: Full size submittal sheets shall have an outside dogs measuring 27 X31". Provide a 0.550 margin on the top, bother and right shand side of the shoet and a 2'margin on the left hand side of the sheet. - Half Size Submittal; Half size outsimited sheets shall have on colliste adop measuring 11" X11". Drawings shall be an exact 50% reduction of the bit size side creaving. Provide a 0.50% reduction of the bit size side creaving. Provide a 0.50% reduction of the bit size side creaving. Provide a 0.50% reduction of size size size size size size size size		
Electronic Plans Publishing	Bentley Publish to PDF (Integrated with ProjectVVise)	Bertley Publish to PDF (Integrated with Projectivise)	PDF drawings in ProjectiVise	PCPF format drawings are the formal electronic deliverable. Consultants must import (imenaged refresh) MicroStation format drawing into the approache or reject/Wrise despeline Plans "folder (for each plan delivery milestone) in order to be able to publish PCPE fain outentable. A. Miss setup file is needed to use the Publish to PCPE tool. Project/Wrise External PCPE Publishing Downloads For Consultance.		
Road Design	Bentley inroads V8I V8.11.07.815 (\$52)	Berdiey Irroads V8 V6 :11.07 615 (\$\$2)	InRoeds DON graphics, ALO, DTM	DOTID only allows InRoads that runs on the MicroStation platform. InRoads SS4 and OpenRoads Dosigner are not supported at this time.		
Hydraulic Design Drafting (Optional)	Bendey Irroads Storm & Santary VSi V8.11.07.015 (\$\$2)	Beetley Israads Storm & Santary VB V8.11.07.015 (\$S2)	Hydraulics DGN Graptics	Bontiley Storm and Sanitary is recommended for generating organizes only. A DOTTO only elibours linRoades Storm 8: Sanitary that runs on the Micro Station juddern. The current deep runs darked is INYDR, which is used to check trystrautic designs.		
Electronic Survey	Bendiny Invoids Eurrey VB VB 11 07 815 (SS2)	Bendey Irroads Survey VBI VB.11.07.615 (SSZ)	Survey DGN Graphics, PMD, DTM, ALG, TXT	Any date collection tool and method that produces the resurred disleventile content and accuracy are acceptable. OTD Tensure codes must be used using olds collection to enable output of CAD survey graphics and essociated Tag Date. Any of the CAD survey graphics and essociated Tag Date. Any of the CAD survey that runs on the interestication platform.		
PDF Plan Reader	Adobe Acrobat Reader	Adobe Acrobat Reader	NA			
Digital Signatures	N/A (New Process in Developement)	NA (New Process In Development)	N/A (Now Process In Developement)	NIA (New Process in Developement)		
Collaboration Platform	Bertley Project/Vise Explorer V8i V8.11.11.XXX (SS-4)	Beatley Project/Wise Explorer VBI VB:11.11.XXX (SS4)	Project plans and associated docurrents	 Consultants are required to manage their plan submittals within DDTD's FrejectWise system. Use the managed Export-Export (Locis File) and managed import functions to manage CAD cerelogment between PDF submittals. This prevent in maniferation d hange or alloss of stituture indexing. This ProjectWise Exporer application is provided free of charge for consultants working on LA DOTD projects. The Bentoty Prasport License required for un ProjectWise will be the Consultant's responsibility to purchase. 		
Software versions posted herein are the latest supported version as of this document publishing. We will seek to keep this document as up to date as possible as we move forward.						
Certact Ryan Felder at ryan felder(gila gov (225-379-1366) for general information and assistance regarding LaDOTD electronic standards, Project/Vise worldow and electronic plan delivery, authentication and publishing. Contact David Ringuette at devia ringuette(gila gov (or call 225-379-1880) for general information and assistance regarding Project/Vise PDF publishing setup.						
l		n select Doing Business with LaDOTD > Electronic Standards		e downloads.		
	Browse to http://www.aitivasoft.co	com/downloads/CADconform for the latest CADconform software	re downloads and related CAD/OS platform compatibility informat	ion.		
	Contact support@allivasoft.com (or call 281-265-254) for information and assistance regarding installation of LaDOTD CAD Resources and Altiva CAD conform software					
Contact Attiva Software to purchase CADconform. Contact Bentley Systems to purchase MicroStation, Project/Vise InterPlot Organizer and Innovads products.						

Louisiana Department of Transportation and Development Bridge Design Section

Pre-Approved Software List

Updated: March 10, 2021

Develope:	Coffee None	
Developer	Software Name	
AASHTO, Inc.	AASHTOWare Bridge Design	
AASHTO, Inc.	AASHTOWare Bridge Rating	
AASHTO, Inc.	AASHTOWare PS Design Tool	
Acuity Brands Lighting, Inc.	Visual	
Bentley Systems, Inc.	CONBOX	
Bentley Systems, Inc.	CONSPAN	
Bentley Systems, Inc.	CONSPLICE	
Bentley Systems, Inc.	GEOMATH	
Bentley Systems, Inc.	Microstation	
Bentley Systems, Inc.	OPEN Bridge Modeler	
Bentley Systems, Inc.	RCPier	
Bentley Systems, Inc.	RM Bridge	
Bentley Systems, Inc.	STAAD	
Bentley Systems, Inc.	STAAD Beava	
Bentley Systems, Inc.	STAAD Section Wizard	
Bridge Software Institute	FB-Pier	
Computers and Structures, Inc.	CSiBridge	
Computers and Structures, Inc.	CSiCOL	
Computers and Structures, Inc.	SAP 2000	
CSI, Ltd.	DDM	
DOTD In-House	COMPSTIL	
DOTD In-House	TimberC	
Drive Systems Technology, Inc.	Power Gear	
Elite Software	CHVAC 8	
Ensoft, Inc.	L-Pile	
Finite Element Analysis, Ltd.	LUSAS	
LARSA, Inc.	LARSA 4D Bridge Plus	
Lighting Analysts, Inc.	AGi32	
MDX Software, Inc.	MDX	
MIDASoft	Midas Civil	
Operating Technology, Inc.	ETAP	
PTC, Inc.	MathCAD	

Smart Bridge Technology	Smart Bridge Suites
SolidWorks Corporation	SOLIDWORKS
Structure Point, LLC	spColumn
University of Maryland	Sabre
Vista Data Vision	VDV
Wyoming DOT	BRASS-Culvert

Notes:

- 1. If any other software is required for unique applications for which pre-approved software cannot be used, a synopsis of the software shall be submitted to the Bridge Design Engineer Administrator for approval prior to use. The synopsis shall include the name of the software and the developer, a general description of the functions, a certification from the software developer stating that it is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications, and an account of the requester's experience and the experience of other organizations or agencies that use the software. Data/results from in-house software will not be accepted as part of the deliverable.
- 2. The cost of software shall be included in the overhead cost of the firm and not a direct expense for the projects.

22. Sub-consultant information:

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Vectura Consulting Services, LLC	8000 Innovation Park Drive, Baton Rouge, LA 70820	Brin Ferlito, bferlito@vecturacs.com	(225) 223-6685
Marrero, Couvillon & Associates, LLC.	4354 S. Sherwood Forest Blvd., Suite D200 Baton Rouge, LA 70816	Greg DeCoursey, AIA gdecoursey@mca-llc.com	(504) 834-3448
Fugro USA Land, Inc.	4233 Rhoda Dr, Baton Rouge, LA 70816	Jack Koban, PhD, PE, PG jkoban@fugro.com	(225) 292-5084
Wiss, Janney, Elstner Associates, Inc.	330 Pfingsten Road, Northbrook, IL 60062	Jonathan McGormley, PE jmcgormley@wje.com	(847) 753-7234
Moffatt & Nichol, Inc.	301 Main Street, Suite 800 Baton Rouge, LA 70801	Chace Hulon chulon@moffattnichol.com	(225) 610-1932
Meyer Engineers, Ltd.	4937 Hearst Street, Suite 1B Metairie, LA 70001	David Dupre, P.E. ddupre@meyer-e-l.com	(504) 885-9892
C. H. Fenstermaker & Associates, L.L.C.	135 Regency Square Lafayette, LA 70508	Dax Douet, P.E. dax@fenstermaker.com	(337) 237-2200
Bridge Diagnostics, Inc.	740 S. Pierce Ave, Unit 15 Louisville, CO 80027	Scott Aschermann scotta@bditest.com	(303) 494-3230
KGC Environmental Services Inc.	344 Black River Drive Madisonville, LA 70447	Kevin Guth kmguth@kgces.com	(225) 936-3456

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.

Prime consultant name: Modjeski and Masters, Inc.