



IDIQ CONTRACTS FOR

BRIDGE PRESERVATION SERVICES STATEWIDE

CONTRACT NOS. 4400035420, 4400035421,
4400035422



June 30, 2026



June 30, 2026

Louisiana Department of Transportation and Development
Consultant Contract Services
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

Dear members of the selection committee,

The HNTB team brings the Louisiana Department of Transportation and Development (LADOTD) extensive local leadership and expertise for this critical statewide bridge preservation retainer contract. HNTB has had the pleasure of working with LADOTD on IDIQ Contracts for Bridge Preservation Services for the last 15 years, and over that time has developed a deep understanding of LADOTD's needs and expectations. We bring a team of world-class designers with experience on a vast assortment of bridge types and innovative design concepts at the forefront of the transportation design industry. We bring established relationships, and an unparalleled knowledge of what the LADOTD Bridge Design Section expects from its consultant partners.

For over 60 years, HNTB has partnered with LADOTD on many of your most complex structural projects, including the LA 1 Phase 2 and the I-10 Calcasieu River Bridge Replacement Early Works Package projects, and we look forward to continuing our working relationship with you. Our mission is in-line with the objectives of the Department, to preserve the state's bridge inventory, support mobility and asset management, and protect public safety.

Since 2011, HNTB has successfully undertaken 91 bridge-related task orders through your Bridge Preservation Services retainer contracts, so we fully understand what is required to successfully deliver quality bridge projects. Having a deep knowledge of LADOTD's contracting procedures and the Bridge Design and Evaluation Manual (BDEM), HNTB will not only be able to contract more efficiently, but also be able to complete projects with less guidance and need for comment. Our team is expertly assembled to take on all types of projects needed by the LADOTD, from feasibility studies, to preliminary plans, all the way to emergency projects requiring straight to final plan development. No matter the schedule constraint, HNTB will deliver.

HNTB's experienced staff is well-suited to continue assisting the LADOTD bridge staff with this IDIQ Contract for Bridge Preservation. **Josh Porter, PE,** will serve as project manager for this retainer contract. Josh is the project manager of HNTB's current IDIQ Contract for Bridge Preservation Services and has extensive experience in multi-discipline project management and

**RE: CONTRACT NOS. 4400035420, 4400035421, AND 4400035422 -
IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES**

task order management, as well as bridge design, rehabilitation, repair, load rating, inspection, and plan production. Understanding that multiple task orders will be concurrently active at any given time, HNTB has structured our team with four additional task order managers in addition to Josh to support project scoping and management at the task order level; **Marc Hoffmann, PE, Mark Elkassouf, PE, Patrick Duffy, PE and Mike Perault, PE.** Each task order manager is located in our Baton Rouge office and each has worked on multiple IDIQ Contracts for Bridge Preservation.

We have assembled a team including HNTB local staff, national experts, and subconsultants who specialize in their respective services to meet the depth and breadth of expertise required to deliver on this contract. This combination ensures our ability to respond to the volume and schedule for any assigned work. Our subconsultant team consists of firms that have all partnered with HNTB on previous DOTD retainer contracts and executed several bridge related task orders with HNTB, ensuring seamless execution of task orders on this IDIQ contract for Bridge Preservation Services. Our team includes the following highly-skilled and experienced firms:

- Ardaman & Associates, Inc.
- Coastal Environments, Inc.
- ELOS Environmental, LLC
- Forte and Tablada, Inc.
- Gulf South Land Title Resources, LLC
- KGC Environmental Services, Inc.
- Moffatt & Nichol Inc.
- Vectura Consulting Services, LLC
- Wiss, Janney, Elstner Associates, Inc.

At HNTB, we will continue to deliver our signature "4for4" – quality work, on time, on budget, and to your complete satisfaction. We are pleased to present our qualifications for this contract.

Sincerely,
HNTB Corporation



Dusty Bastion, PE
Vice President, Principal-In-Charge



Josh Porter, PE
Project Manager



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SECTIONS 1-11



DOTD FORM: 24-102

IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES STATEWIDE

(Revised August 11, 2025)

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

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

1. Contract Name as shown in the advertisement	IDIQ Contracts for Bridge Preservation Services Statewide
2. Contract Number(s) as shown in the advertisement	4400035420, 4400035421, AND 4400035422
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include screenshot from SOS at the end of Section 20</u>)	HNTB Corporation
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.0001775
6. Prime consultant mailing address	450 Laurel Street, Suite 1200, Baton Rouge, LA 70801
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	450 Laurel Street, Suite 1200, Baton Rouge, LA 70801
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Todd "Dusty" Bastion, PE, Vice President Phone: (225) 368-2810 Email: dbastion@hntb.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Todd "Dusty" Bastion, PE, Vice President Phone: (225) 368-2810 Email: dbastion@hntb.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.



Signature above shall be the same person listed in Section 9:

Date: 06/30/2026

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

Firm(s):

N/A

Firm(s)' %:

N/A

SECTION 12

DISCIPLINE TABLE



12. Discipline Table:												
Discipline(s)	% of Overall Contract	HNTB Corporation (Prime)	Ardaman & Associates, Inc.	Coastal Environments, Inc.	ELOS Environmental, LLC	Forte and Tablada, Inc.	Gulf South Land Title Resources, LLC	KGC Environmental Services, Inc.	Moffatt & Nichol Inc.	Vectura Consulting Services, LLC (DBE)	Wiss, Janney, Elstner Associates, Inc.	Each Discipline must total to 100%
Bridge	71%	90%	0%	0%	0%	5%	0%	1%	2%	0%	2%	100%
Geotech	5%	25%	75%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Road	12%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Traffic	2%	25%	0%	0%	0%	0%	0%	0%	0%	75%	0%	100%
Survey	8%	0%	0%	0%	0%	90%	10%	0%	0%	0%	0%	100%
Environmental	2%	30%	0%	30%	40%	0%	0%	0%	0%	0%	0%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.												
Percent of Contract	100%	78.25%	3.75%	0.60%	0.80%	10.75%	0.80%	0.71%	1.42%	1.50%	1.42%	100.00%

SECTION 13

TEAM SIZE



13. Team Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
HNTB Corporation (Prime)	Accountant	1	15
	CADD Technician	2	24
	Clerical	1	16
	Engineer	11	17
	Engineer Intern	4	45
	Engineer - Other	3	67
	Environmental Manager	1	3
	Planner	1	12
	Principal	1	5
	Senior Technician	4	16
	Supervisor - Eng	4	14
	Supervisor - Other	4	71
Ardaman & Associates, Inc.	Administrative	1	1
	CADD Technician	2	2
	Clerical	1	2
	Engineer	1	6
	Engineer Intern	3	6
	Principal	2	3
	Senior Technician	8	9
	Supervisor - Eng	3	3
	Supervisor - Other	3	4
	Technician	11	15
Coastal Environments, Inc.	Archaeologist	6	14
	Archaeologist - Tech	6	12
	Historian	2	4

13. Team Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
ELOS Environmental, LLC	Principal	1	2
	GIS Analyst	2	3
	Environmental Professional	2	2
	Environmental Manager	2	2
	Biologist/Wetlands	3	5
	Archaeologist	2	3
	Geologist	1	1
	Inspector - Lead	1	4
	Clerical	2	2
	Historian	1	1
	Technician	2	5
Forte and Tablada, Inc.	Principal	1	2
	Surveyor	2	4
	Party Chief	2	4
	Instrument Man	2	2
	Technician	1	1
	Senior Technician	1	2
	Supervisor - Eng	1	1
	Engineer	1	1
	CADD Technician	2	4
	Clerical	1	1
Gulf South Land Title Resources, LLC	Abstractor	6	6
	Clerical	3	3
	Principal	1	1

13. Team Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
KGC Environmental Services, Inc.	Principal	1	1
	Senior Technician	2	1
Moffatt & Nichol Inc.	Principal	1	7
	Administrative	1	4
	CADD Technician	1	15
	Engineer	2	39
	Engineer Intern	3	10
	Inspector - Bridge	6	35
	Senior Technician	1	13
	Supervisor - Eng	2	11
Vectura Consulting Services, LLC	Supervisor - Eng	2	2
	Engineer	3	5
	Engineer Intern	2	2
	Inspector	0	2
	Supervisor - Other	1	1
	Clerical	1	1

13. Team Size:

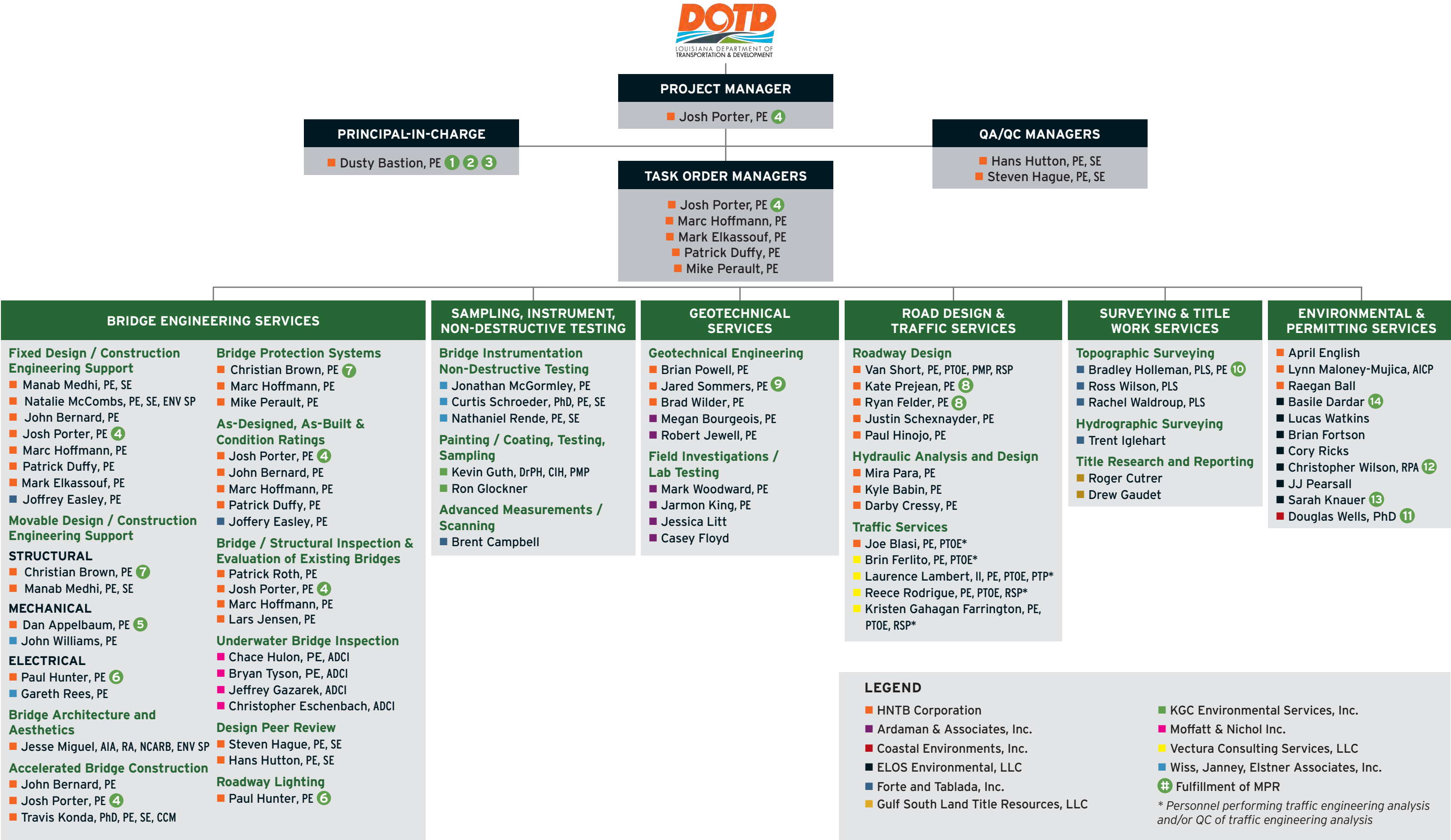
Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
Wiss, Janney, Elstner Associates, Inc.	CADD Technician	2	7
	Clerical	4	5
	Engineer	1	3
	Engineer Intern	2	11
	Engineer - Other	3	41
	Geologist	1	2
	Principal	6	71
	Professional	4	145
	Senior Technician	2	24
	Supervisor - Arch	0	1
	Supervisor - Eng	2	18
	Supervisor - Other	6	189
	Technician	2	9
	Inspector - Bridge	0	1

An aerial photograph of a bridge under construction over a body of water. The bridge consists of several long spans supported by numerous concrete piers. In the foreground, a large construction platform is visible with a crane and various construction materials. The surrounding area includes marshland and water. The image is overlaid with a dark green semi-transparent rectangle containing the text.

SECTION 14

ORGANIZATIONAL CHART

14. Organizational Chart:



SECTION 15

MINIMUM PERSONNEL REQUIREMENTS



15. Minimum Personnel Requirements:

MPR No.	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Dusty Bastion, PE	HNTB Corporation	Professional Engineer #36719 - Civil	LA	03-31-2028
2	Dusty Bastion, PE	HNTB Corporation	Professional Engineer #36719 - Civil	LA	03-31-2028
3	Dusty Bastion, PE	HNTB Corporation	Professional Engineer #36719 - Civil	LA	03-31-2028
4	Josh Porter, PE	HNTB Corporation	Professional Engineer #39513 - Civil	LA	09-30-2027
5	Dan Appelbaum, PE	HNTB Corporation	Professional Engineer #38362 - Mechanical	LA	03-31-2028
6	Paul Hunter, PE	HNTB Corporation	Professional Engineer #45076 - Electrical	LA	03-31-2027
7	Christian Brown, PE	HNTB Corporation	Professional Engineer #39217 - Civil	LA	03-31-2027
8	Kate Prejean, PE	HNTB Corporation	Professional Engineer #35036 - Civil	LA	03-31-2028
8	Ryan Felder, PE	HNTB Corporation	Professional Engineer #40154 - Civil	LA	03-31-2028
9	Jared Sommers, PE	HNTB Corporation	Professional Engineer #40978 - Civil	LA	03-31-2027
10	Bradley Holleman, PLS, PE	Forte and Tablada, Inc.	Professional Engineer #47165 - Civil; Professional Land Surveyor #5082	LA	03-31-2027 09-30-2026
11	Douglas Wells, PhD	Coastal Environments, Inc.	N/A	N/A	N/A
12	Christopher Wilson, RPA	ELOS Environmental, LLC	Registered Professional Archaeologist #5660	LA	N/A
13	Sarah Knauer	ELOS Environmental, LLC	N/A	N/A	N/A
14	Basile Dardar	ELOS Environmental, LLC	N/A	N/A	N/A

SECTION 16

STAFF EXPERIENCE



16. Staff Experience:Firm employed by: **HNTB Corporation**

Name	Josh Porter, PE ④	Years of relevant experience with this employer	10
Title	Project Manager	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 2010 / Civil Engineering		
Active registration number / state / expiration date	PE: #39513 / LA / 09-30-2027 LADOTD LTRC Moveable Bridge Inspection Workshop FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges		
Year registered	LA 2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Project Manager; Task Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Accelerated Bridge Construction); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges); MPR ④		
Josh is the project manager of HNTB's current IDIQ Contract for Bridge Preservation Services and has extensive experience in multi-discipline project management and task order management, as well as bridge design, rehabilitation, repair, load rating, inspection and plan production. His experience spans many types of structures, including trusses and gusset plates, precast prestressed concrete (PPC) girders, and curved and straight steel girders. He has been tasked with developing load rating and design models, developing and overseeing the development of bridge plans, cost estimating and benefit analysis, project management, and leading and assisting in the inspection of bridges. He brings extensive experience in working with LADOTD in developing task orders for IDIQ contracts including Alternative Delivery IDIQ, Bridge Preservation IDIQ, Bridge Inspection IDIQ, and Bridge Load Rating IDIQ.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/26-Present	LA 324 over Bayou Teche, St. Mary Parish, Louisiana Project manager for a replacement of a movable bridge. Services include bridge structural design, bridge mechanical and electrical design, road design, property survey and ROW maps, geotechnical exploration and design, and preliminary and final plan development.		
07/24-Present	US 90 Over Mississippi River Bridge (GNO2) Bridge Repairs, New Orleans, Louisiana Project manager for a project to repair the GNO2 bridge. Project involved developing repair plans to address a common issue found throughout the main truss of the bridge. Plans included modifications to the detail, installation of splices to bring the capacity of the members back up to original strength, cleaning, and spot painting.		
02/22-Present	I-10 Calcasieu (HBI) Early Works Package, Calcasieu Parish, Louisiana Project manager on an accelerated, multi-disciplined project to develop an early works package to facilitate construction of the I-10 bridge replacement over the Calcasieu River. During the environmental and procurement process of the Public Private Partnership (P3) for the replacement structure, several constraints were identified that would need to be addressed outside of the approved scope of the P3. This project included rehabilitation of the existing bridge to extend the service life until the replacement was complete, the relocation of a railroad spur shared by Canadian Pacific Kansas City (CPKC) Railroad and Union Pacific Railroad (UPRR), the addition of a temporary structure to facilitate relocation of an existing pipe rack, the addition of a temporary access road to divert traffic during construction of the temporary structure, and multiple intersection modifications to accommodate increased traffic volumes on the detour route. Responsible for coordination between task leads including the structures design team, railroad design team, roadway design team, drainage study and design team, traffic study team, survey subconsultant, geotechnical testing subconsultant. Responsible for all agency coordination including the LADOTD District, LADOTD Headquarters, pipeline owner, and railroad owner. Currently leading construction support effort.		



16. Staff Experience:

12/24-Present	Critical Projects IDIQ, Statewide, Louisiana Design services manager for the Critical Projects IDIQ. Responsible for coordination of task order development and delivery for all task orders for design services for the contract.
06/18-06/22	LA 15 over Boeuf River Bridge, Richland Parish, Alto, Louisiana Project manager for an off-alignment bridge replacement, which included preliminary and final design of the superstructure, substructure, and foundations. Provided engineering construction support, PDA monitoring, and assessment of results. Coordinated with LADOTD district roadway group that designed the new alignment.
12/16-05/19	US 80 over I-20, Ouachita Parish, Louisiana Project task manager for the demolition and replacement of a deficient bridge in northwest Louisiana crossing I-20. Tasked with design checking of the steel girder spans, design of the intermediate bent, design check of the end bents. Utilized accelerated bridge construction (ABC) techniques to develop a construction phasing plan limiting the closure of I-20.
05/20-06/22	LA 3250 I-49/UPRR Overpass Repair, Alexandria, Louisiana Project manager for a repair of a bridge crossing I-49 and the UPRR. Performed the assessment of the damaged structure to determine repair needs. Developed the concept of the replacement utilizing ABC techniques. Led the team in the analysis of the new segment. Oversaw the detailing of the new segment and the outlining of the removal section to allow for seamless placement of the new segment within the footprint of the removed segment.
08/23-Present	Bridge Load Rating Retainer, Statewide, Louisiana Project manager for the load rating of complex bridge structures in Louisiana. Bridge elements evaluated under this contract include: vertical lift spans, pontoons, swing spans, continuous steel plate girders, prestressed girders, reinforced concrete beams, slab spans, pile bents, slab spans, and steel grid decks.
10/16-07/18	Load Rating of Complex Bridges, Rapids and St. Mary Parishes, Louisiana Lead bridge rating engineer for this project which involved the inspection and load rating of two truss bridges: the LA 182 over Charenton Canal Bridge and the Jackson Street Bridge over the Red River. Developed rehabilitation recommendations report for the Charenton Canal Bridge.
03/14-11/15	Load Rating of 125 Bridges, Statewide, Louisiana Lead bridge rating engineer who led the analysis, load rating and report development for 125 bridges throughout Louisiana. The bridges included straight and curved steel I-girder spans, PPC girder spans, reinforced concrete girder spans and slab span superstructures, pile supported substructures with concrete, steel, and timber piles.
06/19-09/20	Calcasieu Load Ratings, Calcasieu Parish, Louisiana Task manager and lead bridge rating engineer on the load ratings of 27 structures, including complex structures, along the I-10 corridor. Structures included haunched concrete girders T-beams, steel girders, prestressed concrete girders.
06/17-11/17	LA 442 over Tangipahoa River Bridge Replacement, Tangipahoa Parish, Louisiana Project task manager for an emergency spot bridge replacement of a bridge with scour concerns caused by the August 2016 flooding. Project included LG girder spans and reinforced concrete caps on steel pipe piles.
06/19-06/21	LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana Task leader for the design and plan development of the slab span portion of the structure from grade to over the levee. This task included 81 slab spans of varying widths and geometries to accommodate the T-intersection at the beginning of the bridge. Responsibilities included preliminary alignment and layout, superstructure design and details of the slab spans, substructure analysis and plan production, preliminary and final plan development, checking plans and design calculations, and developing quantity and cost estimates.
06/19-06/21	LA 3213 Gramercy Truss Bridge Rehabilitation, Gramercy, Louisiana Project manager for a bridge painting and rehabilitation project. Tasks included inspection of the bridge and subsequent repair recommendation report, bridge rehabilitation of the approach spans and main truss spans, and painting of the steel approach spans and main truss spans. Developed the construction cost estimate capturing the cost of the nature of the repairs as well as painting of all steel members on the bridge. Participated in the Value Engineering Study initiated by LADOTD.
11/19-09/20	Off-System Bridge Rating (53 Bridges), Statewide, Louisiana Project manager and lead load bridge rating engineer for off-system load rating task. Led the effort overseeing the team to rate the various structures, which included prestressed girder bridges, rolled I-beam bridges, steel plate girders, and reinforced concrete slab spans.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Todd "Dusty" Bastion, PE ① ② ③		Years of relevant experience with this employer	14
Title	Project Director		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2007 / Civil Engineering		
Active registration number / state / expiration date		PE: #36719 / LA / 03-31-2028; #19341 / AR / 12-31-2027; #21004 / MS / 12-31-2026; #40122 / SC / 06-30-2028; #136915 / TX / 12-31-2026		
Year registered	LA 2011, AR 2020, MS 2012, SC 2022, TX 2020		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Principal-In-Charge; MPR ① ② ③		
Dusty has experience in project management, design, detailing, analysis, inspection, and load rating of bridge structures. His experience includes many types of superstructures and substructures in projects varying from multi-level interchanges to off-system bridge replacements. His responsibilities include structural design, plan development, specifications development, cost estimating, quality control review and project management ranging from standard bridge projects to non-typical accelerated time frame projects. He is proficient with American Association of State Highway and Transportation Officials (AASHTO) LRFD bridge design specifications and experienced in MicroStation, Inroads, ProjectWise, STAAD, Conspan, Mathcad, RC Pier and BrR. He is a former LADOTD bridge design section engineer and he has unparalleled knowledge of LADOTD's plan development and contracting processes. Dusty was the project manger for the two previous bridge preservation IDIQ contracts held with the department, and his understanding of what the department expects and his ability to deliver assignments in a timely manner is unmatched.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/12-Present	I-10 Calcasieu River Bridge Environmental Impact Statement (EIS), Lake Charles, Louisiana Structural lead whose responsibilities include line and grade investigations to determine lengths, widths, and structure types of all bridge structures to be replaced within the study limits. Particular focus has been on the layout of elevated interchanges and developing structural design solutions to minimize or eliminate negative impacts from hazardous chemicals present in the soil. Current efforts include determining structure layouts that interface with at-grade infrastructure to guarantee the final solution ensures traffic and safety improvements.			
04/20-Present	LADOTD IDIQ Contract for Bridge Preservation, Statewide, Louisiana Principal-in-charge for this task order based IDIQ contract, serving in responsible charge of fixed and/or movable bridge design, focused on bridge preservation. Over the two years, he has directly managed the contracting and execution of 14 task orders with more currently in the contracting process. Task orders have consisted of interstate median barrier design and detailing (I-20 in Bossier and I-110 in Baton Rouge), bridge replacements using phased construction (LA 1 over Caddo Lake in Mooringsport), and girder replacements/repairs due to overheight vehicle impacts (Orange Street over I-20 in Monroe, LA 3250 over I-49 in Alexandria, I-12 over LA 1032 in Denham Springs). He has provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight, internal coordination and coordination directly with LADOTD personnel. Due to time-sensitive project delivery needs, many projects required accelerated project delivery and he collaborated with LADOTD task managers to understand schedule needed to ensure no project delivery delays occurred.			
07/17-Present	St. Claude Avenue Bridge Link Pin Repairs, New Orleans, Louisiana Project manager serving in responsible charge of movable bridge design for this bridge rehabilitation project in New Orleans. The St. Claude Avenue Bridge is an approximately 100-year-old strauss-type single-leaf bascule bridge that carries four lanes of vehicular traffic over the Inner Harbor Navigation Canal. These structural and mechanical repairs are required to restore a rotating joint that has deteriorated over time. These repairs will ensure the structure can continue to operate for the foreseeable future. He coordinated all project work and developed plans and specifications for this project. He is also assisting with construction inspection.			



16. Staff Experience:

08/15-04/22	Retainer Contract for Bridge Preservation, Statewide, Louisiana Project manager for this task order based retainer contract, serving in responsible charge of fixed bridge design, focused on bridge preservation. Over the nearly 6.5 years this contract has been active, he directly managed the contracting and execution of 32 task orders. Task orders consisted of bridge rehabs/replacements using ABC techniques (I-20 Rehab in Bossier, US 80 over I-20 in Calhoun, US 90 over LDRR and LA 329 in New Iberia, US 90 over LA 14 in New Iberia, I-10 Slab Spans over Veterans Boulevard in New Orleans), bridge replacements using conventional construction techniques (LA 442 over Tangipahoa River in Hammond, Louisiana 532 over I-20 near Minden), and analysis/rehabilitation of through-truss structures (LA 182 Bridge in Charenton, US 90 Atchafalaya Bridge in Morgan City). He provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight internal coordination, and coordination directly with LADOTD personnel.
04/13-Present	LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana Project manager serving in responsible charge of fixed bridge design, which will eventually connect at-grade LA 1 to the existing Phase 1 structure. His duties include coordination with LADOTD personnel, superstructure development, substructure development, and geometric alignment development. His additional project coordination responsibilities include subconsultants, permits, utilities, electrical/lighting design, ITS design, and tolling system design. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique ABC methods, and environmental regulations. This project is currently under construction and he is leading all construction support services activities.
02/13-06/17	US 90 over LA 14, New Iberia, Louisiana Project manager serving in responsible charge of fixed bridge design, consisting of twin steel plate girder bridges crossing over a busy state highway with insufficient vertical clearance. His duties included structural and geotechnical design oversight, roadway and bridge plan development coordination, cost estimating, specification development, and detailed sequence of construction development. Coordination with a subconsultant performing geotechnical exploration was also required. To mitigate traffic impacts and reduce the duration of construction operations, this project will use ABC techniques. Each two span structure will be constructed off-site and moved into place using Self-Propelled Modular Transporter (SPMT) to ensure that traffic flow will be minimally interrupted. This highway corridor will eventually become Interstate 49, and the new alignment layout will not affect the existing interchange to remain or the underlying roadway.
08/15-05/18	Florida Avenue Electrical and Structural Repairs and Pinion Bearing Replacement, New Orleans, Louisiana Project manager for these two movable bridge rehabilitation projects in New Orleans, Louisiana. The Florida Avenue Bridge is a vertical lift-span bridge owned by the Port of New Orleans, which carries vehicular and rail traffic over the Inner Harbor Navigation Canal. The electrical and structural repairs were required to fix damages caused by Hurricane Katrina and an unrelated vessel impact. The pinion bearing replacement repairs were required to ensure the bridge's continuous operation for vessel traffic along the IHNC. This bearing replacement project was developed and completed in less than two months. Handled all project communication and coordinated all work assignments related to these two projects.
08/17-06/20	Bridge Services IDIQ Master Contract, Statewide, Mississippi Project manager serving in responsible charge for this IDIQ bridge services contract, which has generated 10 work assignments over the past three years. Within this contract, Phases A, B and C assignments have been successfully completed, as well as NBIS bridge inspection of movable structures. Of the 10 work assignments, Dusty has managed six of them, but has been intimately involved in all work assignments issued as part of this very successful IDIQ contract.
11/17-06/20	I-55 Widening over I-220, Jackson, Mississippi Principal-in-Charge for a complex structural analysis and design project. The existing concrete box girder had a 9.4% cross slope and low vertical clearance, requiring replacement to meet traffic capacity needs. HNTB proposed widening the structure using multiple shallow steel plate girders to carry loads while meeting clearance requirements. Construction services included RFI, shop drawing, and contractor submittal reviews.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Hans Hutton, PE, SE		Years of relevant experience with this employer	29
Title	Vice President, Chief Bridge Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		MS / 1997 / Civil Engineering BS / 1990 / Civil Engineering		
Active registration number / state / expiration date		PE: #38204 / LA / 03-31-2028; #52384 / CA / 12-31-2026; #8025 / NE / 12-31-2027 SE: #8025 / NE / 12-31-2027; #081006707 / IL / 11-30-2026		
Year registered	PE: LA 2013, CA 1994, NE 1994 SE: NE 1994, IL 2009		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		QA/QC Manager; Bridge Engineering Services (Design Peer Review)		
Hans is a vice president, HNTB Fellow and chief engineer at HNTB. He has worked with a variety of bridge types including suspension, cable-stayed, arches, trusses, segmental, girder and rigid frames. He has worked with both fixed and movable bridges as well as roadway, railway and pedestrian bridges. He has also worked with a variety of foundations and temporary structures with experience in erection engineering. He has designed bridges over major navigable waterways including the Mississippi, Missouri, and Ohio rivers as well as the intercoastal waterways.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/21-Present	Hernando de Soto Bridge (I-40) over the Mississippi River, West Memphis, Arkansas to Memphis, Tennessee Structural analysis of the main spans of the 1,800-foot, two-span trussed arch bridge across the Mississippi River. After a significant fracture in one of the tie-girders was found during routine inspection, Arkansas Department of Transportation (ArDOT) retained HNTB to inspect and evaluate the bridge. This was an emergency assignment as the state closed the bridge to vehicular traffic and the river to marine traffic. He built a 3-D FE model of the bridge and evaluated the bridge in its fractured state for progressive collapse.			
06/20-06/21	US 169 over the Missouri River, Kansas City, Missouri Lead bridge engineer for this major interchange and Missouri River crossing that included 10 bridges. Two bridges crossed the Missouri river which are over 1,800 feet in length and are comprised of a series of steel plate girder spans and prestressed concrete girder spans. This is a navigable waterway with spans over 450 feet in length. The piers were designed for vessel impact. Two bridges are curved flyovers about 1,500 feet in length that directly connect I-35 with US 169 and are comprised of steel plate girder and prestressed concrete girder spans.			
06/17-06/19	US 181 Harbor Bridge, Corpus Christi, Texas Subject matter expert providing peer review for the replacement bridge design across Corpus Christi Harbor. This includes a 3,289-foot, three-span concrete cable-stayed unit and 7,532 feet of concrete segmental approach spans.			
01/17-12/17	Hale Boggs Memorial Bridge over the Mississippi River, Luling, Louisiana Subject matter expert and field inspector for the in-depth inspection of this cable-stayed bridge. This is a three-span, cable-stayed bridge with a 1,220-foot main span across the Mississippi River. Field work included structural inspection of the cable-stayed unit along with the disassembly and reassembly of the stay-cable friction damping devices.			
02/15-04/16	Bridge over the Missouri River, Sibley, Missouri Engineer of record responsible for developing the railroad bridge concept and performing the final design of the truss spans and the associated substructure for this bridge that extends more than 4,000 feet across the Missouri River. It is composed of 2,000 feet of precast prestressed spans, 400 feet of deck plate girder spans and over 1,400 feet of truss spans, including three 400-foot through truss spans.			



16. Staff Experience:

06/08-06/14	I-70 Stan Musial Veterans Memorial Bridge over the Mississippi River, St. Louis, Missouri Engineer of record leading the design of this 2,700-foot cable-stayed bridge. The three-span, steel, cable-stayed unit incorporated a 1,500-foot main span over the Mississippi River. This bridge incorporated a composite of steel edge girders with a post-tensioned concrete deck. The concrete pylons utilized steel anchor boxes for the anchorage of the stay-cables. This bridge spans a navigable waterway. Structural analyses included detailed erection analyses and nonlinear seismic time history analyses. The project involved crossing 5 active railroad tracks, and close coordination with the railroad was critical to the successful delivery of the bridges and overall project.
02/15-12/15	I-70 Manchester Bridge, Kansas City, Missouri Construction engineering/innovation manager responsible for directing the project team through an investigation of alternative construction methods to determine the most cost-effective methods to design and construct the bridges on this project. This design-build project replaced the twin, 2,500-foot I-70 bridges across the Manchester Trafficway, several railroads and the Blue River. It also replaced the US 40 bridge over the Blue River and rehabilitated the I-70 bridges over US 40. The improvements to the Manchester Trafficway include maximizing the weave/merge lane between the I-70 and I-435 interchange. The project replaced the I-70 bridges without the closure of the I-70, improving safety and one year ahead of MoDOT's schedule. The project involved crossing 6 active railroad tracks, and close coordination with the railroad was critical to the successful delivery of the bridges and overall project.
01/16-12/16	John James Audubon Bridge over the Mississippi River, St. Francisville, Louisiana Subject matter expert and field inspector for the in-depth inspection of this cable-stayed bridge. This is a three-span, 3,185-foot cable-stayed bridge across the Mississippi River. Fieldwork included structural inspection of the cable-stayed unit and the disassembly and reassembly of the stay-cable friction damping devices.
06/05-06/06	US 90 Bridge over St. Louis Bay, St. Louis, Mississippi Project engineer who assisted in the design of this 11,200-foot bridge. This was a design-build project in the wake of Hurricane Katrina. This \$267-million 11,200-foot bridge rises 85 feet above the water and comprises 76 spans, typically 155 feet each. The substructure consists of concrete bents and hammer-head piers supported by concrete displacement piles. The typical superstructure consists of prestressed 78-inch bulb tees, with the main unit consisting of spliced, post-tensioned, 78-inch haunched bulb tees.
01/21-12/21	I-40 over the Mississippi River, Memphis, Tennessee Structural analysis of the main spans of the 1,800-foot, two-span trussed arch bridge across the Mississippi River. After a significant fracture in one of the tie-girders was found during a routine inspection, the ArDOT retained HNTB to inspect and evaluate the bridge. This was an emergency assignment as the State closed the bridge to vehicular traffic and the river to marine traffic. Hans built a 3-D FE model of the bridge and evaluated it in its fractured state for progressive collapse.
03/17-11/19	UPRR Mississippi River Bridge, Clinton, Iowa Engineer of record for the design of the main navigation channel unit, including a 388-foot, triple-track ballast deck through truss supported on cast-in-place concrete piers socketed into the underlying bedrock. The project extends over 18,600 feet of track, including over 5,000 feet of bridge. Most approach bridge spans are steel, ballast deck, and plate girder spans supported on cast-in-place concrete piers. The bridge was modeled in CSI Bridge with a 3D finite element model including frame and shell elements. The model was used for the evaluation of all forces and load combinations as well as erection and dynamic analyses.
01/09-11/09	Canadian Pacific Railway Vertical Lift Bridge over the Mississippi River La Crescent, Minnesota Project engineer who assisted in the final design of the 400-foot vertical lift railroad span that will replace an existing swing span under the Truman-Hobbs Act.
06/96-06/06	US 82 Mississippi River Bridge, Greenville, Mississippi Design engineer responsible for the erection analysis and assisting in the design of the main spans of this 783-meter steel, cable-stayed bridge.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Steven Hague, PE, SE		Years of relevant experience with this employer	39
Title	Vice President, Bridge Group Director		Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization		MS / 1982 / Civil Engineering BS / 1981 / Civil Engineering		
Active registration number / state / expiration date		PE: #28414 / LA / 09-30-2027; #9964 / AR / 12-31-2026 SE: #081005611 / IL / 11-30-2026; #22933 / KY / 06-30-2027; #E-10069 / NE / 12-31-2025		
Year registered	PE: LA 1999, AR 1999 SE: IL 1999, KY 2003, NE 2001	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		QA/QC Manager; Bridge Engineering Services (Design Peer Review)		
Steve is HNTB's Central Division Bridge Leader serving as project manager or bridge task leader for complex bridges throughout the US. In his over 40 years of experience, Steve has become a subject matter expert and trusted advisor for the design, construction and rehabilitation of all types of bridges including roadway, rail and pedestrian; steel and concrete; and fixed and movable bridges. Steve is responsible for managing multiple office/multiple-firm design assignments, which include specialists for tasks as diverse as wind tunnel studies, site-specific seismology, and geotechnical soil and rock remediation. He has developed the ability to review and coordinate a wide variety of disciplines to ensure that all the necessary pieces of complex design come together to successfully complete each bridge project.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/23-12/23	EB SH 114 to EB SH 183 DC (Irving Interchange), Irving, Texas Subject matter expert and analysis of the possible cause(s) of loss of superelevation and vertical misalignment of cross-slope at a three-foot closure pour for a stage-constructed, curved and skewed steel plate girder bridge. This bridge was to be constructed in two stages: Stage 1 to include four girders at the inside radius of the curve supporting a 29'-0"-wide deck, and Stage 2 to add the outside radius of the curve. The two stages were to be joined together with a 3'-0" closure pour. Due to the design speed and radius of curvature, the entire length of the steel unit was to have a 6 percent cross slope. It was observed after completion of the Stage 2 deck that in order to make the closure pour, the cross-slope of the closure pour would have to be as much as 11 percent to join the two stages. Steve's review of the plans and supporting computations demonstrated that designer provided full and complete details for the steel unit and the principal issue was the result of one or a combination of construction errors.			
07/22-Present	US 17/SR 404 Spur Bridge (Eugene Talmadge Memorial Bridge) Major Maintenance Project, Savannah, Georgia Senior structural engineer who performed the proof of concept engineering to demonstrate feasibility and independent design reviewer for this \$160 million major maintenance project. This first-of-its-kind project includes replacing 144 grouted stay cables with a state-of-the-art ungrouted stay system. Stay cable replacement will be followed by modifying the bridge profile to provide an additional 20 feet of underclearance for safe passage of larger vessels into the Port of Savannah. The work included structural analyses for stay cable replacement, adjustment of stay cables for the profile change to increase the clearance over the navigation channel, wind tunnel studies to determine the wind effects on the structure at the revised profile and an assessment of structural demand under the revised wind loads.			



16. Staff Experience:

06/23-06/24	America's River Crossing (I-55) over the Mississippi River, Memphis, Tennessee to West Memphis, Arkansas Bridge task lead for the planning and National Environmental Policy Act (NEPA) document for the replacement of the I-55 bridge. The existing structure was built in 1949, prior to the interstate system and current seismic design provisions. Responsible for coordination with the USCG, TDOT and ARDOT for the bridge type, pier placement and span configuration for this new crossing. The new bridge will feature a 4-lane (plus two auxiliary lanes) cable-stayed bridge with a main span length of 1350 feet.
12/13-09/15	US 84 Mississippi River Bridge Pin and Link Replacement, Natchez, Mississippi Senior technical advisor for replacing the pins and link on the cantilever truss bridge. Steven was responsible for developing the concept to temporarily restrain the bridge supports during the pin and link replacement.
01/16-09/16	SH 249 Direct Connector at Sam Houston Tollway, Houston, Texas: During construction, this 1-mile long direct connector that links the southbound SH 249 with westbound Sam Houston Tollway, was found to have experienced girder rotation and loss of superelevation following deck placement. As a senior technical advisor, Steve was responsible for determining the cause of the problem and developing a plan to restore super elevation to the bridge.
02/01-03/04	Old Mississippi River Bridge at Vicksburg, Mississippi Performed field investigation and evaluation of slope stability and its impact on the east substructure units for the only railroad crossing of the Mississippi River between Memphis, Tennessee, and Baton Rouge, Louisiana.
10/08-07/09	Huey P. Long Bridge Widening, New Orleans, Louisiana Project engineer overseeing the erection engineering and existing bridge analyses for the widening of the Huey P. Long Bridge, a 1934 rail and roadway bridge over the Mississippi River. This bridge included a 1,850-foot, three-span continuous cantilever truss and a 531-foot, simple span truss. The bridge was widened with two additional trusses 50.5 feet outboard of existing trusses, extension of the roadway floorbeams and new portals and sway frames.
09/05-08/08	US 90 Bridge over St. Louis Bay, St. Louis, Mississippi Project design quality control manager for this \$275 million design-build replacement structure over St. Louis Bay. The project featured a 250-foot navigation span over the main channel. This emergency replacement project, as a result of Hurricane Katrina, required opening two lanes over the channel within 18 months.
05/21-Present	Hernando de Soto Bridge (I-40) over the Mississippi River, West Memphis, Arkansas to Memphis, Tennessee Project manager for this critical bridge over the Mississippi River. On the afternoon of May 11, 2021, during a routine inspection of the back-to-back, 900-ft trussed tied arch navigation unit over the Mississippi River, a significant fracture in a section of the fracture-critical tie girder was found requiring immediate closure of the span to highway traffic and the river to navigation traffic. HNTB was asked by the ArDOT to engage immediately with on-site presence to evaluate the fracture and provide subsequent engineering services to work with TDOT's design consultant for the evaluation of the criticality of the fracture and repairs necessary to re-open the bridge to traffic.
06/05-10/06	US 90 Bridge over St. Louis Bay, Mississippi Project design quality control manager for this \$275 million design-build replacement structure over St. Louis Bay. The project featured a 250-foot navigation span over the main channel. This emergency replacement project, as a result of Hurricane Katrina, required opening two lanes over the channel within 18 months.
06/92-06/03	Bill Emerson Memorial Bridge over the Mississippi River, Cape Girardeau, Missouri and Alexander County, Illinois Project engineer and plan coordinator for this 1,150-foot main span cable-stayed bridge over the Mississippi River. This bridge, located in the New Madrid Fault region, was designed to withstand an earthquake of an approximate magnitude equal to 8.5. Also was assigned to perform wind and time history seismic analyses of the main-span unit and Illinois approaches. The navigation unit is supported on a spread footing-type foundation at Pier 2 and dredged caissons at Piers 3 and 4, while the approach bridge is supported on 106 large-diameter shafts drilled through up to 90 feet of alluvial deposits into limestone. Because of the variable water surface elevation of the Mississippi River, it was necessary to construct a causeway and cofferdam for each of the 10 approach span piers located inside the Illinois levee.

16. Staff Experience:			
Firm employed by: HNTB Corporation			
Name	Marc Hoffmann, PE	Years of relevant experience with this employer	8
Title	Project Manager	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		MS / 2018 / Civil Engineering; BS / 2015 / Civil Engineering	
Active registration number / state / expiration date		PE: #44342 / LA / 09-30-2026	
Year registered	LA 2020	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Task Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Bridge Protection Systems); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)	
Marc brings over 10 years of experience in bridge design, inspection, evaluation and rehabilitation. In his tenure, he has gained extensive knowledge of the AASHTO manuals for bridge design, evaluation, and element inspection.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/25-Present	US 80 Bridges near Minden, Webster Parish, Louisiana Project manager for the replacement of four bridges along US 80. Responsible for the coordination, management, and successful delivery of multiple engineering disciplines and subconsultants dedicated to this project. The project includes designing and development of both preliminary and final plans for roadway, bridge, and hydraulics. The project includes a replacement of a historic bridge, requiring a Historical Bridge Matrix Analysis for review and acceptance by SHPO. Subconsultant management includes environmental services tasked with completing the environmental checklist. Responsible for adherence to schedule, proactive communication with LADOTD project manager, and ensuring deliverable requirements are met to LADOTD's satisfaction.		
11/25-Present	LA 124 Larto Lake Bridge and Grade Raising, Catahoula Parish, Louisiana Project manager for the replacement of a deteriorating slab span bridge. Project includes the raising of the roadway elevation by 5 feet over a 0.5-mile length. Several project constraints are present, including an existing flood control structure, constrained ROW limits, an existing detour bridge, and a nearby levee. Responsible for the coordination, management, and successful delivery of both roadway and bridge disciplines. The project includes an extremely aggressive project schedule allowing for only three project submittals from preliminary through final plans. Responsible for adherence to schedule, proactive communication with LADOTD project manager, and ensuring deliverable requirements are met to LADOTD's satisfaction.		
08/24-Present	LA 44 I-10 Roundabouts, Ascension Parish, Louisiana HNTB project manager for bridge services and certain roadway services portion of the project. Project includes the replacement of the LA 44 bridge over Conway Bayou as well as the design of new I-10 on/off ramps for the new LA 44 roundabouts. Bridge services include a site inspection of the existing condition of the bridge, development of a widening versus replacement report for the bridge, load rating analysis of the existing bridges, and bridge Preliminary Plan development. Roadway services include design and Preliminary Plan development of the I-10 on/off ramps. Responsible for adherence to schedule, proactive communication, and ensuring all deliverable requirements are met to LADOTD's satisfaction.		
09/22-02/26	I-12 Hog Branch Replacement, Livingston Parish, Louisiana Bridge task lead and later deputy project manager for the replacement of the I-12 bridge. Project included replacing two adjacent bridges with one bridge to carry both westbound and eastbound traffic, as well as median barrier placement along the project limits. The project included design and final plan development. Coordinated all structural tasks including median barrier design, all superstructure and substructure designs, and all plan development.		



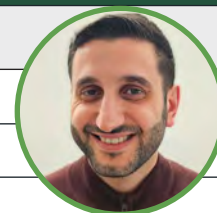
16. Staff Experience:	
02/22-05/25	I-10 Calcasieu (HBI) Early Works Package, Lake Charles, Louisiana Bridge engineer and deputy project manager participating in the designs of the superstructure and substructure for the new 70'-0" steel girder temporary bridge over a piperack trench. Due to the new P3 Calcasieu River Bridge Replacement project, the local gas pipeline owner was required to re-locate its gas pipelines to a new location that did not conflict with the new P3 bridge piers. The final gas pipeline configuration was a piperack trench that conflicted with the existing I-10 on/off ramp new Sampson Street. This required a temporary bridge to be constructed to span the piperack trench on the I-10 on/off ramp until the new P3 bridge is built. Project also included a temporary access road underneath the existing I-10 bridge with low vertical clearance. Marc designed a Crash Beam structure to protect the existing bridge while also providing safety to drivers. Marc served as designer on the project as well as overseeing the final bridge plan production for the project. The project utilized accelerated bridge construction (ABC) techniques by utilizing preconstructed girder and concrete deck segments with ultra high performance concrete closure pours.
02/24-07/24	LA 47 Bayou Bienvenue Bridge Replacement Design, St. Bernard Parish, Louisiana Deputy project manager and bridge engineer overseeing the designs of the superstructure and substructure for the new 320'-0" slab span bridge near Chalmette. Due to the rapidly deteriorating nature of the bridge, accelerated bridge construction (ABC) techniques were incorporated into the final plans by utilizing precast concrete bent caps that were the exact same dimensions for both Phase 1 and Phase 2 construction. Due to the proximity of the low chord to corrosive brackish water, stainless steel reinforcing bars as well as discrete galvanic anodes were also incorporated into the final plans. The project required an extremely condensed schedule with final plans required within six months of the start of the project.
12/24-Present	LA 47 Bayou Bienvenue Bridge Replacement Construction Support, St. Bernard Parish, Louisiana Project manager for the construction support services for the new 320'-0" slab span bridge near Chalmette, LA. As project manager and bridge design engineer overseeing junior bridge engineers, he has been distributing and overseeing structural shop drawings including but not limited to precast concrete bent caps, piles, and metal bridge railing shop drawings. Marc has also been distributing and overseeing RFI reviews as needed.
02/21-12/21	LA 1 Leeville to Golden Meadow Phase 2 Design, Leeville, Louisiana Technical engineer and designer for new two-lane bridge connecting Golden Meadow to Leeville (approximately 8 miles of bridge). The project consisted of PPC girder spans, slab spans, and reinforced concrete substructures and consisted of three different phases: 2A, 2B, and 2C. As a technical task lead and designer on the project, he designed the substructures for Phase 2C as well as produced plan sheets. He also provided guidance on the superstructure design of the slab spans for Phase II C. Models were created for the superstructure and substructure of the bridge using Leap Bridge Concrete, and plan sheets were created using MicroStation. Once final plans were submitted, Marc assisted in the letting support phase by answering contractor questions and providing any necessary plan revisions.
01/22-Present	LA 1 Leeville to Golden Meadow Phase 2 Construction Support, Leeville, Louisiana Technical engineer and deputy project manager for the construction support services of the two-lane bridge connecting Golden Meadow to Leeville (approximately 8 miles of bridge). As a technical engineer on the project, he has been reviewing structural shop drawings including but not limited to girder shop drawings, precast cap shop drawings, and pile shop drawings. As deputy project manager for the project, Marc has been distributing shop drawings for review to different disciplines. Marc has also been answering RFIs including but not limited to pile misalignment, material substitutions, and construction joint placements. When required, Marc has been putting together any required change orders using MicroStation.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Mark Elkassouf, PE	Years of relevant experience with this employer	1
Title	Project Manager	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		BS / 2014 / Civil Engineering	
Active registration number / state / expiration date		PE: #46362 / LA / 09-30-2026	
Year registered	LA 2022	Discipline	Civil
Contract role(s) / brief description of responsibilities		Task Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support)	
Mark works as a bridge engineer in HNTB's Baton Rouge office. He previously worked at LADOTD, where he gained substantial knowledge in bridge engineering. He brings years of experience in bridge design, bridge rehabilitation and repair, and project management.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/26-04/26	LADOTD I-12 Median Barrier Retrofit, East Baton Rouge and Livingston Parish, Louisiana Project manager and EOR responsible for managing/leading the structural design group and the road design group in design and plan development, assisting with design and plan detailing, following project delivery processes, coordinating with the LADOTD project manager, and ensuring quality processes were followed. Due to the 2016 floods, the scope of this project was to have median barrier along much of I-12 in East Baton Rouge and Livingston Parish be replaced at locations where the flood waters were at the highest. The median barrier was to be replaced with hydraulically efficient barrier, a concept and design based on a Texas Department of Transportation (TxDOT) design, with this being the first implementation of its kind. HNTB delivered 100% sealed and signed final plans from notice to proceed (NTP) in three months.		
01/26-Present	LADOTD IDIQ Contract for Engineering and Technical Support Services for Critical Projects, Statewide, Louisiana Bridge review manager, representing LADOTD in the replacement of 21 of 62 bridges by the OLHC to ensure the projects are designed and constructed in a manner that maintains their status for federal aid eligibility based on FHWA and LADOTD standards, and review of serviceability and safety concerns. Management of this team includes leading multi-discipline reviews (bridge, roadway, traffic, hydraulics, and geotechnical), staffing reviews based on program demands to ensure every deliverable is reviewed and comments submitted within seven days. Tasks also include leading coordination efforts between LADOTD, OLHC and district representatives, leading document controls and schedulers to ensure records are kept and properly communicated to all parties, and representing LADOTD in RFIs and comment resolution meetings.		
02/26-Present	LADOTD I-110 North Street to Plank Road, Bossier Parish, Louisiana Project manager for a multi-discipline rehabilitation project on I-110. Scope includes 1.3 miles of pavement rehabilitation, drainage improvements, bridge analysis, updated median barrier, and concrete pier protection with guard rails. This project involves managing and coordinating with multiple disciplines include structural, road, hydraulics, and subconsultants, as well as coordinating with the LADOTD project manager and District.		
01/23-12/25	LADOTD I-12 Hog Branch Bridge Replacement, Livingston Parish, Louisiana Project manager and bridge task manager representing LADOTD for the replacement of two girder bridges with one wide structure that spans the entire width of the corridor to widen the travel lanes in each direction; interstate approach and departure roadways from the bridge site are set for widening, as well as the applicable median barrier along the project. This project began as a bridge widening of each existing structure, but through site research and analysis, the team identified significant scour and geotechnical issues with this approach and developed a plan for replacement. Responsibilities included scheduling, invoicing, coordinating with the design consultant, performing plan reviews, leading project status, and plan review meetings.		





16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Patrick Duffy, PE		Years of relevant experience with this employer	5
Title	Project Manager		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		MS / 2020 / Civil Engineering BS / 2016 / Civil Engineering		
Active registration number / state / expiration date		PE: #45363 / LA / 09-30-2027		
Year registered	LA 2021		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Task Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings)		
Patrick is a project manager within HNTB's Gulf Coast District Bridge Department. He has experience working in traditional bridge engineering services of design, rehabilitation, and load rating. Having worked on both simple and complex bridges throughout the state of Louisiana for the LADOTD, he is familiar with the proper requirements and standards that the LADOTD expects.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/23-Present	IIJA Off-System Bridge Program, District 61, East Baton Rouge Parish, Louisiana Program manager for a \$38.5M off-system bridge replacement program, replacing 13 bridges separated into 10 different projects located throughout East Baton Rouge Parish. This program utilizes federal funding facilitated through LADOTD to replace parish owned bridges. This role includes coordination with LADOTD, East Baton Rouge Parish and other stakeholders, management of multiple subconsultants, delivery of this multi-discipline project, and construction related services. Disciplines include bridge design, roadway design, environmental services, geotechnical design, geotechnical testing, survey, ROW mapping, traffic control, and hydraulics.			
02/22-Present	I-10 Calcasieu (HBI) Early Works Package, Calcasieu Parish, Louisiana Project engineer who served as task lead for the Calcasieu River Bridge substructure modifications and existing bridge repairs. To allow for the new railroad alignment, modifications were required to the substructure of the existing bridge. A complex system involving temporarily supporting the structure and transferring the load to the new structure was designed. Complex Finite Element Analysis was required to design the straddles and jacking connection. Repair plans were developed based on the agreed to repairs from the inspection performed. The scope of the repairs included those necessary to extend the life of the structure for the duration of the replacement schedule and to minimize the maintenance required on the existing structure until it can be retired from service.			
06/25-Present	LADOTD IDIQ Contract for Bridge Preservation, Statewide, Louisiana Task order manager for the LADOTD IDIQ Contract for Bridge Preservation. Acts as point of contact with LADOTD in development of scope and fee for task orders under this contract. Serve as project manager for the Grover Jones Road over Williams Creek and Sidney Leblanc Road over Coulee bridge spot replacement projects. Disciplines included in both projects include survey, hydraulics, road design, and bridge design.			



16. Staff Experience:	
04/21-12/24	LADOTD IDIQ Contract for Bridge Preservation, Statewide, Louisiana Project engineer who performed design and analysis services for the LADOTD IDIQ Contract for Bridge Preservation. Projects under this contract include assessing bridge existing conditions and designing bridge repairs for bridge impact, designing bridge rehabilitation plans including heat straightening, CFRP repairs, concrete deck patching, joint replacement, and bearing replacement. In the I-110 North Street to Plank Road task order he was tasked with assessing bridge superstructure impact damage and designing bridge repairs to the North 19th Street Bridge. This bridge repair project is part of the larger ongoing I-110 corridor improvements project. To assess the impact damage, existing plans and up to date inspection reports were reviewed; a site visit was also performed. A bridge superstructure model was then developed in BrR properly reflecting the bridge in its damaged state. A bridge repair was design for the impacted members which was independently rated by hand calculations. These repairs were then generated in a BrR model that properly reflected the post-repair results. Additional tasks performed under this contract include QC/QA for multiple task orders through final plan development.
08/24-08/25	Load Rating IDIQ, Statewide, Louisiana Project engineer who served as task lead for the bridge load rating of six complex structures. The project consists of analyzing complex bridges with the goal of providing LADOTD with an overall assessment of the current condition of each bridge as well as repair recommendations and plans if necessary. Bridge structure types in this project include swing span, pontoon, and vertical lift. This project included collecting existing bridge plans and inspection reports, determining proper load rating method and procedures on a case-by-case basis for each unique structure type, load rating analysis of the superstructure and substructure of existing bridges, report generation, assisting engineers through the load rating process, and providing QA/QC on all deliverables to the client.
05/24-07/25	US 80 over CPKC, Mississippi Led the engineering team responsible for updating bridge plan sheets in response to technical comments from CPKC. Coordinated design revisions and ensured compliance with stakeholder requirements and standards. This project was commissioned by the Mississippi Department of Transportation (MDOT) and involved close collaboration with railroad representatives to address structural and operational considerations.
04/21-12/21	LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana Bridge engineer on the substructure design team for the elevated bridge intersection connecting relocated LA 1 with the existing road and Phase 2B substructures designed with alternatives for utility considerations. Task leader for load rating of new superstructure and substructure of Phase II C. The project involved elevating an 8.3-mile stretch of two-lane, at-grade, rural State Highway 1 to 22 feet above the rising Gulf of Mexico and surrounding marsh to eliminate frequent inundation and consequential energy production impacts. The construction cost for this project is \$436 million.
02/19-08/19	South Broad Ave over the Pontchartrain Expressway Bridge Load Rating, New Orleans, Louisiana Structural engineer responsible for the load rating and evaluation of the South Broad Ave over Pontchartrain Expressway bridge, a 2589-foot-long steel I-Beam bridge, in New Orleans built in 1951. To properly load rate this bridge, he reviewed the as-built drawings of the bridge, determined the appropriate load rating method and procedures, created 59 unique span and cross girder models in AASHTOWare BrR, and compiled a thorough report. Assumptions made in BrR to accommodate this complex structure were verified using finite element modeling in Midas. This report contained descriptions of the existing bridge and conditions, the procedures used for the analysis, and the load rating results.
07/18-08/19	I-10 High Rise Fire Damage Repair, New Orleans, Louisiana Engineer involved in the design and construction oversight of this project which included the structural repair of bridge superstructure and substructure due to fire damage, structural concrete patching, traffic maintenance, structural jacking, replacement of bearing pads, and application of carbon fiber reinforced polymer.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Mike Perault, PE		Years of relevant experience with this employer	2
Title	Project Manager		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		BS / 2013 / Civil Engineering; BS / 2009 / Construction Management		
Active registration number / state / expiration date		PE: #43851 / LA / 03-31-2028; #139357 / TX / 09-30-2026; #22010 / AR / 12-31-2026; #52329 / AL / 12-31-2027; #98140 / FL / 02-28-2027; #51485 / GA / 12-31-2026; #34113 / MS / 12-31-2027; #92420 / PA / 09-30-2027; #128217 / TN / 04-30-2027		
Year registered	LA 2019, TX 2020, AR 2023, AL 2023, FL 2024, GA 2024, MS 2023, PA 2021, TN 2023		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Task Order Manager; Bridge Protection Systems		
Mike is a project manager and senior structural engineer with experience encompassing a variety of disciplines. These include industrial, civil and structural design and construction; commercial healthcare and hotel construction; marine construction; warehouse construction; construction administration and management; estimating and engineering design; and analysis for steel and reinforced concrete structures and foundations. His efforts have included development of technical procurement documents, review of legal contract documents, participation in confidential meetings, development of construction cost estimates, development of construction duration schedules, and other procurement support activities. He has written performance specifications and technical provisions across various engineering disciplines.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/25-04/26; 04/26-Present	LA 3139 EB Ramp Repair Over LA 3152 NB, District 02, Jefferson Parish, Louisiana Senior engineer who served as project manager for the task order, leading the multidisciplinary efforts for bridge design, roadway, and traffic engineering. Scope included load rating analysis, pre-stressing strand splicing, concrete patching and CFRP wrapping of impact damaged pre-cast concrete bridge girders.			
09/24-Present	East Floodwall Tie-In and Lockport to Larose Reach 1 Environmental Control Structure, Larose, Louisiana Deputy project manager and structures lead providing multidisciplinary engineering and design services for T-type structural floodwalls, levee tie-ins, highway gates, reinforced concrete drainage structure with steel sluice gate, cofferdam structures and access roads.			
12/24-Present	Dumaine Street French Quarter Floodwall Phase 2, New Orleans, Louisiana Project manager and structures lead for geotechnical and structural preliminary engineering design services for the evaluation of existing I-type cantilever floodwalls in the Historic French Quarter and design services to analyze several retrofit options for feasibility and cost analyses.			
01/25-04/26	Design Services (Pier Protection Preliminary Engineering), Little Rock, Arkansas Engineer who assisted with project management and structural engineering of preliminary, conceptual, and final design, as well as construction support services of existing damaged pedestrian bridge pier protection dolphin.			
03/25-09/25	Arlington National Cemetery, Design Services (Southern Expansion Project), Arlington, Virginia Engineer who assisted with structural engineering design services for cemetery boundary retaining wall redesigns required for construction support and coordination with existing construction elements.			
03/26-Present	I-12 at Airline Highway Overpass Repairs, East Baton Rouge Parish, Louisiana Senior engineer serving as project manager, leading the multidisciplinary efforts for bridge design, roadway, and traffic engineering. Scope includes heat straightening steel bridge girders in four I-12 spans over Airline Highway, site specific roadway temporary traffic control and detour plans, and Level 2 Traffic Management Plan.			



16. Staff Experience:	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/25-03/26	I-10 Calcasieu Bridge P3 Owner Verification Reviews, Lake Charles, Louisiana Structural engineer supporting the Calcasieu Bridge P3 owner verification by reviewing the new bridge marine vessel collision study.
09/24-03/26	I-10 Calcasieu Early Works Package, Lake Charles, Louisiana Structural engineer participating in the specialty reviews for the Pipe Rack Relocations early works project. Due to the new P3 Calcasieu River Bridge Replacement project, the local gas pipeline owner was required to re-locate its gas pipelines to a new location that did not conflict with the new P3 bridge piers. The final gas pipeline configuration was a piperack trench that conflicted with the existing I-10 on/off ramp new Sampson Street. This required a temporary bridge to be constructed to span the piperack trench on the I-10 on/off ramp until the new P3 bridge is built. Project also included a temporary access road underneath the existing I-10 bridge with low vertical clearance. Also, designed a replacement Crash Beam frame structure to protect the existing bridge while also providing safety to drivers. New crash beam served to replace the original design that was repeatedly hit due to over-height vehicles underestimating their clearance needs.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Manab Medhi, PE, SE	Years of relevant experience with this employer	18
Title	Bridge Group Director	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	MBA / 2014 ; MS / 2008 / Civil Engineering; BS / 2004 / Civil Engineering		
Active registration number / state / expiration date	PE: #45083 / LA / 03-31-2027; #53297 / MO / 12-31-2027 SE: #081008232		
Year registered	PE: LA 2020, MO 2024 SE: IL 2018, WA 2014	Discipline	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Movable Design/Construction Engineering Support)		
Manab is the bridge department manager in HNTB's Kansas City, Missouri office with more than 18 years of experience in bridge design. He has worked with a variety of bridge types, including highway and rail, delivered using DBB, DB and construction manager/general contractor (CMGC) delivery methods. His experience primarily includes project management, structural design, development of bridge layout, developing construction sequence, reviewing temporary work and construction methods developed by contractors, responding to RFI's. He also provided construction supports during the construction phases of several complex projects that included large scale drilled shaft foundations, curved girders on straddle caps with unique configurations, long span trusses, erection, and balance of bascule spans.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/26-Present	LA 324 over Bayou Teche, St. Mary Parish, Louisiana Senior structural engineer lead for the replacement of the movable bridge over Bayou Teche. As senior structural engineer lead, he is responsible for the design and plan development of all structural components of the bridge replacement, including the superstructure through-girder, channel fender protection system for vessel collision, generator platform, and center rotational pivot pier. He is responsible for ensuring the designs are not only compliant with fixed-bridge standards but also AASHTO and LADOTD moveable bridge standards.		
02/26-Present	US 90 Over Mississippi River Bridge (GNO2) Bridge Repairs, New Orleans, Louisiana Senior structural engineer lead for the fracture critical truss vertical member repair of the GNO bridge over the Mississippi River. As senior structural engineer lead, he is responsible for the design and plan development of repairing the truss vertical members that became corroded at drain hole locations. The repair of these members includes drain hole modification details, splice plate placement over the corroded areas to restore the capacity of the member, and painting of the splice plate to prevent future corrosion. Designs followed requirements for fracture critical bridges, AASHTO, and LADOTD bridge design manuals.		
06/19-Present	Bridge 1750.9 over Skykomish River, Gold Bar, Washington Project manager and engineer of record for the project. The project involved evaluation of two alternatives. Alternative 1 aimed to reuse the existing foundation, replace more than 100 years old superstructure reaper clement with a 252-foot through truss and 100-foot deck plate girder spans. Alternative 2 aimed to replace the existing bridge in an offline alignment. HNTB serves as the prime consultant to provide project management, structural design, H&H engineering, survey, develop construction sequence to minimize track outages and assist in USACE permit.		

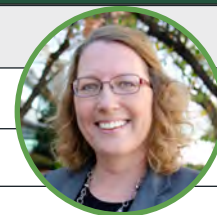


16. Staff Experience:	
07/22-Present	Robert Street Bridge Replacement Independent Design, Kansas City, Missouri Project manager and structural lead for this project involving independent design of a 215-foot single track rolling bascule span in an online alignment. As part of this independent design, HNTB is scoped to perform review of the plans and specifications at each milestone, to perform independent design of the bascule truss, track girder, bascule and rest piers and to review the construction sequence.
02/19-Present	Armourdale and Central Industrial District (CID) Levees Raise, Kansas City, Kansas and Missouri Bridge lead for the task that involves conceptual evaluation and final design of the potential influence of the Levee raise may have on the UPRR Bridge 3 and the MoPac located just upstream of the confluence of the Kansas and the Missouri Rivers in Kansas City, Missouri. The task involves multiple disciplines including bridge, H&H, mechanical, electrical, geotechnical and utility. Following the 1993 flood, the seven levees were studied under Section 216 of the 1970 Flood Control Act. The behavior of the existing bridges was analysed under hydraulic and debris loadings based on AREMA, ASCE, and FHWA guidelines.
08/19-Present	Bridge 72.8 White Salmon River, Underwood, Washington Project manager and engineer of record for the project, which involves conceptual engineering and development of initial schemes that includes different foundation types like drilled shafts, micropiles, driven piles and superstructure types like plate girders, through plate girders and through trusses. After the selection of the alternative, HNTB serves as the prime consultant to provide final design, H&H engineering, survey, geotechnical investigation, develop construction sequence to minimize track outages and assist in USACE and USCG permit.
01/10-04/12	US 90 Huey P. Long Bridge over the Mississippi River Widening, New Orleans, Louisiana Assisted in the design of gusset plate connections for the truss and pile driving templates.
02/24-09/24	Bridge Through Plate Girder (TPG) Standards, Fort Worth, Texas Project manager who worked with BNSF to develop the design and plans for a TPG standard with design considerations that would allow it to be modified for use in any bridge superstructure replacement. Though this standard was developed to be used in an emergency, HNTB made the design efficient for a 150-foot-long span that has the ability to adapt to any span lengths less than that. The design and details allow it to fit any span length between 75 feet and 150 feet with minimal modification. The TPG standard was designed and detailed with the understanding that major components of a span could be fabricated without consideration of a specific location and placed into storage. If an emergency bridge replacement is necessary, this complete fabrication could then be modified to fit a variety of span length and skew configurations. A unique feature of this design is the ability to adapt the standard to variable skew angles, ranging from no-skew up to a maximum skew of 60 degrees.
07/24-12/24	Flood Impacted Bridge 2001-518.9 Replacement over the Big Sioux River, Sioux City, Iowa Project manager for the collapse of the BNSF bridge due to extreme flooding, a significant incident with serious consequences for local businesses and transportation networks. As part of the project, HNTB provided construction support during the demolition of the existing bridge, conceptual evaluation of the replacement alternative and final design of the replacement of the existing bridge. The main span of the new bridge, a 175-foot long through plate girder, stands as the longest such span in BNSF's system. To meet the aggressive schedule, HNTB delivered the steel design early as a separate package, allowing construction to proceed without delay. The new pier foundation rests on large diameter drilled shafts, providing the necessary structural support for the replacement bridge.
03/18-09/18	Bridge 1.96 over Roosevelt Road, Chicago, Illinois Project manager and EOR for the project that consists of replacement for Bridge 1.96 over Roosevelt Road on the Rockwell Subdivision. Developed the bridge layout and construction sequence that minimizes track outage and directly supervised the design and plan development of the bridge plans. The proposed replacement structure is a TPG bridge carrying the existing track on its current horizontal alignment, with a provision of addition of a new track in the future. Developed the work plan per the project budget and schedule.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Natalie McCombs, PE, SE, ENV SP		Years of relevant experience with this employer	30
Title	Senior Technical Advisor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 2007 / Civil Engineering; BS / 2001 / Civil Engineering		
Active registration number / state / expiration date		PE: #28632 / MS / 12-31-2027; #135439 / TX / 07-31-2028; #18629 / KS / 04-30-2027 SE: #31244 / OK / 08-31-2026 ENV SP: 2013		
Year registered	2005	Discipline	Structural	
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Fixed Design/Construction Engineering Support)		
Natalie is a senior technical advisor with over 29 years of experience, including five years as a bridge engineering technician. Recognized as an HNTB Associate Fellow in 2019, she is celebrated for her deep technical expertise and regional experience. Known for her collaborative leadership style, Natalie integrates her strengths in positivity, inclusiveness, learning, empathy, and development. Her project portfolio includes analysis and design of structures, with a focus on tied-arch and deck-arch bridges, cable-stayed bridges, straddle bents, unique structures, curved girder bridges, and conventional I-girder bridges. She has contributed to projects involving vessel collision and river navigation. Natalie is dedicated to industry advancement, volunteering since 2012 with the National Steel Bridge Alliance (NSBA), Vice-Chair of the NSBA Collaboration since 2025 and serving on the NSBA National Technical Committee since 2024. Her collaboration brings together steel industry professionals including designers, erectors, fabricators, and researchers to develop guidelines that improve project efficiency across the US. She writes, edits, and reviews documents for several task groups, including erection, design, constructability, analysis, repair, and retrofits. She has worked on published and in-development documents and serves on the NSBA National Technical Committee, which advises NSBA on industry priorities. She has been active in planning the World Steel Bridge Symposium and has contributed her expertise to designing footbridges for Bridging the Gap Africa since 2016.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/19-4/25	US 80 over CPKC Railroad, Brandon, Mississippi Senior technical advisor for the bridge type study. The client requested a study to determine a shallow structure that could be constructed while maintaining traffic and would fit within the railroad closure windows. The type study included an ABC technique to build a precast concrete arch superstructure with short railroad closures. Shallow steel plate girders and adjacent concrete box beams were also considered in the report. The client selected the precast adjacent box beam bridge and preliminary plans were prepared. The project continued into final design. The bridge crossed over the CPKC Railroad and spanned the railroad right away. The railroad corridor was improved by regrading the slopes and satisfy the railroad requirements. HNTB was contracted to produce Phase B bridge plans. This design utilized the layout and PPC box beams from the Phase A plans. Every effort was made to stay out of the railroad ROW below the bridge, so a unique span configuration was used utilizing a 26-foot jump span and a 117-foot main span. Due to the length of the main span and the structure type, additional prestressing strands and haunch was required. The team is currently working toward draft final plans.			
06/19-Present	I-44 over UPRR/Black Gold Drive, Oklahoma City, Oklahoma Senior technical advisor and engineer of record on the study phase, including preliminary and final design. The study included evaluations to determine the most cost-effective bridge construction method to erect the bridge while minimizing traffic impacts. The study included options for traditional bridge construction, ABC using self-propelled modular transporters, and prefabricated bridge element systems. The design solution consisted of new prefabricated bridge element superstructure on top of rehabilitated and widened piers. Each superstructure prefabricated bridge element consists of two steel I-girders and a slab and used ultra-high-performance concrete (UHPC) between the segments. The bridge spans over the UPRR and has piers in the railroad ROW. HNTB worked with UPRR to limit impacts to the railroad by using prefabricated superstructure elements, adding a crashwall, adding MSE walls to remove the existing embankment from ROW, and coordination meetings to work towards a resolution to proceed with the project.			



02/17-04/22	I-20 Eastbound Bridge over I-55 South/Illinois Central Railroad, Jackson, Mississippi Technical lead for the value engineering study of a four span, 12-foot-deep curved structural steel plate girder bridge. The value engineering study resulted in the proposition of 150-foot prestressed concrete beams with post-tensioned straddle capbeams, which simplified the construction process and reduced the road closure from weeks to occasional nightly closures. This approach ultimately improved traffic flow and saved \$19 million. Project manager, engineer of record and technical bridge lead for the final design of a 15-span prestressed concrete beam bridge, with varying skews and post-tensioned capbeams that resulted from a value engineering study. The bridge crossed over the Illinois Central Railroad and piers were located in the railroad ROW. Innovations were implemented that included the longest prestressed beams in the state to span over the railroad clear zone, slope stability piles, regrading and underdrains were installs in the embankments adjacent to the railroad to improve the railroad corridor. The bridge included concrete post-tensioned concrete straddle capbeams to span over the roadways while limiting the vertical profile above. Duties performed include project coordination with the client, coordinating the disciplines and leading the technical decisions and design of the project. Additional work for construction services including RFI reviews, shop drawing reviews and additional contractor's submittal reviews.
11/17-06/20	I-55 Widening over I-220, Jackson, Mississippi Project manager, engineer of record and technical bridge lead for the complex structural analysis and design project. The existing concrete box girder structure had a 9.4% cross slope and a low vertical clearance, and the client was told that this must be replaced to provide the adequate traffic capacity. HNTB proposed a way to widen the structure with multiple shallow steel plate girders to carry the load and meet the required vertical clearances. Additional work for construction services included RFI reviews, shop drawing reviews, and additional contractor's submittal reviews.
10/24-Present	I-49 over the Arkansas River, Ft. Smith, Arkansas Bridge technical lead and engineer of record for preliminary and final bridge design. The project includes 17 bridges, 33,100 linear feet of bridge, 202 spans and is the equivalent to 78 two-, three-, or four-span units. The main span unit of the river bridge consists of a four span steel I-girder bridge with a maximum span of 440 feet over the McClellan-Kerr Arkansas River Navigation System, a navigable waterway. The project includes two-, three-, or four-span bridge units with primarily steel I-girder bridges with a prestressed beam alternate for three of the bridges. Efforts included proposing a river navigation study to the USCG to right size the navigation channel. The study involved coordinating and working closely with the USCG to determine the criteria and parameters. Organized, monitored the study of the subconsultant, the Seamen's Church Institute, a mariner navigation training and simulation organization. Performed the vessel collision calculations and lead the design of the river piers that included the vessel impact. The river bridge also carried a 36-inch diameter waterline across the bridge. Led the coordination of the structural details for ARDOT.
06/22-10/22	BNSF Bridge 81.4 over the Cowlitz River, Olequa, Washington Analyst of data obtained by BDI. Responsibilities included model checking the dynamic model that was used to verify the vibrations for the bridges due to live load displacement. A live load displacement monitoring system was developed and collected by BDI. It included laser displacement sensors and accelerometers. The data collected included various speeds and train loading conditions and was used to compare to the structural models. HNTB designed the replacement of Bridge 81.4 as part of BNSF's Heavy Bridge Replacement Program. The replacement design consisted of 140- to 200-foot deck plate girders, prestressed double-cell box spans supported by piers with drilled shaft and pile in an offline alignment. HNTB's key staff performed preliminary and final design and coordinated with subconsultants for geotechnical investigations, underwater inspection, survey, and with BDI for the in-service deflection monitoring of the bridge. BNSF wanted to measure live load deflections as trains passed over the newly constructed bridge. HNTB needed firm measurements and, BDI was able to deploy laser displacement sensors in an effective manner that met the needs of both HNTB and BNSF. These sensors turned out to be particularly useful for this application where a frame of reference was difficult to implement. A live load deflection monitoring program was developed for the project to measure the displacement in the vertical and horizontal direction. The field results were compared to the design model to determine live load deflections for passing BNSF trains at various speeds. Field deflection readings were collected by BDI via multiple bridge accelerometers for multiple trains covering a variety of train speeds and weights.
03/17-09/17	Bent 22 Capbeam, Austin, Texas Technical lead for the structural analysis and design of a steel box girder straddle capbeam replacement. During construction, the contractor elected to use a steel box girder in place of the concrete post-tensioned box girder straddle capbeam. The box girder was redesigned in a short time frame to meet the clients' needs.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	John Bernard, PE		Years of relevant experience with this employer	28
Title	Technical Advisor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 1998 / Civil Engineering		
Active registration number / state / expiration date		PE: #31026 / LA / 03-31-2028 ; #19068 / MS / 12-31-2027		
Year registered	LA 2004, MS 2009		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Accelerated Bridge Construction); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings)		
John's experiences include bridge design, widening, repair, rating, inspection, construction support and plan preparation, as applicable for steel trusses, movable bridges, curved and straight plate girders, prestressed girders, and timber structures. He performed many various bridge inspections including five major Mississippi River crossings. He is experienced with major Mississippi River bridge repair plans and construction inspection. He has performed many non-bridge structural designs and repairs, such as retaining walls, floodwalls, floodgates, culverts, etc.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/22-05/25	I-10 Calcasieu (HBI) Early Works Package, Calcasieu Parish, Louisiana Lead design engineer responsible for the footing and straddle bent design of a straddle bent that ties into the existing I-10 Calcasieu River Bridge in order to span over a relocated railroad spur. Also lead designer for the 70'-0" steel girder temporary bridge that spans over a relocated gas piperack trench on the I-10 on/off ramp near Sampson Street. Both the railroad spur and gas pipelines were required to be relocated in order to not interfere with the new P3 Calcasieu River Bridge. The temporary bridge utilized accelerated bridge construction (ABC) techniques by utilizing preconstructed steel girder and concrete deck segments with ultra high performance concrete closure pours.			
04/13-Present	LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana Lead design engineer for this bridge project, which will eventually connect at-grade LA 1 to the existing Phase 1 structure. His duties include coordination with LADOTD personnel, superstructure development, substructure development and geometric alignment development. His additional project coordination responsibilities include subconsultants, permits, utilities, electrical/lighting design, ITS design and tolling system design. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique ABC methods, and environmental regulations.			
12/11-08/18	I-20 Overpass Rehabilitation, Bossier City, Louisiana Lead design engineer responsible for inspection and repair plans for five, twin, steel-span and two concrete span bridges (Westerfield to Industrial). The project included many significant scope changes, including replacing rocker bearings, steel plate expansion joints, end bent backwall using precast sections, approach slabs (precast and CIP), bridge barriers and roadway median barriers, bridge barrier retrofits, deck overlay, steel repainting, and concrete repair.			
02/24-Present	LA 47 Bayou Bienvenue Bridge Replacement, St. Bernard Parish, Louisiana Lead design engineer of the superstructure and substructure for the new 320-foot slab span bridge near Chalmette. Due to the rapidly deteriorating nature of the bridge, John incorporated ABC techniques into the final plans by utilizing precast concrete bent caps that were the exact same dimensions for both Phase 1 and Phase 2 construction. The project requires the bridge to be constructed in phases, and John was responsible for identifying the phasing locations and layout for the bridge portion of the project. The project is currently in construction.			



16. Staff Experience:	
09/21-Present	I-110 North Street to Plank Road, East Baton Rouge, Louisiana Lead design engineer who designed and developed plans for soil-founded, grade separated (up to 8 feet) cantilever retaining walls with traffic barriers, and steel girder repair due to vehicle impact damage using heat straightening and cover plates.
09/20-04/21	Caddo Lake Bridge (HBI), Caddo, Louisiana Designed superstructure, non-standard approach slabs and guardrail. He also developed all bridge plans. The new 2,050-foot prestressed girder bridge replaces the existing bridge using phased construction.
10/18-3/19	US 90 LDRR and LA 329 Overpass Rehab, Iberia Parish, Louisiana Lead design engineer responsible for developing repair plans for ABC using precast end bent backwall replacements under phase construction. Other repairs included approach slab, concrete patching, anchor bolts, joint seals, and bearing pads.
12/11-08/18	I-20 Overpass Rehabilitation, Bossier City, Louisiana Lead design engineer responsible for inspection and repair plans for five, twin, steel-span and two concrete span bridges (Westerfield to Industrial). The project included many significant scope changes with repairs including replacing rocker bearings, steel plate expansion joints, end bent backwall using precast sections, approach slabs (precast and CIP), bridge barriers and roadway median barriers, bridge barrier retrofits, deck overlay, steel repainting and concrete repair.
02/16-05/17	US 90 over LA 14, Iberia Parish, Louisiana Lead design engineer for superstructure and final plans development for a 49-degree skewed, steel plate girder superstructure (two spans at 120 feet). Plans include phased construction and ABC methods with a staging area for off bridge construction of the superstructure. Steel beams designed with CSi Bridge.
09/24-Present	I-12 over Hog Branch, Livingston, Louisiana Lead design engineer for the superstructure, substructure and non-standard approach slabs for the new I-12 bridge over Hog Branch. The project requires the bridge to be constructed in phases, and John is responsible for identifying the phasing locations and layout for the bridge portion of the project. The new bridge is 125-foot wide with a median barrier and also utilizes link slab spans on precast concrete girders
08/18-08/23	LA 15 over Boeuf River Bridge, Richland Parish, Louisiana Lead design engineer for the superstructure and substructure of the new LA 15 bridge over Boeuf River. The new bridge utilized precast concrete girders and concrete bent caps. Girders were designed utilizing LEAP Bridge Concrete, and the substructures were designed using RC Pier. John also oversaw the plan production for the project.
03/06-07/08	I-49 Connector Phase II Functional Plan, Lafayette, Louisiana Performed preliminary bridge layout and assisted with preliminary cost estimates for the future 5-mile corridor of I-49 from I-10 to the Lafayette Regional Airport. The project includes mainline freeway structures at 3.1 miles elevated; one 3-level directional interchange at 1.5 miles elevated; mainline ramp structures at 1.4 miles elevated; and associated railroad structures at 0.1 miles elevated
03/07-05/17	I-10 Calcasieu River Bridge EIS, Lake Charles, Louisiana Developed preliminary bridge layouts for various vertical clearances of the main channel span and provided cost estimates.
05/16-06/18	US 84 Mississippi River Bridge Pin and Link Replacement, Natchez, Mississippi Designed and developed repair plans to replace truss links at six locations (U19 and U69 upstream and downstream, U29 Upstream, and U49 Downstream) of a primary link system that supports suspended spans. Repairs required modification of the existing truss, the design of temporary post-tensioning restraining systems, and design of new links and pins. Plans include repainting the structural steel and navigation gauge. Performed design and construction inspections.
01/17-04/17	I-10 from SR 57 to the Alabama State Line, Jackson County, Mississippi Developed concept plans for interstate widening, including three alternates, phase construction, PPC girder spans, voided slab spans, and replacement of a 2-beam, steel box girder span with new steel plate girders.

16. Staff Experience:			
Firm employed by: Forte and Tablada, Inc.			
Name	Joffrey Easley, PE	Years of relevant experience with this employer	19
Title	Project Manager	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		MS / 2003 / Civil Engineering; BS/ 2000 / Civil Engineering	
Active registration number / state / expiration date		PE: #31542 / LA / 03-31-2027 ATSSA Traffic Control Supervisor Refresher - LA State Specific ATSSA National Flagger FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges LADOTD Maintenance and Rehabilitation of Historic Bridges	
Year registered	LA 2004	Discipline	Civil
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/22-Present	Retainer Contract for Bridge Load Rating Services, Statewide, Louisiana Project manager, load rating engineer, and team leader for two task orders under a load rating retainer contract to perform a load rating for numerous bridges that have experienced a condition drop due to deterioration. The load ratings are being performed in accordance with LADOTD BDEM.96 - Publication of Load Rating, Posting and Strengthening Standard Operating Procedure (SOP). Task order 1 is for the load rating of 95 on-system slab span bridges that have experienced a condition drop since the last load rating. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting. Task order 6 is for the load rating of approximately 65 on-system girder bridges that have experienced a condition drop since the last load rating. Bridges vary from small bridges built using LADOTD Standard Plans to complex urban bridges several-thousand feet long. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting. Task order 10 is for the load rating of approximately 75 on-system bridges. Bridges include precast and CIP slab spans, CPM and box culverts, concrete and steel girder spans, and complex major river crossings. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting.		
03/23-05/25	E Lewis Street Bridge Upgrades, Lafayette, Louisiana Project manager for a multi-phase project involving the inspection, load rating, and development of rehabilitation plans for a steel girder and slab span bridge that serves the University of Louisiana at Lafayette. Load rating utilized material testing and a 3D laser scan to determine appropriate properties to consider for the load rating, which resulted in the removal of a three-ton posting requirement. To improve the long-term performance of the bridge, rehabilitation plans are being developed, including strengthening of the steel girders, concrete spall and cracking repairs, a urethane-epoxy overlay of the bridge deck, and sidewalk repairs.		



16. Staff Experience:	
09/23-Present	T-1 Steel Bridge Inspections, Statewide, Louisiana Project manager for two task orders under a load rating retainer contract to perform ultrasonic testing on several bridges across the state in accordance with Federal Highway Administration (FHWA) requirements. Testing is required on all non-redundant tension members composed of T-1 steel with complete joint penetration (CJP) butt welds that were fabricated without a fracture control plan (FCP). Task order 7 is for the testing of the LA 47 bridge over the Mississippi River Gulf Outlet, which is commonly referred to as the "Green Bridge". The main span of this bridge is a box-shaped tied arch span with deck truss flanking spans. Ultrasonic testing of 156 welds, primarily located in the tie girders, was required. Multiple rejectable defects were identified. Many of the defects were removed by using an annular cutter, but two welds contained multiple deficiencies. Repair options for these welds are being coordinated with FHWA and LADOTD and are being developed by WJE. Task order 8 is for the testing of the US 90 bridge over the Atchafalaya River in Morgan City and the I-20 bridge over the Mississippi River in Vicksburg. Both bridges are cantilevered through trusses composed of fabricated I-shapes. The US 90 bridge and the I-20 bridge contain 108 welds and 68 welds that require testing, respectively. Weld testing of both bridges is complete and repair options are currently being developed to mitigate rejectable indications.
03/18-05/22	Retainer Contract for Off-System Bridge Load Rating, Statewide, Louisiana Project manager, load rating engineer, and team leader for a retainer contract that includes multiple task orders to inspect and load rate off-system bridges and culverts across the state. Task order 1 includes the inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings, and truss bridges. Task order 2 is the inspection and load rating of approximately 200 off-system bridges, consisting primarily of slab spans. Task order 2b and 3 are the inspection and load rating of approximately 200 culverts that meet the requirements to be considered a bridge across the state. Task included the development of unique inspection techniques utilizing 3D laser scanning and sonar for the inspection of these structures. Task order 4 is the inspection and load rating of 340 off-system bridges, consisting primarily of slab spans, but also including concrete and steel girder spans, included the Linwood Avenue bridge over multiple railroad tracks in Shreveport. The bridge is near the I-49/I-20 interchange and is composed of steel girders, steel bent caps, and steel column assemblies. Because existing plans were not available, 3D laser scanning was utilized to capture complex geometry and member sizes that were then utilized in the load rating and in the development of load rating plans. The inspection also included the use of an ultrasonic thickness gage to verify member thickness, as well as detailed measurements to determine section loss at the steel column bases. Task order 5 included instrumentation and load testing of several slab span bridges and metal culverts with our subconsultant, BDI. These structures were load tested after the original load ratings resulted in a load posting (or in some cases a closure) using conventional load rating procedures. Based on the results of the load testing, the load posting requirement was removed on all bridges and significantly increased or removed on all culverts. The results of the load testing were subsequently used to load rate and remove the posting requirements on several additional similar bridges.
02/22-Present	Load Ratings of Parish Owned Bridges, Ascension Parish, Louisiana Project manager and certified bridge inspector for a General Services Agreement to provide load ratings of Parish-owned bridges on an as-needed basis. Tasked with inspecting roughly 15 task orders, performing a condition assessment, and providing a load rating report in accordance with LADOTD requirements for off-system bridges. Other task orders have been to inspect, determine rehabilitation details, and, develop construction plans for the rehabilitation of bridges with critical findings based on bi-annual inspections by LADOTD when requested.
02/22-12/23	Contract for Bridge Engineering Services, Livingston Parish, Louisiana Project manager and certified bridge inspector for a General Services Agreement to provide bridge engineering services for the off-system bridge inventory. Task orders 1, 2, and 3 are for the inspection, condition assessment, load rating, and submittal of a Bridge Evaluation Report for several single-span timber bridges. Task order 4 is to provide consultation related to the selection of bridges to be replaced under the IIJA off-system bridge replacement program. Task order 5 is for the load rating of several bridges that require a re-rating following a Condition Rating drop or deterioration since the last inspection. Task order 6 is for the inspection and development of repair details for a slab span bridge to address decay of the timber bent caps and piles.
06/24-Present	Gurney Road Bridge Replacements, East Baton Rouge Parish, Louisiana Bridge project manager for the replacement of two bridges. Managed the design and load rating of the replacement concrete slab span bridges, which included sidewalks for pedestrian use.
10/20-02/21	I-10 Permit Vehicle Load Rating, Orleans Parish, Louisiana Project manager for a permit load rating of multiple existing bridges on I-10 near Lake Pontchartrain constructed of steel girder spans and concrete pile bents. Worked with the contractor to develop requirements to allow for the crossing of cranes used during the construction of replacement bridges.

16. Staff Experience:

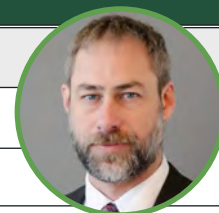
Firm employed by: HNTB Corporation

Name	Christian Brown, PE 7		Years of relevant experience with this employer	33
Title	Senior Project Director		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 1993 / Civil Engineering; BS / 1992 / Architectural Engineering		
Active registration number / state / expiration date		PE: #39217 / LA / 03-31-2027; #20695 / CT / 01-31-2027; #18125 / IA / 12-31-2027; #30194 / MO / 12-31-2027; #11748 / NE / 12-31-2027; #86839 / OR / 12-31-2027		
Year registered	LA 2014, CT 1999, IA 2006, MO 1999, NE 2006, OR 2012		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Movable Design/Construction Engineering Support); Bridge Engineering Services (Bridge Protection Systems); MPR 7		
Christian's specific area of expertise includes the design of movable bridges, having directly managed movable bridge design, rehabilitation and construction projects for the last 32 years. He currently serves as HNTB's national movable bridge practice leader. In this role, he partners with HNTB's structural, mechanical and electrical engineers to deliver a wide array of movable bridge solutions on projects across the US. During his 32 years with HNTB, he has been involved in a wide variety of movable bridge feasibility, design and construction projects. Christian is responsible for projects through their entire lifecycle, including environmental permitting, planning, preliminary and final design and construction phase services. He has worked closely with many agencies in the permitting and construction of river crossings, including the United States Coast Guard (USCG) and USACE.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/09-10/11	Almonaster Avenue over the Inner Harbor Navigation (Strauss Bascule Bridge), New Orleans, Louisiana Project manager and engineer of record in responsible charge of the structural design, including the design of a movable bridge, for the preliminary design, final design and construction phase services for the \$60 million reconstruction of the existing movable span and fixed approach spans. A feasibility study, which included full structural, mechanical and electrical inspections of the Strauss Bascule Span and fixed spans alternatives analysis, constructability reviews, construction cost estimates, construction schedules and final recommendation report was followed a final environmental assessment, including consultation with the state historic preservation office and USCG.			
01/12-01/14	Belle Chasse Tunnel and Bridge (LA 23) Replacement, Plaquemines Parish, Louisiana Project manager responsible for the concept development, alternatives analysis, and preliminary engineering associated with the reconstruction of the Gulf Intracoastal Waterway crossing. The existing facility consists of a vertical lift span carrying westbound traffic and a tunnel carrying eastbound traffic. As part of the Phase I environmental work, HNTB evaluated steel and concrete structure types and span arrangements for high-level fixed bridge alternatives. Movable bridge alternatives included vertical lift spans and double-leaf bascule spans. The Phase I work included providing support for the NEPA environmental document, development of construction cost estimates and schedules and preliminary plans. Also, due to the site constraints, a detailed construction-phasing scheme was also developed with close coordination with the USCG for the maintenance of navigation traffic.			



16. Staff Experience:	
04/12-04/16	LPV 145 Swing Span Bridge at Bayou Bienvenue Floodgate, USACE - Orleans Levee District, Orleans Parish, Louisiana Structural bridge design project manager, including the design of a hydraulically-driven movable bridge located in St. Bernard Parish, Louisiana, in Bayou Bienvenue. The bridge adjacent to the existing sector gate control structure will serve as critical northern access to the LPV 145. That was previously dubbed an island as Bayous Bienvenue, and Dupre framed it. The 140-foot bob tail swing span bridge comprises a welded composite steel thru girder system that swings in and out of place; concrete approach spans are supported by prestressed concrete pile bents that tie back to existing grade with earthen embankments.
09/14-Present	New Haven Line Bridge/NEC WALK Bridge Program, Norwalk, Connecticut Project manager and engineer of record and in responsible charge of the structural design, responsible for the design of a movable bridge, for the \$2.3 billion WALK Bridge Program, leading HNTB through environmental documentation, stakeholder engagement, and all phases of engineering. He directed the NEPA Environmental Assessment in coordination with FRA, FTA, CTDOT and the USCG. The infrastructure improvements encountered several cultural resource sites requiring extensive Section 106 Consultation with the CT SHPO. His leadership guided the design of key program elements including the WALK Bridge replacement, Danbury Branch Line yard improvements, universal interlocking, East Norwalk Station reconfiguration, and multiple undergrade bridge replacements. His work ensures operational resilience and infrastructure renewal along the four-track NEC corridor.
08/18-12/22	NJ Transit Newark Draw (Morristown Line Undergrade Bridge 7.48 Over the Passaic River), Newark, New Jersey Project manager and engineer of record serving in responsible charge of the structural design, of a movable bridge, for the replacement of the movable Newark Draw bridge (Undergrade Bridge No. 7.48 over the Passaic River) for New Jersey Transit, which reconstructs the existing double-track, mile-long rail corridor with a three-track corridor on a new alignment. In addition to the spans over the navigable waterway, the infrastructure improvements include the replacement of seven undergrade railroad bridges within the corridor using accelerated bridge construction techniques and the incorporation of two new universal interlockings. As part of the Preliminary Engineering phase, HNTB collaborated with New Jersey Department of Environmental Protection, US Army Corps of Engineers, and USCG to advance early environmental studies supporting NEPA and the establishment of the preferred alternative.
06/24-07/25	Bush and Gunpowder River Bridges Planning Study, Harford and Baltimore Counties, Maryland Project manager and engineer of record for the planning and conceptual engineering study to replace two aging movable bridges along Amtrak's NEC. He led HNTB's multidisciplinary team in developing technically feasible alternatives to improve safety, reliability and capacity, enabling high-speed rail service up to 160 MPH. He oversaw environmental investigations, stakeholder engagement, track alignment studies and bridge type evaluations, aligned with Amtrak's strategic goals and federal infrastructure priorities. His deep familiarity with Amtrak standards and prior success on similar NEC bridge projects positioned him to drive the study toward successful NEPA and PE phases.
08/09-04/10	South Park Bridge, Seattle, Washington Design quality control manager for final design (PS&E), including the design of a movable bridge, consisting of the \$96.5 million South Park Replacement Bridge and approach roadways located over the Duwamish Waterway on an urban arterial street in the complex, mixed-use communities of Tukwila and urban South Park. The project includes the design of a 230-foot double-leaf trunnion bascule movable bridge founded on sunken caissons, 600 feet of prestressed concrete approach spans and 400 feet of earthen embankments. (King County Department of Transportation).
07/02-08/04	Bridge 282.21 over the Black River, La Crosse, Wisconsin Project manager responsible for the inspection, rating, recommendation report, rehabilitation and replacement design and construction phase services for the \$20 million reconstructed bascule span, approach spans, and improvements to the existing masonry and concrete piers for this \$20 million, fixed and movable bridge reconstruction project constructed on the existing alignment. Complete structural, mechanical and electrical inspections were completed to support the rehabilitation/reconstruction alternatives analysis (AA) included in the recommendation report.
03/09-10/12	Bridge No. 204.66 over the Mississippi River, Burlington, Iowa Project engineer responsible for the inspection, rating, recommendation report, rehabilitation and replacement design and construction phase services for the vertical lift span, lift span towers, approach spans, and improvements to the existing masonry piers for this \$140 million, fixed and movable bridge reconstruction project constructed on the existing alignment. The project was recognized as with a 2012 ACEC Grand Design Award.

16. Staff Experience:			
Firm employed by: HNTB Corporation			
Name	Dan Appelbaum, PE 5	Years of relevant experience with this employer	18
Title	Senior Project Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 2003 / Mechanical Engineering; BS / 2008 / Mechanical Engineering; BS / 2003 / Mathematics	
Active registration number / state / expiration date		PE: #38362 / LA / 03-31-2028; #89100 / FL / 02-28-2027; #6201062290 / MI / 03-11-2028; #54681 / AZ / 06-30-2028; #062069540 / IL / 11-30-2027; #55788 / WA / 03-02-2027	
Year registered	LA 2013, AZ 2013, FL 2020, IL 2017, MI 2015, WA 2018	Discipline	Mechanical Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Movable Design/Construction Engineering Support); MPR 5	
Dan has extensive experience designing mechanical systems for movable bridges and operator houses. He joined HNTB in 2008 and is part of the movable bridge group where he has been involved with the design, inspection and construction of various highway and railroad movable bridge projects.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/26-Present	LA 324 over Bayou Teche, St. Mary Parish, Louisiana Senior mechanical engineer lead designing mechanical systems for movable bridges and operator houses for the replacement of the movable bridge over Bayou Teche. As senior mechanical engineer lead, he is responsible for the design and plan development of all mechanical components of the bridge replacement, including but not limited to the machinery deck, motors, brakes, balance wheels, all couplings and bearings, and all wedges and rollers channel fender protection system for vessel collision, generator platform, and center rotational pivot pier. He is responsible for ensuring the designs comply with all AASHTO and LADOTD moveable bridge standards.		
07/17-06/18	Florida Avenue Electrical and Structural Repairs and Pinion Bearing Replacement, New Orleans, Louisiana Mechanical engineer who produced construction documents on an accelerated time line to replace a damaged pinion shaft bearing for this tower drive vertical lift, carrying both highway and rail traffic over the Industrial Canal.		
04/12-08/16	Bayou Bienvenue Swing Bridge, St. Bernard Parish, Louisiana Mechanical engineer serving as engineer of record and in responsible charge of the mechanical design for this moveable bridge project, including designing mechanical systems for movable bridges and operator houses, and the design of the machinery and hydraulic systems for this new bobtail swing span for USACE. Also provided construction engineering services.		
06/17-11/18	Ted Hickey Bascule Bridge, New Orleans, Louisiana Lead mechanical engineer responsible for the detailed inspection of the mechanical systems of this double leaf bascule bridge over the IHNC. Provided element ratings and prioritized maintenance recommendations.		
03/17-01/18	Danziger Lift Bridge, New Orleans, Louisiana Lead mechanical engineer for the detailed inspection of the mechanical systems for tower drive vertical lift over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.		
06/17-11/18	Judge Seeber (Claiborne Avenue) Lift Bridge, New Orleans, Louisiana Lead mechanical engineer for the detailed inspection of the mechanical systems of this tower drive vertical lift bridge over the Inner Harbor Navigation Canal. Provided element ratings and prioritized maintenance recommendations.		
06/17-11/18	LA 1 Lift Bridge, Lockport, Louisiana Lead mechanical engineer that performed the detailed inspection of the mechanical systems for this tower drive vertical lift span over the Company Canal. Provided element ratings and prioritized maintenance recommendations.		



16. Staff Experience:	
06/17-11/18	Judge Perez Lift Bridge, Belle Chase, Louisiana Lead mechanical engineer for the detailed inspection of the mechanical systems for this tower drive vertical lift span over the Gulf Intracoastal Waterway. Provided element ratings and maintenance recommendations.
05/14-06/18	Wells Street Bridge, Milwaukee, Wisconsin Mechanical engineer serving as engineer of record and in responsible charge of the mechanical design for this moveable bridge project, including designing mechanical systems for movable bridges and operator houses, and the mechanical design for the rehabilitation of the machinery and operator house systems of this towerless vertical lift bridge over the Milwaukee River.
03/08-07/14	South Park Bascule Bridge, King County, Washington Mechanical engineer serving as engineer of record and in responsible charge of the mechanical design for this moveable bridge project, including designing mechanical systems for movable bridges and operator houses, and the design of the machinery and operator house control systems for this new double leaf bascule located in a seismically active region. Performed shop drawing review and construction engineering.

16. Staff Experience:

Firm employed by: Wiss, Janey, Elstner Associates, Inc.

Name	John Williams, PE	Years of relevant experience with this employer	7
Title	Principal	Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization	BS / 1996 / Engineering Science		
Active registration number / state / expiration date	PE: #44300 / LA / 09-30-2026		
Year registered	LA 2020	Discipline	Mechanical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/19-03/24	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, Louisiana Senior mechanical engineer for the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery systems, and development of repairs to restore the bridge's long-term functionality and reliability. Assisted with the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring 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.		
01/20-07/20	St. Claude Avenue Bridge Construction Engineering Services, New Orleans, Louisiana Project manager and senior mechanical engineer for construction engineering services on an expedited basis to assist with the replacement of the second link pins which connect the counterweight truss to the balance link. Services included balance testing, design of the counterweight support system, development of a sequence of work for supporting the structure, unloading and removing the pins, completing the repairs and restoring the bridge to service within a marine navigation closure that was controlled by repairs to the adjacent lock. Mechanical engineering services were provided on an expedited basis due to the short time-period between the award of the project and the start of the marine navigation closure.		
06/20-04/25	Lynn-Saugus Bridge Replacement, Lynn, Massachusetts Movable bridge project coordinator for the construction of a new overhead counterweight bascule span bridge. Services encompassed mechanical and electrical construction work for the construction of this new Dutch-Style bascule span that is not commonly seen in the United States.		
03/22-01/24	Ship Channel Bridge Rehabilitation, Toronto, Ontario, Canada Mechanical engineer of record for the rehabilitation of historic Strauss bascule span. The scope of work included a scope inspection, rehabilitation design of complex span drive machinery, emergency response to a failure resulting in a bent shaft, design for temporary repairs including a temporary winch operating system used to implement repairs without undue impact to marine navigation.		
07/19-01/24	Bridge No. G-05-028, Gloucester Line over Annisquam River, Gloucester, Massachusetts Movable bridge project coordinator who provided construction support services to the contractor throughout construction for work associated with the erection of the bascule leaves, balance calculations and testing and for the installation and alignment of all machinery. Project involved construction of a twin-single leaf railroad bascule. The first leaf was installed and raised within a four-day marine outage.		



16. Staff Experience:	
07/19-12/24	Liberty Bridge Rehabilitation, Bay City, Michigan Lead mechanical engineer and Mechanical Engineer of Record for rehabilitation of all machinery associated with movable span for double leaf trunnion bascule highway bridge.
09/16-06/19	Brighton Road Swing Bridge Replacement, Ontario, Canada Project manager and engineer of record for mechanical and hydraulic machinery for new hydraulically operated center bearing swing bridge. Design responsibilities included finite element analysis of complex weldments and castings for the span drive cylinder brackets as part of the span drive machinery along with the center bearing, eccentric roller end lift machinery, balance wheel system and centering lock. Managed a team of engineers providing comprehensive construction services including shop drawing review, review of installation procedures, shop inspection, site inspection and witnessing and acceptance of commissioning.
10/14-07/19	St. Peters Canal Swing Bridge Replacement, Cape Breton, Nova Scotia, Canada Project manager and engineer of record overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center bearing swing bridge. Responsibilities included design and backchecking of design calculations, plans preparation and detailing, and 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.
07/14-02/18	Burlington Canal Lift Bridge, Hamilton, Ontario, 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 bridge. The electrical scope of work included complete replacement of the electrical power and control systems for the 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.
03/10-11/17	Sir Ambrose Shea Lift Bridge Replacement, Placentia, Newfoundland and Labrador, 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 calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed machinery base plates, 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.
04/03-06/17	Asset Management Bridge Inspections, District 4 and District 5, Florida Project manager and senior mechanical engineer for mechanical inspections of 37 movable bridges in District 4 and 12 movable bridges in District 5 as part of the asset management program. Mechanical inspections of the movable spans are done annually and include a thorough visual inspection, measurements and calculation of gear wear and remaining tooth thickness, bearing clearance and alignment measurements, span lock clearance and alignment measurements, condition rating of all mechanical machinery and Pontis-style reporting. The firm is also on call for emergency inspections, post rehabilitation inspections, post repair inspections and miscellaneous design services.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Paul Hunter, PE 6		Years of relevant experience with this employer	14
Title	Senior Project Engineer		Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization		BS / 1993 / Electrical Engineering		
Active registration number / state / expiration date		PE: #45076 / LA / 03-31-2027; #16326 / CA / 03-31-2027; #6201062332 / MI / 03-11-2028; #29901 / MO / 12-31-2026; #18692 / OK / 04-30-2028		
Year registered	LA 2020, CA 2000, MI 2015, MO 1998, OK 1998		Discipline	Electrical Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Movable Design/Construction/Engineering Support); Bridge Engineering Services (Roadway Lighting); MPR 6		
Paul is an electrical engineer with experience on numerous industrial, commercial, and municipal projects, performing voltage drop calculations, lighting level calculations for indoor and outdoor lighting, and fault current studies. He also has experience with programmable logic controllers, radio telemetry, and emergency generators.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/26-Present	LA 324 over Bayou Teche, St. Mary Parish, Louisiana Senior electrical engineer lead designing electrical systems for movable bridges and operator houses for the replacement of the movable bridge over Bayou Teche. Responsible for the design and plan development of all electrical components of the bridge replacement, including but not limited to providing electrical power to all required moveable controls, providing electrical power to the operator’s house, providing navigational lighting, and all associated conduits and conductors. Responsible for ensuring the designs comply with all AASHTO and LADOTD lighting standards.			
02/26-05/26	Chippewa Street Pump Station, East Baton Rouge Parish, Louisiana Senior electrical engineer lead responsible for the placement of advanced warning signs and advanced vehicular warning gates for the underpass in hydraulic flood conditions. Responsible for the design and plan development of all electrical components for the advanced warning systems, including but not limited to providing electrical power to all required gate arms, providing electrical power to flood depth sensors, and all associated conduits and conductors. Responsible for the development of the project-specific technical specifications used to direct the construction contractor. Responsible for ensuring the designs comply with all AASHTO and LADOTD lighting standards			
06/17-Present	Ballard Bridge (Bridge 6.3), Seattle, Washington Lead electrical engineer and engineer of record, in responsible charge of the electrical design for this movable bridge project, including designing electrical systems for movable bridges and operator houses for this new double track span drive vertical lift over Salmon Bay. Also, he provided preliminary design of the electrical systems for a new double track single leaf rolling bascule.			
05/22-Present	95th Street Bascule Bridge, Chicago, Illinois Lead electrical engineer and engineer of record, in responsible charge of the electrical design for this movable bridge project, on the Phase I and II rehabilitation of the 95th Street Bascule Bridge over the Chicago River. This includes designing electrical systems for movable bridges and operator houses. The project includes removal of the outdated electrical control system and is being replaced by a more modern control system. The existing DC motors are being removed, rewound and reinstalled.			



16. Staff Experience:	
03/17-05/17	US 90 over Atchafalaya River Bridge Inspection, St. Mary Parish, Louisiana Performed site investigation to determine existing condition for the existing navigation lights on the bridge and determine how to add additional fixtures. He developed plans to add the additional navigation lights and rehabilitation plans for the existing navigation lights This project involved adding marine navigation lighting to an existing bridge.
08/17-09/17	LA 70 Pierre Part Bay Bridge Rehabilitation, Pierre Part Bay, Louisiana Inspector of the electrical systems of this hydraulic-operated swing span. He provided owner a report with a summary of findings, prioritized maintenance recommendations, and prepared repair cost estimates.
03/17-01/18	Danziger Lift Bridge, New Orleans, Louisiana Lead electrical engineer for the detailed inspection of the electrical systems for tower drive vertical lift over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.
08/18-10/18	Ted Hickey Bascule Bridge, New Orleans, Louisiana Lead electrical engineer for the detailed inspection of the electrical systems of this double leaf bascule bridge over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.
06/17-06/18	Judge Perez Lift Bridge, Belle Chase, Louisiana Lead electrical engineer for the detailed inspection of the electrical systems for this tower drive vertical lift span over the Gulf Intracoastal Waterway. He provided a written report with element ratings and maintenance recommendations.
02/18-12/24	Buck O'Neil Bridge, Kansas City, Missouri Engineer of record and provided quality review of the plans. The new bridge over the Missouri River caused the intersection at Broadway and 5th Avenue to be revised. The project also included the design of new traffic signals for the intersection.
10/14-06/17	Jefferson Avenue Bascule Bridge Rehabilitation, Detroit, Michigan Lead electrical engineer and engineer of record, in responsible charge of the electrical design for this movable bridge project, including designing electrical systems for movable bridges and operator houses and the electrical inspections for the rehabilitation of the historic Jefferson Avenue Bascule Bridge spanning the Rouge River that was damaged in a ship collision. HNTB's inspection and planning services included preparation of a Design Study Report to document the condition of the bridge and provide recommendations for rehabilitation/reconstruction. Paul prepared plans, specifications, a construction cost estimate, and documents so contractors could bid on the project in early 2015 and have the bridge operational by the end of that same year.
04/12-08/16	LPV 145 Swing Span Bridge at Bayou Bienvenue Floodgate, St. Bernard Parish, Louisiana Lead electrical engineer who designed electrical systems for the movable bridge and operator house, and performed an initial site survey to document existing conditions for this new single-lane bobtail swing span bridge. He was also involved with the preparation of the engineering plan for the bridge. The design included navigation lights, an existing generator, and the existing service for the sector gate. Control panels to operate the bridge were also provided on both sides of the channel. The project was built next to an existing sector gate dam.
10/16-12/17	Bridge Program, Chicago, Illinois Electrical engineer responsible for inspecting the electrical systems on 31 City of Chicago movable bridges. Services included completing electrical component inspection forms and preparing an electrical system inspection report for each bridge. He was responsible for the routine, fracture critical, underwater, element level and special feature inspections of 379 City of Chicago bridges. Services also included on-call engineering services, preparation of construction documents for emergency bridge repairs, load rating analysis for 30 bridges, value engineering studies, and the peer review of complex bridge designs. He also served as project manager/inspection team leader for a prior CDOT Bridge Program contract from 1999-2001. HNTB was the prime consultant and directed/coordinated the services of six sub-consultants and subcontractors.
11/13-03/16	LaSalle Bridge, Chicago, Illinois Lead electrical engineer responsible for inspecting the LaSalle Bascule Bridge. The electrical inspection was concurrent with a mechanical and structural inspection. The structural inspection was to determine major structural components that were to be repaired and replaced for rehabilitation. The electrical inspection determined the overall condition of the electrical system and identified electrical components that should be replaced for the bridge rehabilitation.

16. Staff Experience:

Firm employed by: Wiss, Janney, Elstner Associates, Inc.

Name	Gareth Rees, PE	Years of relevant experience with this employer	7
Title	Principal	Years of relevant experience with other employer(s)	52
Degree(s) / Years / Specialization	BS / 1968 / Electrical Engineering		
Active registration number / state / expiration date	PE: #40754 / LA / 09-30-2026		
Year registered	LA 2016	Discipline	Electrical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/19-03/24	Danziger Lift Bridge, New Orleans, Louisiana Lead electrical engineer for the inspection of relevant portions of the main 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 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 transverse skew elimination clutches with the span drive differentials, and provided recommendations for rehabilitation of the bridge including development of a cost estimate.		
03/20-present	Skew Detection System Study for Vertical Lift Bridges, Louisiana Principal investigator to review alternatives for skew control, monitoring, and indication for tower drive vertical lift bridges based on effective management of skew using conventional relay logic and minimizing the use of advanced electronic equipment. The study included a literature review, interviews with current owners and maintainers of vertical lift bridges, and interviews with industry control specialists experienced in skew control systems. As a result of the study, a preferred system of skew control that combines direct skew measurement with an inclinometer and lasers for skew monitoring and trip indication, with indirect measurement of skew using encoders for controlling skew during operation was recommended. To minimize maintenance, mean-time-to-repair, and to limit dependency on PLC systems, it was recommended that control integration be achieved using SMART relays (that contain self-diagnostics) and that may easily be replaced in the event of an issue. In a subsequent phase of the project, WJE was later tasked to design and manage the implementation of the new skew control technology and deployed it at one of LADOTD bridges as a pilot project for evaluation prior to acceptance and deployment statewide.		
04/19-12/25	Independence and Liberty Bascule Bridges, Bay City, Michigan Electrical engineer of record for the design and construction services for the rehabilitation and upgrades to these two double leaf bascule bridges as part of a P3 project and their conversion for toll operation.		
03/18-02/20	Charles Berry (Erie Ave) - Lorain 6 Bascule Bridge Rehabilitation, Lorain, Ohio Movable bridge project coordinator for the rehabilitation of the operating and support systems for this historic double leaf deck truss bascule bridge including complete replacement of the drive machinery and electrical power and controls control systems for both the bridge and the operator house. Services included review, coordination and integration of the mechanical, electrical, and structural systems, review of all shop drawings for fit-up and constructability; shop inspection of critical components; field oversight during construction for critical assemblies; 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.		



16. Staff Experience:	
04/13-10/19	BNSF Fort Madison Toll Bridge, Fort Madison, Iowa Engineer of record and project manager for the rehabilitation of this double decker railroad and highway swing span bridge. The rehabilitation design and implementation were performed in phases to satisfy marine, railroad, and highway traffic operations as well as Coast Guard and emergency services with respect to bridge operating outages. The first phase was the design of a new aerial and submarine electric service installation, the new installation to be configured as redundant power sources. The design of the submarine cable installation included surveying of the existing submarine cable, routing, and designing and specifying the cable. The work also included excavation requirements and developing an approved trenching system under the Mississippi. The second phase of the project involved the design and installation of replacement span drives, motors and brakes and extensive modifications to the bridge control system. This second phase was necessary to provide bridge operating flexibility and enhance reliability. Construction services were also performed.
03/12-11/16	Sir Ambrose Shea Lift Bridge, Placentia, Newfoundland and Labrador, 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 house is located at roadway level and remote from the bridge, and Gareth designed the electrical systems for both the movable bridge and the operator house, including CCTV surveillance and fiber optic communications to the towers. The PLC-based control system was designed with Hot standby redundant PLC's, a human machine interface, and control console and a redundant fiber optic communications transmission backbone. The electric services for the bridge are distributed via state-of-the-art intelligent MCC's in each of the bridge towers with internal communications capabilities that interface directly with the bridge control system PLC for bridge operation, drive monitoring, and data acquisition.
06/14-06/19	East Roundbunch Road over Cow Bayou, Orange County, Texas Lead electrical engineer responsible for designing new drives, controls, and field devices for the bridge span drive machinery and the end wedge machinery as part of a rehabilitation of 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 a variable frequency drive and inverter rated squirrel cage motors. The Design included integration of bridge highway and marine new traffic control, bridge and maintenance lighting, and a CCTV system.
12/14-01/17	Burlington Canal Lift Bridge, Burlington, Ontario, Canada Lead electrical engineer providing construction support services to the contractor for the replacement of all power systems control systems and an aerial cable replacement for this critical vertical lift bridge. Work included review of all shop drawings, coordination and resolution of design issues, and start up and commissioning of the bridge.
06/18-06/120	BNSF Slough River Bridge 8.8, Portland, Oregon Electrical engineer of record in responsible charge for electrical engineering for design, construction and commissioning of the electrical operating systems and integration of the new design into the existing railroad operating network. Work consisted of replacement and upgrade of aging electrical systems to provide reliable electrical operating systems. Design additions to the electric service include construction of a new electric service compound containing a standby generator and automatic transfer switch, a new submarine cable installation and a new power slip ring arrangement at the center bearing to transition power between the pivot pier and the moving structure. The project included replacement of the bridge drive and control system, which included the replacement of the existing main drive motors and addition of variable frequency drives. The replaced system now enables the bridge to be operated at variable speeds with torque control and dynamic braking. The existing relay logic and operator's control console replacements consisted of a modern programmable logic controller with built-in SCADA and diagnostic functionality, and a streamlined operator's control station with an HMI providing status, alarm, and control functionality. The installation work involved staged construction and relocation of the bridge railroad interlocking signal and dispatcher control board to maintain railroad operation throughout the replacement work.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Jesse Miguel, AIA, RA, NCARB, ENV SP		Years of relevant experience with this employer	40
Title	Senior Bridge Architect		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		M. Arch / 1986 / Architecture; BA / 1982 / Architecture		
Active registration number / state / expiration date		RA: #8222 / LA / 12-31-2026; #7896 / MA / 08-31-2027; #007650 / MO / 12-31-2026; #12160 / WA / 02-19-2027; #31556 / TX / 02-28-2027; #ARC40000526 / DC / 04-30-2028; #0401020180 / VA / 05-31-2027		
Year registered	LA 2015, MA 1989, MO 1996, WA 2017, DC 2023, VA 2023, TX 2024	Discipline	Architecture	
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Bridge Architecture and Aesthetics)		
Jesse brings professional design experience on transportation projects, including bridges, highways, transit, as well as architectural, planning and federal projects. He serves as senior bridge architect in HNTB's Kansas City office and is HNTB's national bridge practice leader on Bridge Architecture. Previously, he was the visualization team leader for HNTB's technology office, and the project designer and architectural CADD coordinator for HNTB's Boston office.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/24-Present	Long Bridge North Project, Washington, D.C. Bridge architect of record, task lead for structures aesthetics; part of the progressive design build team of Skanska/Flatiron Joint Venture including JMT and HNTB for the north section, including expansion of the CSX rail line from Virginia to Washington, DC to four tracks as part of the \$2.3 billion Long Bridge Project for the Virginia Passenger Rail Authority. Responsible for the overall structure aesthetics of the north project including bridges and retaining walls and presenting concepts for stakeholder and signatories' review.			
09/19-10/19	I-10 and I-12 College Drive Flyover Ramps, Baton Rouge, Louisiana Created 3D visualizations of the for the LADOTD, illustrating two alignments with views from I-12, from adjacent significant residential developments, and an overall aerial plan view to see impacts of the flyover options designed with a visual screening wall. The renderings were presented at a public hearing to see the impacts of the flyover bridges to their neighborhood and concerns of the proximity and height of the flyovers with their visual screening wall.			
08/18-08/18	Metarie Pedestrian Bridge, New Orleans, Louisiana Designed concepts for a proposed pedestrian over I-10 in Jefferson Parish section of New Orleans, selected to develop feasibility studies for this new pedestrian bridge.			
10/08-07/09	Huey P. Long Bridge Widening, New Orleans, Louisiana Directed and created the 3D modeling and animation for the estimated \$982 million Huey P. Long Bridge in New Orleans, illustrating the animation sequence of a bridge widening and deck replacement, illustrating the lifting of the truss spans from the barges, stick built sequences, and the crane movement for installing secondary members.			
09/14-Present	Norwalk River Bridge Replacement, Norwalk, Connecticut Bridge architect of record for the replacement of an existing 100-year old four-track swing span bridge (part of the New Haven commuter line), to a new movable bridge. Currently under design selection of a preferred movable alternative. He is responsible for bridge aesthetics, visualization including programming, and design of the operator control house.			
01/06-04/06	Fort Polk Combined Arms Collective Training Facility, Fort Polk, Louisiana Architect who directed and created a 3D visualization model of a proposed military training facility that will be used for simulated combat warfare exercises. The final deliverable will be a real-time computer simulation of the proposed facility design.			



16. Staff Experience:			
Firm employed by: HNTB Corporation			
Name	Travis Konda, PhD, PE, SE, CCM	Years of relevant experience with this employer	20
Title	Principal Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		PhD / Civil Engineering / 2004; MS / Civil Engineering / 2001; BS / Civil Engineering / 1998	
Active registration number / state / expiration date		PE: #48851 / MN / 06-30-2026; #2009001100 / MO / 12-31-2027; #E15260 / NE / 12-31-2027; #0061502 / CO / 10-31-2027; #0402064414 / VA / 11-30-2027 SE: #081007914 / IL / 11-30-2026	
Year registered	PE: IA 2016, MN 2011, MO 2009, NE 2014, CO 2022, VA 2021 SE: IL 2016, NE 2014	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Accelerated Bridge Construction)	
Travis is a practice consultant specializing in a unique combination of bridge -, design, construction and project delivery experience. Drawing upon his extensive background in structural engineering, Travis provides technical expertise – and solutions that save time and money – when reviewing complex construction plans, including shop drawings, falsework and erection plans. He takes a proactive, hands-on role in the field to represent the interests of the owner when coordinating with contractors. Applying his 10 plus years of direct bridge construction experience, he has led the HNTB ABC committee. He has also served as a design engineer on a wide range of challenging projects, including design of five arch bridges, two cable-stay bridges, multiple concrete girder structures, including post-tensioned box girders, prestress girders and complex curved and skewed steel plate girders. Travis currently serves as the chair of the Transportation Research Board Committee AFH40 – Construction of Bridges and Structures, where he leads a group of 26 volunteer members experienced in bridge design, fabrication and construction to identify research needs and attempt to secure support to investigate such items. Travis also serves as the ABC committee chairperson for HNTB's national bridge practice.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/20-11/21	Route 120 Bridge over Pimmit Run ABC Implementation, Arlington County, Virginia Structural engineer who performed a constructability review for the superstructure replacement of a three-span steel beam bridge using ABC techniques. As part of the review, Travis looked at the planned sequence, conflicts and revised several details to reduce the overall construction effort.		
11/12-03/17	Franklin Avenue Bridge Rehabilitation, Minneapolis, Minnesota HNTB's project construction engineer who served as an extension of Hennepin County oversight staff for the major rehabilitation of this historic concrete deck arch bridge originally constructed in 1923. Travis collaborated with the owner and contractor to develop the erection and falsework plans and the ABC schedule. He worked with fabricators to resolve geometric discrepancies in the shop drawings. During the 116-day ABC period, Travis inspected the ongoing work, including deck removal and replacement operations and solved unforeseen design conflicts. He proactively addressed and solved field-related discrepancies to keep the project on schedule and minimize delays and change orders. The Franklin Avenue Bridge rehabilitation was named 2016 Project of the Year by the American Public Works Association - Minnesota Section.		
03/23-Present	Route 681 (Walker Road) over Piney Run, Fairfax, Virginia HNTB provided Virginia Department of Transportation with an ABC design solution to replace an existing single lane rural bridge in a two week closure. The design consists prefabricated bridge elements for both the substructure and the super structure. Travis provided a senior technical review drawing upon his construction and past ABC project experience considering the planned sequence, task durations, element details and erection limitations. He worked closely with the designers to resolve identified challenges to minimize complexity in the field to maximize speed and quality construction.		



16. Staff Experience:			
Firm employed by: HNTB Corporation			
Name	Patrick Roth, PE	Years of relevant experience with this employer	14
Title	Project Manager	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization		BS / 2008 / Civil Engineering	
Active registration number / state / expiration date		PE: #41553 / LA / 09-30-2027; #28132 / MS / 12-31-2026 FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges ATSSA Traffic Control Supervisor Refresher - LA State Specific SPRAT Rope Access Technician Level 1	
Year registered	LA 2017, MS 2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)	
Patrick is project manager and National Highway Institute/FHWA certified team leader in HNTB's bridge group. He brings 17 years of structural and bridge engineering experience including the inspection, analysis, rehabilitation of existing structures and design of new bridges. Patrick is also experienced in construction management and has provided on-site services for bridge construction projects. As project manager/lead inspection team leader, he is responsible for planning, scheduling all personnel and equipment, coordinating with multiple agencies and managing teams in the field to ensure completion of the project with high quality, on time, on budget and to the client's satisfaction.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/16-Present	2016, 2019, 2021 and 2024 Retainer Contracts for NBIS Inspection of Complex Bridges, Statewide, Louisiana Project manager and team leader for the NBIS in-depth inspections of US 190 Baton Rouge Mississippi River Bridge, I-310 Luling Mississippi River Bridge, LA 10 John James Audubon Mississippi River Bridge, US 90 Greater New Orleans (GNO) Cantilever Truss Bridges, LA 23 Judge Perez Bridge, LA 1 Lockport Bridge, US 90 Atchafalaya Mississippi River Bridge, I-10 Calcasieu River Bridge, I-10 Baton Rouge Mississippi River Bridge, US 90 Danziger Bridge, Senator Ted Hickey Bridge and Claiborne Avenue Bridge. Bridge types inspected include cable-stayed, cantilever truss, movable, PPC girders, deck truss and steel trestle bents. Performed inspections of the cables, trusses and other bridge members high above the water have been performed using rope access inspectors, snooper trucks, aerial lifts and under-bridge movable platforms. Upon completion of the inspections, HNTB prepared inspection reports in accordance with LADOTD and FHWA requirements, as well as developed recommendations for maintenance and rehabilitation.		
05/21-Present	Hernando de Soto Bridge (I-40) over the Mississippi River, West Memphis, Arkansas to Memphis, Tennessee Team leader for the emergency inspections of the back-to-back, 900-foot tied trussed arch bridge. These inspections resulted from the identification of a significant fracture in a section of the fracture critical tie girder, requiring immediate closure of the span to traffic and the Mississippi River to navigation traffic. HNTB assisted ArDOT with the review of repairs designed by the TDOT consultant. HNTB developed a structural model which demonstrated there was no viable alternative load path and that the bridge should remain closed until repairs could be safely implemented.		
03/17-05/17	US 90 over Atchafalaya River Bridge Inspection, St. Mary Parish, Louisiana Certified team leader and on-site project engineer performing CE&I services for the bridge rehabilitation, as well as certified team leader for the NBIS in-depth inspection of the bridge to assist in the development of the rehabilitation plans. Duties included answering RFI, reviewing shop drawings and all contractor submittals, inspection of all structural construction activities, final acceptance inspection and QA, and assisting the LADOTD with closeout documentation.		



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Lars Jensen, PE	Years of relevant experience with this employer	5
Title	Engineer II	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2021 / Civil Engineering		
Active registration number / state / expiration date	PE: #50445 / LA / 03-31-2028 SPRAT Rope Access Technician Level 1 FHWA-NHI-130055 Safety Inspection of In-Service Bridges for PEs FHWA-NHI-130078 Bridge Inspection Techniques for NSTM		
Year registered	LA 2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)		
Lars serves as an engineer in HNTB's Baton Rouge office. He has four years of experience in in-depth bridge inspections as an IRATA-certified tope technician and inspection report writing. He also has experience in bridge superstructure load ratings.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/21-Present	Hernando de Soto Bridge (I-40) over the Mississippi River, West Memphis, Arkansas to Memphis, Tennessee Inspector and rope access technician for the in-depth, fracture critical emergency inspection of a tied arch bridge. Project included several types of NDT, paint removal, and rope access.		
09/21-11/21	LA 1 Over Louisiana Delta, Leeville, Louisiana Inspector for the post-hurricane trust indenture inspection of an elevated slab span, prestressed girder, and steel girder bridge. The inspection included walking over 8 miles of bridge deck and boat access to complete.		
12/21-Present	I-10 Over Lake Charles, Lake Charles, Louisiana Inspector and rope access technician for the in-depth inspection of a steel high truss (cantilevered through truss) bridge. Also provided special inspections on the substructure and superstructure rated as "Poor" to further look at areas of concern and provide repair recommendations		
08/22-Present	US 90 Over Mississippi River, New Orleans, Louisiana Inspector and rope access technician for the in-depth inspection of a steel high truss (cantilevered through truss) bridge. Also provided special inspections on the superstructure rated as "Poor" to further look at areas of concern and provide repair recommendations.		
03/23-Present	US 190 Over Mississippi River, Baton Rouge, Louisiana Inspector and rope access technician for the in-depth inspection of a steel truss railroad bridge. Utilized rope access techniques and railroad safety measures to complete inspection.		
11/21-01/22	I-10 Calcasieu Bridge Over Lake Charles, Lake Charles, Louisiana Inspector and rope access technician for the in-depth inspection of a steel high truss (cantilevered through truss) bridge. He utilized safe climbing and rope access to complete inspection.		
10/21-12/21	US 84 Over Mississippi River, Natchez, Mississippi Inspector for the in-depth, fracture critical inspection of a five-span cantilever truss bridge. His tasks included training and operation of the manlift and snooper.		



16. Staff Experience:

Firm employed by: Moffatt & Nichol Inc.

Name	Chace Hulon, PE, ADCI	Years of relevant experience with this employer	12
Title	Program Manager	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	BS / 2005 / Civil Engineering		
Active registration number / state / expiration date	PE: #39701 / LA / 09-30-2027 FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130091 Underwater Bridge Inspection SPRAT Rope Access Technician Level 2		
Year registered	LA 2015	Discipline	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater Bridge Inspection)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/14-Present	LADOTD Underwater Bridge Inspections, Statewide, Louisiana Project Manager, Dive Supervisor, and National Bridge Inspection Standards (NBIS) Team Leader for the fourth consecutive retainer contract. Contracted in total to perform 2,712 underwater bridge inspections throughout Louisiana and in the most challenging environments, including dive operations in the Lower Mississippi River under the USCG Waterways Management Division. Level I, II, and III inspections of submerged elements were performed in accordance with the FHWA, Bridge Inspector's Reference Manual (BIRM), AASHTO Manual for Bridge Evaluation (MBE), current NBIS requirements, LADOTD Engineering and Maintenance Directives, and the LADOTD Bridge Inspection Manual (BIM). Bridge types included movable swing span bridges with pivot piers, bascule bridges large chamber piers, long-span cantilever through truss bridges with caisson piers, timber trestle bridges with timber piles, cable-stayed bridges with drilled shafts, and multi-span bridges with drilled shafts up to 8 miles in length, and ferry terminals. Managed the QA/QC plan and performed QC reviews as the confirming engineer on NBIS inspection reports. The underwater bridge inspections in large waterways were conducted with commercial divers and augmented with multibeam high-resolution acoustic imaging technology to consistently monitor streambed changes and structural deficiencies over subsequent inspection cycles. Acoustic hydrographic surveying methods were performed using the HydroLite-TM, Kongsberg Mesotech MS 1000, R2Sonic, and the Norbit Winghead i77 and X units deployed from a vessel. QINSy, Qimera, Applanix POSPac, MMS systems, and MatLab were used for accurate and repeatable post-processing efforts. Scour evaluations are integrated into every underwater bridge inspection, however focused scour evaluations for the purpose of performing a scour analysis were performed that included a macroscopic view of the surrounding site conditions. Performed emergency underwater damage assessments while augmenting sonar technology and advising on corrective actions and repair alternatives. Performed more than 20 emergency response damage assessments, including the recent allision of the Grosse Tete Bridge (LA 77) over the Port Allen Lock canal.		



16. Staff Experience:

09/24-03/25	ARDOT A6476 Bridge Investigation, Siloam Springs, Arkansas Project Manager, Dive Supervisor, and Team Leader for the investigation of Bent 3A Pier. This reinforced concrete hammerhead pier shaft has a spread footing keyed into shale and is experience severe cracking in the shaft and the footing. Chace led the investigation team along with an HNTB representative to safely perform diving and rigging operations in a river with challenging access. Maintenance of traffic (MOT) devices were utilized for shoulder closures in accordance with Manual on Uniform Traffic Control Devices (MUTCD) and American Traffic Safety Services Association (ATSSA) safety standards. Rigging operations were performed in accordance with Society of Professional Rope Access Technicians (SPRAT) safety standards for heavy equipment. Diving operations were performed in accordance with Association of Diving Contractors International (ADCI) safety standards. Material sampling was required to thoroughly assess the chemical composition of the concrete matrix. Chace supervised and performed the concrete core extraction operations above- and below-water with a hydraulic unit with core sizes of 4-in diameter by 36-in long. Concrete coring was performed to investigate the chemical composition of the concrete matrix and to explore the limits of cracking in the footing. Testing included compressive tests and petrographic analyses. Tests concluded that excessive amounts of secondary ettringite (DEF) are present along with minor traces of alkali-silica reaction (ASR). Repairs consisted of crack injections and a monitoring plan to assess the stage of chemical reaction and the rate of deterioration as the reaction may be near completion.
03/20-Present	LADOTD IDIQ for Complex Bridge Inspection, Statewide, Louisiana Project Manager and Chief Editor for major revisions of the 2020 bridge maintenance policies and procedures (BIM) to incorporate the 2022 NBIS Final Rule. The new policies and procedures included LADOTD On-System BIM, LADOTD Off-System BIM, and LADOTD Coding & Field Guide. While the above documents have been completed, the LADOTD Bridge Load Rating Manual development is currently in progress. M&N collaborated with the LADOTD staff throughout the development to meet expectations and maintain their direction. In-person progress meetings occurred monthly, including facilitating various District Bridge Engineers throughout the state. The BIM policies and procedures were completed and published in December of 2024 to fully implement in January 2025 and be fully compliant for the FHWA audit in 2028. Compliance with the National Bridge Inspection Program (NBIP) and the associated Specifications for the National Bridge Inventory (SNBI) data tape is in alignment with the anticipated timeline published by FHWA. The tables of contents of the Off-System and On-System manuals were purposefully ordered primarily for the bridge inspector. The vital forms and checklists for the Bridge Inspection Program were narrowed down to eight and stored in the appendix section. The Coding and Field Guide is uniquely designed for a seamless user experience allowing efficient navigation through significant amounts of technical data. Performed in-depth bridge inspections on complex movable and long-span bridges. Performed structural, mechanical, and electrical inspections of six movable bridges utilizing detailed, nondestructive, and laboratory testing methods with hand sketches. Installed a wireless SHM (system health monitoring) system on the Greater New Orleans bridge to monitor significant deficiencies in Nonredundant Steel Tension Members (NSTM) members due to poor design details and advised of repair alternatives. Utilized nondestructive examination (NDE) methods (laser and acoustic) to analyze the rotational movement of an unstable pivot pier. Performed the inspections of two cable-stayed bridges with rope access techniques to inspect 208 cables between the two bridges, their Gensui Dampers, and anchorage systems. Performed two inspections of the I-10 Horace Wilkinson Bridge and two inspections of the Greater New Orleans Bridges, which are cantilever truss bridges utilizing rope access techniques and rolling lane closures to minimize traffic impacts. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New Orleans, utilizing rope access and Unmanned Aircraft Systems (UAS) access techniques. Performed the inspection of the I-10 Bridge over the Calcasieu River in Lake Charles utilizing rope access on NSTM and UAS access techniques on columns. The Skydio X10 drone with DroneDeploy and 3D Scan was used to capture an orthomosaic projection of the structure for digital twin models. Hands-on management and implementation of the QC review plan are vital to the continued success of this project.
08/22-03/23	USACE Bridge and Waterfront Facility Inspection Services at US Army Garrison (USAG) Fort Polk, Leesville, Louisiana Project Manager, Dive Supervisor, and Quality Assurance Field Engineer Lead for inspection of 156 FHWA reportable highway bridges and FRA reportable railroad bridges in the Fort Polk inventory.

16. Staff Experience:

Firm employed by: Moffatt & Nichol Inc.

Name	Bryan Tyson, PE, ADCI	Years of relevant experience with this employer	6
Title	Structural Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	MS / 2010 / Civil Engineering ; BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	PE: #43425 / LA / 03-31-2027 FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130091 Underwater Bridge Inspection SPRAT Rope Access Technician Level 1 Association of Diving Contractors International Entry Level Tender/Diver ATSSA Louisiana Traffic Control Supervisor - LA State Specific		
Year registered	LA 2019	Discipline	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater Bridge Inspection)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/23-11/24	SNBI Program Development and Manual Publications, Statewide, Louisiana Structural Engineer and Lead Technical Editor for revising the 2020 bridge maintenance policies and procedures (BIM) to incorporate the 2022 NBIS Final Rule for LADOTD. The revised BIM was a major revision from the previous manual which included adding the 2022 NBIS Final Rules to 23 CFR Part 650 along with the SNBI, and the Metrics for the Oversight of the National Bridge Program. Primary contributor to the On-System and Off-System BIMs. Secondary contributor to the development of the Coding & Field Guide, which is an intuitive and interactive PDF allowing inspection personnel to quickly reference the relevant SNBI codes, state specific standard element numbers, rating definitions, and examples of proper documentation while in the field. Responsible for incorporating updates to the LADOTD bridge inspection policies and procedures along with more than 30 reference documents from FHWA, LADOTD, and AASHTO. Early in the project, the M&N team worked closely with the LADOTD to review the BIMs of other states and compared the pros and cons of the manuals to determine the best outline to fit LADOTD's needs. Led weekly progress meetings with LADOTD throughout the entire project to discuss updated policies and review the living action item list. Maintained quality through the quality control plan, and each chapter was reviewed by a dedicated team of subject matter experts to ensure overall quality and adherence to the new inspection policies, procedures, standards, and guidelines that were being established.		
07/23-Present	Underwater Bridge Inspection, Statewide, Louisiana Structural engineer and team leader for the current 5-year retainer contract to perform underwater bridge inspections throughout Louisiana for the LADOTD, including 100 percent visual inspections of submerged elements in accordance with NB requirements. Served as inspector for the underwater inspection of concrete, steel, and timber bridges.		
09/15-01/18	Underwater Bridge Inspections, Statewide, Louisiana Structural engineer and dive team member for two out of ten tasks completed for this LADOTD five-year-long retainer contract to perform underwater bridge inspections. Provided Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE, current NBIS requirements, and LADOTD Engineering and Maintenance Directives. Bridge types included movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, single and multi-span bridges up to 8 miles in length. Assisted with the preparation of NBIS inspection reports. During the two tasks, provided inspection of more than 45 concrete, steel, and/or timber bridges. Included emergency evaluations utilizing underwater acoustic imaging. The second task involved bridges over large waterways with high-risk environmental conditions. Also, provided NBIS inspection reports.		



16. Staff Experience:	
06/17-11/18	Underwater Bridge Inspection of Large River Crossings, Statewide, Louisiana Structural engineer and diver for two tasks under a five-year, open-ended retainer contract to perform underwater bridge inspections throughout Louisiana. Served as inspector and team leader. Provided Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE, current NBIS requirements, and LADOTD Engineering and Maintenance Directives. Bridge types included movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, single and multi-span bridges up to 8 miles in length. Assisted with the preparation of NBIS inspection reports. During the two tasks, provided inspection of 41 major bridges over large waterways with deep foundation and dynamic channel conditions.
03/24-Present	Underwater Bridge Inspection, Statewide, Mississippi Project manager and team leader for a one year retainer contract to perform underwater inspections throughout Mississippi for the MDOT, including 100 percent visual inspections of submerged elements in accordance with NBIS requirements. Served as inspector for the underwater inspection of concrete, steel, and timber bridges.
09/24-03/25	ARDOT, A6476 Bridge Investigation, Siloam Springs, Arkansas Team Member, Engineer-Diver, Rigger, and Drone Pilot for the investigation of Bent 3A Pier. This reinforced concrete hammerhead pier shaft has a spread footing keyed into shale and is experience severe cracking in the shaft and the footing. MOT devices were utilized for shoulder closures in accordance with MUTCD and ATSSA safety standards. Rigging operations were performed in accordance with SPRAT safety standards for heavy equipment. Diving operations were performed in accordance with ADCI safety standards. Drone operations were performed in accordance with Federal Aviation Administration safety standards. Performed the 3D reconstruction of Pier 3A to provide a visual model of all crack locations accurately referenced, quantified, and rated. Material sampling was required to thoroughly assess the chemical composition of the concrete matrix. Bryan supported the concrete core extraction operations above- and below-water with a hydraulic unit with core sizes of 4-in diameter by 36-in long. Concrete coring was performed to investigate the chemical composition of the concrete matrix and to explore the limits of cracking in the footing. Testing included compressive tests and petrographic analyses. Tests concluded that excessive amounts of secondary ettringite (DEF) is present along with minor traces of ASR. Repairs consisted of crack injections and a monitoring plan to assess the stage of chemical reaction and the rate of deterioration as the reaction may be near completion.
09/16-10/16	EBDG Galveston Bolivar Ferry Landing Repairs, Bolivar Peninsula, Texas Engineer diver on an above-water and below-water inspection of the marine facilities. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.
05/16-07/16	Port Freeport Underwater Inspection of Berths 1, 2, 3, 5 & 7, Freeport, Texas Team lead and structural engineer for the underwater inspection of approximately 3100 linear feet of steel bulkhead. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.
10/23-12/23	Hollingshead Dock Inspection, Panama City, Florida Team Leader and Engineer-Diver for the underwater inspection of a steel bulkhead relieving platform built in the 1920s. Performed Level I, II, and III inspections of submerged elements in accordance with the American Society of Civil Engineers (ASCE) Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment. QC review of the dock load, the existing structural configuration, and the inspection memo.
08/22-08/22	Bulkhead and Dock Assessment, Key West, Florida Structural engineer and team lead for the above- and underwater inspection of a timber dock and steel bulkhead in Key West, Florida. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.

16. Staff Experience:

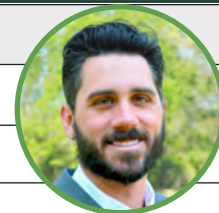
Firm employed by: Moffatt & Nichol Inc.



Name	Jeffrey Gazarek, ADCI	Years of relevant experience with this employer	11
Title	Dive Safety Officer/Compliance Manager	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	FHWA-NHI-130053 Bridge Inspection Refresher Training Association of Diving Contractors International Mixed Gas Diving Supervisor Certificate for Occupational Safety Managers		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater Bridge Inspection)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/21-8/25	Underwater Bridge Inspections, Statewide, Louisiana Safety Manager, Engineering Technician Diver, and Team Leader for the current five-year retainer contract 2020-2025 to perform underwater bridge inspections throughout Louisiana. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LADOTD requirements.		
06/17-12/20	Underwater Bridge Inspections and Underwater Acoustic Imaging, Statewide, Louisiana Safety manager, engineering technician diver, and dive supervisor for the five-year retainer contract 2017-2021 to perform underwater bridge inspections throughout Louisiana. Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LADOTD requirements. Acoustic imaging techniques were used to identify structural deficiencies and determine the limits of scour, to perform emergency underwater investigations, and to inspect bridges over high-risk waterways.		
11/15-03/17	Underwater Bridge Inspections, Statewide, Louisiana Site safety specialist, engineering technician diver, and team leader for the five-year retainer contract 2012-2017 to perform underwater bridge inspections throughout Louisiana. Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LADOTD requirements.		
4/19-4/24	In-Depth Bridge Inspections, Statewide, Louisiana Engineering Technician Diver, Sonar Specialist, Site Safety Specialist, and Senior Dive Supervisor for the five-year retainer contract to perform in-depth bridge inspections on complex and movable bridges throughout Louisiana. As the primary sub-consultant to HNTB, M&N is performing complete in-depth inspections (fulfilling both routine and fracture critical inspection types) as a quality assurance measure for the district personnel for the Headquarters Bridge Inspection Office. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE and Manual for Bridge Element Inspection, current NBIS requirements, and the LADOTD BIM will be required as needed. Bridge types include cantilever trusses, segmental concrete box girders, movable swing span bridges, bascule bridges, cable-stayed bridges, and bridges of various configurations with timber elements.		
03/24-Present	2023 IDIQ Underwater Bridge Inspection, Jackson, Louisiana Safety manager responsible for the review and approval of dive and field safety plans for specialty access projects, both above and below-water. This includes oversight of diving operations, rope access, fall protection, mobile elevated work platforms, and confined space safety.		

16. Staff Experience:	
10/22-10/22	USACE Bridge Inspection Services at USAG Fort Polk, Leesville, Louisiana Project safety manager and inspection team member responsible for field inspections and safety oversight. This task order covered the inspection of 63 bridges and the preparation of reports per NBIS and USACE procedures. Field inspections required extensive coordination with the Directorate of Public Works (DPW) and range control to avoid affecting base operations. Four bridges required an underwater inspection. Duties included pre-site visit, dive plan and safety plan review, and on-site bridge inspection.
04/20-04/25	LADOTD Inventory and Inspection of Sign Trusses, Statewide, Louisiana Site Safety Specialist who supported the overall project safety, logistics, and compliance. He led meetings to present findings related to sign inventory issues and reviewed guidance documents and logistical considerations across project teams. He addressed bucket truck safety concerns, maintenance planning, and contract modifications, including transitioning from a standard lease to a custom agreement. He reviewed and discussed hazard analyses, including electrical hazards and rope access safety. He evaluated and updated the Access Work Plan, project wide Activity Hazard Analysis (AHA), and Rope Access AHA. He oversaw incident reporting processes and facilitated safety meetings covering flaggers, traffic control technician, and traffic control supervisor training. He coordinated with the sub-consultant's regional manager to ensure safety documentation compliance with M&N standards and contract requirements and actively supported field team safety through regular reviews of the Field Safety Plan and by promoting clear communication and procedural adherence.
10/22-12/24	MDOT Bridge Load Rating Inspection, Statewide, Mississippi Team Leader and Technician who performed in-depth inspection for load rating of four bridges. The team identified and verified bridge defects from previous inspection reports, and cross-referenced on-site measurements with the original build drawings, which helped the team develop a load rating report and gave bridge posting recommendations.
07/15-12/19	LADOTD Truss Sign Inspection, Statewide, Louisiana Team Leader and Site Safety Specialist to perform ancillary structure inspections throughout Louisiana. Inspections include steel and aluminum welds, critical moment connections, fatigue prone details, safety features and general maintenance items to increase service life in accordance with FHWA guidelines.

16. Staff Experience:			
Firm employed by: Moffatt & Nichol Inc.			
Name	Christopher Eschenbach, ADCI	Years of relevant experience with this employer	8
Title	Engineering Technician Diver	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		Associate of Science / 2015 / Welding Technology	
Active registration number / state / expiration date		FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130091 Underwater Bridge Inspection Association of Diving Contractors International Entry Surface-Supplied Air Diving Supervisor SPRAT Rope Access Technician Level 1 American Welding Society Welding Inspector Certification	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Bridge Engineering Services (Underwater Bridge Inspection)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/21-Present	Underwater Bridge Inspections, Statewide, Louisiana Engineering technician diver responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, providing field notes and observations, and writing reports. Provides routine maintenance of the inspection equipment and proper record keeping, uses the manufacturer's recommendations to maintain high standards for our inspections, and ensures that the industry standards are met before anything is used. Identifies the inspection locations for planning and preparation, reviews previous inspection data, identifies the proper lodging and safety accommodations, confirms tools are available for use, and confirms that safety concerns are addressed. Provides field notes and observations of the field data collection process, using a diver or non-diving inspector, and taking photos, video, or using acoustic imaging to collect data. Assists in the report development process and the rounds of QA/QC.		
09/19-03/20	2017 NBIS Underwater Bridge Inspection Retainer Contract, Statewide, Louisiana 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 fieldwork, inspection reports, and quality control reviews. Underwater acoustic imaging techniques were used to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.		
10/20-12/23	LADOTD IDIQ Contract for In-Depth Bridge Inspections, Statewide, Louisiana NBIS Inspector for routine bridge inspections throughout Louisiana, including 100% visual inspections in accordance with NBIS requirements. Performed a routine bridge inspection of the cable-stayed Audubon Bridge above the deck utilizing rope access techniques in St. Francisville. Responsibilities included preparing SPRAT and climbing gear for inspection, coordinating with the other climbing teams, performing inspection on each cable for cable-stay bridge using rope access and performing inspection on the cable-stay towers, relaying defects and photographing defects found.		
04/24-Present	2023 IDIQ Underwater Bridge Inspections, Statewide, Mississippi Engineering technician diver responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, and providing field notes and observations. Maintaining the inspection equipment entails routine maintenance, proper record keeping, using the manufacturer's recommendations to maintain high standards for our inspections, and ensuring that the industry standards are met before anything is used. Planning and preparation have included the tools that are available for use and that all safety concerns are addressed. Providing field notes and observations using a diver or a non-diving inspection and taking photos or video.		



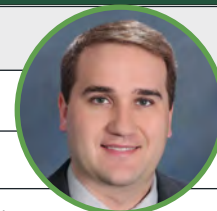
16. Staff Experience:			
Firm employed by: Wiss, Janney, Elstner Associates, Inc.			
Name	Jonathan McGormley, PE	Years of relevant experience with this employer	32
Title	Principal	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 1994 / Civil Engineering, ; BS / 1992 / Civil Engineering	
Active registration number / state / expiration date		PE: #43912 / LA / 03-31-2028 FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges	
Year registered	LA 2019	Discipline	Civil
Contract role(s) / brief description of responsibilities		Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive Testing)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
11/24-Present	UT of Bridge Pins and Hangers, Nine Structures, Louisiana Project manager for visual and ultrasonic inspection of bridge pins and hangers, characterizing and documenting conditions of section loss, cracking, or other forms of distress.		
12/22-08/25	T-1 Steel Weld Assessment, Louisiana Project manager for the inspection and assessment of T-1 steel butt welds. Work included identifying inspection locations, developing access plans for each structure, and preparing a work plan. Subsequent tasks involved coating removal; UT inspections of welds; QC/QA by a qualified ASNT Level III or Level II inspector; and removal of rejectable indications by grinding or coring. Structures included LA 47, IWGO (New Orleans); I-20 at Mississippi River (Vicksburg); and US 90 at Atchafalaya River (Morgan City).		
12/21-Present	Jefferson St. Bascule Bridge Rehabilitation, Joliet, Illinois Project manager and structural engineer of record overseeing the rehabilitation of structural, mechanical, and electrical components of this rolling Scherzer lift bridge over the DesPlaines River.		
07/19-07/22	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, Louisiana 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 and reliability. Oversaw the development of a unique monitoring and sensor installation plan, the installation of 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 including the installation of polyester polymer concrete lift span orthotropic deck overlay repairs, replacement of failed pinion bearings, elimination of lift span-to-approach span contact issues, and the improvement of the lift span seating by counterweight movements and air buffer repairs. Bridge monitoring is ongoing.		
05/19-08/19; 08/20-Present	I-255 Jefferson Barracks Bridge Emergency Repairs, Mehlville, Missouri Project manager responsible for emergency repairs and subsequent rehabilitation repair design. Following the discovery of a 6-foot-long crack in the steel tie girder during a fracture critical inspection, performed an in-depth inspection of details, obtained material samples for lab testing, coordinated emergency repairs, oversaw repair installation, and prepared investigation report. Completed rehabilitation plans for the twin, tied-arch structures with construction ongoing.		
02/19-Present	US 90 over Bayou Ramos, St. Mary Parish, Louisiana Project manager leading the investigation of delayed end cracking of PPC girders. The project includes the evaluation of previously collected monitoring data, development of a detailed finite element model to examine crack initiation, repair options, inspection of existing retrofits, laboratory fatigue testing of CFRP repairs, and recommendations for the cracking.		



16. Staff Experience:

Firm employed by: Wiss, Janney, Elstner Associates, Inc.

Name	Curtis Schroeder, PhD, PE, SE	Years of relevant experience with this employer	7
Title	Supervisor-Other	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	PhD / 2018 / Civil Engineering; MS / 2011 / Civil Engineering; BS / 2009 / Civil Engineering		
Active registration number / state / expiration date	PE: #44013 / WI / 07-2026 SE: 081.008638 / IL / 11-2026 FHWA-NHI-130055 Safety Inspection of In-Service Bridges FHWA-NHI-130053 Bridge Inspection Refresher Training ANST Certification Services LLC NDT Level III Ultrasonic Testing FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges		
Year registered	PE: WI 2015; SE: IL 2021	Discipline	Civil
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive Testing)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
11/24-Present	UT of Bridge Pins and Hangers, Nine Structures, Louisiana Project engineer for visual and ultrasonic inspection of bridge pins and hangers, characterizing and documenting conditions of section loss, cracking, or other forms of distress		
11/21-Present	Susquehanna River Railroad Bridge, Havre de Grace, Maryland Project engineer assisted with UT and PAUT inspection of 45 pinned connections of deck truss railroad bridge with known defect indications. In 2024, assisted with limited, in-depth UT surveys on 70 transfer pins. In 2025, another 63 pin connectors were examined for which the analysis and reporting are ongoing.		
10/24-Present	Chicago Skyway, Stony Island Anchor Bolt Inspection and Analysis, Chicago, Illinois Project manager and team leader for a load rating inspection, anchor bolt inspection, load rating of the steel superstructures and steel substructures, and structural analysis of the anchor bolts at the Chicago Skyway Stony Island Avenue Ramp structures. Repair work resulting from the findings is ongoing. The structures consist of multiple units to carry two ramps over various local streets, the Norfolk Southern Railroad, and, for one of the ramps, the mainline of the Chicago Skyway. Led the visual inspection of all steel members and components and performed ultrasonic testing and field hardness testing on the anchor bolts. Section loss documentation was performed using physical measurement and/or ultrasonic testing.		
10/23-01/24	Fall 2023 Pin Inspections, Indiana Project manager for ultrasonic testing (UT) project to evaluate the fitness for service of the steel pins and associated hanger components or pinned connections on six bridges.		
03/23-Present	ST-1 Steel Weld Inspections on Four Bridges, Missouri Training, testing, and quality assurance (QA) for UT of T-1 steel welds on four bridges. Calibration of paint effects on UT scans; repairs of rejectable welds.		
01/23-06/24	SI-57 over Mississippi River, Cairo, Illinois Project manager for UT inspection of weld splices in nonredundant steel tension truss members fabricated with ASTM A517 (T-1) steel; located welds by eddy current testing; developed alternative UT procedures to inspect welds within the bolted gusset plate connections; and performed UT inspection.		
08/21-10/21	Black Hawk Bridge, Lansing, Iowa Project engineer responsible for UT and PAUT of 21 pinned connections in a steel through truss and suspended spans. Assisted with fracture critical inspection of steel through-truss spans.		



16. Staff Experience:

Firm employed by: Wiss, Janney, Elstner Associates, Inc.

Name	Nathaniel Rende, PE, SE		Years of relevant experience with this employer	21
Title	Principal		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS/ 2005 / Structural Engineering; BS / 2004 / Civil Engineering		
Active registration number / state / expiration date		PE: #22184 / IA / 12-2025; #201602288 / MO / 12-2026; #89268 / FL / 02-2027; #20614-0 / HI / 04-2026; #6201314962 / MI / 03-2027 SE: #081-007243 / IL / 11-2026		
Year registered	PE: IA 2014, MO 2016, FL 2020, HI 2023, MI 2025 SE: IL 2012	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive Testing)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/11-Present	Prequalified Monitoring Consultant, Iowa Completed over 60 projects involving the development and implementation of instrumentation/monitoring plans designed to protect buildings, culverts, sewers, and bridges adjacent to major bridge and road demolition and reconstruction projects. Instrumentation includes vibration, displacement, strain, subsurface displacement (inclinometer), and tilt monitoring. Provided blast demolition consulting services, including vibration attenuation analysis, on several recent projects for Iowa DOT.			
11/24-03/25	Iams Hill Road over Tenmile Creek, Truss Bridge Steel Evaluation, Marianna, Pennsylvania Project manager for project to extract steel samples from various superstructure members and perform laboratory testing of the samples. Metallographic and chemical analyses were performed to evaluate the type of steel and to assess whether metalizing or galvanizing the metals was feasible. Tensile testing to determine the yield strength and ultimate strength of the samples was performed to aid in analysis and design of repairs. Responsible for providing guidance on the options and application of coating systems.			
10/24-07/25	US-30 Bridge Instrumentation and Monitoring, Iowa Project manager for instrumentation and monitoring services during five bridge repair and staged replacement projects (various contractors) along US-30 in Story County and Clinton County, Iowa. Services included preconstruction condition evaluation and documentation of existing bridges; analytical modeling of existing bridges to evaluate tilt and displacement limits during staged replacement; development of instrumentation and monitoring plans and protocols; design and installation of monitoring systems to measure tilt, vibration, and displacement of piers and abutments; real-time monitoring and alerting during adjacent demolition and construction; and analysis and interpretation of monitoring data.			
03/20-01/25	O'Hare Airport United Baggage Handling Post-Tensioned Roof Structure, Chicago, Illinois Project manager for the evaluation of a post-tensioned (PT) roof structure supporting aircraft loading of active taxiway and gate areas. The evaluation consisted of visual inspection; nondestructive testing to determine as-built reinforcing and PT system details using ground-penetrating radar; grout void detection using shearwave tomography (MIRA); corrosion evaluation using half-cell potential mapping; inspection openings of bonded and grouted PT systems; and material sampling and laboratory testing. Evaluated equivalent in-situ compressive strength of concrete columns using ultrasonic pulse velocity, core sampling and statistical analysis of compressive strength test results per ACI 214. Condition evaluation data was used to analyze the roof structure per both building and bridge codes and to design retrofit repairs for increased aircraft loading. Structural engineer of record for design-build repair and shear strengthening of columns supporting the roof structure, providing design drawings and specifications, permitting calculations, and inspection and quality assurance testing of repairs. Repairs primarily consisted of partial-depth concrete replacement, epoxy-injection of cracks, and installation of carbon-fiber-reinforced polymer (CFRP) strengthening systems.			



16. Staff Experience:

Firm employed by: KGC Environmental Services, Inc.

Name	Kevin Guth, DrPH, CIH, PMP		Years of relevant experience with this employer	27
Title	Principal		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		Doctor of Public Health (DrPH) / 2020 / Chemical Risk Assessment/Toxicology; MSPH / 1996 / Industrial Lead Based Paint		
Active registration number / state / expiration date		CIH: #10438 / 06-30-2028 PMP: #2019290 NACE CIP: #50841 / 04-08-2028		
Year registered	2017, 2013, 2009		Discipline	Certified Industrial Hygienist
Contract role(s) / brief description of responsibilities		Sampling, Instrument, Non-Destructive Testing (Painting/Coating, Testing, Sampling)		
Kevin will provide leadership and oversight of all aspects of the project. He will lead the scope areas that include project management, coordination, and project reporting. Kevin will provide quality assurance oversight of all environmental testing and coatings material and field coatings assessments. Kevin has been performing coatings assessments and related services including industrial hygiene and environmental services for over the past 30 years. His expertise extends to assessing both personal and ambient exposures through air monitoring during paint removal and maintenance operations on various infrastructure such as bridges, water towers, and dams. He has demonstrated his coatings assessment proficiency by assessing and testing bridge coatings on numerous Mississippi River bridges. Kevin has assessed the bridge coating system on numerous interstate overpasses for LADOTD.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/19-10/22	US 90 Atchafalaya River Bridge Rehabilitation, St. Mary Parish, Louisiana Principal/environmental project manager who oversaw comprehensive air sampling, soil analysis, and water quality testing. Ensured contractor's adherence to industry environmental standards and regulatory requirements while delivering precise and actionable insights for clients.			
10/20-07/21	St. John the Baptist Parish, Louisiana Principal/coatings team leader for industrial coatings assessments for 16 elevated water towers. Oversaw project planning, execution, and quality assurance to ensure compliance with safety standards and client specifications. Provided leadership and guidance to team members, fostering a collaborative, efficient work environment to meet project deadlines and deliver results.			
02/18-08/19	I-10 Clean, Paint and Miscellaneous Repairs, Baton Rouge, Louisiana Principal/environmental project manager who oversaw comprehensive air sampling, soil analysis, and water quality testing. Ensured contractor's adherence to industry environmental standards and regulatory requirements while delivering precise and actionable insights for clients.			
12/17-08/18	I-20 Overpass Rehabilitation, Bossier City, Louisiana Principal/environmental project manager who oversaw comprehensive air sampling, soil analysis, and water quality testing. Ensured contractor's adherence to industry environmental standards and regulatory requirements while delivering precise and actionable insights for clients.			
08/16-10/17	US 90 Huey P. Long Bridge Clean and Paint, Bridge City, Louisiana Principal/environmental project manager who oversaw comprehensive air sampling, soil analysis, and water quality testing. Ensured contractor's adherence to industry environmental standards and regulatory requirements while delivering precise and actionable insights for clients.			
12/15-06/17	US 90 Over Mississippi River Bridge (GNO2) Structural Repairs and Spot Painting, New Orleans, Louisiana Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.			



16. Staff Experience:

Firm employed by: KGC Environmental Services, Inc.

Name	Ron Glockner	Years of relevant experience with this employer	2
Title	Senior Coatings Inspector (Bridge)	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		N/A	
Active registration number / state / expiration date		NACE - Coatings, Level 3 / N-18033	
Year registered	2016-2028	Discipline	NACE - Coatings Inspector Level 3
Contract role(s) / brief description of responsibilities		Sampling, Instrument, Non-Destructive Testing (Painting/Coating, Testing, Sampling)	
Ron is a Senior Coating Inspector (NACE Certified Coatings Inspector) bringing over 30 years of specialized coating inspection experience on major complex structures including bridges, dams, water towers, and pipelines. Ron has served as an environmental monitor and coating inspector on numerous painting and rehabilitation projects, delivering thorough oversight of surface preparation, application, and quality assurance processes. His extensive background encompasses lead removal and repainting work on critical infrastructure for various Departments of Transportation, the US Army Corps of Engineers, and private clients, ensuring compliance with stringent industry standards and long-term durability in demanding environments.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/19-10/22	US 90 Atchafalaya River Bridge Rehabilitation, St. Mary Parish, Louisiana Conducted on-site environmental monitoring, encompassing air sampling for lead, as well as soil and water sampling and analysis. Oversaw contractor's implementation of proper procedures for waste treatment, handling, and disposal		
4/24-Present	USACE Projects (Tainter Gates), Nationwide, USA Over the past two years, Ron has performed comprehensive coating inspections on multiple tainter gate rehabilitation projects, providing hands-on oversight of surface preparation (including abrasive blasting to SSPC-SP 10 Near-White standards and profile verification), lead abatement and removal, environmental condition monitoring, coating mixing/application, inter-coat inspections, and post-application testing such as DFT per SSPC-PA 2, adhesion, holiday detection, and final visual defect evaluations. These inspections were conducted in challenging marine and riverine environments under wet and corrosive conditions typical of dam and spillway structures. All work was fully documented with daily reports, checklists, photographs, and compliance records to ensure adherence to project specifications and industry standards. This tainter gate coating inspection experience directly relates to LADOTD bridge preservation projects, as both involve protecting steel infrastructure from similar humid, coastal, and riverine corrosion threats through robust surface prep and high-performance coating systems.		
2015 - 2020	Multiple DOTs, Nationwide, USA These inspections encompass all critical steps: pre-surface preparation assessments of steel condition, contaminants, and substrate repairs; abrasive blasting verification to SSPC-SP 10 Near-White standards with anchor profile measurements; continuous environmental monitoring of temperature, humidity, and dew point; real-time oversight of coating mixing, application techniques, wet film thickness, and inter-coat curing; plus post-application testing including DFT per SSPC-PA 2, adhesion, holiday detection, and final visual defect checks. Ron's extensive experience working with Aegion on major bridge coating projects ensures expert oversight of all inspection phases—from surface preparation and environmental controls to full coating application testing and documentation—which is critical for delivering durable corrosion protection on Louisiana's bridges.		



16. Staff Experience:			
Firm employed by: Forte and Tablada, Inc.			
Name	Brent Campbell	Years of relevant experience with this employer	13
Title	Group Leader - Advanced Measurements	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2013 / Construction Management	
Active registration number / state / expiration date		PE: #3956975 / N/A / 10-29-27 ATSSA Louisiana Traffic Control Supervisor - LA State Specific FAA Team Part 107 Small UAS Recurrent Certification	
Year registered	N/A	Discipline	FAA Certified Remote Pilot
Contract role(s) / brief description of responsibilities		Sampling, Instrument, Non-Destructive Testing (Advanced Measurements/Scanning)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/25-06/25	US 167 Median Improvements, Vermilion Parish, Louisiana Advanced measurements group leader to provide topographic and mobile LiDAR surveying for median improvements of the US 167. The survey included over 2 miles along a divided four-lane highway in a rural area.		
01/16-Ongoing	I-49 Connector, Lafayette Parish, Louisiana LiDAR technician and group leader responsible for providing terrestrial LiDAR survey of roadway features for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Completed terrestrial LiDAR scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.		
01/23-01/24	US 190 Livingston Parish Line, East Baton Rouge Parish, Louisiana Advanced measurements group leader responsible for management and QA/QC of performing mobile LiDAR and extraction for project providing topographic survey. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements. Mobile LiDAR was utilized throughout the project to obtain topographic data without endangering surveyors.		
03/24-03/24	Highway 47 Over Bayou Bienvenue Emergency Bridge Replacement, St. Bernard and Orleans Parish, Louisiana LiDAR project lead to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to conventional topographic survey, hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.		
05/21-12/22	Calcasieu River Bridge (HBI), Calcasieu Parish, Louisiana Advanced measurements group leader responsible for mobile LiDAR acquisition and extraction, as well as hydrographic survey acquisition and extraction efforts. The project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. Completed mobile LiDAR scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors. The survey also included multibeam hydrographic survey of Lake Charles and terrestrial LiDAR scanning of bridge substructures.		
03/21-12/21	MOVEBR Florida Boulevard Corridor Enhancement, East Baton Rouge Parish, Louisiana Mobile LiDAR technician responsible for assisting with capturing mobile data. Responsible for processing and extracting the mobile LiDAR data. This project is in a dense urban area and is approximately 4 miles long. Completed mobile LiDAR services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.		



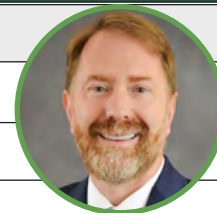
16. Staff Experience:	
11/19-12/20	Calcasieu River Bridge Repairs, Calcasieu Parish, Louisiana Advanced measurements group leader responsible for the management and QA/QC of data and deliverables for the terrestrial laser scans underneath the bridge for 10 spans on the east and west side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, performed mobile LiDAR for future planning.
10/19-10/20	Inspection of Metal Culverts, Statewide, Louisiana Advanced measurements group leader responsible for the management and QA/QC for inspections and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of 3D laser scanning, sonar, and LiDAR.
06/19-09/19	Danziger Bridge Repair, Orleans Parish, Louisiana Project manager responsible for topographic and monitoring survey, and terrestrial LiDAR scanning of Danziger bridge. This survey was necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge.
01/18-06/19	I-10 (LA 415 to Essen Lane to I-10 and I-12), East and West Baton Rouge Parishes, Louisiana Project manager responsible for scanning efforts for topographic survey of approximately 5 miles of roadway along I-10 and I-12 between Louisiana State University lakes and Essen Lane. This survey was part of a larger project that extended west to LA 415 and included a team of four survey firms to complete the work on schedule.
10/18-05/19	Sunshine Bridge Emergency Repair, St. James Parish, Louisiana Project manager responsible for working with the design team to formulate a practical solution for attaining advanced measurements that were compatible with traditional measuring practices which were required for the structural analysis and repair design for the bridge. Additionally, assisted in scanning for incremental bridge movement as well as monitoring bridge movement as LADOTD jacked on members to place new beams using Faro Scene and MicroStation.
05/17-10/18	Belle Chasse Bridge and Tunnel (HBI), Plaquemines Parish, Louisiana Project manager overseeing terrestrial LiDAR and hydrographic survey efforts for comprehensive topographic surveying for the Belle Chasse Bridge and Tunnel Replacement project for LADOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway, bridge and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and exterior features of the existing tunnel.
10/12-03/13	I-10 (Highland to LA 73), East Baton Rouge and Ascension Parishes, Louisiana Terrestrial LiDAR technician responsible for assisting with scanning of bridges as well as processing and extracting topographic information. Project was a topographic survey of approximately 7 miles to widen the interstate. Terrestrial LiDAR was utilized on all bridges as a means to obtaining topographic data without endangering surveyors.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Brian Powell, PE		Years of relevant experience with this employer	22
Title	Senior Geotechnical Engineer/Squad Leader		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 2007 / Civil Engineering (Geotechnical); BS / 2002 / Civil Engineering		
Active registration number / state / expiration date		PE: #41551 / LA / 09-30-2027		
Year registered	LA 2017		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Geotechnical Services (Geotechnical Engineering)		
Brian is experienced in developing work scopes, managing subsurface investigations, design, plans and preparing specifications for geotechnical aspects of transportation, bridge, railway, aviation, architectural, environmental and water infrastructure projects. His design experience includes pavement, levees, embankments and floodwalls, temporary and permanent earth retention systems, settlement, slope stability, seepage and cutoff, shallow and deep foundations, lightweight fill, soil improvement and geosynthetics.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/15-Present	LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana Geotechnical task lead for the Phase II floodwall design at the Larose to Golden Meadow levee system that required a 408-permit review with the USACE. The project included the construction of 9 miles of bridge from Leeville to Golden Meadow. Geotechnical tasks included T-wall-type floodwall design and foundation support, seepage cutoff, and global stability analyses according to USACE Hurricane Storm Damage and Risk Reduction System design guidelines with a 3-D settlement analysis to estimate floodwall subsidence. Oversaw pile production driving and dynamic testing documentation for Phase 2E.			
01/19-Present	I-10-Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana Senior geotechnical contributor for the design-build Owner’s Verifier CEI support services contract. Responsibilities include review of design reports, design criteria, adherence to the performance-based specifications and constructability of Design-Builder’s progress submittals of this critical interchange connecting I-10 and Loyola Ave through the local urban communities and downtown New Orleans to the Louis Armstrong New Orleans International Airport terminal expansion.			
01/18-06/19	LA 23 Belle Chasse Bridge and Tunnel Replacement P3, Belle Chasse, Louisiana Geotechnical technical procurement team member on this alternative delivery bridge and tunnel replacement project, tasked with the development of technical procurement documents. This P3 project, the first of its kind in Louisiana, will replace two obsolete highway facilities with one new fixed-span bridge.			
12/17-08/21	I-20 Eastbound Flyover at I-55 Bridge Replacement, Hinds County, Mississippi Geotechnical task lead for the design and development plans and specifications for the approximate 1,800-foot proposed bridge with a span over the ICRR corridor. He was responsible for the geotechnical subsurface exploration drilling plan, management and findings, estimated geotechnical design soil parameters, deep foundation shaft analyses and recommendations including bi-directional load test plans, settlement analysis at proposed embankment fill locations, slope stability analyses of existing fill slopes requiring H-pile reinforcement, permanent cantilevered sheet pile retaining wall analysis, temporary shoring, and construction recommendations. He is also providing engineering support during advertisement and construction.			





16. Staff Experience:	
03/20-Present	West Shore Lake Pontchartrain 109 Levee and Floodwall Design, St. John the Baptist Parish, Louisiana Senior geotechnical engineer task lead for approximately one mile of earthen levee embankment and T-wall type floodwall for nine pipeline crossings. Design consists of the development of strength and consolidation design parameters, earthen levee embankment design, including slope stability, settlement and seepage. The T-Wall design includes pile capacity analyses, group settlement, downdrag and settlement induced bending evaluations. Also, the T-Wall tie-in design includes preloading and wick drains.
07/19-Present	Comite River Diversion, Bayou Baton Rouge Drop Structure Rock Chute, Bridge, and Pump Station, East Baton Rouge Parish, Louisiana Senior geotechnical engineer task lead and HNTB project manager responsible for geotechnical design and management of scour countermeasure and pump station design for approximately 4,000 feet of a 50-foot-deep by 300-foot-wide diversion channel, 2,500 feet of rock chute drop structure and temporary bypass channels, Carney Road bridge PPC pile foundation and 1.5 cubic feet squared submersible pump station. The environmental pump station was required for recharge of downstream Bayou Baton Rouge. Geotechnical design included pile foundations and preload analyses, downdrag evaluation, channel slope stability, temporary retaining structure design and excavation dewatering evaluations.
02/20-Present	MoveEBR New Capacity Improvements Projects, East Baton Rouge City-Parish, Louisiana Senior geotechnical engineer responsible for technical oversight for 40 planned MoveEBR roadway improvement projects including providing additional capacity on existing routes or new routes through greenfields in East Baton Rouge Parish. Mr. Powell was responsible for developing project geotechnical and pavement design guidelines in accordance with LADOTD requirements, review of scope and fee for design proposal, and review of technical geotechnical and pavement submittals for conformance with program design criteria for development of construction documents.
03/21-Present	Gordon Country Club Dam Evaluation Study, Paris, Texas Senior geotechnical engineer responsible for performing geotechnical tasks as part of a hydrologic study to estimate flood magnitudes and hydraulic capabilities of the Gordon Lake Country Club Dam and to develop preliminary action plans and proposed improvements. He is responsible for data collection, site visit and senior technical review for alternative analysis recommendations.
09/19-Present	Kansas City Levees, Kansas City, Missouri and Kansas Senior geotechnical engineer responsible for design guidance, senior technical reviews and constructability reviews for 17 miles of levee and floodwall raise for the Armourdale and Central Industrial District levee units. The \$453 million construction project protects over \$9.5 billion in infrastructure. The design includes new earthen levee alignments and raises to existing earthen levee alignments, new floodwall and modifications to existing floodwall, gate wells, utility relocations, stoplog closures, sandbag closures, and pump station abandonments. The project also includes extensive railroad coordination.
07/18-04/19	US 90 over LA 14 Bridge Reconstruction, Iberia Parish, Louisiana Geotechnical engineer on the replacement of US 90 over LA 14 that included drilled shaft construction and MSE walls. The proposed two-span bridge will carry US 90 traffic and is designed to be supported on drilled shaft foundations with Mechanically Stabilized Earth (MSE) walls at the approach embankments. Mr. Powell geotechnical engineering tasks included substructure design of deep foundations for the new bridge over LA 14 including drilled shafts and steel H-piles as well as the MSE wall design and settlement calculations.
07/18-04/19	LA 532 over I-20 Bridge Replacement, Webster Parish, Louisiana Geotechnical engineer for an off-alignment bridge replacement with an accelerated design and plan development schedule. Geotechnical tasks included the design for drilled shaft foundations and the development of bi-directional load tests.
01/18-10/18	I-20 Eastbound Bridge at I-55 South, Hinds County, Mississippi Geotechnical engineer responsible for review of original design and geotechnical investigation, additional drilling program as well as the design the of the bridge foundation, temporary and permanent shoring, embankment settlement analysis, slope stability, including H-Pile stabilization.
07/17-09/20	Plaquemines Parish Jesuit Bend 100-Year Levee Enlargement, Plaquemines Parish, Louisiana Geotechnical engineer responsible for the design and development of plans and specifications of levee enlargement for the hurricane back levee Jesuit Bend Polder, Oakville to Alliance.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Jared Sommers, PE 9	Years of relevant experience with this employer	14
Title	Senior Geotechnical Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2012 / Civil Engineering; BS / 2007 / Mathematics		
Active registration number / state / expiration date	PE: #40978 / LA / 03-31-2027		
Year registered	LA 2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering); MPR 9		
Jared is a geotechnical project engineer experienced in developing work scopes, managing subsurface investigations, design, plans, and preparing specifications for geotechnical aspects of transportation, bridge, railway, aviation, architectural, environmental and water infrastructure projects for private sector, municipal, state and federal clients. He has engineering experience in Louisiana, Mississippi, Texas, Arkansas, Missouri and Iowa. His expertise includes levees, embankments, floodwalls, settlement, slope stability, seepage and deep foundations. He has over 10 years experience in geotechnical design involving Louisiana soils and bridge structures.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/24-Present	I-10 Calcasieu River Bridge Replacement, Calcasieu Parish, Louisiana Geotechnical subject matter expert for the I-10 Calcasieu River Bridge Replacement project that involved Louisiana soils and bridge structures. Geotechnical engineer led a team of engineers to review reports, plans, and specifications relating to the bridge replacement project through all phases of the project.		
03/24-Present	Off-System Bridge Program, Louisiana Geotechnical engineer responsible for the design of 13 off-system bridges, including geotechnical design involving Louisiana soils and bridge structures, consisting of pile tip determination, required nominal pile resistance, slope stability, settlement, bearing capacity, and sheet pile wall design.		
09/20-03/21	LA 1 over Caddo Lake Bridge Replacement, Caddo Parish, Louisiana Geotechnical engineer for an off-alignment bridge replacement, performing geotechnical design involving Louisiana soils and bridge structures. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, approach embankment settlement calculations, and slope stability.		
07/18-06/20	Comite River Diversion US 61 and KCS Railway Bridges and Shoofly Design, East Baton Rouge Parish, Louisiana Geotechnical engineer responsible for the Comite River Diversion drilling program, stability design and bridge foundations for the new KCS Railway and US 61 bridges over the Comite river diversion project, including geotechnical design involving Louisiana soils and bridge structures. Foundations included PPC piles, steel pipe piles and drilled shafts up to 12 feet in diameter.		
02/19-12/19	US 80 Bridge Replacement over the Kansas City Southern Railroad, Rankin County, Mississippi Geotechnical engineer tasked with quality control of the deep foundation shaft analyses and recommendations including bi-directional load test plans, temporary shoring design, settlement analysis and slope stability analysis. The project consisted of the replacement of a two-lane northwest bound bridge and a two lane southeast bound bridge northwest of I-20. The proposed bridges were designed to be founded on drilled shafts in unique soil conditions.		
07/18-04/19	US 90 over LA 14 Bridge Reconstruction, Iberia Parish, Louisiana Geotechnical engineer on the replacement of US 90 over LA 14 involving Louisiana soils and bridge structures, that also included drilled shaft construction and MSE walls.		



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Brad Wilder, PE		Years of relevant experience with this employer	14
Title	Senior Geotechnical Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		MS / 2007 / Geotechnical Engineering; BS / 1999 / Geotechnical Engineering and Geology		
Active registration number / state / expiration date		PE: #40735 / LA / 09-30-2026; #32184 / MS / 12-31-2027; #40186 / WI / 07-31-2026; #13141156-2202 / UT / 03-31-2027; #151266 / TX / 12-31-2026		
Year registered	LA 2016, MS 2021, WI 2009, UT 2022, TX 2024		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Geotechnical Services (Geotechnical Engineering)		
Brad is a geotechnical engineer in HNTB's New Orleans office with more than 20 years of experience. His experience includes multiple complex infrastructure design projects including residential, industrial, municipal, government and commercial projects. His geotechnical experience includes a variety of subsurface explorations, geophysical explorations, analysis and foundation design for buildings, roadways, bridges, embankments, and retaining walls. He has design and construction experience with deep foundations, retaining walls and ground improvement methods for stability and settlement mitigation. He has been involved with multiple complex infrastructure design projects, field construction management, and levee evaluation and design.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/24-Present	I-10 Calcasieu River Bridge Public-Private Partnership Project Owner's Verification, Louisiana SME for geotechnical reviews based on project technical provisions. Reviews included subsurface exploration, pavement design, retaining walls, embankment, and bridge deep foundations.			
03/23-Present	Louisiana Highway 1 Bridge, Phase 2, Golden Meadow, Louisiana Senior geotechnical engineer responsible for assisting with review of pile driving data and construction engineering support. HNTB coordinated with the Louisiana Department of Transportation and Development to provide preliminary and final design services for Phase 2 of the Louisiana Highway 1 Bridge project—an 8-mile elevated span currently under construction. The bridge is replacing a long section of at-grade roadway that frequently requires closures and maintenance due to hurricane storm surge events.			
09/20-03/21	LA 1 over Caddo Lake Bridge Replacement, Caddo Parish, Louisiana Geotechnical engineer for an off-alignment bridge replacement. Geotechnical tasks included foundation design using PPC piles, drivability, approach embankment settlement calculations, and slope stability.			
07/18-06/20	Comite River Diversion US 61 and KCS Railway Bridges and Shoofly Design, East Baton Rouge Parish, Louisiana Geotechnical engineer responsible for the Comite River Diversion drilling program, stability design and bridge foundations for the new KCS Railway and US 61 bridges over the Comite river diversion project. Foundations included PPC piles, steel pipe piles and drilled shafts up to 12 feet in diameter.			
03/20-Present	I-10/Loyola Interchange DB OV, Jefferson Parish, Louisiana Senior geotechnical engineer for the DB owner's verifier CEI support services contract. Responsibilities include review of design reports, design criteria, adherence to the performance-based specifications and constructability of design-builder's progress submittals. Senior technical reviews include verifying pavement design reports, deep foundation support and load tests for new roadway flyover and canal bridges, embankment settlement and preload evaluations, slope stability, and sound wall stability meet LADOTD design standards.			
07/18-04/19	US 90 over LA 14 Bridge Reconstruction, Iberia Parish, Louisiana Geotechnical engineer on the replacement of US 90 over LA 14 that included drilled shaft construction and MSE walls.			



16. Staff Experience:

Firm employed by: Ardaman & Associates, Inc.

Name	Megan Bourgeois, PE	Years of relevant experience with this employer	20
Title	Principal Engineer / Assistant Branch Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2006 / Civil Engineering	
Active registration number / state / expiration date		PE: #36725 / LA / 03-31-2028 ATSSA Louisiana Traffic Control Supervisor Refresher - LA State Specific ATSSA National Flagger	
Year registered	LA 2011	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Services (Geotechnical Engineering)	
Megan has more than 20 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has served as Ardaman's project manager for many LADOTD projects for bridges and roadways throughout Louisiana and completed numerous geotechnical investigations, engineering, and reporting in accordance with LADOTD standards. She has successfully overseen several major contracts for LADOTD and other clients. Ms. Bourgeois also serves as the director of our geotechnical engineering and CMT laboratories in Baton Rouge and has overseen the laboratory testing programs in accordance with LADOTD standards. In this role, she supervises the laboratory managers, oversees testing, provides guidance to laboratory staff, and ensures appropriate protocol is followed and deadlines are met in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ & USACE.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-Present	LA 1 to LA 30 Connector, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, Louisiana Project engineer who helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments.		
02/20-Present	LA 23, Belle Chasse Bridge & Tunnel, Plaquemine Parish, Louisiana Project Engineer/Laboratory Director overseeing review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well as quality control and review of all acceptance verification sampling and testing during construction.		

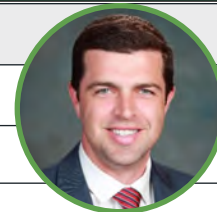


16. Staff Experience:	
10/09-Present	I-20 Mississippi River Bridge Review, Vicksburg, Mississippi Project manager who manages this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, Mississippi. She managed a highly technical team including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction, x-ray scanning of unextruded samples to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. In addition, Megan performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report.
07/21-01/22	I-10 Calcasieu River Bridge, Calcasieu Parish, Louisiana Project manager who managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Megan also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
04/21-Present	Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, Louisiana Project engineer who leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, over various size rivers and creeks.
10/15-Present	Pecue Lane I-10 Interchange, East Baton Rouge Parish, Louisiana Project manager who managed all aspects of the project that included field investigations, laboratory testing, and engineering design. She performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. She is currently assisting with the field construction monitoring. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge.
09/22-Present	Evangeline Road & CN Railroad Culvert, St. Charles Parish, Louisiana Project engineer who completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
07/23-Present	US 371 KCS Railroad Overpasses HBI, Webster Parish, Louisiana Project engineer who performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge.

16. Staff Experience:

Firm employed by: Ardaman & Associates, Inc.

Name	Robert Jewell, PE	Years of relevant experience with this employer	19
Title	Project Engineer / Branch Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering		
Active registration number / state / expiration date	PE: #38579 / LA / 09-30-2026 ATSSA Louisiana Traffic Control Supervisor Refresher - LA State Specific Pile Dynamics Dynamic Measurement and Analysis Proficiency Certificate ATSSA National Flagger		
Year registered	LA 2013	Discipline	Civil
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering)		
Robert serves as the manager of our Baton Rouge office and has over 15 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Robert has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation. In particular, he has over 15 years of experience performing, analyzing, and reporting for PDA testing, including CAPWAP.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-Present	LA 1 to LA 30 Connector, West Baton Rouge, Iberville, Ascension and East Baton Rouge Parishes, Louisiana Project manager who managed supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments.		
07/21-Present	I-10 LA 415 to Essen Lane on I-10 & I-12 (CMAR), Baton Rouge Parish, Louisiana Project manager who leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.		
09/22-Present	Evangeline & CN Railroad Culvert, St. Charles Parish, Louisiana Project manager who completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two RCBCs on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.		
07/23-Present	US 371 CPKC Railroad Overpasses HBI, Webster Parish, Louisiana Project manager who performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge.		

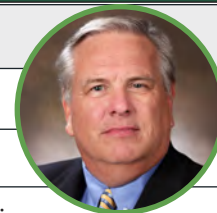


16. Staff Experience:	
10/18-11/21	I-220/I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, Louisiana Project manager who prepared the preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base and constructing an interchange and access road from Interstate 20 in Bossier City. He oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring.
04/21-Present	Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, Louisiana Project manager who leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of small two-lane bridges throughout areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks.
07/21-01/22	I-10 Calcasieu River Bridge, Calcasieu Parish, Louisiana Project engineer who led technical review of all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Robert also assisted with review of the laboratory testing program, processing and analyzing of the ECPT and ER data. He also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
04/14-05/23	I-12 to Bush Segment 2, LA 3241 (LA 36-LA435), St. Tammany Parish, Louisiana Project manager who oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. Developed the design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Oversaw the construction phase which included dynamic testing and settlement monitoring.
10/09-Present	I-20 Mississippi River Bridge Review, Vicksburg, Mississippi Project engineer who assisted in several aspects of engineering for this multi-million dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, Mississippi. This project consisted of a comprehensive laboratory testing program and refinement of the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing included x-ray diffraction, x-ray scanning of unextruded samples and stress-reversal direct shear tests to determine true residual angles of critical strata. This project also included an extensive geotechnical instrumentation program including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. In addition, seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement were completed.
10/15-Present	Pecue Lane I-10 Interchange, East Baton Rouge, Louisiana Project engineer who helped perform analyses including settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. Mr. Jewell is currently overseeing the construction phase which includes PDA monitoring, static load testing, and settlement monitoring. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge.
07/15-Present	I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE), Lafayette Parish, Louisiana Project manager responsible for overseeing and coordinating completion of the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings, and laboratory testing program per LADOTD guidelines for the construction of 5-miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Oversaw the completion of the Geotechnical Data Report and assisted with technical reviews pertaining to selection of design reaches, geotechnical design of pile and drilled shaft foundations, drivability, slope stability, earth retaining structures, settlement analyses and construction testing program recommendations, including an advanced test pile program. Currently overseeing development of the Phase 2 field and laboratory program for each segment.

16. Staff Experience:

Firm employed by: Ardaman & Associates, Inc.

Name	Mark Woodward, PE		Years of relevant experience with this employer	8
Title	Principal Engineer		Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization		MS / 2019 / Risk Management; MS / 1986 / Civil Engineering; BS / 1982 / Civil Engineering		
Active registration number / state / expiration date		PE: #24206 / LA / 09-30-2027		
Year registered	LA 1991		Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Services (Field Investigations/Lab Testing)		
Mark served as a geotechnical engineer for 36 years in the geotechnical branch of USACE New Orleans District, retiring as the Deputy Chief of the Geotechnical Branch and Dam and Levee Safety Program Manager. He was responsible for managing all departments in the branch including engineering, drilling, soils laboratory, dredge material testing, concrete testing, and administration. Mr. Woodward has considerable experience designing and managing various types of projects on the Mississippi River, Atchafalaya Basin and Storm Surge Levees in Southeast Louisiana, Mississippi and Texas, as well as mitigation and coastal projects in Louisiana. These projects included design of major foundation elements for dams, earthen levees, hydraulic structures, floodwalls, revetments, channel stabilization, bank degrading, ground improvement, deep excavations, relief wells, wick drains, dewatering systems, seepage and stability berms, preloads, reinforced levees and marsh creation for mitigation, coastal restoration and protection and beneficial use of dredge material in marsh and coastal environments with field investigations requiring use of specialized marine and marsh drilling equipment. Since 2018, Mr. Woodward has served as Principal Geotechnical Engineer of Ardaman for Louisiana, Mississippi, Alabama, Arkansas, and Texas. Mr. Woodward provides oversight and review of design major foundation elements for transportation, industrial, commercial, and municipal projects.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/21-01/25	Rural Bridges Phase I, Claiborne Parish, Louisiana Principal engineer who provided review of the geotechnical design including pile foundations for 3 bridges. The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana.			
07/23-Present	US 371 KCS Railroad Overpasses HBI, Webster Parish, Louisiana Principal engineer who performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge.			
01/19-12/23	Cheniere Spillway and Bridge Replacement, Ouachita Parish, Louisiana Principal engineer who served as the Principal Engineer for this project which included the replacement of the current damaged spillway and bridge structure in Ouachita Parish.			
10/18-11/21	I-220 I-20 Interchange Improvement and Barksdale Airforce Base Access Road, Bossier Parish, Louisiana Principal engineer who provided quality assurance oversight for this project, reviewing the work during the design and construction phase. This Design Build project consisted of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from Interstate 20 in Shreveport, Louisiana.			
05/18-08/19	I-12 Widening, US 190 to LA 59, St. Tammany Parish, Louisiana Principal engineer who provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mr. Woodward provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments			



16. Staff Experience:

Firm employed by: Ardaman & Associates, Inc.

Name	Jarmon King, PE	Years of relevant experience with this employer	7
Title	Project Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2019 / Civil Engineering	
Active registration number / state / expiration date		PE: #49179 / LA / 03-31-2027 ATSSA Louisiana Traffic Control Supervisor Refresher - LA State Specific Pile Dynamics Dynamic Measurement and Analysis Proficiency Certificate ATSSA National Flagger	
Year registered	LA 2024	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Services (Field Investigations/Lab Testing)	
Jarmon serves as a project engineer who oversees and conducts geotechnical investigations. Jarmon prepares soil boring logs; processes and analyzes CPT sounding design and analyses of multiple types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA and GEC design, slope stability and earth retaining structures. He has experience in performing PDA testing during construction.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-Present	LA 1 to LA 30 Connector, Iberville, Ascension and East Baton Rouge Parishes, Louisiana Project engineer who oversees the field program, development of the laboratory testing program, development of an interactive geotechnical database to compile all the soil borings and ECPT. Helped perform the preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. Assisted in preparation of the data and design reports for this project. The project consists of an enhanced planning investigation into the connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments.		
07/21-Present	I-10 LA 415 to Essen Lane on I-10 and I-12 CMAR, Baton Rouge Parish, Louisiana Project engineer who co-manages and oversees the engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Helped develop the Geotechnical Data reports, memorandums, and Design reports for this project. The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.		
04/21-Present	Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, Louisiana Assistant project engineer who assisted in selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines. This project replaces small two-lane bridges throughout areas of Southeast Louisiana which ranged in length from 100 to 400 feet, mainly over small rivers and creeks.		
07/21-01/22	I-10 Calcasieu River Bridge, Calcasieu Parish, Louisiana Assistant project engineer for the coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. Most soil borings were completed from a barge with some over a considerable amount of water. Others were completed from a marsh buggy over shallow water and thick marsh grass. Assisted with laboratory testing, processing and analyzing of ECPT and ER data, development of a geotechnical database, and preparation and submittal of a geotechnical data report. Obtained preliminary geotechnical data under a strict deadline to be used in the design phase.		



16. Staff Experience:

Firm employed by: Ardaman & Associates, Inc.

Name	Jessica Litt	Years of relevant experience with this employer	12
Title	Laboratory Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2010 / Biology	
Active registration number / state / expiration date		NICET Geotechnical Laboratory Level 1	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Geotechnical Services (Field Investigations/Lab Testing)	
Jessica serves as Laboratory Manager of Ardaman's Baton Rouge laboratory which is under the direction of a Registered Professional Engineer. She supervises and manages operations of our AMRL Certified, DEQ Accredited, and USACE-validated laboratory and performs and oversees laboratory testing assignments, organizes, and schedules testing, trains and develops technicians, and supervises five laboratory technicians. Ms. Litt is experienced conducting soil mechanics laboratory testing in accordance with appropriate AASHTO and LADOTD testing protocol, which includes Soil Classification, Atterberg Limits, Grain Size Analysis, Gradation Testing, Organic Content, Hydrometer Analysis, Moisture Content, Consolidation Testing, Hydraulic Conductivity, pH, Resistivity, Strength Testing (Unconfined, Unconsolidated-Undrained Triaxial, Consolidated-Undrained Triaxial), Direct Shear, Specific Gravity, and Permeability of Granular Soils.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/25-Present	Culvert Replacements, Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, Louisiana Laboratory manager who oversaw the completion of a comprehensive laboratory testing program for 100 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis, Hydrometer, Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs.		
08/24-Present	LA 44 Roundabouts and Widening, Ascension Parish, Louisiana Laboratory manager who oversaw the completion of a comprehensive laboratory testing program for 10 deep and 14 shallow soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Entered the laboratory test results into gINT to produce the LADOTD soil boring logs.		
07/23-Present	LA 1 to LA 30 Connector, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes,, Louisiana Laboratory manager who oversaw the completion of a comprehensive laboratory testing program for 18 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Reviewed the consolidation test results and entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs.		
07/23-Present	IJA Off-System Bridges, Allen, Beauregard, and Calcasieu Parishes, Louisiana Laboratory manager who oversaw the completion of a comprehensive laboratory testing program for 10 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Entered the laboratory test results into gINT to produce the LADOTD soil boring logs.		
07/23-Present	US 371 KCS Railroad Overpasses HBI, Webster Parish, Louisiana Laboratory manager who performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge.		



16. Staff Experience:			
Firm employed by: Ardaman & Associates, Inc.			
Name	Casey Floyd	Years of relevant experience with this employer	5
Title	Drilling Supervisor	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		High School Diploma	
Active registration number / state / expiration date		ATSSA Louisiana Traffic Control Supervisor Refresher - LA State Specific ATSSA National Flagger Louisiana Environmental Wells and Water Well Drilling	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Geotechnical Services (Field Investigations/Lab Testing)	
Corey has over 30 years of experience drilling in the Louisiana Gulf Coast Region including performing soil borings (on land and over water), CPT soundings, monitor well installation and abandonment, and installation of geotechnical monitoring instrumentation. Mr. Floyd has planned and supervised many LADOTD geotechnical investigation projects. He has arranged right of entry, utility locations, site clearing, arranging for police assistance (if needed) and traffic control/crew safety, and coordinating between engineering staff and drill crew. He has also successfully completed a multitude of LADOTD projects consisting of shallow borings and deep soil borings to depths of approximately 300 feet.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/25-Present	Culvert Replacements, Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, Louisiana Drilling supervisor who oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance at each location and coordinated the access along with traffic control. The project consisted of geotechnical field investigations throughout Louisiana consisting of ten soil borings to depths ranging from 100 to 120 feet.		
08/24-Present	LA 44 Roundabouts and Widening, Ascension Parish, Louisiana Drilling supervisor who oversaw the field investigation program consisting of 10 deep and 14 shallow soil borings in accordance with LADOTD guidelines. Performed site reconnaissance, coordinated the access along with traffic control and pavement coring.		
07/23-Present	IJA Off-System Bridges, Allen, Beauregard, and Calcasieu Parishes, Louisiana Drilling supervisor who oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. Performed site reconnaissance, coordinated the access along with traffic control and pavement coring.		
03/22-01/25	Boudreaux Canal Bridge Replacement, Terrebonne Parish, Louisiana Drilling supervisor who oversaw the field investigation program consisting of eight deep soil borings and four CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring. Mr. Floyd oversaw the completion of one of the soil borings that was performed on a barge. The project consisted of replacement of the existing LA 56: Boudreaux Canal Bridge with a new bridge just west of the center line of the existing bridge.		
07/23-Present	US 371 KCS Railroad Overpasses HBI, Webster Parish, Louisiana Drilling supervisor who performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge.		

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Van Short, PE, PTOE, PMP, RSP	Years of relevant experience with this employer	9
Title	Senior Project Manager	Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization		BS / 1984 / Civil Engineering	
Active registration number / state / expiration date		PE: #26026 / LA / 03-31-2028; #69192 / TX / 12-31-2027 PTOE: #5542 PMP: #3909616 RSP: #957	
Year registered	PE: LA 1994, TX 1991; PTOE: 2023; PMP: 2024; RSP: 2022	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Roadway Design)	
Van is a highly skilled project manager with experience in a wide variety of highway design and transportation studies, including feasibility studies, design and reconstruction, PS&E, design-build and utility coordination. He worked for TxDOT for six years in the Tyler and Dallas districts and has vast experience in designing projects following TxDOT and ARDOT specifications. His project management experience includes roadway schematics, off-system bridges, urban highway widenings, multi-level interchanges, multi-lane freeways, HSIP safety projects and interstate rest areas.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/20-Present	Highway 22 I-40 (Arkansas River) P.E. (I-49) PS&E, Crawford and Sebastian Counties, Arkansas Currently serving as project manager for the 13.56-mile new location four-lane freeway. The project consists of four ArDOT Jobs and a full service rest area. Van is also managing the Title II construction phase services for 040901. Van assumed the role of project manager when the design for Job 040901 was 100 percent complete and 60 percent complete for the other Jobs. There are a total of twenty bridges on the project, including a fully directional interchange at I-40 which includes six direct connector bridges. The length of the bridge over the Arkansas River is 5,232 feet. There are 13 overpass bridges. The estimated construction costs are \$926 million.		
02/14-04/17	Mobility35, Austin, Texas Served as engineering technical lead for this General Engineering Consultant (GEC) contract for the TxDOT Austin District. Mobility35 program covers the limits of I-35 in Williamson, Travis and Hays Counties. Served as the project coordinator for three PS&E projects with an estimated construction cost of \$85 million.		
12/13-12/14	I-10 Collector-Distributor PS&E, El Paso, Texas Project manager for this 6-mile section of I-10 to upgrade and widen portions of I-10 and add collector-distributor lanes with an approximate construction cost of \$163 million. The team identified refinements in the schematic that saved enough construction cost for TxDOT El Paso District to remain within the budget. The project included 16 bridges, including seven bridge widenings, two direct connectors. The construction plans were completed in ten months.		
02/14-07/16	I-35 CAIP, Travis County Implementation Plan, Austin, Texas Roadway task manager for Segments 5 and 6 from MLK Boulevard to Woodward Street in the vicinity of downtown Austin and provided direct oversight of the development of concepts and alternatives. Provided direct daily management and coordination for developing mobility improvements within the corridor including an additional thru lane in each direction (possible general purpose, express or managed), interchange modifications, frontage road and ramp enhancements, bike and pedestrian accommodations, and multimodal features and facilities.		



16. Staff Experience:			
Firm employed by: HNTB Corporation			
Name	Kate Prejean, PE ⑧	Years of relevant experience with this employer	26
Title	Associate Vice President / Project Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2000 / Civil Engineering	
Active registration number / state / expiration date		PE: #35036 / LA / 03-31-2028; #19264 / MS / 12-31-2027; #63000 / FL / 02-28-2027	
Year registered	LA 2009, MS 2009, FL 2005	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Roadway Design); MPR ⑧	
Kate serves as a vice president and senior project manager within HNTB's Baton Rouge transportation group, with over 20 years of experience in roadway design. In this role, she serves as a responsible member of the firm. Since joining HNTB in 2000, she has been responsible for highway design on numerous roadway projects, for planning studies including NEPA process studies, public involvement activities, corridor studies and bicycle-pedestrian feasibility studies.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/19-Present	MOVEBR Infrastructure Program, East Baton Rouge, Louisiana Director of preconstruction for the \$1.2 billion program of projects that was separated into a list of capacity and enhancement projects, including roadway design experience. HNTB is responsible for \$800 million in capacity infrastructure projects on 40 roadways throughout the parish of East Baton Rouge. As director of preconstruction, Kate is responsible for ensuring delivery of the projects from conceptual development, selection of design consultants, completion of design study and final design plans, permitting, cost estimating, ROW acquisition, budget tracking, quality assurance and control, coordination with city staff and other stakeholders. Roadway design experience includes reviewing all plan sets for roadway compliance to both City of EBR standards as well as LADOTD standards.		
05/17-06/21	Urban Systems Program, Marconi Drive, MLK Boulevard, Morrison Road I and II, Orleans Parish Rehabilitation Projects, New Orleans, Louisiana Project engineer for the \$20 million roadway reconstruction projects and was responsible for the development and supervision of all roadway design tasks including project plans and specifications including preliminary and final. Roadway design tasks included horizontal geometry submittals for accuracy and compliance with the LaDOTD General Specifications and Standard Plans, Roadway Design Guide, the LaDOTD Complete Streets Policy, and the City of New Orleans Complete Streets Policy and general construction practices		
01/18 - 01/20	I-20 Eastbound over I-55 South, Jackson, Mississippi Roadway design engineer of record and technical roadway lead for the final roadway approach design for a 15-span prestressed concrete beam bridge. Duties performed include project coordination with the client, coordinating with disciplines and leading the roadway technical decisions and design.		
11/17-06/18	I-55 Widening over I-220, Jackson, Mississippi Project engineer and technical roadway lead for the design project for the complex bridge system and approaches and necessary roadway modifications. Roadway design tasks included technical roadway lead for the final roadway approach design of the widened structure.		



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Ryan Felder, PE ⑧		Years of relevant experience with this employer	4
Title	Project Engineer		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		BS / 2011 / Civil Engineering		
Active registration number / state / expiration date		PE: #40154 / LA / 03-31-2028 ATSSA Louisiana Traffic Control Supervisor - LA State Specific		
Year registered	LA 2015		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Roadway Design); MPR ⑧		
Ryan serves as a project engineer in HNTB's Baton Rouge office with over 10 years of experience in roadway design, including development of plan sheets, traffic control, and roadway design for transportation projects. Before joining HNTB, he worked for over a decade at the LADOTD performing roadway design, serving in various roles. He is proficient in several programs, including MicroStation, InRoads and ProjectWise.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/24-Present	IIJA Off-System Bridge Program, District 61, East Baton Rouge Parish, Louisiana Designer and reviewer for five off-system bridge spot replacements, including roadway design and plan sheet development and quality review of the plan set. This \$38.5 million off-system bridge replacement program, replacing 13 bridges separated into 10 projects located throughout East Baton Rouge Parish. Disciplines include bridge, roadway, geotechnical, survey, traffic control and hydraulics.			
07/25-Present	US 80 Bridges Near Minden, District 04, Webster and Bossier Parish, Louisiana Project engineer responsible for roadway design and plan sheet development, traffic control for construction and a quality review of the plan set. This project consists of five bridge replacements at three different sites. Two sites are on a major highway and the other site is located in the town of Minden.			
04/24-08/25	Urban Systems Program, Morrison Road I & II, New Orleans, Louisiana Road designer responsible for roadway design and plan development for this project, part of the New Orleans Urban Systems Program through the LADOTD. HNTB is performing roadway and bridge design, proposal preparation and construction administration with resident inspection. This project included the replacement of two bridges, repair plans for three bridges, and approach slab replacement for five bridges in New Orleans East as part of the complete street improvements to the Morrison Road corridor between Mayo Avenue and Bullard Avenue. This project is funded through the New Orleans Regional Planning Commission and requires adherence to LADOTD requirements.			
09/22-02/25	Plank-Nicholson BRT, Baton Rouge, Louisiana Transportation engineer who supported this project to offer a more accessible and connected transit option, East Baton Rouge transitioned from the TramLinkBR streetcar to a BRT system. Ryan led the design of the roadway design elements including mill and overlay Portland cement concrete pavement, concrete sidewalks, concrete curbs, ADA ramps, and pavement striping. He also produced plan sets in accordance with LADOTD standards and specifications. This work helped secure a \$15 million BUILD Grant and included design oversight throughout the construction process. This comprehensive approach ensured the project aligned with community needs and federal funding requirements.			
09/22-11/22	Gramercy Bridge Rehabilitation, St. James and St. John the Baptist Parish, Louisiana Engineer who developed the traffic control plans which consisted of a detour and shutting down one lane to allow for the bridge to be painted. This project was to paint the bridge over the Mississippi River and slab jack the approaches.			



16. Staff Experience:	
07/18-06/22	Automation Engineer, Statewide, Louisiana Project manager and a committee member responsible for the CAD environment for LADOTD's plan production, ProjectWise and CadConform. Updated the Road Design Manual and some of the Road Design forms. Helped LADOTD's IT department managing their workspace to ensure files were up to date. Assisted engineers by answering program questions and demonstrating how to utilize it. Filtered features and styles to evaluate necessities and streamline the program. Tested necessary features to ensure they worked correctly and fixed them to LADOTD's standards. Reviewed and selected the proposal to upgrade the CAD environment to Windows 10 Operating System and all software. The committee worked closely with the contractor to ensure the work is up to LADOTD's standards.
02/13-05/16	LA 91 Drainage Canal, St. Landry Parish, Louisiana Roadway design engineer responsible for the geometric design and coordination of roadway improvements associated with the replacement of a structurally deficient bridge with a new 100-foot structure. Duties included horizontal and vertical alignment development for roadway approaches to the bridge, as well as the design of the adjacent intersection to meet LADOTD design standards and ensure safe traffic operations. Led the drainage integration within the roadway corridor, including design of a subsurface drainage system to mitigate erosion and maintain long-term roadway stability. Coordinated closely with hydraulic, bridge, and geotechnical teams to support the realignment of the drainage canal beneath the proposed structure and to establish the location and top-of-wall elevation for the sheet pile wall in relation to roadway profile and embankment requirements. Prepared key roadway design deliverables including title sheets, typical sections, summary sheets, plan and profile sheets, cross sections, embankment widening details, and sequence of construction plans, ensuring constructability and maintenance of traffic considerations were incorporated throughout the design.
03/14-11/17	LA 1026 Roundabout, Livingston Parish, Louisiana Roadway design engineer and engineer of record responsible for the geometric layout and design of a three-leg roundabout replacing an existing signalized intersection. Developed horizontal alignment, roundabout geometry, and approach roadway profiles in accordance with LADOTD and AASHTO design criteria to improve safety and traffic operations. Addressed significant site constraints, including a 47-degree skewed intersection and an adjacent storage facility located within the skewed quadrant. Optimized roundabout geometry and approach alignments to avoid impacts to the facility while maintaining required design speeds, deflection, and vehicle accommodation criteria, including turning path requirements for design vehicles. Prepared comprehensive roadway design plans including title sheets, typical sections, summary sheets, plan and profile sheets, cross sections, embankment widening details, and sequence of construction, ensuring constructability and maintenance of traffic were incorporated into the design.
11/25-Present	LA 124 Larto Lake Bridge and Grade Raising, Catahoula Parish, Louisiana Roadway designer and roadway engineer of record for the raising of the roadway elevation by 5 feet over a 0.5-mile length near Larto Lake. Roadway design includes both horizontal and vertical curvatures along the project limits. Several project constraints are present, including an existing flood control structure, constrained ROW limits, an existing detour bridge, and a nearby levee. The project includes an extremely aggressive project schedule allowing for only three project submittals from preliminary through final plans.
8/24-Present	LA 44 I-10 Roundabouts, Ascension Parish, Louisiana HNTB lead roadway designer for interstate connectors. Project includes the replacement of the LA 44 bridge over Conway Bayou as well as the design of new I-10 on/off ramps for the new LA 44 roundabouts. Bridge services include a site inspection of the existing condition of the bridge, development of a widening versus replacement report for the bridge, load rating analysis of the existing bridges, and bridge Preliminary Plan development. Roadway services include design and Preliminary Plan development of the I-10 on/off ramps. Responsible for adherence to schedule, proactive communication, and ensuring all deliverable requirements are met to LADOTD's satisfaction.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Justin Schexnayder, PE		Years of relevant experience with this employer	4
Title	Department Manager - Transportation		Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization		BS / 2009 / Civil Engineering		
Active registration number / state / expiration date		PE: #39511 / LA / 9-30-2027		
Year registered	LA 2015		Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Roadway Design)		
Justin is the transportation department manager in Baton Rouge. He has over 17 years of progressive transportation engineering and planning experience with more than 10 years of experience as a transportation project manager. He began his career in LADOTD's Road Design Section. Throughout his career, Justin's focus has been on transportation, including safety, planning documents (Stage 0s and 1s) and geometric design of highways for plan preparation. Justin is experienced in task order-based contract management and committed to responsive and flexible communication.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-07/25	Soult Street at US 190 Roundabout, St. Tammany Parish, Louisiana Project manager for this roundabout design project. HNTB prepared a Stage 0 evaluation for a roundabout at US 190 and Soult Street in Mandeville. Tasks included conceptualizing the proposed roundabout, environmental inventory and engineering feasibility study, and agency coordination with LADOTD.			
01/24-Present	Florida Boulevard Corridor Enhancement (22nd Street to Airline Highway), Baton Rouge, Louisiana Project manager leading the HNTB team as a subconsultant to Forte and Tablada on this project to re-balance the roadway to address pedestrian and bike safety, synchronize with future transit development, support economic redevelopment, and incorporate green infrastructure. The scope is a design study that includes Complete Streets development, Stage 0 Environmental Checklist, supervision of Environmental Screening, including Hazardous Waste Analysis, Wetlands Assessment, Section 106 Historic Resources Review, and preliminary and final design plans.			
01/24-Present	Urban Systems Program, Morrison Road I & II, New Orleans, Louisiana Project manager for the \$12 million roadway reconstruction and enhancement project in New Orleans under the City's Urban Systems Program through LADOTD. Scope includes replacement of the pavement and base course, sidewalks, driveways, curbs, and the addition of ADA-compliant curb ramps at all intersections. Justin oversaw the development of preliminary and final design plans.			
01/24-Present	Plank-Nicholson BRT, Baton Rouge, Louisiana Project manager for this project. HNTB is responsible for roadway design, traffic engineering and construction administration, including the replacement of concrete and asphalt pavement, sidewalks, driveways, curbing, the addition of ADA-compliant accessible ramps at all intersections, bus stations and permanent striping and bike lanes. The team developed an application and helped secure a \$15 million BUILD Grant, then developed construction plans and specifications for the limits of the project. Close coordination with City-Parish, CATS and LSU was critical to the success of the project. Additional services included support for ROW acquisition, environmental review, survey work, and design oversight throughout the construction process. This comprehensive approach ensured the project aligned with community needs and federal funding requirements. LADOTD coordination and approval was necessary for Nicholson Drive improvements and stations.			



16. Staff Experience:	
07/25-Present	US 80 Bridge Replacements, Minden, Louisiana Roadway lead for this bridge replacement project involving the rehabilitation and replacement of multiple deteriorating structures, including associated roadway tie-ins. Justin oversees preliminary and final roadway plan development including title sheets, typical sections, plan/profile sheets, and cross sections across all structures. He leads preparation of key design components such as quantity summaries, drainage mapping, survey control, and embankment widening to support coordinated plan production. Justin directs development of traffic control, striping, detour layouts, and intersection geometric details to maintain safe and efficient operations throughout construction.
06/23-04/26	LA 49/Williams Boulevard Improvements, Kenner, Louisiana Supervisor engineer for the \$10 million roadway reconstruction project responsible for the review of project plans and specifications. Tasks include preliminary and final submittals for accuracy and compliance with the LADOTD General Specifications and Standard Plans, Roadway Design Guide and general construction practices. Coordinated with City of Kenner and Jefferson Parish staff for non-standard accessible ramp design and utility-related issues.

16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Paul Hinojo, PE	Years of relevant experience with this employer	6
Title	Senior Roadway Project Engineer	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	PE: #140966 / TX / 07-31-2027		
Year registered	TX 2021	Discipline	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Roadway Design)		
Paul has experience in roadway design and planning preparation for PS&E and schematic projects. His design experience includes geometric design, traffic control design, signing and pavement marking design, and 3D corridor modeling.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/25-Present	US 80 Bridges Near Minden, Webster Parish, Louisiana Roadway oversight engineer responsible for the quality checking of the roadway designs and plan development for 2.5 miles of roadway required to replace four bridges along US 80. Responsible for ensuring all designs and plans are prepared in accordance with AASHTO and LADOTD guidelines. Roadway tasks include temporary median crossovers, roadway superelevation, sequence of construction, and temporary traffic control.		
11/25-Present	LA 124 Larto Lake Bridge and Grade Raising, Catahoula Parish, Louisiana Roadway oversight engineer responsible for the quality checking of the roadway designs and plan development for 0.5 mile of roadway grade raising along LA 124 near Larto Lake. Responsible for ensuring all designs and plans are prepared in accordance with AASHTO and LADOTD guidelines. Roadway tasks include final roadway grade placement 5 feet above existing grade, 0.5 mile of roadway detour road placement, sequence of construction, and temporary traffic control.		
08/24-Present	LA 44 I-10 Roundabouts, Ascension Parish, Louisiana Roadway oversight engineer responsible for the quality checking of the roadway designs and plan development for 1.1 miles of roadway for the I-10 on and off ramps at the LA 44 interchange. Responsible for ensuring all designs and plans are prepared in accordance with AASHTO and LADOTD guidelines. Roadway tasks include final roadway placement between I-10 and LA 44 and cross-drain placement along the I-10 on- and off-ramps.		
09/20-Present	US 380, Farmersville, Texas Roadway engineer responsible for creating horizontal alignments and vertical profiles for alternative conceptual designs to alleviate traffic from the existing US 380. Developing 3D models to ensure adequate vertical clearance between existing cross streets and the proposed roadway.		
12/19-09/20	I-30 East Corridor, Dallas, Texas Roadway engineer responsible for designing horizontal alignments and vertical profiles for ramps between main lanes, frontage roads, and cross-streets and assisted in designing superelevation sections and retaining walls. Utilized AutoTURN to check the roadway geometry of cross streets for truck traffic. This project consisted of a major reconstruction of the depressed main lanes and widening side streets for bike lanes.		





16. Staff Experience:

Firm employed by: HNTB Corporation

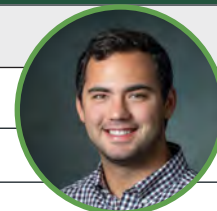
Name	Mira Para, PE	Years of relevant experience with this employer	6
Title	Senior Project Manager	Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization		BS / 1992 / Civil Engineering	
Active registration number / state / expiration date		PE: #34990 / LA / 03-31-2027; #148242 / TX / 07-31-2027; #2002024483 / MO / 12-31-2026; #14417 / KS / 04-30-2027	
Year registered	LA 2009, TX 2023, MO 2002, KS 1997	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Hydraulic Analysis & Design)	
Mira is a project manager with over 33 years of experience in water, wastewater and storm drainage analysis and design, project management, and construction administration. He is a member of American Public Works Association (APWA), Water Environment Federation, Louisiana Water Environment Association (LWEA), and Society of American Military Engineers. He has served as President of the APWA Baton Rouge Branch Executive Board, President of the APWA Louisiana Chapter Executive Board, Secretary of the LWEA Collections Systems Committee and as a member of the national APWA Water Resources Management Committee. His positive reputation for creating high-quality designs complements his continued track record of project completion on schedule and within budget.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/19-Present	Retainer Contract for Design-Build and Other Alternative Delivery Support Services, Task Order #4, I-10/Loyola Interchange Improvement, New Orleans, Louisiana Engineer responsible for independent technical review of the drainage design on this alternative delivery project. This design-build project is providing a new interchange to allow direct access from I-10 to the new airport terminal at Louis Armstrong New Orleans International Airport located near Loyola Boulevard. A design-build team was selected in mid-2019 and construction began in early 2020.		
06/23-Present	Off-System Bridge Program - Task 2, East Baton Rouge Parish, Louisiana Senior engineer responsible for bridge hydrology and hydraulics and bridge scour analysis, preparation of bridge hydraulic report, and hydraulic design for final plans for the replacement of 10 bridges in East Baton Rouge Parish.		
11/23-03/25	Morgantown Industrial Park Access Road, Morgantown, West Virginia Task lead responsible for storm drainage system and detention basin design for roadway plans for the Morgantown Industrial Park. He was also responsible for bridge hydrology and hydraulics, design of bridge scour countermeasures, and a FEMA Conditional Letter of Map Revision for a major bridge over the Monongahela River in northern West Virginia.		
05/23-07/24	Alternative Delivery GEC WA4, I-10 White Oak Bayou, Houston, Texas Task lead responsible utility relocation design and utility deconfliction for final design plans and specifications for Inner Katy Corridor I-10 White Oak Bayou from Studemont Street to Houston Avenue. Design included relocation of a 16" water main and installation in steel casing pipe installed by jack-and-bore under the westbound ramp to I-10 at Taylor Street.		



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Kyle Babin, PE	Years of relevant experience with this employer	5
Title	Project Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2021 / Civil Engineering	
Active registration number / state / expiration date		PE: #50290 / LA / 09-30-2027	
Year registered	LA 2025	Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Hydraulic Analysis and Design)	
Kyle serves as an engineer in HNTB's New Orleans office as a member of the Civil Works department focusing on stormwater and flood protection projects. He is strong in HECRAS 2D modeling software to develop watershed models depicting stormwater runoff and watershed behavior. He is also proficient in GeoHECRAS, HEC-FIA, ArcGIS, HEC-SSP, and Excel.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/25-Present	IDIQ Contract for Engineering and Technical Support Services for Critical Projects, Statewide, Louisiana Responsible for reviewing H&H reports, plans, and ensuring compliance with state and local engineering standards. The bridge bundle program consists of a \$100.1 million effort to replace or rehabilitate 62 aging bridges across the state. Of the 62 bridges being replaced, 41 are federal aid eligible and will be transferred to LADOTD ownership following their construction.		
11/23-03/25	Off-System Bridge Replacement Program, Statewide, Louisiana Modeled 13 off-system bridges utilizing HECRAS 1D modeling software and completed H&H reports for each bridge. H&H reports included background and history, H&H data collection and calculations, as well as proposed recommendations.		
11/22-Present	Ascension Parish Drainage Program, Ascension Parish, Louisiana H&H engineer involved with grant management and grant writing. Experience writing grant applications for HMGP, LWI, and BRIC which included modeling proposed projects and performing benefit-cost analyses to meet criteria of prospective grants. Additionally, he helped manage current grants on behalf of the Parish.		
06/21-01/23	Ascension Parish Floodplain Management Plan (FMP), Ascension Parish, Louisiana H&H modeler who built three watershed models covering most Ascension Parish. This included modeling stormwater runoff for an array of events and analyzing the results from these models to develop projects to mitigate flooding and reduce risk. Assisted with running benefit-cost analysis of projects with project write-ups, developing the FMP and writing the FMP report.		
08/21-04/23	Mississippi River Safety Program, Multiple Locations, Mississippi Performed walking inspections of over 200 miles of embankment levee/floodwalls/floodgates. This consisted of identifying, photographing and documenting any depressions, seepage, slides, burrows, missing sod cover, etc.		
09/23-04/24	Morgantown Industrial Park Access, Morgantown, West Virginia Assisted in the drainage design for the Morgantown Industrial Park Access bridge. Design components included bridge runoff, detention pond, ditch, culvert, and storm sewer system.		



16. Staff Experience:

Firm employed by: HNTB Corporation

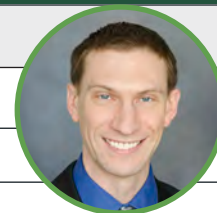
Name	Darby Cressy, PE		Years of relevant experience with this employer	6
Title	Project Engineer		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2019 / Civil Engineering		
Active registration number / state / expiration date		PE: #49729 / LA / 09-30-2027		
Year registered	LA 2025		Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Hydraulic Analysis and Design)		
Darby has more than six years of experience and supports design projects with tasks such as H&H modeling support, grant and program management, QC and reviews, technical report writing support, data collection review, and field inspections. She currently serves as an extension of East Baton Rouge Parish staff as lead of drainage grant and program management services. These responsibilities include review of all consultant submittals as well as coordination with FEMA, OCD, and Parish staff. Darby's modeling capabilities include working with PCSWMM and EPA SWMM for hydrologic network connections at the neighborhood level. She has experience at the watershed level with HEC-RAS. Darby is also experienced in GIS for results analysis, and processing spatial information sets.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/20-Present	East Baton Rouge Parish, Stormwater Master Plan Phase 2 and Implementation, East Baton Rouge Parish, Louisiana Engineer who aided in the development of a Parish-wide stormwater master plan study and 20-year stormwater CIP. Phase 2 included collection of channel survey and enclosed system data, detailed modeling and analysis to reduce flooding of insurable structures, and development of projects and funding sources for flood mitigation. Coordinated with team of experts to develop preliminary models. PCSWMM existing and proposed model development. Provided data collection support. Assisted in technical writing for H&H reports and public engagement events. Implementation includes off-site drainage assessments in line with the updated Unified Development Codes related to drainage for East Baton Rouge Parish, updates to H&H models developed for the Parish, and ongoing public outreach and assistance. Performed HEC-RAS analysis to ensure no proposed development results in negative impacts to surrounding areas. Responded to numerous public concerns related to Parish wide flooding, aiding in the identification and modeling of numerous potential flood mitigation solutions and has acted as lead related to HEC-RAS and PCSWMM model updates.			
06/20-11/20	Louisiana OCD, LWI Grant Applications, Ascension Parish, Louisiana Engineer responsible for the application development of three flood mitigation projects that were submitted to Round 1 of Louisiana's Community Block Grant Recovery CDBG-MIT for the LWI. This effort included developing conceptual level project designs; preparing maps and exhibits; schedules and cost estimates; performing benefit cost analysis utilizing the FEMA benefit cost analysis tool; and organizing an application for submittal.			
06/20-11/20	Louisiana OCD, LWI Grant Applications, East Baton Rouge Parish, Louisiana Engineer responsible for the application development of five flood mitigation projects that were submitted to Round 1 of Louisiana's Community Block Grant Recovery CDBG-MIT for the LWI. Of the five applications submitted, four were awarded to East Baton Rouge Parish. This effort included developing conceptual level project designs; preparing maps and exhibits; schedules and cost estimates; performing benefit cost analysis utilizing the FEMA BCA analysis tool; and organizing a combined application for submittal.			



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Joe Blasi, PE, PTOE	Years of relevant experience with this employer	21
Title	Senior Technical Advisor - Engineering	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 2004 / Civil Engineering; BS / 2004 / Civil Engineering	
Active registration number / state / expiration date		PE: #0045149 / LA / 03-31-2027, #17285 / AR / 12-31-2027, #P22765 / IA / 12-31-2026, #200901890 / MO / 12-31-2027, #129234 / TX / 12-31-2026, PTOE: #3268 / N/A / 05-02-2027 LADOTD Traffic Engineering Analysis Process and Report Module 1, 2, and 3	
Year registered	LA 2020, AR 2016, IA 2015, MO 2009, TX 2018; PTOE 2012	Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Traffic Services)	
Joe is a senior transportation technical advisor with over 20 years of experience supporting maintenance of traffic, work zone analysis, and construction phasing for complex bridge projects. His expertise includes TMP development, traffic modeling, and construction support to maintain safe and efficient traffic operations during bridge rehabilitation.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/21-Present	Plank-Nicholson BRT, East Baton Rouge, Louisiana Task lead responsible for development of VISSIM model used to analyze the effects of installing Bus Rapid Transit along a ten-mile corridor through downtown Baton Rouge. This project includes the use of VISTRO and VISUM as well to develop the existing and future scenarios for analysis in VISSIM.		
05/19-07/23	I-10 Calcasieu River Bridge EIS, Lake Charles, Louisiana Technical advisor for the bridge replacement study of approximately nine miles and included many complex issues in an urban setting such as the navigable Calcasieu River, numerous petro-chemical plants, a high-volume railroad and numerous businesses immediately adjacent to the corridor. A VISSIM model was used to analyze various future alternatives.		
12/21-10/22	I-20 TMP for Orange Street Overpass Repair, Monroe, Louisiana Technical advisor and reviewer for a LADOTD Level 4 TMP developed for a closure of I-20 through downtown Monroe, LA. The TMP detailed the nighttime closure of I-20 under the Orange Street Overpass for emergency repairs and the use of Texas Avenue, Millhaven Road, and Garrett Road as an alternate route.		
11/20-07/22	Bridges and Structures Bureau Statewide On-Call, Statewide, Iowa Traffic engineer who developed temporary traffic signal timing plans for several bridge construction projects where a reversible lane was required on the bridge to keep it open to traffic. HNTB was tasked with completing 44 bridge overlay projects across the state of Iowa.		
05/15-11/17	I-80/I-380 TMP/TIM Plan Update, Coralville and Iowa City, Iowa Traffic analysis lead for development and implementation of identified traffic management actions during construction of the I-80/I-380 system interchange. Major responsibilities included traffic analysis in VISSIM of preliminary design plans and staging to support a constructability and MOT review. Also developed and analyzed other solutions and strategies to mitigate construction impacts, such as alternate routes and signal system upgrades. Developed performance measures and a data collection plan to monitor network performance.		
06/09-01/10	Essen Lane Traffic Signal Upgrade, Baton Rouge, Louisiana Traffic engineer who assisted in the development of traffic signal timing plans along the Essen Lane corridor in Baton Rouge. He assisted in development of signal timing and phasing plans for the AM, noon and PM peak hours. Signal timings were optimized using Synchro and SimTraffic software.		



16. Staff Experience:

Firm employed by: Vectura Consulting Services, LLC

Name	Brin Ferlito, PE, PTOE	Years of relevant experience with this employer	10
Title	Principal	Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization	BS / 1988 / Civil Engineering		
Active registration number / state / expiration date	PE: #25383 / LA / 09-30-2027; PTOE: #932 / 09-09-2027 LADOTD Traffic Engineering Analysis Process and Report Module 1, 2, and 3		
Year registered	LA 1993	Discipline	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Traffic Services)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/21-Present	EBR Computerized Traffic Signal, Phase VB, Baton Rouge, Louisiana Task leader for Vectura for the CE&I of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.		
07/19-Present	MOVEBR New Capacity Projects Program Management, Baton Rouge, Louisiana Lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of LADOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.		
07/19-Present	Belle Chasse Bridge & Tunnel Replacement P3, Belle Chasse, Louisiana Project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by LADOTD.		
09/20-12/21	LA 30 Roundabouts at Tanger I-10, Ascension Parish, Louisiana Project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, Louisiana. The project involves replacing three existing signalized intersections with multi-lane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.		
02/20 - 06/25	I-20: LA 544 Overpass Replacement, Ruston, Louisiana Project manager for a Level 2 Transportation Management Plan (TMP) for a new four-lane bridge over I-20 and three, two-lane roundabouts along LA 544. Brin also developed temporary traffic signal plans with multiple setup configurations for the construction of the roundabouts.		
07/18-04/19	LA 1 Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Design, West Baton Rouge Parish, Addis, Louisiana Developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis. The study was based on LADOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on LADOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, LADOTD pay items, estimated quantities, and construction cost. He also assisted with the Parish with the LADOTD Permit Request for Intersection Control Devices on a State Right-of-Way.		



16. Staff Experience:	
09/17-04/18	US 11 at US 190 Bus. (Fremaux Avenue) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, Louisiana Developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on LADOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
02/17-10/17	Judge Tanner Boulevard at N. Causeway Roundabout Study, St. Tammany Parish, Louisiana Brin developed the safety analyses for a Stage 0 Study for 4 intersections in the Mandeville area. The study was based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Brin assisted collecting 7-day, 24-hour counts w/ Classification, turning movement counts for peak periods and speed data for mainlines. She developed signal timing in the PTV Vistro software. The signal timings were then used in Sidra to complete the HCM analyses. Brin provided a quality control review of the traffic report.
08/15-05/17	Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission), Rockville, Maryland Conducted an applied research study of US Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over eight hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14-12/14	Signal Design for N Sherwood Forest Drive Widening Project, Baton Rouge, Louisiana Project engineer responsible for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and LADOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	CE&I for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, Louisiana Project resident engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as all items on the EBR project closeout checklist.
07/08-09/09	CE&I for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, Louisiana Project resident engineer for LADOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for LADOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the LADOTD Project Closeout Checklist including the 2059 Report.
09/13-04/14	Jefferson Highway Signal Design, Baton Rouge, Louisiana Designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.

16. Staff Experience:

Firm employed by: Vectura Consulting Services, LLC



Name	Laurence Lambert, II, PE, PTOE, PTP	Years of relevant experience with this employer	10
Title	Principal	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization	MBA / 2010; MS / 2006 / Civil Engineering; BS / 1997 / Civil Engineering (Transportation focus)		
Active registration number / state / expiration date	PE: #29901 / LA / 03-31-2028; PTOE: #1303 / 02-03-2028; PTP: # 538/ 11-18-2027 LADOTD Traffic Engineering Analysis Process and Report Module 1, 2, and 3		
Year registered	LA 2001	Discipline	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Traffic Services)		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/23-08/24	South Range Road Operations Study Stage 0 Feasibility Study, Tangipahoa Parish, Louisiana Principal-in-Charge for a Stage 0 for the Regional Planning Commission (RPC) to evaluate operating conditions of the S. Range Road corridor that included the intersection with Old Covington Highway. The corridor study included traffic data collection, pedestrian / bicycle counts, safety analysis, existing conditions analysis and alternative analysis. The results were summarized in a Stage 0 report.		
07/23-11/23	Crescent City Connection (CCC) Decorative Lighting Level 4 Traffic Management Plan (TMP), New Orleans, Louisiana Project manager for a Level 4 TMP for the CCC. Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by LADOTD.		
04/23-10/23	I-12 US 61 Bridges Girder Repairs, Baton Rouge, Louisiana Project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by LADOTD.		
04/18-12/21	LA 30 Roundabouts at Tanger and I-10 Gonzales, Ascension, Louisiana Quality control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30 percent and 60 percent plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.		
04/18-12/21	4 Roundabout US 171 at Boone Street, Vernon Parish, Louisiana Quality control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30 percent and 60 percent plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.		
02/20-09/21	College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, Louisiana Project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from LADOTD was required. Vectura collected, turning movement counts, 85 percent speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.		

16. Staff Experience:	
01/23-02/24	Alexandria ITS Phase 2, Louisiana Project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
07/19 - current	MOVEBR New Capacity Projects Program Management, Baton Rouge, Louisiana At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also developed specifications of Rectangular Rapid Flashing Beacons (RRFB) for the City of Baton Rouge.
10/21-03/22	I-10 ITS Scott to Lake Charles, Southwest Louisiana Lead traffic engineer for a Level 2 TMP for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies
09/18-02/19	I-110 ITS Deployment Systems Engineering Analysis, Louisiana Task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy CCTV cameras and one dynamic message sign along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
06/12-12/12	Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana Project manager who conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included LADOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
09/16-04/17	I-12 To Bush - LA 3241 (I-12 - LA 36) Corridor Study, St. Tammany Parish, Louisiana Lead traffic engineer for a LADOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with SOPs typically performed in these types of analyses. He 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 LADOTD policies related to access management. He collected seven-day, 24-hour counts with classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. He also developed a VISSIM traffic simulation model of the preferred alternative.
04/11-09/11	US 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan, Iberia Parish, Louisiana Lead traffic engineer for one of the first design-build projects undertaken by LADOTD, 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. He 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 traveled corridor crucial for agricultural goods and farming.

16. Staff Experience:			
Firm employed by: Vectura Consulting Services, LLC			
Name	Reece Rodrigue, PE, PTOE, RSP	Years of relevant experience with this employer	5
Title	Traffic Engineer	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2013 / Civil Engineering	
Active registration number / state / expiration date		PE: #42074 / LA / 03-31-2028; PTOE: #4508 / 07-17-2028; RSP: #1013 / 03-20-2029 LADOTD Traffic Engineering Analysis Process and Report Module 1, 2, and 3 ATSSA National Flagger	
Year registered	LA 2017	Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Traffic Services)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/21-Present	Direct Select for Traffic Signal Design, Baton Rouge, Louisiana Project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.		
06/23-Present	Connected & Autonomous Vehicles (C/AV) Team and Working Group Support, Louisiana Member of the team to develop new policies and legislation related to C/AV.		
06/23-Present	Monroe Phase 3 SEA, Louisiana Visited the site to document controller type and detection needs at signalized intersection in the ROW.		
07/21-Present	Computerized Traffic Signal, Phase VB, Baton Rouge, Louisiana Part of the team responsible for CE&I. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.		
01/23-02/24	Alexandria ITS Phase 2, Louisiana Project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.		
06/22-02/23	ITS FMS Data Collection, Louisiana Performed field observations for 40 sites to verify ITS FMS and inventory services.		
04/20-Present	Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Belle Chasse, Louisiana Responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the 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 LADOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the TMP that was also used in planning for the permanent and temporary signal timing plans. Reece was also 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. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.		
11/21-12/21	Emergency Street Light and Traffic Sign Assessment, New Orleans, Louisiana Inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment was approximately 2.5 miles by 2 miles in area.		



16. Staff Experience:	
1/21-05/21	I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, Louisiana Member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.
09/20-12/21	LA 30 Roundabouts at Tanger I-10, Ascension Parish, Louisiana Design engineer who is assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30, consisting of eight proposed construction phases. Assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20-12/21	4 Roundabout US 171 at Boone Street, Vernon Parish, Louisiana Essential design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone Street. Conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
11/21-12/21	Emergency Street Light and Traffic Sign Assessment, New Orleans, Louisiana In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area in the City of New Orleans.
2/20-09/21	College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, Louisiana Task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian/bicycle counts, and weaving counts.
07/19-12/19	Burgess Avenue at Duff Road Traffic Signal Design, Walker, Louisiana Responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, Louisiana. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16-12/16	US 190 Superstreet Task Order, St. Tammany, Louisiana Team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. Aided in the technical design of each intersection. Conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. 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, Louisiana Design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Highway). The goal of the design was to implement updated pedestrian timings as well as optimize progression through US 90. 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. 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 LADOTD's latest version of the TSI format. Responsible for estimating construction quantities using DOTD's 2016 Spec Item list.
10/16-05/17	Loyola Interchange Modification Request, Kenner, Louisiana Team member in the production of an Interchange Modification Report for the I-10 at Loyola Interchange. Collected vehicle travel time data and processed the data, as well as collected vehicle queues at the study intersections. Assisted in the Vissim model calibration.
02/15-12/15	Retainer Contract for District 02 Traffic Signal Inventories - Nola 3, Louisiana Lead engineer in the production of the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad Street) corridor. Reviewed vehicle crash data at all intersections in the study scope. Conducted travel time runs and created a model with existing traffic signal timing information using Synchro 8 Software. Recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection. Used MicroStation V8i when designing traffic signal plans in LADOTD's TSI format.

16. Staff Experience:			
Firm employed by: Vectura Consulting Services, LLC			
Name	Kristen Gahagan Farrington, PE, PTOE, RSP	Years of relevant experience with this employer	4
Title	Engineer	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2014 / Civil Engineering	
Active registration number / state / expiration date		PE: #42785 / LA / 03-31-2027; PTOE: #4863 / 03-26-2029; RSP: #916 / 11-23-2028 LADOTD Traffic Engineering Analysis Process and Report Module 1, 2, and 3 ATSSA Louisiana Traffic Control Supervisor - LA State Specific ATSSA National Flagger	
Year registered	LA 2018	Discipline	Civil
Contract role(s) / brief description of responsibilities		Road Design & Traffic Services (Traffic Services)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/23-Present	South Range Road Stage 0, Tangipahoa Parish, Louisiana Project manager for a Stage 0 project to improve operations on South Range Road. The project included data collection, existing conditions analysis, safety analysis, and alternatives development.		
04/21 - Present	MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, Louisiana Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.		
05/23-05/24	US 190B/Fremaux Ave Sidewalk Feasibility Study, Slidell, Louisiana As a subconsultant to Richard C. Lambert Consultants, LLC, project manager for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and final report.		
04/22-11/23	Capital Area Pathways Project, Baton Rouge, Louisiana Lead designer for four pedestrian hybrid beacons (PHB's) with two crossings located on state routes. The locations were approved in a previous study and are now under design for construction. Kristen is working closely with the City and LADOTD on the construction plan development as PHB's are a new traffic control device for LADOTD. Prior to the design of the PHB's, Kristen prepared a traffic study evaluating all six uncontrolled crosswalks along the path, which included data collection and determining the appropriate treatment for each crossing location based on FHWA, LADOTD, and MUTCD guidance.		
09/17-09/18	LA 73 Corridor Study Stage 0 (LA 74 to LA 621), Ascension Parish, Louisiana Designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.		
04/18-04/19	I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, Louisiana Project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the DOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps.		



16. Staff Experience:	
04/19-06/21	A 117 Improvements Stage 0, Vernon and Natchitoches Parishes, Louisiana Project engineer responsible for a Stage 0 study for 18 miles of two-lane highway. 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.
03/19-11/19	LA 429 Connector Stage 0, Ascension Parish, Louisiana Task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18-03/21	LA 3040 Feasibility/Safety Study Stage 0, Houma, Louisiana Project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to LADOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18-04/19	I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, Louisiana Project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17-09/18	LA 73 Corridor Study Stage 0 LA 74 to LA 621, Ascension Parish, Louisiana Designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16-07/17	Cane River Bridge Church Street Route LA 1-X Environmental Assessment, Louisiana Project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement.

16. Staff Experience:

Firm employed by: Forte and Tablada, Inc.

Name	Bradley Holleman, PLS, PE 10		Years of relevant experience with this employer	4
Title	Senior Vice President / Survey/Advanced Measurements and Modeling		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		BSCE /2009 / Civil Engineering		
Active registration number / state / expiration date		PLS: #5082 / LA / 09-30-2026 PE: #47165 / LA / 03-31-2027 ATSSA Louisiana Traffic Control Supervisor - LA State Specific		
Year registered	PLS: LA 2012 PE: LA 2022	Discipline	Land Surveying	
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Topographic Surveying), MPR 10		
Brad has 14 years of experience of managing field crews and office work on on-system LADOTD topographic surveys, boundary surveys and ROW mapping with nine years being the supervising professional and three years as principal. He has managed over 130 task orders under five separate topographic and ROW mapping IDIQ contracts with LADOTD.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
12/21-Present	LADOTD IDIQ Contract for Professional Surveying Services, Statewide, Louisiana Surveyor-in-Charge performing topographic surveys for LADOTD. To date, this IDIQ contract has included a total of nine separate task orders for seven State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topographic survey, hydrographic survey, terrestrial and mobile LiDAR survey, and producing existing drainage maps.			
08/23-Present	IIJA Off-System Bridge Program, 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, Louisiana Principal-in-charge for topographic surveying and ROW mapping services for 13 bridge sites on two-lane roadways.			
06/21-Present	Rural Bridge Replacement Initiative Phase II, 5 State Project Numbers (20 Bridge Sites), Statewide, Louisiana Principal-in-charge for topographic surveying and ROW mapping services for 20 bridge sites on two-lane rural roadways for LADOTD.			
09/21-Present	IDIQ Contract for Professional Surveying Services, Statewide, Louisiana Principal-in-charge for property surveys, establishing existing ROW, ROW maps, and title take-offs for LADOTD.			
01/21-Present	I-49 Connector, Lafayette Parish, Louisiana Principal-in-charge responsible for providing topographic and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5-miles.			
08/19-Present	I-10/Loyola Interchange Improvements, Kenner, Louisiana Surveyor-in-charge/principal-in-charge providing topographic survey, right-of-way survey, drainage survey, and ROW monument mapping. The project stretches along I-10, from the levee in Kenner to the Williams Boulevard off ramp, as well as Loyola Avenue and portions of Veterans Boulevard for approximately 3.2 miles of roadway. Due to the compressed timeline of the survey, a total of three survey firms were contracted to split up the workload, with F&T serving as prime surveyor, being responsible for management and QA/QC of all survey work. Originally managed SJB Group's portion of the survey and is now serving as principal-in-charge for any ongoing or new work F&T is tasked with.			



16. Staff Experience:	
01/22-12/22	Calcasieu River Bridge (HBI), Calcasieu Parish, Louisiana Principal-in-charge for this project providing topographic survey, mobile and terrestrial LiDAR, multibeam hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This survey included four phases of work, which were completed within a condensed timeline, requiring up to six Survey Crews being mobilized in order to meet deadlines for each phase.
01/21-03/22	Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites), Statewide, Louisiana Principal-in-charge for topographic surveying and ROW mapping services for 22 bridge sites on two-lane rural roadways.
01/18-04/20	I-10 LA 415 to Essen Lane, East Baton Rouge Parish, Louisiana Surveyor-in-charge for the topographic survey and 3D mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. This survey was part of a larger project that extended West to LA 415 and included a team of four survey firms to complete the work on schedule.
05/18-04/19	I-10 Paris Road Lake Pontchartrain, New Orleans, Louisiana Surveyor-in-charge for the topographic survey, 3D mobile laser scanning and existing drainage map. This project was for the design of I-10 improvements of an 8-mile stretch in New Orleans East.
06/17-06/22	Retainer Contract for Professional Surveying Services, Statewide, Louisiana Principal-in-charge performing topographic surveys for LADOTD. This retainer contract included a total of 18 separate task orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topographic survey, hydrographic survey, terrestrial and mobile LiDAR survey, and producing existing drainage maps.
06/16-02/17	Chef Menteur Pass Bridge, New Orleans, Louisiana Surveyor-in-charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all buildings that fall within the survey limits.
09/14-02/15	LA 3139, New Orleans, Louisiana Surveyor-in-charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement span because of a damaged girder on the LA 3139 overpass over I-10. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
12/14-03/16	LA 21 to LA 59, St. Tammany Parish, Louisiana Surveyor-in-charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
09/13-03/14	Amite River Bridge Near French Settlement, French Settlement, Louisiana Surveyor-in-charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a new bridge over Amite River in French Settlement Louisiana to the replace the existing swing bridge. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
07/13-10/13	I-12 to Bush Route La 3241 Survey Control, Bush, Louisiana Surveyor-in-charge for setting the primary static control and digital levels for future phases of the project. This project was for the construction of a new connecting route from I-12 to Bush Louisiana. The work consisted of setting deep rod monuments along the proposed route and conducting over 40 miles of digital levels between the deep rod monuments.
01/13-09/13	Jefferson Highway Overpass, East Baton Rouge Parish, Louisiana Surveyor-in-charge for the bridge monitor survey, topographic survey and existing drainage map. This project was monitoring and the overpass replacement of Jefferson Highway over Airline Highway in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.

16. Staff Experience:

Firm employed by: Forte and Tablada, Inc.

Name	Ross Wilson, PLS		Years of relevant experience with this employer	14
Title	Senior Professional Land Surveyor		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS / 2010 / Geomatics		
Active registration number / state / expiration date		PLS: #5148 / LA / 03-31-2028 ATSSA Louisiana Traffic Control Supervisor - LA State Specific HYPACK General and Multibeam Certification Examinations		
Year registered	LA 2015		Discipline	Land Surveying
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Topographic Surveying)		
Ross has 16 years of experience of managing field crews and office work for on-system LADOTD topographic surveys, with over nine years being the professional SIC on these projects. He has managed over 40 task orders under five separate topographic and ROW IDIQ contracts with LADOTD, as well as over 105 bridge surveys throughout Louisiana.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23-Present	IIJA Off-System Bridge Program, 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, Louisiana Surveyor-in-charge for topographic surveying and ROW mapping services for 13 bridge sites on two-lane roadways.			
12/21-Present	LADOTD IDIQ Contract for Professional Surveying Services, Statewide, Louisiana Surveyor-in-charge performing topographic surveys for LADOTD. This contract showcases his familiarity with the process of managing LADOTD Survey IDIQ task orders from beginning to end. To date, this IDIQ contract has included a total of nine separate task orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topographic survey, hydrographic survey, terrestrial and mobile LiDAR survey, and producing existing drainage maps.			
06/21-Present	Rural Bridge Replacement Initiative Phase II, 5 State Project Numbers (20 Bridge Sites), Statewide, Louisiana Surveyor-in-charge for topographic surveying and ROW mapping services for 20 bridge sites on two-lane rural roadways.			
08/19-Present	I-10/Loyola Interchange Improvements, Kenner, Louisiana Surveyor-in-charge providing topographic survey, ROW survey, drainage survey, and ROW monument mapping. The project stretches along I-10, from the levee in Kenner to the Williams Boulevard off-ramp, as well as Loyola Avenue and portions of Veterans Boulevard for approximately 3.2 miles of roadway. The survey was part of a design-build project, which required weekly data updates, to allow the design team to begin working and stay on schedule.			
08/15-Present	I-49 Connector, Lafayette Parish, Louisiana Survey manager/surveyor-in-charge responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada was able to mobilize up to four survey crews on this project, in order to meet phased deadlines. This project demonstrates his ability to fulfill the minimum personnel requirement of having over five years of experience in conducting topographic surveys.			
05/21-12/22	Calcasieu River Bridge (HBI), Calcasieu Parish, Louisiana Surveyor-in-charge for this project providing topographic survey, mobile and terrestrial LiDAR, multibeam hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This survey included four phases of work, which were completed within a condensed timeline, requiring up to six survey crews being mobilized in order to meet deadlines for each phase.			



16. Staff Experience:	
06/17-06/22	Retainer Contract for Professional Surveying Services, Statewide, Louisiana Surveyor-in-charge performing topographic surveys for LADOTD. This contract showcases his familiarity with the process of managing LADOTD Survey IDIQ task orders from beginning to end. This retainer contract included a total of 18 separate task orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topographic survey, hydrographic survey, terrestrial and mobile LiDAR survey, and producing existing drainage maps.
06/20-03/22	Rural Bridge Replacement Initiative Phase I, 7 State Project Numbers (22 Bridge Sites), Statewide, Louisiana Surveyor-in-charge for topographic surveying and ROW mapping services for 22 bridge sites on two-lane rural roadways.
01/20-10/20	Atchafalaya Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415, West Baton Rouge and Iberville Parishes, Louisiana Surveyor-in-charge for complete topographic survey and Mobile LiDAR of approximately 18.3 miles along I-10, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.
12/16-12/19	Retainer Contract for Professional Surveying Services, Statewide, Louisiana Surveyor performing topographic surveys for LADOTD. This contract showcases his familiarity with the process of managing LADOTD Survey IDIQ task orders from beginning to end. This retainer contract included a total of five separate task orders for three state highway projects. Survey tasks included conventional topographic survey, hydrographic survey, LiDAR survey, and producing existing drainage maps.
01/18-06/19	I-10 LA 415 to Essen Lane to I-10 and I-12, East and West Baton Rouge Parishes, Louisiana Survey manager for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane. Project required Forte and Tablada to mobilize up to five survey crews to meet phased deadlines.
10/18-02/19	Sunshine Bridge Repair, St. James Parish, Louisiana Surveyor-in-charge responsible for establishing survey control on and near the Sunshine Bridge to use conventional and terrestrial LiDAR scanning methods to monitor the damage on the bridge. This project showcases Forte and Tablada's capability of quick response to an emergency task order.
05/17-10/18	Belle Chasse Bridge and Tunnel (HBI), Plaquemines Parish, Louisiana Surveyor-in-charge for comprehensive topographic surveying and drainage mapping for the Belle Chase Bridge and Tunnel Replacement project for LADOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway, bridge and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and exterior features of the existing tunnel.
03/13-07/15	Almonaster Avenue Lift Bridge, Orleans Parish, Louisiana Survey manager responsible for performing topographic and property surveys, developing a drainage map, establishing existing ROW for the north line of I-10, Almonaster Avenue, and CSX Railroad property, and terrestrial LiDAR scanning all bridge features.

16. Staff Experience:			
Firm employed by: Forte and Tablada, Inc.			
Name	Rachel Waldroup, PLS	Years of relevant experience with this employer	10
Title	Senior Professional Land Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2020 / Environmental Science; AAS / 2015 / Civil Surveying and Mapping	
Active registration number / state / expiration date		PLS: #5277 / LA / 09-30-2026	
Year registered	LA 2022	Discipline	Land Surveying
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Topographic Surveying)	
Rachel brings over six years of experience working on on-system LADOTD topographic and right-of-way (ROW) surveys, with three years being a PLS on these projects. She has worked on over 30 on-system LADOTD surveys, including both topographic and ROW work.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/24-Present	IDIQ Contract Professional Surveying Services, Statewide, Louisiana Surveyor performing property surveys, establishing existing ROW, ROW maps and title take-offs for LADOTD. Under this contract, a total of five task orders have been executed.		
08/23-Present	IJA Off-System Bridge Program, 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, Louisiana Surveyor for topographic surveying and ROW mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing ROW location determination and right of way mapping. The condensed timeline of the projects required that multiple crews be mobilized weekly to stay on schedule.		
09/21-Present	IDIQ Contract for Professional Surveying Services, Statewide, Louisiana Survey intern and surveyor performing property surveys, establishing existing ROW, ROW maps and title take-offs for LADOTD. Under this contract, a total of 22 task orders have been executed. This contract showcases her familiarity with the process of managing an LADOTD Survey IDIQ task order from beginning to end.		
06/21-Present	Rural Bridge Replacement Initiative Phase II, 5 State Project Numbers (20 Bridge Sites), Statewide, Louisiana Survey CAD technician and surveyor for topographic surveying and ROW mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing ROW location determination and right of way mapping.		
08/19-Present	I-10/Loyola Interchange Improvements, Kenner, Louisiana Survey CAD technician providing topographic survey, ROW survey, and drainage survey. The project stretches along I-10, from the levee in Kenner to the Williams Boulevard off-ramp, as well as Loyola Avenue and portions of Veterans Boulevard for approximately 3.2 miles of roadway. The survey was part of a design-build project, which required weekly data updates, to allow the design team to begin working and stay on schedule.		
08/15-Present	I-49 Connector, Lafayette Parish, Louisiana Survey CAD technician, survey intern, and PLS responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc was able to mobilize up to four survey crews on this project, in order to meet phased deadlines.		
04/25-07/25	Sidney Leblanc Road over Peebles Coulee, District 03, Louisiana Surveyor for topographic surveying and ROW mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing ROW location determination.		
04/25-06/25	Grover Jones Road over Williams Creek, District 04, Louisiana Surveyor for topographic surveying and ROW mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing ROW location determination.		



16. Staff Experience:	
10/22-12/22	Lafayette Streetscape Survey Congress Street, Lafayette Parish, Louisiana Survey CAD technician providing topographic and property survey to establish existing ROW for approximately a mile of roadway along Congress Street. This survey included mobile LiDAR scanning of all roadway features as a means of obtaining topographic data without endangering surveyors.
05/21-12/22	Calcasieu River Bridge (HBI), Calcasieu Parish, Louisiana Survey CAD technician for this project providing topographic survey, mobile and terrestrial LiDAR, multibeam hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long.
08/20-03/22	Rural Bridge Replacement Initiative Phase I, 7 State Project Numbers (22 Bridge Sites), Statewide, Louisiana Survey CAD technician for topographic surveying and ROW mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing ROW location determination and ROW mapping.
01/18-06/19	I-10 LA 415 to Essen Lane to I-10 and I-12, East and West Baton Rouge Parishes, Louisiana Survey CAD technician for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane.
03/15-08/15	Livingston Drainage Improvements Bridge Replacements, Livingston Parish, Louisiana Survey CAD technician for surveys of George Mashon and Travis Street for the topographic survey and ROW mapping. The purpose of the project was to determine the feasibility of replacing bridges with culverts within the Parish.

16. Staff Experience:

Firm employed by: Forte and Tablada, Inc.

Name	Trent Iglehart		Years of relevant experience with this employer	2
Title	Senior CAD Technician		Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		FAA Pilot: #4227009 / N/A / 07-14-2027		
Year registered	2019		Discipline	FAA Certified Remote Pilot
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Hydrographic Surveying)		
Trent brings 12 years of experience on on-system LADOTD topographic and ROW surveys, and 27 years of hydrographic survey experience. He has performed CAD and management tasks on over 224 task orders under 22 separate topographic and ROW IDIQ contracts with LADOTD which included 106 bridge surveys.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/24-09/24; 09/24-03/25	Amite River Basin Commission Masterplan and Sediment Removal, Louisiana Hydrographic and topographic task manager for this project consisting of strategic singlebeam hydrographic cross sections over 115 miles of the Amite River and multibeam hydrographic survey of the Amite River Weir for the Master Hydraulic model of the River Basin. Tasks also included the compiling of historic surveys dating back to 1980 for analysis. Hydrographic task manager for the sediment removal consisting of 34 miles of multibeam hydrographic surveys for the Amite River. This survey was performed for the purpose of sediment stacking analysis and locating potential dredge sites.			
03/24-04/24	Highway 47 Over Bayou Bienvenue, Emergency Bridge Replacement, St. Bernard/Orleans Parish, Louisiana Hydrographic task manager to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to conventional topographic survey, hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.			
06/23-08/23	LA 14 Over Delcambre Canal Hydrographic Survey and Underwater Acoustic Imaging, Iberia Parish, Louisiana Technician for area around the LA 14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
07/23-09/23	Three Mile Lake Flood Reduction, Louisiana Senior CAD technician/hydrographic task manager for field data collection and processing for all hydrographic survey data. Field data processing and drafting for topographic surveys. This project consisted of bathymetric cross sections, the survey of the weir and 3D terrestrial laser scans of four bridges surrounding 3 Mile Lake.			
09/22-12/22	LADOTD IDIQ for Hydrographic Survey, Statewide, Louisiana Survey technician for hydrographic survey task orders on the Mississippi River (I-10 at Baton Rouge, Sunshine, Gramercy, Huey Long, and Crescent City Connection), Atchafalaya River (Krotz Springs EB and WB), Pearl River, and Pass Manchac at I-55.			
07/17-07/22	LA 91 Bayou Plaquemine Brule Bridge Replacement, Acadia Parish, Louisiana Senior CAD technician/hydrographic task manager for field data collection and processing for all hydrographic survey data. Field data processing and drafting for topographic surveys. This project consisted of 0.25 miles of roadway/bridge topographic survey and 500 feet upstream and downstream bathymetric cross sections for bridge replacement.			



16. Staff Experience:			
Firm employed by: Gulf South Land Title Resources, LLC			
Name	Roger Cutrer	Years of relevant experience with this employer	23
Title	Owner/Abstractor	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		High School Diploma / 1987	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Title Research and Reporting)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/13-07/14	Green Light Plan Roadway Improvement Projects, East Baton Rouge Parish, Louisiana Abstractor and coordinator for Phase I & Phase II. Created abstract reports and updates for various sites for this roadway widening and traffic light synchronization project.		
06/13-08/14	LA 44 Black Bayou Bridge, District 61, Ascension Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
03/10-08/11	LA 42 Widening and Improvements, Ascension Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
03/13-09/13	US 190 Intersection Improvements at Eden Church Road, Livingston Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
08/12-09/13	LA 327 Bayou Paul Bridge, District 61, Iberville Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		



16. Staff Experience:			
Firm employed by: Gulf South Land Title Resources, LLC			
Name	Drew Gaudet	Years of relevant experience with this employer	23
Title	Owner/Abstractor	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1990 / Business Management	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Surveying & Title Work Services (Title Research and Reporting)	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/13-07/14	Green Light Plan Roadway Improvement Projects, East Baton Rouge Parish, Louisiana Abstractor and coordinator for Phase I & Phase II. Created abstract reports and updates for various sites for this roadway widening and traffic light synchronization project.		
06/13-08/14	LA 44 Black Bayou Bridge, District 61, Ascension Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
03/10-08/11	LA 42 Widening and Improvements, Ascension Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
03/13-09/13	US 190 Intersection Improvements at Eden Church Road, Livingston Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		
08/12-09/13	LA 327 Bayou Paul Bridge, District 61, Iberville Parish, Louisiana Abstractor and coordinator for the Title Search Reports, Phases 1 and 2 of this project.		



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	April English		Years of relevant experience with this employer	13
Title	Planning Senior Project Manager		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		MS / 2007 / Biology; BS / 2000 / Biology		
Active registration number / state / expiration date		N/A		
Year registered	N/A		Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services		
April is a NEPA and environmental compliance specialist. She has experience in supervising and performing a full range of environmental assignments, including preparing environmental documents and biological and cultural permit applications, performing quality reviews for regulatory sufficiency and document readability, and directing extensive agency and public involvement activities. She has supervised and prepared numerous environmental studies including EISs, Supplemental EISs, Environmental Assessments (EAs), Categorical Exclusions (CEs) and Re-Evaluations (REs), as well as NEPA-like planning evaluations such as Planning and Environmental Linkage (PEL) studies.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/13-07/21	I-10 Calcasieu River Bridge (I-10/I-210 West to I-10/I-210 East), Calcasieu Parish, Louisiana Lead environmental planner on the proposed project, which extends along I-10 between the I-210 interchanges, approximately 9 miles. The project includes widening and the replacement or rehabilitation of the National Register of Historic Places eligible Calcasieu River Bridge. The project purpose is to address traffic congestion, safety, roadway/bridge design issues and system continuity. Role includes management of all aspects of the EIS process, including technical expertise for natural, human, and physical environment analyses.			
01/14-01/18	Baton Rouge Loop Tier 1 DEIS and Draft Section 4(f) Evaluation, Ascension, East Baton Rouge, Iberville, Livingston & West Baton Rouge Parishes, Louisiana Lead environmental planner involved in the preparation of the Tier I EIS for the proposed Baton Rouge Loop Toll Facility, which is proposed as a 90- to 105-mile circumferential controlled access free-flow toll roadway around Baton Rouge with two new Mississippi River crossings. Involved in the preparation of the DEIS, Final Environmental Impact Statement (FEIS) and ROD for this corridor-wide analysis. Involvement also included extensive agency coordination and public involvement efforts.			
01/15-01/17	Improvements to Marconi Drive, Martin Luther King, Jr. Boulevard, and Morrison Avenue PCE, New Orleans, Louisiana Environmental project manager for the projects, which include mill and overlay improvements and bike and pedestrian improvements to the referenced streets in the City of New Orleans, Louisiana. Role included preparing four PCE environmental documents. Included conducting natural resources evaluations, as well as physical and human environment determinations. Work also included coordination with LADOTD, Regional Planning Commission and the City of New Orleans Department of Public Works.			
01/22-03/24	SH 225 PEL Study, SH 225 from I-610 to SH 146 and I-610 from Clinton Drive to Broadway Street, Harris County, Texas Senior environmental planner on a PEL study for improvements to SH 225 and I-610 in Houston. SH 225 and I-610 are considered heavy freight corridors. SH 225 is a route used by the Port of Houston to carry goods to Texas and the United States as a whole. The corridor is a critical component to the economic success of the city, state and country. The SH 225 PEL process includes detailed roadway, environmental, traffic, and safety analyses of the corridor, with multiple levels of alternatives screening. Public, agency and stakeholder involvement are an integral part of the SH 225 PEL process. Involved in the constraints mapping and technical report preparation, technical reports such as the Framework and Methodology, and management of the environmental aspects of the project.			

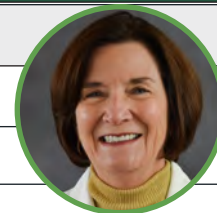




16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Lynn Maloney-Mujica, AICP		Years of relevant experience with this employer	7
Title	Senior Project Manager - Planning		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		MS / 2008 / Environmental Science; BS / 1976 / Liberal Arts		
Active registration number / state / expiration date		AICP: #20555 / National / N/A		
Year registered	LA 2006		Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services		
Lynn is a certified planner whose most recent experience has focused on infrastructure projects. She began her career as a bilingual consultant in Puerto Rico and then later returned to her native Louisiana in 1998 to work as an economic/environmental planner for the Baton Rouge Planning Commission. Her master's thesis, "Comprehensive Planning in Louisiana," won the Martinez Award for outstanding thesis research in the Department of Environmental Sciences at LSU. As a consultant in the private sector for the last 20 years, she has worked for a wide range of city, parish, state, and federal agencies. Her expertise in NEPA analyses and documentation is broadly interdisciplinary and includes public outreach and stakeholder engagement as well as permitting required for these projects.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/18-Present	I-10 Calcasieu River Bridge Improvements EIS, Lake Charles, Louisiana Senior project manager responsible for EIS documentation, alternatives scoping and screening, technical team oversight, preparation and/or review of technical documents, public involvement, interagency coordination, and all other tasks related to completing the NEPA review. After the ROD was issued in January 2024, she has been engaged in a NEPA RE report that included bridge/culvert assessments for bats that are proposed for listing as Threatened by USFWS. She is currently providing oversight of the P3 developers related to NEPA, along with USCG, USACE, SHPO, and other agency permits and approvals.			
10/19-02/20	LA 1, Phase 2, Leeville to Golden Meadow, Louisiana Member of team that prepared an INFRA Grant application for funding to complete the elevation of 8 miles of roadway to protect America's premier oil production and distribution center against severe weather event disruptions. About 20 percent of the US domestic energy production relies on this corridor. This application received \$135 million - the largest such award to date, and about 15 percent of 2020's INFRA Grant funds. Responsible for team coordination, editorial review, and obtaining 50 customized letters of support from local, regional, and national stakeholders.			
09/19-11/19	College Drive Flyover Ramp, Baton Rouge, Louisiana Responsible for coordinating the open house public meeting to provide information and collect comments on a flyover ramp designed to improve traffic flow within the I-10/I-12 westbound interchange. Responsible for developing exhibits, looping presentation, and other meeting materials, addressing comments, and producing the meeting transcript.			
08/24-Present	East Baton Rouge Parish Off-System Bridges, Baton Rouge, Louisiana Environmental lead for NEPA reviews and approvals included Tricolored Bat Bridge assessments and oversight of Section 106 and Section 404 permits.			
09/23-Present	Baton Rouge and Gonzales Train Stations, Baton Rouge, Louisiana Senior project manager for technical studies, public involvement, and agency coordination for two passenger train stations being funded by a RAISE grant. A Section 106 survey report for historic sites and archeological resources has been prepared. The next steps include traffic, noise, air quality, and natural resource analyses followed by stakeholder engagement.			



16. Staff Experience:

Firm employed by: HNTB Corporation

Name	Raegan Ball		Years of relevant experience with this employer	1
Title	Senior Project Manager - Planning		Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization		BS / 2004 / Applied Biological Science		
Active registration number / state / expiration date		N/A		
Year registered	N/A		Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services		
Raegan is a seasoned environmental and transportation professional with over 19 years of experience in NEPA project management, environmental compliance, and interagency coordination. She specializes in the review and preparation of environmental documentation, including evaluations of historical significance under Section 106 of the National Historic Preservation Act. Ms. Ball has completed formal training in Section 106 and has extensive experience reviewing wetland delineations and threatened and endangered species surveys. Her career spans leadership roles in multiple FHWA Divisions, where she has directed environmental reviews for high-profile infrastructure projects and developed programmatic agreements to streamline compliance.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/22-04/25	I-10 Calcasieu River Bridge Project, Lake Charles, Louisiana – As environmental lead and FHWA representative, she has directed environmental coordination for one of Louisiana’s most complex NEPA efforts. She led interagency collaboration through the FEIS and ROD, resolving longstanding issues and achieving critical federal milestones. The project includes widening and the replacement or rehabilitation of the National Register of Historic Places eligible Calcasieu River Bridge.			
11/22-04/25	Louisiana Division - Deputy Division Administrator, Louisiana Served as second-in-command for the FHWA Louisiana Division, overseeing federal compliance for state and local transportation projects. She provides strategic direction on NEPA, permitting, and environmental decision-making, and represents FHWA in negotiations with LADOTD and resource agencies. Her role includes guiding environmental reviews, resolving interagency coordination issues, and ensuring timely delivery of major infrastructure projects such as the I-10 Calcasieu River Bridge.			
12/12-11/22	Missouri Division - Program Development Team Leader, Missouri Led the environmental program for FHWA Missouri Division, managing NEPA compliance for both state and local public agency (LPA) projects. She developed programmatic agreements with MoDOT and SHPO to streamline Section 106 reviews and reduce delays. Her work included mentoring staff, overseeing environmental documentation, and integrating environmental risks into Missouri’s risk-based oversight framework.			
03/10-12/12	Nebraska Division - Environmental Protection Specialist, Nebraska NEPA and environmental compliance lead for FHWA Nebraska Division, supporting NDOT and LPAs. She led the development of programmatic agreements and tools to improve consistency in environmental reviews. Her work included accelerated NEPA clearance for emergency repair projects and coordination of ESA consultations, including a nationally recognized biological matrix.			
10/06-02/10	Arizona Department of Transportation (ADOT) - Environmental Planner, Arizona Managed NEPA documentation for federally funded local government projects. She led environmental reviews for ARRA-funded projects, developed process improvements, and conducted training for local sponsors. Her responsibilities included reviewing wetland delineations, endangered species surveys, and Section 106 documentation, while coordinating with regulatory agencies and supporting public involvement.			



16. Staff Experience:

Firm employed by: ELOS Environmental, LLC

Name	Basile Dardar ¹⁴	Years of relevant experience with this employer	8
Title	Environmental Scientist / Project Manager	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		Biological Sciences	
Active registration number / state / expiration date		ATSSA Louisiana Traffic Control Technician - LA State Specific USACE Wetland Delineation Manual Technical Report	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services; MPR ¹⁴	
Basile's responsibilities at ELOS have included assisting with phase I and phase II cultural resources surveys, mitigation bank monitoring, endangered species monitoring, and performing wetland delineations. He has performed several wetland delineations, which entail conducting field investigations with the purpose of collecting and processing data. Basile has also assisted with mitigation bank monitoring efforts as well as bat surveys, including acoustical surveys of tri-colored bat.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/23-Present	EBR Off System Bridge Program, East Baton Rouge Parish, Louisiana Coordinated with the field team to conduct wetland delineations, complete wetland findings reports, work with the USACE for jurisdictional determinations of wetlands, and assist with USACE permit applications and supporting documentation for 13 bridge replacements.		
09/22-Present	IIJA Off-System Bridges, District 62, Louisiana Coordinated with field teams to assess cultural and environmental impacts. ELOS is providing comprehensive services to replace bridges throughout various parishes in Southeast Louisiana in several phases until completion. Maintained the required data and documentation and reviewed deliverables and reports applicable to SOVs, wetland delineations, and categorical exclusion of the construction activities. Assisted with preparing applicable permits, maps, forms, and supplemental documentation.		
04/22-Present	Tangi Off-System Bridge Prioritization, Tangipahoa Parish, Louisiana Conducted wetland delineations, prepared and submitted permit applications, and led the team in completing the solicitation of views (SOVs) and categorical exclusion (CE) documentation. ELOS is contracted to provide environmental services including wetland delineations, SOVs, CE documents, and permit applications and drawings for six bridges to be replaced in District 62.		
06/22-09/23	Rousseau Bridge Replacement, St. Tammany Parish, Louisiana Conducted a wetland delineation, submitted reports to USACE, coordinated with the field team regarding SOVs and information needed, and reviewed permit drawings. ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, scenic rivers permit application, emergency authorization application to USACE, SOVs, and a final report.		
11/21-Present	Rural Bridges Phases I and II, Statewide, Louisiana Coordinated field crews, performed wetland delineations, collected and input data, written and produced reports, developed timelines, coordinated with LADOTD, worked on permit applications with state and federal agencies, and assisted with the surveys. ELOS has been contracted to provide professional environmental consulting services for replacing bridges in rural areas for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, a cultural resource survey, and a threatened and endangered species survey.		



16. Staff Experience:	
11/21-Present	Move Ascension Phases II and III, Ascension Parish, Louisiana Worked on the wetland findings report for the USACE jurisdictional determination of wetlands, reviewed delineation photographs and maps, and reviewed corresponding figures and data for the permit applications. ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish.
01/22-09/22	Judge Dufresne Parkway Extension, St. Charles Parish, Louisiana Performed the wetland delineation, completed the Phase I ESA and its report, and assisted with the USACE permit application and follow-up. ELOS was contracted to conduct a Wetland Delineation, submit Permit Applications, perform a Phase I ESA, and provide a Section 106 Desktop Review for a 161.5-acre tract of land referred to as Judge Dufresne Parkway Extension located in St. Charles Parish.
06/24-Present	US 190 Roundabouts, St. Tammany Parish, Louisiana Assisted with writing and reviewing the threatened and endangered species report. ELOS has been contracted to perform a wetland delineation, prepare and submit joint permit applications, complete Section 106 reviews, and conduct threatened and endangered species surveys for a 28-acre area for the installation of roundabouts on US 190.
02/23-Present	Minnesota Park/Range Road Roundabout, Tangipahoa Parish, Louisiana Worked on the SOVs, reviewed the CATEX sections and documentation, written permit applications, and coordinated with LADOTD. ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the USACE, submit a permit application, if necessary, as well as assist with a CATEX, Phase I Environmental Site Assessment (ESA), and the SOVs for a roundabout project covering 2.5 acres in Tangipahoa Parish.

16. Staff Experience:

Firm employed by: ELOS Environmental, LLC

Name	Lucas Watkins	Years of relevant experience with this employer	19
Title	Principal / Environmental Scientist	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization	MS / 2005 / Biological Sciences; BS / 2000 / Forest Management		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		
Lucas is the President and founding President of ELOS. His experience includes environmental regulatory compliance and project management. This involves managing large-scale, multi-faceted projects, such as government grant management, complex construction projects, disaster recovery debris removal efforts, and wetland restoration implementation. His key strengths include wetland delineations, wetland permitting, wetland restoration, NEPA compliance, ASTM Phase I ESAs, stormwater management, FERC regulatory overview and guidance, endangered species surveys, and timber and forest management. He has substantial experience in permitting municipal infrastructure, levees, borrow pits, oil and gas exploration, productions, and transmission activities, as well as working on other public and private sector environmental-related issues.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20-Present	Rural Bridges Phases I and II, Statewide, Louisiana Ensures all project phases adhere to federal and state environmental regulations. Facilitates effective communication among LADOTD officials, environmental organizations, and other stakeholders to address concerns and maintain transparency throughout the project. ELOS has been contracted to provide environmental services for LADOTD Rural Bridge Replacement Initiative projects in six districts across the state.		
09/22-Present	IIJA Off-System Bridges, District 62, Louisiana Reviewed the findings reports before sending them to the client. This off-system bridge project involves the replacement of six bridges. ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and writing navigability determination reports		
10/23-Present	EBR Off System Bridge Program, East Baton Rouge Parish, Louisiana Oversees the permit application to ensure a successful process. ELOS is contracted to prepare and submit permit applications to the USACE, to include completing the permit application packet, documenting the rationale for the project, providing a summary of the project, and a detailed verbal description of the project location. ELOS is responsible for generating one site plan for each project and coordinating with USACE for a permit under Section 10/404 of the Clean Water Act.		
08/22-08/24	Rousseau Bridge Replacement, St. Tammany Parish, Louisiana Directed the comprehensive assessment of potential environmental impacts related to transportation infrastructure projects. Ensured the accuracy, completeness, and integrity of environmental reports and documentation submitted to regulatory agencies for review and approval. ELOS was contracted to provide professional environmental for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish.		
02/22-Present	STP Lock No. 3 Replacement, St. Tammany Parish, Louisiana Ensures that all phases of each project comply with all state and federal regulations. ELOS has been contracted to perform wetland delineation, submit joint permit applications, perform a State Historic Preservation Office (SHPO) Section 106 desktop review and Consultation, and perform a US Fish and Wildlife (USFWS) Endangered Species Act (ESA) Biological assessment for the St. Tammany Parish Lock No. 3 Bridge Replacement project.		

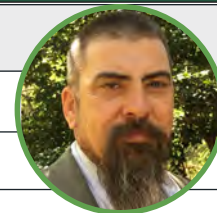


16. Staff Experience:	
03/24-Present	Brownswitch Road Bridge Replacement, St. Tammany Parish, Louisiana Oversees every step of the process, ensuring compliance with all regulations and transparency between all stakeholders in the project. ELOS was contracted to collect data and prepare a report to support a Wetland Delineation and manage the permit process with the USACE. ELOS will facilitate compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 by completing a Section 106 Desktop Review. ELOS will conduct a biological survey to determine potential effects on species protected under the Endangered Species Act (ESA), Migratory Bird Treaty Act (MBTA), Bald and Golden Eagle Protection Act (BGEPA), and all other applicable laws and regulations.
04/22-Present	Yellow Water Road Bridge Replacement; Tangipahoa Parish, Louisiana Oversees the findings of all reviews and the permit packet before submission. ELOS has been contracted to prepare an Early Section 106 Tribal coordination packet and submit it to the DOTD Project Manager (ELOS will not directly communicate with the tribal governments). ELOS will conduct a biological assessment and review previous Historic Reviews.
12/22-Present	Wildwood Dr. Bridge, Livingston Parish, Louisiana Directed the assessments and ensured the accuracy of the Cultural Resource Survey. Supervised the submission of all pertinent documentation to the appropriate agencies. ELOS was contracted to perform a Wetlands Delineation Assessment, a Biological Assessment, and a Cultural Resource Survey.
11/17-Present	Move Ascension Phases I, II, and III, Ascension Parish, Louisiana Reviewed delineation details, edited cultural resource reports, developed and analyzed alternatives, reviewed schedules, assisted with wetland mitigation, and reviewed permit applications. ELOS is contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish.
08/22-Present	Lake Road, St. Tammany Parish, Louisiana Reviewed the CE packet and assisted with agency coordination and requests for more information. ELOS was contracted to complete the solicitation of views and categorical exclusion notices, conduct a wetland delineation, and submit a joint permit application, scenic rivers permit application, and USCG bridge permit application for the project.
02/23-Present	DOTD Roundabout at Minnesota Park and Range Road; Tangipahoa Parish, Louisiana Monitors the project timelines, milestones, and budgets to ensure the timely delivery of EAs that align with project schedules. Reviewed the SOVs and supporting documentation before initiating the process with agencies. ELOS is contracted to complete a wetland delineation report, submit a permit application, and assist with a CATEX, Phase I ESA, and the SOVs for the roundabout project at the intersection of Minnesota Park and Range Road.
08/22-Present	MoveBR Mickens Road, East Baton Rouge Parish, Louisiana Reviewed the wetland delineation report, coordinated staff for the Phase I ESA tasks, reviewed final reports, and consulted with the Parish leadership. ELOS is contracted to provide environmental services for a 2.8-mile-long roadway improvement project on Mickens Road from Hooper Road to Joor Road in East Baton Rouge. Services included a wetland delineation, a Phase I ESA, and a permit application to USACE.

16. Staff Experience:

Firm employed by: ELOS Environmental, LLC

Name	Brian Fortson		Years of relevant experience with this employer	13
Title	Senior Project Manager / Biologist		Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization		Juris Doctorate / 2006 / Civil Law; BS / 1995 / Wetland Ecology		
Active registration number / state / expiration date		N/A		
Year registered	N/A		Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services		
Brian has over 30 years of environmental experience in providing technical expertise and environmental knowledge to ELOS personnel through managing and permitting various complex developmental infrastructure projects. Brian serves as the senior environmental scientist at ELOS, working with regulatory agencies such as USDA, NRCS, FEMA, USACE, LADNR, and LDEQ. Brian's knowledge of state and federal environmental regulation and his years of experience enables him to navigate the permitting process. Brian provides senior guidance to the environmental scientists at ELOS on plant identification and threatened and endangered species surveys.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23-Present	EBR Off System Bridge Program, East Baton Rouge Parish, Louisiana Coordinated with the environmental scientists to review the wetland delineation reports and assist with USACE permit applications for 13 bridge replacements.			
09/20-Present	Rural Bridges Phases I and II, Statewide, Louisiana Reviewed wetland delineation reports and CE documentation, discussed findings and reviewed data for final reports, and met with staff internally to develop threatened and endangered species surveys. ELOS has been contracted to provide professional environmental consulting services for the LADOTD Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a T&E survey.			
09/22-Present	IIJA Off-System Bridges, District 62, Louisiana Reviewed the findings reports before sending them to the client. This off-system bridge project involves the replacement of six bridges. ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and writing navigability determination reports			
10/22-09/23	Rousseau Bridge Replacement, St. Tammany Parish, Louisiana Assisted with the report drafts and permit applications. ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres. Services included a wetland delineation, scenic rivers permit application, emergency authorization application to USACE, SOVs, and a final report.			
05/21-05/22	STP Chris Kennedy RD Bridge Replacement, St. Tammany Parish, Louisiana Coordinated with internal teams to review reports, correlative maps, and environmental data. ELOS provided professional environmental engineering services to collect data to further prepare reports for wetland delineation, biological assessment, and cultural impact in accordance with the removal and replacement plans.			

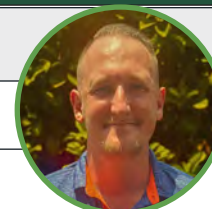


16. Staff Experience:			
Firm employed by: ELOS Environmental, LLC			
Name	Cory Ricks	Years of relevant experience with this employer	8
Title	Environmental Scientist	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2015 / Biology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services	
Cory serves as ELOS's wetland delineation specialist and he has led wetland delineation efforts for multiple projects for local development, mitigation banks, and infrastructure developments. He has provided assistance with NEPA documentation, permitting, wetland delineations, GIS mapping, and cultural resources for a variety of projects. He currently manages a team of environmental scientists, field biologists, and data processors who all assist on a variety of environmental and debris monitoring projects.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20-Present	Rural Bridges Phases I and II, Statewide, Louisiana Coordinated field crews, performed wetland delineations, written and produced reports, developed timelines, coordinated with LADOTD, and assisted with the surveys. ELOS has been contracted to provide professional environmental consulting services for two phases of the LADOTD Rural Bridge Replacement Initiative. Phase 1 involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a threatened and endangered species survey.		
06/22-09/23	Rousseau Bridge Replacement, St. Tammany Parish, Louisiana Worked on the emergency authorization application since the bridge was the only way to access a neighborhood, assisted with the Scenic Rivers permit application, and provided project updates. ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres. Services included a wetland delineation, scenic rivers permit application, emergency authorization application to USACE, SOVs, and a final report.		
04/22-02/24	Tangi Off-System Bridge Prioritization, Tangipahoa Parish, Louisiana Conducted a gopher turtle survey, wrote the findings report, completed permit applications with supporting documentation, and assisted with coordination. ELOS is contracted to provide environmental services, including wetland delineations, SOVs, CE documents, and permit applications and drawings for six bridges to be replaced.		
11/17-Present	Move Ascension Phases I, II, and III, Ascension Parish, Louisiana Leads a team of field members to perform the wetland delineations. Assisted with cultural resources field investigations and permit applications to state and federal agencies (USACE, LEDNR, LADOTD). ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, ranging from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish.		
05/21-05/21	Tammany Trace Bridge Replacement, St. Tammany Parish, Louisiana Performed the wetland delineation, entered the wetforms, revised transmittals, reviewed the photographs/logs, coordinated with the GIS team to update maps, and submitted the wetland findings report.		
05/22-03/24	North Brickyard Road Bridge Replacement Program, Tangipahoa Parish, Louisiana Initiated the SOVs, CE documents, and reviewed all supporting documents sent and received from the agencies. Assisted with permit applications and agency coordination when requested.		



16. Staff Experience:

Firm employed by: ELOS Environmental, LLC



Name	Christopher Wilson, RPA 12		Years of relevant experience with this employer	2
Title	Archaeologist		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		AMA / 2023 / Art History and Curatorial Studies; MA / 2022 / Archaeology; BA / 2021 / Art and Archaeology		
Active registration number / state / expiration date		RPA: #5660 / N/A / N/A		
Year registered	2023		Discipline	Archaeology
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services; MPR 12		
Christopher is a Registered Professional Archaeologist (RPA) with experience in archaeological management, excavation, and the processing of artifacts. He earned his Master of Arts in Archaeology from Yale University and has worked on excavation projects in Greece, Poland, Portugal, and the United States. Mr. Wilson has deep and broad expertise in both terrestrial and maritime archaeology, including desktop reviews, Phase I surveys, Phase II evaluations, and Phase III data recovery, as well as historic structure evaluation, historic preservation, curation, budget creation and management, and drafting and negotiating Memorandums of Agreement. Additional services include ethnography, construction monitoring, ground-penetrating radar, and remote sensing surveys. Mr. Wilson is a certified open-water diver and a veteran of the United States Marine Corps.				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23-11/24	Rural Bridge Replacement Phases I and II, Statewide, Louisiana Responsible for providing Cultural Resource Management (CRM) services for a LADOTD rural bridge replacement project. His duties included conducting research, preparing a Phase I report, and managing Shovel Test Pit data. He coordinated with agencies such as State Historic Preservation Office (SHPO), National Register of Historic Places, and LADOTD. Additional tasks include preparing transmittal letters, completing Louisiana Historic Resource Inventory (LHRI) forms, managing the Survey123 platform, overseeing field crew activities, and preparing and submitting the final report. Mr. Wilson ensured all documentation and processes meet regulatory requirements for cultural resource assessments.			
12/23-09/24	IIJA Off-System Bridges District 62, Statewide, Louisiana Responsible for providing comprehensive CRM services for the LADOTD Off-System Bridges District 62 project. His tasks included conducting background research, preparing desktop reports, and overseeing field crew activities. He utilized topographical maps and aerial investigations to gather critical data. Mr. Wilson also created and submitted tribal packet research, along with collecting CRM information necessary for CATEX evaluations. Additionally, he coordinated with agencies such as LHRI, LADOTD, and SHPO to ensure compliance with regulations. Mr. Wilson prepared a Section 106 desktop report, assessing potential impacts on historic properties and ensuring the project aligns with cultural resource preservation requirements.			
10/24-Present	Brownswitch Road Bridge Replacement, St. Tammany Parish, Louisiana Provides CRM services, focusing on Section 106 compliance. His responsibilities include conducting a CRM Section 106 desktop review to assess the potential impacts of the bridge replacement on cultural resources. This involves reviewing SHPO databases for historic properties, conducting a cemetery review to identify any burial sites in the area, and assisting with the preparation of maps and aerial images to support the cultural resource assessment. He also compiles and creates a detailed Section 106 desktop review report, summarizing findings and ensuring compliance with historic preservation requirements, while addressing potential impacts to cultural resources in the project area.			

16. Staff Experience:	
11/23-11/23	Tangi Off-System Bridge Prioritization, Louisiana Mr. Wilson provided a review of the project site to assess the potential effects of bridge replacements on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.
11/23-11/23	N. Brickyard Road Bridge Replacement, Tangipahoa Parish, Louisiana Reviewed the project site to assess with the potential effects of the bridge replacement on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.
07/24-09/24	US 190 Roundabouts, St. Tammany Parish, Louisiana Responsible for CRM services for the construction of three roundabouts along Highway 190 in St. Tammany in support of Section 106 compliance. His responsibilities included SHPO files to include all previously recorded cultural resource surveys, archaeological sites, and historic structures within a 1-mile radius. He also compiles reviews and reports to summarize findings and addresses any potential impacts on cultural resources, including cemetery reviews.
10/24-10/24	Old Mill Settlement Road, Livingston Parish, Louisiana Responsible for performing a Section 106 desktop review in support of Livingston Parish Government for their proposed road project. His responsibilities included but were not limited to working with all applicable state agencies and adhering to the regulations of 36 CFR Part 800. He verified that the site had experienced some disturbances due to road construction and that there was a high probability of possible Cultural resources due to the proximity of the Amite River and the previously recorded archaeological sites.
07/24-09/24	Juban North Extension, Livingston Parish, Louisiana Provided a Section 190n desktop review for Livingston Parish Juban Road Extension. He researched and reviewed historical maps, aerial photographs, and the online database of archaeological and historic sites maintained by SHPO. He found that there had been 11 cultural resource investigations within 1-mile of the project area. He also reviewed historical topographical maps and aeriels. Mr. Wilson found that because the site had not been heavily altered through construction previously a historic structure survey was recommended.
03/24-04/24	5th Street Improvements, Jefferson Parish, Louisiana Performed a Phase I Cultural Resource Survey of 0.5-mile radius of the projected improvement project. This included a pedestrian survey, taking systematic photos, recording addresses of all historic structures, and completing all Louisiana Historic Resource Inventory forms. The buildings were found to not be eligible but it was noted that they are in a district that is potentially eligible as a Postwar Commercial Strip. He developed a plan for any cultural material encountered would be labeled with provenance and temporarily curated by ELOS. In the end, he recommended the project proceed as planned after concluding no significant cultural resources would be impacted.
06/24-10/24	Move Ascension Phase III, Ascension Parish, Louisiana Responsible for conducting a Section 106 Desktop Review of the Roddy Road area as part of the third phase of Move Ascension project. This review included identifying potential historic structures by using SHPO databases and files. He also reviewed historic aerial images for structures in the area. He was able to identify from the multiple sources that there were historical structures. He compiled his findings and met with GIS to report them.
10/23-02/24	Tangipahoa USDOT BIP Services 2023, Tangipahoa Parish, Louisiana Performed a Cultural Resource Review of previous investigations. These investigations included surveys, cemeteries, and listings of historic structures. He coordinated with the project manager and SHPO while conducting and documenting the review.

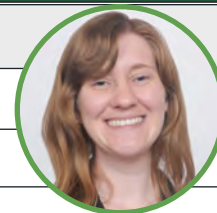
16. Staff Experience:			
Firm employed by: ELOS Environmental, LLC			
Name	JJ Pearsall	Years of relevant experience with this employer	1
Title	GIS Manager	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization		BA / 2004 / Geography	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services	
JJ has experience with ArcGIS Online, Collector of ArcGIS, Survey 123, Expert GPS, BaseCamp, and Google Earth. He collects and interprets field data in support of environmental analyses and impact assessments. The figures and maps he and his staff generate are vital to the development of NEPA documentation, Threatened and Endangered (T&E) Species Surveys, Wetland Delineations and Jurisdictional Determinations, Phase I Environmental Site Assessment, Section 404/10 and Coastal Use Permit applications, and wetland assessments models.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
5/24-4/25	GIS General Services, Livingston Parish, Louisiana Provided GIS tutorials and technical support to the LPG Department of Public Works team, enabling them to utilize the GIS tools effectively. The scope of work included efficiently managing the shapefiles and CAD files to maintain data integrity and facilitate seamless access to crucial geographical information, organizing and managing the geodatabase, and ensuring data is stored optimally for user accessibility and future scalability.		
4/24-Present	DDB Freshwater Bayou Locks, Vermilion Parish, Louisiana ELOS has been contracted to provide general consulting services for project design and permitting, and to create a Stormwater Pollution Prevention Plan for construction activities. Mr. Pearsall has produced figures to illustrate the Stormwater Pollution Prevention Plan, soil and topo vicinity maps, and erosion and sediment control site plans.		
4/24-Present	Marvin Braud Levee Improvements, Ascension Parish, Louisiana Completed wetland delineation figures and maps, soils and elevation maps, and edited the pump station aerial view to show elevations and the coastal zone boundary for the EA. ELOS is contracted to complete an EA, Section 106 desktop review and consultation, and a wetlands delineation and jurisdictional determination to upgrade the Marvin Braud pump station and to elevate three levees in McElroy Swamp near Sorrento.		
4/24-Present	Tangipahoa Parish Coastal Master Plan, Tangipahoa Parish, Louisiana Created maps and figures to illustrate the coastal master plan. ELOS has been contracted to prepare the Parish's master plan, which will develop a comprehensive and actionable coastal resilience, protection, and sustainable development strategy.		
4/24-Present	Bayou Manchac Cleanout; Ascension Parish, Louisiana Worked on a plan view to create a dredging layer, completed figures showing access points and cross-sections, completed topo vicinity maps, researched public datasets for the soils and arials available, and combined wetlands and water data. ELOS is contracted to perform environmental services for a two-phase project to clear and snag Bayou Manchac and then dredge it from the Amite River to Nicholson Drive. This included performing a wetland delineation, completing and submitting a joint permit application, completing a Scenic Rivers permit application, conducting a solicitation of views for an Environmental Review Record, and completing a Section 106 desktop review.		



16. Staff Experience:

Firm employed by: ELOS Environmental, LLC

Name	Sarah Knauer ¹³	Years of relevant experience with this employer	1
Title	Architectural Historian	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		MS / 2020 / Historic Preservation; BA / 2016 / Anthropology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services; MPR ¹³	
Sarah possesses 15 years of experience in historic preservation and archaeology within the northeastern and southeastern United States. Her expertise includes coordinating a local downtown historic district to uphold National Register (NR) district integrity and community engagement. She has also pursued historic tax credits for the United States Department of Housing and Urban Development (HUD), fortified standard, and real estate development projects, and national register nominations. Notably, Ms. Knauer submitted the NR listing for the Hammond High School Gymnasium in Hammond, Louisiana, and participated in surveys of the Lake Charles Historic District and the Hollygrove neighborhood in Orleans Parish, Louisiana. Additionally, she teaches Community History, Historic Site Management, and Survey of Asian Empires. Sarah contributes to historic preservation projects by assisting in completing survey planning, fieldwork, and evaluating historic resources for federal and state government-funded initiatives as well as for private clients within the Historic Resources Department.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/25-Present	Clearwater Dr over Millers Canal Bridge Replacement, Livingston Parish, Louisiana Assisted with the Section 106 desktop review and identified all historic structures within the area of potential effect. Assisted with QA/QC for the draft of the review report and edited the report for overall consistency and clarity.		
01/26-Present	Peters Road Bridge, Jefferson and Plaquemines Parishes, Louisiana Completed the architectural survey within a 150-m APE, identifying resources, documenting historic resources, and determining eligibility. The survey recorded 16 new resources, none of which were eligible for the NRHP, including a railroad spur, two bridges, a waterway, and 11 buildings. ELOS found that no significant archaeological resources would be affected, but noted a potential adverse effect on the historic waterway and recommended that managers consult to mitigate this effect. ELOS performed a Phase I Cultural Resources Survey for Phase 3 of the Peters Road Bridge and Extension in Jefferson and Plaquemines Parishes, Louisiana, covering 97.74 acres. The project plans to build a new bridge across the Gulf Intracoastal Waterway and a 5-mile-long two-lane access road.		
10/25-Present	OLHC Bridge Projects Statewide, Louisiana Assisted with evaluating each bridge in order to submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the NRHP, including previously unidentified properties. ELOS was contracted to provide environmental and cultural resource services to support the project engineers in developing plans for the replacement of bridges in Vermilion, Terrebonne, Livingston, and St. Bernard Parishes. Each bridge replacement site measures approximately 0.5 acres, with the total project area encompassing roughly 6 acres. The bridges are situated along both natural and man-made waterways in areas identified by the Louisiana SHPO as having a high probability of containing archaeological sites and unrecorded historic properties. ELOS provided services required to obtain USACE regulatory permits, including submitting a SOVs, conducting ground-level investigations of the ROW to locate wetlands, verifying the aerial base mapping, and providing cultural and historic resources evaluations for each bridge.		



16. Staff Experience:

Firm employed by: Coastal Environments, Inc.

Name	Douglas Wells, PhD 11	Years of relevant experience with this employer	27
Title	Archaeologist Principal Investigator	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization		PhD / 1998 / Anthropology; BA / 1989 / Anthropology and Chemistry	
Active registration number / state / expiration date		National Preservation Institute Section 106: An Introduction	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental and Permitting Services; MPR 11	
Douglas is an Archaeologist-Principal Investigator who has worked at Coastal Environments, Inc. since 1998. His experience includes a broad spectrum of project types, including reconnaissance survey, Phase I survey, Phase II testing, Phase III data-recovery excavation, archaeological research design, construction monitoring, and collections assessment. He has extensive experience in artifact analysis (particularly prehistoric), drafting, photography, and technical writing. His writings include numerous Section 106 (Phase I, II, and III) reports, data-recovery plans, memoranda of agreement, archaeological research designs, chapters in edited volumes, conference papers, and portions of EAs and EISs in compliance with NEPA standards. Dr. Wells has evaluated numerous archaeological sites and prepared reports on their significance during his time with CEI. He has completed the course on Section 106 of the National Historic Preservation Act.			
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/24-01/25	Northwest Little Lake Marsh Creation-Increment II Project (BA-0260) Terrace Fields, for Louisiana Coastal Protection and Restoration Authority, Louisiana Principal investigator for Phase I Cultural Resources Survey.		
01/24-10/24	Bayou Sale Living Shoreline Project, Chitimacha Tribe, St. Mary Parish, Louisiana Principal investigator for Phase I Cultural Resources Survey.		
09/23-03/24	Northwest Little Lake Marsh Creation Project (BA-0268), Lafourche Parish, for Louisiana Coastal Protection and Restoration Authority, Louisiana Principal investigator for Phase I Cultural Resources Survey.		
05/22-08/24	Site 16CU128, Calcasieu Parish, Louisiana Principal investigator for delineation of site boundaries.		
02/22-11/23	East Baton Rouge Flood Risk Management Project, East Baton Rouge Parish, New Orleans District, Louisiana Principal investigator for Phase I Cultural Resources Survey.		
09/21-10/22	Yazoo Basin Wells Project, Bolivar, Coahoma, and Washington Counties, Vicksburg District, Mississippi Principal investigator for Phase I Cultural Resources Survey.		
06/20-12/21	Testing of Sites 22GR215 and 22GR216, Camp McCain, Grenada County, for Mississippi National Guard, Mississippi Principal investigator for Phase II NRHP.		
03/21-10/21	Testing of Site 16CU128, Calcasieu Parish, Louisiana Principal investigator for Phase II NRHP.		
02/20-05/21	Marsh Creation Project, Plaquemines Parish, Louisiana Principal investigator for Phase I Cultural Resources Survey of the Mid-Breton Land Bridge West (BS-0038).		
11/19-03/21	LA 307 Corridor, Lafourche Parish, New Orleans District, Louisiana Principal investigator for Phase I Cultural Resources Survey of Wetland Mitigation Areas.		



SECTION 17

FIRM EXPERIENCE



17. Firm Experience:

Firm name	HNTB Corporation	Discipline(s)*	Bridge, Road
Project name	LA 1 Phase 2	Firm responsibility (prime or sub?)	Prime
Project number	H.008145	Owner's name	LADOTD
Project location	Golden Meadow to Port Fourchon, Louisiana	Owner's Project Manager	Ryan Morvant
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1232 / ryan.morvant@la.gov		
Services commenced by this firm (mm/yy)	10/12	Total consultant contract cost (\$1,000's)	\$21,618
Services completed by this firm (mm/yy)	Design: 07/21 Construction: Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$14,573

The LA 1 bridge, also known as the "LA 1 Expressway," is a roughly nine mile elevated bridge over the tidal marshes of the Mississippi River delta constructed to replace the previous low elevation route of LA 1. This portion of LA 1, which is the sole land route to Port Fourchon, one of the nation's leading oil and gas ports, services nearly 20% of America's energy infrastructure. Phase 2 of the LA 1 project extends the existing elevated bridge northwards from Leeville to Golden Meadow, where it will connect with an existing four lane road (LA 3235) inside the coastal levee system. Using top-down construction, which employs a gantry system to construct the bridge from the already completed structure, the contractor avoids wetland disturbance by not having equipment on the ground. HNTB provided the following services for the LA 1 project:

Design Services: As designer of record, design elements included the following:

- » Nine miles of elevated bridge crossing canals, pipelines, wetlands and a levee
- » Levee floodwall
- » Approach roadway and surrounding local road tie-ins, and signage layouts
- » Geotechnical services
- » Expedited Delivery Schedule: Needing to meet the INFRA grant deadline of obligated funding by March 31, 2023, an expedited plan delivery schedule was necessary. HNTB delivered the 1,200 sheet plan set on time utilizing an extremely condensed schedule and extensive collaboration between multiple disciplines, subconsultants, and most importantly the LADOTD.

Innovative Techniques: HNTB's innovated techniques included:

- » Eliminating transversely battered piles to reduce construction schedule and cost
- » Implementing optimal span lengths for top-down construction
- » Providing three design alternatives for the contractor to bid on, ensuring a competitive bid
- » Utilization of precast elements, both superstructure and substructure, for the top-down construction.

Construction Services: HNTB is providing critical construction support with

LADOTD to overcome any construction issues that arise in order to keep the project on schedule

- » Reviewing large batches of shop drawings and responding to any RFIs in a timely manner, HNTB is ensuring the bridge is being constructed in accordance with the contract plans and Louisiana Standard Specifications. HNTB is also monitoring the pile driving using PDA devices, which ensures a seamless integration of field pile data with the design.

Key Staff: Dusty Bastion, Josh Porter, Marc Hoffmann, John Bernard, Patrick Duffy, Brian Powell, Jared Sommers, and Kate Prejean

**PROJECT RELEVANCY**

- » Bridge Design
- » Accelerated Bridge Construction
- » Geotechnical Design
- » On Site Construction Support
- » Condensed Schedule

17. Firm Experience:

Firm name	HNTB Corporation	Discipline(s)*	Bridge, Road, Geotech, Other (Hydraulic), Other (Electrical)	
Project name	2022 IDIQ Contract for Bridge Preservation		Firm responsibility	Prime
Project number	4400024189	Owner's name	LADOTD	
Project location	Statewide, Louisiana	Owner's Project Manager	Brian Allen, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1840 / brian.allen@la.gov		
Services commenced by this firm (mm/yy)		09/22	Total consultant contract cost (\$1,000's)	\$7,652
Services completed by this firm (mm/yy)		ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$7,016

As part of this five-year IDIQ retainer contract focused on bridge preservation, HNTB has 20 task orders (TO) to date. Task orders included a variety of bridge replacements, rehabilitations, feasibilities, electrical design, hydraulic analysis, and construction support services. A summary of the task orders performed under this contract are provided below:

REHABILITATION AND REPAIR RELATED TASK ORDERS:

- » **TO 1, I-110 Rehabilitation:** Pavement rehabilitation and overlay, drainage structures repair and replacement, bridge structural jacking and rehabilitation, and median barrier replacement. Includes survey and traffic analysis subconsultants.
- » **TO 11, LA 3139 Ramp Repair:** Prestressed concrete girder strand splicing and carbon fiber reinforced polymer (CFRP) wrapping.
- » **TO 14, GNO Truss Bridge Repair:** Splice plate placement on vertical truss members over areas of section loss and cleaning and painting.
- » **TO 17, I-12 over Airline Highway Girder Repair:** Heat straightening, structural concrete patching, epoxy injection, and cleaning and painting. Includes traffic analysis subconsultants.

FEASIBILITY & ELECTRICAL DESIGN TASK ORDERS:

- » **TO 3, Chippewa Pump Station Improvements Feasibility:** Investigation and hydraulic pump improvement recommendations.
- » **TO 12, Chippewa Electrical Design:** Placement of electrical vehicular warning gate arms before the underpass to be activated in flood conditions.

BRIDGE REPLACEMENT TASK ORDERS:

- » **TO 04, LA 47 over Bayou Bienvenue:** Bridge replacement using precast and cast-in-place elements, and phased construction. Included survey and geotechnical exploration subconsultants.
- » **TO 05, I-12 Hog Branch Replacement:** Bridge replacement using LG 54s, complex phased construction, and median barrier placement.
- » **TO 06, LA 327-S Bayou Fountain:** Bridge replacement using concrete deck slabs with sidewalks on each side of the bridge. included geotechnical analysis.

- » **TO 08, US 80 Bridges Near Minden:** 4 multi-disciplinary bridge replacements including roadway design and hydraulic analysis. Included environmental subconsultant.
- » **TO 09 & 10, Grover Jones & Sidney Leblanc Replacement:** Multi-disciplinary bridge replacements including roadway design, geotechnical design, and hydraulic analysis. Included survey and environmental services.
- » **TO 15, Larto Lake Bridge Replacement and Grade Raising:** Bridge replacement with a LG-45 span and concrete deck slab spans. Roadway work included raising the grade of the approach roadway by 5ft for 0.5 miles.
- » **TO 16, I-12 Median Barrier:** Replacement of portions of median barrier in hydraulic flood areas. Replaced median barrier includes hydraulically efficient drain slots. Included survey subconsultant.

CONSTRUCTION RELATED ENGINEERING SUPPORT TASK ORDERS:

- » **TO 02, I-20 Median Barrier CRES**
- » **TO 07, Bayou Bienvenue CRES**
- » **TO 13, Calcasieu Bridge Repairs CRES**
- » **TO 18, LA 3139 Ramp Repair CRES**
- » **TO 19, Chippewa Electrical Design CRES**
- » **TO 20, I-12 Median Barrier CRES**

Key Staff: Dusty Bastion, Josh Porter, Marc Hoffmann, Patrick Duffy, Mark Elkassouf, John Bernard, Ryan Felder, Paul Hinojo, Mira Para, Brian Powell, Jared Sommers, Brad Wilder, and Paul Hunter

Project Relevancy: Bridge Design, Bridge Rehabilitation, Bridge Load Rating, Geotechnical Design, Roadway Design, Electrical Design, Hydraulic Analysis

Key Subconsultants: Forte and Tablada, Inc., Ardaman & Associates, ELOS Environmental, LLC, and Vectura Consulting

20

TASK ORDERS

- 8 Bridge Designs
- 4 Rehab
- 6 CRES
- 1 Feasibility
- 1 Lighting / Electrical

2022

17. Firm Experience:

Firm name	HNTB Corporation	Discipline(s)*	Bridge, Road, Geotech
Project name	2020 IDIQ Contract for Bridge Preservation		Firm responsibility (prime or sub?) Prime
Project number	4400017264	Owner's name	LADOTD
Project location	Statewide, Louisiana	Owner's Project Manager	Brian Allen, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1840 / brian.allen@la.gov		
Services commenced by this firm (mm/yy)	04/20	Total consultant contract cost (\$1,000's)	\$6,150
Services completed by this firm (mm/yy)	04/25	Cost of consultant services provided by this firm (\$1,000's)	\$5,030

As part of this five-year IDIQ retainer contract focused on bridge preservation, HNTB completed 22 task orders. Task orders included a variety of bridge replacements, bridge rehabilitations, and construction support services. A summary of the TOs performed under this contract are provided below:

REHABILITATION AND REPAIR TASK ORDERS:

- » **TO 3, I-20 Rehabilitation (Pines Road to I-220):** (7) approach slab replacements, backwall replacements and replacement of the median barrier.
- » **TO 6, I-20 Orange Street Overpass Repair:** Heat straightening, new stiffeners and cross frames, and cleaning and painting.
- » **TO 7, I-12 LA 1032 Overpass Girder Repair:** Damaged exterior girder replacement, prestressing strand splicing, and patching and carbon fiber wrapping four girders.

TRUSS BRIDGES TASK ORDERS:

- » **TO 16, I-10 Calcasieu River Bridge Interim Repairs (HBI):** Girder jacking to replace bearings, stringer bearing seat replacements, repairing cracked stringer-to-floorbeam, finger joint repair, patching deck spalls, substructure modifications, and geotechnical design.
- » **TO 17, LA 3213 Gramercy Bridge Rehabilitation:** Jacking of approach spans to re-position spans and providing span restraint mechanisms, cleaning and painting, replacement of truss member rivets, replacement of joint seals, replacement of bearing pads, concrete revetment repair, and heat straightening

BRIDGE REPLACEMENT TASK ORDERS:

- » **TO 02, LA 1 over Caddo Lake:** 2,000ft bridge replacement using LG 54 and LG 36 spans. Included geotechnical design.
- » **TO 18, I-12 Hog Branch Replacement:** Bridge replacement using LG 54s, complex phased construction, and median barrier placement.
- » **TO 20, LA 327-S Bayou Fountain:** Bridge replacement using concrete deck slabs with a sidewalk on each side of the bridge. Included geotechnical design.

- » **TO 22, LA 124 Extension Near Larto (Segments 2 & 3):** Bridge replacement including an access walkway from the new bridge to the flood control weir, a LG-36 span, and concrete deck slab spans.

CONSTRUCTION RELATED ENGINEERING SUPPORT TASK ORDERS:

- » **TO 10, LA 1 over Caddo Lake CRES**
- » **TO 11, LA 3250**
- » **TO 12, Boeuf River Bridge CRES**
- » **TO 15, I-12 over LA 1032 CRES**

Key Staff: Dusty Bastion, Josh Porter, Patrick Duffy, Marc Hoffmann, John Bernard, Ryan Felder, Brian Powell, Jared Sommers, and Brad Wilder

Key Subconsultants: Forte and Tablada, Inc., Ardaman & Associates, and Vectura Consulting

22

TASK ORDERS

- 8 Bridge Designs
- 6 Rehabs
- 4 CRES
- 2 Feasibility
- 2 Electrical

2020



PROJECT RELEVANCY

- » Bridge Design
- » Bridge Rehabilitation
- » Bridge Load Rating
- » Geotechnical Design
- » Roadway Design

17. Firm Experience:

Firm name	HNTB Corporation		Discipline(s)*		Bridge, Road, Geotech, Other (Electrical)	
Project name	2015 IDIQ Contract for Bridge Preservation			Firm responsibility (prime or sub?)		Prime
Project number	4400005772		Owner's name		LADOTD	
Project location	Statewide, Louisiana		Owner's Project Manager		Zhengzheng "Jenny" Fu, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1321 / zhengzheng.fu@la.gov				
Services commenced by this firm (mm/yy)		08/15	Total consultant contract cost (\$1,000's)			\$4,692
Services completed by this firm (mm/yy)		08/20	Cost of consultant services provided by this firm (\$1,000's)			\$4,325

As part of this five-year IDIQ retainer contract focused on bridge preservation, HNTB completed 31 task orders. Task orders included bridge replacements, bridge rehabilitations including emergency repair projects, and construction support services. A summary of the TOs performed under this contract are provided below:

REHABILITATION AND REPAIR TASK ORDERS:

- » **TO 8, U.S. 90 Atchafalaya Bridge Rehabilitation:** Rehabilitation and painting plans in Morgan City. Rehabilitation included strengthening and replacing gusset plates, painting structural steel, modifying existing drain holes, replacing false chord expansion members, replacing rivets and bolts. In addition, electrical tasks included navigation lighting replacement.
- » **TO 15, U.S. 90 LDRR & LA 329 Bridge Rehabilitation:** Rehabilitation design and plans in Iberia Parish. Rehabilitation included bearing pad replacement, backwall replacements, approach slab replacements, anchor bolt replacements, joint seal replacements, structural concrete patching, and placing an epoxy-urethane overlay.
- » **TO 24, I-10 Loyola Bridge Rehabilitation:** Rehabilitation design and plans in Kenner. Rehabilitation included concrete barrier repairs, sawcutting new approach slab pavement relief joints, and epoxy injecting cracks.

EMERGENCY RELATED TASK ORDERS:

- » **TO 31, LA 3250 OVER I-49/UPRR:** Emergency repair plans to address damage caused by an over height vehicle impact. Included going straight to 95% final plans and utilized SPMT movement to replace 3 damaged girders. Traffic disruptions were limited to only two days.
- » **TO 23, I-10 Veterans Bridge Rehabilitation:** Rehabilitation design and plans in Metairie, Louisiana. Included going straight to 95% final plans and utilized precast elements to replace fire damaged sections of the slab span. All repairs were completed using a single lane closure in one weekend.

BRIDGE REPLACEMENT RELATED TASK ORDERS:

- » **TO 3, U.S. 80 over I-20 Bridge Replacement:** Design and plans for a two-

span, 290-foot steel girder bridge crossing I-20 to replace the existing six-span structure. Superstructure was built off alignment and moved into place using SPMT.

- » **TO 18, Boeuf River Bridge Replacement:** Design and plans for a five-span, 500-foot precast prestressed girder bridge using LG 54s.
- » **TO 21, LA 532 over I-20 Bridge Replacement:** Design and plans for a four-span, 300-foot precast prestressed girder bridge crossing using LG 36s and drilled shafts.

Key Staff: Dusty Bastion, Josh Porter, Patrick Roth, Marc Hoffmann, John Bernard, Brian Powell, Jared Sommers, Brad Wilder, and Kate Prejean

Key Subconsultants: KGC, Forte and Tablada, Inc., and Ardaman & Associates

31**TASK ORDERS**

8 Bridge Designs
5 Rehabs
11 CRES
2 Feasibility
2 Instrument Testing

2015**PROJECT RELEVANCY**

- » Bridge Design
- » Bridge Rehabilitation
- » Bridge Load Rating
- » Geotechnical Design
- » Roadway Design

17. Firm Experience:

Firm name	HNTB Corporation	Discipline(s)*	Bridge, Road, Geotech
Project name	LA 47 Bayou Bienvenue Bridge Replacement		Firm responsibility (prime or sub?) Prime
Project number	H.015935	Owner's name	LADOTD
Project location	Orleans/St. Bernard Parishes, Louisiana	Owner's Project Manager	Kurt Brauner, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1809 / kurt.brauner@la.gov		
Services commenced by this firm (mm/yy)	04/24	Total consultant contract cost (\$1,000's)	\$532
Services completed by this firm (mm/yy)	09/24	Cost of consultant services provided by this firm (\$1,000's)	\$357

In 2024, the LA 47 bridge over Bayou Bienvenue in Orleans and St. Bernard Parishes was noted to have significant structural deficiencies to the underside of the bridge due to the corrosive brackish water requiring immediate replacement. HNTB was contracted to develop design and replacement plans for the deteriorating bridge. The existing bridge consisted of 15 concrete deck slab spans with an overall width of 92 feet. The bridge is located in highly corrosive brackish water, contributing to the rapid deterioration of the bridge towards the end of its life-span. The following items were key to a successful, expedited delivery of the bridge replacement:

- » **Expedited Plan Delivery:** As time was of the essence HNTB expedited the delivery of final plans by selecting a key number of deliverable milestones with an expedited schedule. From the initiation of the project, HNTB performed all required designs and plan development in five months, including utilizing its subconsultants to obtain survey and geotechnical exploration information. HNTB selected a 3-point deliverable schedule: a preliminary submittal, a 95% final plan submittal, and a 100% final plan submittal.
- » **Phased Construction:** Phased construction was utilized to reduce impacts to the traveling public by shifting all traffic to one side of the bridge while the adjacent portion of the bridge is being replaced. This eliminated the need for a detour, which would cause adverse impacts to traffic.
- » **Accelerated Bridge Construction:** To expedite the replacement of the rapidly deteriorating bridge, accelerated bridge construction techniques were used by utilizing precast bent caps. To achieve expedited fabrication, as well as expedited erection, HNTB designed all the precast bent caps to be the exact same (including all dimensions, reinforcing steel, and concrete type) regardless of the different phases of construction.
- » **Corrosion Protection:** Due to the highly corrosive brackish water crossing underneath the bridge, as well as the frequent flooding in this area, HNTB incorporated preventative corrosive techniques into the design and plans. Stainless steel reinforcing steel was utilized in both the deck slab as well as the bent caps. For preventing corrosion to the 136 precast prestressed concrete piles, discreet galvanic anodes were incorporated into the plans to

place them inside the concrete piles. The discreet galvanic anodes prevent corrosion by directing corrosion current away from the reinforcing steel and into the metal anode.

Key Staff: Josh Porter, Marc Hoffmann, John Bernard, Ryan Felder, Brian Powell, and Jared Sommers

Key Subconsultants: Forte and Tablada, Inc. and Ardaman & Associates

**PROJECT RELEVANCY**

- » Phased Bridge Replacement
- » Accelerated Bridge Construction
- » Condensed Schedule Task Order
- » Preventative Corrosion Techniques
- » Roadway Tie-In and Traffic Control
- » On Site Construction Support

17. Firm Experience:

Firm name	Ardaman & Associates, Inc.	Discipline(s)*		Geotech	
Project name	I-20 Mississippi River Bridge Review			Firm responsibility (prime or sub?)	Prime
Project number	SP No. H.004646 09-L1049, H.010603.6 13-3720, H.010612.6 20-3729, H.004647.6 22-3746, 22-3753, 24-3707	Owner's name		LADOTD	
Project location	Madison Parish, Louisiana	Owner's Project Manager		Chris Nickel, PE	
Owner's address, phone, email		201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1100 / chris.nickel@la.gov			
Services commenced by this firm (mm/yy)		10/09	Total consultant contract cost (\$1,000's)		\$10,881
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$10,881

Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified. Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses. As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy, and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

Ardaman is currently managing a phase of the project which involves upgrading the entire instrumentation communication system. It also includes gathering and continuously monitoring various types of instrumentation data, inspections of the site and monitoring changes in topography by obtaining periodic survey data.

Key Staff: Robert Jewell, Megan Bourgeois, Jarmon King, Casey Floyd, and Jessica Litt

Project Relevancy: Geotechnical Services



17. Firm Experience:

Firm name	Ardaman & Associates, Inc.		Discipline(s)*		Geotech	
Project name	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)			Firm responsibility (prime or sub?)		Sub
Project number	H.004273.5		Owner's name		LADOTD	
Project location	Lafayette Parish, Louisiana		Owner's Project Manager		Chris Nickel, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1100 / chris.nickel@la.gov				
Services commenced by this firm (mm/yy)		07/15	Total consultant contract cost (\$1,000's)			\$48,668
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$2,736

The overall project includes construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles, 3.5 of which consist of elevated structure. The project includes one three-level directional interchange at Kaliste Saloom Road (majority of interchange on structure); two full diamond interchanges at University/Surrey Street and Willow Street; two single point diamond interchanges at Johnston Street and 2nd/3rd Streets with associated railroad grade separations and arterial cross street studies involved; and various cross street connections at Pinhook Road, Jefferson Street, Mudd/Simcoe Street, Donlon Street, Castille/Martin Luther King Road and several minor streets.

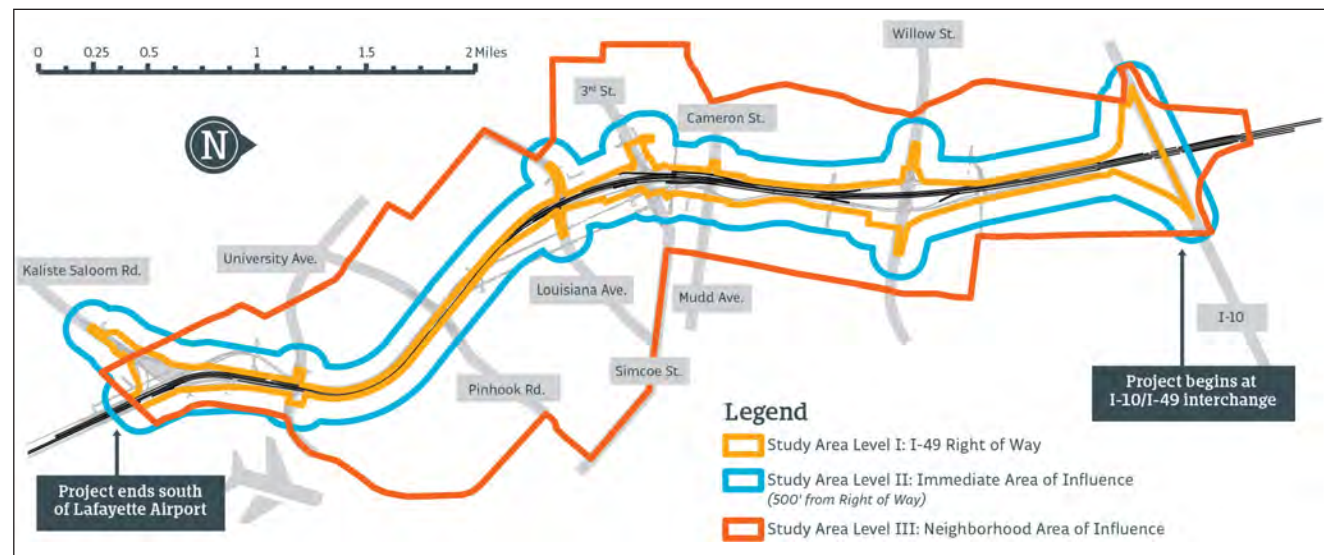
Ardaman previously completed the Phase 1 scope of work consisting of 116 soil borings and associated laboratory testing based on LADOTD standards, and 15 electronic cone penetration tests (ECPT) along the alignment. Ardaman will perform the Phase 2 field investigation as the alternatives are determined and released. Ardaman recently performed 26 deep soil borings and 10 ECPT soundings for the Kaliste-Saloom Interchange portion of the project.

Engineering services included supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile and analyze all the supplied soil boring data provided by LADOTD and the additional borings that were recently performed. The engineering analyses consist of detailed

selection of design reaches and design soil parameters, slope stability and settlement of earth retained structures, deep foundation design, and load testing recommendations. Two preliminary geotechnical data reports were prepared, along with multiple memorandums outlining the design components and a geotechnical interpretation report prepared for the Kaliste-Saloom Interchange.

Key Staff: Robert Jewell, Megan Bourgeois, Jarmon King, Casey Floyd, and Jessica Litt

Project Relevancy: Geotechnical Services



17. Firm Experience:

Firm name	Ardaman & Associates, Inc.	Discipline(s)*		Geotech	
Project name	MRB South GBR: LA 1 to LA 30 Connector			Firm responsibility (prime or sub?)	Prime
Project number	H.013284	Owner's name	LADOTD		
Project location	West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes	Owner's Project Manager	Christina Brignac, PE		
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1937 / christina.brignac@la.gov			
Services commenced by this firm (mm/yy)		07/23	Total consultant contract cost (\$1,000's)		\$6,000
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$713.1

The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings. There are three proposed alignments for this project connecting LA 1 on the west side of the Mississippi River to LA 30 on the east. The three alignments range from approximately 7 miles to 8 miles in length including interchanges at either end.

For this preliminary phase of work, Ardaman performed 18 soil borings, and 23 electronic cone penetration tests (ECPTs) distributed among the three alternative alignments. Six soil borings to a maximum exploration depth of 250 feet below existing ground surface (bgs) were performed in the Mississippi River batture area targeting the proposed bridge foundations on either side of the Mississippi River for each alternative. The remaining 12 soil borings performed to a maximum exploration depth of 150 feet were located along each of the alignments for the high-level approaches and low-level interchanges on either side of the Mississippi River. The ECPTs were performed to maximum exploration depths ranging from 42 feet to 150 feet and were located along the three proposed alignments to supplement the soil borings. Additionally, a total of 31 electrical resistivity (ER) geophysical survey transects were completed to allow for a survey of the stratigraphy between soil investigation locations.

Engineering services include supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.

Key Staff: Robert Jewell, Megan Bourgeois, Jarmon King, Casey Floyd, and Jessica Litt

Project Relevancy: Geotechnical Services



17. Firm Experience:					
Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental
Project name	LADOTD Rural Bridges, Phase I & II			Firm responsibility (prime or sub?)	Sub
Project number	Multiple H No.		Owner's name	LADOTD	
Project location	Statewide, Louisiana (Districts 3, 5, 7, 8, 58, 61, & 62)		Owner's Project Manager	Brian Allen	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA, 225-379-1840, brian.allen@la.gov			
Services commenced by this firm (mm/yy)		08/20	Total consultant contract cost (\$1,000's)		Unknown
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$541.8

ELOS has been contracted as a subconsultant to provide professional environmental consulting services for the LADOTD Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase II is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Most projects have included wetland delineations, permit applications, cultural resource surveys, and threatened and endangered species surveys. ELOS has also assisted in the early planning stages of some of these projects to identify any possible adverse economic, social, or environmental effects or concerns. Projects numbers under this contract include:

» H.013952	» H.013970	» H.014245
» H.013955	» H.013976	» H.014246
» H.013956	» H.013982	» H.014247
» H.013957	» H.013984	» H.014248
» H.013958	» H.013989	» H.014249
» H.013959	» H.013996	» H.014250
» H.013963	» H.013997 (Phase I)	» H.014268
» H.013966	» H.014242	» H.015685 (Phase II)
» H.013968	» H.014243	

ELOS has performed all environmental services according to the Federal Highway Administration (FHWA) standards. Permits have been coordinated through several federal and state agencies, including joint applications to the USACE and the Louisiana Department of Energy and Natural Resources (LDENR) / Office of Coastal Management, Scenic Rivers permits through the

Louisiana Department of Wildlife & Fisheries, and cultural resource surveys in coordination with the Louisiana State Historic Preservation Office. ELOS also has personnel recently trained in the tricolored bat identification and surveys, which have been used for some of these bridge replacement projects.

Key Staff: Lucas Watkins, Brian Fortson, Cory Ricks, Basile Dardar, and Christopher Wilson

Project Relevancy: Environmental and Permitting Services



17. Firm Experience:

Firm name	ELOS Environmental, LLC	Discipline(s)*		Environmental	
Project name	EBR IIJA Off-System Bridge Program			Firm responsibility (prime or sub?)	Sub
Project number	Multiple H No.	Owner's name	LADOTD		
Project location	East Baton Rouge Parish, LA	Owner's Project Manager	Dusty Bastion (HNTB Corporation)		
Owner's address, phone, email		450 Laurel St., Ste. 1200, Baton Rouge, LA 70801; 225-368-2800; dbastion@hntb.com			
Services commenced by this firm (mm/yy)		03/23	Total consultant contract cost (\$1,000's)		\$108
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$87

The East Baton Rouge (EBR) IIJA Off-System Bridge Program is an initiative aimed at replacing or rehabilitating various bridges throughout East Baton Rouge Parish, Louisiana, funded under the Infrastructure Investment and Jobs Act (IIJA). The program aims to improve the safety, reliability, and structural integrity of local bridges, many of which are aging or in need of significant repairs. This program is part of a larger nationwide effort to address critical infrastructure needs, especially in rural and off-system bridge locations that are not part of the primary interstate or state highway systems but are still essential for local connectivity and economic activity. The program focuses on replacing existing bridges with modern slab span bridges, which are often more cost-effective, durable, and easier to maintain compared to traditional bridge designs. These improvements will reduce the risk of bridge closures, enhance traffic flow, and support the local economy by ensuring safe passage for vehicles and pedestrians.

Project Numbers under this contract included:

» H.015547	» H.015545	» H.015552
» H.015548	» H.015550	» H.015553
» H.015544	» H.015341	
» H015549	» H.015551	

ELOS is contracted by HNTB to provide comprehensive wetland delineation and permit application services for the East Baton Rouge Parish (EBR) IIJA Off-System Bridge Program. Our team of experts has conducted thorough field surveys to delineate wetland boundaries across the 13 bridge replacement sites, using advanced techniques to assess soil types, vegetation, and hydrological conditions. We have ensured that all findings are accurately mapped and documented, complying with federal and state regulations using the latest FHWA criteria and standards. Based on our wetland delineation, we have prepared and submitted permit applications to the U.S. Army Corps of Engineers, the Louisiana Department of Environmental Quality, and other

relevant agencies, securing the necessary approvals for the project. Our services have also included an analysis of environmental impact assessments, where we have evaluated potential wetland impacts and developed mitigation plans to compensate for any unavoidable losses. We have engaged with agencies throughout the permitting process, responded to requests for additional information or documentation, and provided ongoing compliance monitoring to ensure environmental protection standards are met during construction.

Key Staff: Lucas Watkins, Brian Fortson, Basile Dardar, and Cory Ricks

Project Relevancy: Environmental and Permitting Services



17. Firm Experience:

Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental	
Project name	EBR IIJA Off-System Bridge Program District 62			Firm responsibility (prime or sub?)		Sub
Project number	H.015429, H.015430, H.015431, H.015432, H.015432, H.015433, and H.015434		Owner's name		LADOTD	
Project location	Tangipahoa Parish, LA		Owner's Project Manager		Greg Sepeda (Sigma)	
Owner's address, phone, email		10305 Airline Hwy, Baton Rouge, LA 70816; (225)810-3100; gsepeda@sigmacg.com				
Services commenced by this firm (mm/yy)		09/22	Total consultant contract cost (\$1,000's)			\$129
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$27

The Off-System Bridge Program, established under the Infrastructure Investment and Jobs Act (IIJA), is a key federal initiative to improve bridges not on the federal-aid highway system. The program is designed to address the needs of local and rural bridges, which often fall outside the primary focus of traditional federal bridge programs. The program is managed at the state level and has \$264 funded specifically for bridge repair, replacement, or rehabilitation. The funds were based on priorities and the overall condition of the bridges.

ELOS is currently contracted for the DOTD IIJA Off-System Bridge Program. This program aimed to replace as many poor condition, off-system bridges as possible by initial screenings of eligible "off-system" structures and create a Preliminary Screening Matrix/Spreadsheet. ELOS conducted appropriate technical and environmental studies and prepared necessary environmental documentation for approval from the Federal Highway Administration (FHWA), in accordance with the provisions of the National Environmental Policy Act (NEPA), FHWA Technical Advisory 6640.8a, and applicable laws, rules, guidance, and regulations. ELOS services encompass a comprehensive range of tasks to ensure compliance with environmental regulations and facilitate the necessary approvals for infrastructure projects. These services include environmental consulting to advise on regulatory requirements, NEPA (National Environmental Policy Act) compliance to assess and mitigate potential environmental impacts, and agency coordination to engage relevant federal, state, and local authorities. Additionally, services involve preparing Section 106 tribal packets for consultation with native American tribes, soliciting views to gather stakeholder input, and conducting detailed studies such as wetland studies, cultural resources studies, and cultural resources surveys to evaluate the impact on natural and cultural resources. Surveys for threatened & endangered species and the preparation of a navigability determination

packet help ensure environmental protections are met. The process also includes the development of an environmental determination checklist and acquiring necessary environmental permits to ensure all legal and regulatory requirements are fulfilled before the project proceeds.

Key Staff: Lucas Watkins, Basile Dardar, Bradley Comeaux, and Christopher Wilson

Project Relevancy: Environmental and Permitting Services



17. Firm Experience:

Firm name	Forte and Tablada, Inc.	Discipline(s)*	Survey
Project name	LA 47 Over Bayou Bienvenue	Firm responsibility (prime or sub?)	Sub
Project number	S.P. No. H.015935	Owner's name	LADOTD c/o HNTB
Project location	Orleans and St. Bernard Parishes, LA	Owner's Project Manager	Dusty Bastion, PE (HNTB)
Owner's address, phone, email	1000 Perkins Rowe, Suite 640, Baton Rouge, Louisiana 70810 / (225) 368-2810 / dbastion@HNTB.com		
Services commenced by this firm (mm/yy)	02/24	Total consultant contract cost (\$1,000's)	\$104
Services completed by this firm (mm/yy)	03/24	Cost of consultant services provided by this firm (\$1,000's)	\$104

Forte and Tablada performed an emergency topographic survey in support of the replacement of the LA 47 Paris Road Bridge over Bayou Bienvenue, located just north of Chalmette, Louisiana. The survey limits extended approximately 1,300 feet along LA 47–500 feet south of the southern bridge abutment to 500 feet north of the northern abutment—and included 500 linear feet of Bayou Bienvenue (250 feet upstream and downstream of the bridge).

Scope of Services: The scope included a full topographic survey capturing:

Surface features required for bridge replacement design:

- » All utilities with depths and drainage structures
- » Finish floor elevations of structures within the survey corridor
- » Limited bridge detail including deck features, pile cap centerline, number of piles, and bottom of stringers
- » Stationary Terrestrial Laser Scanning (TLS) on hard surfaces including roadways and the bridge deck
- » Apparent right-of-way determination based on existing monumentation

All deliverables were completed in accordance with the LADOTD Location and Survey Manual, including point cloud data in E57 and LAS format.

Key Challenge: The biggest challenge faced by the survey team was the aggressive turnaround time required to support an emergency bridge closure. Forte and Tablada deployed multiple field crews and leveraged advanced scanning technologies to meet critical project deadlines without sacrificing quality or accuracy.

Deliverables:

- » Digital Terrain Model (DTM)
- » Topographic CAD files
- » Utility and drainage mapping
- » TLS Point Cloud (E57 and LAS)
- » Apparent right-of-way mapping

Outcome: Despite the urgency, Forte and Tablada delivered all required survey data within 30 days of receiving advanced notice to proceed—months ahead of the official contract execution. The rapid mobilization and delivery enabled the design team to proceed immediately with critical bridge

Key Staff: Bradley Holleman and Ross Wilson

Project Relevancy: Surveying Services



17. Firm Experience:

Firm name	Forte and Tablada, Inc.	Discipline(s)*	Bridge
Project name	Off-System Bridge Replacements - Whittington Road Over Grays Creek		Firm responsibility (prime or sub?) Prime
Project number	H.016166	Owner's name	Livingston Parish
Project location	Livingston Parish, LA	Owner's Project Manager	Sam Digirolamo
Owner's address, phone, email	20399 Government Boulevard, Livingston, Louisiana 70754 / (225) 686-3062 / sdigirolamo@lpgov.com		
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost (\$1,000's)	\$176.2
Services completed by this firm (mm/yy)	12/20	Cost of consultant services provided by this firm (\$1,000's)	\$134.4

Forte and Tablada provided surveying, engineering, and hydraulic analysis services required for the replacement of an aging timber bridge on Whittington Road over Grays Creek in Livingston Parish. The existing timber bridge was replaced with a sixspan concrete slab span bridge. As this road is the only access to dozens of homes and a temporary crossing was not feasible due to site constraints, a temporary access road was constructed to provide access to the residents while the bridge was out of service. This required an agreement between the landowners and the Parish, which was facilitated by Forte and Tablada. This work included the following tasks:

- » Topographic Survey
- » Hydraulic Analysis
- » Civil and Bridge Design & Construction Plans Preparation
- » Wetlands/Environmental Services
- » Property Surveys and ROW Agreements
- » Construction Phase Services

Key Staff: Joffrey Easley and Ross Wilson

Project Relevancy: Surveying Services



17. Firm Experience:

Firm name	Moffatt & Nichol, Inc.	Discipline(s)*		Bridge	
Project name	Underwater Bridge Inspections			Firm responsibility (prime or sub?)	Prime
Project number	H.009730.5 Task Order 2	Owner's name	LADOTD		
Project location	Statewide, Louisiana	Owner's Project Manager	Stephanie Doolittle, PE		
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1329 / stephanie.doolittle@la.gov			
Services commenced by this firm (mm/yy)		06/22	Total consultant contract cost (\$1,000's)		\$2,402
Services completed by this firm (mm/yy)		08/25	Cost of consultant services provided by this firm (\$1,000's)		\$1,419

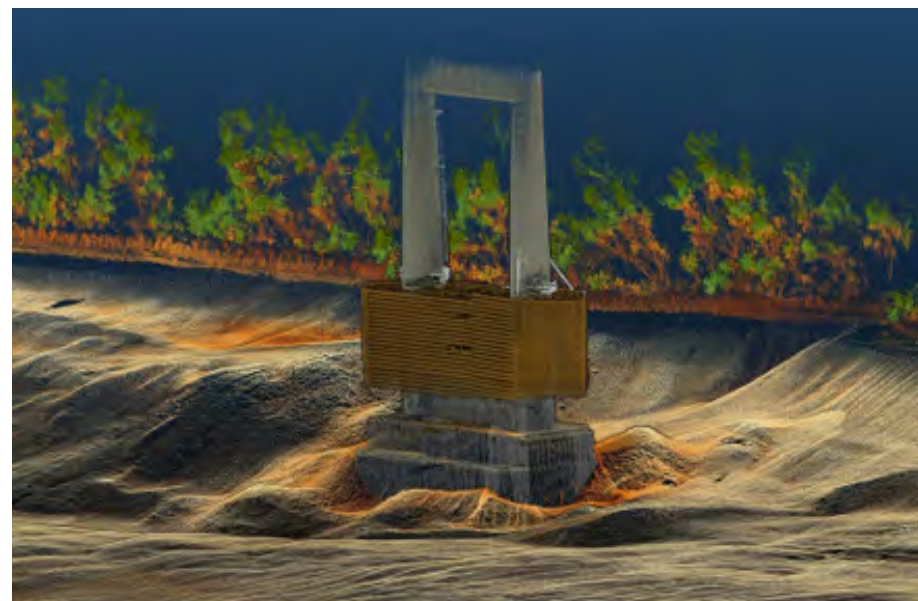
As part of a five-year retainer contract, Moffatt & Nichol has been tasked with performing underwater bridge inspections for over 500 bridges throughout the state of Louisiana through Task Order 2 and over 800 bridges across all three TOs on this contract. The bridges consist of small to mid-sized waterways along with nine bridges passing through large swamps and bayous that vary between 3 and 14 miles long, 15 culverts, and four bridges crossing over large waterways (the Mississippi River, Prien Lake, and Whiskey Bay Channel). Many of the bridges crossed over waterways inhabited by alligators, which posed a potential hazard to the inspectors. To mitigate the probability of an incident, Moffatt & Nichol implemented a Louisiana Department of Wildlife and Fisheries-approved nuisance alligator trapper during inspections at specific locations. Moffatt & Nichol has safely performed Level I, II, and III underwater dive inspections and emergency damage assessments while augmenting 2D and 3D SONAR technologies per the National Bridge Inspection Standards.

The Moffatt & Nichol dive team captures images and bathymetric data utilizing high-resolution side scan SONAR units and multibeam sonar technology. High-resolution images and point cloud data of bridge piers/bents are collected to identify channel bottom conditions and structural deterioration. Underwater Acoustic Imaging (UAI) services were provided over large navigable waterways with high-risk diving conditions such as fast currents, low visibility, heavy debris, extreme depths, cold water, and vessel traffic.

Scour evaluations (inherent to underwater bridge inspections) are vital to the inspection and report process. All inspector-divers are trained to observe soundings near submerged substructure units, channel migration/alignment, bank erosion, channel bed material, condition of scour protection structures and channel training devices, flow velocity, timber debris quantity and location, major changes in watershed and hydraulic capacities from upstream development and construction; and to review all conditions in real-time on site to establish a rate of scour and erosion for effective prioritization of repairs and development of scour plan of actions for monitoring.

Key Staff: Chace Hulon, Bryan Tyson, Jeffrey Gazarek, and Christopher Eschenbach

Project Relevancy: NBIS Underwater Bridge; Inspection and Reporting; Underwater Acoustic Imaging and Hydrographic Surveying; NBE and SNBI Ratings; InspectX Submittals; High-Risk Diving Operations and Hazardous Wildlife; Emergency Response; TTC and Work Zone Safety



17. Firm Experience:

Firm name	Moffatt & Nichol, Inc.	Discipline(s)*		Bridge	
Project name	LADOTD Complex Bridge Inspection			Firm responsibility (prime or sub?)	Sub (to HNTB)
Project number	H.009730.5, Task Order 03		Owner's name	LADOTD	
Project location	Statewide, Louisiana		Owner's Project Manager	Stephanie Doolittle, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1329 / stephanie.doolittle@la.gov			
Services commenced by this firm (mm/yy)		02/23	Total consultant contract cost (\$1,000's)		\$470
Services completed by this firm (mm/yy)		12/24	Cost of consultant services provided by this firm (\$1,000's)		\$260

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

Moffatt & Nichol developed major updates to the manual, including off-system directives, to support the creation of a new Bridge Load Rating Manual and a new Coding & Field Guide. A team of subject matter experts contributed to the development and reviews at periodic milestones. Moffatt & Nichol collaborated with the LADOTD staff throughout the development to manage expectations and maintain direction. In-person progress meetings occurred monthly, which included facilitating various District Bridge Engineers throughout the state. The manual is compliant with the NBIP (23 metrics and the three new metrics). The manual is thoughtfully organized systematically and interactively, with an appendix to store all vital updated forms

for the Bridge Inspection Program. The Load Rating Manual will be the final development task and complement the other documents in content and format. The Coding & Field Guide is uniquely designed for a seamless navigation experience. Following delivery, acceptance, and publishing, a training module will be designed and delivered to all LDOTD District personnel. Moffatt & Nichol has been retained for five years to provide annual updates as needed.

Key Staff: Chace Hulon, Bryan Tyson, Chip Eschenbach, and Jeffrey Gazarek

Project Relevancy: BIM; Underwater Bridge Inspection and Assessment; Acoustic Imaging; Hydrographic Surveying; NBE and SNBI Ratings; TTC and Work Zone Safety



17. Firm Experience:

Firm name	Vectura Consulting Services, LLC	Discipline(s)*		Traffic	
Project name	I-20 LA 544 Overpass Replacement			Firm responsibility (prime or sub?)	Sub
Project number	H.010616	Owner's name	LADOTD		
Project location	Ruston, Lincoln Parish, Louisiana	Owner's Project Manager	Jacob Fusilier, PE		
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1185 / jacob.fusilier@la.gov			
Services commenced by this firm (mm/yy)		04/23	Total consultant contract cost (\$1,000's)		Unknown
Services completed by this firm (mm/yy)		10/23	Cost of consultant services provided by this firm (\$1,000's)		\$131

Vectura performed a Level 2 TMP that included the following activities:

- » Preliminary and final traffic studies
- » Temporary and final traffic signal plans
- » TMP:
 - Safety strategy that included a CAT Scan
 - LOS determination utilizing Citrix data
 - Lane closure recommendations based on a queue analysis
 - Cost estimate
 - Public information strategies

Key Staff: Laurence Lambert, Brin Ferlito, Reece Rodrigue, and Kristen Farrington

Project Relevancy: Traffic Services



17. Firm Experience:

Firm name	Vectura Consulting Services, LLC	Discipline(s)*		Traffic & CEI/OV	
Project name	Belle Chasse Bridge & Tunnel Replacement PPP			Firm responsibility (prime or sub?)	Sub
Project number	H.004791	Owner's name	LADOTD		
Project location	Belle Chasse, Louisiana	Owner's Project Manager	Nickolas Olivier, PE		
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1133, Nicholas.olivier@la.gov			
Services commenced by this firm (mm/yy)		04/19	Total consultant contract cost (\$1,000's)		Unknown
Services completed by this firm (mm/yy)		Current	Cost of consultant services provided by this firm (\$1,000's)		\$211

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

Key Staff: Laurence Lambert, Brin Ferlito, and Reece Rodrigue

Project Relevancy: Traffic Services



17. Firm Experience:

Firm name	Wiss, Janney, Elstner Associates, Inc.	Discipline(s)*		Bridge	
Project name	Danziger Lift Bridge Repair			Firm responsibility (prime or sub?)	Prime/Sub
Project number	Contract 4400009424, H.000303.6; 44-21594, H.000303.6; 44-23923, H.014283.5	Owner's name		LADOTD	
Project location	New Orleans, Louisiana	Owner's Project Manager		Mark Bucci, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, Louisiana 70802 / (225) 379-1076 / mark.bucci@la.gov			
Services commenced by this firm (mm/yy)		07/19	Total consultant contract cost (\$1,000's)		
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		

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 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.

- » Repairs to the air buffer system to eliminate excessive demands on the span drive system when seating the bridge.
- » Inspection of trunnion bearings and installation of automated acoustic monitoring system to assess bearing performance until scheduled replacements are required.
- » Preparation of rehabilitation cost estimates.
- » Mechanical, electrical, and overlay design preparation

Key Staff: J. McGormley, S. Lauer, J. Williams, G. Rees, Yang Zheng, Caleb Bennett, and Stephen Foster

Project Relevancy: Bridge Non-Destructive Testing



17. Firm Experience:

Firm name	Wiss, Janney, Elstner Associates, Inc.	Discipline(s)*		Bridge	
Project name	LA 70 Sunshine Bridge over the Mississippi River, Vertical Member Failure			Firm responsibility (prime or sub?)	Sub
Project number	H.015228.5	Owner's name	LADOTD		
Project location	St. James Parish, LA, Louisiana	Owner's Project Manager	Chris Guidry		
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1076, Mark.Bucci@la.gov			
Services commenced by this firm (mm/yy)		08/22	Total consultant contract cost (\$1,000's)		\$193
Services completed by this firm (mm/yy)		06/25	Cost of consultant services provided by this firm (\$1,000's)		\$193

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. The bridge is a continuous five-span riveted steel through truss comprised of 83 panel points, with a vertical member at each panel point. In August 2022, during a routine inspection of the Sunshine Bridge by the LADOTD, two fractured angles comprising the flange of Vertical Member L37-U37N were observed at the upper U37N connection. The cracks occurred at the same elevation and were aligned with the bottom of the gusset plate. Due to the cracks, the westbound right lane on the bridge was closed to traffic. Based on an initial structural evaluation of the fractures by WJE, it was estimated that approximately 60 percent of the member capacity remained. Thus, the bridge was allowed to remain open; however, no permitted loads or vehicles requiring a permit from the LADOTD were allowed to use the bridge during the lane closure.

WJE performed a structural investigation and developed emergency repairs to address the partial fracture. Within two days of the finding, WJE engineers prepared a preliminary repair design with the 1-inch thick A709 Grade 50 plate procured, cut, drilled, and primed by the following week. WJE then installed the splice plate and carefully removed samples from the two fractured angles, which were sent to WJE's laboratory for metallurgical evaluation. Fracture of member U37N was the result of section loss of the material on the north face that created a surface geometry that introduced stress concentrations and subsequent cracking. This localized deterioration involved pre-existing corrosion, geometric distortion from pack rust, and cumulative fatigue damage.

To evaluate the significance of the fracture findings on the remaining vertical members, WJE installed and monitored sensors for six months at the three north truss vertical members L37'-U37'N, L39'-U39'N, and U39'-U39N. The monitoring data from the geometrically mirrored member, U37'N, particularly at the west outboard flange, revealed several similar conditions consistent with those that preceded the U37N failure. Fatigue analysis confirmed significantly

higher effective stress ranges at U37'N West Outboard—up to 4.5 ksi—compared to the 1.2 to 1.3 ksi ranges typical at other members. Although still below the constant amplitude fatigue limit for Category A details (24 ksi), the effects of section loss are apparent and will continue to increase. Environmental effects, including thermal cycling and wind-induced oscillations, further demonstrated that members with section loss such as U37'N may be more susceptible to stress amplification under vortex shedding. Recommendations to the LADOTD included repairing U37'N with a similar repair as for U37N, reinspecting the vertical members and installing repairs where section loss is observed, and updating NSTM inspection procedures to include documenting future section loss at these connections.

Key Staff: Jonathan C. McGormley

Project Relevancy: Bridge Inspections, Non-destructive Testing



17. Firm Experience:

Firm name	KGC Environmental Services, Inc.	Discipline(s)*	CE&I/OV
Project name	US 90 Atchafalaya River Bridge Rehabilitation		Firm responsibility (prime or sub?) Sub
Project number	H.011494	Owner's name	LADOTD
Project location	Morgan City, Louisiana	Owner's Project Manager	Nicholaus Ray
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802-4438 / (337) 278-5340 / Nicholaus.Ray@la.gov		
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost (\$1,000's)	\$1,230
Services completed by this firm (mm/yy)	10/22	Cost of consultant services provided by this firm (\$1,000's)	\$1,230

The project consisted of the cleaning and painting of the US 90 Atchafalaya River Bridge main span. 100% of the work was completed and performed by KGC Louisiana office.

KGC's scope was very similar to this RFP:

- » Air monitoring
- » Soil and Water Sampling

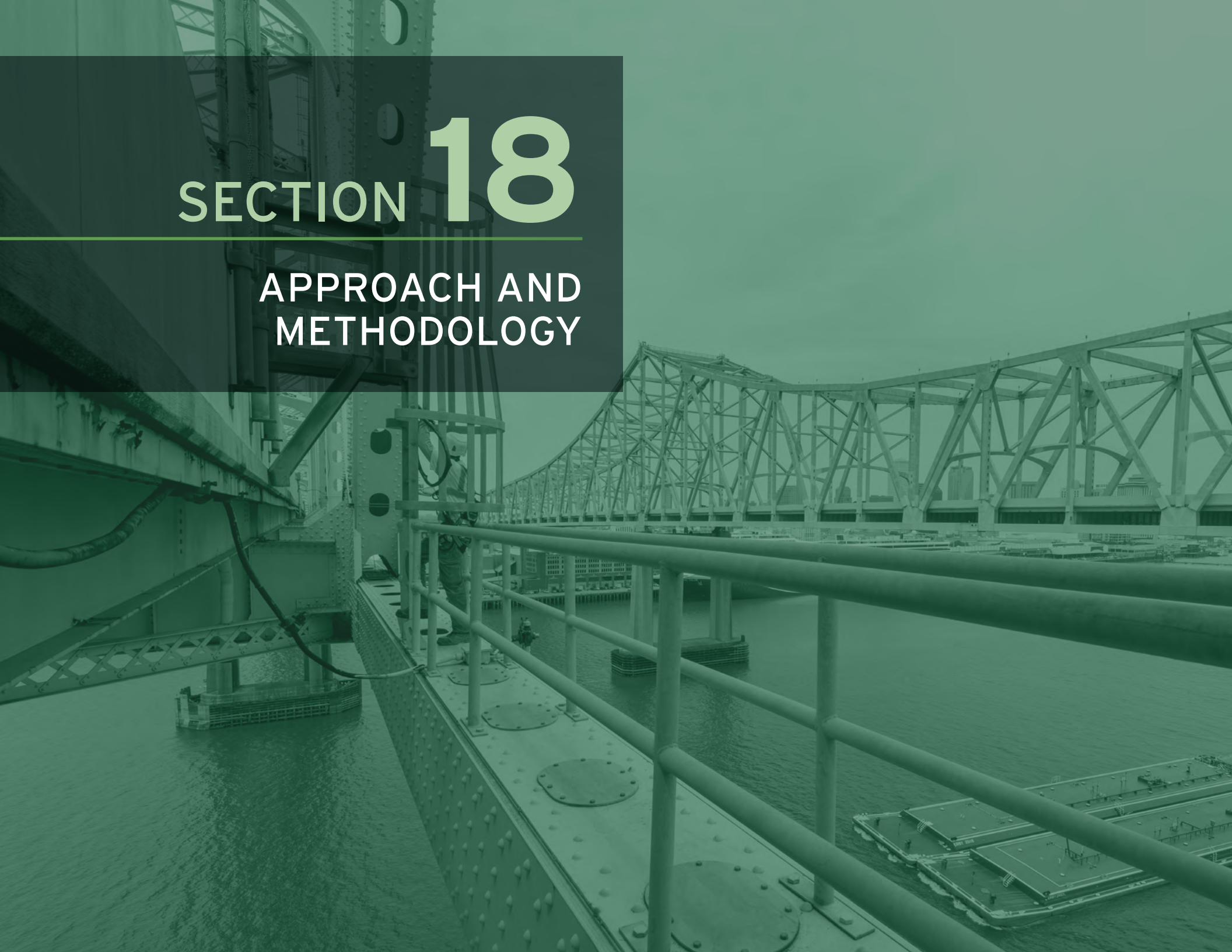
Key Staff: Kevin Guth

Project Relevancy: Testing, Sampling



SECTION 18

APPROACH AND METHODOLOGY



18. Approach and Methodology:

Introduction & Project Understanding

HNTB brings unparalleled experience delivering LADOTD Bridge Preservation Services contracts. Through four bridge preservation contracts since 2011, including the successful delivery of 91 task orders, HNTB has gained a comprehensive understanding of the project scoping needs and how LADOTD utilizes the Bridge Preservation Services contract. This experience allows HNTB to efficiently contract, manage, and deliver multiple concurrent task orders on schedule to LADOTD's expectations. HNTB is eager to continue supporting the LADOTD's Bridge Department in their mission by producing safe, high-quality, practical, and innovative structural, mechanical, and electrical designs.

Our highly skilled professionals, combined with a proven track record in delivering projects critical to Louisiana's transportation infrastructure, form a full-service team of local staff supported by national expertise. We bring recent, relevant experience to effectively manage and deliver projects of all magnitudes to the high standards of the LADOTD. This approach is informed by 60+ years of successful and relevant partnership with the LADOTD.

Past Retainer History

18	31	22	22
TASK ORDERS	TASK ORDERS	TASK ORDERS	TASK ORDERS
2 Bridge Designs	8 Bridge Designs	8 Bridge Designs	8 Bridge Designs
8 Rehabs	5 Rehabs	6 Rehabs	4 Rehabs
1 CRES	11 CRES	4 CRES	6 CRES
2 Lighting / Electrical	2 Feasibility	2 Feasibility	1 Feasibility
2 Instrument Testing	2 Instrument Testing	2 Electrical	1 Lighting / Electrical
3 Other			
2011	2015	2020	2022

The HNTB Team

As the prime consultant, HNTB brings a wealth of knowledge and expertise in bridge preservation and technical services in all stages of the project life cycle. Supported by a deep bench of HNTB national resources, our extensive experience in bridge replacement, rehabilitation, and repair projects allows us to offer practical, economical, and constructable solutions. To complement our bridge design services, we have engaged a team of highly specialized subconsultants, each recognized as an expert in their discipline in Louisiana, to deliver comprehensive professional and technical solutions.

TEAM STRUCTURE

Our team structure provides depth in road design, geotechnical engineering, and environmental services as reflected in our organizational chart, allowing us to efficiently staff and deliver multiple task orders at once while maintaining high standards of technical excellence. **This flexibility ensures LADOTD benefits from a team with the ability to properly staff for each task order based on required skill sets, robust staffing for multiple concurrent task orders, and streamlined delivery for smaller assignments.**

- **HNTB Corporation:** Bridge Engineerings Services, Bridge Inspection Services, Roadway, Geotechnical Design, Environmental
- **Ardaman & Associates:** Geotechnical Services
- **Coastal Environments:** Environmental & Permitting Services
- **ELOS Environmental:** Environmental & Permitting Services
- **Forte and Tablada:** Surveying Services
- **Gulf South Land Title Resources:** Property Title Work
- **KGC Environmental Services:** Painting/Coating, Testing, Sampling
- **Moffatt & Nichol:** Underwater Bridge Inspection
- **Vectura Consulting Services:** Traffic Services
- **Wiss, Janney, Elstner Associates:** Bridge Non-Destructive Testing

Task Order Management

HNTB recognizes the importance of building the best team for each task order that is issued through the Bridge Preservation IDIQ. It is imperative that individuals with the appropriate skill sets be brought in during the task order development process to define the scope accurately and efficiently. Project Manager, **Josh Porter, PE**, will work with the LADOTD project manager at the initiation of each task order to identify the correct task order manager and engage with the proper subconsultants to prepare for project scoping and staffing. Josh is the project manager of HNTB's current IDIQ Contract for Bridge Preservation Services and has extensive experience in multi-discipline project management and task order management, as well as bridge design, rehabilitation, repair, load rating, inspection, and plan production. Understanding that multiple task orders will be active concurrently at any given time, HNTB has structured our team with four additional task order managers in addition to Josh to support project scoping and delivery at the task order level. HNTB will manage task orders through a collaborative leadership team consisting of **Josh Porter, Marc Hoffmann, Mark Elkassouf, Patrick Duffy, and Mike Perault**. Each has served as task order managers and lead designers on previous Bridge Preservation IDIQs, bringing extensive experience and institutional knowledge to every assignment.

This team of task order managers will work closely with LADOTD to scope each task order accurately and efficiently, ensuring the right technical experts are engaged from the outset. Their familiarity with LADOTD's expectations and internal processes allows for seamless coordination and delivery.

Utilizing multiple task order managers allows the HNTB team to develop and execute multiple task orders in tandem. Below illustrates the typical task order development stages:

- » Initial Contact
- » Task Identification/Task Order Manager Identification
- » Scoping Meeting/Contract Development
- » Issuance of Task Order

HNTB's current LADOTD workload demonstrates a structured, sustainable delivery model aligned with this contract. This proposed team was selected for preservation expertise and confirmed availability, with Baton Rouge-based task order managers, discipline leads, and consistent subconsultants. The Calcasieu River Bridge OV effort is separately staffed, avoiding resource conflicts. All active task orders under our current bridge preservation contract end in September 2027.

TASK ORDER MANAGER RESPONSIVENESS

HNTB's approach provides DOTD with immediate, reliable access to project information through dedicated task order managers. Each task order is assigned a task order manager—rather than relying on a single contract manager—ensuring focused oversight, continuous awareness of scope and schedule, and a single point of contact fully engaged in day-to-day execution. Because the task order manager is directly integrated with discipline leads and subconsultants, they can provide real-time status updates without waiting on layered coordination. Distributing task orders across multiple task order managers provides dedicated task order service, maintaining quality, and ensuring DOTD consistently receives fast and accurate communication.

Bridge Design Services

BRIDGE ENGINEERING SERVICES: HNTB will provide comprehensive bridge engineering services for both fixed and movable structures, addressing the full spectrum of project types including new bridges, replacements, rehabilitations, preventive maintenance, and repairs. Our approach is grounded in LADOTD's Bridge Design and Evaluation Manual (BDEM), Bridge Design Technical Memoranda, Engineering Directives and Standards Manuals (EDSMs), and Standard Specifications for Roads and Bridges, ensuring all deliverables meet LADOTD expectations.

NEW BRIDGES AND REPLACEMENTS: For new and replacement bridges, HNTB will begin with reviewing all existing relevant project information including geotechnical investigations, hydraulic memo, traffic analysis, collection of survey data, existing inspection reports, load ratings, and as-builts. We will develop design criteria in accordance with Appendix A - Design Criteria

Checklist of the BDEM and submit for LADOTD approval. We will evaluate site constraints, span requirements, and constructability to select the optimal bridge type. All designs will use AASHTO LRFD Bridge Design Specifications and BDEM criteria for all applicable loads. All components will be sized and detailed to meet strength, service, and durability requirements. Bridge geometry (alignment, profile, cross-section) will be developed to ensure safe roadway transitions and adequate clearances. Movable bridges will be compliant with BDEM Vol 2 - Movable Bridge Design, with additional structural design checks relative to unique loading situations such as increased dynamic loading, mechanical facilities induced loading, and operator housing.

BRIDGE REHABILITATION AND REPAIR: When preparing design and plans for bridge rehabilitation, it is critical to follow the guidelines in BDEM Part I Chapter 6 - Design Policy for Bridge Rehabilitation/Repair Projects. This includes reviewing all existing project documents, performing a field investigation of the existing bridge, evaluating the load carrying capacity of the existing structure, and then determining the proposed scope for rehabilitation.

Rehabilitation services often require an approach that is all encompassing to improve the bridge's condition and load carrying capacity. For a truss, this may include strengthening or replacing members, painting all structural steel, replacing false chord expansion members, replacing rivets and bolts, and other repairs. In addition, electrical tasks including navigation lighting replacement, wiring and conduit replacements, and access platform installation may be necessary. For bridges experiencing maintenance issues, solutions may include replacing bearing pads, backwalls, approach slabs, anchor bolts, joint seals, structural concrete patching, or placing an epoxy-urethane overlay.

For repair projects, a localized approach is needed to repair damaged elements that result in a load posting or reduced load carrying capacity. These may include heat straightening, addition of cover plates, strand splicing, or carbon fiber reinforced polymer (CFRP) wrapping.

Both rehabilitation and repair projects benefit from accelerated bridge construction options and coordinated phased construction techniques to minimize traffic impacts.

BRIDGE LOAD RATING: HNTB's bridge load rating services begin with a review of all available bridge documentation, including as-builts, shop drawings, prior load ratings, inspection reports, and any records of repairs or modifications.

Using AASHTOWare Bridge Rating (BrR), LEAP Bridge Concrete, and STAAD we develop structural models to analyze load effects, including legal and emergency vehicles. All ratings and deliverables are in accordance with AASHTO LRFD, the AASHTO Manual for Bridge Evaluation, and the LADOTD BDEM Vol. 5 Section 6 (Load Rating). Ratings are performed for as-designed, as-built, and condition based scenarios.

PEER REVIEW: Our team of peer reviewers are licensed professional engineers with substantial experience in the design of similar projects. Our team will submit peer review comments to LADOTD and the design team for evaluation.

A Peer Review Resolution Agreement will be signed by the peer reviewer, designer, and a LADOTD representative. A comment resolution form tracking all comments, the respective parties, and final actions, will be submitted.

CONSTRUCTION ENGINEERING SUPPORT: To support project construction activities, the HNTB team will conduct construction drawing reviews and respond to RFIs in accordance with the BDEM, Road Design Manual, and Louisiana Standard Specifications for Roads & Bridges. The review of value engineering proposals will be conducted in accordance with the LADOTD Design Build Manual, FHWA requirements, and LADOTD EDSMs.

SAMPLING, INSTRUMENTATION, AND NON-DESTRUCTIVE TESTING (NDT): **Wiss, Janney, Elstner Associates, Inc.** will perform instrumentation and NDT. **KGC Environmental Services, Inc.** will lead all painting/coating testing and sampling.

All sampling, instrumentation, and NDT will be performed by experienced technicians and engineers, with results documented. Findings are summarized in clear, actionable reports, supporting LADOTD's asset management, maintenance, and safety objectives.

Bridge / Structural Inspection Services

HNTB provides comprehensive inspection and evaluation services for existing bridges and other structures, using NBIS-certified teams and advanced access techniques. All inspections are performed in accordance with FHWA, AASHTO, and LADOTD standards, including the Bridge Inspection Manual (BIM) and Manual for Bridge Evaluation (MBE). Our approach includes:

- » Hands-on, element-level inspections with minimal traffic disruption.
- » Specialized testing (NDT, coatings, LiDAR, sonar) as needed.
- » Underwater inspection services to be provided by **Moffatt & Nichol Inc.** in accordance with FHWA Underwater Bridge Inspection Reference Manual.
- » Clear, actionable reports delivered via LADOTD's InspectX system.

Our team has a proven record of delivering timely, high-quality inspection reports for LADOTD, supporting asset management and preservation goals statewide.

Geotechnical Services

The HNTB team will provide geotechnical services necessary to perform geotechnical investigations, analysis and design. Design and analysis efforts will be completed by HNTB and Ardaman & Associates, Inc., while geotechnical investigations will be led by **Ardaman & Associates, Inc.** Geotechnical field investigations (deep and shallow borings, CPTs, etc.) will be performed in accordance with ASTM standards, LADOTD Driven Pile Design & Verification using AASHTO LRFD Bridge Design Specifications, and FHWA-IF-02-034 GEC 5. Geotechnical analysis and design will be performed using SEEQUENT Geostudio 2023.1.1, Ensoft APILE 2019, Ensoft SHAFT 2023, Ensoft LPILE 2022, and Rocscience Settle3 and in accordance with the LRFD Bridge Design

Specifications and FHWA Geotechnical Engineering Circulars. PDA monitoring and analysis will be provided for specific projects in conjunction with our construction support team.

Road Design, Hydraulics, and Traffic Services

Road design efforts will be led by HNTB in accordance with the LADOTD Roadway Design Procedures and Details, the LADOTD EDSMs, AASHTO Policy on Geometric Design of Highways and Streets, and AASHTO Roadside Design Guidelines. Roadway design will be completed with the use of OpenRoads.

HNTB has proven its ability to deliver task orders that include roadway work, including US 80 bridges near Minden and Larto Lake projects, with a comprehensive understanding of the project deliverable milestones and integration across disciplines. Roadway is critical to the success of the project by ensuring DOTD requirements are met and time critical tasks are identified, including limiting ROW acquisition and utility relocations.

Hydraulic analysis and design will be led by HNTB. The proposed structure type, size, and location will be designed to minimize the hydraulic impact at the structure location. The complete HEC-RAS analysis, along with a Final Hydraulic Analysis Report, will be submitted to LADOTD. The proposed structure will be analyzed in accordance with the LADOTD Hydraulics Manual, BDEM, and LADOTD Hydraulic Design Guidelines Off-System Bridge Program.

Traffic services will be led by **Vectura Consulting Services, LLC**. All traffic data collection will be performed in accordance with the LADOTD Traffic Engineering Manual, the FHWA Traffic Monitoring Guide, the Highway Capacity Manual, and the MUTCD. TranPLAN, TransCAD, CORSIM, and VISSIM will be utilized to develop and utilize traffic models to inform and justify project solutions through the TMP.

Surveying and Title Work Services

The HNTB team is equipped to deliver all surveying services necessary to provide project design information and support right-of-way acquisition by performing boundary, topographic and bathymetric surveying, and developing drainage maps. All survey services will be led by **Forte and Tablada, Inc.** For property title work, **Gulf South Land Title Resources, LLC** will be utilized. Topographic surveys will adhere to LADOTD standards, while also utilizing LiDAR methods for busy roadways. Final deliverables will comply with LADOTD's topographic survey requirements will be submitted in OpenRoads format.

Environmental and Permitting Services

Environmental and permitting services will be a collaborative effort of HNTB, **ELOS Environmental, LLC** and **Coastal Environments, Inc.** This ensures that LADOTD has a team assembled that can address any environmental issues that may arise at any given site or condition. These include CUP, wetland permits, Section 10 permits, Water Quality Certification, Scenic Stream permits, bridge permits, and levee permits. We coordinate closely with LADOTD and regulatory

agencies to prepare and submit environmental documentation, and track mitigation commitments.

Project Delivery

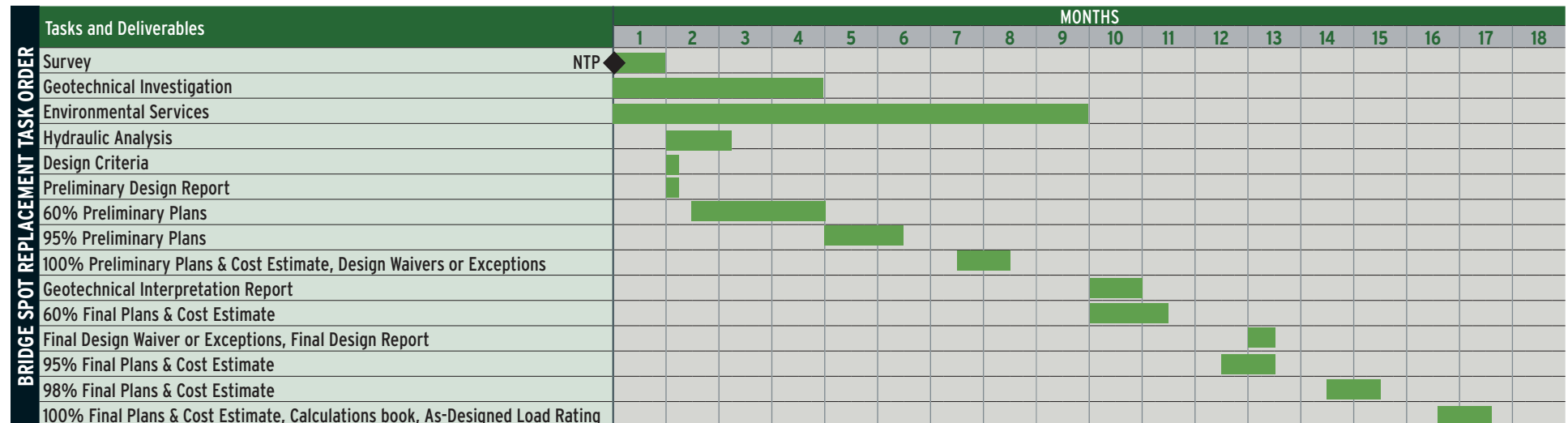
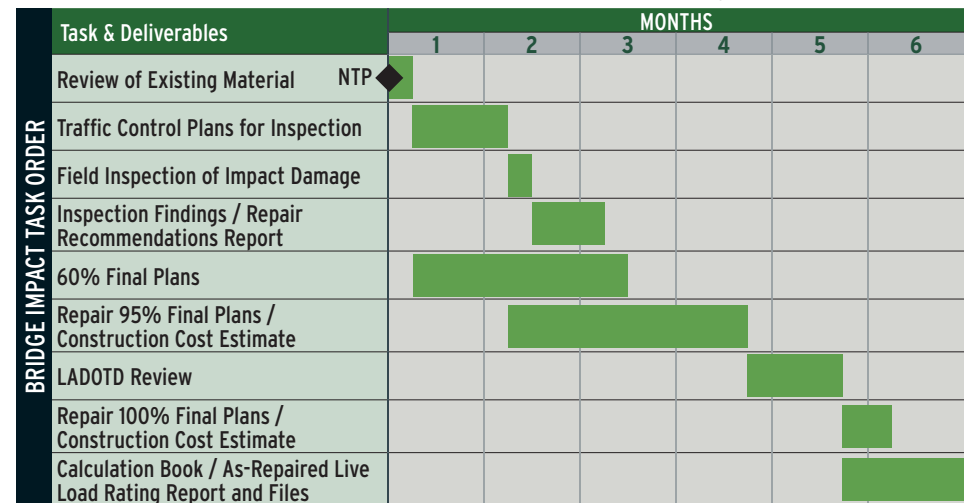
HNTB has successfully delivered LADOTD projects with varying project schedules and deliverable milestones, ensuring letting schedules on all projects are maintained. HNTB understands that all projects are developed to different stages before task orders are executed, and the HNTB Team is structured to progress projects to final completion regardless of the initial project development. HNTB uniquely understands the documents and designs required at each submittal stage.

The two schedules shown showcase how HNTB successfully delivered both an emergency repair and a bridge replacement project for LADOTD.

Emergency projects require aggressive schedules. HNTB has experience working with LADOTD to eliminate plan delivery milestones to deliver final plans in an expedited time frame. Risks are mitigated through proactive collaboration with LADOTD discipline leads to deliver final plans in six months. This is achieved by performing a timely site-assessment inspection and providing repair recommendations. In an emergency project, 60% Final Plans showcase key details, construction phasing, and traffic control plans allowing development of a construction cost estimate. 95% Final Plans, fully developed and constructable plans, are submitted for final review by LADOTD. A 95% Plan meeting is held followed by submittal of the 100% Final Plans.

Bridge replacement projects require progressing through both Preliminary and Final plan stages. This requires a multi-disciplined effort spanning 18 months. Through the Preliminary phase of the project, disciplines such as Survey, Geotechnical Investigations, Environmental, Hydraulics, and Roadway are heavily engaged and running concurrently, making interdisciplinary

communication and alignment imperative. HNTB understands key interdisciplinary interface points like, ensuring that all General Plan and Elevation sheets are complete at the 60% Preliminary stage ensures that Environmental has accurate information to use in the submittal of all the Environmental checklists and reports. Providing a finalized roadway plan set at the 95% Preliminary stage ensures a productive Plan-In-Hand meeting, solidifying ROW taking and utility impacts. For Bridge, finalizing Foundation Layouts, General Plan and Elevations, and Construction Phasing during the Preliminary stage minimizes changes in Final Plans for all disciplines. During Final Plans, the Bridge effort ramps up to ensure a complete and constructable plan set and cost estimate at the 95% Final Plan stage. This ensures 100% Final Plans are delivered shortly after the 95% Final Plan meeting.



SECTION 19

WORKLOAD



19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
HNTB Corporation Note: The individuals shown in the organization chart were selected based on relevant expertise and availability to support LADOTD under this contract. HNTB's Calcasieu River Bridge OV project is staffed by a separate full-time team; those personnel are not shown in this organization chart and are not part of the proposed team for this contract. All active task orders under our current bridge preservation contract (44-24189) end in September 2027.	Bridge	44-24189; H.010319.5	Task Order 1- I-110 North St Plank Rd	\$533,854
	Bridge	H.12899.6	Task Order 2- I-20 Rehab CRES	\$61,619
	Bridge	44-24189; H.012622.5	Task Order 5- I-12: Hog Branch Bridge Replacement	\$2,098
	Bridge	44-24189; H.002337.5	Task Order 6 - Bayou Fountain	\$1,409
	Bridge	44-24189; H.015935.6	Task Order 7 - Bayou Bienvenue CRES	\$26,104
	Bridge	44-24189; H.014059.5	Task Order 8 - US 80 Bridges over Minden	\$104,351
	Bridge	44-24189; H.015911	Task Order 9 - Grover Jones Rd over Williams Creek	\$117,359
	Bridge	44-24189; H.016276	Task Order 10 - Sidney Leblanc Rd over Coulee	\$123,299
	Bridge	44-24189; H.012083.6	Task Order 13- Calcasieu Bridge Repairs CRES	\$126,013
	Bridge	44-24189; H.016475.5	Task Order 14- US90: GNO No. 2 Bridge Repair	\$154,949
	Bridge	44-24189; H.016481.5	Task Order 15- LA124: Larto Lake Bridge and Grade Raising	\$120,974
	Bridge	44-24189; H.016417.5	Task Order 16- I-12: Median Barrier Retrofit	\$143,381
	Bridge	44-24189; H.014591.5	Task Order 17- I-12 US 61 Bridges Girder Repairs	\$58,210
	Bridge	44-25029	IIJA Off-System Bridge Program	\$11,886
	Bridge	44-23512; H.009730.5	Task Order 3 - BIM Updates and Load Rating	\$124,584
	Bridge	44-23512; H.009730.5	Task Order 9 - GNO #2, I-10 Calcasieu Inspection	\$44,751
	Bridge	44-23512; H.009730.5	Task Order 10 - Statewide In-Depth Bridge Inspection	\$431,888
	Bridge	44-4900; H.008145.6	LA 1 Phase 2	\$137,427
	Bridge	44-21594; H.009859.5	2020 Complex Bridge Rating Services	\$33,374
	Bridge	44-21594; H.009859.5	On-System Bridges Rating and Evaluation	\$7,619
	Bridge	44-28432; H.015569.5	LA 44 I-10 Roundabout	\$6,823
	Bridge	44-28432; H.015569.5	Statewide In-Depth Bridge Inspection	\$1,604,387
	Bridge	44-28432; H.015569.5	TO2- Audubon, GNO1, GNO2	\$6,733
	Bridge	44-29195; H.016246.5	LA324 Over Bayou Teche	\$250,233
	CE&I/OV	44-29195; H.016494.6	Bridge Bundle OV	\$717,812
	CE&I/OV	44-23074; H.010960	LA 30 Roundabout @ Tanger Mall	\$102,048
	CE&I/OV	44-27349; H.003931.6	Calcasieu River Bridge OV	\$29,128,251
	Environmental	44-26365; H.015223	BR to NO Passenger Rail Corridor Environmental Study	\$182,450

19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
HNTB Corporation	Geotech	44-4900; H.008145.6	LA 1 Phase 2	\$3,969,787
	ITS	44-25921; H.015938.1	TSMO Strategic Plan	\$23,310
	Other (Hydraulics)	44-24189; H.010319.5	Task Order 1- I-110 North St Plank Rd	\$336,764
	Other (Hydraulics)	44-24189; H.010251.1	Task Order 3- Chippewa PH2	\$48,700
	Other (Hydraulics)	44-29195; H.016246.5	LA324 Over Bayou Teche	\$93,307
	Other (Tolling)	44-23640; H.015135.6	Task Order No. 3 - LA1 Facility Implementation	\$14,265
	Other (Tolling)	44-23640; H.015135.6	Task Order No. 6 - Toll Services	\$1,811,100
	Other (Tolling)	44-23640; H.015135.6	Task Order No. 11	\$360,211
	Other (Weigh Stations)	44-23812; H.015377.1	Task Order 2	\$890,843
	Other (Weigh Stations)	44-23812; H.015377.1	Task Order 3	\$94,776
	Other (Weigh Stations)	44-23812; H.015377.1	Task Order 4	\$852,051
	Planning	44-27876; H.15223.1	Intercity Rail Program	\$3,918,292
	Planning	44-27876; H.15223.1	SA1- CID Step 1	\$123,047
	Planning	44-21094	Update Statewide Transportation Plan	\$342,930
	Planning	44-21094	I-12 Corridor Masterplan	\$851,953
	Road	44-24189; H.010319.5	Task Order 1- I-110 North St Plank Rd	\$551,316
	Road	44-24189; H.015935.6	Task Order 7 - Bayou Bienvenue CRES	\$4,607
	Road	44-24189; H.014059.5	Task Order 8 - US 80 Bridges over Minden	\$38,852
	Road	44-24189; H.015911	Task Order 9 - Grover Jones Rd over Williams Creek	\$91,579
	Road	44-24189; H.016276	Task Order 10 - Sidney Leblanc Rd over Coulee	\$78,281
	Road	44-24189; H.016481.5	Task Order 15- LA124: Larto Lake Bridge and Grade Raising	\$93,519
	Road	44-24189; H.016417.5	Task Order 16- I-12: Median Barrier Retrofit	\$74,519
	Road	44-24189; H.014591.5	Task Order 17- I-12 US 61 Bridges Girder Repairs	\$125,143
	Road	44-25029	IIJA Off-System Bridge Program	\$47,546
	Road	44-4900; H.008145.6	LA 1 Phase 2	\$55,140
	Road	44-28432; H.015569.5	LA 44 I-10 Roundabout	\$38,663
	Road	44-29195; H.016246.6	LA324 Over Bayou Teche	\$80,584
	Traffic	44-24189; H.015526.5	Task Order 12- Chippewa St. Pump Sta. Ph. 1	\$17

19. Workload:				
Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	\$740,233
		44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$40,545
		44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$897,508
		H.004435	I-12 to Bush Construction Phase	\$39,040
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$46,811
		44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$3,979
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,270,473
		44-25025; H.015452, H.015453, H.015456, H.015458	IIJA	\$10,461
		44-21519; H.012030.5	KCS RR Overpasses US 371	\$39,877
		44-21887; H.012542, H.012453, H.012047	Replacement of 15 Bridges	\$185,794
		44-6189; H.016313.5, H.016314.5	Culvert Replacements	\$951
		H.015430	IIJA	\$3,192
		H.001798	LA 531: Bridges Near Dubberly	\$12,533
		H.016094	US 371: Brushy Creek Bridge	\$36,357
		H.016204	Benton Sidewalks & RR Crossing	\$8,550
		H.016328.5	Canal Bridge Iberville Parish	\$14,523
		H.016333.5	Over Bayou Bridge Evangeline Parish	\$29,577
		H.016334.5	Over Drain Bridge Evangeline Parish	\$36,506
		H.016335.5	Canal Bridge Iberville Parish	\$15,354
		H.016336.5	Bayou Bridge Evangeline Parish	\$35,039
		H.016083.5	W Worthey Sidewalks Ascension Parish	\$41,942
Coastal Environments, Inc.	Environmental	4400032049; H.003931.6	Phase III Data Recovery -16CU128, Calcasieu Bridge	\$1,197,486
		4400029196 / H.016421.2	I-20 Interchange at Rough Edge Rd	\$135,285

19. Workload:				
Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ELOS Environmental, LLC	Environmental	44-0027734 / H.014362	Lake Road in St. Tammany Parish	\$20,047
		44-0021326 / H010074.1	DOTD Stage 0 IDIQ-LA 3089 Serve Rd/LA 70 Up	\$2,760
		44-00024189/H.015911	Grover Jones over Williams Creek	\$809
		44-00024189/H.016276.5	Sidney Lablanc Road over Coulee	\$452
		44-00024189/H.014059	US 80: Bridges Near Minden	\$3,264
		44-00031920/H.008069.5	Peters Road Bridge and Extension	\$1,449
Gulf South Land Title Resources, LLC	Other (Abstract of Title)	H.002423	LA Highway 44 (Black Bayou Bridge)	N/A
		H.000466	U.S. Highway 190 Intersection Improvements at Eden Church Road	N/A
		H.002780	LA Highway 308 Curve Improvements	N/A
		700-03-0125	LA Highway 42 Widening & Improvements	N/A
		H.009012	LA Highway 10 & 67	N/A
		H.002333	LA Highway 327 Bayou Paul Bridge	N/A
		H.003790.5	LA Highway 930 (Ascension LA Highway 929 to LA Highway 42)	N/A
KGC Environmental Services, Inc.	CE&I/ OV	44000027614 & H.009461	LA 182 Berwick Bay Bridge Rehab (HBI) Route LA 182, St. Mary Parish	\$350,000
Moffatt & Nichol Inc.	Bridge	4400029207; H.009730.5	LADOTD IDIQ Contract for Underwater Inspections - Task Order 1	\$1,730,605
		4400029683; H.009730.5	LADOTD IDIQ Contract for Complex Bridge Inspections - Task Order 8	\$396,506
		4400024187; H.014609.1	LADOTD IDIQ Contract for Bridge Preservation - Task Order 14 Cameron Ferry Landing Replacement	\$36,453
	Other (Rail)	4400011834; H.012811.1	LADOTD Railroad Inventory Systems Railroad Inventory Upgrade - Supplemental Agreement 1	\$21,602

19. Workload:				
Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Forte and Tablada, Inc.	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	813,327
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	95,757
	Bridge	4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	5,244
	Bridge	4400021594/H.009859.5	Task Order No. 10 - Statewide Bridge Rating	837,955
	Bridge	4400023921/H.015519.6	Task Order No. 5 - Smith Road over Red Chute Bayou	9,024
	Bridge	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	41,837
	Bridge	4400013387/H.013137.5	OSBR Ouachita	12,089
	Bridge	4400019864/H.014318.5	OSBR Gurney Road Bridges	4,708
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	3,487
	Bridge	4400024586/H.014981.5	OSBR Hosston River Road	5,689
	Road	4400024641/H.005734.5	LA 447 Corridor	300,449
	CE&I/OV	4400023837/H.013714.6	Valhi Blvd Shared-Use Path (Houma)	7,598
	CE&I/OV	4400023837/H.015011.6	Local Rd Striping & Signing (Ascension)	242,304
	CE&I/OV	4400023837/H.013753.6	LA 428: Gen Degaulle - Old Behrman	228,344
	Survey	4400021532/H.010116.5	LA 1088: Soult & Trinity Roundabouts	22,187
	Survey	4400021532/H.012059.5	LA 19: Bridges near Zachary	19,490
	Survey	4400021532/H.013195.5	LA 98 Curve Realignment	3,753
	Survey	4400021532/H.005734.5	LA 447 Corridor Study	95,561
	Survey	4400021532/H.012563.5	LA 73: Bayou Manchac Bridge (HBI)	461
	Survey	4400027919/H.015587.5	LA 3211 @ Yokley Rd Roundabout	7,031
	Survey	4400021532/H.004100.5	I-10: LA 415 to Essen on I-10 & I-12	100,036
	Survey	4400031906/H.004791.6	LA 23: Belle Chasse Bridge & Tunnel (HBI)	72,104
	Survey	4400031925/H.007811.5	Comite River - Cypress Bayou	72,812
	Survey	4400030630/H.015724.5	Kings Hwy: Healthcare & Dev Corridor	8,800
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	53,978
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	9,113
	Survey	H.004100	I-10 Capital Corridor	4,240

19. Workload:				
Forte and Tablada, Inc. (Cont'd)	Survey	4400004128/H.004273.5	I-49 Connector Additional ROW	\$6,692
	Survey	4400031228/H.015469.5	Shreveport Pavement Program	\$44,235
	Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$47,688
Vectura Consulting Services, LLC	Traffic	4400025299, H.01564.5	LA 47 Hayne Blvd Safety Improvements	\$9,437
		4400018271, H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146
		4400025299, H.014305	US 61: Cardinal Dr to Bert St	\$6,203
		4400026026, H.016037	LA 1138-1 & LA 1138-2: Corridor Improvements	\$142,847
		4400025299, H.016437.5	US 190: Wooddale to Livingston P/L Study	\$43,652
	CE&I/OV	4400020018, H.007160	EBR Computerized Traffic Signal, Ph VB	\$23,595
Wiss, Janney, Elstner Associates, Inc.	Bridge	4400001762, H.014899.6	I-10/310 Bonnet Carré Fire Damage Repair	\$37,618
		44-21594, H.009730.4	T-1 Steel Weld Assessment	\$13,816
		44-25003, H.009730.5-TO1	NDE for Testing/Evaluation of Structures, TO 1	\$350,108
		44-25003 H.009730.5-TO2	Testing/Eval of Structures, TO 2, In-Depth Bridge Inspection, UT	\$297,432
		44-25003, H.009730.5-TO3	Testing/Eval of Structures, TO 3 , Service Life Estimates	\$115,448
		44-25003, H.009730.5-TO4	Testing/Eval of Structures, TO 4 , Deck Scans	\$2,223,956
		4400023923, H.014283	Danziger Bridge Electrical Repairs	\$507,231
		DOTLT 1000428	Skew Detection Replacement on Vertical Lift	\$204,793
		44-21515, H.012738	Movable Bridge Rehabilitation - Morbihan	\$20,438
		44-21515, H.010004	Movable Bridge Rehabilitation - Olivier	\$32,550
		44-21515, H.011974.5	Movable Bridge Rehabilitation - Dulac	\$1,620
		44-21515, H.011991.5	Movable Bridge Rehabilitation - Daspit	\$32,650
		44-21515, H.014191	Movable Bridge Rehabilitation - Nelson	\$30,256
		4400023923, H.016537.5	West Larose Skew System Repairs	\$90,552
		44-21513, H.012737	Bayou Bonfouca Inspection	\$14,501
		44-21513, H.012044.5	Grand Lake Rehabilitation	\$18,866

SECTION 20

CERTIFICATIONS/ LICENSES

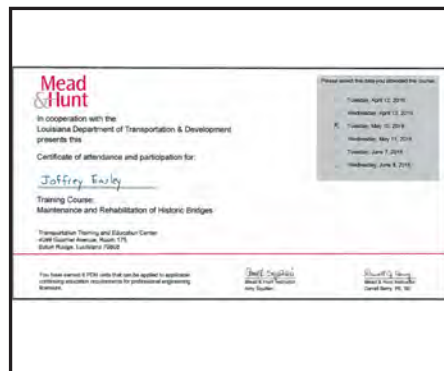
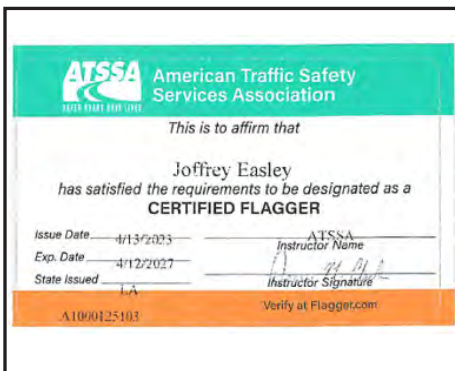


20. Certifications/Licenses:

Josh Porter, PE MPR ④



Joffrey Easley, PE



20. Certifications/Licenses:

Patrick Roth, PE



Lars Jensen, PE



20. Certifications/Licenses:

Chace Hulon, PE, ADCI

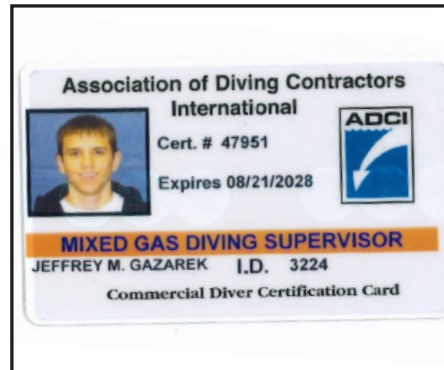


Bryan Tyson, PE, ADCI

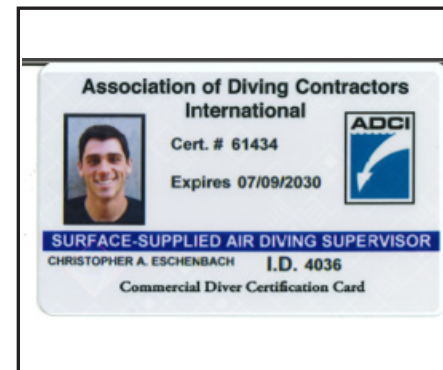
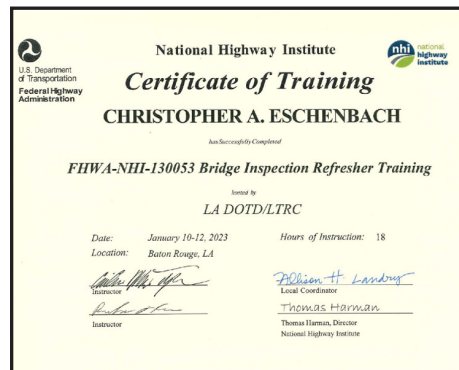


20. Certifications/Licenses:

Jeffrey Gazarek, ADCI



Christopher Eschenbach, ADCI



20. Certifications/Licenses:

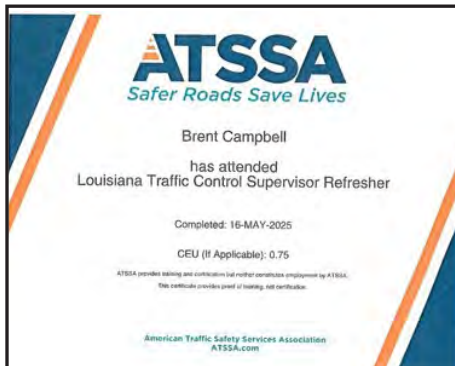
Jonathan McGormley, PE



Curtis Schroeder, PhD, PE, SE

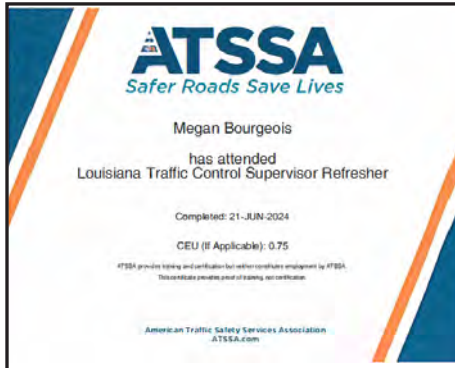


Brent Campbell

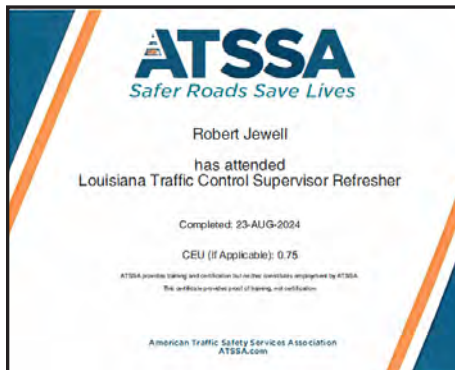


20. Certifications/Licenses:

Megan Bourgeois, PE



Robert Jewell, PE



Jarmon King, PE



20. Certifications/Licenses:

Jessica Litt



Casey Floyd

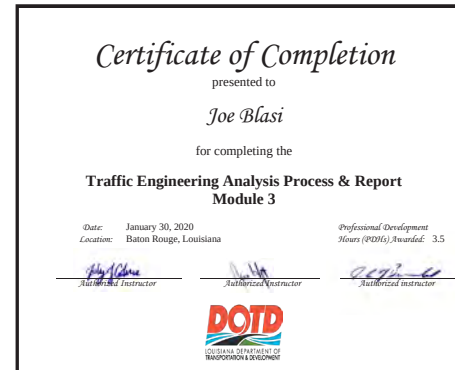
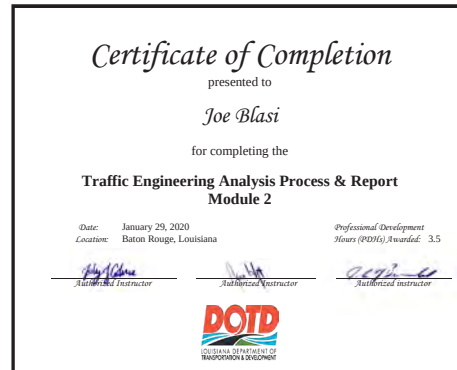
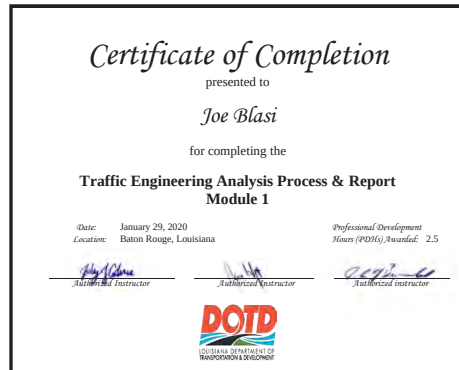


Ryan Felder, PE MPR 8

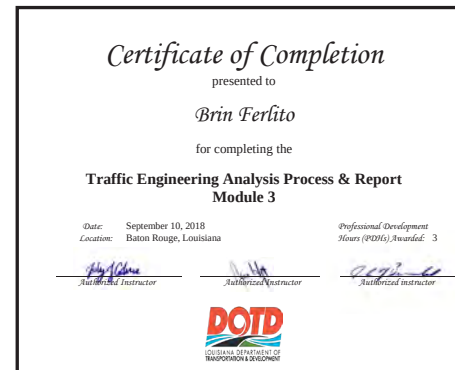
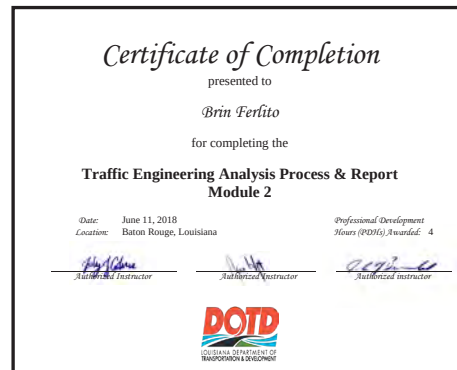
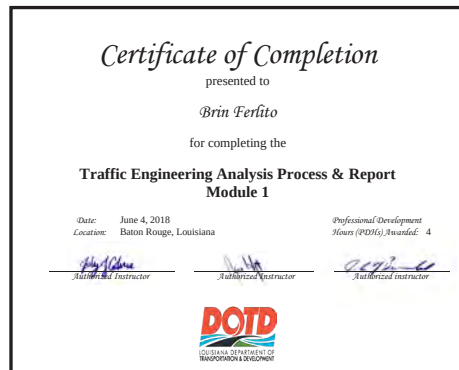


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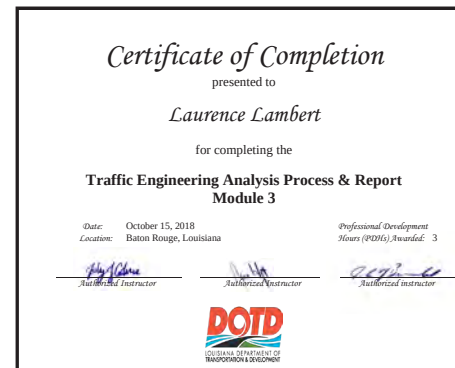
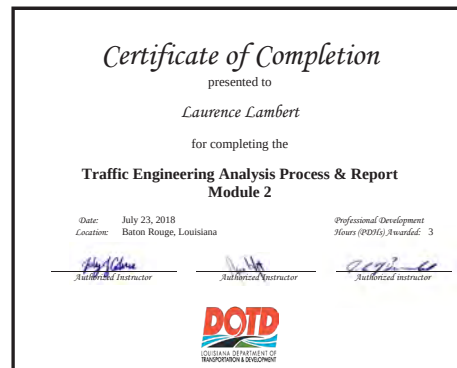
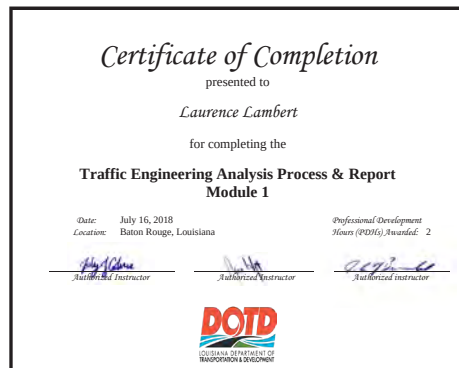
Joe Blasi, PE, PTOE



Brin Ferlito, PE, PTOE

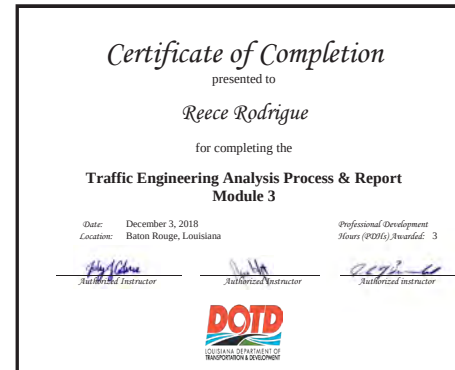
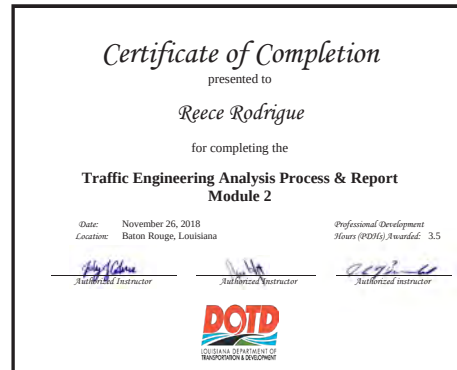
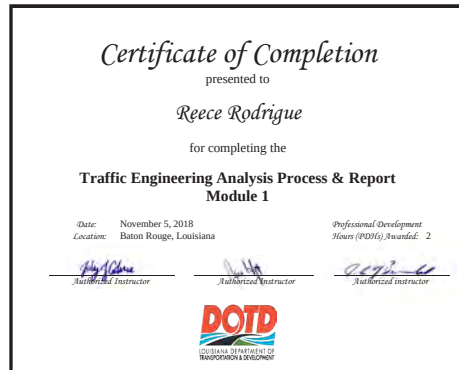


Laurence Lambert, II, PE, PTOE, PTP

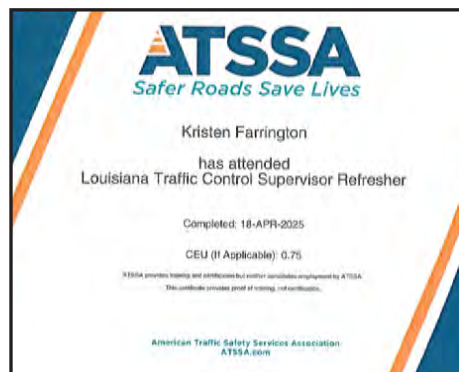
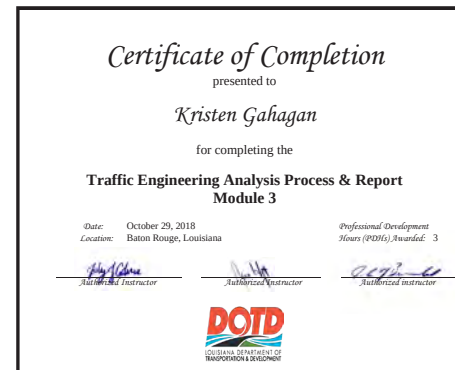
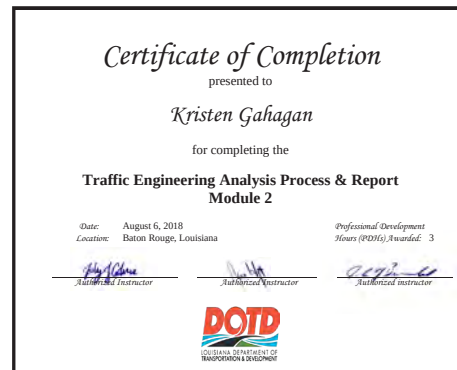
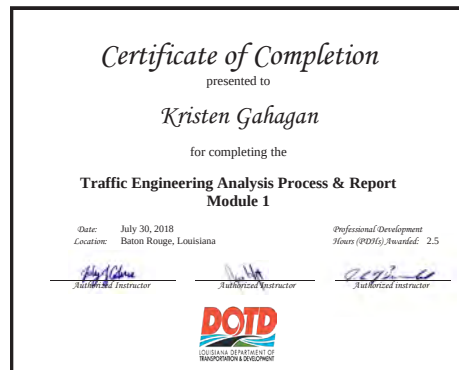


20. Certifications/Licenses:

Reece Rodrigue, PE, PTOE

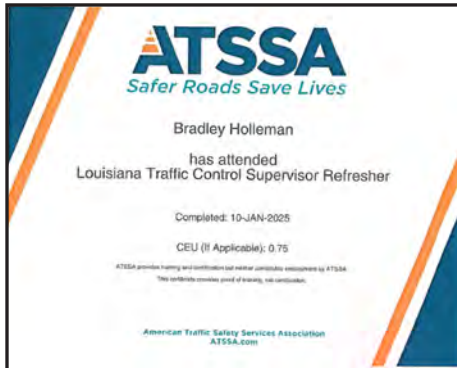


Kristen Gahagan Farrington, PE, PTOE, RSP

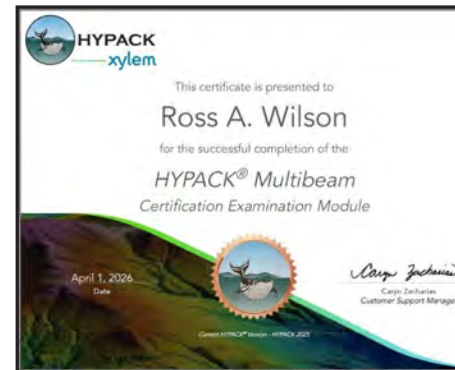
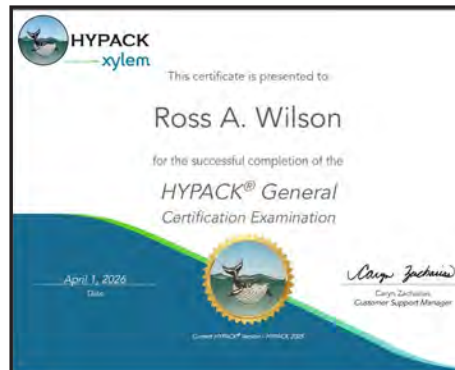


20. Certifications/Licenses:

Bradley Holleman, PLS, PE MPR 10

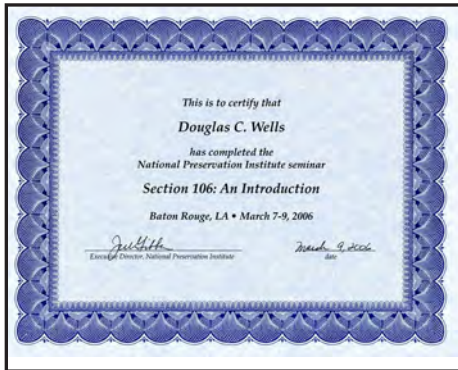


Ross Wilson, PLS



Basile Dardar MPR 14



20. Certifications/Licenses:**Douglas Wells, PhD** MPR **11**

20. Certifications/Licenses:

HNTB Corporation



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Name	Type	City	Status
HNTB CORPORATION	Business Corporation (Non-Louisiana)	DOVER	Active

Previous Names
 Business: HNTB CORPORATION
 Charter Number: 34422713F
 Registration Date: 12/23/1992

Domicile Address
 615 S DUPONT HWY
 DOVER, DE 19901

Mailing Address
 P.O. BOX 412197
 KANSAS CITY, MO 64141

Principal Business Office
 1111 MAIN STREET, SUITE 2500
 KANSAS CITY, MO 64106

Registered Office in Louisiana
 44509 BLUEBONNET BLVD
 BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana
 450 LAUREL STREET, SUITE 1200
 BATON ROUGE, LA 70801

Status
 Status: Active
 Annual Report Status: In Good Standing
 Qualified: 12/23/1992
 Last Report Filed: 12/2/2025
 Type: Business Corporation (Non-Louisiana)

Ardaman & Associates, Inc.



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Name	Type	City	Status
ARDAMAN & ASSOCIATES, INC.	Business Corporation (Non-Louisiana)	ORLANDO	Active

Previous Names
 Business: ARDAMAN & ASSOCIATES, INC.
 Charter Number: 34396031F
 Registration Date: 12/13/1991

Domicile Address
 8008 SOUTH ORANGE AVENUE
 ORLANDO, FL 32809

Mailing Address
 3475 E. Foothill Blvd.
 PASADENA, CA 91107

Principal Business Office
 8008 SOUTH ORANGE AVENUE
 ORLANDO, FL 32809

Registered Office in Louisiana
 3867 PLAZA TOWER DR.
 BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana
 316 HIGHLANDIA DR.
 BATON ROUGE, LA 70816

Status
 Status: Active
 Annual Report Status: In Good Standing
 Qualified: 12/13/1991
 Last Report Filed: 11/13/2025
 Type: Business Corporation (Non-Louisiana)

Coastal Environments, Inc.



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Name	Type	City	Status
COASTAL ENVIRONMENTS, INC.	Business Corporation	BATON ROUGE	Active

Previous Names
 Business: COASTAL ENVIRONMENTS, INC.
 Charter Number: 27701120D
 Registration Date: 1/6/1967

Domicile Address
 1260 MAIN STREET
 BATON ROUGE, LA 70802

Mailing Address
 1260 MAIN STREET
 BATON ROUGE, LA 70802

Principal Office Address
 1260 MAIN STREET
 BATON ROUGE, LA 70802

Status
 Status: Active
 Annual Report Status: In Good Standing
 File Date: 1/6/1967
 Last Report Filed: 12/8/2025
 Type: Business Corporation

ELOS Environmental, LLC



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Name	Type	City	Status
ELOS ENVIRONMENTAL, LLC	Limited Liability Company (Non-Louisiana)	WILMINGTON	Active

Previous Names
 Business: ELOS ENVIRONMENTAL, LLC
 Charter Number: 45643772Q
 Registration Date: 10/19/2023

Domicile Address
 1209 ORANGE STREET
 WILMINGTON, DE 19801

Mailing Address
 607 W MORRIS AVE
 HAMMOND, LA 70403

Principal Business Office
 607 W MORRIS AVE
 HAMMOND, LA 70403

Registered Office in Louisiana
 3867 PLAZA TOWER DR.
 BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana
 607 W MORRIS AVE
 HAMMOND, LA 70403

Status
 Status: Active
 Annual Report Status: In Good Standing
 Qualified: 10/19/2023
 Last Report Filed: 9/19/2025
 Type: Limited Liability Company (Non-Louisiana)

20. Certifications/Licenses:

Forte and Tablada, Inc.



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Name	Type	City	Status
FORTE AND TABLADA, INC.	Business Corporation	BATON ROUGE	Active

Previous Names
Business: FORTE AND TABLADA, INC.
Charter Number: 253060900
Registration Date: 2/8/1961

Domicile Address
 9107 INTERLINE AVE.
 BATON ROUGE, LA 70809

Mailing Address
 9107 INTERLINE AVE.
 BATON ROUGE, LA 70809

Principal Office Address
 9107 INTERLINE AVE.
 BATON ROUGE, LA 70809

Status: Active
Annual Report Status: In Good Standing
File Date: 2/8/1961
Last Report Filed: 1/12/2026
Type: Business Corporation

Gulf South Land Title Resources, LLC



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Name	Type	City	Status
GULF SOUTH LAND TITLE RESOURCES, LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names
Business: GULF SOUTH LAND TITLE RESOURCES, LLC
Charter Number: 35324911K
Registration Date: 8/20/2002

Domicile Address
 341 ST. JOSEPH STREET
 BATON ROUGE, LA 70802

Mailing Address
 C/O DREW C GAUDET
 341 ST. JOSEPH STREET
 BATON ROUGE, LA 70802

Status: Active
Annual Report Status: In Good Standing
File Date: 8/20/2002
Last Report Filed: 8/15/2025
Type: Limited Liability Company

KGC Environmental Services, Inc.



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Name	Type	City	Status
KGC ENVIRONMENTAL SERVICES, INC.	Business Corporation	MADISONVILLE	Active

Previous Names
Business: KGC ENVIRONMENTAL SERVICES, INC.
Charter Number: 346553140
Registration Date: 1/12/1998

Domicile Address
 344 BLACK RIVER DR
 MADISONVILLE, LA 70447

Mailing Address
 C/O KEVIN GUTH
 344 BLACK RIVER DR
 MADISONVILLE, LA 70447

Principal Office Address
 344 BLACK RIVER DR
 MADISONVILLE, LA 70447

Status: Active
Annual Report Status: In Good Standing
File Date: 1/12/1998
Last Report Filed: 12/17/2025
Type: Business Corporation

Moffatt & Nichol Inc.



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Name	Type	City	Status
MOFFATT & NICHOL, INC.	Business Corporation (Non-Louisiana)	LONG BEACH	Active

Previous Names
 MOFFATT & NICHOL ENGINEERS, INC. (Changed: 11/17/2003)
Business: MOFFATT & NICHOL, INC.
Charter Number: 345278966
Registration Date: 5/23/1996

Domicile Address
 4225 E. CONANT STREET, SUITE 101
 LONG BEACH, CA 90808

Mailing Address:
 4225 E. CONANT STREET, SUITE 101
 LONG BEACH, CA 90808

Principal Business Office
 4225 E. CONANT STREET, SUITE 101
 LONG BEACH, CA 90808

Registered Office in Louisiana
 3087 PLAZA TOWER DR
 BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana
 301 MAIN STREET
 SUITE 800
 BATON ROUGE, LA 70801

Status: Active
Annual Report Status: In Good Standing
Qualified: 5/23/1996
Last Report Filed: 5/8/2025
Type: Business Corporation (Non-Louisiana)

20. Certifications/Licenses:

Vectura Consulting Services, LLC



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Name	Type	City	Status
VECTURA CONSULTING SERVICES, LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names
 Business: VECTURA CONSULTING SERVICES, LLC
 Charter Number: 41994609K
 Registration Date: 8/24/2015

Domicile Address
 4467 BLUEBONNET BLVD.
 SUITE A
 BATON ROUGE, LA 708099639

Mailing Address
 PO BOX 14269
 BATON ROUGE, LA 70898

Status
 Status: Active
 Annual Report Status: In Good Standing
 File Date: 8/24/2015
 Last Report Filed: 7/30/2025
 Type: Limited Liability Company

Wiss, Janney, Elstner Associates, Inc.



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Name	Type	City	Status
WISS, JANNEY, ELSTNER ASSOCIATES, INC.	Business Corporation (Non-Louisiana)	NORTHBROOK	Active

Previous Names
 Business: WISS, JANNEY, ELSTNER ASSOCIATES, INC.
 Charter Number: 3450200F
 Registration Date: 3/4/1996

Domicile Address
 330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Mailing Address
 330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Principal Business Office
 330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Registered Office in Louisiana
 8360 UNITED PLAZA BLVD., SUITE 702
 BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana
 5615 CORPORATE BLVD., STE. 400B
 BATON ROUGE, LA 70808

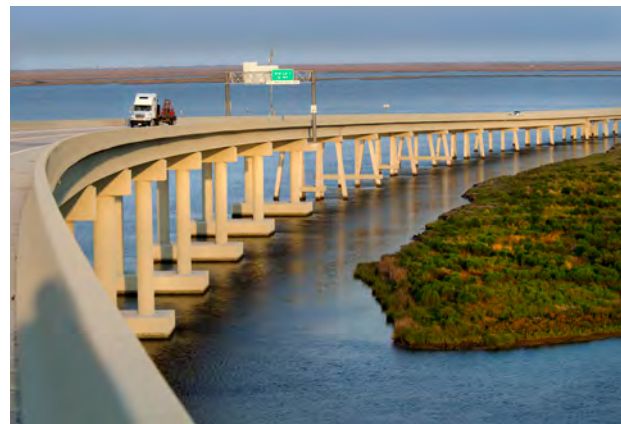
Status
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 Annual Report Status: In Good Standing
 Qualified: 3/4/1996
 Last Report Filed: 2/27/2025
 Type: Business Corporation (Non-Louisiana)

SECTION 21

QA/QC PLAN



21. QA/QC Plan:



CONTRACT NOS. 4400035420, 4400035421, 4400035422
Sample Bridge Project QA/QC Management Plan

Bridge Project QUALITY MANAGEMENT PLAN

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1.0 Introduction

1.1 PROJECT INTRODUCTION

This document was developed to provide quality control (QC)/quality assurance (QA) procedures for multiple IDIQ contracts for bridge preservation advertised by the LADOTD. The intent of this HNTB QMP is to supplement Part I, Chapter 3 of the LADOTD Bridge Design and Evaluation Manual.

1.2 QUALITY INTRODUCTION

The HNTB doctrine states – sustainability, profitable growth, best business practices and “4 for 4”. HNTB’s “4 for 4” is our performance standard for each and every project as stated below:



- ☒ Quality Work
- ☒ On Time
- ☒ On Budget
- ☒ To the Client's Satisfaction on Every Project

Quality is a key component of this doctrine and is expected in everything we do. HNTB has defined the standard of quality that is to be achieved in our Manual of Professional Practice (MPP) and has established general guidelines for achieving this goal and documenting the results.

The HNTB team is aware that QC and QA is our responsibility, not the responsibility of the LADOTD. We are committed to providing high-quality, accurate work on all deliverables associated with this contract.

The **Bridge QMP** establishes planned and systematic processes necessary to provide adequate confidence that this project will conform to the established quality requirements. It consists of two key components, QC and QA.

This QMP provides an understanding of basic quality processes set forth for the project and the procedures established for implementing those processes. The general procedures outlined herein are recommended for use on all tasks including the management of our subconsultant's work products. These procedures are intended to serve as guidelines and are not intended to be a replacement for sound professional judgment.

The following QMP was developed in accordance with HNTB Gulf Coast District QMP and Part I, Chapter 3 of the LADOTD Bridge Design Manual “Policy for quality control and quality assurance (QC/QA)”.

1.3 DEFINITION OF TERMS AND POSITIONS

QC: Procedure for checking the accuracy and consistency of the calculations and the drawings, detection and correcting design omissions and errors before

the design plans are finalized, and verifying the specification for the load-carrying members are adequate for the service and operation loads.

QA: Procedure for reviewing the work to ensure the QC procedures are in place and effective in preventing mistakes, and consistency in the development of the bridge design plans and specifications.

Designer: Engineer directly responsible for the development of design calculations, drawings, special provisions and cost estimates. Must be either a licensed professional engineer or engineer intern.

Checker: Engineer responsible for performing a full technical review of the design calculations, special provisions, drawings, and cost estimates. Must be either a licensed professional engineer or engineer intern, however, if the designer is a engineer intern the design checker must be a professional engineer.

Design Back-Checker: Typically the designer. If designer is unavailable, the design back-checker must coordinate with the checker to ensure all noted changes are agreed to. Must be either a licensed professional engineer or engineer intern, however, if the checker is an engineer intern, the design back-checker must be a professional engineer.

Detail Back-Checker: Engineer responsible for performing a full review of the drawings. Must be either a licensed professional engineer or engineer intern, however, if the checker is an engineer intern, the detail back-checker must be a professional engineer.

Updater: Individual responsible for updating the design calculations or plans to reflect all agreed upon changes. (For design calculations, typically the designer; for plans, typically the detailer.)

Verifier: Individual (usually the checker) responsible for verifying that all changes or additions to a drawing, calculation, report or graphic element have been accurately incorporated.

Reviewer: Engineer responsible for ensuring that the QC process has been followed as outlined.

Detailer: Individual responsible for preparing drawings.

Supervisor or Team Leader: Project manager or task assignee responsible for overseeing the project and staff on the project.

Engineer of Record (EOR): The engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required.

Quality Project Manager (QPM)/Quality Task Manager (QTM): Individual responsible for conducting audits and ensuring QC plans are adhered to. The QPM is responsible for the entire project and all aspects and the QTM are responsible for each discipline.

Independent Technical Reviewer: Engineer who completes an independent review of the drawings and/or calculations. Independent technical reviewer is

part of the consultant team but is not part of the design team. Engineer must have experience reviewing tasks that meet or exceed those of the designer and or checker.

Peer Review: Independent engineering entity, with no prior involvement in the project, performs a check of the designs by producing an independent set of calculations based on the drawings or performs the review as specified in the scope of work. Peer reviewer may not be employed by the same consultant with whom the designer or design checker is employed. Peer reviews are typically performed between 60% to 98% final plans stage depending on the scope of the review.

Audit: A systematic, independent and documented activity performed to verify that applicable elements of the QMP have been effectively implemented and documented in accordance with the specific requirements.

Constructability Review: A design review performed by the contractor or appropriate construction services personnel to assess the feasibility of the proposed design from a construction perspective.

Design Criteria: A set of project-specific parameters that define the design requirements, specifications and functional classifications of the project.

Inter-Discipline Review: A discipline specific design review of a design package by all applicable design disciplines.

Quality Records: A completed document or record keeping evidence of successful implementation of any given aspect of the QMP.

1.4 SUBCONSULTANTS

Any work performed by a subconsultant to HNTB shall be held to the same quality standards as described herein for HNTB produced work. As part of the HNTB team project kick-off, all team members will participate in a quality training session to ensure all parties understand QC/QA requirements and expectations. At a minimum, additional quality training sessions will be held yearly to reinforce quality processes and introduce processes to any new team members.

1.5 FILE MANAGEMENT

Projectwise will be used to manage electronic files between HNTB, Ardaman & Associates, Coastal Environments, ELOS Environmental, Forte and Tablada, Gulf South Land Title Resources, KGC Environmental Services, Moffatt & Nichol, Vectura Consulting Services, Wiss, Janney, Elstner Associates, and LADOTD. Separate folder structures will be created for each structure. ProjectWise will be used to transfer data between LADOTD and HNTB. CADD drawings will be created and modified on local servers. Once complete, all team members will upload PDF CADD files to Projectwise to initiate quality reviews. HNTB will upload final CADD and PDF files will be uploaded to ProjectWise.

1.6 CADD

All drawings will be developed in Bentley OpenRoads and OpenBridge Designer and be CADD conformed to LADOTD standards.

1.7 RESPONSIBILITIES OF THE LADOTD BRIDGE TASK MANAGER

LADOTD bridge task manager will not be responsible for QC/QA of HNTB or our subconsultant's work. The LADOTD bridge task manager will be responsible for items listed in Section 3.3.2 of Part I, Chapter 3 of the Bridge Design Manual. Some, but not all, items are listed below:

- » Develop scope.
- » Approve design criteria submitted by HNTB.
- » Review and approve bridge type, size and location (TS&L) and ensure design criteria is updated as project progresses.
- » Review consultant submittals. Selectively check dimension and details as a cursory review of the plans for constructability, consistency, and clarity but not as QC/QA of HNTB work.
- » Monitor project schedule - HNTB is ultimately responsible for maintaining schedule or communicating concerns with LADOTD PM.
- » Monitor budget - HNTB is ultimately responsible for maintaining budget or communicating concerns with LADOTD PM.



HANS HUTTON, PE, SE, will serve as one of the QC/QA managers for this contract. He is a vice president, HNTB Fellow and chief engineer. His thorough understanding of both fixed and movable bridges as well as roadway, railway and pedestrian bridges qualifies him to serve as a QC/QA manager for this contract. Han's knowledge and leadership will ensure all assignments are completed with the utmost level of quality.



STEVEN HAGUE, PE, SE, will serve as one of the QC/QA managers for this contract. His thorough understanding of site-specific seismology, and geotechnical soil and rock remediation, as well as his ability to review and coordinate a wide variety of disciplines to ensure that all the necessary pieces of a complex design come together successfully allow him to provide the greatest level of quality for this contract.

HNTB will use the QC/QA manager whose skill set best matches the current assignment. This will ensure that all current industry standards, technology, and best practices are being used. HNTB will also assign a local office Quality

Project Manager (QPM) to ensure the quality process is followed on all deliverables.

2.0 Quality Control Process

QC is defined as the procedures and processes established to meet the project requirements for quality as stated in the QMP and the accepted standard of care. It is our basic checking procedures for ensuring accuracy and completeness. The following are the standard checking formats for hard copy documents (such as hand calculations, program input files and plans) and electronic documents (such as word documents) that should be implemented for all QC processes:

DESIGN CALCULATIONS AND LADOTD APPROVED DESIGN PROGRAMS

QC starts first with the designer. The designer is responsible for reviewing all calculations prior to being checked.

A copy of the original document is made for documentation of all review activities. For checking of design programs, a printout of the input and output should be provided to the checker, however, the checker is only responsible for checking the input and reviewing the output to verify the input.

Review of the document for correctness and completeness is performed by the **checker**.

- » Changes are **marked in red**.
- » Correct items are **highlighted in yellow**.
- » Correct full paragraphs (or pages) are marked with a **yellow diagonal**.
- » Input files are 100% checked. Controlling values of output files will be verified as an additional check.
- » When the checker is complete, all text will be either **highlighted in yellow** or **marked in red**. By doing so, the QPM can easily verify if the entire document has been checked.

A back-check of all comments/proposed changes is performed by the design **back-checker** (usually the **originator**).

- » Agreement is shown with a **green check mark**

Disagreement is discussed with **checker** and noted with a **green STET** (no change required) upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

- » Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

- » **Blue circles** are **highlighted in yellow** to show that updates were made.

Once complete, there should be two copies of the design calculations. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the corrected copy and should have the checker and back-checker initials. The corrected copy will be included as part of the design calculation book submitted to LADOTD. Both files shall be uploaded to the Team ProjectWise folder.

ELECTRONIC DOCUMENTS (WORD, PDFS, ETC.) (NOT DESIGN PROGRAMS)

A review of the document for correctness and completeness is performed by the **checker**.

- » Changes are shown in an inserted comment box or using track changes in a Word Document.
- » Correct items are **highlighted with yellow**.
- » Correct full paragraphs (or pages) are **highlighted in yellow**.
- » Checker will save a version of the checked file once checking is complete.

A back-check of all comments/proposed changes is performed by the **back-checker** (usually the **originator**).

- » Agreement is shown by typing "concur" and initialing in comment box or accepting changes (Word Document).

Disagreement is discussed with **checker** and noted with a STET in comment box with initials of both parties or by rejecting changes (Word Document) upon concurrence with original value.

- » Back-checker will save a version of the file once back-checking is complete.

All agreed upon changes are made to the original document by the **originator** (or **updater** if track changes was not used). A version will be saved once updating is complete.

All updates to the original document are verified for completeness and correctness by the **verifier** (usually the **checker**). The final, clean version will be saved once verification is complete. Associated files shall be uploaded to the Team ProjectWise folder.

PLANS (ALL SUBMITTALS TO LADOTD)

A set of plans is printed to PDF and each sheet stamped with a PDF checking print stamp (see Appendix).

Review of the plans for correctness and completeness is performed by the checker. The preference is this checking process occur within Bluebeam, but printing paper copies and hand marking is acceptable.

- » Changes are **marked in red**.
- » Correct items are **highlighted in yellow**.
- » If **checker** has significant comments and changes, plans shall be updated accordingly and checking process restarted.
- » **Checker** must be a professional engineer or engineer intern and cannot be the **designer** of the plans.

The **detail back-checker** (usually the **designer**) will perform a back-check of all comments/proposed changes. **Back-checker** is responsible for reviewing all items on the drawing including items marked by **checker**.

- » Agreement is shown with a **green check mark** ✓.
- » Disagreement is discussed with **checker** and noted with a **green STET** upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

- » Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

- » **Blue circles** are **highlighted in yellow** to show that updates were made.

Once complete, there should be two copies of the plans. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the clean, corrected copy and will be the official deliverable document. Both files shall be uploaded to the Team ProjectWise folder.

A basic checking procedure is displayed below:



2.1 LEVELS OF REVIEW

There are two levels of review that are utilized within the QC process, as defined below. A given project task could receive a Level 1 or a Level 2 review, or both as deemed appropriate by the supervisor or team leader.

Level 1 - 100% checking of a produced document to include drawings, calculations, spreadsheets, special provisions, tables within reports, program input, graphic elements for reports or presentations, design programs, CADD modeling input.

Level 1 - 100% Document Check

- » Check everything on a sheet.
- » Use the appropriate standard checking format.
- » Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- » Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.

Level 1 - 100% Input Check

- » Checking is only for input data.
- » Use the appropriate standard checking format
- » Verify that the software or spreadsheet used is appropriate.
- » LADOTD pre-approved software does not require validation.
- » Verify any previously prepared MathCad and Excel spreadsheets.
- » Document checking procedures on an attached check print sign off sheet (see Appendix).
- » Copy and upload original checked documents as color pdf files to the project "QC" directory, to await audit.

Level 2 - Peer or senior technical review of documents to include drawings, calculations, report text, CADD documents, shop drawings and RFIs, presentation materials and QA checklists; inter-disciplinary, constructability and independent technical reviews; review and oversight of subconsultant submittals.

- » Check or validate only specific items as determined by the supervisor or team leader
- » Use the appropriate standard checking format.
- » Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- » Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.

3.0 Quality Assurance Process

QA is defined as the systematic activities implemented to provide confidence that the QC processes are followed in compliance with the QMP. These are our audit processes for verifying that the appropriate checking procedures have been performed and documented, and our corrective action plans for addressing problems have been identified within the processes. The keys to an effective quality program lie in the accountability, compliance and continual improvement of the program.

Once the QC processes have been performed, a QA process must be implemented to confirm that the QC procedures were performed to the expectations documented in the QMP. The following procedures should be part of the assurance/validation process.

3.1 AUDITS

Each consultant shall be responsible for uploading their quality checked files onto ProjectWise for QA and notifying the QPM. The QPM will audit the QC records prior to each submission to confirm that all QC procedures have been performed for each task of the deliverable, and record the findings on associated form (see Appendix). Upon approval of the quality documents, the QPM will move each approved document into the project quality records folder and will inform the supervisor or team leader that the submittal is ready for release to the client. The office leader will also receive a hard copy of that verification.

Additionally, the HNTB office quality manager may choose this project for review at an executive level. An audit may be performed similar to the routine project audit, but will also include interviews with staff to determine if the quality management process is clearly understood and is being performed unbiased and independent of the design or production process.

The purpose of the audit is two-fold:

- » Identify and correct a breakdown in quality or any instance of noncompliance to established HNTB best practice procedures through a defined corrective action plan.
- » Identify opportunities for implementation of preventive action, training and continual improvement processes to enhance quality, efficiency and value to our projects and clients.

All audit findings should be documented as a part of the quality records.

3.2 CORRECTIVE ACTION AND PREVENTIVE ACTION PLANS

A corrective action plan (CAP) is a strategy for correcting or eliminating a problem impacting project quality or performance that has already occurred or been identified. The focus of the plan is to systematically review the root cause of the problem in an attempt to prevent the problem from recurring. The primary concepts of the plan are as follows:

- » Task leads identify the problem and present to PM or QPM
- » Determine the cause of the problem or unintended result
- » Identify action items or plan to correct to the problem

Preventive actions are implemented in response to the identification of a trend that would potentially impact quality and lead to a project issue or problem. Preventive action is considered as a proactive undertaking. For example, if we anticipate a potential problem and take action to eliminate the causes and prevent the occurrence of that problem, this is considered to be preventive action.

If a problem or breakdown in quality is discovered during an audit, the PM will be notified immediately. The PM and QPM will perform a root cause analysis to determine the extent of the problem and develop a CAP for implementation. A follow-up meeting will be conducted with all responsible individuals to convey the CAP expectations. If a resolution cannot be reached, the office leader will become involved in the process.

4.0 QUALITY MANAGEMENT IMPLEMENTATION

For a quality program to be effective, it must be planned and implemented as part of the project work plan, and budgeted accordingly. A QMP log - Form 1.0 (see Appendix) should be filled out by the PM for every project, incorporated into the Project Work Plan and forwarded to the QPM for execution.

Proper documentation of the process throughout is also key to successfully managing quality. The following file structure should be set up within the project directory for each project:

\Job_Folder\QMP\Deliverable Name\QC (local server)

\Job_Folder\QMP\Deliverable Name\QA (ProjectWise)

\Job_Folder\QMP\Deliverable Name\Quality Records (ProjectWise)

\Job_Folder\QMP\Deliverable Name\Client Deliverable (ProjectWise)

The **QMP** folder will contain the QMP log (Form 1.0) and all project specific quality requirements, checklists, etc.

The **QC** sub-folder will receive each task item or deliverable that has been produced and is ready for review. Each deliverable will be accompanied by either Form 2.0 or Form 3.0, as determined by the PM or task leader. All assigned checkers will go here to get their assigned documents.

The **QA** sub-folder will receive each completed item or deliverable from the QC folder along with a completed Form 2.0 or Form 3.0. The QPM will go here to find all documents ready for QA.

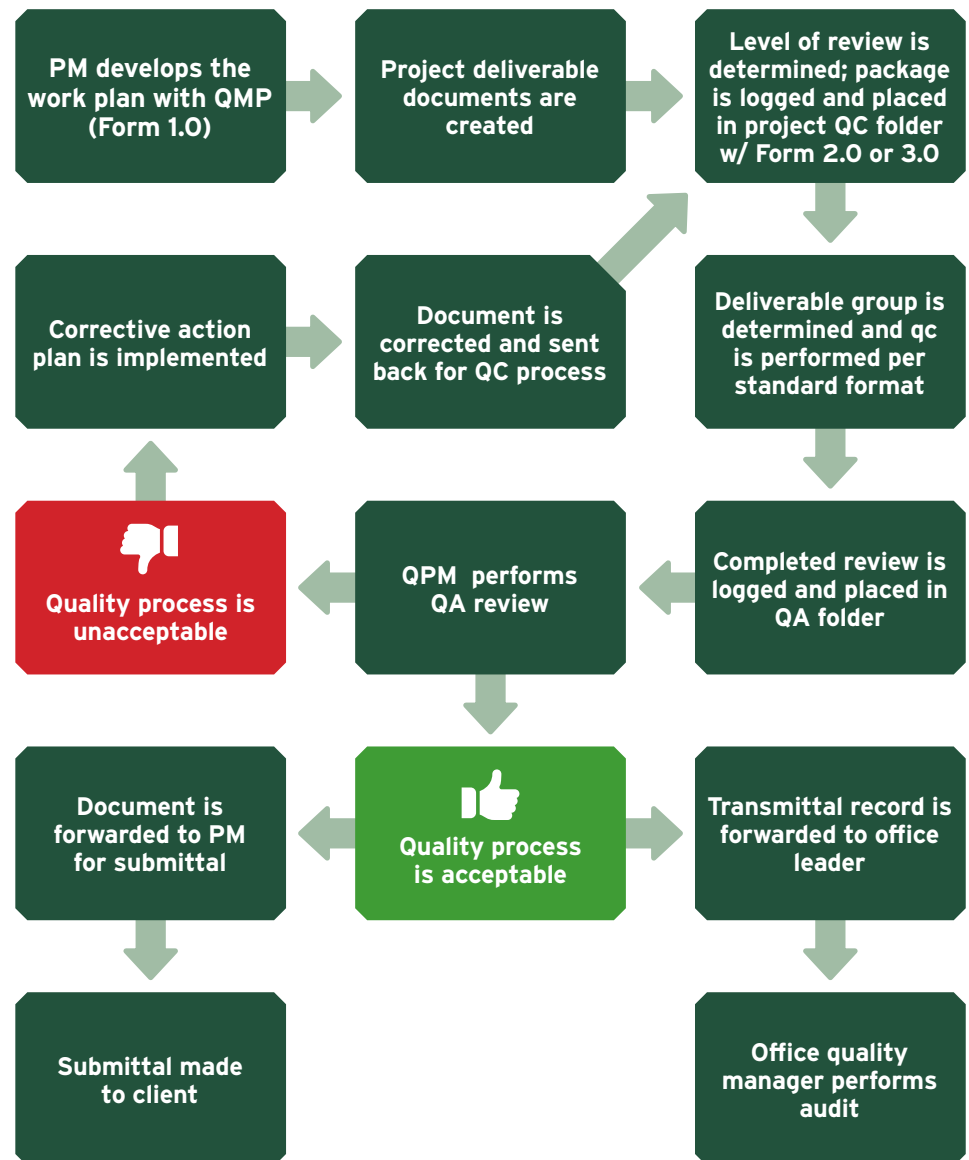
The **Quality Records** sub-folder houses all completed quality documentation that has been signed off by the QPM and the PM, all audit findings and CAP documentation.

The client deliverable folder houses only clean files which have completed QC/ QA procedures that are to be submitted to the client.

4.1 QMP PROCESS DIAGRAM

The diagram depicts all key activities and the work flow required for the quality management process. This diagram is only intended as a guide and can be supplemented as required by the PM or QPM, based upon project complexity or client requirements.

QUALITY PROCESS DIAGRAM



All deliverables submitted to the LADOTD will be subject to QC/QA as described in our QMP. A specific list of deliverables and milestones will be developed and described in the contract scope of work.

FORM 1.0 - QUALITY MANAGEMENT PLAN LOG

FORM 2.0 - LEVEL 1 CHECK PRINT SIGN-OFF SHEET

FORM 3.0 - LEVEL 2 REVIEW MEMORANDUM

FORM 4.0 - QUALITY AUDIT CHECKLIST

FORM 5.0 - CORRECTIVE ACTION LOG/ PREVENTIVE ACTION LOG

Sample Check Print Stamps

LADOTD QC/QA Certification

LADOTD Consultant Submittal QC/QA Certification

[illegible]



Bridge Quality Management Plan

FORM 2.0

LEVEL 1 CHECK PRINT SIGN-OFF SHEET

Client Name: _____

Job Title: _____

Job Number: _____

Document Title: _____

- Check Level (Mark One):
- ☐ 1 - 100% Document Check
- ☐ 1 - 100% Input Check (When Pre-Validated Software in Used)

	Name	Received Date	Completion Date
Originated By:	☐ _____	_____	_____
Checked By:	☐ _____	_____	_____
Backchecked By:	☐ _____	_____	_____
Verified By:	☐ _____	_____	_____

Comments:



e Bridge Quality Management Plan

FORM 3.0

LEVEL 2 REVIEW MEMORANDUM

Client Name: _____

Job Title: _____

Job Number: _____

Document Title: _____

- Check Level (Mark One):
- ☐ Studies or Report Type Documents
- ☐ Documents Prepared by Others
- ☐ Checklist
- ☐ CADD QC Audit
- ☐ Other
Specify below:

	Name	Received Date	Completion Date
Reviewed By:	☐ _____	_____	_____

Review Findings:

 FORM 4.0 QUALITY AUDIT CHECKLIST				
AUDITED AREA:			DATE(S) OF AUDIT:	
AUDITOR:			AUDIT:	
AUDIT ITEM	REFERENCE	METHOD OF VERIFICATION	CONFORMS	
			YES	NO
1. Have computer programs utilized been validated?	QMP Group D	Review validation records.		
2. Are calculation check prints available?	QMP Group B	Review originals and check prints		
3. Were calculations checked prior to drawing checking?	QA Folder, QMP Log	Review check prints.		
4. Are drawing check prints available?	QMP Group E	Review record set and check prints.		
5. Are check prints of specifications available?	QMP Group A	Review record set and check prints.		
6. Is checking of input to computer programs being accomplished?	QMP Group B	Review originals and check prints		
7. Are check prints of studies or report-type documents available?	QMP Group A	Review check prints.		
8. Are procedures for marking up check prints being followed? Checker - Yellow/Red Backchecker - Green Updater - Blue Verifier - Yellow	QA Folder	Review check prints.		
10. Are check prints properly signed and dated?	QA Folder	Review check prints.		
11. Are plan reviews completed?	QMP Log	Review package to verify that comment sheets are available.		
12. Are the review comments incorporated into the final documents or disposed of as otherwise noted?	QA Folder	Review for verification that Design Reviews comments have been		

		incorporated. Review for verification that comments from prior Design Reviews have been incorporated.		
13. Are check prints of graphic elements available?	QMP Group C	Review check prints.		
14. Are all checklists validated?	QMP Group D	Review check prints.		

Corrective Action Log

Form 5.0

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Corrective Action	Implemented
12345	Joe Smith	Subs delayed project submittal	Updated schedule for additional time for subs; weekly conference calls initiated	1/1/2012

Preventative Action Log

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Preventative Action	Implemented
12345	Joe Smith	Task 50% complete - 65% spent	Weekly monitoring by PM	1/1/2012

Sample Check Print Stamps**CHECKING PRINT**

Checked by _____ Date _____
 Back Checked by _____ Date _____
 Corrected by _____ Date _____
 Tracing Signed by _____ Date _____

**AUXILIARY
CHECKING PRINT NO. _____**

Checked by _____ Date _____
 Back Checked by _____ Date _____
 Corrected by _____ Date _____
 Tracing Signed by _____ Date _____

DOTD QC/QA Certification

Project No.: H.0XXXXX
 Project Name: XXXXXXXXXXXXX

We, the undersigned designers, 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						

DOTD Consultant Submittal QC/QA Certification

Project No.: H.0XXXXX
 Project Name: XXXXXXXXXXXXX

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

 Submittal Description

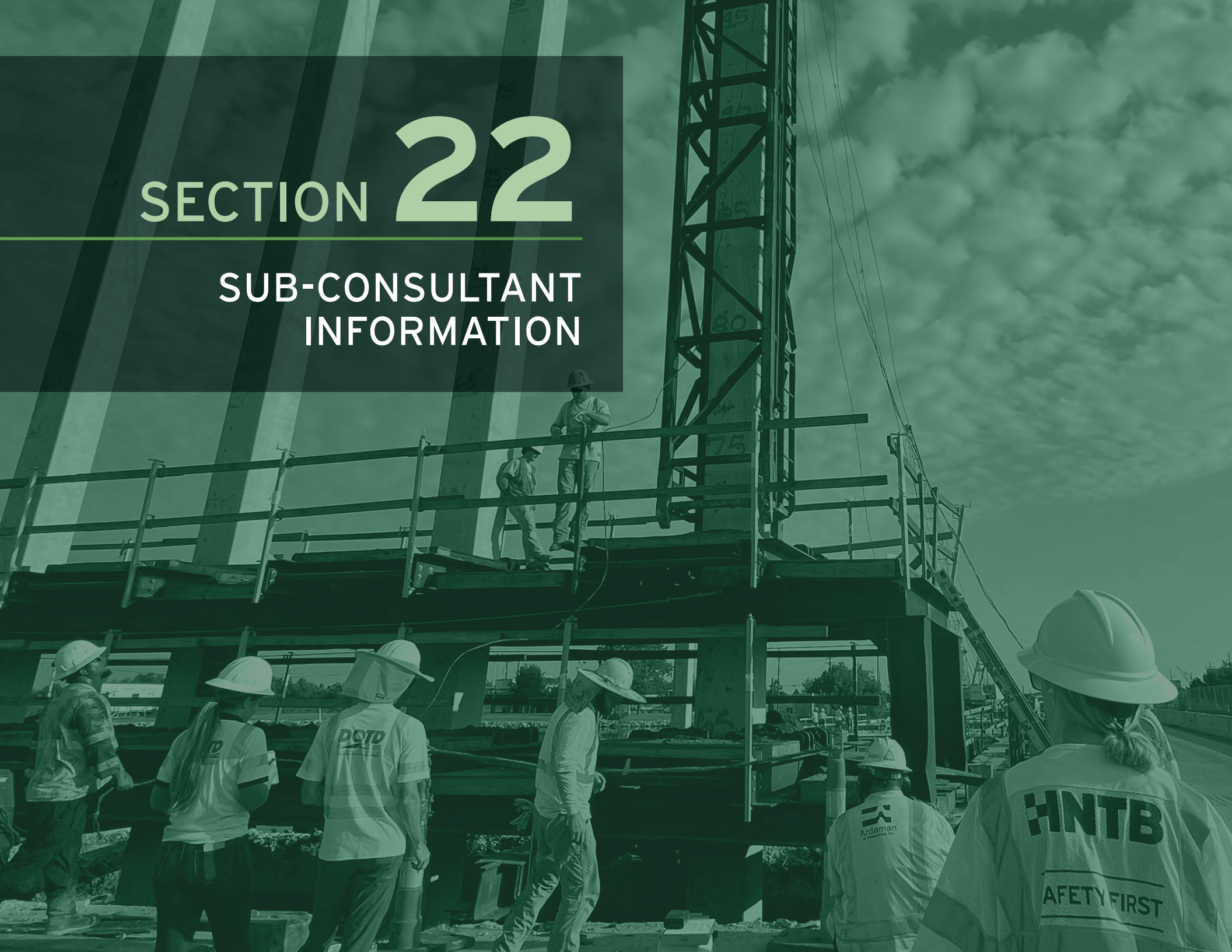
 Supervisor or Team Leader Name

 Signature

 Date

SECTION 22

SUB-CONSULTANT INFORMATION



22. Sub-consultant information:			
Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and email address	Phone Number
Ardaman & Associates, Inc.	316 Highlandia Drive Baton Rouge, LA 70810	Robert Jewell rjewell@ardaman.com	(225) 666-4598
Coastal Environments, Inc.	1260 Main Street Baton Rouge, LA 70802	David Kelley dkelley@coastalenv.com	(225) 383-7455
ELOS Environmental, LLC	607 West Morris Avenue Hammond, LA 70403	Lucas Watkins lwatkins@elosenv.com	(985) 662-5501
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr. jcoco@forteandtablada.com	(225) 927-9321
Gulf South Land Title Resources, LLC	341 St. Joseph Street Baton Rouge, LA 70802	Drew Gaudet dgaudet@gulfsouthland.com	(225) 344-4635
KGC Environmental Services, Inc.	344 Black River Drive Madisonville, LA 70447	Kevin Guth kmguth@kgces.com	(225) 936-3456
Moffatt & Nichol Inc.	301 Main Street, Suite 800 Baton Rouge, LA 70801	Chace Hulon chulon@moffattnichol.com	(225) 610-1932
Vectura Consulting Services, LLC	PO Box 14269 Baton Rouge, LA 70898	Brin Ferlito bferlito@vecturacs.com	(225) 223-6685
Wiss, Janney, Elstner Associates, Inc.	330 Pfingsten Road Northbrook, IL 60062	Jon McGormley jmcgormley@wje.com	(847) 753-7234

SECTION 23

LOCATION



23. Location:

Location is not required per advertisement.