REQUEST FOR ENGINEERING AND RELATED SERVICES

I-20: MISSISSIPPI RIVER BR AT VICKSBURG

ROUTE: I-20, MADISON PARISH

CONTRACT NO. 4400032013 | STATE PROJECT NO. H.015788.1 | FEDERAL AID PROJECT NO. H015788

DOTD

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

VOLKERT

1925 100 2025

Bookmarks added to pdf for ease of review.

Volkert, Inc.
Baton Rouge Office
9448 Brookline Avenue
Baton Rouge, LA 70809
www.volkert.com

April 30, 2025

Department of Transportation & Development
Attn: LADOTD Contract Manager (CM) – Ryan Morvant
1201 Capitol Access Road, Room 405-BB
Baton Rouge, LA 70802

RE: Advertistement for Engineering & Related Services - Contract No. 4400032013 – I-20: Mississippi River Bridge at Vicksburg (State Project No. H.015788.1 / Federal Aid Project No. H015788)

Dear Mr. Morvant,

As one of the nation's most experienced infrastructure planning and environmental consulting firms, Volkert, Inc. is uniquely positioned to help LADOTD and MDOT chart a resilient and forward-looking path for one of the South's most critical transportation assets—the I-20 Mississippi River Bridge at Vicksburg. We are pleased to submit our proposal to lead the development of the Planning and Environmental Linkage (PEL) document, bringing a comprehensive, collaborative, and technically rigorous approach to address the structural and environmental challenges of this aging crossing. With offices and staff strategically located in both Louisiana and Mississippi, our team is uniquely positioned to lead this effort with a deep understanding of the regional context, regulatory landscape, and infrastructure priorities on both sides of the river.

Volkert brings proven experience in large-scale infrastructure planning, NEPA compliance, and multidisciplinary coordination on federally funded transportation projects. Our approach is informed by extensive work on similar efforts, including multi-jurisdictional PEL and NEPA studies, environmental inventory development, stakeholder engagement, and structural feasibility reviews. We are confident in our ability and our knowledge of both LADOTD and MDOT policies and procedures to support LADOTD in advancing this major infrastructure project from early planning through environmental documentation.

Our team includes the following experienced subconsultants:

WSP USA, Inc. – Big Bridge Design and EIS authorship
Mead and Hunt, Inc. – Historic Bridge experience and Section 106 compliance
Ardaman & Associates, Inc. – Extensive Project Site Geotechnical Experience
NTBA - Topographic, Bathymetric Surveys and SUE
Southeastern Archaeological Research, LLC (SEARCH) - Cultural Resources (Marine & Archaeological) Surveys
APS Engineering and Testing – Geotechnical Engineering, DBE and experience with most partners on this project
EXP US Services, Inc. – Hydraulic and structural support

Volkert has successfully partnered with LADOTD on high level projects to provide both feasibility and NEPA services, the most recent was the Loyola Drive Interchange. We are dedicated to providing high-quality, professional services that align with state and federal performance targets. Our qualified professionals, supported by a network of industry-leading subconsultants, stand ready to deliver timely and effective solutions to support both Louisiana and Mississippi's goals for this project.

We appreciate the opportunity to be considered for this contract and look forward to the possibility of continuing our partnership with LADOTD. Should you require any additional information, please do not hesitate to contact me.

Respectfully submitted,
Volkert, Inc.

Janet L. Evans, PE, MBA
Vice President

LADOTD FORM 24-102 | SECTIONS 1 - 11

Bookmarks added to pdf for ease of review.

LADOTD FORM: 24-102

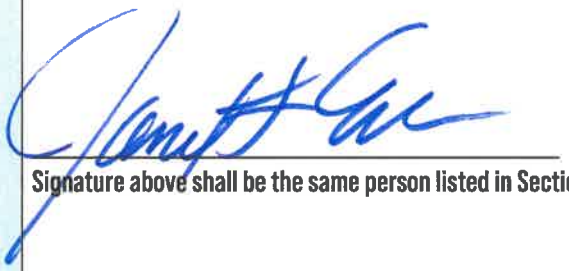
PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised December 12, 2024)

Prime consultant shall complete the LADOTD 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 LADOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE LADOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract title as shown in the advertisement	**CONTRACT NO. 4400032013, STATE PROJECT NO. H.015788.1 FEDERAL AID PROJECT NO. H015788, I-20: MISSISSIPPI RIVER BR AT VICKSBURG ROUTE: I-20, MADISON PARISH**
2. Contract number(s) as shown in the advertisement	4400032013
3. State Project Number(s), if shown in the advertisement	H.015788.1
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	Volkert, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	Louisiana License: EF.0002500 Louisiana License: VF.0000869
6. Prime consultant mailing address	9448 Brookline Ave Baton Rouge, LA 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Janet L. Evans, PE, MBA, Vice President 225-218-9440; Jan.evans@volkert.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Janet L. Evans, PE, MBA, Vice President 225-218-9440; Jan.evans@volkert.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. LADOTD 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:** April 30, 2025
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):** APS Engineering and Testing **Firm(s)' %:** 5%

SECTION 12 | PAST PERFORMANCE EVALUATION DISCIPLINE TABLE

Bookmarks added to pdf for ease of review.

12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Discipline(s)	% of Overall Contract	Volkert	Mead and Hunt	EXP	Search	WSP	NTB	Ardamn	APS	Each Discipline Must Total to 100%
Road	7%	100%	0%	0%	0%	0%	0%	0%	0%	100%
Bridge	15%	60%	10%	15%	0%	15%	0%	0%	0%	100%
Traffic	10%	90%	0%	0%	0%	10%	0%	0%	0%	100%
Geotech	15%	5%	0%	0%	0%	0%	0%	65%	30%	100%
Survey	7%	2%	0%	0%	0%	0%	98%	0%	0%	100%
Environmental	46%	42%	19%	3%	10%	26%	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%	45%	10%	4%	5%	15%	6%	10%	5%	100%

SECTION 13 | FIRM SIZE

Bookmarks added to pdf for ease of review.

13. For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by LADOTD Job Classification and the total number of personnel within the firm that could provide support, if needed.

Firm Name	LADOTD Job Classification	Number of Personnel committed to this contract	Total number of personnel available in this LADOTD Job Classification (if needed)
Volkert, Inc.	Archaeologist	2	
	Biologist/Wetlands	1	5
	Environmental Pro	3	13
	Environmental Manager	1	5
	Technicians	4	
	Engineer	10	173
	Engineer Intern	3	78
	Other (ROW)	1	
	Supervisor - Eng	3	39
	Surveyor	2	
WSP USA, Inc.	Engineer	4	417
	Geologist	2	64
	Environmental Pro	3	127
Mead and Hunt, Inc.	Supervisor - Other	1	4
	Historian	1	28
Ardaman & Associates, Inc.	Engineer	3	4
	Supervisor - Eng	3	3
	Supervisor - Other	2	2
NTB Associates, Inc.	Surveyor	3	6
	Engineer	1	1
APS Engineering and Testing	Engineer	3	5
Southeastern Archaeological Research, LLC	Archaeologist	3	50
EXP US Services, Inc.	Engineer	6	195

SECTION 14 | ORGANIZATIONAL CHART

Bookmarks added to pdf for ease of review.

14. Organizational Chart:

FIRM LEGEND

- Volkert, Inc.
- Ardaman & Associates, Inc.
- Mead & Hunt, Inc.
- WSP USA Inc.
- APS Testing
- EXP
- NTBA
- Southeastern Archaeological Research, LLC

Traffic Engineering Process and Report Training

⌂ Public Involvement - Public Involvement will be handled by designated team member

Minimum Personnel Requirement Nos. (#)

DOTD — LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Project Principal/ Project Manager

- Janet Evans, PE, MBA (1,2,3)

Assistant Project Manager

Environmental	Engineering
Jason Goffinet, REPA (5) ⌂	Hossein Ghara, PE, MBA

ENVIRONMENTAL

NEPA/EIS

- Larissa King Rawlins, AICP
- Jonathan Cox (4)
- Shirley Nichols

Air & Noise Analysis

- Thomas Lee (6) ⌂

Geological Investigation

- Ian Chaney (19)
- Charlie Wildman (19)
- Harold Kenneth Wilson, PE

Wetlands & Threatened Endangered Species Survey

- Paige Felts, CPESC (7) ⌂
- Trent Farris, PWS, CWB, ESA-C (8)

Hazardous Materials/Phase I ESA

- Evan Reid, CPESC (12)

Navigational Analysis

- Jacob Parker, PE (20)
- John Garlanger, Ph.D., P.E.

Cultural Resources

- Kofi Ghanmbaane, PhD, RPA
- Amber Ray
- Timothy Parsons, PhD, RPA (9)
- Matt Nowak, MA, RPA
- Jessica (Fish) Muse, MSt, RPA
- Christina Slattery (10)
- Emily Pettis (11)

ENGINEERING

Bridge Studies

- Ahmed Rageh, PhD, PE
- Artur D'Andrea, PE ⌂
- Christian Duncan, PE (MS)
- Gabriel Rice, EI
- Chase Morgan, EI (MS)
- Jonathon Seddelmeyer, PE (14,15)
- Trevor Johnson, PE (14)
- Mark Shlyakov, PE (14)
- Tam Leung, PE (14,15)
- Joshua Jackson, PE
- Ishwarya Skikanth, PE
- Chirag Chirag, PE

Roadway & Drainage Studies

- Ashley Beckendorf, PE (22) ⌂
- Walton Mitts, PE (MS) (23) ⌂
- Ryan Ordeneaux, PE
- Allen Carlisle, PE, CFM (MS)
- Jose Santiago, PE
- Qian (Cherry) Xiong, PE

Geotechnical

- Megan Bourgeois, PE (16, 17)
- Mark Woodward, PE (18)
- Robert Jewell, PE
- Ross McGillivray, PE
- Evelio Horta, PH.D., PE, GE
- Jessica N. Litt
- Donald Anthony
- Sergio Aviles, P.E., M.ASCE
- Sairam Eddanapudi, P.E., M.E.
- Surendra Pathak, P.E., M.S.

Survey

- Clinton Patrick, PE, PLS (24)
- Randy Denmon, PE, PLS (25)
- Bryan Bunch, PLS
- Mike King, PLS

Traffic Studies

- Hadi Shirazi, PE, PTOE (21) ⌂
- Jonathan Gambino, PE, PTOE, RSP1 ⌂
- Angelo "Trey" Pecoraro, EI

ENHANCED PLANNING SUPPORT

Conceptual Relocation

- Micah Fremin (13)

Cost Estimator

- Reggie Jeter, PE (26)
- Amir Fouladgar, PE

Technicians

- Perry LeBlanc
- John Alikhani
- Robyn Tate
- Chad Fisher

SUE

- Amy K. Schulze, PE, CFM

SECTION 15 | MINIMUM PERSONNEL REQUIREMENTS

Bookmarks added to pdf for ease of review.

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	State of license	License / certification expiration date
1	Janet L. Evans, PE, MBA	Volkert, Inc.	PE # - Civil 21307	LA	09/30/2026
2	Janet L. Evans, PE, MBA	Volkert, Inc.	PE # - Civil 21307	LA	09/30/2026
3	Janet L. Evans, PE, MBA	Volkert, Inc.	PE # - Civil 21307	LA	09/30/2026
4	Larissa King Rawlins, AICP	WSP USA Inc.	see reume for qualifications		
5	Jason Goffinet, REPA	Volkert, Inc.	N/A	N/A	N/A
6	Thomas Lee	Volkert, Inc.	N/A	N/A	N/A
7	Paige Felts, CPESC	Volkert, Inc.	N/A	N/A	N/A
8	Trent Farris, PWS	Volkert, Inc.	N/A	N/A	N/A
9	Timothy Parsons, PhD, RPA	Southeastern Archaeological Research, LLC (SEARCH)	Archaeology RPA #989337	N/A	N/A
10	Christina Slattery	Mead and Hunt, Inc.	Architectural Historian meets SOI Standards	N/A	N/A
11	Emily Pettis	Mead and Hunt, Inc.	Completion of Section 106 course	N/A	N/A
12	Evan Reid, CPESC	Volkert, Inc.	N/A	N/A	N/A
13	Micah Fremin	Volkert, Inc.	N/A	N/A	N/A

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	State of license	License / certification expiration date
14	Jonathon Seddelmeyer, PE Trevor Johnson, PE Mark Shlyakov, PE Tam Leung Kwok, PE	WSP USA Inc.	PE #49811 - Civil PE #45518 - Civil PE #38927 - Civil PE #0049091 - Civil	LA	09/30/2025 09/30/2025 09/30/2026 09/30/2026
15	Jonathon Seddelmeyer, PE Tam Leung Kwok, PE	WSP USA Inc.	PE #49811 - Civil PE #0049091 - Civil	LA	09/30/2025 09/30/2026
16	Megan Bourgeois, P.E.	Ardaman & Associates, Inc.	PE # - Civil 0036725	LA	03/31/2026
17	Megan Bourgeois, P.E.	Ardaman & Associates, Inc.	CPE # - Civil 0036725	LA	03/31/2026
18	Mark Woodward, P.E.	Ardaman & Associates, Inc.	PE # - Civil 0024206	MS	09/30/2025
19	Ian Chaney Charlie Wildman, PE	WSP USA Inc.	N/A PE #42928 - Civil	LA	N/A 03/31/2027
20	Jacob Parker, PE	Volkert, Inc.	PE # - Civil 30596	LA	09/30/2025
21	Hadi Shirazi, PE, PTOE	Volkert, Inc.	PE # - 27415 PTOE	LA	09/30/2025
22	Ashley Beckendorf, PE	Volkert, Inc.	PE # - Civil 37334	LA	03/31/2027
23	Walton Mitts, PE	Volkert, Inc.	PE # - Civil 29188	MS	12/31/2026
24	Clinton Patrick, PE, PLS	Volkert, Inc.	PE # - Civil 40919 PLS # 5311	LA	03/31/2027 09/30/2025
25	Bryan Bunch, PLS	NTB Associates, Inc.	PLS # 5014 - Survey	LA	9/30/2025
	Randy Denmon, PE, PLS	Volkert, Inc.	PE # - Civil 29390 PLS # 4798	LA LA	03/31/2027 03/31/2027
26	Reggie Jeter, PE Joshua Jackson, PE	Volkert, Inc. EXP US Services, Inc.	PE # - Civil 23259 PE # - Mechanical 45617	LA LA	09/30/2025 09/30/2025

SECTION 16 | STAFF EXPERIENCE

Resumes included in the following order:

Jan Evans, PE, MBA | MPR #1,2,3
Jason Goffinet, REPA | MPR #5
Hossein Ghara, PE, MBA
Reggie Jeter, PE | MPR #26
Thomas Lee | MPR #6
Paige Felts, CPESC| MPR #7
Trent Farris, PWS, CWB, ESA-CE| MPR #8
Evan Reid, CPESC | MPR #12
Kofi-Nsiah Mustapha Ghanmbaane, PhD, RPA
Amber Ray, HMP
Ahmed Rageh, PhD, PE
Artur D'Andrea, PE
Jacob Parker, PE | MPR #20
Gabriel Rice, EI
Chase Morgan, EI

Ashley Beckendorf | MPR #22
Walton Mitts | MPR #23
Ryan Ordeneaux, PE
Allen Carlisle, PE, CFM
Chris Duncan, PE
Hadi Shirazi, PE, PTOE | MPR #21
Jonathan Gambino, PE, PTOE, RSP1
Angelo "Trey" Pecoraro, EI
Clinton Patrick, PE, PLS | MPR #24
Randy Denmon, PE, PLS| MPR #25
Micah Fremin, R/W-RAC| MPR #13
Perry Leblanc
Chad Fischer
Robyn Tate
John Alikhani

Bookmarks added to pdf for ease of review.

16. Staff Experience:

	Firm employed by: Volkert, Inc.			
	**Janet L. Evans, PE, MBA** | *Vice President/Principal-in-Charge*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	26
	Degree(s) / Years / Specialization	MBA |1986 |Business Administration BS |1980 |Civil Engineering	Year registered	1984
	Active registration number / state / expiration date	21307 | LA | 9/30/2026	Discipline	Civil

MPR 1,2,3

Contract role(s) / brief description of responsibilities:
Ms. Evans will be serving as Principal/Supervisor. Ms. Evans fulfills Minimum Personnel Requirements #1, 2, and 3.

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).
	Ms. Evans joined Volkert in 2008 and has over 40 years of roadway and bridge project management and design experience in design and construction of transportation projects. This includes urban freeway design, stage 0 studies, capacity improvements, (lane additions), environmental justice and interchange modifications as well as both traditional design and an alternative design build considered confined work zones, traffic queuing and limited lane closures and development of construction sequencing for the high average daily traffic volume interstates. Her combination of construction and design experience has been utilized by the department in various alternative delivery projects including the development of draft CMAR guidelines and the development of a design build construction manual. Ms. Evans experience from both the construction side and the design side allow her to provide insight which aids in the resolution of issues in alternative delivery projects. She has 10 years of experience serving as a Project Manager on DOTD alternative delivery projects.
05/23 - 05/28 (est.)	**Jimmie Davis Bridge (LA511) (HBI) (Owner Verification Services).** Volkert is responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Manual and Document Control. As the Owner Verification firm, Volkert is providing guidance and support to the DOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the DB contractor adheres to their contract, and address other assignments as directed. Volkert is verifying that all the DB Contractor submittals (i.e., Safety Plan; FAA permits; US Coast Guard Permits; USACE permits; Quality Manual; etc.) conform with the DB Contractor contract documents (Final RFP) and that all required meetings (i.e., Pre-Work Conference; Design Mobilization meeting; Site Mobilization meeting; Progress Meetings; Design Reviews, etc.) are held and meeting minutes are taken. During Construction, Volkert staff provides QA inspection oversite in the field and review all material certifications and work to verify DB Contract Documents are met.
06/20 – 08/24	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements.** Principal-in-Charge. Ms. Evans is serving as Project Principal for the Belle Chasse Bridge and Tunnel Improvements. Volkert is responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert provides guidance and support to the DOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 team adheres to their contract, and address other assignments as directed.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
09/20 – 11/22	**Owner Verification Services for College Drive Flyover Ramp (I-10/I-12 west) in East Baton Rouge Parish for the Louisiana Department of Transportation and Development (DOTD).** Ms. Evans served as Principal-in-Charge for this project that consisted of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Volkert provided all necessary engineering services as part of this Design-Build/Owner Verification project. This included design reviews for bridges, roads, hydraulics, electrical and ROW Acquisition efforts as well as contract administration, scheduling, document control, and construction phase services. SP No. 4400019680, S.P. No H.013897.
08/17 - 02/20	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (DOTD).** Ms. Evans is serving as Principal-in-Charge for the Owner Verification Team (OVT) on Task Orders 3 & 4 which allows Volkert to provide procurement and project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. She is responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consists of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility including construction of a new six-lane I-10 overpass at Highland Road. This was the fastest procured design-build today in DOTD History. State Contract No. 4400004915 TO 3 & 4, S.P. No. H.009250.
04/18 - 04/19	**I-220 to Barksdale AFB Connector Design-Build Procurement, Bossier Parish, LA (DOTD).** Ms. Evans served as Principal-in-Charge for Volkert's team as they completed preliminary construction cost estimates and reviewed preliminary engineering layouts from DOTD to help assess impacts, constructability design issues. She also helped produce the Performance Specifications, worked with DOTD staff in each category for project specific design issues to be addressed. She also assisted in the preparation of the Public Information Meetings and the One-on-One meetings with the shortlisted Design-Build teams for this $71.8 M Design-Build project. State Contract No. 4400004915 TO 5, S.P. No. H.003370.
09/14 - 09/21	**Retainer Contract for Design Build/Alternative Delivery Projects, DOTD.** Volkert was selected for a five-year retainer contract to perform engineering and administration services for project initiation, procurement, design and construction contract administration, project oversight and acceptance for both design and construction projects. The project consisted of project initiation, procurement, design and construction contract administration, project oversight and acceptance support for both design and construction, development of documents, polices, and procedures, as well as document control of Alternative Delivery projects (Design-Build, CMAR, P3, etc.) and services for proposed projects covered by this contract, as issued in task orders (TO) through the Louisiana Department of Transportation and Development (DOTD).
02/10 - 01/14	**I-10 Widening Design-Build | Siegen Lane Interchange – the Highland Road Interchange, East Baton Rouge Parish, LA (DOTD) |** Ms. Evans was the Design QA/QC Manager and Designer of Record for this project. As such, Ms. Evans worked closely with all designers and the contractor on this $100M Design-Build project. She was responsible for writing the design QC manual and ensuring that the procedures with the manual were implemented and followed. She was responsible for the monthly reporting of all design and design QA/QC activities to the DOTD. As Designer of Record, Ms. Evans handled all communication between the contractor and the engineering sub-consultants on the project, including Traffic Engineering and Geotechnical Engineering. She was in daily communication with the Contractor to ensure that the schedule and budget was met. Ms. Evans was also involved in the prebid activities which included preliminary plan development, maintenance of traffic phasing and quantity estimates for the contractor prior to contract award. This project was awarded an ACI Merit Award. | S. P. No. 450-10-0159
01/09 - 01/13	**I-12 Widening Design-Build Project from O'Neal Lane Interchange – Pete's Highway (DOTD).** Ms. Evans served as Principal-in-Charge for this project that consisted of widening I-12 to 3 lanes in each direction (6 lanes total) between the O'Neal Lane/Pete's Highway interchange and Range Road. The additional lanes will be constructed in the median. The bridges at the Amite River and the relief bridges will be replaced by a single bridge more than 2,600 feet long. The existing roadway and earth fill between the old bridges will be removed. Volkert's services included roadway design, electrical design, permitting compliance, QA/QC assistance, permitting, environmental compliance, public involvement, independent quality control, and engineering during construction. | S. P. No. 454-01-0047 & 454-02-0025

Firm employed by: Volkert, Inc.

Jason Goffinet, REPA | *Environmental Assistant Project Manager/ Public Involvement*

MPR 5

Years of relevant experience with this employer	20		
Years of relevant experience with other employer(s)	10		
Degree(s) / Years / Specialization	BS | 1995 | Environmental Science BS | 1995 | Biology	Year registered	2007
Active registration number / state / expiration date	6309 | REPA | 3/26/2026	Discipline	Environmental

Contract role(s) / brief description of responsibilities:
Mr. Goffinet will be serving as the Environmental Assistant Project Manager and provide public involvement services. Mr. Goffiner fulfills Minimum Personnel Requirement #5.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).

Mr. Goffinet has over 30 years of experience in preparing environmental documents including EISs, EAs, CEs, and corridor/feasibility studies for transportation projects in accordance with the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321 et. seq.). His experience encompasses all stages of project development beginning with the development of the concept, preparation of the need and purpose statement, justification of the termini and continuing through the agency coordination, community outreach and public involvement process, preparation of the NEPA document and subsequent re-evaluations and preparation of construction permits. He has written NEPA documents that address a multitude of complex issues including community, socio-economic and demographic impacts to resources protected under Section 4(f) (publicly owned parks, wildlife refuges, historical sites), Section 6(f) (lands acquired with Land and Water Conservation Act funds), Section 106 (historic resources), Section 7 (protected species), Section 404 (waters of the US including wetlands), EO 12898 (Environmental Justice), FHWA's EJ Order 6640.23A, DOT's EJ Order 5610.2(a), and EO 13166 (Limited English Proficiency). Mr. Goffinet has also written numerous technical reports including EJ community impact assessments and indirect and cumulative impact assessments and has performed air quality assessments and complex noise analyses using the latest models. He has served as a Senior Project Planner and Environmental Project Manager with responsibility for coordinating and preparing environmental documents for federal, state, municipal, and private sector projects. He has managed NEPA documents and provided community outreach/public involvement services in the multiple states. Mr. Goffinet's certifications include:

- Registered Environmental Property Assessor (REPA) #6309 (2007)
- Florida Department of Transportation (FDOT) Traffic Noise Analysis Certificate #175
- FHWA/ALDOT, Applying Section 4(f): Putting Policy into Practice (NHI Course 142073), 2015
- GDOT/FHWA Environmental Impact Assessment, 2007
- GDOT Plan Development Process Training, 2006
- FDOT Efficient Transportation Decision-making Training, 2005
- FHWA/NHI NEPA and Transportation Decision Making Course 14205, 1999
- FHWA/ALDOT, Section 4(f) Workshop, 2004
- FHWA/EPA MOVES 2010 /CAL3HCR Hot-Spot Course, 2011
- TNM Software: FHWA Traffic Noise Model 1.0b (TNM) Course, 1999
- STAMINA Software: ALDOT, Highway Traffic Noise Analysis Training Course, 2000
- OPTIMA Software: ALDOT, Highway Traffic Noise Analysis Training Course, 2000
- TNM Software: FHWA Traffic Noise Model 2.0 (TNM) Course, 2002
- Traffic Noise Analysis, Course BT-19-0005, FDOT, Environmental Management Office, 2002
- Transportation Research Board Conference AI F04, Transportation-Related Noise and Vibration Conference, 2001

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
06/24 - 12/25	**Gonzales Solar Farm**. Mr. Goffinet provided NEPA support services to assist in the EPA's Categorical Exclusion (CATEX) determination for the proposed solar system at the Gonzales Environmental Enhancement Facility. As contract manager his responsibilities included preparing the scope and fee and providing NEPA oversight/QC.
08/11 - 02/21	**LA 406 for the New Orleans Regional Planning Commission and the LADOTD, Plaquemines and Orleans Parishes, Louisiana**. Environmental Project Manager and NEPA Writer for widening LA 406 between LA 23 (Belle Chasse Hwy) and LA 407 (Gen. De Gaulle Blvd) in Plaquemines and Orleans Parishes, LA for NORPC, coordinated with LADOTD. The project involved a Stage 1 Environmental Assessment to document potential environmental concerns associated with the widening of LA 406 from two to four lanes between LA 23 (Belle Chasse Hwy) and LA 407 (Gen. De Gaulle Blvd). The study corridor for the project was approximately 3.8 miles. Volkert was responsible for completing the EA in accordance with NEPA. Volkert oversaw cultural resource surveys, environmental, drainage design, and topographic surveys and coordinated with LADOTD, FHWA, Plaquemines Parish, and the City of New Orleans to ensure all issues were addressed in the development of the project. Mr. Goffinet was responsible for the environmental analyses and wrote the EA.
03/16 - 12/18	**I-10/Loyola Drive Interchange Improvements, New Orleans, Jefferson Parish, Louisiana for LADOTD.** Volkert prepared the noise and air studies for an EA/FONSI studying modifications to the existing I-10/Loyola Drive Interchange. The modifications are needed to accommodate the increased traffic associated with the relocation of the Louis Armstrong New Orleans International Airport (MSY) terminal. The interchange will become the primary entrance to the terminal and the addition of airport traffic is projected to worsen existing traffic conditions and result in congestion on mainline I-10 in the future. For this reason, the I-10/Loyola Drive Interchange was studied to determine if modifications are necessary to ensure acceptable operating conditions through the 2040 design year. Volkert was tasked to conduct the noise, air, socio-economic and environmental justice analyses for the project and assisted with public involvement activities. The noise analysis was performed using the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) Version 2.5. The noise analysis included model validation measurements at 11 locations and highly complex noise modeling that included 1,138 receptor sites. The noise analysis also included the evaluation of several noise barriers including at-grade and structure mounted noise barriers. The draft EA was approved by the FHWA in October 15, 2018.
02/15 - 08/11	**LA 1088, St. Tammany Parish, Louisiana for the LADOTD**. Volkert prepared the noise and air studies for an EA/FONSI studying improvements to LA 1088 between LA 59 and the I-12 interchange westbound ramps. The purpose of the proposed improvements to LA 1088 was to reduce existing congestion and accommodate future traffic demands. Operational improvements were also needed due to existing and projected traffic volumes and the poor level of service at the intersections. The total length of the proposed project was approximately 3.5 miles. LA 1088 is a suburban highway which runs generally in a northeasterly direction from the intersection of LA 59 north of Mandeville to an intersection at LA 36 east of Abita Springs. LA 1088 is an undivided two-lane highway from LA 59 for approximately 2.7 miles where it transitions into a four-lane divided section running approximately 0.8 mile to an interchange at I-12. Past the I-12 interchange, LA 1088 continues as a two-lane undivided highway for approximately 7.5 miles to the intersection at LA 36. The entire LA 1088 corridor in St. Tammany Parish. The noise levels were analyzed for the Existing, and future 2033 No-Build and three (3) proposed build alternatives. The noise analysis was performed using the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) Version 2.5. The noise barrier analyses were also performed using the TNM model. The final EA was approved by the FHWA in October 2019.
04/09 - 03/12	**I-12 Design Build.** Environmental Project Manager. The project, from the O'Neal Lane/I-10 Interchange to Pete's Highway (eastbound) consists of widening I-12 from 2-lanes in each direction to 3-lanes in each direction (6 lanes total) and reconstruction of the existing lanes. Volkert was responsible for scour analysis for the substructure of the new Amite River Bridges, permitting, environmental compliance, public involvement, independent quality control, and engineering during construction. Scour analysis was accomplished by modifying the Amite River hydraulics model using HEC-RAS to include the substructure for the new bridge replacements.

Firm employed by: Volkert, Inc.

Hossein Ghara, PE, MBA	*Engineering Assistant Project Manager*	Years of relevant experience with this employer	7
		Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization	MBA | 1986 | Business Administration BS | 1976 | Civil Engineering	Year registered	1980
Active registration number / state / expiration date	18899 | LA | 3/31/2027	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Ghara will serve as the Engineering Assistant Project Manager.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Prior to joining Volkert in September 2018, Mr. Ghara worked for a consulting engineering firm for over 4 years. Prior to that, he served as the LADOTD State Bridge Engineer for 12 years. In this capacity, he administered and managed a major Section in Louisiana LADOTD as an appointing authority overseeing staff ranging from 65 to 110 people, comprising of primarily Civil and Structural Engineers, Electrical and Mechanical Engineers as well as many Engineering Technician. He served in several AASHTO Technical Committees nationwide such as Chair the Tech. Committee on Bridge and Tunnel Security, T-1 and member of the Tech. Committee on Concrete Design, T-10. He recently renewed his ATSSA Traffic Control Supervisor, Technician and Flagger certifications. While serving as State Bridge Design Engineer, he oversaw the rehabilitation work done to the Huey P. Long Bridge and construction of the John James Audubon bridge, which was Louisiana's first Design-Build bridge and is currently North America's longest Cable Stay Span Bridge.
09/22 - 09/27 (est.)	**District 04 IIJA Off-System Bridge Program, LADOTD.** Volkert has been selected to assist the LADOTD in the selection of eligible bridge structures to be replaced, designed, and constructed under the Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program. Mr. Ghara is the Senior Project Manager assisting in the Phase 1 preliminary screening matrix and bridge selection process based on a set budget provided; ultimately moving the selected bridges to construction while coordinating with the LADOTD and local stakeholders. Volkert is performing Hydraulic Analysis and Bridge Design services. Volkert will evaluate each site and provide a recommended drainage alternate type and applicable dimensions, as well as perform the hydraulic design of the drainage structure in accordance with the LADOTD Hydraulic Design Guidelines for the Off-System Bridge Replacement and Rehabilitation Program manual
02/20 – 08/24	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemines Parish (LADOTD).** Mr. Ghara is serving as project manager for the Belle Chasse Bridge and Tunnel Improvements. Volkert will be responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 adheres to their contract, and address other assignments as directed.
06/20 – 8/24	**Causeway Shoulder Bay Improvements, Jefferson Parish, LA for Greater New Orleans Expressway Commission.** Mr. Ghara's served as Structural Engineer and his responsibilities include design of basic safety plan and elevation, design of girders, design of cable tray attachment and miscellaneous electrical details, design of sign support details and design of transition barriers. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
05/20 - 05/21	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA for the LADOTD.** Mr. Ghara is serving as Structural Engineer for Volkert's team. He is responsible for all project oversight for the Design and Construction on this$71.8M Design-Build project. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the overpass of the KCS RR. The project terminus will tie to a BAFB roadway project

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).].
	creating a new access location for the base. State Contract No. 4400016173, S.P. No. H.003370.6.
04/18 - 01/20	**I-12 to Bush: LA 435 - LA 40/LA 41 for T. Baker Smith and the LADOTD.** As a sub-consultant to T. Baker Smith, Volkert provided bridge and road design services as necessary to complete the submittal of Stage 3 Design, Part III Preliminary Plans. Volkert was responsible for the review of the environmental study, traffic date, parish maps, aerial photos, and LADOTD roadway classification.
05/19 - 07/20	**I-12 Widening (US 190 to LA 59) Route I-12, St. Tammany Parish for T. Baker Smith, LLC and the LADOTD.** Mr. Ghara served as Structural Engineer. Volkert is responsible for bridge design, road design, and ICE/CPM which includes all engineering services necessary to complete the submittal of Stage 3 Design, Part III, Preliminary Plans and Part IV, Final Plans. This project is to widen and rehabilitate I-12 to the median side from a four lane freeway to a six lane freeway section in both the East and Westbound direction. The project begins just west of US 190 and ends just east of LA 59 for approximately 4 miles.
09/18 - 07/20	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LADOTD).** Mr. Ghara served as Review Engineer for the Owner Verification Team on Task Order 4 which allowed Volkert to provide project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. He was responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consisted of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility. |State Contract No. 4400004915 TO 4, S.P. No. H.009250.
09/18 - 06/19	**US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build, Lafayette Parish, LA (LADOTD).** Mr. Ghara served as Review Engineer for the Owner Verification Team on Task Order 6 which allowed Volkert to provide project oversight and acceptance for both design and construction for the US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build Project in Lafayette Parish. Volkert's Baton Rouge office was responsible for all project oversight for the Design and Construction on this $57M Design-Build Project. This project consists of upgrading a portion of US 90 in Lafayette Parish to a six-lane controlled access facility. | State Contract No. 4400004915 TO 6, S.P. No. H.010620.
Prior to Joining Volkert	Mr. Ghara served as the Louisiana LADOTD State Bridge Engineer for 12 years. In this capacity, administered and managed a major Section in Louisiana LADOTD as an appointing authority overseeing staff ranging from 65 to 110 people, comprising of primarily Civil and Structural Engineers, Electrical and Mechanical Engineers as well as many Engineering Technician. Mr. Ghara oversaw the State's Bridge Preservation Program which resulted in an average yearly bridge construction program of $180M in addition of $50 to $100M of On and Off System Bridge Construction projects. Mr. Ghara oversaw Four Structural Design offices, each managed by an administrator serving the State Bridge Engineer as assistants. Consultant Management, Bridge Rating, Mechanical Engineering, Electrical Engineering. As State Bridge Engineer, he was the primary and the only voting member of the American Association of State Highways and Transportation Officials AASHTO Subcommittee on Bridges and Structures. While serving as State Bridge Design Engineer, he participated in the replacement and restoration of several major bridge structures such as the 1-10 Twin Spans, US 90 Vertical Lift Bridge over the Inner Harbor Navigation Canal in Danziger, US 11 Bridge over Lake Pontchartrain and several other Movable Bridges.

Firm employed by: Volkert, Inc.

Reggie Jeter, PE | *CPM Scheduler/Cost Estimator*

MPR 26

Years of relevant experience with this employer	9		
Years of relevant experience with other employer(s)	25		
Degree(s) / Years / Specialization	MBA | 1984 | Civil Engineering BS | 1981 | Civil Engineering	Year registered	1989
Active registration number / state / expiration date	23259 | LA | 9/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Jeter will serve as CPM Scheduler/Cost Estimator.

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).

Mr. Jeter joined Volkert in 2016 and has over 34 years in the highway and heavy construction industry a chief estimator, scheduler and an engineer for projects ranging in size from $3,500.00 to $56 million. He has estimated most facets of construction, including: Clearing and grubbing; Demolition and removals; Earth- work; Erosion control; Base courses and soil stabilization; As-phalt pavement; Asphalt milling; Concrete pavement; Storm drainage including pipe, box culverts and drainage structures; Riprap and revetment; Walks, drives, incidental concrete paving, curb & curb and gutter; Seeding, fertilizing and mulching; Erosion control systems; Temporary detour roads and bridges; Bedding material; Construction layout; Structural excavation; Sheet piles; Driven piles; Structural con-crete including headwalls, retaining walls, bridges (pile caps, decks, barrier rail and approach slabs), cast in place box culverts. Bridge estimating includes widening and rehabilitation of pre-stressed concrete girder bridges. He has been in the consulting business specializing in CPM scheduling by utilizing Primavera projects exclusively including the current version of P6. His use of P6 dates back to 2011. He also has served as Assistant Professor at Louisiana Tech University in the Civil Engineering Department from 1984 to 1987. He has been the Professional-in-Residence at Louisiana Tech since December 2015. As required by this project, Mr. Jeter has over ten years of experience with contractor style estimating (he currently has almost twenty years). He has local knowledge of labor; equipment and the materials market and construction means and methods. His estimation experience combined with his teaching experi-ence covers both rehabilitation and widening of pre-stressed concrete brides and steel plate girder structures.

06/20 – 08/24	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemine Parish (LADOTD)** | Mr. Jeter served as CPM review for the Belle Chasse Bridge and Tunnel Improvements. Volkert was responsible for providing all Engineering Design and Construction Support services including implementation of the Con-struction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. As the OVT, Volkert provided guidance and support to the LDOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 team adheres to their contract, and address other assignments as directed.
12/17 - 12/20	**Causeway Shoulder Bay Design, Jefferson and St. Tammany Parishes, LA (Greater New Orleans Expressway Commission)** | Mr. Jeter was responsible for conducting independent cost estimating on this project. Volkert was selected to design essential and long-awaited shoulder additions. The bridge shoulders, comprising 12 "shoulder bays," will provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emer-gency personnel in the event of a crash. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
05/19 - 12/21	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (LADOTD)** | Mr. Jeter is reviewing the CPM schedule for Volkert's team on this $71.8M Design-Build project. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the over- pass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
02/20 - 07/20	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LADOTD) |** Mr. Jeter reviewed full CPM for Task Orders 3 & 4 which allows Volkert to provide procurement and project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish $72M Design-Build project. This project consists of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility including construction of a new six-lane I-10 overpass at Highland Road. | State Contract No. 4400004915 TO 3 & 4, S.P. No. H.009250.
06/18 – 03/19	**US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build, Lafayette Parish, LA (LADOTD) |** Mr. Jeter is serving as CPM Review Engineer for the OVF on Task Order 6 which allows Volkert to provide project oversight and acceptance for both design and construction for the US 90(I-49South) Albertson Parkway to Ambassador Caffery Design-Build Project in Lafayette Parish. Volkert's Baton Rouge office is responsible for all project oversight for the Design and Construction on this $57M Design-Build Project. This project consists of upgrading a portion of US 90 in Lafayette Parish to a six-lane controlled access facility. | State Contract No. 4400004915 TO 6, S.P. No. H.010620.
08/06 – 08/11	**I-10 Twin Span Bridge Over Lake Pontchartrain Low Level Portions and Main Spans in Orleans and St. Tammany Parishes, LA (LADOTD)**. The new bridge was designed for a 100-year life and built 300 feet to the east of the existing bridge. The bridge has an elevation of 30 feet, 21 feet higher than the existing bridge, with an 80-foot high-rise section near the Slidell side to allow for marine traffic and withstand a much higher storm surge. The 60-foot width of each span included three 12-foot lanes and two 12-foot shoulders on each side. The bridge was designed to include reinforced concrete walls to increase storm surge resistance and minimize the effects of any barge collision. Mr. Heraty served as Construction and Inspection Engineer for this project.

Firm employed by: Volkert, Inc.

Thomas Lee | *Air & Noise Analysis/Public Involvement*

MPR 6

Years of relevant experience with this employer	18		
Years of relevant experience with other employer(s)	0		
Degree(s) / Years / Specialization	MS | 2010 | Environmental Science BS | 2008 | Geography	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Lee will provide air and noise analysis and provide public involvement 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).

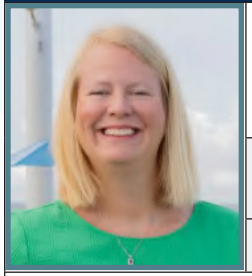
Mr. Lee joined Volkert in 2006 and assists with the development of National Environmental Policy Act (NEPA) documentation and GIS services for environmental, civil, and utility infrastructure repair and design projects. His specific duties include developing environmental avoidance and constraints mapping, compiling field data, and conducting noise studies. For various projects, Mr. Lee has been instrumental in producing excellent imagery from which field personnel can determine basic locational information. Through the overlay of project boundaries over high-quality aerial photography, Mr. Lee's photo imagery allows the field scientists to determine vegetative boundaries and delineate them as necessary using GPS instrumentation with an accuracy of inches. He downloads stored GPS data points and associated comments into a new, delineation product for further review and correction before producing final project mapping. He has helped develop land use mapping associated with transportation projects. Mr. Lee is also trained in noise and air analysis, having completed numerous air and noise models for transportation projects throughout the Southeast. Mr. Lee's certifications include:

- NHI/FHWA Course #142005 NEPA and Transportation Decision Making
- NHI/FHWA Course #142073 Putting Policy into Practice
- FHWA Traffic Noise Model 2.5: Traffic Noise Fundamentals
- FHA: NEPA Air Quality Analysis for Highway Projects Course
- FDOT PD&E Manual Webinar Training Course # BT-19-0034
- GDOT Environmental Procedures Manual Air Quality
- GDOT Environmental Procedures Manual Noise Assessments

03/16 - 06/22	**Noise and Air Analyst for Waterway East Boulevard Corridor Study, for the City of Gulf Shores, AL.** The project consisted of a corridor study for the extension of Waterway East, from existing Waterway East Boulevard north to south of CR 8, on the Foley Beach Express. It included a preliminary corridor investigation, study alternative developments, environmental studies, and public involvement efforts to determine the selected alternative. Volkert conducted engineering and environmental studies in order to complete the required NEPA documentation and permitting for the project. This included wetland delineation, T&E surveys, noise and air analysis, and cultural resource studies. Environmental Scientist for the PD&E Study for SR 30 (US 98) Gregory Street and Bayfront Parkway at the 17th Avenue Intersection in Pensacola, Florida for the Florida Department of Transportation (FDOT). Volkert analyzed and assessed capacity needs and ways to improve the flow of traffic through the 17th Avenue Intersection. The goal was to obtain a level of service of "D" or higher. Volkert's services included environmental and engineering studies, traffic analysis and simulations, as it relates to all social, economic, environmental effects, and mitigation as required by the PD&E Manual. Volkert also completed environmental documentation, engineering reports, developed preliminary plans and conducted public meetings.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
08/11 - 02/21	**Noise and Air Analyst for LA 406 for the New Orleans Regional Planning Commission and the LADOT, Plaquemines and Orleans Parishes, Louisiana. Noise and air analyst for widening LA 406 between LA 23 (Belle Chasse Hwy) and LA 407 (Gen. De Gaulle Blvd) in Plaquemines and Orleans Parishes, LA for NORPC, coordinated with LADOTD** | The project involved a Stage 1 Environmental Assessment to document potential environmental concerns associated with the widening of LA 406 from two to four lanes between LA 23 (Belle Chasse Hwy) and LA 407 (Gen. De Gaulle Blvd). The study corridor for the project was approximately 3.8 miles. Volkert was responsible for completing the EA in accordance with NEPA. Volkert oversaw cultural resource surveys, environmental, drainage design, and topographic surveys and coordinated with LDOTD, FHWA, Plaquemines Parish, and the City of New Orleans to ensure all issues were addressed in the development of the project.
03/16-12/18	**Noise and Air Analyst for I-10/Loyola IMR in Jefferson Parish, LA for LA DOTD c/o Urban Systems).** GIS Analysts for noise, air, socio-economic and environmental justice analyses for the project, provide NEPA guidance and QA, and assist with public involvement activities.
12/12-01/15	**Noise and Air Analyst for I-59/I-20 Bridge Rehabilitation in Jefferson County, Alabama for ALDOT.** This fast-tracked project will replace the bridge substructure & superstructure for Interstate I-59/I-20 in the Birmingham Central Business District of Downtown Birmingham with a segmental bridge. Volkert provided all engineering services required from conceptual design through final bid documents as well as environmental permitting/documentation and construction phase services. The environmental services included the preparation of the NEPA documentation (EA/FONSI) which included a thorough EJ analysis and extensive public involvement and community outreach activities. Through extensive coordination with the FHWA, ALDOT, and the communities Volkert was able to identify measures to avoid, minimize, and or mitigate for the impacts to the EJ communities impacted by the project. The draft EA was approved by the FWHA in March 2015. The final EA was approved in June 2015.
09/10-01/13	**Noise Analyst for I-12 Stage 0 Feasibility Study and Environmental Inventory in Livingston, Tangipahoa, and St. Tammany Parishes, Louisiana**. Preliminary design was accomplished in sufficient detail to determine costs and impacts. Cost estimates were accomplished for all alternatives including construction costs for roadway and new or modified bridges, utility relocations, right-of-way costs, potential noise walls, and environmental mitigation. An environmental inventory was accomplished to determine if there were any substantial environmental issues that may stop the addition of capacity or cause the cost to escalate due to mitigation. Feasibility was determined for each of the alternatives, and recommendations for the preferred alternative were developed and documented in Stage 0 Reports. Volkert accomplished overall project management, preparation of preliminary design including typical sections and plans, and preparation of cost estimates. As part of this study, Volkert accomplished a field review and evaluated over 100 Bridges to determine if they could be widened or should be replaced during a future widening on the I-12. Volkert separated the 72-mile corridor into segments which were prioritized based on need for additional capacity, cost, safety, and level of service. Mr. Lee assisted in performing and reviewing the noise analysis.

Firm employed by: Volkert, Inc.



Paige Felts, CPESC | *Wetlands & Threatened Endangered Species Survey/Public Involvement*

MPR 7

Years of relevant experience with this employer	22		
Years of relevant experience with other employer(s)	22		
Degree(s) / Years / Specialization	BS | 2002 | Civil Engineering BS | 1998 | Environmental Science	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:

Ms. Felts will provide wetlands and threated endangered species survey services and provide public involvement services. Ms. Felts fulfills Minimum Personnel Requirement #7.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).

Ms. Felts has been with Volkert since 2003 and has over 17 years of environmental experience. Her environmental project experience includes environmental permitting, coordination with state and federal regulatory agencies, identifying and delineatingn wetlands, defining alternatives for avoiding and minimizing impacts to wetland areas, wetland mitigation, submerged aquatic vegetation (SAV) surveys, Phase I Environmental Site assessments (ESA), developing Best Management Practices (BMP) Plans, and threatened and endangered species. Ms. Felts's certifications include:

- Certified Professional in Erosion & Sediment Control (CPESC) #8687
- FDEP Stormwater Management Inspector #28594

11/22 - 04/24	**As the selected Design-Builder for the I-10 Mobile River Bridge Main Span Cable-Stayed Bridge project (MRB), Kiewit Massman Traylor, a Joint Venture (KMT)**, has begun to collaborate with ALDOT in order to construct an aesthetically-pleasing cable-stayed bridge with a minimum 100-year service life and minimum 215-foot vertical clearance over the 600–foot wide Mobile River ship channel. The project will add capacity along I-10 between Virginia Street and the Mobile/Baldwin Co line to alleviate traffic congestion and facilitate economic growth while minimizing impacts to the maritime industry and meeting all requirements of the environmental documentation. There are five interchange modifications within this portion of the project. Volkert will provide engineering support for the five interchanges along the route as well as assist with bridge design including providing electrical design, utility relocation and environmental compliance. The goal is to begin construction by March 2024. Estimated Construction Cost $3.5 Billion.
02/15 – 06/16	**LA 1088 Corridor Study - Environmental Assessment in St. Tammany Parish for the LA DOTD**. The scope of services for this project consists of the preparation of an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA), and other applicable laws for the proposed project. The project proposes to improve the mobility and safety of vehicle, pedestrian and bicycle traffic along the LA 1088 corridor between LA 59 (Girod St.) and the I-12 westbound ramps in St. Tammany Parish. Volkert is responsible for evaluating the social, economic, and environmental consequences of the alternatives (including the no-build) and present this information in the EA document. In addition to the formal EA document and Finding of No Significant Impact (FONSI), Volkert developed separate reports including Wetland Finding, Phase I Environmental Site Assessment, Phase I Cultural Resources Survey Reports, Noise analysis, a Public Hearing and Conceptual Stage Relocation Plan, etc. Ms. Felts served as Environmental Scientist responsible for wetland delineation and permitting services.
01/09 - 07/12	**I-12 Design Build**. Project Scientist. The project, from the O'Neal Lane/I-10 Interchange to Pete's Highway (eastbound) consists of widening I-12 from 2-lanes in each direction to 3-lanes in each direction (6 lanes total) and reconstruction of the existing lanes. Volkert's services included roadway design, electrical design, permitting compliance, and QA/QC assistance on the design plans for this project. Design Plan Sets included clearing and grubbing, erosion control, and maintenance-of-traffic for

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
	coordination of phased construction. Design plans for signing and striping, paving, storm drainage improvements and construction details were also developed for the project. Volkert was also responsible for scour analysis for the substructure of the new Amite River Bridges, permitting, environmental compliance, public involvement, independent quality control, and engineering during construction. Scour analysis was accomplished by modifying the Amite River hydraulics model using HEC-RAS to include the substructure for the new bridge replacements.
09/20 – 11/20	**Phase 1 ESA Services for Sherwood Forest Extension, MoveBr, City of Baton Rouge**. Volkert will conduct an ESA for the area around the Sherwood Forest Extension in an effort to determine previous ownership of the site by conducting record reviews, site reconnaissance, interviews and development of a report detailing the previous uses of the site. A map will be developed that highlights site specific historical uses such as gasoline or dry-cleaning facilities that might have previously compromised the area. Ms. Felts served as Environmental Scientist responsible for permitting and site assessment services.
03/19 – 03/22	**Bon Secour Headwaters Restoration in Foley, Alabama for the City of Foley.** Residential development in the headwaters of the Bon Secour River has exploded over the past 10 years with subdivisions replacing farmland. Erosion and sedimentation are a primary issue from construction stormwater runoff. Urbanized and agricultural land uses in the headwaters of the watershed have contributed to nutrient loading that negatively affects water quality. Additionally, heavy concentrations of invasive plant species and litter have been documented within the proposed project area. The City of Foley secured grant funding through the NFWF Gulf Environmental Benefit Fund to purchase approximately 88 acres of property adjacent to the headwaters of the Bon Secour River to design and implement a restoration project. The goals were to restore water quality by reducing nutrient and sediment loads and enhance the existing natural wetland vegetation community by removing invasive species. Ms. Fels served as Environmental Project Manager responsible for the development of the permitting, compliance, and final report.
06/19 - 07/20	**Environmental Scientist for the Plank Road Realignment East Baton Rouge Parish, LA for the Baton Rouge Metropolitan Airport.** Ms. Felts served as Environmental Scientist responsible for permitting services. This project is for the relocation of Plank Road on a new alignment and includes all ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes all ROW acquisition and all the design for additional lanes along Harding and Hooper Road including the implementation of complete streets, a new lighting system and a new signalized intersection. Phase I of this project is nearing completion and Phase II is in an on-going traffic study. Ms. Felts served as Environmental Scientist responsible for permitting services. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection.
04/18 - 07/19	**Environmental Project Manager for the Wolf Bay Watershed Management Plan (WMP) Phases I& II) for the MBNEP.** The MBNEP received funding from the National Fish and Wildlife Foundation (NFWF) Gulf Environmental Benefit Fund (GEBF) to develop a comprehensive WMP for the Wolf Bay Watershed in Baldwin County, Alabama. The MBNEP has chosen the Volkert/Allen ES Team to develop a comprehensive Watershed Management Plan to provide an assessment of the Wolf Bay watershed with the goal of improving water and habitat quality in Wolf Bay. The watershed planning process uses distinctive steps to characterize existing conditions, identify and prioritize problem areas,
11/14 – 11/15	**Magnolia Bridge Environmental Assessment, Orleans Parish, LA (NORPC)**. Ms. Felts served as Environmental Scientist responsible for permitting services. The RPC asked Volkert to conduct a thorough structural and safety inspection of the bridge and complete a Stage 1 environmental and feasibility study for a repair and revitalization project. Volkert previously provided the bridge inspection and report according to NBIS and LA DOTD requirements. Volkert's environmental team led a Stage 1 Environmental Analysis for the rehabilitation of the bridge. The team coordinated with relevant local, state, and federal agencies, evaluated alternatives and their environmental impact, and solicited the views of stakeholders and the public. The resulting documentation supported a finding of a Categorical Exclusion, signifying that the project will not have a significant environmental impact on the historical bridge or its surroundings.

Firm employed by: Volkert, Inc.

Trent Farris, PWS, CWB, ESA-CE | *Wetlands & Threatened Endangered Species Survey*

MPR 8

Years of relevant experience with this employer	23		
Years of relevant experience with other employer(s)	7		
Degree(s) / Years / Specialization	BS | 1992 | Wildlife Science	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Farris will provide wetlands and threated endangered species survey services. Mr. Farris fulfills Minimum Personnel Requirement #8.

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).

Mr. Farris joined Volkert in 2002 and has over 30 years of experience, including 7 years as a U.S. Fish & Wildlife Service (USFWS) Endangered Species Permittee. His project experience includes environmental permitting, public involvement and coordination with state and federal regulatory agencies, identifying and delineating wetlands, defining alternatives for avoiding and minimizing impacts to wetland areas, wetland mitigation, submerged aquatic vegetation surveys, Phase I Environmental Site Assessments (ESA), developing Best Management Practices (BMP) Plans, and completing threatened and endangered species surveys. Mr. Farris' certifications include:

- Professional Wetland Scientist #1973
- Certified Ecologist
- Certified Wetland Biologist
- Voucher for presence of Wildlife in an area Permit #WV04157, FL FWS; USFWS Endangered Species
- Recovery Permittee- AL & FL #TE064856-2

07/17 - 01/24	**Ecologist for the Tiawasee Montclair Stream Restoration in for both the City of Daphne and Mobile Bay National Estuary Program in Daphne, Alabama.** Highly erodible soils coupled with an urbanized watershed resulted in years of head-cutting of area waterways in Daphne, Alabama. This project sought to restore 1040 linear feet of perennial stream channel which had incised and detached from the adjacent floodplain. The project was constructed in two phases through two clients due to funding limitations Volkert performed the geomorphic assessment of the project reach, coordinated the acquisition of nearly two dozen easements, performed 1-dimensional hydraulic analysis of the design, coordinated utility upgrades prior to stream restoration and performed the construction observation for the project. This project won the Environmental Stewardship Award from the Partners for Environmental Progress (PEP).
04/18 - 01/21	**Ecologist for the Three Mile Creek (TMC) Invasive Species Control Plan Support for EnviroScience, Inc., for the Mobile Bay National Estuary Program (MBNEP).** The 2013-2018 Comprehensive Conservation Management Plan's (CCMP) Ecosystem Restoration and Protection (ERP) strategy identified freshwater wetlands; streams, rivers, and riparian buffers; and intertidal marshes and flats as the three most stressed regional habitats. The MBNEP identified several non-native, invasive plant and animal species that negatively impact the Three Mile Creek (TMC) watershed. Volkert is conducting field assessments, developing GIS maps, assisting in the development of the MBNEP report, and assisting in the development of the WMP.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
08/19 - 12/20	**Environmental Scientist for the US 80 Bridge Replacement between the City of Newton and the Town of Chunky, MS for MDOT.** As part of the previous Wetland and Other Waters Assessment contract, this assessment identified and described potentially jurisdictional areas such as wetlands, other waters and other waters of the U.S. within the project corridor. Impacts from preliminary plans were assessed for the purposes of regulation under Section 404 of the Clean Water Act (CWA) and/or Section 10 of the Rivers and Harbors Act of 1899 (RHA). The project is located along US 80 in Newton County, between Newton, Mississippi and Chunky, Mississippi. The proposed work will result in 9.25 acres of permanent wetland fill, 2.83 acres of temporary wetland fill, 0.08 acre of permanent pond fill, and 3,506 linear feet of permanent roadside ditch fill.
03/07 - 02/09	**Environmental Scientist for a wetland delineation on a 200-acre Site in Harrison County, Mississippi for Wolf Run, LLC.** Wetland biologists performed a wetland delineation, in accordance with the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual, using a submeter GPS unit to locate wetland boundaries. The GPS points were collected in state plane coordinates and placed on a boundary map of the property. Wetland boundaries were also flagged in the field. U.S. Army Corps of Engineers Wetland Data Forms were completed for the site. The map showing the wetland boundaries was submitted to the U.S. Army Corps of Engineers, along with a request that the agency verify the wetland jurisdictional determination. Volkert was responsible for performing the wetland delineation and coordination with the U.S. Army Corps of Engineers.

	Firm employed by: Volkert, Inc.			
	**Evan Reid, CPESC** | *Hazardous Materials/Phase I ESA* MPR 12		Years of relevant experience with this employer	22
			Years of relevant experience with other employer(s)	22
	Degree(s) / Years / Specialization	BS | 2015 | Environmental Science/Crops and Soils and Water	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Reid will provide hazardous materials/Phase I ESA services. Mr. Reid fulfills Minimum Personnel Requirement #12.

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).

Mr. Reid joined Volkert in 2019 and has multidisciplinary experience in the environmental sciences including federal and state agency concurrences, wetland delineation/permitting, mitigation/monitoring, stream restoration, Phase I and II Environmental Assessments (ESAs), solid waste/illegal dump remediation, NPDES permitting/inspecting, Phase I and II MS4, watershed management planning, chemical and biological sampling and analysis. Mr. Reid's certifications include:

- Certified Professional in Erosion & Sediment Control (CPESC) #9166

04/23 - 04/24	**Environmental Project Manager for NEPA Documentation for a HUD Project Related to New Downtown Library for the City of Foley.** Volkert is currently preparing the NEPA documentation (EA/FONSI) and permits for the proposed new library in downtown Foley, Alabama. The new library will include a two-story building located on an approximate 3.97-acre lot. The NEPA document is being prepared using HUD Environmental Review Online System (HEROS) in accordance with the HUD Environmental Regulations. As part of the NEPA process, Volkert's environmental staff are preparing the technical studies and construction permits including ecological surveys, air and noise evaluations, a floodplain impact assessment, public involvement, and are managing the cultural resources surveys for the project. A Phase I ESA for the site is also being reviewed and will be summarized in the NEPA documentation.
10/22 - 10/23	**Environmental Scientist for NEPA Documentation for a HUD Project Related to Pier D2 Extension in Mobile, Alabama for the Port of Mobile.** Volkert is currently preparing the NEPA documentation and permits for the proposed extension of Pier D2 along the Mobile River. This project is located within the Main Docks complex of the Alabama State Port Authority. The NEPA document is being prepared using HUD Environmental Review Online System (HEROS). As part of the NEPA process, Volkert's environmental staff have prepared the technical studies including a **Phase I Environmental Site Assessment**, ecological surveys, a Biological Assessment, air and noise evaluations, floodplain impact assessment, and have managed the cultural resources surveys for the project.
10/22 - 10/23	**Environmental Scientist for NEPA Documentation for a HUD Project Related to the Reconstruction of Pier B South in Mobile, AL for the Port of Mobile.** Volkert is currently preparing the NEPA documentation (EA/FONSI) and permits for the proposed reconstruction of Pier B South along the Mobile River. The NEPA document is being prepared using HUD Environmental Review Online System (HEROS). The project includes the demolition of the existing Pier B South dock and the installation of a new dock structure. As part of the NEPA process, Volkert's environmental staff have prepared the technical studies including a **Phase I Environmental Site Assessment**, ecological surveys, a Biological Assessment, air and noise evaluations, floodplain impact assessment, and have managed the cultural resources surveys for the project.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
9/20 – 11/20	**MOVEBR Sherwood-Forest Extension (246 AC): City of Baton Rouge - Baton Rouge, LA.** PHASE I Environmental Site Assessments (ESA).
10/19 – 10/20	**Oyster Bay Northern Acquisition (465 AC): Weeks Bay Foundation - Bon Secour, AL.** PHASE I Environmental Site Assessments (ESA).
01/20 – 01/19	**Blackwell Property (7.3 AC): City of Gulf Shores - Gulf Shores, AL.** PHASE I Environmental Site Assessments (ESA).
01/20 - 11/19	**Blackwater Land Holdings: Blackwater Land Holdings LLC. - Lillian, AL.** Phase II Environmental Site Assessments (ESA).
01/20 - 01/21	**Oak Road West – Gulf Shores, AL.** Phase II Environmental Site Assessments (ESA).
01/23 - 01/24	**Hamburg Phase II, City of Foley - Foley AL.** Phase II Environmental Site Assessments (ESA).

	Firm employed by: Volkert, Inc.			
	**Kofi-Nsiah Mustapha Ghanmbaane, PhD, RPA** | *Cultural Resources*		Years of relevant experience with this employer	>1
			Years of relevant experience with other employer(s)	13
	Degree(s) / Years / Specialization	PhD | Anthropology MS | Archeology BS | Archeology	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Dr. Ghanmbaane will provide cultural resources 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 time years of experience specified in the applicable MPR(s).

Dr. Kofi-Nsiah Mustapha Ghanmbaane is an archaeologist with over 13 years of diverse experience spanning academia, cultural resource management, and regulatory compliance. With a strong foundation in archaeological science and fieldwork, Dr. Ghanmbaane has taught at the university level and led numerous archaeological surveys and CRM projects. His extensive background includes consulting for mining permits in Ghana and managing archaeological investigations aligned with Section 106 compliance, including Phases I, II, and III archaeological surveys. As a subject matter expert (SME), he has coordinated and supervised survey teams, ensured Section 106 compliance for archaeology, and reviewed numerous archaeological reports for SHPO concurrence. Dr. Ghanmbaane has worked with the Georgia Department of Transportation (GDOT), where he managed archaeological surveys/fieldwork and reviewed archaeological reports as a support services archaeologist in the Office of Environmental Services. Additionally, his tenure at the Historic Preservation Division at the Department of Community Affairs, which serves as the Georgia State Historic Preservation Office (GA-SHPO), has given him a deep understanding of NHPA regulations and Section 106 compliance frameworks. His training includes:
Society for American Archaeology Training, November 2024: Ground-Penetration Radar Applications to Archaeology
National Preservation Institute (NPI) Training, Atlanta, May 2024: Section 106: An Introduction
Advisory Council on Historic Preservation (ACHP) Certifications, October 2022

- What is Section 106
- Successfully Navigating Section 106 Review
- Section 106 Training for Indian Tribes
- Basics of NEPA and Section 106 Integration
- Coordinating NEPA and Section 106
- Section 304 and Confidentiality
- Early Coordination with Indian Tribes for Infrastructure Projects
- What Now? Protecting Historic Properties in Disaster Response
- Forest Service Introduction to Section 106 of the National Historic Preservation Act

Professional Affiliations

- Register of Professional Archaeologists
- Society of Black Archaeologists
- Southeastern Archaeology Conference

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).].
Prior to joining Volkert	**PI# 0013882| Roundabout Configuration at the intersection of SR 197 and SR 385/SR 17| Habersham County, GA| Georgia DOT.** Dr. Ghanmbaane was the GDOT Office of Environmental Services Archaeologist, coordinating Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised the addendum archaeological survey and reviewed the Archaeological Short Report (ASR) prepared by the consultant archaeologist.
Prior to joining Volkert	**PI# 0015560| Replacement of GDOT Bridge 217-0012-0 on SR 81 Over the Yellow River in Porterdale| Newton County, GA	Georgia DOT.** Dr. Ghanmbaane was the GDOT Office of Environmental Services Archaeologist, coordinating the Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised archaeological resource identification and reviewed the Archaeological Short Report (ASR) prepared by a consultant archaeologist. He ensured compliance and coordinated reevaluation memoranda to maintain archaeological compliance.
Prior to joining Volkert	**PI# 0016509| Bridge Replacement at SR 108/Fincher Road Over Shoal Creek| Cherokee County, GA| Georgia DOT.** Dr. Ghanmbaane was the GDOT Office of Environmental Services Archaeologist, coordinating Section 106 processes with agencies, including FHWA and Tribal Nations. He supervised archaeological resource identification and reviewed the Phase 1 report prepared by a consultant archaeologist. He coordinated obtaining concurrence for the Phase I report from the Georgia SHPO and ensured compliance. He also coordinated reevaluation memoranda to maintain archaeological compliance.
Prior to joining Volkert	**PI# 0016514| Bridge Replacement at SR 89/US 441 over Little Suwannee Creek, 8m South of Fargo| Echols County, GA| Georgia DOT**. Dr. Ghanmbaane served as the GDOT Office of Environmental Services Archaeologist, coordinating Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised archaeological resource identification and reviewed the Archaeological Short Report (ASR) prepared by a consultant archaeologist. He ensured compliance and coordinated reevaluation memoranda to maintain archaeological compliance.
Prior to joining Volkert	**PI# 0013161| Widening of State Route (SR) 31/US 441 from County Road (CR) 417/Thomas Road to North of CR 357/Currin Road/ SR 31/US 441 From Thomas Road to North of Currin Road| Coffee County, GA| Georgia DOT.** Dr. Ghanmbaane served as the GDOT Office of Environmental Services Archaeologist, coordinating Section 106 processes with agencies, including USACE, FHWA, and Tribal Nations. He supervised archeological resource identification, reviewed the Phase 1 report prepared by a consultant archaeologist, and obtained concurrence for the Phase I report from Georgia SHPO.
Prior to joining Volkert	**PI# 0013260| Pedestrian Upgrades at Twelve Intersections Along SR 24 and 29| Baldwin and Wilkinson Counties, GA| Georgia DOT.** Dr. Ghanmbaane served as the GDOT Office of Environmental Services Archaeologist, coordinating the Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised archaeological resource identification and reviewed the Archaeological Short Report (ASR) prepared by a consultant archaeologist.
Prior to joining Volkert	**PI# 0013591| Roadway Widening Along SR 3/US 41 from SR 151/Alabama Highway to SR 146/Cloud Springs Road| Catoosa County, GA| Georgia DOT.** Dr. Ghanmbaane served as the GDOT Office of Environmental Services Archaeologist, coordinating the Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised archaeological resource identification and reviewed the Archaeological Short Report (ASR) prepared by a consultant archaeologist. He ensured compliance and coordinated reevaluation memoranda to maintain archaeological compliance.
Prior to joining Volkert	**PI# 0015690| Roundabout Improvement at the Intersection of SR 22/US 80 at SR 22 Spur| Muscogee County, GA| Georgia DOT.** Dr. Ghanmbaane served as the GDOT Office of Environmental Services Archaeologist, coordinating the Section 106 processes with agencies, including Tribal Nations and FHWA. He supervised archaeological resource identification and reviewed the Archaeological Short Report (ASR) prepared by a consultant archaeologist. He ensured compliance and coordinated reevaluation memoranda to maintain archaeological compliance.

	Firm employed by: Volkert, Inc.			
	**Amber Ray, HMP** | *Cultural Resources*		Years of relevant experience with this employer	4
			Years of relevant experience with other employer(s)	6
	Degree(s) / Years / Specialization	MS | 2017| Heritage Preservation BS |1987 | Journalism/Mass Communications	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Ray will provide cultural resources 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 time years of experience specified in the applicable MPR(s).
	Ms. Ray is a Senior Historian with over 10 years of experience in historic preservation and environmental compliance. Her experience encompasses cultural resource survey, resource identification, evaluation, historic research, analysis, and documentation at the federal, state, and local levels. Ms. Ray has served as an Environmental Protection Specialist/Historic Preservation Specialist and has conducted 37 cultural resource surveys in Georgia, Ohio, and Minnesota for a variety of projects, including individual residences, historic districts, courthouses, public libraries, covered bridges, stone walls, WPA pipes and culverts, historic state and local parks and the structures within, campgrounds, cemeteries, municipal buildings, individual residences for acquisition and demolition, and a variety of project consultations. The surveys have included evaluating historic resources, assessing eligibility for listing in the National Register of Historic Places (NRHP), mitigating adverse effects from project impacts to historic properties, and consulting with State Historic Preservation Offices. Ms. Ray is well-versed in performing cultural resource surveys as well as evaluating and documenting historic properties.
10/22-Ongoing	**Effingham County, Historic Resource Survey, Effingham County, GA.** Ms. Ray currently serves as Senior Project Historian for this ongoing project. The comprehensive historic resources survey serves as mitigation for HP-130311-001 Filly Tower cell phone tower for Verizon Wireless. The comprehensive historic resources survey of 203 historic parcels includes buildings, structures, sites, and objects constructed before 1977, all located within Effingham County, Georgia. This project is a cellular tower licensed by the Federal Communications Commission which requires compliance with Section 106 of the NRHP. The project has been determined to have an adverse effect on Resource 99, a circa 1860 Georgian Cottage with Greek Revival elements and associated outbuildings and fields, which is eligible for listing in the NRHP. This mitigation, including the survey boundaries, has been agreed to by all parties. All survey data has been entered into GNAHRGIS, recommendations have been provided for future preservation activities, and a complete survey report will be presented to Verizon Wireless and the Historic Preservation Division of the Georgia Department of Natural Resources.
06/22-Ongoing	**Georgia DOT, Multiple Historic Resource Surveys, Historic Property Research, Assessments, and Section 106 Evaluations, Statewide, GA**. Ms. Ray is serving as Consultant Historian for multiple ongoing road and bridge projects for the Georgia DOT. Her responsibilites include conducting historic resource surveys, historic property research, assessments, and Section 106 evaluations. She also has submitted notification letters, provided historic resource survey reports, and prepared early coordination letters.
05/21-10/22	**City of Byromville, Phase I Historic Resource Survey, Dooly County, GA.** Ms. Ray served as Senior Project Historian for this project. The comprehensive historic resources survey served as mitigation for HP-171113-001 Lilly Tower. Ms. Ray conducted the survey which included 296 historic parcels including buildings, structures, sites, and objects constructed before 1980. This project was a cellular tower licensed by the Federal Communications Commission which required compliance with Section 106 of the NRHP. The project was determined to have an adverse effect on Resource DO-341, a nineteenth century "Double Pen" type house, which was eligible for listing in the NRHP, along with the Lilly Historic District (NRIS ID 97001558 Listed: 1998, GNAHRGIS ID 261214). This mitigation was agreed to by all parties. Ms. Ray entered all survey data into GNAHRGIS, provided recommendations for future preservation activities, and submitted a survey report.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).].
12/21-09/22	**City of Hartwell, Historic Resource Survey, Hartwell, GA.** Ms. Ray served as Senior Project Historian for this project that was completed in September of 2022. The comprehensive historic resources survey of 380 historic parcels included buildings, structures, sites, and objects constructed before 1982 and all were located within the boundaries of the City's five historic districts. The survey included Benson Street-Forest Avenue Residential Historic District, Franklin Street-College Avenue Residential Historic District, Hartwell Commercial Historic District, and the Witham Cotton Mills Village Historic District, in addition to the locally-designated historic district. The survey was funded by the National Park Service and the U.S. Department of the Interior through the Historic Preservation Division of the Georgia Department of Natural Resources.
10/21-09/22	**City of Dahlonega, Historic Resource Survey, Dahlonega, GA.** Ms. Ray served as Senior Project Historian for this project completed in September of 2022. The comprehensive historic resources survey of 99 historic parcels included buildings, structures, sites, and objects constructed before 1981. The structures were all located within the boundaries of the City of Dahlonega Historic Preservation District, which included the Dahlonega Commercial Historic District and the Hawkins Street Historic District. The survey was funded by the National Park Service and the U.S. Department of the Interior through the Historic Preservation Division of the Georgia Department of Natural Resources. The survey identified and evaluated (or reevaluated where applicable) resources within the study area to determine eligibility for listing in the NRHP; helped to provide a clear statement of and justification for the boundaries of the surveyed area; and included a summary of previous preservation project local designations, Historic American Buildings Survey (HABS)/Historic American Engineering Record (HAER)/Historic American Landscape Surveys (HALS) listings, and other historic preservation planning efforts. All survey data was entered into Georgia's Natural, Archaeological, and Historic Resources GIS (GNAHRGIS) database, recommendations were provided for future preservation activities, and a complete survey report was presented to the City of Dahlonega to provide to the Historic Preservation Division of the Georgia Department of Natural Resources.
05/21-04/22	**City of Roswell, Historic Resource Survey, Roswell, GA.** Ms. Ray served as Senior Project Historian for this project that was completed in April of 2022. The comprehensive historic resources survey of 590 historic parcels included buildings, structures, sites, and objects constructed before 1980 and all were located within or adjacent to the locally designated Roswell Historic District. The survey was funded by the National Park Service and the U.S. Department of the Interior through the Historic Preservation Division of the Georgia Department of Natural Resources. The survey identified and evaluated (or reevaluated where applicable) resources within the study area to determine eligibility for listing in the NRHP; helped to provide a clear statement and justification of the boundaries of the surveyed area; and included a summary of previous preservation project local designations, HABS/HAER/HALS listings, and other historic preservation planning efforts. All survey data was entered into GNAHRGIS, recommendations were provided for future preservation activities, and a complete survey report was presented to the City of Roswell to provide to the Historic Preservation Division of the Georgia Department of Natural Resources.
01/22 - 01/23	**Reconstruction of the Chalmette Slip, Wharves A & F | St. Bernard Port Harbor & Terminal District St. Bernard Parish | Arabi, LA.** Mr. Parker served as Engineer of Record for Design which consisted of demolition and reconstruction of remaining original wharves at the Arabi Terminal. Reconstruction consisted of cast in place deck on precast concrete girders resting on precast concrete caps and supported by large diameter steel pipe pile bents supporting loads from 750 psf to 1000 psf or wheel loads from fully loaded forklift. Precast prestressed concrete box beams were used as edge beams and designed to take lateral loads from the berthing of ships. Bents were designed to absorb mooring loads and berthing loads. An upper and lower combination fender system was developed to handle both large vessels (upper) and barges (lower) so as to protect the superstructure and substructure from vessel impact. At grade portions of the wharves consisted of timber pile supported concrete slab designed to support 1000 psf or wheel loads from a fully loaded forklift, whichever controlled. Wharves were designed to comply with the following design codes and specifications: Various Port Facility Related Uniform Facilities Criteria (UFC), International Building Code (IBC), American Concrete Institute (ACI), and American Society of Civil Engineers (ASCE) Design of Marine Facilities Specification.

	**Firm employed by: Volkert, Inc.**			
	Ahmed Rageh, PhD, PE | *Structural / Bridge Design Engineer*		Years of relevant experience with this employer	2
			Years of relevant experience with other employer(s)	16
	Degree(s) / Years / Specialization	PhD | 2020 | Civil Engineering MS | 2018 | Civil Engineering, Structures MS | 2012 | Civil Engineering BS | 2006 | Civil Engineering	Year registered	2023
	Active registration number / state / expiration date	47953 | LA | 9/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Rageh will be providing structural engineering 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 time years of experience specified in the applicable MPR(s).
Dr. Rageh has 14 years of experience in structural engineering with special emphasis on design and behavior of steel structures and bridges. He participated in designing and detailing of steel and post-tensioned bridges as well as designing, detailing and construction supervising of steel sutures. He has in-depth knowledge of several national and international design codes including AASHTO, ACI, AISC, and PCI.	
06/23 - Ongoing	**IH 10 at US 69 Highway Bridge, TXDOT, Jefferson, TX.** Mr. Rageh serves as Structural Engineer. This project involves the US 69 Highway Bridge, which is composed of prestressed concrete spans as well as composite steel girder spans. The steel spans eight, nine, and ten are supported over integral steel straddle bents spanning 150 feet. Mr. Rageh's responsibilities include performing 3D finite element analyses of steel spans eight to 10 to evaluate straddle bents stresses; performing nonlinear-plastic analyses to ensure the redundancy of the straddle bents; designing/detailing main span steel girders connections with integral straddle bents; and performing QAQC reviews of the steel straddle bents design.
05/23 - 06/23	**Rehabilitation of I-10 Bridge over Mississippi River, DOTD, Baton Rouge, LA.** Mr. Rageh serves as Project Manager. This project involves the rehabilitation of the steel spans of the I-10 bridge, which are deteriorating and contain cracks localized over supports. The project involves reviewing as built plans; performing site visits and field verification inspection for deteriorated regions; performing 3D finite element to determine the cause of cracking; and providing repair recommendations. Mr. Rageh's responsibilities also included lead-ing the verification field inspection; leading/performing the 3D finite element analyses with shell elements; leading report preparation and proposing repair derails; and reviewing repair plans prepared by junior engineers.
09/22 - 05/23	**Load Rating of 114 Bridges, LADOTD.** Mr. Rageh serves as Structural Engineer. This project involves the load rating of 114 existing bridge structures by the Load and Resistance Factor Rating method (LRFR). Bridge types included prestressed concrete girder bridges, steel girder bridges, precast and CIP slab bridges, swing bridges. Three-dimensional finite element modeling is being used as necessary for complex bridges. Mr. Rageh's responsibilities include performing load rating for prestressed concrete box girder bridges; leading other team members in rating prestressed concrete and multi-steel beam segments; and developing methodology, performing analyses, and developing a Mathcad file to rate inverted T caps with the Strut-and-Tie model.
02/22 - 02/23	**Load Testing and Evaluation of 19 Bridges, LADOTD.** Mr. Rageh served as Structural Engineer. This project's scope of work was to evaluate 19 bridge structures that are posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing load rating analysis and load testing coupled with detailed 3-D Finite Element Analysis with the aim of removing current load posting. Mr. Rageh's responsibilities included perform QA/QC on analyses and the final report prepared by other team members.

	Firm employed by: Volkert, Inc.			
	**Artur D'Andrea, PE** | *Bridge Studies/Public Involvement*		Years of relevant experience with this employer	2
			Years of relevant experience with other employer(s)	45
	Degree(s) / Years / Specialization	BS | 1978 | Civil Engineering	Year registered	1983
	Active registration number / state / expiration date	20561 | LA | 9/30/2026	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. D'Andrea will provide bridge studies and public involvement 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 time years of experience specified in the applicable MPR(s).
Mr. Parker has over 23 years of structural engineering experience including in the design of prestressed concrete bridge design with spans up to 150 feet and in the design of geometrically challenging and complex bridges, such as curved, super-elevated, skewed piers, and movable spans. He also has experience with structural analysis, reinforced concrete design, prestressed concrete design, wood and timber design, advanced mechanics of materials, finite element analysis, shallow foundations, inland waterways, and engineering for natural hazards. Mr. Parker also has the following training: LRFD Training (Seismic Design/Movable, etc.), LEAP Bridge, STAAD, MDX, WinSEISAB, CONSEC, Response 2000, AASHTO GM-2.1, Virtis, Retain Pro, PCA Column, MATHCAD, Smath, Microstation, AutoCAD & AutoCAD 3D.	
11/23 - 11/27 (est.)	**IH 35, Capital Express North, TxDOT, Travis County, TX.** Volkert is providing services for this $607M reconstruction project, which will improve operational efficiency by relocating ramps and adding one managed lane in each direction on IH 35, capacity to the frontage roads, and a shared-use path. The interchange at Wells Branch Pkwy will be converted into a diverting diamond interchange (DDI), and the new shared-use path will improve bicycle and pedestrian accommodations along IH 35 frontage roads and at east/west crossings.
04/23 - 09/27 (est.)	**District 04 IIJA Off-System Bridge Program, LADOTD.** Volkert has been selected to assist the LADOTD in the selection of eligible bridge structures to be replaced, designed, and constructed under the Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program. Volkert is performing Hydraulic Analysis and Bridge Design services. Volkert will evaluate each site and provide a recommended drainage alternate type and applicable dimensions, as well as perform the hydraulic design of the drainage structure in accordance with the LADOTD Hydraulic Design Guidelines for the Off-System Bridge Replacement and Rehabilitation Program manual.
Prior to Joining Volkert	**Louisiana Department of Transportation Development, Louisiana Assistant Bridge Design Engineer.** In charge of three separate teams, Bridge Design, Bridge Rating and Permit Evaluation. Bridge Design Teams, County Bridge Replacement Program. Both project manager and designer-in-charge for the largest public works project in Louisiana, replacement of the I10 Twin Span Bridges. I10 project completed ahead of schedule and 100 million dollars below budget. Multiple type bridge rehabilitation projects. Including Mississippi River Bridge truss strengthening, lift span such as Danziger, emergency project replacements using conventional and specialized devices such as SPMT's. Design substructure repairs and retrofit. Including West Pearl River along I-59. Leader of 2008 hurricane damage assessment team. Covering 2400 miles and evaluating damage to many movable bridges in Louisiana. Project manager Mississippi River Bridge repairs, I-20. Including modification to main truss, piers, jacking operations, ground stability improvements, 24/7 GPS and SAA based movement detection and Tiger Grant manager. Project manager, Prien Lake Bridge Rehabilitation, I-210. Task manager for the addition of an exit at I-110 bridge, Terrace Ramp. Bridge representative for various Interstate projects using the innovative project procurement method. Managed the LADOTD rating group during the period of LRFR implementation. Including developing a plan for FHWA's Metrics compliance. Strengthening the rating unit to execute the plan, and to better screen Louisiana overload permits. AASHTO T-18 member. Defending the Owners point of view with MBE chapters rewrite. Implementation of LRFR, creation of the bridge element inspection manual, strategies for NBIS metrics compliance and the new bridge data collection system known as SNBI.

Firm employed by: Volkert, Inc.

Jacob Parker, PE | *Navigational Analysis*

MPR 20

Years of relevant experience with this employer	6		
Years of relevant experience with other employer(s)	17		
Degree(s) / Years / Specialization	BS | 1998 | Civil Engineering	Year registered	2003
Active registration number / state / expiration date	30596 | LA | 9/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Parker will provide navigational analysis services. Mr. Parker fulfills Minimum Personnel Requirement #20.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Mr. Parker has over 23 years of structural engineering experience including in the design of prestressed concrete bridge design with spans up to 150 feet and in the design of geometrically challenging and complex bridges, such as curved, super-elevated, skewed piers, and movable spans. He also has experience with structural analysis, reinforced concrete design, prestressed concrete design, wood and timber design, advanced mechanics of materials, finite element analysis, shallow foundations, inland waterways, and engineering for natural hazards. Mr. Parker also has the following training: LRFD Training (Seismic Design/Movable, etc.), LEAP Bridge, STAAD, MDX, WinSEISAB, CONSEC, Response 2000, AASHTO GM-2.1, Virtis, Retain Pro, PCA Column, MATHCAD, Smath, Microstation, AutoCAD & AutoCAD 3D.
11/23 - 11/27 (est.)	**IH 35, Capital Express North, TxDOT, Travis County, TX.** Volkert is providing services for this $607M reconstruction project, which will improve operational efficiency by relocating ramps and adding one managed lane in each direction on IH 35, capacity to the frontage roads, and a shared-use path. The interchange at Wells Branch Pkwy will be converted into a diverting diamond interchange (DDI), and the new shared-use path will improve bicycle and pedestrian accommodations along IH 35 frontage roads and at east/west crossings.
02/20 – 08/24 (est.)	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemines Parish (LADOTD).** Mr. Parker is assisting with Volkert's responsibilities which is to provide all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the DBT adheres to their contract, and address other assignments as directed.
09/18 - 07/20	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LADOTD).** Mr. Parker served as Review Engineer for the OVT on Task Order 4 which allowed Volkert to provide project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. He was responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consisted of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility including construction of a new six-lane I-10 overpass at Highland Road. | State Contract No. 4400004915 TO 4, S.P. No. H.009250.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).].
05/19 - 12/21	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (LADOTD).** Mr. Parker is responsible for assisting with the bridge design review for Volkert's team. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the overpass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6.
09/18 – 12/20	**Causeway Shoulder Bay Improvements, Jefferson Parish, LA (Greater New Orleans Expressway Commission).** Mr. Parker responsibilities included design of basic safety plan and elevation, design of girders, design of cable tray attachment and miscellaneous electrical details, design of sign support details and design of transition barriers. Volkert was selected to design essential and long-awaited shoulder additions. The bridge shoulders, comprising 12 "shoulder bays," provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emergency personnel in the event of a crash. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
06/18 – 02/21	**Almonaster Bridge Study, Orleans Parish, Port of New Orleans.** The Almonaster Bridge Study was developed to assist the Port of New Orleans selecting a replacement option for the Almonaster Bridge over the Inner Harbor Industrial Canal. It reviewed several replacement options as well as rehabilitation and compared costs for design, construction and permitting, different applications of design criteria, constructability, and possible funding sources. Other things considered were the elimination of railroad crossings in the area and proposed additional connection roadways to accommodate these eliminations. The study required the review of load rating/inspection reports as well as substructure preliminary design for each alternative by Volkert.
01/22 - 01/23	**Reconstruction of the Chalmette Slip, Wharves A & F | St. Bernard Port Harbor & Terminal District St. Bernard Parish | Arabi, LA.** Mr. Parker served as Engineer of Record for Design which consisted of demolition and reconstruction of remaining original wharves at the Arabi Terminal. Reconstruction consisted of cast in place deck on precast concrete girders resting on precast concrete caps and supported by large diameter steel pipe pile bents supporting loads from 750 psf to 1000 psf or wheel loads from fully loaded forklift. Precast prestressed concrete box beams were used as edge beams and designed to take lateral loads from the berthing of ships. Bents were designed to absorb mooring loads and berthing loads. An upper and lower combination fender system was developed to handle both large vessels (upper) and barges (lower) so as to protect the superstructure and substructure from vessel impact. At grade portions of the wharves consisted of timber pile supported concrete slab designed to support 1000 psf or wheel loads from a fully loaded forklift, whichever controlled. Wharves were designed to comply with the following design codes and specifications: Various Port Facility Related Uniform Facilities Criteria (UFC), International Building Code (IBC), American Concrete Institute (ACI), and American Society of Civil Engineers (ASCE) Design of Marine Facilities Specification.

Firm employed by: Volkert, Inc.

Gabriel Rice, EI | *Structural / Bridge Design Engineer Intern*		Years of relevant experience with this employer	1
		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	BS |2022 |Civil Engineering	Year registered	2022
Active registration number / state / expiration date	35152 | LA | 9/30/2026	Discipline	Civil EI

Contract role(s) / brief description of responsibilities:
Mr. Rice will be serving as Structural / Bridge Design Engineer Intern.

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).
Mr. Rice brings over two years of hands-on experience in water resources and bridge design and provides support on bridge inspection, bridge design, and program management.	
09/22 - 09/27 (est.)	**District 04 IIJA Off-System Bridge Program, DOTD.** Volkert has been selected to assist the DOTD in the selection of eligible bridge structures to be replaced, designed, and constructed under the Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program. Volkert is performing Hydraulic Analysis and Bridge Design services. Volkert will evaluate each site and provide a recommended drainage alternate type and applicable dimensions, as well as perform the hydraulic design of the drainage structure in accordance with the DOTD Hydraulic Design Guidelines for the Off-System Bridge Replacement and Rehabilitation Program manual.
07/23 - Ongoing	**I-565 Bridge Widening (Mobile, AL)** As a Structural Engineer Intern, Mr. Rice played a crucial role in the I-565 Bridge Widening project. My responsibilities included making final adjustments to bridge plans using Microstation and estimating quantities for various bridge components like concrete and steel. This project represents a significant enhancement in Mobile's infrastructure, ensuring both safety and efficiency in bridge design.
07/23 - 12/2024	**Reconstruction of Wharf A and Wharf F, Port of Chalmette (Chalmette, LA)** Mr. Rice assisted ind correcting design plans using AutoCAD and analyzing pile data to ensure design strength compliance.
08/23 - Ongoing	**Plank Road Relocation (Baton Rouge, LA)** Mr. Rice's responsibility was making plan corrections using AutoCAD. This role demanded precision and expertise in design software, contributing to the project's success within a limited timeframe.

	Firm employed by: Volkert, Inc.			
	**Chase Morgan, EI** | *Bridge Studies*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS | 2024 | Civil Engineering AA | 2021 | Mathematics	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Morgan will provide bridge studies 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 time years of experience specified in the applicable MPR(s).
Chase serves as an Engineering Intern in the Structural team at Volkert, Inc.	
11/22 - Ongoing	**I-10 Mobile River Bridge and Bayway Progressive Design Build Project in Mobile, AL for ALDOT:** Mr. Morgan serves as an Engineeer Intern for the Canal and Claiborne street interchange portion of this project, which consists of four FIB superstructure bridges. Each bridge is curved and superelevated, and there are trapezoidal spans in locations where the on and off ramps merge with the mainline structures. Both flared and non-flared girder design with OpenBridge Designer (LEAP Concrete) has been required throughout this project. Florida I-Beam girders sizes included FIB-36, FIB-45, FIB-54, FIB-63, and FIB-72.
11/23 - Ongoing	**IH-35 Mobility CapEx-Central University Section in Austin, Tx for TXDOT:** Mr. Morgan serves as an Engineer Intern for the Dean Keeton Underpass cross street and interchange bridge which consist of a complex structure consisting of 1 span running east to west with 4 spans running north to south. The bridge will serve as an intersection for E Dean Keeton St. and North/South bound Frontage Roads. This bridge has complex traffic movements on the deck that require finite element analysis to understand the affects of the load paths on the bridge deck. The spans consist of TX-54's and TX-72's that are supported on a three-girder steel straddle bent system that is supported by 3 drilled shaft retaining walls. The TXDOT standard software PG-Super is used for design of the prestressed concrete superstructure. Steel substructure designed using CSI Bridge and Midas Civil, while concrete substructure designed using RC Pier.
04/25 - Ongoing	**OSARC Load Ratings, MS:** Mr. Morgan served as an Engineer Intern responsible for load rating superstructure and substructure using both BrR and STAAD Pro.
01/23 - 04/25	**SR 27 over Tallahala Creek Phase A Roadway Design, MS, MDOT:** Mr. Morgan served as an Engineer Intern for the SR 27 bridge replacement over Tallahala Creek. He was responsible for the development of Pre-ROW plans for the roadway design on the project.

Firm employed by: Volkert, Inc.

Ashley Beckendorf, PE | *Roadway & Drainage Studies/Public Involvement*

MPR 22

Years of relevant experience with this employer	8		
Years of relevant experience with other employer(s)	6		
Degree(s) / Years / Specialization	BS | 2008 | Civil Engineering	Year registered	2012
Active registration number / state / expiration date	37334 | LA | 3/31/2027	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Ms. Beckendorf will provide roadway and drainage design and public involvement services. Ms. Beckendorf fulfills Minimum Personnel Requirement #22.

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).

Ms. Beckendorf has 14 years of design and engineering experience and expertise in delivering complex drainage, roadway, open space, and other capital projects for government clients. Over her career she has specialized in roadway engineering, sewer infrastructure design and drainage design. For the past six plus years, she has managed and assisted with managing several projects of complex nature and succeeded in keeping on schedule and maintaining great project outcomes. Before her management experience she worked on the East Baton Rouge Green-light Program and East Baton Rouge Parish Sanitary Sewer Overflow Program, beginning from the preliminary stages to design, on through construction. With her experience working with EBR through these projects, combined with her knowledge of engineering and managerial experience give her the ability to make a very effective manager. She has managed every aspect of projects including geotechnical engineering, surveying & mapping, environmental studies and permitting, subsurface utility engineering, utility coordination, lighting, traffic studies and design, Right of Way Acquisition, drainage, and roadway design. Ms. Beckendorf's certifications include:

- FHWA-NHI-142005 NEPA and the Transportation Decision-making Process
- Traffic Engineering Analysis
- Process & Report - Module 2
- Process & Report - Module 3

05/18 - Ongoing	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport).** As project manager, Ms. Beckendorf coordinates between sub-consultants, between the airport, the FAA, and DOTD. She is responsible for the design of Plank Road (the new alignment), QA/QC of all components and supervision of all PE's, EI's, and technicians working on the project's design. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection. This project is an Airport project, funded by FAA, but the road will be transferred to DOTD.
05/19 - 12/21	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (DOTD).** Ms. Beckendorf is providing roadway design submittal review for Volkert's team. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the over- pass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
05/18 - 05/19	**LA 929 at LA 930 Roundabout, Ascension Parish, LA (Ascension Parish Government).** As project manager and lead engineer, Ms. Beckendorf coordinated all sub-consultants and supervised all work done on the project. This a new roundabout at LA 929 and LA 930. It consists of a one lane roundabout with a combination of ditch drainage and subsurface drainage.
10/15 - 09/16	**I-10: Highland Road to LA 73 Supplemental Agreement No. 2, East Baton Rouge and Ascension Parishes, LA (DOTD).** Volkert was contracted to perform and prepare an Interstate Modification Report (IMR) to analyze the existing roadway networks and identify the best alternatives to improve capacity the interchange at I-10 and LA 42. As one of the Project Engineers, Ms. Beckendorf assisted in managing the project tasks. She performed 15-minute queue length analyses. She performed a crash study, including a crash analysis of all the intersections, segments, and spots using DOTD manual for Crash Data Analysis and crash1b software, pulling crash reports, analyzing the over representation, and drawing crash diagrams. Lastly, she has assisted in the time travel study. | State Contract No. 4400004915 SA 2, S.P. No. H.009250
01/15 - 04/15	**Clarence Henry Truckway Right Turn Lane Addition | New Orleans, LA | Port of New Orleans.** As Project Manager and Project Engineer, Ms. Beckendorf provided roadway engineering for a right turn lane addition of approximately 1 mile in length. The scope of her work included plans, specifications and quantities with plan elements such as typical sections, plan sheets, striping and signing, sequence of construction and traffic control. Volkert is responsible for the preliminary submittal through the 100% final design plan submittal.
04/14 - 12/15	**Magnolia Converted Pedestrian Bridge Rehabilitation | New Orleans, LA | City of New Orleans.** Ms. Beckendorf designed ADA compliant sidewalks and ramps. Volkert is responsible for providing design, engineering and construction management services to the City for the rehabilitation of a late 19th century bridge over Bayou St. John.
04/14 - 12/14	**St. Landry Road – Edenborne Connector, Ascension Parish, LA (Ascension Parish Government).**As Project Engineer, Ms. Beckendorf provided roadway design engineering including plan profiles, specifications, geometrics, typical cross sections, and striping and signing plans. For the sewer work, she designed gravity and force main lines and assisted with the design of the pump station and site layouts. The project consists of providing provide an environmental impact study, right away analysis, full roadway and utility design, and bid services for a divided facility that will connect St Landry Ave. and Edenborne Connector. Volkert is responsible for the initial preliminary information submittal through the 100% final design plan submittal.

Firm employed by: Volkert, Inc.

Walton Mitts, PE | *Roadway & Drainage Studies/Public Involvement*

MPR 23

Years of relevant experience with this employer	5		
Years of relevant experience with other employer(s)	11		
Degree(s) / Years / Specialization	BS | 2013 | Civil Engineering	Year registered	2018
Active registration number / state / expiration date	29188/ MS / 12/31/2026	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Mitts will provide roadway and drainage design services. Mr. Mitts fulfills Minimum Personnel Requirement #23.

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).

Mr. Mitts joined Volkert in 2020 and has 16 years of Roadway Design expertise. Prior to joining Volkert, Walton was employed with the Mississippi Department of Transportation and DBS Engineering Firm. Walton worked with MDOT for 4 years and served as a Design Team Leader and Professional Engineer in the Roadway Design Division before moving to DBS where he served as a Project Manager. Ms. Mitts' registrations and certifications include:
Registered Professional Engineer: AR #19712; MS #29188; TN #122099; UT #12248997
- Certified Erosion Control Person #17170
- FHWA/NHI-135094: Culvert Hydraulic Analysis and Design Program (HY-8)
- FHWA/NHI-135091: Basic Hydraulic Principles Review
- FHWA/NHI-135056: Culvert Design
- FHWA Roadside Safety Systems Designer Training
- Roundabout Design Workshop
- TNEPSC Level I #142519
- TNEPSC Level II #142519-D2

11/22 - 01/25	**Shriners Blvd at I-10 Roundabout Phase A and Phase B, Harrison County, MS.** Mr. Mitts was the Lead Roadway Engineer and Project Manager for Phase A and Phase B services. Phase A resulted in Final ROW plans while Phase B is ongoing. Mr. Mitts was tasked with providing Roadway Plans for the design of safety improvements at the interchange of I-10 and Shriners Blvd. Plans included the design of a double roundabout which would require added deflection to entry ramps, permanent concrete islands to direct and slow traffic, and drainage and lighting improvements for increased safety. Mr. Mitts was able to provide a full double roundabout 3D model (utilizing Open Roads Designer) within existing ROW in addition to the conceptual design of : Drainage, traffic control, lighting layout, and fastest path analysis by the end of the completed Phase A contract. Phase B work is currently being performed.
03/21 - 01/25	**Slide Repairs along I-20 and I-220, Hinds County, MS.** Mr. Mitts was the Lead Roadway Engineer and Project Manager for Phase A and Phase B services resulting in Final Construction plans consisting of geotechnical remedial actions and traffic control for slide repairs at 3 locations in Hinds County : Interstate 220 South exit ramp to U.S. 80; West Bound Interstate 20 near Big Black River; and East Bound Interstate 20 near Big Black River. Mr. Mitts coordinated with a Geotech sub and was able to provide final construction plans for the 3 slide sites.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
02/20 - 06/23	**SR 145 Slide Replacement, Phase A and Phase B, Lauderdale County.** Mr. Mitts was the Lead Roadway Engineer and Project Manager for Phase A and Phase B services that resulted in Final Construction Plans. This job included coordination with a geotechnical sub to provide Geotechnical Remediation Plans. Roadway plans including Traffic Control plans were also included in this plan set. This project utilized 3D modeling in Microstation SelectSeries 10.
05/20 - 03/21	**US 49 at SR 35 Intersection Improvements, Phase A and Phase B, Covington County, MS.** Mr. Mitts was the Lead Roadway Engineer and Project Manager for Phase A and Phase B services resulting in Final Construction plans. This job included providing and selecting from 3 alternatives to facilitate movement of WB-67 design vehicles along West Frontage Road between Pearce Road and SR 35 – ultimately resulting in a realignment of West Frontage Road. Additionally, this job included removal of two crossovers along US49 and signalization of the US 49/SR 35 Intersection, as well as other intersection improvements at West Frontage Road intersections with SR 35 and Pearce Road. All aspects of Phase A and Phase B Roadway plans were provided as well as Traffic Signal Optimization coordinated with MDOT Traffic along with signal timing and radar, etc. The Final plans also included detailed traffic control phasing, permanent signing, pavement marking, and other standard Roadway items. This project included unique coordination with MDOT due to a late pavement design change, Mr. Mitts and MDOT worked closely and on a condensed schedule to ensure the revised pavement design was incorporated into the Final Plans and the project kept on schedule.
04/20- 10/20	**I-55 South of Gluckstadt Road Slide Repair, Phase A and Phase B, Hinds County.** Mr. Mitts was the Lead Roadway Engineer and Project Manager for Phase A and Phase B services that resulted in Final Construction Plans. This job included coordination with a geotechnical sub to provide Geotechnical Remediation plans. Roadway plans including Construction Signing were also included in this plan set.

	Firm employed by: Volkert, Inc.			
	**Ryan Ordeneaux, PE** | *Roadway & Drainage Studies*		Years of relevant experience with this employer	6
			Years of relevant experience with other employer(s)	16
	Degree(s) / Years / Specialization	BS | 2003 | Civil Engineering	Year registered	2015
	Active registration number / state / expiration date	39476/ LA / 09/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Ordeneaux will provide roadway and drainage studies 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 time years of experience specified in the applicable MPR(s).
Mr. Ordeneaux has engineered a variety of projects over his 20-year career including roadway design, bridge replacements, and aviation design. This includes interstates, highway, and local roadway design; traffic control plan development; hydraulic improvements; and drainage improvement projects throughout Louisiana. He has served as a project estimator and also has project management and inspection experience.	
09/21 - 09/22	**Montz Drainage Improvements Project and the Evangeline Road at CN Railroad Box Culvert Projects, St. Charles Parish, LA.** Mr. Ordeneaux served as Project Manager for this is project to improve the drainage in Montz, LA per the Montz Drainage Improvement plan. The Montz Drainage Improvements Project includes the design for jack and bore steel pipes under KCS railroad and the design of a canal or alternative way to convey stormwater to the nearby pumpstation. The Evangeline Road/CN Railroad Project includes the design for box culverts under Evangeline Road at the CN Railroad crossing located within the railroad ROW. Mr. Ordeneaux coordinated with the Master Drainage Plan designer, surveying, and geotechnical engineering for the projects and is overseeing the design, permitting, and construction administration for the proposed drainage improvements as per the drainage plan.
05/18 - Ongoing	**Plank Road, East Baton Rouge Parish, LA, Baton Rouge Metropolitan Airport.** Project Engineer - This project required coordination between subconsultants, Baton Rouge Metropolitan Airport, the FAA, and DOTD. The responsibilities included the design of Plank Road (the new alignment), design of new drainage system and new sub surface utility design. This project is to relocate Plank Road along a new alignment. Mr. Ordeneaux was involved with the design of a new 4 lane highway with J-turns, including ROW acquisition, new subsurface utilities and drainage design. The Project also includes design for additional lanes along Harding and Hooper Road and the required upgrades to the drainage system and utility relocations. This project is a Baton Rouge Metropolitan Airport project, funded by FAA, but the road will be transferred to DOTD.
01/20 - 01/21	**Roundabout at Highway 929 and Highway 930 in Prairieville, LA for Ascension Parish.** Mr. Ordeneaux served as Lead engineer for this project. Volkert was assigned a task order for the Move Ascension program to develop plans for a Roundabout Highway 929 and Highway 930, Prairieville, LA. The project required a traffic analysis, development of construction plans, drainage improvements, lighting, topographic survey, ROW mapping, geotechnical services and SUE services.
06/18 - 06/19	**I-10 (Williams Boulevard to Veterans Memorial Boulevard), and Loyola Drive to Williams Boulevard in Jefferson Parish, Louisiana for the Louisiana Department of Transportation and Development (DOTD), c/o GEC, Inc.** Mr. Ordeneaux served as Project Engineer for this project. This project involved the design of a new subsurface drainage system. It has approximately six major crossings that outfall into Canal No. 3, which parallels the interstate in this area. These drainage systems not only serve as the roadway drainage, but they also drain large segments of residential areas of Jefferson Parish that are located to the north of I-10. This approach required careful coordination with Jefferson Parish and the DOTD to ensure that all water elevations and drainage assumptions used were accurate and that the completed design met all required design criteria.

Firm employed by: Volkert, Inc.			
	**Allen Carlisle, PE, CFM** | *Roadway & Drainage Studies*	Years of relevant experience with this employer	3
		Years of relevant experience with other employer(s)	12
	Degree(s) / Years / Specialization: BS | 2009 | Civil Engineering	Year registered	2014
	Active registration number / state / expiration date: 25142/ MS / 12/31/2026	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Carlisle will provide roadway and drainage studies 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 time years of experience specified in the applicable MPR(s).

Mr. Carlisle joined Volkert in 2022. He is experienced in open channel hydraulics, watershed analyses, FEMA SFHA concerns, and bridge hydraulic design. Proficient in one-dimensional and two-dimensional modeling, hydrology, and bridge scour estimation. Familiar with general site development drainage including storm sewer and detention / retention design. Have performed project engineer duties including scheduling, staff resource allocation, and project cost estimation. Mr. Carlisle's certifications include:

- Professional Engineer: MS PE #25142
- Professional Engineer: TN PE #127039
- Professional Engineer: AR PE #21204
- Professional Engineer: NC PE #054862
- Professional Engineer: FEMA Certified Floodplain Manager (CFM), # US-15-08394

01/23 - Ongoing	**Pearl River Valley Water Supply District Boat Ramp Improvements.** Project Manager for Volkert performing boat ramp improvements at the Rankin Landing for Pearl River Valley Water Supply District (PRVWSD) in Brandon, MS. The effort includes obtaining site survey, data geotechnical recommendations, and a wave/wake analysis for the site. The obtained data will be used to develop a site plan for the removal of the existing boat ramps and construction of the new boat ramps. A parking lot expansion with adequate lighting is also included within the plan set. Volkert will perform Construction Engineering and Inspection for the client during the final phase of the project.
12/23 - 12/24	**Puckett Creek LOMR.** Project Manager and Hydraulic Engineer for Volkert performing hydraulic modeling, floodway analysis, and mapping for a 5-mile reach of Puckett Creek in Murfreesboro, Tennessee. The effort included hydrologic computations to verify the effective FEMA hydrology. A HEC-RAS model was developed for Existing Conditions utilizing current field topographic data merged with LiDAR. After the modeling and corresponding inundation and floodway mapping was completed, a hydraulic report was completed to document the floodplain changes from Effective Conditions. A Letter of Map Revision (LOMR) will be submitted to FEMA for approval.
12/22 - 09/23	**SR 145 Bridge Replacement over Town Creek Tributary.** Mr. Carlisle served as the Project Manager and Hydraulic Engineer for the Phase A Bridge Replacement Recommendations for SR 145 over the Town Creek Tributary. Volkert provided the Mississippi Department of Transportation with conceptual, preliminary, and final Phase A Hydraulic Bridge Design Recommendations. The submittal included hydraulic models, bridge layout drawings, scour calculations, stream stability analyses and countermeasure designs, guide bank designs, and bridge deck drainage plans. The preferred bridge alternative and its hydraulic impacts on the floodplain, along with all supporting computations, were documented in a hydraulic report, and a bridge recommendation was presented.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
07/22 - 01/23	**Crooked Creek Street, for ArDOT.** Hydraulic Engineer for Volkert performed hydraulic design for bridge replacement in Lonoke County, Arkansas. The design included hydrology computations, a one-dimensional HEC-RAS hydraulic model, and scour / countermeasure design for the proposed bridge replacement. Coordination with the client and other team members was vital to develop the best bridge replacement alternative for the subject site.
07/22 - 01/23	**River Rock Beasie Road Connection, for Murfreesboro, TN.** Hydraulic Engineer for Volkert performed hydraulic modeling and analysis for a proposed connector road in Murfreesboro, Tennessee. The effort utilized the effective FEMA hydrology and model to develop an Existing Conditions hydraulic model updated with current topographic data. The proposed bridge was then included within the model, along with other improvements to mitigate the impact of the proposed crossing. After the modeling was completed, a hydraulic report was created to document a "No-Rise / No-Impact" Certification for the Client and local floodplain administrator. Additionally, since the Existing Conditions model was higher than the Effective Base Flood Elevations, a Conditional Letter of Map Revision (CLOMR) was submitted to and approved by FEMA.
07/22 - 12/22	**TIR Planning Project SR-17 over South Chickamauga Creek, TN.** Hydraulic Engineer. Volkert was selected by the Tennessee Department of Transportation to provide planning and design services for the replacement of a 420', 7-span bridge on SR-17 (Bonny Oaks Drive) over Chickamauga Creek in Hamilton County, Tennessee. The existing bridgeconsists of 6 approach spans containing concrete T-beams and a main span over the river containing a 162' fracture critical steel truss. Included in Volkert's scope of work is the development of a TIR (Transportation Investment Report) which includes the analysis of multiple alignment alternatives which will be used to determine the location of the new bridge. Preliminary hydraulics design is included in the development of the TIR to assist in determining the best bridge geometry and hydraulic opening considering cost and constructability, while satisfying all local floodplain ordinances, FEMA floodplain regulations, and TDOT design criteria. When developing potential replacement structures, coordination with other bridge design team members and consideration of existing site constraints will be important, as it is noted the horizontal roadway alignment is restricted by existing Norfolk Southern and CSX railroad bridges located along SR-17 near the bridge replacement site. Another challenge to be considered as part of the geometric and hydraulic design of this project is that of a pedestrian bridge that carries a greenway across Chickamauga Creek and threads beneath the SR-17 bridge between one of the abutments and piers. HEC-RAS hydraulic modeling will be used to assess the proposed bridge alternatives within the Chickamauga Creek floodplain, utilizing the latest site survey data supplemented with available LiDAR elevation data. The resulting alternative impacts were documented within a hydraulic report and a bridge recommendation was presented.

	Firm employed by: Volkert, Inc.			
	**Chris Duncan, PE |** *Roadway & Drainage Studies*		Years of relevant experience with this employer	3
			Years of relevant experience with other employer(s)	11
	Degree(s) / Years / Specialization	MS | 2018 | Civil Engineering BS | 2014 | Mechanical Engineering	Year registered	2021
	Active registration number / state / expiration date	31435 / MS / 12/31/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Duncan will provide roadway and drainage studies 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 time years of experience specified in the applicable MPR(s).

Chris joined Volkert in 2022 as a Senior Structural Engineer with seven years of structural design experience. Before joining Volkert, he was an engineer for the Mississippi Department of Transportation where he performed complex bridge design and served as the Preventive Maintenance Program Manager. Chris has designed prestressed concrete and hybrid composite plate girder superstructures as well as structural steel and reinforced concrete substructures including drilled shaft foundation design. Chris was the first engineer to design a composite, hybrid high-strength steel plate girder at the Mississippi Department of Transportation which included finite element analysis and displacement-based seismic design. He is currently pursuing his Ph.D. in Mechanical Engineering at Mississippi State University with a focus on concrete material model development for nonlinear finite element analysis implementation under high-strain rate loading.
Mr. Duncan's certifications include:

- Professional Engineer: MS PE #31435
- Professional Engineer: TN PE #126335
- Professional Engineer: AR PE #20837

07/21 - 10/24	**Tiger Boulevard Overpass - City of Bentonville** - The project consists of engineering, utility relocation, and construction management for a new bridge over Interstate 49 in Bentonville, AR to provide connection across the freeway. Project will require relocation of portions of McCollum Drive and Rice Lane. Volkert will prepare plans, specifications, and cost estimates for the project for roadway and utility design, and coordination as part of the development of construction plans.
05/21 - 11/23	**Owners Representative for Natchez Boat Dock** - Lead roadway designer - project scope consisted of raising the elevation of existing Silver St. and constructing a new parking and loading area for river cruise lines to moor and load and unload passengers. The project includes retaining wall design, pedestrian lighting design, and coordination between Volkert and the various cruise lines seeking to construct docking facilities. This project involved the design of a stormwater inlet system to handle surface flow through the curb and gutter sections, as well as the design of several special design sheets to instruct the contractor on how to modify existing inlets into junction boxes.
07/22 - 01/23	**Crooked Creek Street, for ArDOT.** Project engineer - project scope consists of relocating existing Hwy. 13 and constructing a new bridge over Crooked Creek. The project includes hydraulic design, bridge design, and roadway design, all by Volkert. This project involves the design of the traffic control during construction as well as the design of the erosion control measures that would be installed by the contractor during the different phases of construction. This project is currently in the 60% design stage.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
08/21 - 06/22	**Timber Bridge Inspection IDIQ Master Contract - Office of State Aid Road Construction** - The work assignments included any timber sub structure or timber superstructure as requested by OSARC. Volkert bridge inspectors conducted an NBIS safety inspection; developed load ratings for each bridge, and provided recommendations when the rating needed to be adjusted, developed maintenance and repair recommendations as required, and developed plans and cost estimates for maintenance and repair recommendations.
07/21 - 06/22	**MDOT – SR 35 over Sugar Creek Bridge Replacement and Box Culvert Replacement - Sugar Creek Tributary** - Senior design engineer for the design of the prestressed concrete girder superstructure (FIB-36 girders). Provided quality assurance design, load rating and construction plan checks for the replacement bridge. Designed and detailed custom reinforced concrete box extension.

Firm employed by: Volkert, Inc.

Hadi Shirazi, PE, PTOE | *Traffic Studies/Public Involvement*

MPR 21

Years of relevant experience with this employer	1		
Years of relevant experience with other employer(s)	34		
Degree(s) / Years / Specialization	BS | 1991 | Civil Engineering	Year registered	1997
Active registration number / state / expiration date	27415 | LA | 9/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Shirazi will provide traffic studies and public involvement 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 time years of experience specified in the applicable MPR(s).
	Experienced Senior Transportation Engineer with in-depth over 30 years of experience leading and managing small to large sized projects. Adept at project planning and scheduling to stay on budget. Outstanding skills in design analysis, highway safety engineering, strategic planning and quality control.
11/24 - 12/24	NLCOG SS4A. Performed highway safety Review on sections and intersections for Northwest Louisiana Council of Governments (NLCOG), Shreveport, Louisiana. A review of all traffic and safety was conducted for the region including Bossier, Caddo, DeSoto, and Webster parishes. The review was carried out to show the need for an action plan in the area.
01/25 - Ongoing	US 190 West Roundabout. Performed temporary traffic signal design and traffic engineering review for Local government and LADOTD (Louisiana Department of Transportation and Development) of US 190 West roundabout from LA 433 to US 11. Performed 60% preliminary temporary traffic signal design and All-Way Stop Control for three-single lane roundabouts at Westminster Dr, Maris Stelle St, and Caroll/Sunset Dr.
01/25 - Ongoing	CAPEX, TxDOT. Performed traffic signal design review for Texas Department of Transportation and City of Austin on the I-35 Capital Express Central (CapEx) project that is in the central region of the Austin metropolitan area for approximately 8 miles along IH 35 between US 290 East and SH 71/Ben White Boulevard. January 2025 to Present
Prior to Volkert 05/91 - 11/24	Traffic Engineering Management Manager (LADOTD) Responsible for providing traffic engineering study and operational expertise, perform feasibility study, speed studies, and safety operational improvements of the state highway system for the LADOTD.

	Firm employed by: Volkert, Inc.			
	**Jonathan Gambino, PE, PTOE, RSP1** | *Traffic Studies/Public Involvement*		Years of relevant experience with this employer	4
			Years of relevant experience with other employer(s)	8
	Degree(s) / Years / Specialization	BS | 2012 | Civil Engineering	Year registered	2017
	Active registration number / state / expiration date	41496 | LA | 9/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Gambino will provide traffic studies and public involvement 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 time years of experience specified in the applicable MPR(s).

Mr. Gambino joined Volkert in 2020 and has 10 years of experience developing civil and traffic engineering plans, specifications, and studies. This includes identifying and adhering to applicable state policies and procedures for project plan development. His experience includes the use of MicroStation, InRoads, AASHTOWare Project, VISSIM, Vistro, Synchro plus SimTraffic, Sidra Intersection, HCS, Tru-Traffic, AutoCAD, ACAD Civil 3D, CORSIM, TEAPAC, and TS/PP Draft programs. Mr. Gambino's certifications include:

- PTOE (#4433)
- RSP1 (#587)
- ATSSA Flagger Certification
- ATSSA Traffic Control Technician Certification
- Traffic Engineering Analysis Process & Report, Module 1, 2, 3 (2019)

07/21 - Ongoing	**IMR Highland Road to LA 73, East Baton Rouge and Ascension Parishes, DOTD** | The interchange of I-10 at LA 42 (Highland Road) has been experiencing capacity issues as well as queuing along Highland Rd. The purpose of the Interchange Modification Report (IMR) is to analyze the existing roadway network and identify the best alternative to improve capacity at I-10 and Highland Rd interchange as well as any alternatives to improve Highland Rd. The goal of the project is minimize queuing on to the interstate. Mr. Gambino was responsible for coordinating a significant amount of data collection such as 7-day volume and classification counts, a speed study, travel time study, and field observations. This information will be input into a VISSIM simulation model and calibrated to match the field conditions. This model will be used to help identify the best alternatives to improve capacity, increase safety, and reduce delay the Interchange at I-10 and LA 42 in both the interim and long-term stages.
2017 - 2021	**Owner Verification Services for College Drive Flyover Ramp (I-10/I-12 west) in East Baton Rouge Parish for the Louisiana Department of Transportation and Development (DOTD)** | Mr. Gambino served as Traffic Engineer for this project that consisted of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Volkert provided all necessary engineering services as part of this Design-Build/Owner Verification project. This included design reviews for bridges, roads, hydraulics, electrical and ROW Acquisition efforts as well as contract administration, scheduling, document control, and construction phase services. | SP No. 4400019680, S.P. No H.013897.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).).
02/20 –11/21	**Joe Sevario Road at LA 933 Roundabout, Ascension Parish, LA (sub to SJB Group, LLC for Ascension Parish)** | Mr. Gambino is serving as Traffic Engineer for this project. SJB provided civil engineering, survey, SUE services and Volkert provided engineering support including development of a traffic study and geometric layouts for this roundabout to alleviate congestion and delays along this corridor.
10/15 - Ongoing	**MacArthur Interchange Completion Phase II, Jefferson Parish, LA (DOTD)** | Mr. Gambino is serving as Traffic Engineer for this project. This project includes the removal of one-off ramp and the addition of another on and off ramp eastbound of the West Bank Expressway in New Orleans. He also has served as the QA/QC manager of the plans and design which has encompassed the review of the constructability of various design and detail options. An example is to recommend drilled shafts instead of driving piles to minimize interference with the ground traffic and problems with the vibration during pile driving and overrun pile pay quantities. The project presents several challenges to its designers given it requires the strategic removal of a portion of the existing bridge made of the prestressed concrete box girders and transitioning to its two new bridge ramps. Working within the existing right of way and managing the movement of traffic during construction is among other requirements and challenges. | S.P. No. H.011309.
08/17 - 02/20	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport)** | Mr. Gambino served as Traffic Engineer for the design of Plank Road (the new alignment). This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection. This project is an Airport project, funded by FAA, but the road will be transferred to DOTD.
09/20 - 09/21	**Oak Harbor Bridge Repair for DOTD** | Mr. Gambino served as Project Manager. The bridge was struck by an excavator on a lowboy and several of the girders were damaged. Volkert provided a design and plans to repair the Oak Harbor bridge over I-10. The repair was designed is an in-place repair for any damaged prestressed girders as a result of the accident. Volkert followed the processes and procedures required by DOTD to authorize the in-place repair. As a subconsultant to Kort Volkert reviewed as-build drawings and current inspection reports for the bridge prior to design, participated in field visits to perform damage assessments, and prepared a recommendation report that detailed the damages and load rating analysis to verify current capacity with current stresses on the structure. Volkert also provided as needed construction administration during the repairs.
06/17 - 06/18	**I-10 Widening Design/ Williams Blvd. Interchange to Veterans Blvd. Interchange** | Mr. Gambino served as Project Engineer. This project involved the widening of I-10 between the Williams Boulevard and Veterans Boulevard interchanges in Jefferson parish. The total project length was 1.85 Miles. The project consisted of constructing one 12' additional lane with a 12' inside shoulder along I-10 eastbound and westbound roadways with median barrier. Additionally, an auxiliary lane was added to the outside of the eastbound roadway from the entrance at Power Boulevard to the exit at Veterans Boulevard. As a part of this project, the existing bridges over Canal No. 3 and Veterans Boulevard were replaced, and sound barriers were constructed on the north side of the I-10 westbound bridges. Volkert was responsible for the development and road design, drainage design and Traffic Management Plans.

	Firm employed by: Volkert, Inc.			
	**Angelo "Trey" Pecoraro, EI** | *Traffic Studies*		Years of relevant experience with this employer	2
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS | 2021 | Civil Engineering	Year registered	2022
	Active registration number / state / expiration date	35212 | LA EI | 03/31/2027	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Pecoraro will provide traffic studies 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 time years of experience specified in the applicable MPR(s).
Mr. Pecoraro serves as an Engineering Intern for Volkert's New Orleans practice and has 2 years of experience in both construction and design for several projects in Louisiana including: bridge construction, in-service bridge inspection, roadway construction, retaining wall construction, traffic studies/ analyses, and safe street action plans. His responsibilities have included: project management, construction engineering and inspection, traffic count analysis, crash data analysis, quality control, and bridge inspection.	
05/23 - 01/24	**North Pontchartrain at US 190 Traffic Analysis (St. Tammany Parish, LA) |** Mr. Pecoraro served as an Engineering Intern tasked to provide traffic count analysis, crash data analysis, and make improvement recommendations for the project intersection under the supervision of a Professional Traffic Operations Engineer (PTOE). The traffic analysis was performed to analyze the Level of Service (LOS) and safety operation and offer recommendations to improve traffic operations and safety at the intersection now and into the future.
07/23 - 10/23	**City of Natchitoches Safe Streets for All (SS4A) Safety Action Plan (Natchitoches, LA) |** Mr. Pecoraro serves as an Engineering Intern tasked to provide crash data analysis and to make project recommendations based on crash analysis results and existing conditions under the supervision of a Professional Traffic Operation Engineer (PTOE) for the Natchitoches SS4A project. The goal of the project is to significantly reduce or eliminate traffic fatalities and severe injury crashes in the city of Natchitoches.
08/23 - 12/23	**Military Road/ Brownswitch Road Traffic Impact Analysis (St. Tammany Parish, LA) |** Mr. Pecoraro serves as an Engineering Intern tasked to provide traffic count analysis, crash data analysis, and make improvement recommendations for the project segment (Military Road between Crawford Landing and Brownswitch Road, 4 intersections in the segment) under the supervision of a Professional Traffic Operations Engineer (PTOE) due to the construction of a large single-family home subdivision. The traffic analysis was performed to analyze the Level of Service (LOS) and safety operations of the segment and offer recommendations to improve traffic operations and safety operations in the area now and into the future.

Firm employed by: Volkert, Inc.

Clinton Patrick, PE, PLS | *Survey*

MPR 24

Years of relevant experience with this employer	9		
Years of relevant experience with other employer(s)	3		
Degree(s) / Years / Specialization	BS | 2012 | Civil Engineering	Year registered	2016 2023
Active registration number / state / expiration date	40919 | LA PE | 03/31/2027 5311 | LA PLS | 09/30/2025	Discipline	Civil Surveyor

Contract role(s) / brief description of responsibilities:
Mr. Patrick will provide survey services. Mr. Patrick fulills Minimum Personnel Requirement #24.

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).
	Mr. Patrick has 10 years' experience. His skills include Team & Project Management, Relationship Building, Critical Analysis, Strategic Planning, Delegation, Budgeting, HEC-RAS, Autodesk Storm 6 Sanitary Sewer Analysis, MicroStation, AutoCAD Civil 3D. His certifications include: Class IV Wastewater Operator
11/24 - 12/27	**Kings Highway Improvements, City of Shreveport.** Project Manager. Volkert is leading the planning and design efforts for the potential transformation of Kings Highway near Centenary College in Shreveport, Louisiana. The project envisions a strategic road diet, reducing the current four-lane roadway to a two-lane configuration to promote safer and more accessible travel for all users. By incorporating enhanced pedestrian access, dedicated bike lanes, and the option for side street parking, the proposed improvements aim to create a vibrant and inclusive streetscape that meets the needs of the community.
11/24 - 12/26	**SportTran Bus Stops, City of Shreveport.** Project Manager. Volkert will provide project management and engineering services for the design and construction of 110 bus stops to include bus shelter pads while ensuring compliance with ADA guidelines.
01/15 - 12/25	**City of Monroe - Georgia Street Pump Street.** Design of a flood pumping station for the City of Monroe to address an area that was identified as a repetitive loss area. The project needed to meet key guidelines to facilitate Louisiana Statewide Flood Control funding while ensuring that the pump station would operate during events of power loss. The project included the pumping station, retention pond for additional flood storage and a backup generator to ensure that the pumping station would be operational during storm events.
05/15 - 12/22	**I-20 Economic Board - Nutland Road to Lowes I-20 Frontage Road.** Part of the design team for a frontage road along I-20 on the southern side connecting the existing Nutland Road to its termination near Garrett Road on the eastern end of the project. The project included road and drainage structures that required the installation of box culverts to cross major drainage structures in the area. The project also required the expansion of the City's water and sewer system. A new water mail along with a new gravity sewer main and sewer lift station were required to service the future development along the newly constructed Frontage Road.
08/15 - 08/19	**Sterlington Park, LLC - Somerset Park.** 5-Phase Residential Development with approximately 850 lots which included roadway, drainage, detention, storm sewer, gravity sewer, sewer lift station and main, and water main. Project included 2 detention areas and all-underground drainage systems.

Firm employed by: Volkert, Inc.

Randy Denmon, PE, PLS | *Project Surveyor*

MPR 25

Years of relevant experience with this employer	31		
Years of relevant experience with other employer(s)	0		
Degree(s) / Years / Specialization	B.S. Mathematics, 1992 M.S. Civil Engineering, 1996	Year registered	1996 2001
Active registration number / state / expiration date	4798 | LA PLS | 3/31/2027 29390 | LA PE | 3/31/2027	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Denmon will provide survey services. Mr. Denmon fulills Minimum Personnel Requirement #25.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Mr. Denmon has over 31 years' experience in civil engineering/construction management and land surveying, primarily as a Public Works and Flood Control Engineer. Mr. Denmon is a registered Civil Engineer and Surveyor in the State of Louisiana. Mr. Denmon has vast experience working on Water Resource, Flood Control, and Transportation projects, and well as Surveying. His experience includes: hydraulic design, construction management, analysis of water supply structures, watershed and stream modeling, and flood mapping. In his career, Mr. Denmon has been the lead engineer in flood mapping or stream modeling projects on over 50 major, named watersheds in Louisiana for such clients as: La. Department of Transportation, and other State Agencies, Watershed and Lake Districts, and many local governments. He has also managed dozens of roadway projects for the DOTD and local governments. He is a certified DOTD Project Manager. Mr. Denmon has extensive experience with Microstation, AutoCAD, Intergraph, and Bentley computer aided design applications, and the US Army Corps of Engineers' HEC-RAS and HMS hydrologic modeling programs.
12/21-1/23	**IDIQ Contract for Louisiana Watershed Initiative (LWI) Modeling Contract, Region 3, DOTD, State Contract No. 4400017069.** Sub to Wood for topographic surveying on streams and bridges. Four Task Orders for $1,426,244. Surveyor in charge of all survey work.
04/20 - Ongoing	**Retainer Contract For Dam Inspection and Related Engineering of State Regulated Dams, LADOTD** Surveying, Field inspection and dam safety reports for State regulated dams. Work includes topographic surveying and H&H modeling of dams, lakes and discharge channels, and field inspection reports with the LADOTD's Terraflex software. Final stamped reports of all inspections submitted to the LADOTD.
10/17-02/23	**Retainer Contract for Dam Inspection and Related Engineering, of State-Regulated Dams, Statewide.** Project Manager for Surveying, Field inspection and dam safety reports for State regulated dams. Work includes topographic surveying and H&H modeling of dams, lakes and discharge channels, and field inspection reports with the LADOTD's GeoCortex software. Final stamped reports of all inspections submitted to the LADOTD.
06/05-07/11	**Statewide Dam Breach Analysis (Statewide, LA).** Dam Breach Analysis and Emergency Action Plans (EAP) on 20 dams owned or regulated by the State of Louisiana. Work included downstream basin, bridge, and dam surveys on selected dams, the construction of HEC-RAS computer models to model dam breaches, production of final reports, dam hazard level classifications, flood inundation maps, and EAP's.
01/06-01/08	**Cross Lake Erosion Repairs, Project Manager.** Work included: 1) Erosion repair that included underwater concrete and riprap, 2) the completion of an Emergency Action Plan in accordance with LADOTD dam safety regulations; 3) final design, bidding, and award for the clearing and grubbing of the dam; 4) detailed field surveys of the dam; and 5) a full geotechnical analysis of the dam that included 26 borings, lab analysis, the installation of 6 piezometers, groundwater investigation, stability analysis, through seepage analysis, underseepage analysis, and recommendations for corrective measures for the dam.

	**Firm employed by: Volkert, Inc.** **Micah Fremin, R/W-RAC |** *Conceptual Relocation* MPR 13		Years of relevant experience with this employer	7
			Years of relevant experience with other employer(s)	15
	Degree(s) / Years / Specialization	BSBA | 2009 | Management	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Fremin will provide conceptual relocation services. Mr. Fremin fulills Minimum Personnel Requirement #13.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Mr. Fremin is a right-of-way professional with over 22 years of experience acquiring property for projects implemented under the provisions of the Uniform Act. Proven ability to manage large scale projects and deliver real estate on schedule. Specialization in business relocation.	
02/20 - 09/24	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements.** Mr. Fremin served as the right-of-way coordinator for the Belle Chasse Improvements Project. Volkert was responsible for providing all Engineering Design and Construction Support services, including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public-Private Partnership (P3) Project, which provided for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This included the development of construction plans, bridge replacement plans, decommissioning of the Tunnel, and development of O&M plans. As the OVT, Volkert provided guidance and support to the LADOTD Project Manager prior to and during reviews, developed review comments, attended project meetings, ensured that the DBT adhered to their contract, and addressed other assignments as directed.
05/18 - 06/22	**Plank Road Realignment East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport).** Mr. Fremin served as the right-of-way coordinator for the Plank Road Relocation project. Volkert is providing design, environmental permitting, and ROW acquisition for the relocation of Plank Road on a new alignment. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection.
05/18 - 11/19	**Roundabout at Highway 929 and Highway 930 in Prairieville, LA for Ascension Parish.** Mr. Fremin served as the right-of-way coordinator. As part of the Move Ascension program Volkert was assigned a task order to develop plans for a Roundabout Highway 929 and Highway 930, Prairieville, LA. The roundabout replaced the existing stop-controlled intersection and consists of a single lane asphalt roundabout. The roundabout was designed through SIDRA, AASHTO, and Louisiana DOTD standards.

	Firm employed by: Volkert, Inc.			
	**Perry Leblanc** | *Design Technician*		Years of relevant experience with this employer	8
			Years of relevant experience with other employer(s)	20
	Degree(s) / Years / Specialization	1998 | Drafting & Design Technology	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Leblanc will provide design technician 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 time years of experience specified in the applicable MPR(s).
Mr. LeBlanc joined Volkert's Baton Rouge office in 2016, after an eighteen-year career working in design and as a CADD instructor at a local technical college. He is responsible for the CADD design of engineering projects for airports and other engineering projects. He has extensive experience in generating 3D models of projects.	
01/19 - Ongoing	**Plank Road Realignment East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport)**. Mr. Leblanc assisted with plan design and layout. Volkert is providing design, environmental permitting, and ROW acquisition for the relocation of Plank Road on a new alignment. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection.
01/20 - 01/21	**Roundabout at Highway 929 and Highway 930 Prairieville, LA, Ascension Parish, LA (DOTD).** Mr. Leblanc assisted with plan design and layout. As part of the Move Ascension program Volkert was assigned a task order to develop plans for a Roundabout Highway 929 and Highway 930, Prairieville, LA. The roundabout will replace the existing stop-controlled intersection and consists of a single lane asphalt roundabout. The roundabout will be designed through SIDRA, AASHTO, and Louisiana DOTD standards. The project required traffic analysis, development of construction plans, drainage improvements, lighting, topographic survey, ROW mapping, geotechnical services and SUE services.
01/20 - 01/21	**Joe Sevario Road at LA 933 Roundabout, Ascension Parish, LA (sub to SJB Group, LLC for Ascension Parish)**. Mr. Leblanc assisted with plan design and layout. SJB provided civil engineering, survey, SUE services and Volkert provided engineering support including development of a traffic study and geometric layouts for this roundabout to alleviate congestion and delays along this corridor.
A - 2021; B - 2022; C-Ongoing; D - Ongoing	**Filmore Group A, B, C, and D, New Orleans, LA (City of New Orleans).** Mr. Leblanc assisted with plan design and layout for this project that consisted of providing full roadway replacement for several streets in New Orleans, LA. The replacement included full drainage upgrades, waterline upgrades, sewer upgrades and sidewalks consistent with their master planning. Volkert was responsible for the preliminary design through the 100% final design plan submittal.
06/17 - 11/17	**Causeway Segmented Shoulder Bay Improvements on the Lake Pontchartrain Bridge in Louisiana, St. Tammany and Jefferson Parish, LA; (Greater New Orleans Expressway Commission)**. Mr. Leblanc assisted with plan design and layout. Volkert has served as agent to the Greater New Orleans Expressway Commission for the Lake Pontchartrain Causeway Bridge Segmented Shoulder Bay permitting work. Volkert developed permit applications and extensive supporting information for several Joint Permit Applications with USACE/LDNR OCM related to the Bridge Segmented Shoulder Bays, test piles, and mooring piles. Work included Section 404/10 considerations, approval of work in the coastal zone and LDEQ Water Quality Certification. The Segmented Shoulder Bay work also required a U.S. Coast Guard Bridge permit. Volkert worked closely with the Eighth Coast Guard District to satisfy NEPA requirements, environmental agency coordination, and many other requirements of the Bridge Permit Application Guide.

	Firm employed by: Volkert, Inc.			
	**Chad Fischer** | *Design Technician*		Years of relevant experience with this employer	28
			Years of relevant experience with other employer(s)	28
	Degree(s) / Years / Specialization	1998 | Drafting & Design Technology	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Fischer will provide design technician 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 time years of experience specified in the applicable MPR(s).
	For 28 years, Mr. Fisher has been actively engaged in the field of civil design, cost estimates, manhour analysis, construction administration, construction inspection & drafting, especially as it relates to civil design projects. Mr. Fisher has used several Cad platforms and various design packages, such as Microstation V8i, Autocad 2018, Inroads V8i, Softdesk & Civil 3D. Mr. Fisher's responsibilities include preparation of preliminary and final cost estimates, manhour analysis, construction inspection/supervision, design drawings including plan & profile sheets, typical sections, geometrics and special details, cross-sections, drainage maps, and right-of-maps.
02/22 - 12/23	**Donaldson and Mcfee St.- Bridge (Bastrop, LA).** Work directly with the Project Engineer to perform interim bridge evaluations/inspections.
10/22 - 10/23	**East Carroll Parish Police Jury – Bridge.** Work directly with the Project Engineer to perform interim bridge evaluations/inspections.
09/21 - 09/22	**Bastrop General Engineering (Bastrop, LA).** Work directly with the Project Manager to perform general engineering projects.
08/20 - 08/21	**Bossier Parish Proposed Street Improvements – Disaster Relief – 2016 Flood Event (Bossier Parish, LA).** Mr. Fisher worked directly with the Project Engineer to prepare preliminary and final drawings including plan & profile sheets, typical sections, using Microstation V8I, Autocad 2018 & Civil Packages. Prepared Preliminary & Final Cost estimates.
11/15 - 07/19	**LA 3249/Roundabout.** Work directly with the Project Engineer to prepare preliminary and final drawings including plan & profile sheets, typical sections, geometrics and specialdetails, cross-sections, drainage maps, and right-of-maps using Microstation V8I & Civil Packages. Prepared Manhour Analysis, Preliminary & Final Cost estimates.
09/04 - 03/11 07/16 - 05/18	**Bastrop City Streets – 2004, 2016.** Work directly with the Project Engineer to prepare preliminary and final drawings including plan & profile sheets, typical sections, geometrics and special details, cross-sections, drainage maps, sewer repair details and right-of-maps using Microstation J & V8I, Autocad & Civil Packages. Prepared Preliminary & Final Cost estimates. In charge of construction supervision and inspection for 2016 project.
03/01 - 04/16	**SPN 700-24-0087; FAP No. STPM-8456(002); Fink's Hide A-Way Road (US 165 - Raymond Drive); Ouachita Parish.** Work directly with the Project Engineer and Inspectors to enter information into DOTD Site Manager Program. Produced final closeout documents.

	Firm employed by: Volkert, Inc.			
	**Robyn Tate** | *Design Technician*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization	BS | 2022 | Civil Engineering	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Tate will provide design technician 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 time years of experience specified in the applicable MPR(s).
Ms. Tate joined Volkert in 2024 with 2 years of experience in transportation infrastructure design and compliance. She has expertise in TxDOT standards, SW3P plan sheets, and stormwater pollution plans; proficient in AutoTurn software for traffic improvement designs. Experience includes development of cost estimates for roadway projects, ensuring alignment with environmental and municipal regulations.	
05/24 - Ongoing	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport)** | The project is for the relocation of Plank Road on a new alignment and includes all ROW acquisition and all the design for a new 4-lane highway with J-turns. It also includes all ROW acquisition and all the design for additional lanes along Harding and Hooper Roads including the implementation of complete streets, a new lighting system and a new signalized intersection.
05/24 - Ongoing	**I-35 Northeast Expansion South Project.** Engineer Technician. Collaborated with senior engineer to establish SW3P plan sheets, ensuring compliance with environmental regulations. Analyzed roadway and drainage plans to recommend effective temporary erosion control measures for proposed construction projects. Applied TxDOT standards and engineering principles to design comprehensive Sewer Water Pollution Prevention Plans.
05/24 - Ongoing	**I-35 (Nex) South Project.** Engineer Technician. Analyzed turning movements with AutoTurn software, resulting in design recommendations for temporary traffic improvements. Formulated and secured client approval for a detour plan, optimizing traffic flow during construction. Created standard typical sections following project award to guide subsequent construction phases.

	Firm employed by: Volkert, Inc.			
	**John Alikhani** | *Design Technician*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS | 2022 | Civil Engineering	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Alikhani will provide design technician 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 time years of experience specified in the applicable MPR(s).
Mr. Alikhani joined Volkert in 2023 as an intern working with the engineering staff. He provides civil engineering support on a variety of projects in our Baton Rouge office, including document control.	
05/23 - Ongoing	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport)** | The project is for the relocation of Plank Road on a new alignment and includes all ROW acquisition and all the design for a new 4-lane highway with J-turns. It also includes all ROW acquisition and all the design for additional lanes along Harding and Hooper Roads including the implementation of complete streets, a new lighting system and a new signalized intersection.
07/23 - 10/23	**City of Natchitoches Comprehensive Safety Action Plan For Safe Streets for All** | (SS4A) Program | The Action Plan is to identify and prioritize a list of specific projects that have the greatest potential to eliminate traffic fatalities and severe injuries, and potential funding sources. Volkert is delivering a plan that meets SS4A requirements and providing Natchitoches with an interactive toolkit to prioritize fundable and implementable projects that will improve safety, reduce crashes, fatalities, and serious injuries on Natchitoches' roadways.
03/23 - 03/23	**Filmore North (Group D -RR040) for the City of New Orleans Department of Public Works in New Orleans, LA** | Design is nearing completion and will consist of over 5,000 linear feet full pavement replacement of several local streets including Mithra St., Crescent Dr., Chamberlain Drive and Pratt Drive. This will also include all new pavement, sidewalks, ADA handicapped ramps, new water lines, new sewer lines, lining of sewer services laterals, and new drainage lines, keeping in mind the recommendations of the Mirabeau Gardens stormwater management and green infrastructure project, as well as special consideration of pavements near aged oak trees.

SECTION 16 | STAFF EXPERIENCE

Resumes included in the following order:

Larissa Rawlins, AICP | MPR #4
Jonathan Cox
Shirley Nichols
Jonathon Seddelmeyer, PE | MPR #14,15
Trevor Johnson, PE | MPR #14
Mark Shlyakov, PE | MPR #14
Tam Leung Kwok, PE | MPR #14,15
Ian Chaney | MPR #19
Charlie Wildman | MPR #19

Bookmarks added to pdf for ease of review.

	Firm employed by: WSP USA, Inc.			
	Larissa King Rawlins, AICP | *NEPA/EIS*		Years of relevant experience with this employer	20
			Years of relevant experience with other employer(s)	26
	Degree(s) / Years / Specialization	BS | 1999 | Environmental Planning	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Rawlins will provide NEPA/EIS services. Ms. Rawlins fulfills Minimum Personnel Requirement #4.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Larissa King Rawlins provides expertise in complying with the National Environmental Policy Act (NEPA), Washington State Environmental Policy Act (SEPA) and other federal, state, and local environmental regulations with a focus on transportation projects, including bridges. Larissa has worked on and managed the NEPA, SEPA, Section 106 and ESA processes and documentation for 13 DCEs, 12 EAs, and 10 EISs, and has a land use planning and permitting background from her previous work for local agency planning departments. Larissa understands the importance of integrated decision-making between planning, design and environmental and ensuring that early decisions will streamline the environmental process. She has established a reputation as a trusted expert and collaborator with her clients and the other agencies she has engaged.	
04/23 - Ongoing	**Washington State Department of Transportation (WSDOT) US 2 Trestle Capacity Improvements and Westbound Trestle Replacement Planning and Environmental Linkage (PEL) Study:** Environmental lead for this federal PEL Study. The PEL Study has identified the Purpose and Need for the study to develop long-term transportation solutions to improve the multimodal mobility, safety, and resiliency of the US 2 Trestle structures, which are the only connection between east Snohomish County communities and the City of Everett. Planning decisions, such as Purpose and Need and the range of alternatives, made during the PEL study will be adopted in to the future project-level NEPA process. Larissa is leading the environmental analysis and coordination with FHWA, and is supporting coordination with agency, community, and elected leader advisory groups and the public.
03/21 - Ongoing	**WSDOT/ODOT Interstate Bridge Replacement (IBR) Program, Portland Oregon and Vancouver Washington:** Larissa is working closely with the IBR Program's environmental team on this project to replace the Interstate 5 Bridges over the Columbia River and North Portland Harbor, extend high-capacity transit into downtown Vancouver, Washington, and construct a system of shared use paths. Larissa led the team of subject matter experts to prepare the program's 24 environmental technical reports and is a senior technical reviewer for the Draft Supplemental EIS document, response to public comments, and preparation of the Final Supplemental EIS and Record of Decision.
06/15 - 06/23	**WSDOT Industrial Way/Oregon Way Intersection EIS, Longview, Washington:** Project manager respnsible for leading the preparation of the Final EIS to grade separate an intersection of two state highways (State Route 432 and State Route 433) and three rail crossings in the Longview Industrial Corridor. For the Draft EIS phase of this project Larissa led the EIS scoping report, prepared responses to public and agency scoping comments and prepared the Visual Quality Discipline Report. In addition to WSDOT, key project stakeholders include the Port of Longview, the City of Longview and Cowlitz County. The project was put on hold by the Washington State legislature.

	Firm employed by: WSP USA, Inc.
06/23 - 06/24	**South Salem Transit Center, Salem, Oregon:** Larissa is the environmental lead preparing the NEPA DCE for a new transit center and mobility hub in south Salem. Larissa is leading coordination with FTA Region 10 and providing senior technical review of all supporting environmental documentation.
01/15 - 01/23	**California High-Speed Rail Authority California High-Speed Rail, Sacramento, California.** Senior technical reviewer of aesthetics and visual quality and agricultural technical reports and EIS/EIR sections for multiple segments of the HSR alignment. Larissa revised the Authority's California HSR – Project Level Environmental Methodology Guidelines for Aesthetics and Visual Quality to align with the FHWA's 2015 Guidelines for the Visual Impact Assessment of Highway Projects. She also worked directly with the Authority to develop its Design Opportunities for Local Jurisdictions and Aesthetic Requirements document that outlines the process for how the Authority will consult with local agencies to incorporate local aesthetics into the HSR system, including identifying the decision-making responsibilities.

	Firm employed by: WSP USA, Inc.			
	Jonathan Cox | *NEPA/EIS*		Years of relevant experience with this employer	5
			Years of relevant experience with other employer(s)	22
	Degree(s) / Years / Specialization	BS | 1998 | Environmental Economics and Management	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Cox will provide NEPA/EIS 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 time years of experience specified in the applicable MPR(s).
Jonathan Cox is a senior National/Georgia Environmental Policy Act (NEPA/GEPA) planner and project manager with over 22 years of experience in the transportation industry. For the first 15 years of his career, he worked for the Georgia Department of Transportation (GDOT) where he spent the final 10 years managing their NEPA group. For the past seven years, he worked in the private sector focusing on environmental compliance and project delivery primarily for GDOT.	
04/25 - Ongoing	**GDOT, I-285 and I-20 West Interchange Reconstruction (PI# 0013918), Atlanta, Georgia: Environmental Lead.** The project is part of GDOT's MMIP and will reconstruct the interchange on the west side of Atlanta. Jonathan was the lead writer and oversaw all studies that concluded with the FHWA approval of the EA and FONSI. The project included both terrestrial and aquatic archaeology studies; historic resource surveys, assessment of effects, and the development of a mitigation Memorandum of Agreement; detailed noise studies with the barrier design of over 15 noise barriers; extensive community engagement including coordination with environmental justice communities and the development of an extensive project mitigation plan, and public meetings including in person PIOH's, virtual public meetings, public hearing, and a series of post public hearing meetings as part of the mitigation coordination. Jonathan served as the lead writer and environmental project manager which required the development and monitoring of the project schedule, the development of all NEPA documentation, and close coordination with various state and federal review agencies.
03/24 - Ongoing	**GDOT, 15th Street Extension from SR 9 to Williams Street (PI# 0015019), Atlanta, Georgia:** Environmental Lead. The Midtown Alliance/City of Atlanta sponsored project is a multi-modal connection to be implemented within existing ROW. In addition to the new lanes added, the project is installing sidewalks, a furniture zone, and bike lanes to better connections to the Arts Center MARTA station. Jonathan was the environmental lead and main writer of the NEPA Categorical Exclusion (CE). While the project had limited environmental resources due to its setting, Jonathan has to negotiate the project down to a CE with FHWA because FHWA wanted to complete an EA (since the project is a new location roadway). In addition, Jonathan had to coordinate with traffic and engineering to develop a purpose and need to support the project and be able to suffice FHWA's Independent Utility requirements. The project let to construction in 2024.
06/24 - Ongoing	**GDOT, I-75 Northbound Ramps @ Moore's Mill Road (PI# 0017402), Atlanta, Georgia:** Environmental Lead. GDOT is proposing to install a roundabout at the Moore's Mill Road northbound ramp to I-75 to improve the operations. As the environmental lead, Jonathan has led the environmental resource ID activities which included the identification of ecological and cultural resources. Through coordination with design, adverse effects to historic resources has been avoided and no impacts to ecological resources will occur (a Section 404 permit and SBV will not be required). The project is currently advancing towards a CE approval with ROW acquisition scheduled to start in 2026.

	Firm employed by: WSP USA, Inc.			
	Shirley Nichols | *NEPA/EIS*		Years of relevant experience with this employer	2
			Years of relevant experience with other employer(s)	32
	Degree(s) / Years / Specialization	BS | 1987 | Geography and Planning, Environmental Studies	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Nichols will provide NEPA/EIS 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 time years of experience specified in the applicable MPR(s).
Shirley has over 34 years of progressive experience in NEPA compliance, environmental analyses, and public engagement in the planning and infrastructure field for manufacturing, transportation, electrical transmission, energy production, water and wastewater transmission, treatment and storage, water reclamation projects. She has an extensive background in regulatory compliance, environmental analyses, and public engagement in support of multi-sector infrastructure projects. Shirley has built and managed teams of planning and environmental professionals with a collaborative solutions-based approach.	
06/23 - Ongoing	**TxDOT, Corpus Christi District, Regional Parkway, North Padre Island, Environmental Impact Statement, TX:** Environmental PM for the Environmental Impact Statement to analyze highway improvements south of the City of Corpus Christi in Nueces and Kleberg Counties, Texas. The project builds on decades of feasibility and preliminary environmental linkages (PEL) studies to evaluate four new location alternate routes and the potential to upgrade the existing route along State Highway (SH) 358 from SH 286 in Nueces County crossing the Laguna Madre to Park Road (PR) 22, on Padre Island, in Kleberg County. The EIS process has begun with the Agency Scoping Meeting. Over 25 agencies have been invited to cooperate or participate including the US Fish and Wildlife Service and National Marine Fisheries Service for potential to impact federally threatened and endangered species in the environmentally-sensitive Laguna Madre and connected habitats; the Texas Historical Commission for NRHP eligible historic resources including the King Ranch; the US Coast Guard for bridge permitting; the USACE for WOTUS permitting; the National Park Service for the National Padre Island Seashore along with the regional local governments and the MPO. The comprehensive public outreach began with the public scoping meeting and is currently in the early alternative alignment analysis phase. The project is a high priority with the governor to provide an alternate island evacuation route during emergency events.
04/23 - Ongoing	**TxDOT, (TxDOT Beaumont District), US69, Woodville-Colmesneil Relief Route, Feasibility Study and Environmental Assessment, Beaumont, TX:** Environmental PM for an alternate south-north evacuation route in the growing area of Southeast Texas. The proposed project would improve safety by providing a relief route to reduce congestion on existing US69, address demand from freight traffic and provide an alternate/secondary route from south of Warren to north of Colmesneil. Comprehensive public outreach including stakeholder and public meetings is ongoing for determination of a preferred alternative. As part of the NEPA analyses, studies of the alternative's potential impacts will include USACE waters of the US, biological resources, noise, air, socioeconomics, environmental justice, and cultural resources.
02/23 - Ongoing	**TxDOT (El Paso District), TX:** Environmental PM. Staff augmentation to provide assistance in the environmental process through project development of multiple transportation projects at the CE and EA levels. Assisting in the oversight to deliver the Downtown 10 EIS through the city of El Paso from Executive Center Boulevard to Loop 478 or Copia Street. The purpose of the project is to provide long-term transportation solutions to improve mobility and long-term congestion management, reduce and improve incident management, and bring the facility up to current design standards. The proposed improvements include reconstruction of the main lanes,

	Firm employed by: WSP USA, Inc.
	retaining walls, bridges, ramps, and cross streets to overcome deterioration of pavement and bridges. The project includes a comprehensive public and stakeholder outreach plan along with agency coordination for historic and cultural resources throughout the corridor.
10/14 - 08/17	**State Loop 1 (MoPac) Intersections Project, Austin, TX:** Environmental Supervisor leading a highly technical team of subject matter experts, environmental scientists, geoscientists and water quality professionals to conduct an environmental assessment (EA) for the construction of underpasses at Slaughter Lane and La Crosse Avenue and extending Loop 1 (MoPac) main lanes through the intersections under both Slaughter Lane and La Crosse Avenue. The project included bicycle and pedestrian accommodations through the project limits. The project was located in an environmentally sensitive karst environment regulated by the Texas Commission on Environmental Quality (TCEQ). The neighboring residential communities wanted TxDOT to lower the highway main lanes under the city streets to mitigate noise impacts and create connectivity with shared-use paths. To achieve consensus, the team reassessed to determine if the improvements could be redesigned to lower the Mopac main lanes. Shirley's team conducted highly technical water quality and biological studies in conjunction with designers to determine a path forward for lowering the Mopac main lanes and constructing the Slaughter Lane and La Crosse Avenues intersections at-grade. The team successfully obtained a Finding of No Significant Impact and navigated the TCEQ permitting for approval prior to and throughout construction. Shirley's team provided close environmental monitoring and rapid response during construction for karst protections and maintenance of sensitive features throughout construction. Her team of geoscientists worked with designers during construction to change.
04/16 - 08/23	**TxDOT (Austin District), IH-35 Capital Express Central Environmental Impact Statement, Austin TX:** Environmental Supervisor 4/2016-8/2023. Project was federally-funded through FHWA and coordinated, reviewed and approved by FHWA through NEPA Delegation of Authority to TxDOT. Shirley led the highly technical team of subject matter experts, environmental scientists, and planners along with public engagement professionals garnering local government, agency and stakeholder support to conduct detailed environmental analyses and public outreach through the EIS process. Improvements include removing the existing I-35 decks, lowering the roadway, and adding two non-tolled high-occupancy vehicle managed lanes in each direction along I-35 from US 290 East to SH 71/Ben White Boulevard. The project will also reconstruct east-west cross-street bridges, add pedestrian and bicycle paths, and make additional safety and mobility improvements within the project limits. The lowering of the design allows for the reconnection of the historically segmented downtown and potential stitches and caps covering as much as 14 acres to provide greenspace, amenities and services. The EIS was approved with a Record of Decision on time August 2023.

	Firm employed by: WSP USA, Inc.			
	Jonathon Seddelmeyer, PE | *Bridge Studies* MPR 14,15		Years of relevant experience with this employer	7
			Years of relevant experience with other employer(s)	18
	Degree(s) / Years / Specialization	MS | 2000 | Structural Engineering BS | 1997 | Civil Engineering	Year registered	2025
	Active registration number / state / expiration date	49811 | LA | 09/30/2025	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Seddelmeyer will provide bridge studies services. Mr. Seddelmeyer fulfills Minimum Personnel Requirements #14 & 15.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Jonathon Seddelmeyer is a Senior Vice President, Structural Engineer with WSP USA experienced in the design and inspection of conventional and complex bridges, retaining walls, culverts, overhead signs and other transportation structures. Jonathon's career has focused on project feasibility and development, delivery of quality structural plans and providing technical support through the end of construction. Jonathon's project management duties have included supervising and coordinating the work of engineering teams, technical personnel, and subconsultants. He has also served as an extension of the owner's staff as a prime management consultant. He is experienced with the design-bid-build, design-build, and construction manager at risk methods of project delivery. He has experience working with railroad agencies including obtaining railroad approvals for twelve overpasses and the preliminary layout and design of the Texas High Speed Rail viaduct.
07/21 - 09/24	**I35 Capital Express Central (Lady Bird Lake), Austin, Texas:** bridge task leader for $764M project to widen 3.55 miles of I35, add managed lanes, and improve pedestrian access from SH 71 to the south end of downtown Austin. This project features four new bridge crossings of Lady Bird Lake that are designed for the flood and scour conditions of the Colorado River and an elevated SPUI at E Riverside Blvd that accommodates future CapMetro light rail lines. One lake bridge carries a 24" force main for City of Austin Water. Significant interdisciplinary coordination incorporated aesthetics, shade structures and pedestrian amenities, landscaping irrigation, and underbridge lighting within a tight design schedule.
10/19 - 10/24	**I35E, Lewisville, Texas:** bridge task leader for project to widen and add managed lanes for I35E, which includes the replacement of the Business 121 and Corporate Dr Overpasses. The Business 121 Overpass has high skew, and Jonathon designed post-tensioned straddle bents over the U-turn lanes to eliminate more expensive, steel girder spans. The Corporate Drive Overpass will reverse the roadways to carry I35E over Corporate and eliminate vertical clearance restrictions. Three construction stages are required for each bridge to maintain traffic for this critical corridor on the freight network.
11/19 - 03/22	**US183 South Design-Build Project, Austin, Texas:** project engineer responsible for postdesign and construction-phase services that include converting an existing culvert to a direct-drive condition for the $743 M Central Texas Regional Mobility Authority (CTRMA) project. The project adds capacity to US 183 between US 290 and SH 71 via tolled and nontolled lanes. Design elements include grade separations, direct connector interchanges, pedestrian facilities, drainage systems, ITS, illumination, and signalized intersections.
03/18 - 06/19	**Texas Central High-Speed Rail Segment 1, Texas:** structures lead for Segment 1 in Dallas. Jonathon was responsible for the preliminary layout of the 9.73-mile bridge viaduct, which begins at the station near downtown and crosses the UPRR, Trinity River floodplain and tributaries, Loop 12, IH 20, a cemetery, and local roads. The viability of this project depends upon reducing materials and construction time. Jonathon worked with the structures core team to optimize structural elements, accelerated construction, and optimize structure depths to lower the rail profile along the 240-mile alignment.

	Firm employed by: WSP USA, Inc.
02/15 -02/18	**Ship Channel Bridge, Harris County, Texas:** GEC main bridge coordinator responsible for constructability reviews, consultant coordination, and preparation of contract documents to replace the functionally obsolete Ship Channel Bridge on Beltway 8 with separate south and northbound bridges each carrying four traffic lanes and shoulders. The main bridge and approaches have an overall length of 11,081 feet, and the 1,320-foot main spans are cable-stayed and provide 175 feet vertical navigation clearance and have 514-foot-tall pylons placed out of the water for future Corps dredging. South approaches cross "Pipeline Alley" with more than 100 utilities, the Union Pacific Railroad, and are in an easement through an active Kinder-Morgan petrochemical facility. This project also involved the removal of the existing bridge, which had a 750-foot concrete box girder main span.
11/05 - 08/06	**I-10 over Lake Pontchartrain, New Orleans, Louisiana:** deputy project manager and project engineer responsible for segmental girder design and subconsultant coordination. This project involved the replacement of bridges destroyed by Hurricane Katrina. I-10 is the main thoroughfare that links Gulf Coast states and provides a key storm evacuation route. The new bridges carry three lanes of traffic plus shoulders in each direction, have crossovers for contraflow or other emergencies, and have a 200-foot main span for marine traffic. The height of the substructure was significantly raised to allow for a storm surge of over 30 feet. Alternate designs were competitively bid for segmental and conventional beam-slab construction to help minimize cost in the difficult post-Katrina environment in New Orleans. Contract milestone incentives were included to expedite completion of the first bridge prior to the 2010 hurricane season.
10/03 - 05/06	**Penobscot Narrows Bridge and Observatory, Bucksport, Maine:** project engineer in charge of developing the segmental girder and cable-stay anchor block shop drawings, as well as the design of footings, abutments, and high-capacity bearings. The bridge on US 1 was an emergency replacement of a suspension bridge with corroding main cables, and only 42 months elapsed from project conception to opening for traffic. The 2,120-foot, three-span, cable-stayed bridge has a 1,161-foot main span; 420-foot-tall pylons; and patented cradle system with pressurized, inert gas system for low long-term maintenance. Pylon foundations were constructed out of the water to provide clear river navigation, and the superstructure was constructed using cable-stayed balanced cantilever techniques. An observatory located at the top of one pylon provides views of the scenic and historic area. This project effort won many awards, including the 2007 American Segmental Bridge Institute Award of Excellence, 2007 International Bridge Conference George S. Richards Medal, and was selected by Roads and Bridges Magazine as a Top 25 Bridge of All-Time.

	Firm employed by: WSP USA, Inc.			
	Trevor Johnson, PE | *Bridge Studies*		Years of relevant experience with this employer	23
			Years of relevant experience with other employer(s)	1
	Degree(s) / Years / Specialization	BS | 2002 | Structural Engineering	Year registered	2021
	Active registration number / state / expiration date	45518 | LA | 09/30/2025	Discipline	Civil

MPR 14

Contract role(s) / brief description of responsibilities:
Mr. Johnson will provide bridge studies services. Mr. Johnson fulfills Minimum Personnel Requirement #14.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Trevor is a structural engineer and project manager responsible for leading design, analysis, inspection, plans production, and post-design efforts for new and rehabilitation of movable (bascule, vertical lift, and swing) bridges, truss bridges, steel girder (straight and curved) bridges, and pre-stressed and post tensioned beam bridges. He also leads bridge inspections on rehabilitation projects to evaluate required repairs and determine appropriate repair methods.	
01/25 - Ongoing	**District 2 Continuing Services Design for Movable and Complex Bridge Repairs, Districtwide, Florida:** Project manager. WSP is providing the Florida Department of Transportation District 2 with design services for movable and complex bridges for this five-year, $5 million task work order-based contract. Tasks include various repairs, inspections, and rehabilitation projects such as movable bridge repairs, truss bridge repairs, segmental bridge repairs, conventional bridge repairs, painting, fender replacements, pile jackets, piling replacement, cathodic protection system, saddle bent installation, bridge deck replacement, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings.
01/25 - Ongoing	**District 1 Bridge Engineering Design Continuing Services, Districtwide, Florida:** Project manager. WSP is providing the Florida Department of Transportation District 1 with bridge engineering design services for this five-year task work order-based contract. Tasks include various repairs, inspections, and rehabilitation projects such movable, post tension, and conventional bridge repairs. As well as, emergency response, engineering assessments, painting, fender replacements, pile jackets, piling replacement, cathodic protection system, bridge deck replacement, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings.
01/20 - 01/25	**2020-2025 Districtwide Minor Bridge Design, Districtwide, Florida:** Structural engineer. WSP is providing bridge engineering services for this task work order-based contract that includes various repair and rehabilitation projects. Tasks to date have included scour evaluation phase 3 and 4 POA reports on multiple bridges with pile bents and spread footing foundations, the emergency finger repair on the Buckman Bridge(I-295), The Acosta Bridge (No. 720571) and the Ramp H-1 Bridge (No. 720641)Performed field investigation using non-destructive evaluation (NDE) including post-tensioning (PT) duct inspection and SoundDAR deck assessment inspection methodologies to evaluate the condition of the PT systems. Sonovoid slab Post Tension Bridge (No. 300007, 300009, 300033, and 300910) inspection, testing, analysis and PT bar replacement, Post Tension Bridge Special Inspection documentation templates for maintenance tracking for Acosta Bridge and I-95 ramps at I-295 south interchange in Jacksonville, PT tendons assessments, field testing and pier capacity analysis on the I-95 NB Bridge (No. 740089) over St. Mary's River at the Florida Georgia state line, Mathews Bridge (No. 720076) SR 10A (I-295) over St. Johns River, performed Parallel Seismic (PS) testing to determine the existence and depth of the pier and/or H-piles at the Pier 30 (4E).

	Firm employed by: WSP USA, Inc.
11/19 - 02/24	**Interstate 95 Express Lanes Phase 3B-2, Palm Beach, Florida:** Structural engineer. WSP is responsible for this phase of the project which will widen approximately 5.8 miles of the Interstate 95 (I-95) corridor from south of Glades Road to South of Linton Boulevard. The project also includes the reconstruction of the I-95 interchange with State Road 808/Glades Road to implement a diverging diamond interchange approved as an alternative technical concept as well as improvements along Glade Road. Other project improvements include full replacement of the Clint Moore Bridge and six bridge widenings, milling, resurfacing, overbuild, and guardrail; barrier wall; attenuators; shoulder gutters; drainage; temporary and permanent retaining walls; reconstruction of impacted existing noise walls; new noise walls; sign structures; portable traffic monitoring sites; toll gantries and associated infrastructure including toll equipment buildings; intelligent transportation system; signing and pavement markings; express lane markers; lighting; signalization; ramp (metering) signals; utility relocation; and landscape relocation; and any items required to provide a complete highway system in accordance with all standard Department policies, procedures, and guidelines.
08/19 - 12/24	**I-5507, Interstate 485 (Charlotte Outer Loop) Express Lanes, Mecklenburg County, North Carolina:** Structural engineer. WSP, as the lead engineering firm, is providing design-build services for the North Carolina Department of Transportation to widen a 17.5-mile portion of Interstate 485 from Interstate 77 to U.S. Route 74 (Independence Boulevard). The project will also provide express lane direct connectors at Westinghouse and Johnston Road interchanges, a new Interstate 485 and Weddington Road interchange, and modify the Interstate 485 and East Johns Street - Old Monroe Road interchange. The firm is responsible for the design of roadways, drainage, structures, water and sewers, traffic control plans, permitting, signals, signing and pavement markings, intelligent transportation systems, and all-electronic tolling. WSP will also be responsible for providing design services during construction.
01/16 - 12/18	**FDOT D1 2016-2018 District Wide Bridge Engineering, Districtwide, Florida:** Project manager and engineer. WSP was selected for this district-wide on-call bridge engineering services contract. This task order-based contract includes work program support; structural, geotechnical, survey, corrosion, electrical and mechanical engineering design; maintenance of traffic plans; bridge inspection; design studies; load ratings; and scour analysis. Projects include precast deck replacements, steel and concrete cleaning and coating, pile jacket and cathodic protection, spall and crack repairs, and movable bridge steel repairs and mechanical/electrical upgrades.
01/13 - 12/18	**FDOT D3 2013-2018 District-Wide Bridge Repair Design, Districtwide, Florida:** Engineer. WSP provided engineering services for the design of miscellaneous minor bridge design projects for Florida Department of Transportation District Three.
01/15 - 12/19	**2015 Virginia Department of Transportation On-Call Bridge Load Rating, Virginia:** Structural engineer. WSP provided a statewide load rating of hundreds of types of bridges for this contract. Over 2,000 bridges were rated using American Association of State Highway and Transportation Officials Ware Bridge Rating, DESCUS, and LARSA software. The bridges included steel beam bridges, prestressed concrete beam bridges, concrete structures, concrete slab, and other types of bridges. The ratings were performed using the Load Rating and Resistance Factor Rating method and Load Factor Rating.

	Firm employed by: WSP USA, Inc.			
	Mark Shlyakov, PE | *Bridge Studies*		Years of relevant experience with this employer	3
			Years of relevant experience with other employer(s)	43
	Degree(s) / Years / Specialization	MEng | 1998 | Bridges and Tunnels BS | 1979 | Structural Engineering	Year registered	2014
	Active registration number / state / expiration date	38927 | LA | 09/30/2025	Discipline	Civil

MPR 14

Contract role(s) / brief description of responsibilities:
Mr. Shlyakov will provide bridge studies services. Mr. Shlyakov fulfills Minimum Personnel Requirement #15.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Mark Shlyakov is a bridge inspection and preservation manager, senior bridge engineer and project manager. He has functioned as task lead, engineer-of-record and design engineer on a variety of bridge replacement, widening, inspection, load rating and rehabilitation tasks in Alabama, North Carolina, South Carolina, Florida, Georgia, Tennessee and Virginia over a 40+ year career. He is currently task manager for post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control reviews of bridge load ratings in SC and TX (using AASHTOware) and bridge repair plans in NC.	
07/18 - 12/22	**SCDOT, Bridge Inspection and Load Rating, South Carolina:** Senior Load Rater on this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, Mark assisted with the 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. WSP efforts saved the State tens of millions of dollars.
05/17 - 03/19	**City of Oxford, Alabama, Leon Smith Parkway Bridge Widenings over Choccolocco Creek, in Calhoun County:** Engineer-of-Record for widening design of a four @ 100-foot span bridge and a five @ 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021).
01/20 - 01/25	**City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, North Carolina:** Project Manager for bridge replacement project with Categorical Exclusion (CE), surveys, hydraulic (FEMA) modeling, utility design/coordination and permitting. Engineer-of Record for design of the 100 foot, two-span precast cored slab bridge replacement. Work included checking the plans and calculations, supervising the design and providing engineering support services. (Construction 2018).
04/16 - 08/16	**CFX (FDOT) Ramp G Bridge in SR 417 Boggy Creek Interchange, Load Rating (Bridge 750804), Central Florida Expressway, Orlando, Florida:** Engineer-of-Record for structural load rating of four–span, curved, twin steel box girders spanning 201.75ft-246.92ft-201.75ft-246.92ft.

	Firm employed by: WSP USA, Inc.
11/19 - 02/24	**Florida DOT - District 4, I-595 Express Lanes (Design-Build) between I-75 and I-95, Broward County, Florida:** Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the design–build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings in BrR and construction phase engineering support services. Bridges included curved girders with integral caps.
08/19 - 12/24	**NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, North Carolina:** Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).
01/16 - 12/18	**Tennessee Steel Truss Bridge Ratings:** Engineer-of-Record for member rating analysis of three steel truss bridges in Tennessee: Old SR25/Cumberland River with 316 foot main span through truss and deck truss approaches; SR375/German Creek with 282 foot main span through-truss; and SR 67/Watauga River with 492 foot main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

	Firm employed by: WSP USA, Inc.			
	Tam Leung Kwok, PE | *Bridge Studies*		Years of relevant experience with this employer	27
			Years of relevant experience with other employer(s)	35
	Degree(s) / Years / Specialization	MS |1995| CUNY New York City College of Technology BS | 1990 | CUNY New York City College of Technology	Year registered	2024
	Active registration number / state / expiration date	49091 | LA | 09/30/2026	Discipline	Civil

MPR 14,15

Contract role(s) / brief description of responsibilities:
Mr. Kwok will provide bridge studies services. Mr. Kwok fulfills Minimum Personnel Requirement #14, 15.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Kwok a VP and Senior Supervising Structural Engineer at WSP. He specializes in long-span bridges of all types, particularly cable-stayed bridges. He has over 30 years of experience in providing structural engineering, seismic analysis, design, and inspection services for major bridges and highway structures. His project experience includes project management/coordination and engineering design of numerous structures throughout the New York metropolitan area and in Asia. He is deeply involved in all aspects of bridge design, including the development of design plans, writing special specifications, developing engineer's cost estimates, and the construction phase.	
06/16 - 07/20	**NYSDOT, Kosciuszko Bridge Replacement Phase 2 (Design-Bid-Build), Brooklyn/NY: Engineer of Record/Main Bridge Designer.** Engineer of Record for the Westbound final design of the 952 feet long single pylon main span cable-stayed bridge). The bridge was part of the 1.1-mile (1.8-kilometer) elevated highway segment of the Brooklyn-Queens Expressway (I-278) over Newtown Creek between Morgan Avenue in Brooklyn and the Long Island Expressway interchange in Queens. Kwok was responsible for the final design, load rating, and construction/erection of the WB main span.
04/14 - 06/17	**NYSDOT, Kosciuszko Bridge Replacement Phase 1 (Design-Build), Brooklyn/NY:** Main Span Task leader. Main span task leader for the Eastbound Independent Design check/review of the 1001 feet long single pylon main span cable-stayed bridge. The bridge was part of the 1.1-mile (1.8-kilometer) elevated highway segment of the Brooklyn-Queens Expressway (I-278) over Newtown Creek between Morgan Avenue in Brooklyn and the Long Island Expressway interchange in Queens. Kwok was responsible for the design & erection check/review for the EB main span.
103/23 - Ongoing	**Shoemaker Bridge, City of Long Beach/CA: Deputy Project manager and peer reviewer.** Deputy Project manager and peer reviewer for the design of a signature cable-stayed bridge over the Los Angeles River with a pylon consisting of two inclined rings with two spans totaling 1,071 ft. The review includes design drawings, design criteria, hydraulic study, and constructability.
02/21 - 08/24	**NJTA, Newark Bay – Hudson County Extension (NB-HCE), NJ:** Lead Engineer for main span conceptual study and preliminary design of two new 4-lane bridges over Newark Bay, NJ. Examined bridge types supporting roadway from below for shorter span lengths and more complex bridge types supporting deck above roadway for longer main span lengths. Preliminary design for two 1502 feet long cable-stayed bridges crossing the Newark Bay channel.

	Firm employed by: WSP USA, Inc.
07/08 - 05/12	**DelDOT, Indian River Inlet Bridge, Rehoboth Beach, Delaware:** Lead structural reviewer for design quality control (QC) of this 1,750-foot (530-meter) concrete cable-stayed bridge with center span length of 950 feet (290 meters) and 2,600-foot (790-meter) approach spans. WSP supported the design-build contractor, but had a dual reporting function to the design-builder's quality manager as well as the bridge owner, the Delaware Department of Transportation (DelDOT). To facilitate thorough design review in a fast pace design decision-making process, design QC services involved the performance of independent structural analyses to assess the design-builder's design. Kwok was responsible for design checks and reviews for the final bridge configuration.
07/21 - 02/22	**WSP India, Missing Link Bridge, India:** Peer Review Team member for an independent review of Design-Build twin cable-stayed bridges with diamond-shaped towers in a mountainous region near Pune in western India. Scope includes peer review of foundations, wind testing, tower and superstructure design.
07/21 - 05/22	**British Columbia Ministry of Transportation and Infrastructure, Alex Fraser Bridge, British Columbia, Canada:** Stay cable assessment reviewer. Evaluate the existing stayed cable conditions, provide recommendations on further cable testing, provide special provisions of the specifications for stayed cable replacement, and provide recommendations on cable replacement and construction schedules.
02/01 - 07/05	**SCDOT, Arthur Ravenel Jr. Bridge, Charleston, South Carolina:** Design and analytical engineer for the final design of the replacement Cooper River Bridge, during a design-build effort. The new bridge was the longest cable-stayed bridge in North America, with a main span of 1,546 feet (470 meters) and a cable-supported length of 3,296 feet (1,000 meters). Kwok was responsible for analysis of the main span unit for seismic and non-seismic loads and design of the main span towers and piers, including development of detailed 3D finite element models of the main span unit and the adjacent high level approach structures. Design of the main span for non-seismic loads included analysis of 115 separate loading cases (including 32 different wind load patterns and 48 ship collision load cases). Seismic design for a 2,500-year return period event included response spectrum analysis (for preliminary design), pushover analyses and full inelastic nonlinear time history analysis of the entire main span unit. A final check of the seismic performance was made using inelastic time history analysis of the main span unit and the adjacent west and east high level approach structures combined in a single model representing 1.8 miles (2.9 kilometers) of bridge.

	Firm employed by: WSP USA, Inc.			
	Ian Chaney | *Geological Investigation* MPR 19		Years of relevant experience with this employer	22
			Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization	MS |2002 | Geotechnical Engineering BS | 2001 | Mining Engineering	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Chaney will provide bridge studies services. Mr. Chaney fulfills Minimum Personnel Requirement #19.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Ian is the National Director for Geotechnical and Tunneling for WSP. He brings over 20 years of experience on multidisciplinary project management and leading geotechnical project efforts. His technical experience includes providing detailed and concept designs for marine facilities, tunnels, bridges, and buildings that consider site-specific geotechnical and environmental conditions, as well as the spectrum of multi-disciplinary concerns inherent with large infrastructure construction activities. As WSP's lead designer on the Mid-Barataria Sediment Diversion project, Ian understands the unique geotechnical conditions of Louisiana. He brings experience working with the Mott MacDonald team on the Hampton Roads Tunnel project.	
01/17 – 09/19	**LADOTD, Mid-Barataria Sediment Diversion Project, New Orleans, LA.** As part of this CMAR project to design an intake structure and 2-mile long conveyance channel from the Mississippi River, Ian is the Lead designer and WSP Project Manager providing designs for floating U-structures and immersed tube tunnels, over which a RR bridge and the LA 23 bridge will be constructed. Ian is responsible for the design of the U-structure to support both the highway bridge and the RR bridge. Conceptual plans have been developed for both standard through girder designs and for a flood-proof design that could potentially lower the profile and reduce the overall bridge length by several thousand feet. At completion, the project will accommodate a diverted flow of more than 75,000 cfs of sediment-laden water that will ultimately be deposited and dispersed into the Barataria Bay, enabling marsh creating for future decades.
09/09 – 12/17	**VDOT, Midtown/Elizabeth River Tunnel Project, Norfolk and Portsmouth, VA.** On this long-term, $2.1B Mega-Project, Ian's duties started as the geotechnical design manager and finished with being the on-site Project Manager during construction. As the on-site Design Manager During Construction, Ian was responsible for daily management of design services during construction, claim mitigation and negotiation, and financial decisions regarding design work. As geotechnical design manager for this immersed tunnel project that parallels an existing immersed tunnel, Ian was responsible for the management of all geotechnical, underground, and marine aspects of the design and the coordination of the these works between the civil, geotechnical and structural disciplines. Work consisted of dredging and foundation preparation for the immersed tubes, immersed tube design, island reclamation, buoyancy and transportation, as well as the design of the support-of-excavation system that included over 4,000 lf of in-water sheet piling, some of which utilized tiebacks and underwater struts, and that included two 50-foot-deep dewatered excavations for the tunnel approaches. The scope also required the remediation of the Portsmouth Marine Terminal, which the tunnel passes through. The port facility was returned with a 750-psf live-load allowance, with no reduction in service due to the newly constructed tunnel. to significant environmental degradation from ongoing coastal land loss, subsidence, and sea level rise.
10/07 - 05/12	**North Beach Stormwater Pump Station and Ocean Outfall, Virginia Beach, VA, Geotechnical Engineer.** WSP provided planning, design, and construction administration services for the city of Virginia Beach Department of Public Works. The project included a 96-inch diameter collection system, a 90,000-gallon per minute submersible pump station, 2,000 linear feet of large-diameter force main ocean outfall, microtunnel evaluation, Environmental Protection Agency stormwater management computer simulation model, watershed evaluation study, environmental permitting, public utility relocation, architectural design for pump station

	Firm employed by: WSP USA, Inc.
	generator building, and landscaping consistent with the oceanfront resort community Prime consultant name: WSP USA Inc. environment. The project involved phased construction, detailed cost estimates to meet budgetary constraints, and public participation with civic leagues and residents.
2019 - present	**VDOT, Hampton Roads Bridge-Tunnel Expansion, Norfolk, VA.** Engineering Manager for this $4B marine bridge and tunnel expansion project that consists of two new bored tunnels under the Hampton Roads shipping channel, artificial island expansion, access dredging, four (4) miles of new bridge trestles and four (4) miles of highway widening on land. On behalf of the owner, VDOT, Ian is responsible for all marine design and construction for this project that encompasses tunnels, island expansion, scour protection, Navy coordination and permitting. The project also includes two major excavations at the man-made islands –each over 50' deep and underwater, that are to be dewatered for launching and receiving the Tunnel Boring Machine.
01/18 – 09/19	**C540 –R2828 –Triangle Expressway, Raleigh, NC.** Geotechnical Design Manager for this design-build project consisting of approximately 9 miles of roadway on new alignment that includes 10 bridges on new alignment and 11 bridges on a turbine interchange at the existing Interstate I-40. For this project, Ian was responsible for the foundation design, the slope and retaining wall designs, the embankments, and roadways, as well as dewatering of several areas where the proposed roadway grade is below current perched groundwater in cut areas.
06/18 – 09/19	**C540 –R2828 –Triangle Expressway, Raleigh, NC.** Geotechnical Design Manager for this design-build project consisting of approximately 9 miles of roadway on new alignment that includes 10 bridges on new alignment and 11 bridges on a turbine interchange at the existing Interstate I-40. For this project, Ian was responsible for the foundation design, the slope and retaining wall designs, the embankments, and roadways, as well as dewatering of several areas where the proposed roadway grade is below current perched groundwater in cut areas I-440 Widening –Nashville Connector, Nashville, TN, Lead Geotechnical Engineer responsible for the geotechnical design of 3 bridge widenings, including two lower-level overpass bridges and one high-level bridge founded on 7-foot diameter shafts. As part of the project, Ian was also responsible for the drilled shaft inspection and remediation.
07/18 – 12/22	**Pensacola Bay Bridge Replacement Design-Build, Pensacola, FL.** Subject Matter Expert in Geotechnical Engineering responsible for the evaluation of the pile settlement characteristics driven over potentially compressible soils, and for the forensic review of the bridge foundations after barge impact and damage due to Hurricane Sally.

	Firm employed by: WSP USA, Inc.			
	Charlie Wildman | *Geological Investigation*		Years of relevant experience with this employer	5
			Years of relevant experience with other employer(s)	8
	Degree(s) / Years / Specialization	MS |2016 | Civil/Geotechnical Engineering BS | 2009 | Geologocal Engineering	Year registered	2018
	Active registration number / state / expiration date	42928 | LA | 03/31/2027	Discipline	Civil

MPR 19

Contract role(s) / brief description of responsibilities:
Mr. Wildman will provide geological investigation services. Mr. Wildman fulfills Minimum Personnel Requirement #19.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Mr. Wildman is a geological and geotechnical engineer and currently serves as a Lead Consultant in these disciplines. His professional experience includes extensive work in dams, levees, coastal and riverine protection, transportation, water conveyance and distribution, green infrastructure, wind energy, industrial design, military construction, and agriculture. Mr. Wildman's early career was predominantly spent in the field completing geological and geotechnical site characterization including rock and soil logging, completing field testing, installing geotechnical instruments, and coordinating and managing drilling and construction subcontractors. Over the past nine years, Mr. Wildman has specialized in the design, construction, and rehabilitation of hydraulic structures, including dams, levees, floodwalls, floodgates, pump stations and similar large-scale water conveyance or retention structures. He is a technical lead for geological and geotechnical engineering practice including geotechnical drilling programs and geotechnical design. Mr. Wildman is a thought leader in infrastructure resilience. In 2020 while serving on ASCE's national Science, Policy, Education, and Economics Decision (SPEED) committee within the Infrastructure Resilience Division, Mr. Wildman authored a chapter entitled "Administrative or Construction Solutions: Finding the Right Resources" in the American Bar Association's The Community Resilience Handbook. In 2021, he was awarded the prestigious Douglas R. Piteau Award for outstanding younger member at the international level by the Association of Environmental and Engineering Geologists (AEG). He is a professional geologist licensed in New York and a professional engineer licensed in Louisiana.
01/17 – 09/19	**Nimmo Parkway Phase VII-B, Virginia Department of Transportation, Virginia Beach, Virginia:** The Virginia Department of Transportation contracted WSP to serve as engineering advisor during the feasibility study for developing a new alignment for Nimmo Parkway. Mr. Wildman served as part of the advisory team and provided observations and recommendations specific to ground and surface water impacts and implications as a result of the proposed project.
10/07 - 05/12	**I-94 Modernization Project – Stormwater Drainage Tunnel, Michigan Department of Transportation, Detroit, Michigan:** The Michigan Department of Transportation (MDOT) is planning to widen Interstate 94 (I-94) in northeast Detroit between Cadillac Avenue and Barret Avenue. As part of the planned widening project, the existing I-94 stormwater drainage system between Cadillac Avenue and Barret Avenue is planned to be demolished to facilitate highway widening. Accordingly, this portion of I-94 will require a new stormwater drainage system. MDOT contracted WSP to provide preliminary engineering evaluations for the approximately 5700-feet long, 14.5-ft diameter stormwater drainage tunnel as well as shafts and ancillary water conveyance facilities. Mr. Wildman assisted in the development of the Geotechnical Baseline Report. His work included comprehensive review of report text, appendices, and recommendations.

	Firm employed by: WSP USA, Inc.
08/24-present	**Houma Tunnel Rehabilitation, Louisiana Department of Transportation and Development, Houma, Louisiana:** The Louisiana Department of Transportation and Development contracted WSP as part of a joint venture team to provide architectural and site civil upgrades to the vehicular tunnel under the Intracoastal Waterway in Houma, Louisiana. Mr. Wildman served as WSP's project manager for this task and coordinated project plans, budgets, scope, invoices, and work tasks for both the architectural and civil disciplines.
01/25-present	**Tampa Westshore Interchange, Florida Department of Transportation, Tampa, Florida:** This project will fully reconstruct Tampa's Westshore Interchange (I-275/SR 60) with a modern design and added capacity with general use and express lanes. The updated design includes 41 bridges and flyover ramps providing better traffic operations including the replacement of the existing loop ramp from eastbound SR 60 to northbound I-275. Mr. Wildman worked with the geotechnical engineering team to prepare and review drilled shaft axial capacity calculations and accompanying bridge design reports.
04/25-present	**Wallops Island Causeway Replacement, Federal Highway Administration Eastern Federal Lands, Wallops Island, Virginia:** The Federal Highway Administration contracted WSP as part of a joint venture design-build team to replace the causeway to Wallops Island on the Delmarva peninsula. Mr. Wildman worked with the geotechnical engineering design team to assist in writing reports, developing design stratigraphy, defining engineering properties of soils within the project limits, and as a quality control reviewer.
01/13-08/21	**DFW Connector, Texas Department of Transportation, Grapevine, Texas:** WSP provided design services for the DFW Connector Highway Expansion at the the northeast corner of the Dallas Fort Worth International Airport. This project was simultaneously designed and built along 8.4 miles of SH 114 and SH 121 in Grapevine, Southlake and Irving, Texas. It doubled the size of the existing highway system, up to 24 lanes at its maximum width, around the north entrance of DFW International Airport. The project featured a combination of new mainlanes, frontage road lanes and TEXpress Lanes as well as bridges and retaining walls. Mr. Wildman assisted in the geotechnical design as he maintained an archive and completion database of over 200 geotechnical borings completed for the project. He provided geotechnical borehole logging and inspection for borings ranging from 10 to 140 feet depth, logging both soil and rock. He also maintained an archive and completion database of geotechnical laboratory test assignments and results including quality control review of laboratory results. Mr. Wildman provided quality control review and standardization of exploratory geotechnical borehole logging. He coordinated driller and drill rig availability with drilling contractors; coordinated with geotechnical laboratories and assigned and received geotechnical laboratory tests and results. He input field boring logs into a gINT database and developed geologic cross sections for slope stability models and provided quality control review of geotechnical design packages for retaining wall, bridge abutment, pavement section, and on/offramp submittals.

SECTION 16 | STAFF EXPERIENCE

Ardaman & Associates, Inc.

Resumes included in the following order:

Mark Woodward, PE | MPR #18
Megan Bourgeois, PE | MPR #16,17
Harold Kenneth Wilson, PE
Robert Jewell, PE
Ross McGillivray, PE
John Garlanger, Ph.D., PE
Evelio Horta, PH.D., PE, GE
Jessica N. Litt
Donald Anthony

Bookmarks added to pdf for ease of review.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Mark Woodward, PE** | *Geotechnical Engineer*		Years of relevant experience with this employer	7
			Years of relevant experience with other employer(s)	36
	Degree(s) / Years / Specialization	BS / 1982 / Civil Engineering MS / 1986 / Civil Engineering MS / 2019 / Risk Management	Year registered	LA 1991, MS. 2019
	Active registration number / state / expiration date	29797/ MS / 12-31-25 (Meets MPR 18) PE.0024206/ LA / 09-30-25	Discipline	Civil

MPR 18

Contract role(s) / brief description of responsibilities: Geotechnical Engineer

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Mr. Woodward 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.
05/83-01/15	**MISSISSIPPI RIVER AND TRIBUTARIES PROJECT – GEOTECHNICAL INVESTIGATION, DESIGN AND CONSTRUCTION OVERSIGHT, LA:** Senior Geotechnical Engineer. Mr. Woodward conducted or oversaw the review of existing geotechnical data and implementation of field investigation to obtain subsurface data, selection and reduction of laboratory testing, geotechnical engineering analyses, development of conclusions and recommendations, final report preparation and construction oversight for over 50 levee and floodwall projects on the Mississippi River and Atchafalaya Basin. Responsible for providing final geotechnical approval of 1000 permits a year for construction activities on and around levees.
01/06-12/06	**DAM AND LEVEE SAFETY PROGRAM, USACE NEW ORLEANS DISTRICT, LA:** Dam and Levee Safety Program Manager. Mr. Woodward served as the USACE New Orleans District Levee Safety Program Manager for over four years, responsible for Levee Evaluation Reports for Levee Certifications and the National Flood Insurance Program, Levee Inspection Reports on over 1300 miles of levee on an annual basis, Risk Assessments and Communication for all levees in the District's jurisdiction. Responsible for final Section 408 permitting approval to ensure that construction activities do not increase risk or diminish function of levees and do not cause harm to the public.
11/18-12/21	**SP NO H.003370/ I-12/I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIRFORCE BASE ACCESS ROAD, Bossier Parish, LA:** QA Engineer. 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. Mr. Woodward provided quality assurance for this project, reviewing all work product in design and construction phase.
01/21-12/22	**VICKSBURG SUBSTATION EXPANSION, FREETOWN ROAD, Vicksburg, MS:** Principal Engineer. Provided oversight and review of recommendations for both deep and shallow foundations for support of the proposed substation structure loads and site preparation.

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
06/98-07/98	**SEVEN OAK DAM: San Bernardino, CA:** Embankment Engineer. Mr. Woodward served as the embankment engineer for the 600-foot-high earth fill Seven Oaks Dam during construction. This dam was for flood control, with no constant pool against it. It was a zoned dam with a clay core and varying rock gradations towards the upstream and downstream sides. Performed many large diameter sand cones on the rock fill. Looked for cracks at edges of the dam against the canyon wall so shotcrete could be applied, ensured that the clay core was not contaminated by equipment traffic, ensure proper gradation and compaction, monitored outlet works, spillway and tunnel construction. Monitored blasting and clay delivery system.
01/19-12/23	**CHENIERE SPILLWAY & BRIDGE REPLACEMENT, Ouachita Parish, LA:** Senior Geotechnical Engineer. Mr. Woodward served as the Senior Geotechnical Engineer for this project which includes the replacement of the current damaged spillway and bridge. structure in Ouachita Parish, Louisiana.
04/21-01/25	**SP NO. H.013987 / RURAL BRIDGES PHASE I, Claiborne Parish, LA:** Senior Geotechnical Engineer. The Rural Bridges project initiative is to replace many older bridges throughout the State of Louisiana. The geotechnical design includes geotechnical exploration, analyses, and foundation recommendations for 3 bridges (recall numbers 016831, 016842, and 016850).
01/06-05/06	**HOMEPLACE LEVEE WITH GROUND IMPROVEMENT, P24, Plaquemines Parish, LA:** Lead Geotechnical Engineer. In the aftermath of Hurricane Katrina, Mr. Woodward was assigned to USACE Task Force Guardian as Geotechnical Engineer for Plaquemines Parish to restore levee damage to pre-Katrina conditions. The Homeplace Floodwall had translated due to loading and had to be removed. In order to replace the risk reduction system with an earthen levee, the foundation had to be improved. Using knowledge gained from full scale test section Mr. Woodward had coordinated pre-Katrina for Deep Mixing, Mr. Woodward designed ground improvement and reviewed/ approved all construction submittals and oversaw construction.
11/23-05/24	**PROJECT MAGNOLIA, GEORGIA-PACIFIC, Monticello, Lawrence County, MS:** Principal Engineer, Provided oversight and review of recommendations for site preparation, foundation support of the proposed structures, and pavement design for plant expansion.
01/14-12/16	**FORT ADAMS REVETMENT, MRL 306.6 to 311.0-L, Wilkinson County, MS:** Deputy Branch Chief, Geotechnical Branch, New Orleans District, US Army Corps of Engineers (USACE), in responsible charge of oversight and review of global stability analysis of the left descending bank of the Mississippi River in the state of Mississippi directly across from the USACE Old River Control Complex.
03/16-05/18	**PALMETTO REVETMENT, MRL 319.2 to 325.9-L, Wilkinson and Adams Counties, MS:** Deputy Branch Chief, Geotechnical Branch, New Orleans District, US Army Corps of Engineers (USACE), in responsible charge of oversight and review of global stability analysis of the left descending bank of the Mississippi River in the state of Mississippi between river miles 319.2 and 325.9-L
05/18-08/19	**SP NO. H.011152.5/ I-12 WIDENING (US 190 to LA 59): St. Tammany Parish, LA:** Principal Engineer. Mr. Woodward provided technical oversight for this project which included the widening of Interstate 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. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Mr. Woodward is providing oversight for an effort to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments.
12/21-2/24	**PINE TREE SUBSTATION: Hernando, MS:** Principal Engineer. Mr. Woodward served as Principal Engineer for the project consisting of foundation recommendations, site grading, stability and settlement.
12/24-Ongoing	**ENTERGY, TRANSMISSION LINE REPLACEMENT, Natchez, MS & Vidalia, LA:** Principal Engineer. The project consists of replacing the transmission power line crossing the Mississippi River between Vidalia, LA and Natchez, MS... The proposed construction will include critical crane lift locations, equipment staging areas, construction equipment transport routes, and levee crossings on both sides of the Mississippi River.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Megan Bourgeois, PE** | *Geotechnical Engineer*		Years of relevant experience with this employer	18
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering (Meets MPR 16 & 17) Traffic Control Supervisor / LA / 6-21-2028, DOTD Flagger / LA / 8-14-2028 Certified NHI Drilled Shaft Inspector	Year registered	LA 1991, MS. 2019
	Active registration number / state / expiration date	0036725 / LA / 03-31-2026	Discipline	Civil

MPR 16,17

Contract role(s) / brief description of responsibilities: Geotechnical Engineer

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	Ms. Bourgeois has more than 18 years of experience with countless types of foundation design including shallow foundations, embankment settlement analysis, pile and drilled shaft foundation analysis, LRFD design, slope stability (embankment and excavation) and pump stations. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has managed numerous geotechnical investigations and design evaluations, managed laboratory testing programs, while also serving as Ardaman's program manager for many LADOTD projects for bridges and roadways throughout Louisiana. Ms. Bourgeois also serves as the director of our geotechnical engineering laboratory in Baton Rouge. In this role, she supervises the laboratory manager, 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.
10/09 - Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW, Vicksburg, MS:** Project Manager. Ms. Bourgeois manages this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. 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, Ms. Bourgeois 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.
10/18- 06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH, Orleans Parish, LA:** Project Manager. Managed and oversaw all aspects of an extensive field investigation program which included 37 deep soil borings, including borings to depths of over 200 feet in over 80 feet of high flow water. Ms. Bourgeois also managed a laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, oversaw the field resistivity (geophysical survey) testing program, and developed the data report.
04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II:** West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Engineer. 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.

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA:** Project Engineer. Leads technical reviews 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.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA:** Project Manager. 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. Ms. Bourgeois also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She 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 various other interchanges.
2014-2015	**IATT AND NANTACHIE LAKE DAMS EVALUATION & REMEDIATION-LDOTD SP H.010600.5: Grant Parish, LA:** Project Manager. Served as project manager for the project that included a geotechnical engineering evaluation of the earthen dams for two lakes in Grant Parish for slope stability issues. Study included initial site reconnaissance, review of available design, construction, inspection and repair documents, collection of additional field and laboratory data and engineering analyses to develop recommendations for repairs and long-term geotechnical performance monitoring.
05/06-12/11	**SP NO. 700-29-0112 & 700-29-0130 / LA 1 – PHASES 1 & 2: Lafourche Parish, LA:** Assistant Project Engineer. This project is the second phase of the 17-mile elevated highway spanning from Golden Meadow to Fourchon. Ms. Bourgeois directed the laboratory testing program to ensure strict adherence to LADOTD standards and managed the drilling operations which included deep borings and CPT soundings in the coastal marshes via airboat-mounted equipment. She oversaw the completion of over 70 soil boring logs and evaluated and presented approximately 300 CPT sounding logs for use in design of pile foundations.
01/23-Ongoing	**MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR:** Project Engineer. The project consisted 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. 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.
02/20-Ongoing	**SP NO. H004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL, Plaquemine Parish, LA:** Project Engineer/Laboratory Director. Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's. 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 served as quality control and review of all acceptance verification sampling and testing during construction.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Harold Kenneth Wilson, PE** | *Geotechnical Investigation*		Years of relevant experience with this employer	3
			Years of relevant experience with other employer(s)	35
	Degree(s) / Years / Specialization	BS/1983/Geology (Meets MPR 19) BS/1987/Civil Engineering MS/1993/Geotechnical and Environmental Engineering	Year registered	2010
	Active registration number / state / expiration date	PE 35355/LA/09-30-2026; PG 1032/LA/03-08-2026	Discipline	Civil
Contract role(s) / brief description of responsibilities: Geotechnical Investigation				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).			
Mr. Wilson is a principal engineer for the Baton Rouge office providing project management and technical solutions for geotechnical and environmental projects mostly in the State of Louisiana. His specialties include soil mechanics of marine and alluvial deposits, industrial solid waste design and construction elements, roadway improvements, levee/impoundment design, and hydrogeological evaluations. Mr. Wilson is also adept at cost engineering, preparing specifications and bid documents, and managing construction quality assurance programs.				
12/12-Ongoing	**SP No. H.009260 / I-10 HWY 73 TO HWY 30 WIDENING: Ascension Parish, LA:** Project Engineer. Performed engineering analysis including settlement, pavement and base thickness recommendations and deep foundation recommendations for overpasses and bridges. The project consists of widening the existing interstate including overpasses and bridges along the alignment			
05/22 - Ongoing	**MOSAIC FERTILIZER, LLC, UNCLE SAM PLANT, STACK NOS. 4 SIDE SLOPE CLOSURE, St. James, LA:** Project Engineer. Assisted with design and specifications for the closure of Stack No. 4 gypsum side slopes. He is currently managing and overseeing the construction quality control inspection and testing during the closure including oversight of technicians providing construction inspection and testing for gypsum grading and compaction, clay barrier placement and compaction, HDPE liner installation, placement and compaction of soil cover atop HDPE liners, seepage collection drain installation and construction of surface water conveyance and control devices.			
08/24 - Ongoing	**MOSAIC FERTILIZER, LLC, UNCLE SAM PLANT, STACK NOS. 1-5 DESIGN, St. James, LA:** Principal Engineer. Assisted with design and specifications for the gypsum stack growth and expansions of Stack Nos. 1-5. This included review of existing geological data, survey information, and soil boring data.			
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR), Baton Rouge Parish, LA:** Project Engineer. Assisted in various 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.			
04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA:** Project Engineer. Oversaw 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 multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks.			

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
07/15-Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE), Lafayette Parish, LA:** Project Engineer. Reviewed the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings. The design was for the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. He is overseeing the Geotechnical Investigation and Design Report to be developed for this project. In addition, he will also oversee and coordinate the Phase 2 field and laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings.
01/23-Ongoing	**MRB SOUTH GBRL, LA 1 TO LA 30 CONNECTOR:** SProject Engineer. The project consisted 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. 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.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Robert Jewell, PE** | *Geotechnical Engineer*		Years of relevant experience with this employer	17
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering	Year registered	2013
	Active registration number / state / expiration date	38579 / LA / 09-30-2026 Traffic Control Supervisor / LA / 08-23-2028	Discipline	Civil
Contract role(s) / brief description of responsibilities: Geotechnical Engineer				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).			
Mr. Jewell serves as the manager of our Baton Rouge office and as project manager for various geotechnical engineering projects which include analyses such as pile and drilled shaft foundations, shallow foundations, static and dynamic pile testing, and slope stability. 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. Mr. Jewell 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.				
10/09 - Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW, Vicksburg, MS:** Project Engineer. Mr. Jewell 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, MS. 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.				
10/18- 06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH, Orleans Parish, LA:** Project Engineer. Helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Mr. Jewell also helped develop the soil boring logs and preparation of the data report.			
10/18-01/19	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD, Bossier Parish, LA:** Project Manager. 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 (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring.			
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST) East Baton Rouge Parish, LA:** Project Engineer. Comanaged all aspects of the geotechnical investigation in support of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation will include 58 deep borings and 11 cone penetrometer (CPT) soundings, field resistivity testing, and associated laboratory testing and the preparation of a geotechnical data report.			
09/20-Ongoing	**SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12, Baton Rouge Parish, LA:** Project Engineer. Helped oversee review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's.			

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR), Baton Rouge Parish, LA:** Project Manager. 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.
04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA:** Project Manager. 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 multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE, Calcasieu Parish, LA:** Project Engineer. Lead 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. Mr. Jewell 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.
07/15-Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE), Lafayette Parish, LA:** Project Manager. Manages the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings. The design was for the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. He will be the co-principal for developing the Geotechnical Investigation and Design Report to be developed for this project. In addition, he will also oversee and coordinate the Phase 2 field and laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings.
04/14-05/23	**SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241 (LA 36-LA435), St. Tammany Parish, LA:** Project Manager. 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. Assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Mr. Jewell oversaw the construction phase which included dynamic testing and settlement monitoring.
01/23-Ongoing	**MRB SOUTH GBRL, LA 1 TO LA 30 CONNECTOR:** Project Engineer. The project consisted 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. 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.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Ross McGillivray, PE** | *Geotechnical Engineer*		Years of relevant experience with this employer	28
			Years of relevant experience with other employer(s)	29
	Degree(s) / Years / Specialization	BCE / 1966 / Civil Engineering MS / 1968 / Civil Engineering (Soil Mechanics)	Year registered	1998
	Active registration number / state / expiration date	17920 / FL / 02-28-2027	Discipline	Civil
Contract role(s) / brief description of responsibilities: Geotechnical Engineer				

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
As a principal engineer working from the Tampa office of Ardaman, Mr. McGillivray provides technical review and consultation on projects involving building and bridge foundations, geotechnical and materials engineering for port facilities, pavement systems, earth structures, surface mining, ground water hydrology and sinkhole evaluation and remediation. He has provided engineering review or design on projects with Ardaman offices in Florida as well as for offices in Baton Rouge and New Orleans, Louisiana. Mr. McGillivray managed the operations of the soil mechanics laboratory as a Research Engineer at MIT from 1968 to 1970, and conducted research into the behavior of soil and soil-like industrial waste products while at MIT, He worked as a staff engineer on projects in North Carolina, Florida, Alaska and Venezuela for Lambe & Associates, Inc. of Cambridge, Massachusetts, including the evaluation of soil stability and anchor capacity for a large retaining wall for the Parque Central' project in Caracas, Venezuela and the development of a permafrost and soil mechanics laboratory in Anchorage, Alaska. He founded ARMAC Engineers, Inc. in 1975, working on building foundations, sinkhole evaluation and remediation, mine slope stability and earthen dam projects. He joined Ardaman & Associates, Inc. in 1996 as a Senior Engineer, working on mining, building foundation and bridge foundation projects.	
09/01 – 11/01	**I-10/12 SOUND WALLS, WALL 6-DESIGN LATERAL LOAD TEST ON DRILLED SHAFTS / SOUND WALL SHAFT CLS EVALUATION, Baton Rouge, LA:** Principal Engineer. Mr. McGillivray performed a re-design for the drilled shafts supporting the I-10/I-12 sound wall system in Baton Rouge, LA, and performed an instrumented lateral load performance on a 48-inch diameter drilled shaft. The results of the load test compared analyses performed with Standard Penetration Test Boring Data to analyses performed with Cone Penetrometer Test (CPT) sounding data. Mr. McGillivray also evaluated the results of Cross-Hole Sonic Log (CSL) tests on installed drilled shafts and developed repair procedures when drilled shafts were shown to have CSL detected flaws. The repair procedures were accepted by LADOTD for the project.
7/15 –Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE) Lafayette Parish, LA:** Principal Engineer. Mr. McGillivray helped review all of the geotechnical design including deep foundations, lateral load analyses, earth retaining structures in support of the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. Mr. McGillivray will help with review and preparation of the P:1 preliminary Geotechnical Design Report.
01/23-Ongoing	**MRB SOUTH GBRL, LA 1 TO LA 30 CONNECTOR:** Principal Engineer. The project consisted 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. 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.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**John Garlanger, Ph.D., PE** | *Geotechnical Engineer*		Years of relevant experience with this employer	52
			Years of relevant experience with other employer(s)	8
	Degree(s) / Years / Specialization	Ph.D., Geotechnical Engineer, University of Illinois (1970) MSCE, University of Illinois (1967) BSCE, University of Illinois (1966)	Year registered	1974
	Active registration number / state / expiration date	19782 / FL / 1974 9046 / NC /. 1979 4786 / WY / 1984	Discipline	Civil
Contract role(s) / brief description of responsibilities: Geotechnical Engineer				

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2014 and 2020	**NEW SAVANNAH BLUFF LOCK AND DAM FISH PASSAGE AND MCCOY'S CUT DIVERSION STRUCTURE, USACE SAVANNAH DISTRICT (Various Locations, SC, and GA.)** Senior Consultant. Oversaw subsurface exploration and laboratory testing for a fish passage to be constructed at the New Savannah Bluff Lock and Dam to allow the Shortnosed Sturgeon, Atlantic Sturgeon, Shad and Robust Redhorse to bypass the dam and have access to the shoals that are upstream of the dam. Also oversaw subsurface exploration and laboratory testing for a haul road needed to provide access to the site. Supervised stability analyses of the fish passage coupled with the addition of continuous flight auger (CFA) piles to increase stability. As a mitigation feature to the proposed deepening of Savannah Harbor, a diversion structure is proposed to be constructed at McCoy's Cut to increase the freshwater flow into the Back River. Sheet pile wall analyses were performed for the diversion structure as well as the erosion protection structures for the riverbanks. Seismicity was evaluated during the design. Oversaw a study for proposed realignment of the fish passage in 2020.
2021	**BRUNSWICK HARBOR MODIFICATION PROJECT, Georgia, USACE Savannah District:** Senior Consultant. Oversaw the geotechnical exploration portion of this significant dredging project. The purpose of the exploration was to identify the nature of the soils dredged and identify materials that could present dredging challenges. Oversaw an exploration that included 24 SPT soil borings, most over water, and rock coring. Ardaman also oversaw a testing program that included sieve analysis, Atterberg limits, specific gravity, and sedimentation rate tests on disturbed samples from the borings. Authored an exploration report that identified the dredge materials' nature and identified areas where resistant materials were likely present.
2010	**ATLANTIC INTERCOASTALS WATERWAY, NORTH DISPOSAL AREAS, USACE (Carteret, Pamlico, and Hyde Counties, NC):** QSenior Consultant. Responsible for the field exploration, laboratory testing, and engineering evaluation and design for the raising of our dredge disposal areas in three counties. Disposal areas for dredged material were needed to be raised or repaired. Subsurface investigations were required for the purpose of characterizing the types of soils and the rocks at existing disposal areas. The study included the following: a) a review of existing information; b) planning and execution of a subsurface investigation using an all-terrain vehicle to perform 38 standard penetration borings (as deep as 60 ft), conducting field permeability tests and abandoning piezometers; c) laboratory analysis of samples, including tests for soil classification, permeability and strength/compressibility determination; d) embankments design including modeling of seepage and slope stability on various design cross sections; e) a basic design report summarizing and analyzing results and recommending alternative designs.
2010	**ATLANTIC INTERCOASTALS WATERWAY, DREDGING AND THE NEW RIVER CHANNEL TO JACKSONVILLE DREDGING SOIL TESTING AND DREDGE MATERIAL AND DISPOSAL RECOMMENDATION AND GEOTECHNICAL SUPPORT, USACE:** PSenior Consultant. Took samples and provided laboratory testing and analysis which classified material. Recommendations for disposal site were supplied for whether it was suitable for beach disposal or requiring upland disposal areas. Prepared borehole logs and summary reports. Ardaman also conducted slope stability analyses of the dredge disposal cell dikes.

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2014	**PORT CANAVERAL INNER REACH WIDENING AND ASSOCIATED PROJECTS, CANAVERAL PORT AUTHORITY:** ESenior Consultant. Responsible for subsurface investigation and geotechnical engineering evaluation for seven selected projects associated with the Inner Reach Widening project, which, in addition to widening the inner reach, included a proposed sheet pile wall, proposed outbound structures, proposed West Basin Cut A widening, proposed Middle Reach Widening, proposed Segmented Circle widening, and proposed inbound range structures. The field exploration included borings conducted on land and from a floating barge along with piezo-cone soundings. The dredge spoil material was evaluated, as was the disposal area which is underlain by soft clay deposits. An extensive laboratory testing program included classification testing, strength testing (triaxial compression and direct shear), and compressibility (consolidation) testing. The analysis included evaluation of the foundation soils for the structures and sheet pile wall and recommendations for design of deep foundations and the sheet pile wall. Ardaman Fees: $390,000.
2016	**DEEPENING AND WIDENING MAIN CHANNEL, CANAVERAL PORT AUTHORITY, FL:** Senior Consultant. The project includes deepening the existing channel into El. -55 feet (MLLW), or possibly deeper, and extending the channel by about 5 nautical miles, while widening the channel to maintain the same channel bottom at the deeper elevation. Ardaman completed a subsurface exploration for Phase 1 of the project which includes four study areas. The field exploration included soil borings which were conducted both on land and over water from a barge platform. The scope also included conducting an extensive laboratory testing program which required strength testing of the soil (triaxial and direct shear tests). The engineering analysis evaluated the stability of the channel slopes and the potential effects to stability resulting from the channel dredging.
2007	**PORT CANAVERAL NAVIGATION IMPROVEMENTS SECTION 203 WRDA 1986 ENGINEERING INVESTIGATIONS, CANAVERAL PORT AUTHORITY, FL:** SSenior Consultant. The focus of the study was to investigate the feasibility of widening the channel, expanding the entrance to the West Turning Basin (WTB), establishing a new turning circle within the WTB, and deepening the West Access Channel and WTB. As part of the Section 203 Feasibility Report, a geotechnical engineering appendix was prepared. The appendix detailed the results of the onshore and offshore field investigations, laboratory testing, and engineering evaluation needed to support the formulation of alternative plans and to support the selected plan. The geotechnical engineering evaluation included classifying the dredged soils, studying the impact of the navigation improvements on the existing wharves, bulkhead walls, rip-rap embankments, and spoil containment dikes. Solutions to the impact on the waterfront structures, ranging from strengthening to replacement, for each alternative plan were provided.
2010	**USACE-WILMINGTON DISTRICT, NC – DREDGE DISPOSAL AREA REVETMENT REPAIR, SAVANNAH RIVER (Savannah GA):** Senior Consultant. Geotechnical engineering evaluation for this project. Ardaman's involvement included Cone Penetrometer soundings, landside and marine side Standard Penetration borings, and a suite of laboratory tests. Ardaman also conducted slope stability analyses.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Evelio Horta, PH.D., PE, GE** | *Geotechnical Engineer*		Years of relevant experience with this employer	33
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	Ph.D. / 1979 / Technical Sciences in Soil Mechanics MS / 1976 / Soil Mechanics BCE / 1969 / Civil Engineering	Year registered	1993
	Active registration number / state / expiration date	46625 / FL / 02-28-2027; 2976 / CA / 06-30-2025; 77531 / CA / 06-30-2025	Discipline	Civil

Contract role(s) / brief description of responsibilities: Geotechnical Engineer

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
	DR. HORTA has over 50 years of varied experience in the field of geotechnical engineering. Mr. Horta supervises geotechnical investigations and prepares recommendations for a wide variety of projects, including low to high-rise structures, highways and bridges, embankments, dams, and public work projects. He also supervises construction monitoring and testing on similar projects. He also manages and supervises engineering services on environmental projects, including Phase I and Phase II assessments, contamination assessments, and remediation. Dr. Horta has specific experience employing 3-D finite element analysis for geotechnical engineering evaluation. He has provided such analyses using Plaxis software for numerous challenging projects. The US Army Corps of Engineers has invited him to help train USACE engineers in the use of Plaxis. Publications: Horta, E., and Diner, R., "Jet Grouting as Soil Improvement in Southeast Florida". DFI Proceedings of the 32nd Annual Conference on Deep Foundations, 2007, Colorado Springs, CO. Horta, E., and McGillivray R., "Comparison of Predicted and Actual Loads on Piles using a Combined Analysis Model". ASCE Geo-Congress 2012. March 2012 Oakland, California. Horta, E., "Observed and Predicted Forces on Auger Cast Piles." ASCE Geo-Congress, 2020, Minneapolis, Minnesota. Horta, E., and Iglesias, P.J., Geotechnical and Structural Design of Piles Under Highrise Buildings." ASCE Geo Congress, 2022. Charlotte, NC. Horta, E., "Friction Piles Ultimate Capacity Using the Allowable Deformation Criteria". ASCE Geo-Congress, 2025. Louisville, Kentucky.
10/09 - Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW, Vicksburg, MS:** Principal Engineer. The I-20 Bridge has been suffering displacements along the bridge alignment related to foundation movements on the river's Mississippi side. Dr. Horta has served as Senior Geotechnical Engineer in charge of the numerical modeling of the river bluff and bridge foundations included within the 1200 x 1300 feet area. The analysis has been performed using two and three-dimensional numerical methods to provide repair recommendations that have been successfully implemented.
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST), East Baton Rouge Parish, LA:** Principal Engineer. Dr. Horta developed numerical models for the proposed single shaft foundation, which would support bridge expansions at critical locations. The analysis was completed to assess the impact of the new construction on the existing pile foundations.
10/18 – 01/19	**IHNC – LAKE BORGNE BARRIER GIWW TO MRGO, St. Bernard Parish, LA:** Principal Engineer. Dr. Horta was Senior Project Engineer for this project. Ardaman provided geotechnical analyses for Bayou Bienvenue Sector Gate, Advanced Measures at Bayou Bienvenue, and tie-in T-Walls at the GIWW and MRGO levees. The project included geotechnical analyses with regard to global stability, pile capacities, settlements, seepage, temporary retaining structures, etc. for the structures associated with this barrier. Specialized analyses include Plaxis, Slope W and UTexas4.
06/00-06/10	**SR 826 IMPROVEMENT PROGRAM; SR 826/836 INTERCHANGE – FDOT, District 6, Miami, FL:** PPrincipal Engineer. Dr. Horta served as Senior Geotechnical Engineer for this interchange which includes 50 bridges on variable soil conditions. The bridges will be supported on drilled shafts and driven piles. The soil investigation included about 230 borings extended to depths of 125 feet below grade.

	Firm employed by: Ardaman and Associates, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
01/19-Ongoing	**UNCLE SAM STACK NUMBER 4 NORTH SLOPE, St James Parish, LA:** Principal Engineer. Dr. Horta developed the numerical model for the gypsum stack cell number 4 to assess the displacements that occurred during the stack construction, the stress-strain and excess pore pressure conditions of the stack and foundation soils at the time of the analysis. The model results allowed for an alternative assessment of the factor of safety under different water elevation conditions, and after the proposed repairs/improvements of the stack.
05/16-05/19	**100 LAS OLAS, Fort Lauderdale, FL:** Principal Engineer. Dr. Horta served as Senior Geotechnical Engineer for the design and construction of the 48-story building that is currently the highest structure in Fort Lauderdale. The soil investigation included soil borings up to 150 feet below grade. A numerical model for the foundation system was developed to assess the building's settlement. The pile foundation solution for the building included the use of existing piles from a previous project on the site and the assessment of the construction on the potential settlement of neighboring structures. He instrumented two production piles to confirm predicted design forces. After two years of observations during construction, the instrumentation data confirmed the predicted settlements of about 0.6 inches under the tower.
08/19-10/23	**THE DISTRICT, NORTH MIAMI AVENUE, Miami, FL:** Principal Engineer. The project is a 39-story residential tower with an attached parking structure. Dr. Horta, as Principal Engineer, supervised the geotechnical investigation that included soil borings to depths from 80 to 150 feet, performed laboratory testing, and provided pile foundation recommendations for the structure. He also completed a "foundation on piles" analysis in a value engineering effort to reduce the number of required piles that result from conventional structural analysis. A numerical model for the foundation system was developed to assess the building's settlement. After completion, the building's total settlement was 0.35 inches.
2012	**LAKE GREGORY DAM, SEISMIC ANALYSIS, San Bernardino County, CA:** Principal Engineer. Lake Gregory Dam was built between 1936 and 1938, and an analysis to upgrade the safety of the Dam to current regulations was performed by Dr. Horta as Senior Geotechnical Engineer. A cross-section of the Dam was modeled using the Plaxis 2D Computer Program using soil properties from the geotechnical investigation completed in 2011. A dynamic analysis of the dam using the acceleration vs. time input from the design earthquake was completed for the existing dam cross section. The same analysis was completed for the proposed cross-section to evaluate the effectiveness of the different repair measures.
07/04-Ongoing	**SOUTH TERMINAL EXPANSION PROGRAM, MIAMI INTERNATIONAL AIRPORT, Miami, FL:** Principal Engineer. Dr. Horta served as Senior Geotechnical Engineer for this project which included the design and construction of the new terminal the new Concourse J and remodeling of Concourse H. Ardaman performed all soil testing and foundation inspection and testing for the new terminal (J) and remodeled terminal (H).
09/19-Ongoing	**CARNIVAL CRUISE LINES PORT IN GRAND BAHAMAS, The Bahamas:** Principal Engineer. Dr. Horta, as the Senior Geotechnical engineer for the project, directed the soil investigation for the new pier that required performing borings to 125 feet below sea level. Also, soil borings were completed for the landside development that includes multiple structures. The geotechnical report included recommendations for drilled shaft capacity and construction as well as the landside recommendations for foundation support and site development.

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Jessica N. Litt** | *Geotechnical*		Years of relevant experience with this employer	12
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	BS / 2010 / Biology	Year registered	N/A
	Active registration number / state / expiration date	NICET / Generalist, Laboratory No. 141243 / 10-01-2027	Discipline	N/A
Contract role(s) / brief description of responsibilities: Geotechnical Laboratory Manager				
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).			
Ms. Litt 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				
10/18-06/21	**SP NO. H.000263.5-1 / CHEF MENTEUR PASS BRIDGE AND APPROACH, Orleans Parish, LA:** Laboratory Technician. Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.			
11/23-11/24	**SP NO. H.013284 / MRB SOUTH GBR LA 1 TO LA 30 CONNECTOR, Ascension, EBR, WBR and Iberville Parish, LA:** Laboratory Manager. Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.			
04/14-03/22	**SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241, St. Tammany Parish, LA:** Laboratory Technician. Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.			
02/25-04/25	**25-80-3703 / GEOSYNTEC INTERNATIONAL PAPER, Vicksburg, MS:** Laboratory Manger. Assisted with the completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and Unconsolidated-Undrained Triaxial, Consolidated-Undrained Triaxial, Laboratory Vanes and pH of Soils. Managed cost estimates, laboratory scheduling, direct communication with client, and transmission of all test data.			
10/09-Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW, Vicksburg, MS:** Laboratory Manager. Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.			

	Firm employed by: Ardaman and Associates, Inc.			
Ardaman & Associates, Inc.	**Donald Anthony** | *Geotechnical*		Years of relevant experience with this employer	22
			Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization	High School Diploma	Year registered	
	Active registration number / state / expiration date	Louisiana Water Well Driller's License #WWC-212, 2023, Mississippi Monitoring Well and Geotechnical Driller's License, RMO-00013102, Exp. 06-30-2025, Traffic Control Technician / LA / 09-24-2028, Traffic Control Supervisor / LA / 09-24-2028	Discipline	
Contract role(s) / brief description of responsibilities: Geotechnical Technician				

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Mr. Anthony has over 22 years of experience drilling in the Louisiana Gulf Coast Region. This experience has included soil borings (on land and over water), CPT, monitor well installation and abandonment, and installation of geotechnical monitoring instrumentation. He has drilled in very soft organic rich soils, very stiff clays, sands and gravels. He has experience drilling in all regions of Louisiana as well as many areas in Mississippi and some in Texas.	
07/15-Ongoing	**SP NO. H.004273.5 I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE), Lafayette Parish, LA:** Drilling Supervisor. Supervised the completion of preliminary field investigation consisting of 120 deep borings, 19 CPT soundings, and 26 shallow borings.
08/23-12/23	**Grenada Substation – Entergy, Grenada County, MS:** Drilling Supervisor. Oversaw the completion of 9 75-foot-deep soil borings and 4 100-foot CPT soundings for an Entergy Substation. (23-2827)
02/12-11/13	**SP NO. H.003495.5 / I-49 SEGENT K (I-220 TO MLK) Caddo Parish, LA:** Drilling Supervisor. Conducted field reconnaissance, which included rights of entry, utility locations, access and locating all deep and shallow borings. Oversaw completion of numerous deep and shallow borings in accordance with LADOTD standards.
07/09-11/11	**LA 1, PHASE 1 AND PHASE 2, Lafourche Parish, LA:** Senior Driller. Mr. Anthony performed drilling and CPT services for a geotechnical investigation conducted in Louisiana coastal marshes utilizing a fleet of customized airboats. This project included over 100 boring and CPT sounding sample locations.
01/24-03/24	**Bell Lumber Facility: Copiah County, LA:** Drilling Supervisor. Oversaw completion of 2 60-foot soil borings and 6 25-foot soil borings for the Bell Lumber Facility in Hazlehurst, MS.
02/24-08/24	**Pine Tree Transmission Line: Adams County, MS:** Drilling Supervisor. Oversaw completion of 3 deep soil borings and 1 70-foot soil boring for the Pine Tree Transmission Line in Natchez, MS.
07/18-Ongoing	**MID-BRETON SEDIMENT DIVERSION: Plaquemines Parish, LA:** Senior Driller. Mr. Anthony serves as Senior Driller for CPRA's Mid-Breton Sediment Diversion Project which will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Breton Sound Basin. This project includes a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, a conveyance channel across the protected landside area, and a back structure through the existing hurricane surge protection levee. The fieldwork for this project included over 50 sample locations inclusive of 3-in and 5-in diameter borings, CPTs, Vane Shear tests, and resistivity testing.

SECTION 16 | STAFF EXPERIENCE

Resumes included in the following order:

Timothy Parsons, PhD, RPA | MPR #9
Matt Nowak, MA, RPA
Jessica (Fish) Muse, MSt, RPA

Bookmarks added to pdf for ease of review.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)			
SEARCH	**Timothy Parsons, PhD, RPA** | *Cultural Resources* MPR 9		Years of relevant experience with this employer	4
			Years of relevant experience with other employer(s)	18
	Degree(s) / Years / Specialization	PhD | 2011 | Anthropology MS | 2007| Anthropology BS | 2005 | Anthropology	Year registered	2007
	Active registration number / state / expiration date	RPA #989337 | USA | N/A	Discipline	Archaeology

Contract role(s) / brief description of responsibilities:
Mr. Parsons will provide cultural resources services. Mr. Parsons fulfills Minimum Personnel Requirement #9.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Meets Secretary of the Interior's Standards (MPR #10) – SOI Qualified: Archaeology. Contract Manager. Responsible for management and execution of contractual requirements and regulatory oversight on task orders. Serves as the primary point of contact for the Prime on contractual matters, task order management and cost controls.	
03/24–06/30	**Contract Manager, Districtwide General Cultural Resources Support, Multiple Counties, Florida. Contract CA939.** SEARCH serves as a subconsultant providing cultural resources services for tasks assigned through a continuing services contract. Conducted for Moffat & Nichol for the Florida Department of Transportation District Three.
07/24–07/25	**Project Manager, Cultural Resource Survey for the USDA NRCS Easement Exchange, Marengo County, Alabama.** The survey of the 22.76-acre area was completed to support the exchange of a portion of an existing conservation easement held by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) on privately owned land (DB 7U PG 773) for construction of a portion of the West Alabama Highway (WAH). The fieldwork included shovel tests and a pedestrian survey. No previously recorded or new cultural resources were located or identified. Conducted for Volkert, Inc. for the Alabama Department of Transportation.
09/22–10/23	**Senior Project Manager, Phase I Cultural Resources Survey of the Louisiana Energy Gateway Pipeline in the Us Army Corps of Engineers Fort Worth District, Caddo, Sabine, and Desoto Parishes, Louisiana.** Served as Assistant Project Manager and report writer responsible for scope of work development, preparing agency consultation materials, and writing portions of the final report. SEARCH provided a Principal Investigator, field leadership, office support, and field archaeologists for the 36-Inch and 42-Inch pipeline. Completed for Power Engineers.
08/22–03/23	**Senior Project Manager, Phase I Cultural Resources Survey of the Louisiana Energy Gateway 36-Inch Pipeline Project in the US Army Corps of Engineers Vicksburg District, Desoto Parish, Louisiana.** Served as Assistant Project Manager and report writer responsible for scope of work development, preparing agency consultation materials, and writing portions of the final report. The 33.4-mile natural gas pipeline was comprised of 42 Survey Areas encompassing 618.8 acres. The archaeological survey consisted of pedestrian survey and 19 shovel tests. The architectural history survey identified previously recorded NRHP-listed Myrtle Hill Plantation House (NR #74002185/16-01563) and five newly recorded resources (16-01564 through 16-01568). This survey was conducted in support of USACE Section 404 permit requirements. SEARCH provided a Principal Investigator, field leadership, office support, and field archaeologists to support the proposed 165-mile pipeline field survey. Conducted for Power Engineers.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)
01/22–12/22	**State Historic Preservation Officer and Director, Programmatic Agreement and Section 106 Consultation, Regarding the Section 106 Process for the EPA's Approval of the State of Florida's Request to Assume a Clean Water Act Section 404 Permitting Program.** Consulting Parties/Signatories Include the US Environmental Protection Agency, the Advisory Council on Historic Preservation, the Florida State Historic Preservation Officer, and the Florida Department of Environmental Protection.
01/19–12/19	**State Historic Preservation Officer and Director, Memorandum of Agreement and Section 106 Consultation regarding the Mitigation of Adverse Effects to Site 8LI458 from the Whitehead Landing Recreation Plan, Apalachicola National Forest, Liberty County, Florida.** Consulting Parties/Signatories include National Forests in Florida, United States Forest Service, the Florida State Historic Preservation Office, the Advisory Council on Historic Preservation, and the Poarch Band of Creek Indians. Stipulations include Phase III data recovery at the site.
01/18–12/18	**State Historic Preservation Officer and Director, Memorandum of Agreement and Section 106 Consultation regarding the Demolition of Elevated Water Tanks 546 and 1034, Corry Station, Escambia County, Florida.** Stipulations include submittal of a variety of historical documents and photographs to the Florida SHPO and updates to all Florida Master Site File records for the 13 properties that contribute to the Corry Station Historic District (8ES2515).
01/17–12/17	**State Historic Preservation Officer and Director, Section 106 Tribal Consultation, The Significance of People and Preservation: Tribal Archaeology, Traditional Cultural Properties, and Section 106 of the National Historic Preservation Act. In We Come for Good:** Archaeology and Tribal Historic Preservation at the Seminole Tribe of Florida, edited by Paul N. Backhouse, Brent R. Weisman, and Mary Beth Rosebrough. University Press of Florida, University of Florida, Gainesville.
01/16–12/16	**State Historic Preservation Officer and Director, Memorandum of Agreement and Section 106 Consultation resolution of Adverse Effects Resulting from the Construction of a Boat Basin, Brickell Drive, Broward County.** Signatories/Consulting Parties include the US Army Corps of Engineers, the permit applicant, the Florida State Historic Preservation Officer, the Seminole Tribe of Florida, and the Miccosukee Tribe of Indians of Florida. Stipulations include Phase III archaeological data recovery at the Colee Hammock Site (8BD02).
01/15–12/15	**Deputy State Historic Preservation Officer for State and Federal Compliance and Review, Programmatic Agreement and Section 106 Consultation regarding the Loxahatchee River Watershed Restoration Project, Martin and Palm Beach Counties, Florida.** Consulting Parties and Signatories include the US Army Corps of Engineers, the Florida State Historic Preservation Office, and the Advisory Council on Historic Preservation.
01/13–12/13	**Deputy State Historic Preservation Officer for State and Federal Compliance and Review, Memorandum of Agreement and Section 106 Consultation regarding use of Historic Egmont Key for Dredge Material Disposal Purposes.** Consulting Parties/Signatories include US Army Corps of Engineers, US Fish and Wildlife Service, and the Florida State Historic Preservation Officer. This MOA resolved adverse effects resulting from the USACE's placement of dredge material on Egmont Key, listed on the National Register of Historic Places in 1978 and of cultural importance to the Seminole Tribe of Florida. Stipulations including archaeological monitoring during placement of dredged material, consultation to identify appropriate placement areas, and ensuring protection of historic and archaeological material.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)			
SEARCH	**Matt Nowak, MA, RPA** | *Cultural Resources*		Years of relevant experience with this employer	8
			Years of relevant experience with other employer(s)	1
	Degree(s) / Years / Specialization	MA | 2022 | Archaeology and Heritage Cert | 2018 | Cultural Resource Management – Archaeology BS | 2017 | Anthropology	Year registered	2022
	Active registration number / state / expiration date	RPA #5201 | USA | N/A	Discipline	Archaeology

Contract role(s) / brief description of responsibilities:
Mr. Nowak will provide cultural resources 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 time years of experience specified in the applicable MPR(s).
Meets Secretary of the Interior's Standards (MPR #10) – SOI Qualified: Archaeology. Principal Investigator (terrestrial archaeology). Responsible for scope execution, field investigations and documentation, research, reporting, and NRHP eligibility recommendations. Serves as the technical point of contact and primary author of report	
01/22–12/24	**Senior Archaeologist, Phase I Cultural Resources Assessment Survey for St. James II–III and the St. Jacques–Vacherie Solar Project Areas, St. James Parish, Louisiana.** The archaeological survey included pedestrian reconnaissance and the excavation of 4,332 shovel tests, 8 augers, and 2 test units resulting in the recovery of 923 historic artifacts and the documentation of 1 previously recorded site, 14 newly recorded sites, and 13 isolated finds. The isolated finds are considered not eligible for listing in the NRHP, and no further work was recommended. The architectural history survey documented 4 newly recorded resources that are not eligible for NRHP inclusion, either individually or as contributing resources to a potential historic district. Conducted for ECS Southeast LLD for D.E. Shaw Renewable Investments.
11/21–11/24	**Principal Investigator, Phase III Data Recovery along the proposed route for the Lowman Pipeline in Choctaw and Washington Counties Alabama.** Search conducted a Phase III data recovery at Sites 1CW363, 1CW365, and 1WN204. Conducted for NE Pipeline Holdings (Lowman) Inc.
07/23–07/24	**Principal Investigator, Phase II Site Assessment at Palm Lake Site 2 8MR4471 and Palm Lake Site 3 8MR4472 within the I-75 Right-of-way from SR 200 to SR 326, Marion County, Florida. FM #446756-1.** SEARCH identified these sites in 2023 during a Phase I Survey of this parcel. Phase II evaluative testing included the excavation of six test units which resulted in the recovery of approximately 6,700 artifacts. Conducted for Protean Design Group for the Florida Department of Transportation District Five.
02/20–05/20	**Staff Archaeologist, Archaeological Fieldwork Support for the Acadia to Gillis Pipeline Project, Calcasieu Parish, Louisiana.** SEARCH provided field staff to support a pedestrian survey, shovel testing, and GPS data collection for the 81-mile corridor. Conducted for BGE, Inc. for Enterprise Products Operation, LLC.
09/18–09/19	**Archaeologist, Phase I Cultural Resources Survey for Bay Springs Timber Sale Tenn-Tom Project Lands, Prentiss and Tishomingo Counties, Mississippi.** Conducted for USACE Mobile District.
02/22-08/22	**Senior Archaeologist, Archaeological Monitoring Report Lowman Pipeline Project, Choctaw and Washington Counties, Alabama.** In total, 17 archaeological sites, one cemetery, and a TCP were subject to archaeological monitoring. Archaeologists identified cultural material at six previously recorded archaeological sites and recorded one new archaeological site. Conducted for NextEra Energy Pipeline Holdings, Inc.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)
10/19–01/22	**Project Archaeologist, Cultural Resource Consultation Services for the 51-mile-long Lowman Pipeline, Choctaw and Washington Counties, Alabama.** This multi-year, multi-phased project included Phase I Cultural Resources Survey and predictive modeling, Phase II Site Evaluations, Phase III mitigation, Archaeological Monitoring, and SHPO consultation. Conducted for EDGE for Next Era Energy.
09/20–11/21	**Project Archaeologist, Archaeological Survey of Seven Stream Crossings Along Proposed Access Roads and Tie Line for the Black Bear Solar Project, Montgomery County, Alabama.** The archaeological survey consisted of pedestrian survey and 27 shovel tests, all of which were negative for cultural material. No evidence of archaeological sites was identified. Conducted for WSP USA, Inc.
01/20–03/20	**Staff Archaeologist, Pedestrian Reconnaissance for the Black Bear Solar Project Gen-Tie Right-of-Way and Holleman Section, Montgomery County, Alabama.** The gen-tie right-of-way consists of a corridor approximately 3.85 miles in length, 60 feet in width, and covering 32.9 acres of pasture and agricultural land. The Holleman section consists of a 52.9-acre parcel. Conducted for WSP USA, Inc.
05/20–12/20	**Staff Archaeologist, Phase I Cultural Resource Assessment Survey of the Hollis T. Williams Stormwater Park, Escambia County, Florida. Conducted for HDR for Escambia County.** The archaeological survey of the 39-acre area consisted of a pedestrian reconnaissance survey and 47 shovel tests resulting in the documentation of new multicomponent archaeological site Lost Neighborhood (8ES04729). The architectural survey resulted in the identification and evaluation of previously recorded NRHP site Alabama & Florida (A&F) Railroad (8ES03738). Conducted for HDR, Inc. for Escambia County.
03/18–05/19	**Crew Lead, Report Writer, Cultural Resource Assessment Survey for the Stormwater Ponds and SR 8 (I-10) PD&E Study from East of Alabama State Line to West of SR 95 (US 29), Escambia County, Florida. FM #437905-1.** SEARCH reviewed The Florida Master Site File GIS database and the Escambia County Property Appraiser's GIS database. The archaeological survey of the 10-mile corridor included pedestrian survey and 208 shovel tests which resulted in evaluation of previously recorded archaeological site (8ES03789) and new historic archaeological sites (8ES04702 and 8ES04703) were identified and recorded. Conducted for the Florida Department of Transportation District Three.
08/19–12/19	**Archaeologist, Cultural Resource Investigations of the Black Bear Solar Survey Area, Montgomery County, Alabama.** SEARCH completed background research and a pedestrian reconnaissance survey of 1,062 acres of pasture and agricultural land. The survey identified intact piers as well as structural debris, a small cemetery, an area containing nineteenth or early twentieth-century artifacts and architectural debris, and a partially collapsed building of cinder block construction. Conducted for Ecology & Environment, Inc. for Lightsource Renewable Energy North America Operations, LLC [now Lightsource BP].
07/19–01/21	**Archaeologist, Cultural Resource Assessment Survey for the SR 8 (I-10) from the Florida/Alabama State Line to the Pensacola Weigh Station and CR 99 (Beulah Road) from the US 90A/SR 10 (W. Nine Mile Road) to CR 186 (W. Kingsfield Road), Escambia County, Florida.** The archaeological survey resulted in newly documented historic archaeological site Narrow Ridge (8ES04697). The architectural survey resulted in the identification and evaluation of one previously recorded resource and 11 newly recorded resources. Conducted for Parsons for the Florida Department of Transportation District Three.
09/14–09/18	**Archaeologist, Cultural Resource Assessment Survey for the State Road 79 Florida-Alabama Connector, Holmes, Washington, and Jackson Counties, Florida.** FM #433590-1. Conducted for Lochner for the Florida Department of Transportation District Three.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)			
SEARCH	**Jessica (Fish) Muse, MSt, RPA** | *Cultural Resources*		Years of relevant experience with this employer	11
			Years of relevant experience with other employer(s)	3
	Degree(s) / Years / Specialization	MSt | 2011 | Archaeology BA | 2010 | Anthropology	Year registered	2011
	Active registration number / state / expiration date	RPA #34344597 | USA | N/A	Discipline	Archaeology

Contract role(s) / brief description of responsibilities:
Ms. Muse will provide cultural resources 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 time years of experience specified in the applicable MPR(s).
Meets Secretary of the Interior's Standards (MPR #10) – SOI Qualified: Archaeology. Archaeology Project Manager. Responsible for project scope management, oversight, compliance, and quality performance and products. Serves as primary point of contact to Prime Contractor and Client.	
09/14–09/18	**Project Archaeologist, Cultural Resource Assessment Survey for the State Road 79 Florida-Alabama Connector, Holmes, Washington, and Jackson Counties, Florida. FM #433590-1.** Conducted for Lochner for the Florida Department of Transportation District Three.
01/24–present	**Project Manager, Cultural Resources Survey in Support of SR 426 Improvements, Orange County, Florida. FM #451282-2 and FM #450775-1.** The Phase I survey consisted of a pedestrian survey, as field conditions precluded the excavation of subsurface tests. No artifacts were recovered, and no archaeological sites or occurrences were identified. The architectural history survey resulted in the identification and evaluation of two previously recorded resources, one resource group (8OR09136) and one building (8OR09227), and eight newly recorded buildings (8OR11990–8OR11997). Conducted for American Structurepoint, Inc. for the Florida Department of Transportation District Five.
06/21–present	**Principal Investigator, District-Wide Miscellaneous PD&E Cultural Resources Services Support, Multiple Counties, Florida.** As a subconsultant, SEARCH provided Cultural Resources Services for transportation improvement projects. Conducted for American Consulting Engineers of Florida for the Florida Department of Transportation District Seven.
04/22–09/23	**Project Manager, Phase I Cultural Resource Assessment Survey for Improvements to Anclote Road in Pinellas County, Florida.** The archaeological survey included the excavation of nine shovel tests that resulted in the identification of newly recorded archaeological site 8PI14498. The architectural survey resulted in the identification and evaluation of six previously recorded resources and four newly recorded resources. Conducted for Pennoni and Pinellas County of County Commissioners.
01/23–11/23	**Project Manager, Cultural Resources in Support of PD&E Services for the Reconstruction of Old Lake Wilson Road (Urban Minor Arterial), Osceola County, Kissimmee, Florida.** Conducted for Inwood Consulting Engineers, Inc. for Osceola County.
04/24–12/24	**Project Manager, Phase II Evaluation Testing for the Northwest 2nd Avenue Scatter Site (8AL07412) in support of the SR 26 West Newberry Improvements, Alachua County, Florida. FM #207850-2.** The NW 2nd Avenue Scatter Site (8AL07412) was first identified by SEARCH in April 2022 during Phase I survey. The site was associated with the historic African American community in Newberry from the late nineteenth- and early twentieth-century. Phase II testing yielded 658 historic-period artifacts in addition to the 207 that had been recovered from the site during the Phase I survey. The low density of artifacts, evidence for disturbance to the site, and the absence of features that would identify the location of the historic buildings, it was SEARCH's opinion that the sites were ineligible for listing in the NRHP. Conducted for Hanson Professional Services, Inc. for the Florida Department of Transportation District Two.

	Firm employed by: Southeastern Archaeological Research, LLC (SEARCH)
03/19–03/22	**Project Manager, Phase I Cultural Resource Assessment Survey for the Widening of SR 91, Lake County, Florida. FM #435786-1.** The archaeological survey of the 11-mile corridor consisted of a pedestrian survey and 330 shovel tests which resulted in four newly recorded archaeological sites (8LA04961-8LA04964), four previously recorded sites (8LA02536-8LA02539), and six archaeological occurrences. The architectural survey resulted in the identification and evaluation of one previously recorded resource and 11 newly recorded resources. Conducted for Stantec Consulting Services, Inc. for Florida's Turnpike Enterprise.
11/19–12/21	**Principal Investigator, Cultural Resource Assessment Survey for CR 220 in Support of the PD&E Study from SR 21 (Blanding Boulevard) to Henley Road, Clay County, Florida. FM #430719-4.** The archaeological survey for the 3.0-mile segment consisted of a pedestrian survey and 87 shovel tests which were negative for cultural material. The architectural survey resulted in the identification and evaluation of 10 newly recorded historic resources and two previously recorded historic resources. Conducted for Scalar Consulting Group, Inc. for the Florida Department of Transportation District Two.
07/20–08/20	**Project Manager, Cultural Resource Assessment Survey I Support of I-95 (SR 9) from SR 202 (J. Turner Boulevard) to Atlantic Boulevard Interchange and Three Ponds, Duval County, Jacksonville, Florida. FM #432259-2**. The archaeological survey of the 0.44-mile roadway corridor was limited to a pedestrian survey resulting in no archaeological sites, archaeological occurrences or NRHP-eligible or -listed resources identified. The survey of the three ponds included seven shovel tests which were negative for cultural material. The architectural survey of the pond areas resulted in the identification and evaluation of six newly recorded historic resources. Conducted for RS&H, Inc. for the Florida Department of Transportation District Two.
01/19–12/19	**Project Manager, Archaeological Monitoring of the State Road 30 (US 98) Hurricane Michael Recovery Permanent Repairs in Mexico Beach, Bay County, Florida.** SEARCH conducted background research and eight archaeological monitoring sessions during the subsurface work. Conducted for the Florida Department of Transportation District Three.
10/18–12/19	**Principal Investigator, Cultural Resource Assessment Survey (CRAS) for Seven Retention Pond Locations Associated with Improvements to SR 61/369 (US 319) from Alaska Way to Lost Creek Bridge, Wakulla County, Florida. FM #220495-3 and FM #220495-6.** The current survey was limited to approximately 24.4 acres of proposed pond footprints that were not included in the original report or 2014 addendum. The current archaeological survey included 81 shovel tests, all of which were negative for cultural material. The architectural survey resulted in the identification and evaluation of previously recorded buildings (8WA00569 and 8WA01053). Conducted for the Florida Department of Transportation District Three.
02/18–08/18	**Project Archaeologist, Cultural Resource Assessment Survey for the SR 30 Sidewalk from CR 22A (Bob Little Road) to SR 30A, Bay County, Florida. FM #438111-1.** The archaeological survey of the 0.612-mile corridor was limited to a pedestrian survey and surface inspection due to the level of subsurface disturbance. No archaeological sites or archaeological occurrences were recorded. The architectural survey resulted in the identification and evaluation of four newly recorded buildings and previously recorded building 8BY00748. All were recommended ineligible for NRHP listing. Conducted for Parsons for the Florida Department of Transportation District Three.
10/14–01/20	**Project Archaeologist, Phase I Cultural Resource Assessment Survey in Support of the SR 75 (US 231) from SR 30A (US 98) Stormwater Ponds Project in Bay County, Florida. FM #217910-01.** The project area included approximately 3.9 miles of roadway and 16.25 acres of stormwater ponds. Conducted for the Florida Department of Transportation District Three.

SECTION 16 | STAFF EXPERIENCE

Mead&Hunt

Resumes included in the following order:

Christina Slattery | MPR #10
Emily Pettis | MPR #11

Bookmarks added to pdf for ease of review.

	Firm employed by: Mead and Hunt, Inc.			
Mead & Hunt	**Christina Slattery** | *Cultural Resources* MPR 10		Years of relevant experience with this employer	30
			Years of relevant experience with other employer(s)	1
	Degree(s) / Years / Specialization	MS | 1994 | Historic Preservation BA | 1991 | Art History	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Slattery will provide cultural resources services. Ms. Slattery fulfills Minimum Personnel Requirement #10.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Meets Secretary of the Interior's Standards (MPR #10) – Completion of Master's Degree in Historic Preservation meets the Secretary of the Interior's Professional Qualification Standards for Architectural History.	
05/12 - Ongoing	**Statewide Historic Bridge Inventory, Louisiana (LADOTD) –** Co-project manager and senior architectural historian responsible for completion of a historic bridge inventory of 4,590 state- and locally-owned bridges constructed through 1970. Work included preparation and implementation of public involvement plan including agency coordination and notification to Solicitation of Views List. Responsibilities included preparation of a historic context, an evaluation methodology to assess the National Register significance and historic integrity for the bridges, and field survey of select bridges. Eligibility recommendations prepared for the structures utilizing the evaluation methodology. The second phase of the project was the identification of historic bridges in collaboration with bridge engineers and a historic bridge committee to identify candidates for preservation priority based on historic and engineering features. A Programmatic Agreement (PA) was negotiated with stakeholders to address the future management of the state's historic bridges. A survey update was completed to assess structures built thru 1985 was also completed. Mead & Hunt is on-call to assist with additional PA implementation activities, as needed. Christina was responsible for overseeing historic research and context preparation, field survey efforts, eligibility recommendations, negotiation of the PA, survey update and ongoing activities.
09/19 – 07/20	**Section 106 Evaluation and Coordination – SD-44 Bridge, Platte-Winner, South Dakota, South Dakota Department of Transportation –** Christina served as lead architectural historian for the historic evaluation and Section 106 coordination for the SD-44 Bridge including the site visit and photographic documentation of the bridge, followed by extensive research on the history of the bridge and its engineering design and construction. The bridge was determined to be eligible for the National Register of Historic Places. Christina worked with the State Historic Preservation Office (SHPO), DOT, U.S. Army Corps of Engineers, and stakeholders to execute a Memorandum of Agreement (MOA) to develop mitigation measures to address the adverse effect to replacement of the National Register-eligible bridge. Following the MOA stipulations, the Mead & Hunt project team prepared detailed historical documentation of the bridge and text and photography for an ArcGIS StoryMap for public interpretation of the bridge history.
08/22 - 06/23	**Minnesota Historic Bridge Inventory Update – Statewide, Minnesota, Minnesota Department of Transportation –** The Minnesota Department of Transportation Cultural Resources Unit (CRU) retained Mead & Hunt to complete a reevaluation of approximately 4,500 pre-1956 Minnesota highway bridges that were previously determined not eligible for listing in the National Register National Register. Christina served as lead architectural historian and participated in client meetings, and assisted with developing a reevaluation methodology, preparing documentation, and providing quality review. Mead & Hunt reevaluated the bridges to confirm previous determinations and identify potential associations with historic districts using previously completed survey methodology, registration requirements in previous Multiple Property Documents, and through application of the Advisory Council on Historic Preservation's Program Comment Issued for Streamlining Section

	Firm employed by: Mead and Hunt, Inc.
	106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges. Individual National Register eligibility statements were recorded in a Microsoft Access database and on streamlined inventory forms developed for the project. Mead & Hunt provided an updated database, final report with the reevaluation methodology and summary of results and streamlined inventory forms to CRU. Christina served as lead architectural historian and participated in client meetings, assisted with developing a reevaluation methodology, and provided quality review.

	Firm employed by: Mead and Hunt, Inc.			
Mead & Hunt	**Emily Pettis** | *Cultural Resources* MPR 11		Years of relevant experience with this employer	24
			Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization	MA | 1999 | Public History BA | 1997 | History	Year registered	N/A
	Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Ms. Pettis will provide cultural resources services. Ms. Pettis fulfills Minimum Personnel Requirement #11.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
Section 106 Courses (MPR #12) - Completed National Preservation Institute Section 106 Courses – "Section 106: An Introduction" in 2002; "Section 106: How to Write and Negotiate Agreement Documents" in 2003 and "Section 106: A Review for Experienced Practitioners" in 2014	
05/23 - Ongoing	**Section 106 Coordination – 16th Street Viaduct Bascule Span Rehabilitation, Milwaukee, Wisconsin, City of Milwaukee** – Emily served as project manager and lead architectural historian for the completion of Section 106 compliance for the 16th Street viaduct bascule span rehabilitation project. The overall viaduct spans the Menomonee River Valley and is listed in the National Register National Register under Criterion A for its historic association with the Civil Rights movement. Emily oversaw the preparation of a Determination of Eligibility (DOE) for the bascule span and recommended it individually eligible for the National Register under Criterion C Engineering as an intact example of a Milwaukee-type bascule. The rehabilitation project will remove the bascule operator's house and mechanical components, resulting in an adverse effect. Emily participated in consultation meetings with stakeholders, coordinated with the project team to develop appropriate mitigation measures, and developed the D for C and MOA. Emily also oversaw mitigation measures including development of the interpretive plan to salvage the operator's house and machinery and the development of an interpretive exhibit.
07/15 – 02/25	**Section 106 Coordination, Reconnaissance Survey and Determinations of Eligibility, Racine, Wisconsin, City of Racine –** Emily served as project manager and lead architectural historian to complete Section 106 compliance activities for the replacement of the W. 6th Street Bridge over the Root River. Emily oversaw the completion of a reconnaissance survey to identify historic properties within the Area of Potential Effects (APE). The W. 6th Street Bridge, Holy Communion Lutheran Church complex, and Root River Parks System were identified as eligible for listing in the National Register. Mead & Hunt prepared the Documentation for Consultation (D for C) and MOA to mitigate adverse effects to the bridge and Root River Parks System. Emily administered the project schedule and budget, oversaw the preparation of the survey documentation and eligibility evaluations, led consultation efforts and developed the MOA. She also participated in mitigation efforts including preparation of context sensitive design for the new bridge and the preparation of the National Register Nomination for the park system.
03/22 – 03/24	**Section 106 Compliance – Dunbar Toll Bridge, Dunbar, West Virginia, West Virginia Division of Highways (WVDOH) –** Emily served as project manager assisting the WVDOH with Section 106 compliance activities for the proposed replacement of the Dunbar Toll Bridge, a 1953 steel through truss bridge. Mead & Hunt delineated the APE and prepared an architecture/history survey report and Historic Property Inventory (HPI) forms for 46 historic-age properties. Intensive-level evaluations were completed for five of those properties, and four were recommended eligible for the National Register: the Dunbar Toll Bridge and its associated Dunbar Bridge Commission Office, Bethel Baptist Church, and relocated Dunbar Passenger Station. The report was accepted by the WVDOH and the West Virginia SHPO concurred. In an upcoming project phase Mead & Hunt will work with WVDOH to complete the consultation process and develop a Memorandum of Agreement to mitigate the replacement of the eligible bridge. Emily coordinated with the client, oversaw survey and evaluation activities and provided quality review of project deliverables.

SECTION 16 | STAFF EXPERIENCE

NTBA
SURVEY. DESIGN. BUILD. SUCCEED.

Resumes included in the following order:

Bryan T. Bunch, PLS | MPR #25
Mike J. King, PLS
Amy K, Schulze, PE, CFM

Bookmarks added to pdf for ease of review.

RED FONT??????

	Firm employed by: NTB Associates, Inc. **Bryan T. Bunch, PLS** | *Survey*		Years of relevant experience with this employer	16
			Years of relevant experience with other employer(s)	15
	Degree(s) / Years / Specialization	B.S. / 1988 / Survey and Land Information Systems, University of Arkansas	Year registered	2009
	Active registration number / state / expiration date	5014 / Louisiana / 03/31/2026	Discipline	Professional Surveyor

MPR 25

Contract role(s) / brief description of responsibilities: Mr. Bryan Bunch will serve as Project Manager for topographic surveying services and the development of surface models from LiDAR data. Bryan satisfies MPR No. 25 per the advertisement.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
12/24 – 04/25	**LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975)** assisted in the supervision and review of survey data and processing for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects.
01/23 – 04/25	**LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.
09/20 – 04/25	**LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner.
08/22 – 04/25	**CenterPoint Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.)** Quality Control Surveyor assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.
09/20 – 03/25	**LaDOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400019715)** Quality Control Surveyor assisting in staffing and coordination for single beam and multibeam hydrographic surveying services and development of surface models from LiDAR data for multiple bridges at scheduled intervals upstream and downstream for 301 sites throughout southern districts.
12/17 – 11/24	**LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs)** Survey Project Manager directed field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.
04/22 – 04/23	**LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713)** Survey Project Manager directed field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, QL C & D subsurface utility services, drainage map preparation, and Mobile LiDAR Scanning for interstate rehabilitation.
12/20 – 03/22	**LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** Survey Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, multibeam hydrographic survey of the bridge structure piers to determine scour impact, and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation.

	Firm employed by: APS Engineering and 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 time years of experience specified in the applicable MPR(s).
07/20 – 11/21	**LaDOTD IDIQ Contract for Hydrographic Surveying Services Statewide, LA (4400012669)** A Quality Control Surveyor assisting in staffing and coordination for single beam and multibeam hydrographic surveying services and development of surface models from LiDAR data for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout southern districts.
12/20 – 03/21	**LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5)** Assistant Project Manager assisted in the supervision and review of survey data and processing for topographic surveying services.
03/21 – 03/22	**City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)** Survey Project Manager directed field crews, file processing, drafting, and submittals for control, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, and property surveys along with surveys in support of QL B, C, and D subsurface utility designating services.
05/15 – 12/20	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** Quality Control Surveyor supervised south LA field crews and technicians for Static GPS Control surveys, topographic, property, single beam and multibeam hydrographic surveying services, development of surface models from LiDAR data, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
10/15 – 07/16	**LaDOTD MacArthur Interchange Completion (Phase II) Route US 90-Z, Jefferson Parish, LA (4400005142 & H.011309.5)** Project Manager directed field crews, file processing, drafting, and submittals for topographic surveying services as a sub to SDR Engineering.
04/15 – 02/16	**LaDOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5)** Assistant Project Manager supervised south LA crew members and technicians for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for interstate rehabilitation.
05/13 – 10/15	**Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)** Quality Control Surveyor assisted in staffing, coordination, and QA/QC for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	**LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** Quality Control Surveyor assisted in staffing, coordination, and QA/QC for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	**LaDOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5)** Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for an overpass connection, relocation of existing lanes, and construction of additional lanes as a sub to AECOM
07/12 – 01/14	**LaDOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for interstate rehabilitation as a sub to GEC, Inc.
07/12 – 06/13	**LaDOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for interstate rehabilitation as a sub to GEC, Inc.
07/10 – 10/12	**LaDOTD LA 42 Widening and Improvements District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538)** Project Surveyor directed topographic and property surveys and title work to locate all existing structures within 50 feet of proposed right-of-way. Bryan also managed the preparation of right-of-way acquisition maps for 165 parcels.
03/10 – 10/11	**US 61 Hemlock Drive Intersection – St. John the Baptist Parish, LA (Agency Proj. No. 76716-00)** Project Surveyor directed topographic and property surveys and the preparation of right-of-way maps for use as basis for engineering design for a new 4-lane divided state highway as a sub to Buchart Horn

	Firm employed by: NTB Associates, Inc.			
	**Mike J. King, PLS**| *Survey*		Years of relevant experience with this employer	18.5
			Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization	B.S. / 2012 / Construction Management, Louisiana State University	Year registered	2015
	Active registration number / state / expiration date	5127 / Louisiana / 09/30/2025	Discipline	Professional Surveyor

Contract role(s) / brief description of responsibilities: Mr. Mike King will serve as Assistant Project Manager for topographic surveying services and the development of surface models from LiDAR data. He will work closely with Bryan Bunch during this contract.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
12/24 – 04/25	**LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975)** Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects.
01/23 – 04/25	**LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** Assistant Project Manager assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.
04/21 – 04/25	**LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** Assistant Project Manager assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner.
08/22 – 04/25	**CenterPoint Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.)** Quality Control Surveyor assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.
09/20 – 03/25	**LaDOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400019715)** Assistant Project Manager assisting with supervision of field crews, file processing, drafting, and submittal preparation for single beam and multibeam hydrographic surveying services and development of surface models from LiDAR data for multiple bridges at scheduled intervals upstream and downstream for 301 sites throughout southern districts.
12/17 – 11/24	**LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs)** Assistant Project Manager assisted in the management of field crews and technicians for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.
04/22 – 04/23	**LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713)** Assistant Project Manager assisted in the management of field crews and technicians for Static GPS Control, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, QL C & D subsurface utility services, drainage map preparation, and Mobile LiDAR Scanning for interstate rehabilitation.
03/21 – 03/22	**City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)** Quality Control Surveyor reviewed and processed data for control, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, and property surveys along with surveys in support of QL B, C, and D subsurface utility designating services.

	Firm employed by: APS Engineering and 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 time years of experience specified in the applicable MPR(s).
12/20 – 03/22	**LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** Assistant Project Manager assisted in the management of field crews and technicians for topographic surveys utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, multibeam hydrographic survey of the bridge structure piers to determine scour impact for bridge repair/ rehabilitation.
07/20 – 11/21	**LaDOTD IDIQ Contract for Hydrographic Surveying Services Statewide, LA (4400012669)** Assistant Project Manager assisted with management of field crews, file processing, drafting, and submittal preparation for single beam and multibeam hydrographic surveying services and development of surface models from LiDAR data for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout southern districts.
05/15 – 12/20	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** Quality Control Surveyor reviewed data and drafting for Static GPS Control surveys, topographic, property, single beam and multibeam hydrographic surveying services, development of surface models from LiDAR data, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
04/15 – 02/16	**LaDOTD I-20 (Airline Drive to I-220) Bossier Parish, LA (4400005532 & H.011319.5)** Quality Control Surveyor reviewed data and drafting for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for interstate rehabilitation.
04/15 – 09/15	**LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** Quality Control Surveyor reviewed data and drafting for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	**LaDOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5)** Sr. Survey Party Chief/Tech. ran a field crew and processed data for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for an overpass connection, relocation of existing lanes, and construction of additional lanes as a sub to AECOM
07/12 – 01/14	**LaDOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** Sr. Survey Party Chief/Tech. managed a survey crew and processed data for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning and development of surface models from LiDAR data for interstate rehabilitation as a sub to GEC, Inc.
07/12 – 06/13	**LaDOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** Sr. Survey Party Chief/Tech. ran a field crew and processed data for topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, QL B, C, and D subsurface utility designating, and surveys in support of QL A, B, C, and D subsurface utility designating/ locating for interstate rehabilitation as a sub to GEC, Inc.
07/10 – 10/12	**LaDOTD LA 42 Widening and Improvements, District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538)** Survey Party Chief/ Technician ran a field crew and processed data for topographic and property surveys in support of base and final right-of-way mapping, and title work.
02/11 – 08/11	**LaDOTD I-20 Rehabilitation Westerfield Avenue to Industrial Drive, District 04, Bossier Parish, LA (H.003860.5 & 700-99-0525)** Survey Party Chief/Tech. managed a survey crew and processed data for topographic surveys for interstate rehabilitation.
09/09 – 03/10	**LaDOTD Lawrence, Bogalusa, and Coburn Creek Bridges, Route LA 10, Washington Parish, LA (700-99-0484 & 701-65-1347)** Survey Party Chief/ Technician ran a field crew and processed data for topographic and property surveys in support of title work, title updates, title take-offs, and right-of-way map preparation.
02/07 – 02/09	**Brightside Lane Improvements – River Road (LA 327) to Nicholson Drive (LA 30) Baton Rouge, LA (EBR Proj. No. 25041.00)** Survey Crew Member/ Technician ran a field crew and processed data for topographic and property surveying services in support of the preparation of right-of-way maps as a sub to URS Corporation.

	**Firm employed by: NTB Associates, Inc.**			
	Amy K. Schulze, PE, CFM | *Sr. Project Engineer*		Years of relevant experience with this employer	7
			Years of relevant experience with other employer(s)	20
	Degree(s) / Years / Specialization	BS / 1998 / Civil Engineering, Ohio Northern University/ CFM National Certification: US-16-08839 / Electro-Magnetic Locating Instruments Certified/ Certificate of Locating Competency #WA2028 (Staking University)	Year registered	2002
	Active registration number / state / expiration date	30295 / Louisiana / 03/31/2027	Discipline	Professional Engineer

Contract role(s) / brief description of responsibilities: Mrs. Amy Schulze, PE, CFM will serve as SUE Project Engineer/ Manager during this contract. She will supervise and manage any required subsurface utility designating/locating 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 time years of experience specified in the applicable MPR(s).
01/22 – 04/25	**LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** SUE Project Manager for surveys in support of SUE, QL A, B, C, & D utility designating/ locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.
04/21 – 04/25	**LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** SUE Project Manager for QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Sigma/ Waggoner.
08/21 – 04/25	**LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** SUE Project Manager for QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKI.
08/22 – 04/25	**CenterPoint Energy Survey & SUE Services, LA (Various Proj. Nos. throughout LA)** SUE Project Manager for QL B, C, & D subsurface utility designating services and surveys in support of SUE in various parishes throughout Louisiana as a CenterPoint representative to assist with utility relocation activities. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.
08/20 – 03/25	**Baton Rouge North Airpark Utility Corridor Phase 2, Baton Rouge, LA (Unknown)** SUE Project Manager for QL B, C, & D subsurface utility designating at the Baton Rouge Metropolitan Airport. Surveys were performed to locate subsurface utilities within the designated limits. As part of Q LB designating, 4-way sweeps of the area were also performed to confirm that no other utilities exist within the project area.
01/25 – 02/25	**LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975)** SUE Project Manager for QL D subsurface utility record research services for preliminary designs of box culvert initiative projects.
04/18 – 11/24	**LaDOTD I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (H.004100.5)** SUE Project Manager for QL B, C, and D subsurface utility designating as well as for surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.
06/24 – 08/24	**St. Tammany Parish Government Carroll Road Survey & SUE, St. Tammany Parish, LA (42200856)** SUE Project Manager for QL B, C, and D utility designating services and surveys in support of SUE throughout the approximately 1.5 miles of the project corridor of Carroll Road including all surface streets, drainage ways, and 2 major intersections within and surrounding the project corridor.
06/24 – 08/24	**Ascension Parish Government LA 73 to LA 30 Roundabout, Ascension Parish, LA (MA-23-08)** SUE Project Manager for QL B, C, and D subsurface utility designating services, and surveys in support of SUE for the intersection improvements for the design of a new roundabout as a subconsultant to GEC, Inc.

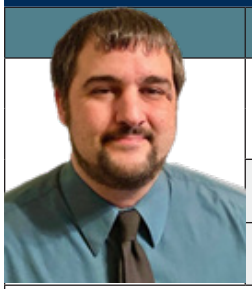
	Firm employed by: APS Engineering and Testing
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
02/21 – 02/24	**LaDOTD IDIQ Contract for SUE Services, I-10, Task Orders 1, 2, 4, & 5, East Baton Rouge Parish, LA (4400014660)** SUE Project Manager directed QL B, C, D subsurface utility designating services for four task orders for several additional areas around the I-10 corridor in conjunction with the on-going design-build contract.
06/22 – 04/23	**LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713)** SUE Project Manager for QL C & D subsurface utility services for interstate rehabilitation.
02/20 – 05/22	**City of Baton Rouge/ East Baton Rouge Parish, MOVEBR Bluebonnet Blvd. (Perkins – Picardy) East Baton Rouge Parish, LA (19-CP-HC-0034)** SUE Project Manager for QL A, B, C, and D subsurface utility designating/ locating throughout the approximately 1.5 miles of the project corridor.
03/21 – 03/22	**City of Baton Rouge/ East Baton Rouge Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)** SUE Project Manager for QL B, C, and D subsurface utility designating for approximately 1,500 feet of Ward Creek.
07/21 – 12/21	**Bossier Parish Police Jury, Linton Road Cutoff Intersection Redesign, Bossier Parish, LA (BPPJ 2021-126)** Project Engineer evaluated options to improve an intersection including QL C subsurface utility services to produce a preliminary layout for a new intersection design.
08/21 – 08/21	**LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** SUE Project Manager for QL C & D subsurface utility services for bridge repair/ rehabilitation.
12/20 – 03/21	**LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5)** SUE Project Manager assisted in the review of survey and utility data for topographic surveying services for bridge rehabilitation.
04/18 – 12/20	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** SUE Project Manager for QL A, B, C, and D subsurface utility designating/locating services in support of surveys and right-of-way mapping for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
07/19 – 02/20	**LaDOTD I-10: Loyola Interchange, Kenner, Jefferson Parish, LA (H.011670)** SUE Project Manager for QL B, C, and D subsurface utility designating services and surveys in support of QL B, C, and D subsurface utility designating for approximately 5 miles.
12/18 – 01/20	**LaDOTD LA 951: Roadway Washout Repairs, East Feliciana Parish, LA (H.013643)** SUE Project Manager for QL A, B, C, and D subsurface utility designating/ locating and surveys in support of QL A, B, C, and D subsurface utility designating/locating for approximately 2,600 feet of roadway.
12/18 – 03/19	**City of New Orleans, West End Subdivision, Phase B125, New Orleans, LA (Agency Proj. No. Unknown)** SUE Project Manager for QL B, C, and D subsurface utility designating along with surveys in support of QL B, C, and D subsurface utility designating for preliminary and final design services for FEMA-eligible street repairs.
06/18 – 10/18	**LaDOTD I-10: Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** SUE Project Manager for QL B, C, and D subsurface utility designating and surveys in support of QL A, B, C, and D subsurface utility designating/locating for approximately 2 miles for interstate rehabilitation as a sub to GEC, Inc.
09/15 – 04/18	**City of Zachary, Zachary, LA (Agency Proj. No. Unknown)** City Planner/Floodplain Manager provided QL C and D subsurface utility services for various development projects within the city limits. Coordinated utility relocation services.
08/04 – 08/15	**City of Baton Rouge/Parish of East Baton Rouge, Baton Rouge, LA (Agency Proj. No. Unknown)** Chief of Wastewater Operations and Maintenance provided QL C and D subsurface utility services in conjunction with several Sanitary Sewer Overflow (SSO) projects. Coordinated QL B services when necessary. Coordinated utility relocation services and prepared utility relocation agreements.

SECTION 16 | STAFF EXPERIENCE

Resumes included in the following order:

Joshua Jackson, PE
Jose Santiago, PE
Amir Fouladgar, PE
Ishwarya Srikanth, PhD, PE
Chirag Chirag, PE
Qian (Cherry) Xoing, PE

Bookmarks added to pdf for ease of review.

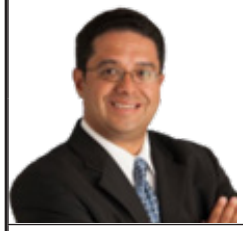


Firm employed by: EXP U.S. Services, Inc.			
Joshua Jackson, PE | *Bridge Studies*		Years of relevant experience with this employer	4
		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	B.S. Mechanical Engineering, 2006	Year registered	2021
Active registration number / state / expiration date	45617 / Louisiana / 9-30-2025	Discipline	Mechanical Engineering

Contract role(s) / brief description of responsibilities: Mr. Jackson will provide bridge studies 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 time years of experience specified in the applicable MPR(s).
2023 - Present	**IIJA Off-System Bridge Replacement District 58, LA:** As part of the Infrastructure Investment and Jobs Act, design and CEI of the replacement of 5 off-system fixed span bridges and the inspection of 10 bridges to determine final replacement list. Utilized survey and geotechnical investigations to select DOTD standard plans, specifications, and estimate. Provided bid documents and construction engineering during construction.
2021 - Present	**Gordie Howe International Bridge, Detroit, MI, USA:** Gordie Howe International is currently under construction and will be the longest main span cable stayed bridge in North America spanning between Detroit and Windsor Canada. Took multiple disciplines' designs and created a complete 3D model to check for interferences, clearances, fit up, determine required hardware, and provide additional 2D drawing details. This included routing of all electrical, tele-communications, fire protection, and drainage conduits inside a segmental pre-cast span.
2016 - 2020	**Veteran's Memorial Vertical Lift Bridge Rehabilitation Project | Kaukauna, WI:** Provided inspections of the machinery and vertical lift cables to provide recommendation reports as part of a special mechanical, structural, and electrical inspection. Executed the first safe and successful operation of the bridge in the last 20 years. Veteran's is a two lane 130' span vertical lift bridge located in Kaukauna, WI. The scope consisted of a detailed analysis of the current condition of the vertical lift cables ultimately requiring replacement, condition assessment of the speed reducer, gearing, shafts, bearings, and brakes. Responsible for the design, specifications, drawings, and cost estimate.
2019 - Present	**Racine Street Rolling Lift Bascule Bridge Replacement Project | Menasha, WI:** Responsible for design of the complete electro-mechanical span drive system for a new double leaf rolling lift bridge. The machinery room came with tight constraints for machinery fit so special personnel access was designed by the inclusion of access stairs designed into the bearing weldments allowing access over the pinion shafts. Only a single rotation of the pinion achieved span motion which will reduce contact tooth wear and extend the life of the rack and pinion. Produced drawings, the Technical Special Provisions (TSP), and cost estimate.
2020 - 2021	**Baseline Swing Bridge Rehabilitation Project | Chatham-Kent, ON:** Responsible for the mechanical rehabilitation including component replacement on the hydraulic power units and valves, replacement of the tail lock, rocker arm, and jack cylinders. Baseline is a hydraulic cylinder operated swing bridge near Wallaceburg, Ontario. Provided drawings, technical specifications, and cost estimates. Analyzed hydraulic oil samples and pressure test results to make additional maintenance program recommendations. Due to Canadian travel restrictions during the SARS-Cov-2 pandemic, performed a remote live video inspection to witness the hydraulic pressure and performance testing.
2016 - 2021	**Movable Bridge In-Depth Inspections:** Hopkins Bascule (4), Rolling Lift Bascule (3), Hydraulic Bascule (3), Vertical Lift (1)
2019 - 2021	**Hatchett Creek Double Twin Leaf Bascule Bridge Rehabilitation Project | Venice, FL:** Mechanical Engineer of Record responsible for the design of a mechanical rehabilitation of the hydraulic span drive components which included refurbishment of the existing hydraulic power units, control valves, filtration systems, replacement and adjustment of live load shoes, adjustments to balance condition, and complete replacement of the span locks.. Produced stamped drawings, the Technical Special Provisions (TSP), schedule and cost estimate.

	Firm employed by: EXP U.S. Services, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2017 - 2019	**8th Street Unbalanced Bascule Rehabilitation Project | Sheboygan, WI:** The 8th Street Bridge is a unique single leaf bascule with fully enclosed concrete deck operated by four hydraulic cylinders which directly actuate the non-counterweighted span by brute force and leverage. Responsible for the hydraulic system component rebuild specifications, installation and inspection procedures, writing the WIDOT Technical Special Provisions (TSP), plans, and provided the cost estimate for the removal and rehabilitation of 26" bore, 13' stroke hydraulic cylinders as well as the hydraulic power unit refurbishment. The complete servo-controlled hydraulic system was flushed and brought to near new specifications including an ISO cleanliness of 16/14/13. Volumetric efficiency and vibration tests were performed.
2018 - 2020	**Longboat Key Singe Leaf Bascule Bridge Rehabilitation Project | Longboat Key, FL:** Mechanical Engineer of Record responsible for the design of a temporary hydraulic span drive system for use while the electro-mechanical components of the bridge are rehabilitated. Components of the temporary system included temporary hydraulic cylinders that operated the bridge while the primary system was disconnected. Design of AASHTO compliant Hydraulic Power Unit, cylinders, the control system, and integration into the existing control system. Also designed modifications to replace portions of the span locks. Produced stamped drawings, specifications, and cost estimate.
2019 - 2020	**Arcelor Mittal Scherzer Rolling Lift Bascule Rehabilitation Project | Cleveland, OH:** Mechanical Engineer responsible for mechanical span drive rehabilitation including upgrades to auxiliary pneumatic drive system. This privately owned Scherzer connects two adjacent steel mills on either side of the Cuyahoga River. Rail locomotives that cross the span daily supply compressed air utilized to operate the auxiliary system. Dynamic Strain Gauge Balancing was utilized to adjust the span balance. Oil samples and gear inspection determined that the 75+ year old speed reducer could remain in service. The primary spur gear set was replaced due to cracks in the cast hub.
2016 - 2017	**Indian Rocks & Corey Causeway Double Twin Leaf Bascule Bridge Rehabilitation Project | Largo, FL:** Mechanical Responsible for the design, specifications, cost estimate, shop drawing review, and onsite inspection of the open loop hydraulic system replacement. Consisted of new hydraulic power units, valves, controls, span drive motor and planetary gear testing and minor rehabilitation to the speed reducer, open gearing, floating shafts, and bearings. Span lock hydraulic power units and actuators were replaced and standardized HPU's were used for reduced cost.
2007 - 2008	**12th Ave Bridge Replacement Project | Miami, FL:** Mechanical Engineer (EIT) for the construction contractor. Responsible for creating the 3D model and 2D deliverable shop drawings and as-builts for the machinery room and operator tower. Assisted with crane pick plans and temporary shoring and cribbing.

	Firm employed by: EXP U.S. Services, Inc.			
	**Jose Santiago, PE** | *Roadway & Drainage Studies*		Years of relevant experience with this employer	2
			Years of relevant experience with other employer(s)	24
	Degree(s) / Years / Specialization	B.S. / Civil Engineering	Year registered	2023
	Active registration number / state / expiration date	PE47773/ Louisiana / 09/30/2025	Discipline	Civil Engineering

Contract role(s) / brief description of responsibilities: Mr. Santiago will provide roadway and drainage studies 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 time years of experience specified in the applicable MPR(s).
2022 - Ongoing	**Noranda Parking Lot, Private Developer, Garysville, Louisiana:** This ongoing project scope consists of the redesign of +/- 120 stall parking lot serving an industrial facility to add parking spaces, formalize traffic movements, and implement a new pavement material designed for heavy duty traffic applications. The project is being delivered with an expedited schedule to meet client needs. EXP services provided include civil engineering design and construction administration.
2023	**SR 5 US 1/Broadway from 59th Street to Northlake Blvd. | FDOT District 4:** Mobility project in Palm Beach County adding bicycle lines in a 3.1-mile corridor along SR 5. Responsibilities included the final roadway design, updating the engineering report, production of roadway and signing and pavement marking plans, development of engineering estimate, and specifications. This design included the addition of bicycle lanes and a shared-use path.
2012 - 2019	**SR 710/Warfield Blvd. | FDOT District 4:** Major reconstruction project for SR 710/Warfield Blvd. from FPL Martin Power Plant Road to CR 609/Allapattah Road. Responsibilities included the final roadway design, including establishing a typical section, roadway horizontal and vertical geometry, engineering report, drainage analysis and report, production of roadway and drainage plans, development of engineering estimate, and specifications. This design included bicycle lanes and a shared-use path.
2016 - Ongoing	**St. Lucie County's Advanced Transportation Management System (ATMS) Phase 1 | FDOT District 4:** Development of a Design/Build Criteria Package for the design, construction and integration of St. Lucie County's ATMS Phase 1 project, which consists of installing a Fiber-Optic Communications Network for 46 signalized intersections, installing and integrating the ATMS software, installing and integrating 40 Closed Circuit Television (CCTV) cameras and travel-time detection devices. Responsibilities included project management of the development of the RFP and Concept Plan Set for the Design/Build Criteria Package
2016 - 2017	**Hollywood Blvd. Complete Streets | FDOT District 4:** Decorative signalization and lighting improvements for this Complete Streets project along Hollywood Blvd. from City Hall Circle to Dixie Highway. This project entailed the reconstruction of Hollywood Blvd. into a multimodal facility for automobiles, bicycles, and pedestrians. Responsibilities included the production of signalization and lighting component plans.
2011 - 2017	**SR 882/Forest Hill Boulevard Intersection | FDOT District 4:** Intersection safety improvement project at the Forest Hill Boulevard and South 16th Place. This project included a new mast system, internally illuminated signs, pedestrian signalization, and a fully actuated video detection system. It also had a median modification that required an access management review and a public hearing.
2018 - ONGOING	**Atlantic Shores Boulevard Roadway Improvements | Hallandale Beach:** Roadway improvements are intended to increase safety and improve the roadway and streetscapes on Atlantic Shores Boulevard. This is a Complete Streets project that addresses on-street parking and creates a more pedestrian-friendly corridor by implementing wider sidewalks.

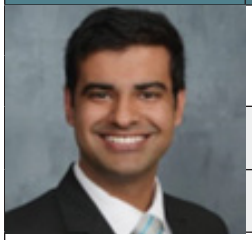
	Firm employed by: EXP U.S. Services, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2016 - 2017	**Improvements for the Turnpike Mainline | Florida Turnpike Enterprise:** Milling, resurfacing, and safety and design upgrade improvements for the Turnpike Mainline (SR 91) near Lake/Sumter County Line. The scope included reviewing and implementing improvements identified in the ERCAR, milling and resurfacing, evaluating pavement conditions and developing pavement design and MOT scheme, repairing all guardrail openings, and replacing the non-compliant signing. Responsible for signing and pavement marking design.
2016 - 2017	**Indian Rocks & Corey Causeway Double Twin Leaf Bascule Bridge Rehabilitation Project | Largo, FL:** Mechanical Responsible for the design, specifications, cost estimate, shop drawing review, and onsite inspection of the open loop hydraulic system replacement. Consisted of new hydraulic power units, valves, controls, span drive motor and planetary gear testing and minor rehabilitation to the speed reducer, open gearing, floating shafts, and bearings. Span lock hydraulic power units and actuators were replaced and standardized HPU's were used for reduced cost.
2007 - 2008	**12th Ave Bridge Replacement Project | Miami, FL:** Mechanical Engineer (EIT) for the construction contractor. Responsible for creating the 3D model and 2D deliverable shop drawings and as-builts for the machinery room and operator tower. Assisted with crane pick plans and temporary shoring and cribbing.
2016	**Adaptive Signal Control Technology Implementation | FDOT District 4:** Implementation and integration of an adaptive signal control system (Centracs) along SR 5/US 1 (12 intersections) within the City of Fort Pierce. Responsibilities included project management, roadway and signalization design, utility coordination, and public involvement.

	Firm employed by: EXP U.S. Services, Inc.			
	Amir Fouladgar, PE | *Cost Estimating*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	38
	Degree(s) / Years / Specialization	B.S. Mechanical Engineering, 2006	Year registered	1985
	Active registration number / state / expiration date	#99653/Florida/3-31-2017	Discipline	Structural Engineering
Contract role(s) / brief description of responsibilities: Mr. Fouladgar will provide cost estimating services and cost estimation of complex bridges.				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).			
1999-2000	**Underwater Bridge Inspection Services, Statewide, Maryland** | Provided underwater bridge inspection services through an open-end contract. Assignments included underwater inspections of 31 bridges in eastern Maryland, ranging from single-span structures over streams to major river crossings, and involved diverse foundation types, including concrete, steel H-piles, timber piles, and spread footings. Baker assigned a team leader to oversee the inspection team, developed the project schedule, and prepared the final inspection reports.			
2008-2011	**VDOT Bridge Safety Inspection, Northern Virginia and Culpepper Districts** | Principle-in-Charge & QA/QC Manager for a $2 million per year for three years open-end contract involving NBIS inspection, deck evaluations, and bridge load ratings.			
2010-2012	**MoDOT Safe & Sound Bridges Improvement Program, Statewide, Missouri** | QA/QC Manager for replacement design of over 50 bridges, out of this $484M Design-Built project including replacement of 554 bridges throughout the State of Missouri. MoDOT created a statewide program, known as safe & Sound, in order to partner with contractors and consultants and address several of the state's deficient bridges at one time. The majority of the bridge replacements involve stream crossings, so hydraulic considerations governed the selection of structure types and span arrangements for many sites, although geotechnical and structural considerations were also evaluated. Most sites used precast, prestressed concrete box beams and cored slabs on simple spans. Structure type selections and span arrangements were determined for each site during initial scoping by the design-build team, and these selections were re-examined frequently based on new data that was obtained from surveys and soil borings at each site as the program progressed. Standard substructure plans were also developed to account for varying geotechnical conditions throughout Missouri.			
2012-2013	**LADOTD Load Rating of 230 Unrated Bridges, Statewide |** Principal-in-Charge providing all the necessary engineering and related services required for performing the structural load rating for about 250 unrated bridges located statewide using the Load and Resistance Factor Rating (LRFR) method in accordance with AASHTO Manual of Bridge Evaluation and LADOTD The Policies and Guidelines for Bridge Rating and Evaluation. The bridge superstructures have been rated using AASHTOWARE Virtis load rating software. For rating of other superstructures that are beyond the capability of Virtis, other analysis software approved by the Department has been used. MDX software has been used for curved steel girder superstructure. For load rating of pile bents and piers, RCPier and LUSAS software have been used depending on the application. The scope included plan and document review, structural modeling and analysis of the bridge, load rating, and preparation of load rating reports and recommendations.			
2013-2015	**LADOTD Load Rating of Six Truss Bridges, Statewide Louisiana |** The Principal-in-Charge of activities to perform load rating of the major complex truss bridges in the state with a total fee of $4 M. The main focus of the work is in-depth inspection and load rating of the truss components including gusset plates & connections using AASHTO LRFR method. The structures involved in the project comprise of the main truss span and a variety of structure types that are also to be load rated. The main truss rating involves 3D Finite Element modeling and analysis using LUSAS software and load rated for all the 16 various state vehicles using customized program routines. The remaining structures are analyzed as 2D models using AASHTO – VIRTIS software. Beyond the capabilities of VIRTIS several software routines are customized and utilized to determine the rating. Gusset plate and its connections are analyzed as per FHWA Guidelines on Load rating of gusset plates for Truss bridges.			

	Firm employed by: EXP U.S. Services, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2002-2004	**LADOTD LA 1 Improvements from Golden Meadow to Fourchon, Louisiana |** Project Manager / Project Director for a multi-disciplinary team that was responsible for the preliminary and final design of a new, 17-mile long tolled highway facility on elevated structure in LaFourche Parish. The project included a fixed-span, high-level bridge over the navigable Bayou LaFourche and Boudreaux Canal at Leeville and four interchanges – two on structure. The high-level bridge with spliced pre-cast/pre-stressed concrete girders is a three-span unit (260'-350'-260'); with the 350-foot span being the longest spliced girder in the country. The low level bridges are designed as end-end construction / top-down technique. The entire project scope included total project management of environmental permitting, a geotechnical investigation, pile testing, bridge and roadway design, vessel impact design, a toll system, and ITS design.
1987-1989	**Virginia Department of Transportation, I-264 Bridge Widening, Norfolk, Virginia |** Project Engineer responsible for the design plans that were needed for eight, dual structures and the replacement of a pedestrian bridge on a three-mile stretch of urban I-264. The structures required widening to facilitate the construction of an HOV lane for each direction of I-264. The project also included new parapets and joint closures, along with MOT plans. One of the dual concrete structures over Broad Creek required the acquisition of a Section 404 permit for the discharge of dredged or fill material into United States waters.
2005-2007	**LADOTD Mississippi River Gulf Outlet Bridge – New Orleans, Louisiana |** Principal-in-Charge for an in-depth inspection and construction managements of this 6,620-foot-long steel truss bridge in Orleans Parish. The bridge is on Route LA 47 in Orleans Parish, and consists of three through truss main bridge spans with a total length of 1,248 feet; eleven south approach steel girder spans with a total length of 1,652 feet; eleven north approach steel girder spans with a total length of 1,652 feet; ten south approach concrete girder spans with a total length of 800 feet; ten north approach concrete girder spans with a total length of 790 feet; twelve south approach concrete slab spans with a total length of 240 feet; and twelve north approach concrete slab spans with a total length of 240 feet. The inspection involved the use of special access equipment such as a UB-60 snooper and bucket truck, non-destructive acoustic emission testing, and coating evaluations. Required the preparation of a bridge inspection report and supporting documentation such as updating the SI&A date and PONTIS element conditions
1995-1998	**Virginia Department of Transportation, I-64 at Hampton Roads Bridge-Tunnel (HRBT), Hampton and Norfolk, Virginia |** Lead Design Engineer and managed contract administration for the preliminary and final design associated with a widening of approximately 10,000 feet of approach structure to the Hampton Roads Bridge Tunnel. The structure is a multi-span, reinforced concrete deck, prestressed concrete beam structure that is supported by prestressed hollow cylinder piles. The project included the installation of cathodic protection with a latex modified overlay, new parapets, joint closures, and bearing replacement. MOT plans and permit drawings were also developed.

	Firm employed by: EXP U.S. Services, Inc.			
	**Ishwarya Srikanth, PhD, PE** | *Bridge Studies*		Years of relevant experience with this employer	4
			Years of relevant experience with other employer(s)	8
	Degree(s) / Years / Specialization	MS, Structural Engineering: PhD Transportation & Environmental Engineering	Year registered	2024
	Active registration number / state / expiration date	#98454/Florida/February 2027	Discipline	Mechanical Engineering
Contract role(s) / brief description of responsibilities: Ms. Ishwarya will provide bridge studies 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 time years of experience specified in the applicable MPR(s).
09/23-12/23	**Rehabilitation of St. Louis Lambert International Airport Departures Drive Bridge, Missouri |** This project involves the rehabilitation of the South abutment of the two-span highly skewed post-tensioned multi-girder concrete bridge. The girders are integral with the end diaphragm. Provided alternate bearing arrangement design, while retaining the existing deteriorating bearings as-is to minimize the disruption to the public. Performed finite element analysis to verify the change in the pile reactions due to change in the placement of the bearings longitudinally are within acceptable limits and provided design solution.
12/22-ONGOING	**MTA C&D Rockaway Line Resiliency and Rehabilitation Design Build, Queens, NY |** The Rockaway Line connects Queens with the Rockaway peninsula. This project includes design and construction for viaduct rehabilitation at the Hammels Wye Campus and viaduct repairs along the east and west branches. Also includes the design and installation of flood mitigation elements at the locations along the Rockaway Line, as well as the design and installation of a new signal tower, track crossover and related traction-power, signal system and utility work at the Beach 105th Street Station.
10/21-04/22	**American Legion Bridge I-270 to I-70 Traffic Relief Plan Phase South A Design-Build Project, Maryland DOT |** Submitted structural analysis results and design calculations for 4 plate girder bridge superstructure and substructure components as per AASHTO LRFD 8th edition and MDOT specifications. Delivered preliminary design drawings for superstructure.
2022	**Rehabilitation and Superstructure Reconstruction of I-74 over Spoon River Plate Girder Bridge, Illinois DOT |** Carried out detailed review of design calculations for deck design, splice design, bearing design, design of shear studs, girder and deck slab elevations. Carried out superstructure analysis in MDX based on AASHTO LRFD and LFD specifications. Estimated rebar quantities for superstructure components. Carried out pier cap analysis using strut and tie method to verify its capacity for the current traffic load demands.
2022	**Reconstruction of I-57 Single Point Urban Interchange, Illinois DOT |** Performed line girder analysis and design of superstructure. Carried out 2D grid analysis to check the sufficiency of Standard IDOT cross frames. The bridge skewness and the relatively longer central span led to increased shear and bending forces at the bracing locations. Provided custom design for cross frames to avoid bottom chord failure in tension and failure of diagonals in compression. Performed deck design, flexural resistance calculations, provided girder moment and reaction tables.
2022	**Midway Airport Biennial Bridge Inspections and Load Rating, Illinois DOT |** Performed load rating for 7 steel plate girder bridges of complex geometry using MDX. Delivered Structure Load Rating Summary, Supplementary calculation package and Analysis files.

	Firm employed by: EXP U.S. Services, Inc.			
	**Chirag Chirag, PE** | *Bridge Studies*		Years of relevant experience with this employer	1
			Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization	M.S. /Structural Engineering	Year registered	2021
	Active registration number / state / expiration date	PE99653/ Florida / 03/31/2027	Discipline	Structural Engineering

Contract role(s) / brief description of responsibilities: Mr. Chiraq will provide bridge studies 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 time years of experience specified in the applicable MPR(s).
2023 - Ongoing	**Project Engineer, LaDOTD IIJA Off-System Bridges, Louisiana:** Analyzed box culverts and reinforced slab bridges to be installed at various sites across Louisiana. Helped with managing and coordination with LADOTD and subconsultants. Performed Hydraulics study using HEC-RAS. Also, helped in drafting plans for the bridges/ culverts via MicroStation.
2024	**Project Engineer, New Orleans Levee Air Bridge, New Orleans, Louisiana:** Analyzed and designed a proposed air bridge to pass over N.O. levee. Performed calculations to verify serviceability criteria.
2024	**Project Engineer, Manor Lane Culvert, Florida (2024):** Analyzed the box culvert for resistance against excessive earth surcharge from oncoming traffic load. Verified the design and helped with sketching the plan set.
2021 - 2022	**Project Engineer, College Drive, Baton Rouge, Louisiana:** Analyzed the new bridge widening proposed over the intersections of I-10 and I-12. Used OpenBridge and Staad.Pro in tandem with MATLAB to perform finite element modeling while back-checking with AASHTO.
2023	**Project Engineer, Nashville Wharf, New Orleans, Louisiana (2023):** Analyzed a 2-way slab for an extraordinarily large Wharf structure for remediation purposes using FEM models. Also, helped with analysis of the foundation for mooring and berthing energies. Provided recommendations for corrosion protection via cathodic protection and pile covers.
2021 - 2022	**Project Engineer, College Drive, Baton Rouge, Louisiana (2021-2022):** Analyzed the new bridge widening proposed over the intersections of I-10 and I-12. Used OpenBridge and Staad.Pro in tandem with MATLAB to perform finite element modeling while back-checking with AASHTO.
2022 - 2023	**Project Engineer, Earhart Expressway, New Orleans, Louisiana:** Designed and analyzed a new bridge ramp merging into Earhart Expressway. Used OpenBridge and Staad.Pro in tandem with MATLAB to perform finite element modeling while back-checking with AASHTO. Designed the cross frames and provided solutions for constructions over existing abandoned bridge bent.
2022	**Project Engineer, Coca-Cola Building, New Orleans, Louisiana:** Analyzed the existing frame and designed the new frame for the second floor to incorporate a swimming pool. Also, worked on the foundation to design new grade beams. Provided and sketched structural item details for the structural plan set.
2021 - 2022	**Staff Engineer, Causeway Boulevard Circle, New Orleans, Louisiana:** Performed calculations for bridge lifting operation via hydraulic jacking. Reviewed shop drawings and provided solutions for replacing bridge seats.

	Firm employed by: EXP U.S. Services, Inc.			
	**Qian (Cherry) Xoing, PE** | *Roadway & Drainage Studies*		Years of relevant experience with this employer	3
			Years of relevant experience with other employer(s)	20
	Degree(s) / Years / Specialization	MS, Civil Engineering (specializing in Transportation)	Year registered	2008
	Active registration number / state / expiration date	PE6270029/MD/09-2026	Discipline	Transportation Engineering

Contract role(s) / brief description of responsibilities: Ms. Xoing will provide roadway and drainage studies 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 time years of experience specified in the applicable MPR(s).
2023	**Northeast Commuter Rail STOPS Model/RTC Model Review, Miami-Dade Transit, Miami, FL |** Lead STOPS Model and RTC Rail Simulation Model Reviewer - Ms. Xiong evaluated the STOPS model, which was developed by another consultant for Northeast Corridor. The purpose of this review is to verify the accuracy and appropriateness of the model parameters used for calibration and Park-and-Ride (PnR) modeling, as well as the network coding of the project stations. It is important to ensure that any deviations from the default parameter values are supported by recent survey data or other observed data in the region. During the review, discrepancies between the actual count data and the modeled numbers were identified. Suggestions were provided to enhance the model's accuracy and improve its results. Additionally, the reports of the RTC model (rail traffic simulation) were thoroughly examined to ensure the reasonableness of the parameters, including network coding, operating parameters, and meet-pass behavior, and the train capacity (determined by train consist and operating characteristics such as headway and run time) provided by the model meet the future demand. In addition, the Stress Test scenarios were also reviewed, and suggestions were put forth to ensure the robustness/ resiliency of design and operations.
2015	**DVRPC Model Improvement and SEPTA Thorndale Extension Ridership Forecasting, Philadelphia, PA |** Ms. Xiong served as the project manager on this project to help Chester County, SEPTA, Amtrak and DVRPC to evaluate various Thorndale/Paoli line extension operations alternatives in year 2035 to meet future demand increase in Chester County and to understand the impact of such extension on trip distribution and mode shift. Ms. Xiong worked closely with the transit agency Southeastern Pennsylvania Transportation Authority (SEPTA) to test the impact of different operating frequencies (between Parkesburg/Atglen and Philadelphia Center City) and route alignment on ridership and operating costs. Such sensitivity analysis can help the transit agency to understand the feasibility of rail extension. Ms. Xiong also reviewed and improved Amtrak modeling components in the DVRPC regional demand model and made necessary short-term improvements.
2016 - 2020	**Veteran's Memorial Vertical Lift Bridge Rehabilitation Project | Kaukauna, WI:** Provided inspections of the machinery and vertical lift cables to provide recommendation reports as part of a special mechanical, structural, and electrical inspection. Executed the first safe and successful operation of the bridge in the last 20 years. Veteran's is a two lane 130' span vertical lift bridge located in Kaukauna, WI. The scope consisted of a detailed analysis of the current condition of the vertical lift cables ultimately requiring replacement, condition assessment of the speed reducer, gearing, shafts, bearings, and brakes. Responsible for the design, specifications, drawings, and cost estimate.
2019 - Present	**Racine Street Rolling Lift Bascule Bridge Replacement Project | Menasha, WI:** Responsible for design of the complete electro-mechanical span drive system for a new double leaf rolling lift bridge. The machinery room came with tight constraints for machinery fit so special personnel access was designed by the inclusion of access stairs designed into the bearing weldments allowing access over the pinion shafts. Only a single rotation of the pinion achieved span motion which will reduce contact tooth wear and extend the life of the rack and pinion. Produced drawings, the Technical Special Provisions (TSP), and cost estimate.

	Firm employed by: EXP U.S. Services, Inc.
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
2017-2018	**Sutphin-Archer Blvd. Station Enhancement Feasibility Study, New York, NY.** Passenger flow analysis task lead to support feasibility study, preliminary engineering design and the final design for the Enhancement of Sutphin-Archer Station Interconnections to the LIRR/AirTrain Terminal Complex in Jamaica Queens. High-resolution 3D pedestrian models were developed to analyze all design alternatives and provide feedback to architects and structural design team for design optimization purposes. The model helped with the development of construction phasing plan to minimize the negative impact on passengers. Based on the pedestrian modeling results the concepts were developed and vetted for the most optimal and constructible option.
2020-2022	**Heavy Rail Extension RTC Simulation Modeling, Broward County Transit, FL.** Lead RTC Modeler (2020-2022). Ms. Xiong developed the baseline condition RTC simulation modeler for Metrorail in Miami and calibrated/validated the model based on total run time and the number of trains needed (all trains are linked). Various future year service plans were simulated with future infrastructure expansion. Constraints such as minimum turnaround time, round trip travel time, station dwell time as well as train spacing were taken into consideration during the feasibility analysis of all scenarios. Service perturbations were also simulated (sensitivity analysis) to review the robustness of the infrastructure design and the capacity plans and identify potential fatal flaws.
2019	**The Port Authority Bus Terminal Replacement Simulation Model Development Review/Oversight, New York |** Technical Advisor/Pedestrian Simulation Modeling Expert - Worked as the Port Authority's technical advisor/ pedestrian simulation modeling expert and reviewed the simulation model that was developed by another consultant. Conducted thorough review, identified errors, and provided suggestions on how to improve the model setup to better represent pedestrian behavior. The model parameters and pedestrian behaviors near express elevators and boarding gates were thoroughly checked to ensure the model can provide meaningful input in decision making.
2015	**Multimodal Corridor Enhancement TIGER VI Grant Project, Champaign-Urbana, IL |** Transit Operations/ Travel Demand Model/ Micro-Simulation Specialist - Served as transit operations/ travel demand model/ micro-simulation specialist and providing transit support for improvements in Champaign-Urbana, IL. Use macro-micro integration approach to understand existing and future year travel pattern of all modes in the study area. Performing alternative analysis using high resolution micro-simulation to show how bus-only lanes may improve efficiency and suggest improvements at segment and intersection level. Using simulations of vehicles, bikes, and pedestrians to support implementation of complete street concept.
2017	**The Quantification of Economic Benefit Resulting from Public Investments in Transportation for Virginia Department of Rail and Public Transportation (DRPT), Washington DC and VA |** Travel Deman Modeling Specialist - Ms. Xiong managed the team to provide travel demand modeling support on the economic benefit analysis for Virginia Department of Rail and Public Transportation (DRPT) in 2017. Tasks provided by TYLI include: 1) Thorough review of VDOT and MWCOG travel demand model to determine specific transit modes to be included in both base year and future year for alternative analysis; 2) Development of definition of scenarios based on various transit operations characteristics, study years and different times of day; 3) Development of transit service change scenarios using headway as the key variable; 4) Travel demand model run and output data compilation. Performance measures such as passenger miles (hours) traveled by transit sub-mode, VMT/VHT by vehicle type, transit share etc.; 5) SHRP2-C11 reliability Analysis data Preparation. Based on INREX corridor peak period congestion data, Rt-7, I-95, I-395 and I-66 were selected for travel time reliability analysis. Input data such as free flow speed, number of lanes, capacity, and passenger vehicle/commercial vehicle value of time were extracted from the model.

SECTION 16 | STAFF EXPERIENCE

APS Engineering and Testing

Resumes included in the following order:

Sergio Aviles, P.E., M.ASCE
Sairam Eddanapudi, P.E., M.E.
Surendra Pathak, P.E., M.S.

Bookmarks added to pdf for ease of review.

	Firm employed by: APS Engineering and Testing			
APS Engineering and Testing	**Sergio Aviles, P.E., M.ASCE** | *Geotechnical Engineer*		Years of relevant experience with this employer	12
			Years of relevant experience with other employer(s)	10
	Degree(s) / Years / Specialization	BS | 2001 | Civil Engineering	Year registered	2007
	Active registration number / state / expiration date	0033571 | LA | 03/31/2026	Discipline	Civil

Contract role(s) / brief description of responsibilities: Geotechnical Engineer

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
06/20-Present	**Rural Bridge Replacement Initiative:** The scope includes geotechnical investigation and design for the replacement of 60 structures on the LA state highway system. Geotechnical investigation consists of drilling, laboratory testing, soil classification and site characterization. Engineering analysis includes slope stability analysis (when applicable) and pile capacity analysis for foundations to support new bridge structures. Mr. Aviles is the Supervisor-Engineer to the Geotechnical Investigations.
09/19-10/24	**Project No. H.0041005.5 and .6: I-10 LA415 to Essen Lane on I-10 and I-12:** The scope included drilling and sampling a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the water borings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compressions, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. A P S is currently providing PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles is the Project Manager to the Design Team.
11/22-05/24	**Project No. H.001344 US 190: LA 437 to US 190 BUS:** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for foundation recommendations. The scope also includes conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed structures. A P S also provided PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles was the Project Manager for the Project Design Team.
01/22-05/24	**Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge:** A P S was selected with the winning team for the Design of the Diversion CMAR project. A P S performed the Geotechnical Design for the project. The scope also included conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed roadway structures. A P S performed a total of 4 PDAs during construction monitoring. Mr. Aviles was the Project Manager for the Project Design team.
09/21-05/24	**Port Hudson-Pride Road (LA-964 – LA-19):** The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Aviles was the Manager to Design Team.
11/19-12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85:** A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendations. Mr. Aviles was the Manager to Geotechnical Design Team.
12/21-09/22	**Ward Creek at Seigan Ln:** The scope services for this project included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. A P S drilled two (2) deep borings and tested recovered soils for strength and engineering characteristics. Geotechnical reporting included slope stability analysis of the proposed channel, as well as general construction and erosion recommendations. Mr. Aviles was the Manager to the Geotechnical Team.

	Firm employed by: APS Engineering and 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 time years of experience specified in the applicable MPR(s).
03/21–11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.):** The scope of services for this project included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. A P S drilled (2) soil borings to 110 feet deep each at Elbow Bayou Crossing, three (3) soil borings to 80 feet deep each at highest fill placement locations, one (1) soil boring to 20 feet deep at traffic light intersection and 32 soil borings to six (6) feet deep each for pavement at 700 feet intervals at selected boring locations. A P S tested recovered soils for strength and engineering characteristics. The geotechnical report contained pavement and deep foundation recommendations, fill area settlement recommendations, and general construction recommendations. Mr. Aviles was the Manager to the Geotechnical Team.
01/21–04/22	**Bluebonnet Boulevard (Perkins Road-Picardy Avenue):** The purpose of the project was widening of Bluebonnet Boulevard at selected locations, addition of pedestrian walkways, replacement of existing bridge over Dawson Creek and addition of green infrastructure. The scope of services included subsurface exploration of conditions at the site to enable an evaluation for the proposed pavement. A P S drilled nine (9) pavement borings to six (6) feet deep from the top of existing subgrade material, two (2) soil borings to a depth of 10 feet each for the green infrastructure, and two borings to a depth of 100 feet each for the bridge. The scope of services also included conducting laboratory tests on selected samples recovered from the soil borings. The geotechnical report contained rigid pavement recommendations, deep foundation recommendations, green infrastructure recommendations, as well as site preparation and general construction recommendations. Mr. Aviles was the Manager to the Geotechnical Team.
09/21–05/24	**Port Hudson-Pride Road (LA-964 – LA-19):** The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Aviles was the Manager to Design Team.

	Firm employed by: APS Engineering and Testing			
APS Engineering and Testing	**Sairam Eddanapudi, P.E., M.E.** | *Geotechnical Engineer*		Years of relevant experience with this employer	12
			Years of relevant experience with other employer(s)	9
	Degree(s) / Years / Specialization	MS/2002/Civil Engineering BS/1999/Civil Engineering	Year registered	2009
	Active registration number / state / expiration date	0035129/ LA / 03-31-2026	Discipline	Civil

Contract role(s) / brief description of responsibilities: Geotechnical Engineer

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
06/20–Present	**Rural Bridge Replacement Initiative:** The scope includes geotechnical investigation and design for the replacement of 60 structures on the LA state highway system. Geotechnical investigation consists of drilling, laboratory testing, soil classification and site characterization. Engineering analysis includes slope stability analysis (when applicable) and pile capacity analysis for foundations to support new bridge structures. Mr. Sai is the Chief Engineer to the Geotechnical Investigations.
09/19–10/24	**Project No. H.0041005.5 and .6: I-10 LA415 to Essen Lane on I-10 and I-12:** The scope included drilling and sampling a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the water borings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compressions, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. A P S is currently providing PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles is the Project Manager to the Design Team.
11/22–05/24	**Project No. H.001344 US 190: LA 437 to US 190 BUS:** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for foundation recommendations. The scope also includes conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed structures. A P S also provided PDA instrumentation, testing, and CAPWAP analysis. Mr. Sai is the Chief Engineer for the Project Design Team.
01/22–05/24	**Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge:** A P S was selected with the winning team for the Design of the Diversion CMAR project. A P S performed the Geotechnical Design for the project. The scope also included conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed roadway structures. A P S performed a total of 4 PDAs during construction monitoring. Mr. Sai was the Chief Engineer for the Project Design Team.
09/21–05/24	**Port Hudson-Pride Road (LA-964 – LA-19):** The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Sai was the Chief Engineer for the Project Design Team.
11/19–12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85:** A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendations. Mr. Sai was the Chief Engineer for the Project Design Team.
12/21–09/22	**Ward Creek at Seigan Ln:** The scope services for this project included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. A P S drilled two (2) deep borings and tested recovered soils for strength and engineering characteristics. Geotechnical reporting included slope stability analysis of the proposed channel, as well as general construction and erosion recommendations. Mr. Sai was the Chief Engineer to the Geotechnical Team.

	Firm employed by: APS Engineering and 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 time years of experience specified in the applicable MPR(s).
03/21–11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.):** The scope of services for this project included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. A P S drilled (2) soil borings to 110 feet deep each at Elbow Bayou Crossing, three (3) soil borings to 80 feet deep each at highest fill placement locations, one (1) soil boring to 20 feet deep at traffic light intersection and 32 soil borings to six (6) feet deep each for pavement at 700 feet intervals at selected boring locations. A P S tested recovered soils for strength and engineering characteristics. The geotechnical report contained pavement and deep foundation recommendations, fill area settlement recommendations, and general construction recommendations. Mr. Sai was the Chief Engineer to the Geotechnical Team.
01/21–04/22	**Bluebonnet Boulevard (Perkins Road-Picardy Avenue):** The purpose of the project was widening of Bluebonnet Boulevard at selected locations, addition of pedestrian walkways, replacement of existing bridge over Dawson Creek and addition of green infrastructure. The scope of services included subsurface exploration of conditions at the site to enable an evaluation for the proposed pavement. A P S drilled nine (9) pavement borings to six (6) feet deep from the top of existing subgrade material, two (2) soil borings to a depth of 10 feet each for the green infrastructure, and two borings to a depth of 100 feet each for the bridge. The scope of services also included conducting laboratory tests on selected samples recovered from the soil borings. The geotechnical report contained rigid pavement recommendations, deep foundation recommendations, green infrastructure recommendations, as well as site preparation and general construction recommendations. Mr. Sai was the Chief Engineer to the Geotechnical Team.
03/15-04/15	**Holly Drive Bridge Replacement- St. Tammany Parish:** The scope included geotechnical investigation for the replacement of a bridge structure in Covington, Louisiana. A P S performed piles LRFD vertical resistance analyses for square PPC piles with sizes ranging 16-inch, 18-inch and 24-inches, roadway design, and culvert design. Mr. Sai was the Project Manager for the Geotechnical Investigation.

	Firm employed by: APS Engineering and Testing			
APS Engineering and Testing	**Surendra Pathak, P.E., M.S.** | *Geotechnical Engineer*		Years of relevant experience with this employer	11
			Years of relevant experience with other employer(s)	10
	Degree(s) / Years / Specialization	MSCE/ 2013/ Civil Engineering BE/ 2007/ Civil Engineering	Year registered	2019
	Active registration number / state / expiration date	0043487/ LA/ 09-03-2025	Discipline	Civil
Contract role(s) / brief description of responsibilities: Geotechnical Engineer				

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time years of experience specified in the applicable MPR(s).
06/20–Present	**Rural Bridge Replacement Initiative:** The scope includes geotechnical investigation and design for the replacement of 60 structures on the LA state highway system. Geotechnical investigation consists of drilling, laboratory testing, soil classification and site characterization. Engineering analysis includes slope stability analysis (when applicable) and pile capacity analysis for foundations to support new bridge structures. Mr. Pathak is the Project Manager to the Geotechnical Investigations.
09/19–10/24	**Project No. H.0041005.5 and .6: I-10 LA415 to Essen Lane on I-10 and I-12:** The scope included drilling and sampling a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the water borings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compressions, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. A P S is currently providing PDA instrumentation, testing, and CAPWAP analysis. Mr. Pathak is the Senior Engineer for the Project Design Team.
11/22–05/24	**Project No. H.001344 US 190: LA 437 to US 190 BUS:** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for foundation recommendations. The scope also includes conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed structures. A P S also provided PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles was the Project Manager for the Project Design Team.
01/22–05/24	**Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge:** APS was selected with the winning team for the Design of the Diversion CMAR project. A P S performed the Geotechnical Design for the project. The scope also included conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed roadway structures. A P S performed a total of 4 PDAs during construction monitoring. Mr. Pathak was the Senior Engineer for the Project Design Team.
09/21–05/24	**Port Hudson-Pride Road (LA-964 – LA-19):** The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Pathak was the Senior Engineer for the Project Design Team.
11/19–12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85:** A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendations. Mr. Pathak was the Senior Engineer for the Project Design Team.
12/21–09/22	**Ward Creek at Seigan Ln:** The scope services for this project included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. A P S drilled two (2) deep borings and tested recovered soils for strength and engineering characteristics. Geotechnical reporting included slope stability analysis of the proposed channel, as well as general construction and erosion recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.

	Firm employed by: APS Engineering and 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 time years of experience specified in the applicable MPR(s).
03/21–11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.):** The scope of services for this project included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. A P S drilled (2) soil borings to 110 feet deep each at Elbow Bayou Crossing, three (3) soil borings to 80 feet deep each at highest fill placement locations, one (1) soil boring to 20 feet deep at traffic light intersection and 32 soil borings to six (6) feet deep each for pavement at 700 feet intervals at selected boring locations. A P S tested recovered soils for strength and engineering characteristics. The geotechnical report contained pavement and deep foundation recommendations, fill area settlement recommendations, and general construction recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.
01/21–04/22	**Bluebonnet Boulevard (Perkins Road-Picardy Avenue):** The purpose of the project was widening of Bluebonnet Boulevard at selected locations, addition of pedestrian walkways, replacement of existing bridge over Dawson Creek and addition of green infrastructure. The scope of services included subsurface exploration of conditions at the site to enable an evaluation for the proposed pavement. A P S drilled nine (9) pavement borings to six (6) feet deep from the top of existing subgrade material, two (2) soil borings to a depth of 10 feet each for the green infrastructure, and two borings to a depth of 100 feet each for the bridge. The scope of services also included conducting laboratory tests on selected samples recovered from the soil borings. The geotechnical report contained rigid pavement recommendations, deep foundation recommendations, green infrastructure recommendations, as well as site preparation and general construction recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.

SECTION 17 | FIRM EXPERIENCE

Bookmarks added to pdf for ease of review.

17. Firm Experience:

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**Draft EIS for the I-10 Mobile River Bridge**	Firm responsibility (prime or sub?)	Prime
Project number	n/a	Owner's name	ALDOT
Project location	Mobile and Baldwin Counties, AL	Owner's Project Manager	Terry Robinson
Owner's address, phone, email	1409 Coliseum Boulevard, Montgomery, AL, 334-242-6162		
Services commenced by this firm (mm/yy)	09/99	Total consultant contract cost ($1,000's)	N/A
Services completed by this firm (mm/yy)	08/14	Cost of consultant services provided by this firm ($1,000's)	$894

Volkert prepared the Environmental Assessment, approved by the FHWA, and completed the environmental and engineering studies for the Draft EIS, identifying the preferred alternative. Extensive agency and public involvement programs have included neighborhood workshops, project newsletters, multiple public meetings, bridge aesthetic design workshops, inter-agency coordination meetings, presentations, and development and maintenance of the project information website for ALDOT. The project corridor crosses the Mobile Estuary delta and entails the potential for large scale impacts to wetlands associated with a fertile estuarine system. The project consisted of a corridor study, including functional design, toll evaluation, and environmental documentation for a new bridge to cross the Mobile River from I-10/Broad Street to the I-10/US 98 Interchange. The entire project is a distance of approximately 11 miles, with approximately 8 miles of new bridge structure being developed. In addition to engineering and environmental studies on the new bridge and its alignments, the project also included studies for widening the I-10 "Bayway" across 7 miles of Mobile Bay. The scope included development of a modified model (TRANPLAN) of the Mobile urban area to include new traffic zones in Baldwin County. The traffic model was used to project year 2025 traffic volumes, both with and without the bridge. The traffic engineering consisted of a license plate survey to obtain distribution, traffic modeling to obtain projected year 2020 volumes, determining required clearances, and coordinating with the maritime industries. Volkert performed traffic studies, including an origin-destination study, traffic counts, traffic projections, benefit/cost ratio, capacity analysis, and traffic modeling to project future bridge traffic. Volkert provided roadway alignment, functional design, construction cost estimates and all other engineering services necessary for the study. Volkert also provided bridge design concepts for the bridge. Draft EIS was signed by FHWA in 2014.

Staff to be used in this proposal: Paige Felts, Jason Goffinet, Thomas Lee, Trent Farris

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**I-59/20 Corridor Improvements**	Firm responsibility (prime or sub?)	Prime
Project number	n/a	Owner's name	ALDOT
Project location	Jefferson County, AL	Owner's Project Manager	David Welch, PE
Owner's address, phone, email	1409 Coliseum Boulevard, Montgomery, AL 36110; 334-242-6842; welchd@dot.state.al.us		
Services commenced by this firm (mm/yy)	11/2011	Total consultant contract cost ($1,000's)	$3,937
Services completed by this firm (mm/yy)	6/2015	Cost of consultant services provided by this firm ($1,000's)	$6,000

The purpose of the project was to address the structurally deficient bridges along I-59/20 and to improve traffic operations through the City of Birmingham's Central Business District (CBD) for a distance of approximately 3.5 miles. I-59/20 is the only east-west interstate through the Birmingham CBD and is primarily an elevated six-lane divided highway (three-lanes in each direction) with minimal inside and outside shoulder widths through the 3.5 mile study area. According to ALDOT this section of highway is the most traveled in the state of Alabama with an average daily traffic in 2014 of approximately 160,000 vehicles-per-day.

Volkert provided environmental and design (conceptual, preliminary, and final design) services for the project under intense time constraints. The environmental services included the preparation of the NEPA documentation (EA/FONSI) which included a thorough Environmental Justice analysis and extensive public involvement and community outreach activities. Volkert prepared for and attended four public involvement meetings, nine community meetings, two area business stakeholder meetings, and a public hearing. Through extensive coordination with the FHWA, ALDOT, and the communities Volkert was able to identify measures to avoid, minimize, and or mitigate for the impacts to the Environmental Justice communities impacted by the project. The draft Environmental Assessment was approved by the FWHA in March 2015. The final Environmental Assessment was approved in June 2015. Construction will be completed later this year.

Staff to be used in this proposal: Paige Felts, Jason Goffinet, Thomas Lee, Trent Farris

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**I-12 Stage 0, Feasibility Study & Environmental Inventory**	Firm responsibility (prime or sub?)	Prime
Project number	H.005154	Owner's name	LADOTD
Project location	Livingston, Tangipahoa & St. Tammany Parishes, LA	Owner's Project Manager	Mike Aghayan
Owner's address, phone, email	P. O. Box 94245, Baton Rouge, LA 70804, 225-379-1808, Mike.Aghayan@la.gov		
Services commenced by this firm (mm/yy)	09/10	Total consultant contract cost ($1,000's)	$1,317
Services completed by this firm (mm/yy)	01/13	Cost of consultant services provided by this firm ($1,000's)	$1,088,8

The project consists of increasing capacity for I-12 from LA 447 in Walker, LA to the I-10/I-59 interchange in Slidell, LA. Preliminary design was completed in sufficient detail to determine costs and impacts. Cost estimates were accomplished for all alternatives including construction costs for roadway and new or modified bridges, utility relocations, right-of-way costs, potential noise walls, and environmental mitigation.

An environmental inventory was completed to determine if there were any substantial environmental issues that may stop the addition of capacity, or cause the cost to escalate due to mitigation. Feasibility will be determined for each of the alternatives, and recommendations for the preferred alternative will be developed and documented in Stage 0 Reports.

Volkert was responsible overall project Management, preparation of preliminary design including typical sections and plans, and preparation of cost estimates. As part of this study, Volkert accomplished a field review and is evaluating over 100 Bridges to determine if they can be widened or should be replaced during a future widening on the I-12. Volkert will separate the 72-mile corridor into segments which will be prioritized based on need for additional capacity, cost, safety, and level of service.

Staff to be used in this proposal: Janet Evans, PE, MBA, Paige Felts, Jason Goffinet, Thomas Lee, Trent Farris

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**Almonaster Avenue Bridge Replacement - Environmental Assessment**	Firm responsibility (prime or sub?)	Prime
Project number	700-36-0142	Owner's name	Port of New Orleans
Project location	Orleans Parish, LA	Owner's Project Manager	Anthony Evett
Owner's address, phone, email	P.O. Box 60046, New Orleans, LA 70160, 504-528-3309, anthony.evett@portnola.com		
Services commenced by this firm (mm/yy)	01/13	Total consultant contract cost ($1,000's)	n/a
Services completed by this firm (mm/yy)	03/14	Cost of consultant services provided by this firm ($1,000's)	$558

The project involved conducting a feasibility study and preparing an EA to document potential environmental concerns associated with the replacement of the Almonaster Avenue Bridge over the Inner Harbor Navigation Canal and proposed improvements to the roadway approaches to the bridge. The study corridor for the project included the existing road right-of-way and adjacent areas within 1-mile of the existing bridge. While the client was the Port of New Orleans, Volkert was responsible for coordination with Louisiana LADOTD, FHWA, CSX Railroad, and the City of New Orleans to ensure all issues were addressed in the development of the project. Alternatives analyses considered traffic impacts, railroad needs, and maritime vessel movements.

Field analysis and EA documentation focused on jurisdictional wetlands, threatened and endangered species, as well as noise and air quality impacts. In addition to the preparation of the EA, separate reports were submitted for noise, wetlands, and cultural resources; a Phase I Environmental Site Assessment (ESA) documented potential hazardous material contamination concerns. Other potential environmental issues evaluated included land use impacts; dredging and dredged material disposal impacts; socio-economic impacts; demolition impacts; vehicular, pedestrian, and bicycle traffic impacts; floodplain assessment; hazardous waste evaluations; construction impacts; visual impacts; and navigation impacts. Volkert was responsible for completing the EA in accordance with the federally developed National Environmental Policy Act (NEPA) and Section 404/10 Interagency Concurrent Process Agreement. The EA was signed in November of 2003. Preliminary Design started January 2013.

Staff to be used in this proposal: Janet Evans, PE, MBA

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**LA 1088 Corridor Study - Environmental Assessment**	Firm responsibility (prime or sub?)	Prime
Project number	H.010116	Owner's name	LADOTD
Project location	St. Tammany Parish, LA	Owner's Project Manager	Jeff Brown
Owner's address, phone, email	P. O. Box 94245, Baton Rouge, LA 70804, 225-379-1305, jeffery.brown@la.gov		
Services commenced by this firm (mm/yy)	02/15	Total consultant contract cost ($1,000's)	$524
Services completed by this firm (mm/yy)	02/16	Cost of consultant services provided by this firm ($1,000's)	$524

The scope of services for this project consists of the preparation of an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA), and other applicable laws for the proposed project. The project proposes to improve the mobility and safety of vehicle, pedestrian and bicycle traffic along the LA 1088 corridor between LA 59 (Girod St.) and the I-12 westbound ramps in St. Tammany Parish. The total length of the project is approximately 3.5 miles. Volkert is responsible for evaluating the social, economic, and environmental consequences of the alternatives (including the no-build) and present this information in the EA document. In addition to the formal EA document and Finding of No Significant Impact (FONSI), Volkert developed separate reports including Wetland Finding, Phase I Environmental Site Assessment, Phase I Cultural Resources Survey Reports, Noise analysis, a Public Hearing and Conceptual Stage Relocation Plan, etc. A Public Meeting was held to inform the public of the project, potential impacts of the project, and to obtain comments and input from the public on the alternatives, design features, and impacts. Volkert will obtain a FONSI from the FHWA once the EA has been approved by FHWA.

Staff to be used in this proposal: Janet Evans, PE, MBA, Thomas Lee

Firm name	WSP USA, Inc.	Past Performance Evaluation Discipline(s)*	Bridge
Project name	**Arthur Ravenel Jr. Bridge**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	South Carolina Department of Transportation/Skanska/Flation
Project location	Charleston, South Carolina	Owner's Project Manager	Rob Perry, Deputy Secretary for Engineering
Owner's address, phone, email	955 Park Street, Columbia, SC 29201; (803) 737-7900; Rob.Perry@scdot.org		
Services commenced by this firm (mm/yy)	01/00	Total consultant contract cost ($1,000's)	$535M
Services completed by this firm (mm/yy)	06/05	Cost of consultant services provided by this firm ($1,000's)	$25M

WSP served as the lead design firm for D/B construction of the Arthur Ravenel Jr. Bridge over the Cooper River, a cable-stayed crossing of the Cooper River in Charleston, South Carolina. The bridge, which replaced two obsolete Cooper River bridges, has a main span of 1,546 feet. The WSP-designed main span at the time was the longest cable-stayed span in the Western Hemisphere. In addition to eight lanes of traffic, four in each direction separated by a center barrier, the bridge features a 10-ft wide pedestrian walkway/bikeway providing a magnificent view of the surrounding area. The bridge project included two extensive interchanges that connect historic Charleston to the more rural town of Mount Pleasant. The Charleston interchange is a high-level interchange with four direct connect ramps to Interstate 26 and five ramps to local streets. The Mount Pleasant interchange consists of five ramps. The structure features two diamond-shaped concrete towers supported on 10-foot-diameter high-capacity drilled shafts. Each lit tower is protected from ship collision by a large rock island. The bridge has been designed to accommodate widening the main navigation channel to 1,000 feet (304.8 meters) from its current 600 feet. The towers are 572.5 feet high from water line to the top of the light features. Approximately 8,000-foot-long high-level approach spans utilize composite steel girders and reinforced concrete piers. Due to the history of seismicity in Charleston (there was a magnitude 7.3 earthquake in 1886), the design was particularly challenging and included a time-dependent non-linear analysis to evaluate the effects of a 2,500-year event. The structure was also designed for hurricane wind forces. The mainline structure includes the main cable-stayed structure and approaches totaling approximately 13,200 feet.

Staff to be used in this proposal: Tam Leung Kwok

Firm name	WSP USA, Inc.	Past Performance Evaluation Discipline(s)*	Bridge
Project name	**Newark Bay-Hudson County Extension, NJTA**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	South Carolina Department of Transportation/Skanska/Flation
Project location	Charleston, South Carolina	Owner's Project Manager	Rob Perry, Deputy Secretary for Engineering
Owner's address, phone, email	955 Park Street, Columbia, SC 29201; (803) 737-7900; Rob.Perry@scdot.org		
Services commenced by this firm (mm/yy)	01/00	Total consultant contract cost ($1,000's)	$535M
Services completed by this firm (mm/yy)	06/05	Cost of consultant services provided by this firm ($1,000's)	$25M

WSP, as a major subconsultant, developed the preliminary design for the widening of the Newark Bay-Hudson County Extension "Project 1" between Interchange 14 and Interchange 14A, including the structures in this Order for Professional Services (OPS). WSP developed the Type Selection Bridge Architecture, Vessel Collision, and Approach Span Optimization studies. WSP also provided a study of current Sea Level Rise practices and guidelines from various metropolitan agencies to advise NJTA and filed the FAA 7460-1 Notice of Proposed Construction or Alteration, due to the location of the new bridges to Newark Liberty International Airport. WSP advanced beyond the preliminary design to establish bridge fendering, pier protection, a temporary trestle and further superstructure and substructure refinement to support the Authority in submitting the USACE Nationwide 404 permit, the USCG Bridge Permit, and the NJDEP FWIP/FHA permits so that the final design can be advanced within the impacted areas identified I those conservative permits.

The type study required WSP to perform a channel study to determine the history of the allowable minimum channel width due to the overlay of the USACE-maintained channel and the USCG navigation channel in Newark Bay. The practicality of demolishing the piers of the existing main span through-arch bridge was considered versus reusing them as part of the pier protection for a new longer span bridge. Several bridge types and sub-types were considered, along with their constructability with the constraints of keeping the navigation channel open for shipping traffic: network arch, cable-stayed, extradosed, and truss. A decision matrix of key factors was developed with importance of the key factors rated by NJTA and ratings for how well each bridge type addressed those factors were evaluated by long-span bridge specialists at WSP to arrive at the final chosen cable-stayed bridge type. Finite element models were developed for two cable-stayed bridge types and compared for constructability and aesthetics; the preliminary design allowed for the inclusion of a bridge traveler inspection platform, should the Authority desire to implement this feature. The span lengths for the approach spans was performed to minimize cost, avoid existing piers, include aesthetic considerations, and optimize the girder/sub-girder spacing to allow for staged construction and future deck replacement. The preliminary design report included preliminary design drawings, preliminary trestle design for construction access that included crane pick locations for every approach span, preliminary hydraulics study, boring study and preliminary foundation evaluation, preliminary constructability evaluation, and preliminary lighting design.

Firm name	WSP USA, Inc.	Past Performance Evaluation Discipline(s)*	Environmental
Project name	**US 97 Bend North Corridor**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Oregon Department of Transportation (ODOT)
Project location	Deschutes County and Bend, Oregon	Owner's Project Manager	Amy Pfeiffer
Owner's address, phone, email	63055 North Highway 97, Bend, OR 97703, (541)-388-6438; amy.pfeiffer@odot.oregon.gov		
Services commenced by this firm (mm/yy)	06/17	Total consultant contract cost ($1,000's)	N/A
Services completed by this firm (mm/yy)	09/14	Cost of consultant services provided by this firm ($1,000's)	$2.23M

WSP was the prime consultant, providing NEPA and design services, for the US 97 Bend North Corridor project, beginning in 2007 with the preparation of the NEPA Coordination Plan, which identified and confirmed the lead federal agency for NEPA and the cooperating and participating agencies and established roles and responsibilities for each. WSP work with ODOT to develop a draft Purpose and Need Statement, a Public Involvement Plan, conduct agency and public scoping, and conduct an alternatives analysis and screening process. Through the screening, WSP identified the Range of Alternatives for detailed environmental analysis in the Draft Environmental Impact Statement. The Draft Environmental Impact Statement (EIS) was published in July 2011. Upon reviewing agency and public comments on the Draft EIS, WSP worked with ODOT to revise the design of the Preferred Alternative to further minimize property and environmental impacts, prepare the Record of Comments and the Final EIS, which was released in July 2014. The project's Record of Decision was issued in September 2014. Through a separate contract, WSP supported additional design for project construction.

Staff to be used in this proposal: Larissa King Rawlins

Firm name	Ardaman & Associates, Inc.	Past Performance Evaluation 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 22-3753, 24-3707	Owner's name	LADOTD
Project location	Madison Parish, LA	Owner's Project Manager	Chris Nickel
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 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, inspects of the site and monitoring changes in topography by obtaining periodic survey data.

Staff to be used in this proposal:

Megan Bourgeois, Robert Jewell, Ross McGillivray, John Garlanger, Evelio Horta, Jessica Litt, Donald Anthony

Firm name	Ardaman & Associates, Inc.	Past Performance Evaluation 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
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA | (225)379-1937 | Christina.Brignac@la.gov		
Services commenced by this firm (mm/yy)	01/23	Total consultant contract cost ($1,000's)	$3,280
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$713.1

The project consisted 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 geophysical survey transects (electrical resistivity) were completed.

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.

Staff to be used in this proposal:

Megan Bourgeois, Robert Jewell, Ross McGillivray, Mark Woodward, Donald Anthony, Jessica Litt

Firm name	Southeastern Archaeological Research, LLC (SEARCH)	Past Performance Evaluation Discipline(s)*	Environmental, Other (Cultural Resources)
Project name	**Stillman Boulevard Bridge Replacement**	Firm responsibility (prime or sub?)	Sub
Project number	250016	Owner's name	Volkert, Inc.
Project location	Tuscaloosa, AL	Owner's Project Manager	Jason Goffinet, REPA
Owner's address, phone, email	1110 Montlimar Drive, Suite 1050, Mobile, AL 36609, 251-342-1070, ext. 5258, jason.goffinet@volkert.com		
Services commenced by this firm (mm/yy)	01/25	Total consultant contract cost ($1,000's)	$37,000
Services completed by this firm (mm/yy)	01/26	Cost of consultant services provided by this firm ($1,000's)	$37,000

SEARCH conducted a Phase I cultural resources survey (CRS) on behalf of Volkert, Inc., in support of the Stillman Boulevard Bridge Replacement project for the City of Tuscaloosa. The City of Tuscaloosa, using federal funding, is proposing improvements along Stillman Boulevard from west of Martin Luther King Boulevard to 27th Avenue west of downtown Tuscaloosa, Alabama. Because the project is using federal funds, this survey was completed on behalf of the City of Tuscaloosa as part of the regulatory review of the project under Section 106 of the National Historic Preservation Act of 1966. The Federal Highway Administration is serving as the lead federal agency. This project includes the replacement of the bridge (USDOT Bridge No. 001805) carrying Stillman Boulevard over a segment of the Alabama Southern Railroad. The project will also include improvements along 0.5 miles of roadway on Stillman Boulevard, approximately 0.25 miles east and west from where the bridge is located. Additional improvements to Stillman Boulevard include the construction of a multi-use path along the north side and a sidewalk along the south side, utility relocations along both sides, and the widening of some portions. The area of potential effects (APE) for the archaeological survey was defined as the proposed construction footprint in which ground disturbance could occur. The APE for the architectural survey was defined to include the archaeological survey APE plus adjacent parcels. In this document, the "APE" refers to the combined archaeological APE and architectural history APE.

The CRS was conducted to facilitate the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, and included two days of survey fieldwork. The purpose of the survey was to locate archaeological resources, historic structures, historic or archaeological districts, and other cultural resources within the project area and to assess their potential for listing in the National Register of Historic Places (NRHP). This study complies with surface and subsurface survey methods as outlined in the Alabama Historical Commission Administrative Code Guidelines for Archaeological Investigations (Chapter 460-X-9) and Architectural Survey Guidelines and is in conformance with the Advisory Council on Historic Preservation guidelines (36 CFR, Part 800, as amended), Section 106 of the National Historic Preservation Act of 1966 (16 United States Code [U.S.C.] 470) and its implementing regulations (36 CFR 800). The principal investigators for the CRS exceed the professional qualifications presented in the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (Federal Register V.48 N. 190 Part IV p. 44738-44739, September 30, 1983). The archaeology principal investigator is listed on the Register of Professional Archeologists (RPA). Tim Parsons, PhD, RPA, served as the project manager. Matt Nowak, MA, RPA, served as the archaeology principal investigator and report author. Alexis Thomas, MA, served as the architectural history principal investigator. Ben Thompson, MA, provided the historic map and aerial photograph review. Brittaney London, MA, served as the architectural historian and report author, and along with Mr. Nowak, completed the field survey between February 19, 2025, and February 20, 2025. Timothy Parsons, PhD, RPA conducted the quality-control review, and Tanner Lovelace, BA, edited and produced the document.

Staff to be used in this proposal: Timothy Parsons

Firm name	Southeastern Archaeological Research, LLC (SEARCH)	Past Performance Evaluation Discipline(s)*	Environmental, Other (Cultural Resources)
Project name	SR 30 (US 98) Project Development and Environment Study	Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	RS&H, Inc. for Florida Department of Transportation, District 3
Project location	Okaloosa County, FL	Owner's Project Manager	Dan Kristoff
Owner's address, phone, email	10748 Deerwood Park Blvd South, Jacksonville, FL 32256, 904-256-2139, Daniel.Kristoff@rsandh.com		
Services commenced by this firm (mm/yy)	01/24	Total consultant contract cost ($1,000's)	$92,000
Services completed by this firm (mm/yy)	01/27	Cost of consultant services provided by this firm ($1,000's)	$92,000

SEARCH conducted a cultural resource assessment survey (CRAS) in support of improvements to State Road (SR) 30 (US 98) in Okaloosa County, Florida. The Florida Department of Transportation, District 3, is conducting a Project Development and Environment (PD&E) study for improvements to US 98 from east of the Brooks Bridge (Pier Road) to east of the East Pass Bridge (Stahlman Ave), a distance of approximately 8.2 km. The proposed improvements include the widening of US 98 within the project corridor from a four-lane to a six-lane typical section to address capacity needs. Additionally, the project proposes the replacement of the eastbound and westbound spans of the East Pass Bridge. The PD&E study will evaluate the proposed improvements, the replacement of the East Pass Bridge, and stormwater management alternatives (including ponds) associated with the proposed widening. The proposed improvements also include the construction of a shared-use path on the westbound side of US 98 from Pier Road to Gulf National Seashore Drive. The area of potential effects (APE) was defined to encompass all proposed work. The terrestrial archaeological APE was defined to include the existing and proposed US 98 right-of-way within which improvements are proposed. The architectural history APE includes the existing and proposed US 98 right-of-way and was extended to the back or side property lines adjacent to the proposed improvements, or no more than 100 meters from the right-of-way line. The maritime archaeology APE (hereafter referred to as the "maritime APE") includes the waters of East Pass over which the East Pass Bridge spans, extending 153.3 m to the north and south of the bridge, totaling 67 hectares. The western end of the maritime APE is designated a restricted area, no data was collected in this region abiding by these notifications. The purpose of the survey was to locate, identify, and bound archaeological resources, historic buildings or structures, and potential historic districts within the project's APE and to assess their potential for listing in the National Register of Historic Places (NRHP). This study was conducted to comply with Public Law 113-287 (Title 54 U.S.C.), which incorporates the provisions of the National Historic Preservation Act of 1966, as amended, and the Archeological and Historic Preservation Act of 1974, as amended. The study also meets the regulations for implementing NHPA Section 106 found in 36 CFR Part 800 (Protection of Historic Properties) and the Abandoned Shipwreck Act of 1987 (Abandoned Shipwreck Act Guidelines, National Park Service, Federal Register, Vol. 55, No. 3, December 4, 1990, pgs. 50116-50145). This study also complies with Chapter 267 of the Florida Statutes and Rule Chapter 1A-46, Florida Administrative Code. The work was performed in accordance with Part 2, Chapter 8, of the FDOT's PD&E Manual (revised July 2024), as well as the Florida Division of Historical Resources' (FDHR) recommendations for such projects as stipulated in the FDHR's Cultural Resource Management Standards and Operations Manual, Module Three: Guidelines for Use by Historic Preservation Professionals. The principal investigator for this project meets the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (48 FR 44716-42). Steve RabbySmith, MA, RPA, served as the archaeology principal investigator. Kate Willis, MPS, served as the architectural history principal investigator. The report was written by Matt Nowak, MA, RPA, Christopher Sypniewski, MA, RPA, Lindsey Howell Franklin, MA, Brittaney London, MA, Laura Ellyson, PhD, Charles Bendig, PhD, and Ben Thompson, MA. The fieldwork was conducted by Mr. Nowak, Mr. Sypniewski, Ms. London, Ms. Franklin, Anna Suphanniam, MA, Mr. Bendig, Raymond Tubby, MA, RPA, and Justin Milewski, BA. Angelica Costa, BA, and Sarah St. Pierre, MLA, produced the field maps and report figures. Timothy Parsons, PhD, RPA, conducted the quality control review, and Tanner Lovelace, BA, edited and produced the document.

Staff to be used in this proposal: Timothy Parsons

Firm name	Mead and Hunt, Inc.	Past Performance Evaluation Discipline(s)*	Other (Architectural History)
Project name	**Statewide Historic Bridge Inventory**	Firm responsibility (prime or sub?)	Prime
Project number	H.007020	Owner's name	LADOTD
Project location	Statewide, LA	Owner's Project Manager	Stacie Palmer
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA, (225) 242-4517, Stacie.palmer@LA.GOV		
Services commenced by this firm (mm/yy)	05/12	Total consultant contract cost ($1,000's)	$1,700
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	N/A

The LADOTD retained Mead & Hunt to perform an historic bridge inventory of state and locally owned bridges constructed through 1970. This study is assisting LADOTD with streamlining Section 106 review for projects involving historic bridges. This multi-year project included historic context development and National Register evaluations for more than 4,592 bridges. The historic context, completed in 2012, addressed the evolution and history of bridge design and construction in Louisiana and discussed bridge types found within the state, development of important engineering technologies, such as caissons and movable bridges, and important state and private engineers who contributed to bridge building in the state. Mead & Hunt also created an evaluation methodology to assess the National Register significance and historic integrity for the bridges and field surveyed and photographed selected bridges. Mead & Hunt prepared eligibility recommendations for the structures utilizing the evaluation methodology.

A Programmatic Agreement (PA) was negotiated with stakeholders including the Louisiana SHPO, Federal Highway Administration (FHWA), and Advisory Council for Historic Preservation (ACHP) to address the future management of the state's historic bridges. The agreement outlines program planning and procedures for managing 122 historic bridges throughout Louisiana. The PA achieves the LADOTD and FHWA's goal to streamline compliance with the Section 106 regulatory process and focus resources on preservation of historic bridges that will be retained in long-term use. Highlights of commitments in the PA include the following work completed by Mead & Hunt:

- A statewide management plan for historic bridges that provides guidance on best practices for rehabilitation.
- Individual management plans for 33 "preservation priority" bridges that provides the LADOTD and local owners with a road map for maintenance and preservation of these structures.
- Documentation of the state's major bridge types with Historic American Engineering Record documentation including history, large-format photographs and measured drawings.

Ongoing work, including an inventory update, is assisting LADOTD with implementation of the Programmatic Agreement and Section 106 compliance for projects. Christina Slattery served as co-project manager for this project and Emily Pettis provided support on research, field survey, and evaluations.

Staff to be used in this proposal: Christina Slattery, Emily Pettis

Firm name	Mead and Hunt, Inc.	Past Performance Evaluation Discipline(s)*	Other (Architectural History)
Project name	**W. 6th Street Bridge Replacement and Section 106 Compliance**	Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	City of Racine
Project location	Racine, Wisconsin	Owner's Project Manager	John Rooney, City Engineer
Owner's address, phone, email	730 Washington Avenue, Racine, WI 53403, (262) -636-9460, John.Rooney@cityofracine.org		
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost ($1,000's)	$100
Services completed by this firm (mm/yy)	02/25	Cost of consultant services provided by this firm ($1,000's)	N/A

The City of Racine retained Mead & Hunt to complete Section 106 compliance activities for the proposed replacement of the W. 6th Street Bridge over the Root River. The project team conducted a reconnaissance survey to identify historic properties within the Area of Potential Effects (APE). Mead & Hunt identified the W. 6th Street Bridge, Holy Communion Lutheran Church complex, and Root River Parks System, all located within the APE, as eligible for listing in the National Register. Mead & Hunt prepared the Documentation for Consultation and a Memorandum of Agreement (MOA) to mitigate adverse effects to the bridge and Root River Parks System. Mitigation measures to address removal of the historic bridge and contributing resource of the historic park system including public engagement to develop a plan for a context sensitive design of the new bridge, a salvage plan for decorative portions of the bridge and interpretative signage to recognize the historic resources. In addition, a National Register of Historic Places Nomination was prepared to recognize the historic significance of the park system. Emily Pettis served as lead architectural historian and project manager overseeing Section 106 compliance activities and Christina Slattery conducted fieldwork and technical assistance on the National Register nomination.

Staff to be used in this proposal: Christina Slattery, Emily Pettis

Firm name	NTB Associates, Inc.	Past Performance Evaluation Discipline(s)*	Survey
Project name	**IDIQ Contract for Hydrographic Surveying Services, Statewide, LA**	Firm responsibility (prime or sub?)	Prime
Project number	4400019715	Owner's name	LaDOTD Baton Rouge
Project location	Statewide, LA (South Districts)	Owner's Project Manager	Mr. Mitch Kent
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-1013 mitch.kent@la.gov		
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost ($1,000's)	$1,000.0
Services completed by this firm (mm/yy)	03/25	Cost of consultant services provided by this firm ($1,000's)	$885.9

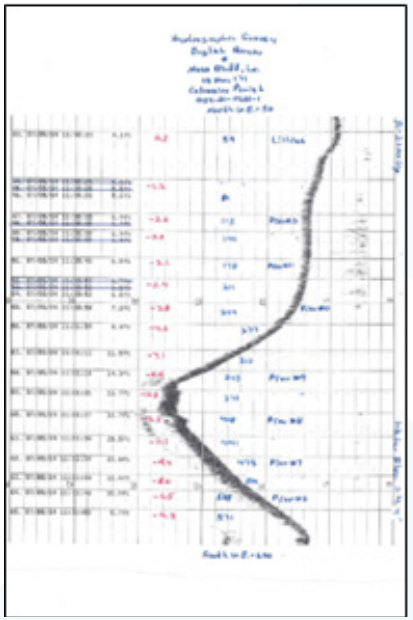
NTBA performed single beam and multibeam hydrographic surveying services and the development of surface models from LiDAR data at scheduled intervals upstream and downstream under an IDIQ Contract for existing bridges throughout the State totaling 301 sites including post hurricane assessments. Hydrographic survey duties included training crews in methods consisting of running range lines at predetermined stations over the water and on the banks and recovering baseline and pre-determined range lines utilizing LaDOTD benchmarks, determining water elevations, performing fathometer bar check to ensure correct speed of sound, running and charting predetermined range lines, obtaining marks at predetermined distances along the range lines, and obtaining photographs of the bridge and any debris or adverse conditions.

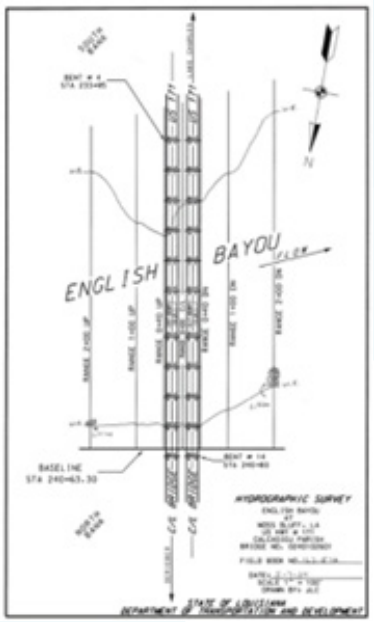
Duties also included the preparation of sketches of the water body surveyed, reduction of chart data from depths to elevations, preparation of a data chart with the depths, elevations, and locations of the data obtained, and preparation of written reports on each survey noting field conditions and findings. All charts, field notes, photographs, data charts, sketches, and reports are submitted electronically to the State's ProjectWise site.

Staff to be used in this proposal:

B. Bunch

M. King





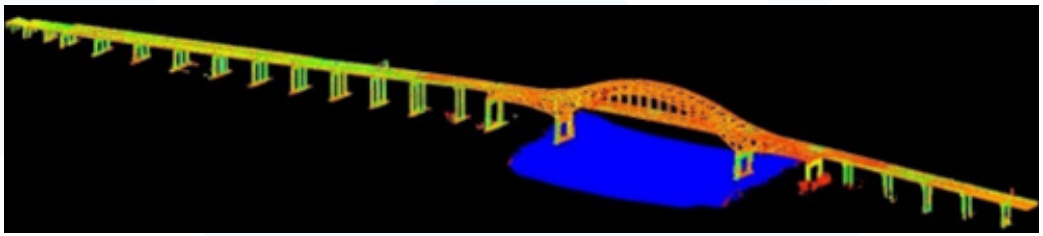
Firm name	NTB Associates, Inc.	Past Performance Evaluation Discipline(s)*	**Survey & Other (SUE)
Project name	**LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI)**	Firm responsibility (prime or sub?)	Prime
Project number	4400017713	Owner's name	LaDOTD Baton Rouge
Project location	Orleans Parish, LA	Owner's Project Manager	Mr. Barrett Smith, PLS
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-1133 barrett.smith@la.gov		
Services commenced by this firm (mm/yy)	12/20	Total consultant contract cost ($1,000's)	$588.4
Services completed by this firm (mm/yy)	3/22	Cost of consultant services provided by this firm ($1,000's)	$588.4

The LA 47: IWGO Bridge Rehabilitation Project is 6,622 feet long Historic Bridge Improvement (HBI) project connecting New Orleans East and Chalmette across the Intercoastal Waterway Gulf Outlet (IWGO) in Orleans Parish. The "Preservation Priority" bridge consists of concrete slab spans, pre-stressed girder spans, welded steel plate girder spans, and tied-arch girder truss spans. NTBA's services on the project entailed installation of six deep rod monuments, topographic surveys, establishing a Static GPS Control Network, HDS 3D Terrestrial LiDAR Laser Scanning, development of surface models from LiDAR data, hydrographic surveying, and QL C, and D Subsurface Utility Engineering Services. NTBA performed a multibeam hydrographic survey of the bridge structure piers to determine scour impact for the bridge repair/ rehabilitation. NTBA also performed a 3D LiDAR scan of the bridge during different seasons to see the effects the temperature had on the movement of the bridge. From the LiDAR data collected, NTBA developed surface models to provide drawings of specified piers, joint, and truss locations at 4 separate times as deliverables. NTBA worked with TRC during the design and planning process for the rehabilitation of various bridge components.

NTBA also provided traffic control coordination for a complete closure of the bridge from Friday at 8pm until Monday at 5am on 4 separate occasions to complete the project on time, within budget and with minimal disruption to the public and local businesses. This location of LA 47 provides a much-needed connection between Chalmette and New Orleans East. The aging bridge acts as both an artery for commerce, as well as a local road for the public, businesses, and industry as well as the US Coast Guard Base New Orleans and the NASA Michoud Assembly Facility. NTBA successfully resolved the challenge of accessing and capturing the features and locations of the project's physical infrastructure. Hydrographic surveying and 3D Laser Scanning were combined to obtain information on the LA 47 bridge structure located across the Intercoastal Waterway Guld Outlet. All services were completed in accordance with the Location and Survey Manual and all currently accepted Location and Survey Automated procedures.

Staff to be used in this proposal:

B. Bunch
M. King



Firm name	EXP U.S. Services, Inc.	Past Performance Evaluation Discipline(s)*	Bridge Planning
Project name	**Grand Avenue Bridge over North Branch of Chicago River**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Chicago Department of Transportation
Project location	Chicago, IL	Owner's Project Manager	Julian Silva
Owner's address, phone, email	2 N. LaSalle Street, Suite 1110 Chicago, IL 60602 Phone: 312-744-8061		
Services commenced by this firm (mm/yy)	11/13	Total consultant contract cost ($1,000's)	$1200
Services completed by this firm (mm/yy)	7/16	Cost of consultant services provided by this firm ($1,000's)	$882

Originally designed for a service life of 50 years, the bridge has been in operation for over 100 years and has required several rehabilitations throughout its lifetime. In the fall of 2013, CDOT had to perform emergency repairs to retrofit several gusset plates and bottom chord members. The west leaf of the bridge is inoperable, and the east leaf can only be partially raised. The bridge was assigned a general overall condition rating of "poor" per the latest inspections.

EXP led Preliminary Study and Engineering for the rehabilitation of the bridge, including in-depth inspections of the bridge structure, machinery, electrical systems, and the bridge houses. The inspections included structural inspection of the bridge and bridge house structures, and the mechanical and electrical inspections of the operating machinery and the electrical and control systems. Structural analysis and LRFR load rating of all the structural members were performed for their inspected condition to identify the need for strengthening and rehabilitation. EXP was responsible for preparing all preliminary engineering documents required by FHWA and IDOT).

Firm name	EXP U.S. Services, Inc.	Past Performance Evaluation Discipline(s)*	Bridge, Planning
Project name	**Ile d'Orleans Bridge – St. Lawrance River**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Ministry of Transportation and Durable Mobility
Project location	Quebec City, CA	Owner's Project Manager	Jessica Potvin, P.Eng.
Owner's address, phone, email	880 Ch Sainte-Fy, Quebec Phone: 418-380-2003 x29708		
Services commenced by this firm (mm/yy)	1/20	Total consultant contract cost ($1,000's)	$113
Services completed by this firm (mm/yy)	12/21	Cost of consultant services provided by this firm ($1,000's)	$113

Preliminary and final design study for the new cable-stayed bridge project to link Île d'Orléans to the north shore of the St. Lawrence River is being carried out through a two-stage public tender process. The Groupement Origine Orléans consortium, of which EXP is a part (+ Stantec), has become one of the three service providers selected to develop a preliminary design (15% design) for a new cable-stayed bridge as well as road improvements. The new structure will be located 125 m west of the existing bridge with a main span of over 400 m in span and that the 2.5 km of road improvements include a new interchange. The proposal development process included workshops bringing together several renowned experts to refine the design parameters of the bridge and the facilities. The exercise has made it possible to optimize the layout, the type of structure, the vertical profile, the number of spans and piers, the construction schedule and the budget.

The activities also included traffic and safety analyzes to study different scenarios for the complete redevelopment of approaches (intersections, interchanges, links for active transportation, etc.). The recommended scenario makes it possible to meet all the needs of all users.required by FHWA and IDOT). Everything has been analyzed in order to obtain the best concept that meets all the criteria and requirements of the Ministry and its partners while reducing the impacts on the landscape, heritage and this very sensitive environment located at the gates of the of the Historical District of Quebec City. The last deliverable included a digital 3D model showing the bridge and all the amenities offered for virtual viewing. Within the consortium, EXP was responsible for the following components: project management, approach structures, construction and erection analyzes of the cable-stayed bridge, road engineering (geometry, pavement and safety), phasing of works and maintenance of traffic , lighting, ITS, signaling, active transport and video (3D model).

Firm name	APS Engineering and Testing	Past Performance Evaluation Discipline(s)*	Geotech
Project name	**I-10 Widening LA 415 to Essen LN**	Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	DOTD
Project location	Baton Rouge, LA	Owner's Project Manager	Kristy Smith, P.E.
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA 70802-4438/ 225-379-1016/ kristy.smith2@ls.gov		
Services commenced by this firm (mm/yy)	09/19	Total consultant contract cost ($1,000's)	n/a
Services completed by this firm (mm/yy)	09/24	Cost of consultant services provided by this firm ($1,000's)	$400K

SCOPE- Geotechnical investigation to provide the client with necessary information for the planning and design of I-10 widening. A P S drilled and sampled a total of 52 deep borings beginning at the Washington Exit and ending at the LSU lakes. Along with drilling and sampling, A P S tested for strength and engineering characteristics of the soils. The testing program included visual classification, determination of water (moisture) content, ash content, organic material of peat and other organic soils, amount of materials finer that 75-µm (No. 200) sieve in soils by washing, and approximately 1,000 triaxial compression, unconsolidated drained or undrained (UU) and Atterberg limits performed.

Staff to be used in this proposal:

Sergio Aviles, P.E . - Project Manager

Sai Eddanapudi, M.E . , P.E. - Project Engineer

Surendra Raj Pathak, M.S. , P.E. - Staff Engineer

Similarities to Professional Geotechnical Servcies

X Geotechnical Explorations (GE)
X Geotechnical Design (GD)
X Geotechnical Construction (GC)
X CMAR
X Constructability
X Contract Management (CM)

Firm name	APS Engineering and Testing	Past Performance Evaluation Discipline(s)*	Geotech
Project name	**Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge**	Firm responsibility (prime or sub?)	Sub
Project number	H.001352; H.002273	Owner's name	Huval & Associates, Inc.
Project location	East Baton Rouge, LA	Owner's Project Manager	Thomas M. Gattles III, P.E.
Owner's address, phone, email	922 West Don't des Mouton Rd,. Lafayette, LA 70507 / 337-264-3798/ tgattle@huvalassoc.com		
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost ($1,000's)	n/a
Services completed by this firm (mm/yy)	06/22	Cost of consultant services provided by this firm ($1,000's)	$150,000

SCOPE- Geotechnical investigation to provide the client with necessary information for planning and building of LA-19 bridge (slope- stability/embankment), LA-19 RR bridge (embankment/MSE wall settlement/retaining wall), LA-19 twin bridges (PPC piles), LA-67 bridge (drill shafts). A P S drilled and sampled a total of 19 borings ranging from 50ft - 100ft in depth. Testing of soils was performed in-house by A P S laboratory. The testing schedule included visual classification, standard methods for determining water (moisture) content, liquid limit, plastic limit and plasticity, unconsolidated-undrained triaxial compressions, and one-dimensional consolidations.

As the project moved into the construction phase, A P S provided geotechnical and structural construction services including PDA instrumentation, testing, and CAPWAP analysis.

Staff to be used in this proposal:

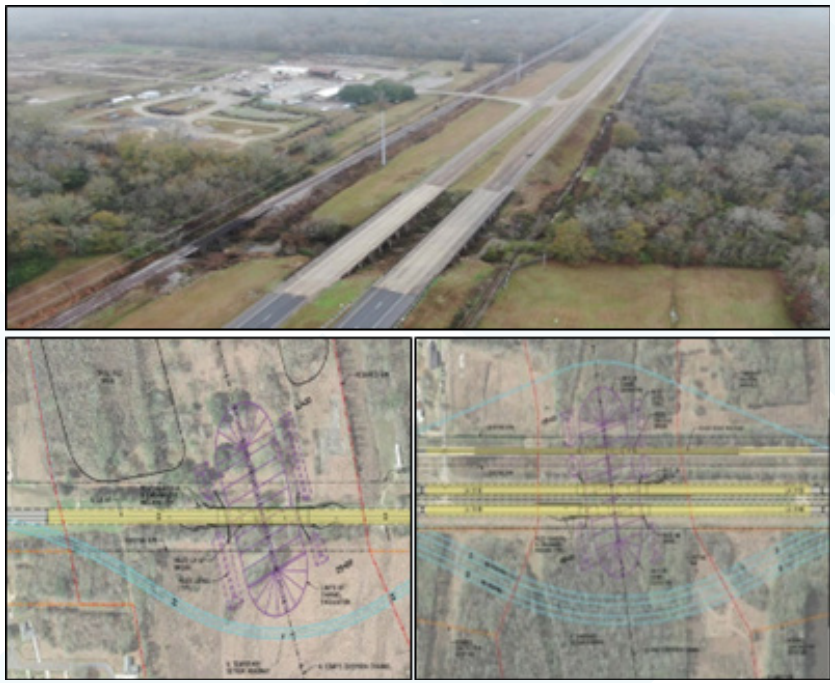
ENGINEERING
Sergio Avile s, P.E . - Project Manager
Sai Eddanapudi, M.E . , P.E.- Project Engineer
Surendra Raj Pathak, M.S. , P.E.- Staff Engineer

LABORATORY TESTING
Sergio Avile s, P.E . - QA/ QC
Sai Eddanapudi, M.E . , P.E.- QA/ QC

ENGINEERING & INSPECTION
Sergio Aviles, P.E .
Sai Eddanapudi, M.E . , P.E.
Surendra Raj Pathak, M.S. , P.E.

Similarities to Professional Geotechnical Servcies

X Geotechnical Explorations (GE)
X Geotechnical Design (GD)
X Geotechnical Construction (GC)
X CMAR
X Constructability
X Contract Management (CM)



SECTION 18 | APPROACH & METHODOLOGY

Bookmarks added to pdf for ease of review.

18. Approach and Methodology:

Provide a description of how the work will be performed and provide the proposed project schedule. This section shall be limited to four pages.

Based on a recent conversation with Consultant Contracts, we have included interactive bookmarks in our pdf to help with ease of review.

APPROACH AND METHODOLOGY

Volkert, Inc. (Volkert) understands that the Louisiana Department of Transportation and Development (LADOTD), in partnership with the Mississippi Department of Transportation (MDOT), intends to develop a Planning and Environmental Linkage (PEL) document to evaluate connectivity along Interstate 20 (I-20) over the Mississippi River near Vicksburg, Mississippi. The existing I-20 bridge, a cantilever truss structure opened in 1973, provides a vital link between Vicksburg, Warren County, Mississippi, and Delta, Madison Parish, Louisiana. This bridge is a critical part of the national interstate highway system. While the bridge is not currently at risk of imminent failure, ongoing westward movement of its river piers indicates the need for a long-term solution to preserve the crossing.

Volkert brings a unique advantage to this project with engineering and environmental staff located in both Louisiana and Mississippi, many of whom have previously worked with LADOTD and MDOT. Our team is deeply experienced in managing cross-jurisdictional infrastructure projects and is well-versed in the policies, procedures, and expectations of both agencies. Volkert has successfully delivered numerous feasibility and PEL studies for major infrastructure projects throughout the Southeast and Midwest.

We understand that the purpose of the PEL process is to streamline decision-making, reduce duplication of effort, promote environmental stewardship, and minimize project delays. Our firm has a strong record of preparing PEL studies that transition smoothly into subsequent phases, including National Environmental Policy Act (NEPA) documentation and design.

THE FOLLOWING OUTLINES THE ROLES AND CONTRIBUTIONS OF OUR SUBCONSULTANTS, HIGHLIGHTING HOW EACH FIRM WILL SUPPORT THE SUCCESSFUL DELIVERY OF THE PROJECT THROUGH THEIR SPECIALIZED EXPERTISE AND SERVICES.

WSP will lead a streamlined, defensible environmental review and NEPA process, minimizing impacts and coordinating closely with LADOTD and stakeholders. Using advanced tools like GoldSET, WSP will analyze alternatives, ensure QA/QC, and guide the project through scoping, public engagement, and final approvals should an EIS be tasked under this project. For structures, WSP will develop a bridge program addressing long-term safety, evaluating rehabilitation and replacement options, and balancing technical, environmental, and historic preservation needs.

As part of the preliminary environmental review, Mead & Hunt will identify known cultural resources within the study area. Once alternatives are developed, a cultural resources survey will be conducted to identify historic properties that may be impacted by the proposed project. The structure is believed to fall under the Advisory Council on Historic Preservation's Exemption Regarding Historic Preservation Review Process for Effects to the Interstate Highway System, meaning the bridge is exempt from consideration as a historic resource under Section 106. Mead & Hunt will prepare a survey report in accordance with LADOTD and LA SHPO standards.

Ardaman & Associates brings over 16 years of geotechnical experience on the I-20 Bridge, having conducted extensive subsurface investigations and installed monitoring instrumentation to assess soil movement. Their deep familiarity with the site allows for an efficient evaluation of both the existing bridge and potential new crossing locations. Ardaman will review historical data, perform targeted investigations, apply advanced modeling, and develop remedial strategies to address ground movement risks. Their approach emphasizes technical accuracy, safety, and minimizing environmental impact.

NTBA will establish a GPS Static Survey Control Network, coordinate with LADOTD for any necessary lane closures, and densify secondary RTK control along the route. After achieving required horizontal and vertical accuracies, they will conduct 3D LiDAR terrestrial scanning and a hydrographic multibeam survey to capture bridge and substructure data, combining both datasets into a surface model for use in design. All work, including QA/QC, will be completed under licensed surveyors in Louisiana and Mississippi, with final deliverables submitted to Volkert within 180 days of NTP.

APS will leverage more than 40 years of combined staff experience to provide comprehensive subsurface geotechnical investigations in accordance with DOTD standards. The firm will utilize its in-house drill rigs, CPT rigs, and laboratory equipment to deliver a high-quality Geotechnical Data Report. APS will collaborate closely with design team members to ensure a seamless transfer of geotechnical data and will also provide geotechnical engineering consultation throughout the project.

For this project, SEARCH will conduct a Phase I survey to identify and evaluate cultural resources within the area of potential effect, including archaeological sites, cemeteries, and submerged resources. The survey will include terrestrial and archaeological maritime components, following Louisiana and federal guidelines. Eligible resources will be assessed for listing in the National Register of Historic Places. SEARCH will prepare a Phase I Cultural Resources Survey Report, incorporating reviewer comments, and submit the final report to the Federal Agency and Louisiana SHPO, with one hardcopy provided upon acceptance.

EXP provides engineering, architecture, design, and consulting services to the built and natural environments, with a history dating back to 1906. Today, with over 4,400 professionals in 100+ offices across North America, EXP offers full-service bridge planning, design, inspection, rehabilitation, and construction, having worked on more than 1,000 bridges. Ranked #13 in Bridges by Engineering News-Record, EXP delivers award-winning designs and cost-effective solutions that help communities build, preserve, and extend the life of vital infrastructure.

At the outset of the I-20 PEL study, Volkert will develop a preliminary purpose and need statement that clearly articulates the current and anticipated deficiencies of the I-20 bridge. This effort will include a review of prior surveys, planning documents, and structural studies. The statement will also establish evaluation criteria for potential build alternatives. We understand that one of the plausible alternatives will be to rehabilitate the existing bridge.

We recognize that the bridge's eastern approach runs through a historic area of Vicksburg, presenting challenges to proposing new alignments. On both the east and west approaches, minimizing impacts to existing communities—particularly by limiting additional approach road construction—will be vital to the feasibility of any replacement option.

Since 2001, the I-20 bridge has been under movement monitoring and structural observation following the discovery that two eastern piers had shifted approximately six inches westward. These movements, along with similar shifts in the adjacent U.S. 80 highway and railroad bridge, have resulted in several modifications to the I-20 bridge, most recently in 2023. While the railroad bridge is not within the scope of this project, our design team will remain aware of potential impacts from new alignments that could interfere with future corrective actions or preservation efforts on that structure.

Several of Volkert's bridge engineers are former LADOTD staff who possess a detailed understanding of the I-20 bridge's historical deficiencies and repair efforts. Their knowledge is especially valuable in evaluating the feasibility of a comprehensive rehabilitation alternative.

As part of this study, Volkert will identify agencies with jurisdictional authority or relevant expertise (Cooperating Agencies) and agencies with potential interest (Participating Agencies) from both Mississippi and Louisiana. Coordination with these agencies will be critical in defining resources, assessing alternatives, establishing a screening methodology, and developing a realistic permitting timeline. Evaluation factors may include logical termini, independent utility, future traffic projections, social and environmental impacts, public input, and cost and maintenance considerations.

We will prepare a Coordination Plan (CP) that outlines the timing and objectives of engagement with agencies during the PEL, NEPA, and future project phases. Invited agencies will include the U.S. Army Corps of Engineers (USACE), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP), Louisiana Department of Wildlife and Fisheries (LDWF), Mississippi Department of Archives and History (MDAH), and the Louisiana Division of Historic Preservation (DHP).

1. DEVELOP PURPOSE AND NEED
2. IDENTIFY ALTERNATIVES
3. DETERMINE EVALUATION CRITERIA
4. AGENCY COORDINATION
5. STAKEHOLDER AND PUBLIC OUTREACH
6. EVALUATE ALTERNATIVES
7. SUMMARIZE RESULTS
8. RECOMMEND ENVIRONMENTAL DOCUMENT CLASSIFICATION

Our team includes support from **WSP**, which has extensive experience working with both LADOTD and MDOT and has a deep understanding of federal and state environmental and permitting processes. **Mead & Hunt, Inc.,** and **SEARCH, Inc.,** will lead cultural resources investigations and Section 106 consultation. WSP will also assist with aquatic species surveys.

Public and stakeholder outreach will also be essential. Input from the public will be used to identify valued community resources and assist in developing the screening methodology for evaluating build alternatives. A list of potentially affected communities and stakeholders will be prepared to inform a project-specific Public Involvement Plan (PIP), which will define outreach methods and scheduling. The plan will also account for community demographics to ensure meaningful engagement with underserved populations. A Solicitation of Views package will be distributed to solicit feedback from interested parties. The PIP will be updated as the project progresses and will include summaries of outreach activities and public input received.

All agency, stakeholder, and public feedback will be incorporated into the PEL. The evaluation criteria for alternatives will be presented in a comparative matrix, and a summary of likely permits and estimated timelines will be included. Volkert, in collaboration with LADOTD and MDOT, will recommend the appropriate environmental document classification to advance into the NEPA phase.

Once the build alternatives are defined, Volkert's multidisciplinary team—including engineers, planners, environmental scientists, ecologists, and cultural resource specialists—will perform field investigations and technical analyses. In-house staff will prepare noise and air studies, community impact assessments, biological surveys, wetland delineations, hazardous materials investigations, economic analyses, and Section 4(f) evaluations. A review of the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IPaC) database indicates that protected aquatic species may be present in the project area.

Mead & Hunt, Inc., and **SEARCH, Inc.,** will continue to support marine and upland cultural resources investigations and Section 106 coordination. Volkert will also develop a project-specific Relocation Plan.

During the evaluation phase, Volkert's engineers will analyze future traffic projections, pedestrian and bicycle accommodations, existing roadway and intersection geometry, drainage culverts, and the I-20 bridge. Ardaman and APS will conduct geotechnical investigations. Ardaman, the national firm that investigated the bridge's pier movements, will provide key insights into geotechnical conditions and potential remedies. NTB will provide topographic, bathymetric, and subsurface utility engineering (SUE) investigations. EXP will prepare construction cost estimates for both the rehabilitation of the existing bridge and any viable alternatives.

Volkert will compile a matrix of findings for each alternative and submit a draft PEL report to LADOTD for review and finalization.

BRIDGE PROGRAM APPROACH

The development of a comprehensive bridge program will serve as the cornerstone of the PEL and NEPA documents. This program addresses ongoing geotechnical and hydrological conditions that have resulted in displacement and structural distress. To ensure long-term safety and reliability of this critical Mississippi River crossing, the program will be founded on decades of investigation and tailored to support regional and national transportation needs for the next 75–100 years.

The bridge program will be developed through an iterative, three-step process: PEL/conceptual design (this contract), preliminary design, and PS&E (under a future contract). The NEPA process requires the evaluation of all feasible alternatives, including No Build, Rehabilitation, and Replacement. Each option will be assessed using defined functional parameters and evaluation metrics—highway geometry, constructability, traffic maintenance, navigation, geotechnical conditions, fluvial geomorphology, and environmental impacts. These parameters will be refined to support the identification of alternatives for further consideration.

BRIDGE REHABILITATION

The main river span and approach spans—over the Mississippi bluffs and Louisiana floodplain—present distinct challenges requiring independent evaluation. A shortlist of structural rehabilitation or replacement alternatives that best align with program goals will be advanced to preliminary design, supported by estimates of cost, schedule, and aesthetics.

To ensure accuracy, structural, geotechnical, and hydraulic engineers will collaborate using improved modeling methods and technologies developed over the last 15 years. This interdisciplinary modeling will evaluate soil-structure interactions and identify potential failure modes without overcomplicating analysis. Initial work will include as-built structural models of the existing bridges to establish a baseline, which will then be adapted to assess rehabilitation and removal scenarios. Structural response and subgrade interactions will be closely coordinated with the geotechnical team.

Given the age and measured movement of the existing bridges, substantial rehabilitation of foundations, substructures, and superstructures will likely be needed to meet modern design criteria and extend service life. Options may include seismic retrofits, such as base isolation for Mississippi piers, and barge protection enhancements for the Louisiana side. While rehabilitation costs may resemble those of the Huey P. Long Bridge project, this alternative may prove most viable when considering overall project impacts—including right-of-way and railroad coordination.

BRIDGE REPLACEMENT

Bridge replacement will introduce additional planning complexity and require adherence to project goals. Maintaining traffic on the existing bridge during construction necessitates a new alignment. The team will prioritize corridors studied in previous investigations to leverage existing geotechnical knowledge and minimize unknowns.

All long-span bridge types will be considered, though minimizing dead load will be critical. A cable-stayed bridge with a steel girder system is likely to offer multiple benefits and reflects recent Mississippi River bridge precedents. Stabilization and scour mitigation measures from previous studies will be incorporated into replacement designs.

A potential addition of heavy rail to the new bridge will be evaluated, considering ongoing movement in the existing railroad structure. If feasible, the new structure could consolidate both river crossings and follow the original alignment, assuming coordination with KCS Railroad for alternative routing. Design for Cooper E80 live load will increase costs and reduce spans, but KCS could potentially provide funding support.

The bridge program must also address the potential removal of one or both existing bridges. Given their historic and regional significance, this will require public outreach and engagement with stakeholders such as the Vicksburg Bridge Commission. In accordance with NEPA, we will explore preservation alternatives such as recordation, relocation, or incorporation of historic elements into the new structure. Following the 2024 collapse of the Key Bridge in Baltimore, public awareness of the risks posed by structural movement and outdated bridge systems has increased—highlighting the urgency of this project.

TRAFFIC

A comprehensive, clearly defined scope of work is necessary for the successful and timely completion of any task orders. Upon receipt of a task order and initial scope, Volkert Project Manager (PM) will request a meeting with LADOTD, Bridge Design Section, Traffic Engineering Management Section, District staff, Local Public Agency (LPA), and other project stakeholders to discuss the project and gain a firm understanding of project background and goals. We will conduct preliminary desktop reviews of existing conditions to provide recommendations on specific data and scope elements.

Depending on the needs of the project, traffic analysis necessary to assess existing and future operational conditions. Volkert's approach to traffic engineering holds the ideas and philosophies set forth in the Traffic Engineering Process and Report (TEPR). Our team is experienced with Highway Capacity Manual methodologies and analysis tools (Synchro, HCS, SIDRA) as well as advanced micro simulation (VISSIM) to model complex operational conditions.

Identify and Evaluate Reasonable Alternatives - The development and analysis of alternatives will be conducted using a tiered, data-driven approach. Tier 1 will involve a high-level evaluation of a wide range of alternatives that aim to address identified traffic needs. Screening criteria for Tier 1 analysis will be developed in coordination with LADOTD based on the specific challenges of the project, with input from traffic, safety, design, environmental, and planning disciplines. The Tier 1 analysis will utilize high-level analysis tools to evaluate the operational and safety performance of potential alternatives. Alternatives that best address project needs while minimizing impacts will be selected for Tier 2.

Tier 2 Analysis will involve a more in-depth evaluation and comparison of selected alternatives and will typically include: quantification of operational benefits, geometric layouts of alternatives, identification of ROW and utility impacts, and high-level construction cost estimates. Also, if there is any alternative to mitigate the concern, Volkert will recommend it.

GEOTECHNICAL INVESTIGATIONS

Ardaman will lead geotechnical efforts, building on its extensive 16-year history at the site. The team will assess the feasibility of continued use of the existing bridge and perform new investigations to support replacement alternatives.

Comprehensive Site Assessment

- Review historical geotechnical data and previous investigations to establish baseline conditions.
- Use numerical modeling to simulate conditions and assess stability for existing and potential new bridge sites.

Preliminary Geotechnical Investigation

- Initiate with targeted borings and instrumentation at potential new locations.
- Minimal new data is needed at the existing site due to Ardaman's existing database.

Data Collection and Analysis

- Characterize soil and groundwater conditions at all new locations.
- Conduct seepage, drawdown, and slope stability analyses for new and existing sites.

Remedial Strategies

- Propose technically feasible measures to mitigate ground movement, guided by a "do no harm" philosophy.

SURVEYING AND 3D SCANNING

NTB Associates will deliver survey services across both Louisiana and Mississippi. After establishing primary GPS static control points and gaining LADOTD approval, secondary RTK control will be densified, and digital leveling will be performed. Survey control data will undergo NTBA's QA/QC processes, refined through prior LADOTD experience.

LiDAR terrestrial scanning and hydrographic surveys will capture conditions above and below the waterline. LiDAR and multibeam sonar data will be combined to create a surface model for design evaluation. Mobile LiDAR will scan main travel lanes to avoid full bridge closure. Deliverables will be formatted for MicroStation and delivered within 180 days of NTP.

ENVIRONMENTAL AND CULTURAL RESOURCES

Mead and Hunt and SEARCH, Inc. will conduct cultural resources surveys to identify historic and archaeological resources within the study area in accordance with MDOT, LADOTD, and SHPO standards. Based on the assumed ACHP exemption, the existing bridge will not be treated as a Section 106 resource, though supporting documentation will be completed.

SEARCH will conduct Phase I surveys for archaeological, architectural, and submerged resources in Louisiana and Mississippi. Surveys will comply with both states' standards and federal regulations (e.g., 36 CFR 800, NAGPRA). Findings will be documented in a Phase I Cultural Resources Survey Report submitted to the SHPOs.

ENVIRONMENTAL IMPACT STATEMENT (EIS)

If an EIS is required, WSP will lead development. Scoping activities will begin with publication of a Notice of Intent (NOI), environmental constraints mapping, and engagement with resource agencies. A KMZ of constraints will be shared early with design teams to support avoidance strategies.

ALTERNATIVES ANALYSIS

Alternatives will be screened using purpose-and-need-aligned criteria and evaluated via WSP's GoldSET© tool. GoldSET allows quantitative, multi-criteria comparison of environmental, economic, and technical scenarios, enabling informed decision-making.

ENVIRONMENTAL ANALYSIS

All technical studies will follow LADOTD formats and include historic resources, air quality, noise, hazardous materials, wetlands, endangered species, and more. Right-of-entry coordination and internal QA/QC will ensure quality and compliance.

DOCUMENT PREPARATION

All studies will be synthesized into a publicly accessible document. NEPA notices (NOI/NOA) will be filed in coordination with LADOTD.

DRAFT AND FINAL DOCUMENTATION

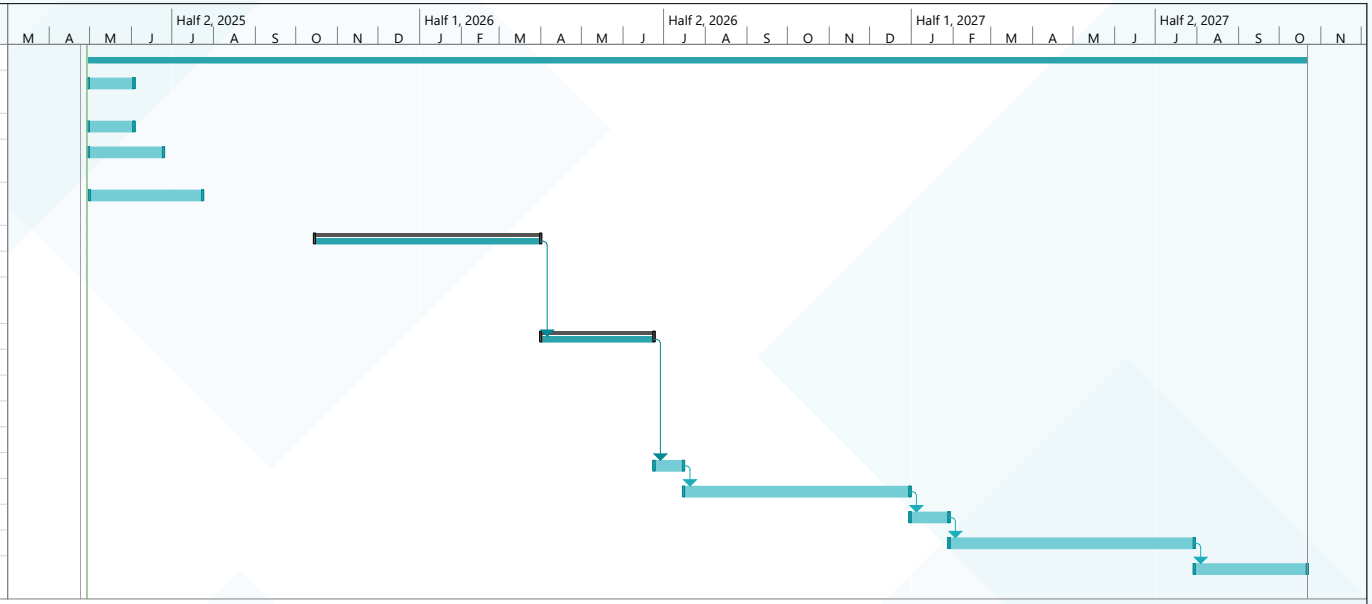
Draft EIS and/or EA will be prepared for public and agency review. A Final EIS and Record of Decision (ROD), or a Finding of No Significant Impact (FONSI), will follow.

LEGAL DEFENSIBILITY

All documents and decisions will be cataloged in SharePoint for version control and legal recordkeeping. WSP's structured documentation process has been proven in litigation-prone projects.

PROPOSED SCHEDULE

ID	Task Name	Duration
1	**I-20 Draft PEL Schedule**	
2	Identify Cooperating and Particpating Agencies for the project	24 days
3	Develop a Draft Purpose and Need	24 days
4	Develop a Draft Coordination Plan that includes a permitting timetable	40 days
5	Identify community and stakeholders affected and develop a Public Involvement Plan	60 days
6	**Alternative Development**	**120 days**
7	Determine Alternatives, carry forward	
8	Develop Resources needed for each alternative	
9	**Evolution of Alternatives**	**60 days**
10	Environmental Screening	
11	Traffic Information	
12	Survey and SUE Evaluation	
13	Geotechnical Evaluations	
14	Summary Matrix of Alternatives	16 days
15	Develop Draft PEL Report	120 days
16	Final Report	21 days
17	Identify potential mitigation strategies	130 days
18	Initiate permit activities as soon as possible, such as pre-application process	60 days



Project: I-20 Mississippi River Bridge at Vicksburg Schedule Draft
Date: Tue 4/29/25

Task		Inactive Task		Manual Summary Rollup		External Milestone	
Split		Inactive Milestone		Manual Summary		Deadline	
Milestone		Inactive Summary		Start-only		Progress	
Summary		Manual Task		Finish-only		Manual Progress	
Project Summary		Duration-only		External Tasks			

Page 1

SECTION 19 | WORKLOAD

Bookmarks added to pdf for ease of review.

19. Workload:

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

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

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
VOLKERT 100 Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.01551.8	Ridge Road Over Castor Creek, Bienville Parish, LA	$139,575
		Contract No. 44-25024 S. P. No. H.015520	Collinsburg Creek over Collinsburg Creek, Bossier Parish, LA	$88,160
		Contract No. 44-25024 S. P. No. H. 015522	Barnette Road over Trib to Walnut Bayou, Caddo Parish, LA	$21,075
		Contract No. 44-25024 S. P. No. H.015524	Self Road Over Dooley Canal, Caddo Parish, LA	$4,050
		Contract No. 44-25024 S. P. No. H.015525	Bailey Town Rd Over Little Corney Bayou, Claiborne Parish, LA	$111,525
		Contract No. 44-25024 S. P. No. H.015527	Hinds Road Over Wallace Bayou, DeSoto Paish, LA	$111,625
		Contract No. 44-25024 S. P. No. H.015528	Courtney Road Over Dry Creek, Red River Parish , LA	$24,550
		Contract No. 44-25024 S. P. No. H.015529	Dorcheat Road Over Cow Branch, Webster Parish, LA	$98,300
		Contract No. 44-25024 S. P. No. H.015336	Marathon Road over Gray Creek, Webster Parish, LA	$96,550

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
VOLKERT 100 Volkert, Inc.	Traffic	Contract No. 44-4787 S.P. No. H.009250	IMR I-10 Highland Road to LA 73, East Baton Rouge and Ascension Parishes, LA	$1,084,218
	Survey	Contract No. 44-17068	IDIQ Contract for Louisiana Watershed Initative (LWI) Modeling Contract Region 2, Sub Consultant, Task Order 4	$37,965
		Contract No. 44-17764 S.P. No. H.013284	IDIQ Contract for Engineering and Inspection Services of State Regulated Dams with Majority of Work in Districts 04,05.08 and 58, Statewide, Tasks Order 4 & 7	$125,582
	CE&I/OV	Contract No. 44-16173 S.P. No. H.003370	I-220/I-20 Interchange Improvements & Barksdale AFB Access, Bossier Parish, LA	$376,650
		H.004791	LA 23: Belle Chasse Bridge and Tunnel Replacement (HBI) Plaquemines Parish, LA	$3,930,558
		Contract No. 44-16980 H.013897	College Drive Flyover Ramp. I-10/I-12 West East Baton Rouge Parish, LA	$159,882
		Contract No. 44-21740 H.004100.6	Phase I W. of Washington Street to Essen Lane (CE&I) Phase I Segment 01. W. of Washington Street to Acadian Thruway, Route I-18. East & West Baton Rouge Parishes, LA	$717,490
		Contract No. 4400026587 S.P. No. H.001779.6	Jimmie Davis Bridge (LA 511) (HBI) (Owner Verfication Services) Route LA 511, Caddo and Bossier Parishes	$7,778,234
		H.001234.6	LA 1: Leeville to Golden Meadow Phase 2 (CE&I) & SA 1 Fabrication Lafourche Parish (Subconsultant to ECM)	$3,121,535
		H.011965.6	LA 47: IWGO Bridge Replacement (HBI) (CE&I), Orleans Parish -Subconsultant	$2,055,161
		H.007811.6, H.000710.6,H.002273.6, and H.001352.6	Comite Diversion Canal CE&I and Utility Relocation, East Baton Rouge Parish, LA – Subconsultant	$119,200
		H.002868.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 3 Fabrication, I-49 S Ambassador Caffery US 90 Interchange, Lafayette Parish	$20,458
		H.011808.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 4 Fabrication, LA 10: Palmetto Company Canal Br	$44,728
		H.011808.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 5 Fabrication, LA 514 Local Bayou and & CR BRS	$20,458
		H.011808.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 6 Fabrication, Caplis Sligo Road	$4,084

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
Mead and Hunt, Inc.	Other (Architectural History)	Contract No.4400006839 and State Project No. H.007020	Historic Bridge Inventory Statewide	$170,702
Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	$422,403
		44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	$72,965
		44-1960; H.013897	I-10 / I-12 College Drive Flyover Ramp	$20,241
		44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	$299,218
		H.004435	I-12 to Bush Construction Phase	$47,956
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	$25,760
		44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	$180
		44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	$2,781
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	$1,743,373
		H.015935	LA 47 @ Bayou Bienville	$23,059
		44-25025; H.015337, H.015452, H.015453, H.015454, H.015455, H.015456, H.015457, H.015458, H.015459, H.015460, H.015461, H.015462, H.015463	IIJA	$202,942
		44-24652; H.014265.5	N River Road Irving Branch	$1,217
		44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	$4,452
		44-24652, H.012607.5	Henderson Bayou Bridge LA 933	$5,070
		44-24652, H.015568.5, H.015569.5	Pelican Point Roundabout	$160,460
		44-24652; H.012842.5	LA 124 Ext. Larto Lake	$3,372
		44-21519; H.012030.5	KCS RR Overpasses US 371	$47,561

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
Ardaman & Associates, Inc.	Geotech	44-6189; H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5	Culvert Replacements	$256,734
		44-21887; H.012542, H.012453, H.012544, H.012047	Replacement of 15 Bridges	$779,058
		44-25026; H.015489, H.015490, H.015491, H.015492	IIJA	$19,330
APS Engineering and Testing, LLC	CE&I/OV	4400024653/ H.01254.6	Wiggins Bayou Bridge	$52,609
	Geotech	4400019337/ H.014247	LA 399 Bridges Near Fullerton	$24,307
		440019337/ H.014245	LA 119; Bayou Pierre & Creek Bridges	$23,654
		4400024653/ H.014982.5	Marathon Rd over Dry Creek	$46,490
		4400019011/ H.012068.5	LA 1026 Creek Bridge	$23,519
		4400024653/ H.014978.5	Bellard Loop over Untamed Drainage Ditch	$41,723
		4400024653/ H.016323.5	LA 37 Glass Branch Bridge	$22,005
		4400024653/ H.016326.5	LA 36 Drain Bridge Pearl	$22,615
		4400024653/ H.016322.5	LA 81: W-11 Lateral & Bayou Black Bridges	$39,335
		4400024653/ H.016312.5	LA 3116 Creek Bridges	$59,216
		4400024653/ H. 016321.5	LA 970 Creek Bridge	$21,058
		4400024653/ H.016311.5	LA 1123 Box Culvert Creek Bridge	$59,399
		4400024653/ H.016324.5	LA 1047: Drain Bridge	$22,608
WSP USA Inc.	Bridge	4400004763 / H.010253.5 Supplement No.3	Electrical & Mechanical C. & MECH. ENG. ON CALL TO9	$109,387
	Planning	4400017327 / H.003931.5	LADOTD P3 Advisory Services On-Call TO2	$40,552
		4400017327 / H.003931.5	LADOTD P3 Advisory Services On-Call TO2	$884,763

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
EXP US Services, Inc.	Bridge	H.015430	Ebeneezer Tap Rd Over Jones Creek	$56,680
		H.015464	Bobby Woods Rd Over Big Creek	$49,135
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$34,250
		H.015466	Doughty Rd Over Haha Bayou	$62,104
		H.015468	Central St Over Hurricane Creek	$57,984
	Environmental	H.015430	Ebeneezer Tap Rd Over Jones Creek	$19,000
		H.015464	Bobby Woods Rd Over Big Creek	$16,427
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$15,750
		H.015466	Doughty Rd Over Haha Bayou	$10,815
		H.015468	Central St Over Hurricane Creek	$17,850
	Geotech	H.015430	Ebeneezer Tap Rd Over Jones Creek	$2,497
		H.015464	Bobby Woods Rd Over Big Creek	$2,497
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$2,497
		H.015466	Doughty Rd Over Haha Bayou	$2,497
		H.015468	Central St Over Hurricane Creek	$2,497
	Right-of-Way	H.015430	Ebeneezer Tap Rd Over Jones Creek	$14,035
		H.015464	Bobby Woods Rd Over Big Creek	$17,025
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$13,998
		H.015466	Doughty Rd Over Haha Bayou	$16,974
		H.015468	Central St Over Hurricane Creek	$14,062
	Other (Hydraulics)	H.015430	Ebeneezer Tap Rd Over Jones Creek	$5,700
		H.015464	Bobby Woods Rd Over Big Creek	$14,275
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$2,045
		H.015466	Doughty Rd Over Haha Bayou	$6,544
		H.015468	Central St Over Hurricane Creek	$2,075

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
EXP US Services, Inc.	Other (Project Management)	H.015430	Ebeneezer Tap Rd Over Jones Creek	$12,500
		H.015464	Bobby Woods Rd Over Big Creek	$10,500
		H.015465	Boggy Bayour Rd Over Cocodrie Bayou	$11,814
		H.015466	Doughty Rd Over Haha Bayou	$12,500
		H.015468	Central St Over Hurricane Creek	$12,500
Southeastern Archaeological Research, LLC (SEARCH)	n/a	n/a	n/a	n/a
NTB Associates, Inc.	Survey	4400019338 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	$36,192
		4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	$48,253
		4400027686 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 2 – Spring Bridges	$21,204
		4400027686 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 3 – Summer Bridges	$70,237
		4400027918 H.015576	IDIQ Contract for Professional Boundary Surveying Services – Task Order 1 – LA 447 & LA 1025 Roundabout	$38,297
		4400027918 H.012869.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 3 – LA 182 (Univ) @ LA 723 (Renaud) Roundabout	$53,264
		4400027918 H.011310.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 4 – Ford Street Extension, District 61	$27,044
	Other (SUE)	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	$40,000

SECTION 20 | CERTIFICATIONS/LICENSES

Bookmarks added to pdf for ease of review.

20. Certifications/Licenses:

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

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
VOLKERT, INC.	Business Corporation (Non-Louisiana)	MOBILE	Active

Janet Evans, PE, MBA | MPR #1, 2, 3

LOUISIANA ASSOCIATED GENERAL CONTRACTORS, INC.
666 North Street – Baton Rouge, LA 70802
Phone: 225/344-0432 * Fax: 225/344-0458
www.lagc.org

June 17, 2023

To Whom It May Concern,

This is to verify that the below listed employees of Volkert Inc. have successfully completed LADOTD required ATSSA Traffic Control Training.

ATSSA Traffic Control Technician Training – July 11, 2023- Janet Evans and Jessica Miles

ATSSA Traffic Control Supervisor Training – July 12-13, 2023 – Janet Evans and Jessica Miles

This letter will serve as temporary proof of training until above listed employees receives their official certificate from American Traffic Safety Services Association (ATSSA).

If there are any questions regarding this issue, please contact Mr. Brett Morgan of LADOTD at Headquarters in Baton Rouge, LA (225-379-1584) or Judy Brousseau at the above captioned address.

Best Regards,

Ken Naquin – LAGC Chief Executive Officer

Jason Goffinet, REPA | MPR #5

National Registry of Environmental Professionals

Be it known to all persons that the following individual pursuant to the requirements for education, experience and examination established by the National Registry of Environmental Professionals is entitled to all of the rights and privileges by the body and to be duly registered by it.

This is to certify that

Jason Goffinet

is a

Registered Environmental Property Assessor

This certificate will remain valid only if it bears the seal of the current year, unless revoked, suspended or invalidated by order of the Board of Directors of the National Registry of Environmental Professionals.

Witness our hand

This Day 4/13/2007

Executive Director

Registration Number: REPA 6309

This certificate is the property of the National Registry of Environmental Professionals and must upon demand be returned.

FLORIDA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL MANAGEMENT OFFICE
CERTIFICATE OF COMPLETION

This certifies that

Jason Goffinet

Completed the Environmental Management Office course:

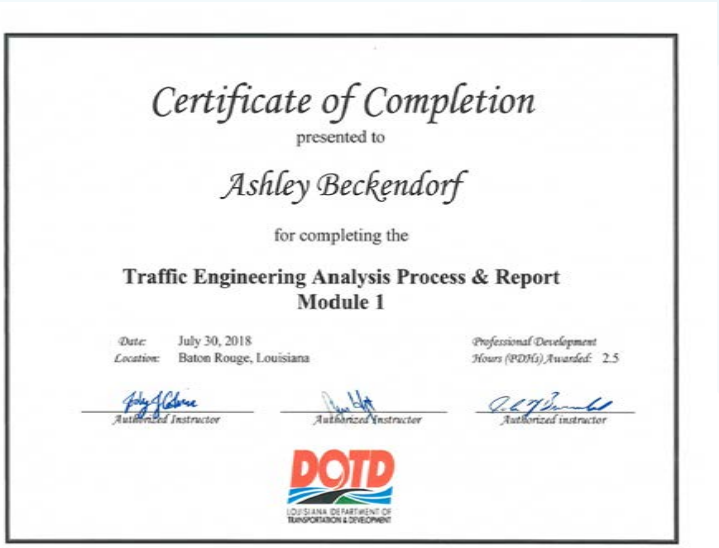
Traffic Noise Analysis

May 7-9, 2002

C. L. Irwin, Manager
Environmental Management Office

Win Lindeman
Instructor
Certificate No. 0175
Course No: BT-19-0005

Ashley Beckendorf, PE



Certificate of Completion

presented to

Ashley Beckendorf

for completing the

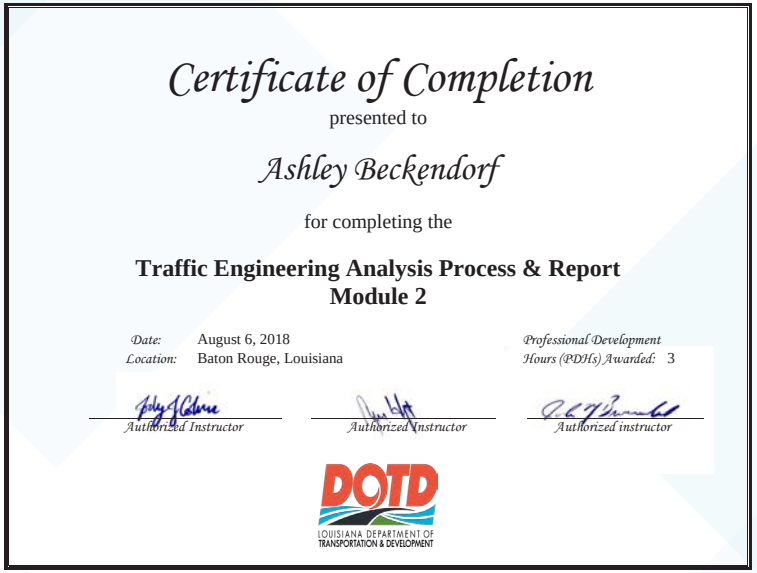
Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Ashley Beckendorf

for completing the

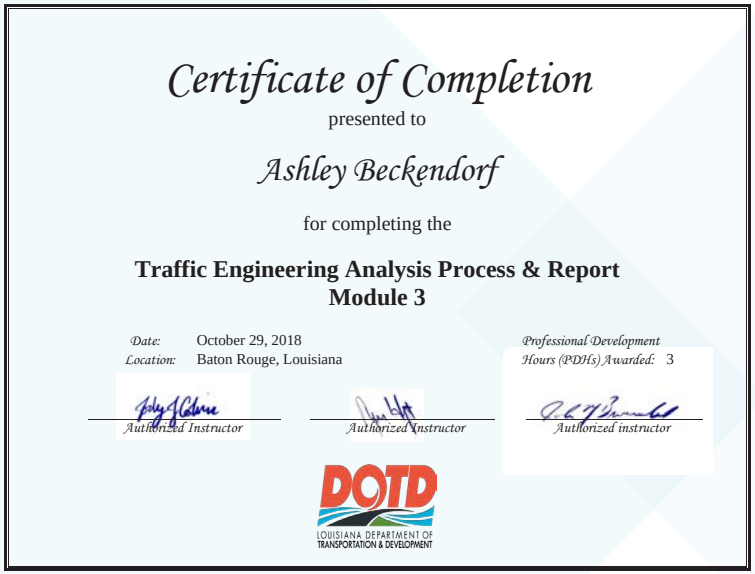
Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Ashley Beckendorf

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ashley Beckendorf

has attended

Traffic Control Technician-LA State Specific

Training Course

4/6/2021 to 4/6/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

ASHLEY BECKENDORF

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Expiration Date 4/23/2025 *State Issued in:* LA

Holder Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ashley Beckendorf

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/7/2021 to 4/8/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Jonathan Gambino, PE, PTOE, RSP1

Certificate of Completion

presented to

Jonathan Gambino

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Gambino

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Gambino

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Jonathan Gambino, PE, PTOE, RSP1

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jonathan M Gambino
has attended
Traffic Control Supervisor-LA State Specific
Training Course

5/12/2021 to 5/13/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jonathan M Gambino
has attended
Traffic Control Technician-LA State Specific
Training Course

5/11/2021 to 5/11/2025
Training Valid Through

Director of Training

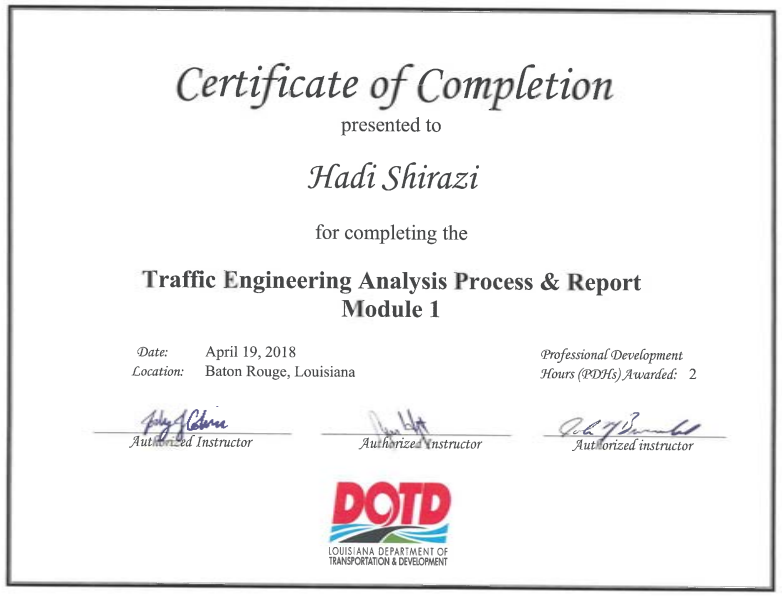
Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Hadi Shirazi, PE, PTOE



Certificate of Completion

presented to

Hadi Shirazi

for completing the

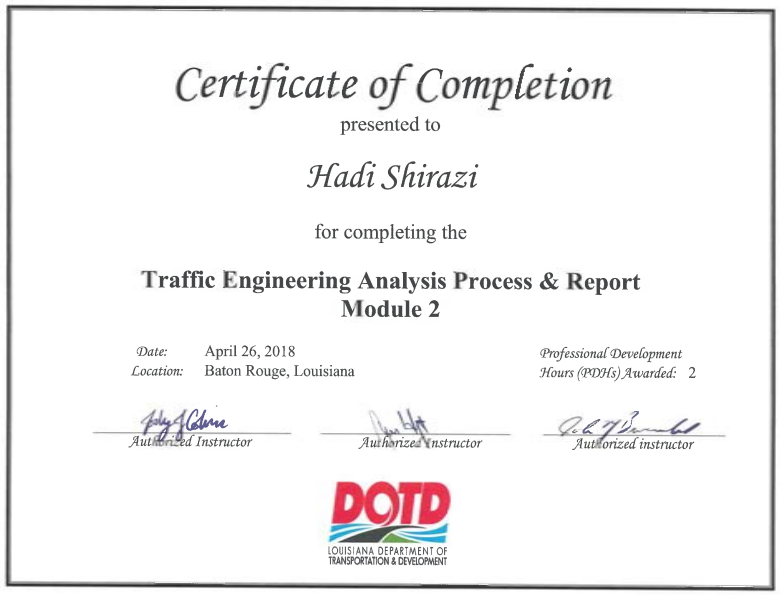
Traffic Engineering Analysis Process & Report
Module 1

Date: April 19, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Hadi Shirazi

for completing the

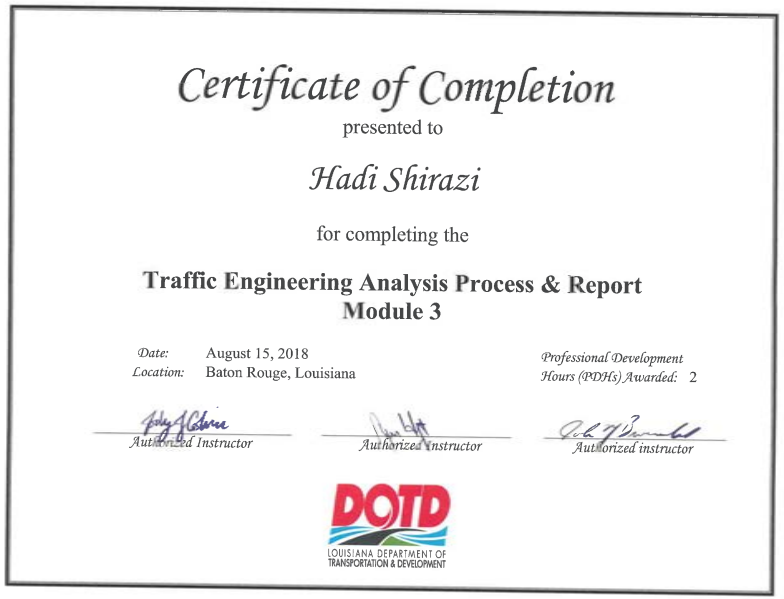
Traffic Engineering Analysis Process & Report
Module 2

Date: April 26, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Hadi Shirazi

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: August 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Trey Pecoraro, EI

Certificate of Completion

presented to

Angelo "Trey" Pecoraro

for completing the

Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3

Date: July 10 – 11, 2024
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

SECTION 21 | QA/QC PLAN AND/OR WORK PLAN

(NOT REQUIRED)

Bookmarks added to pdf for ease of review.

21. QA/QC Plan and/or Work Plan:

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

Not Required for this Submittal.

SECTION 22 | SUBCONSULTANT INFORMATION

Bookmarks added to pdf for ease of review.

22. Sub-consultant information:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
MEAD AND HUNT, INC.	2440 Deming Way, Middleton, WI 53562	Christina Slattery Christina.slattery@meadhunt.com	608-273-6380
Ardaman & Associates, Inc	316 Highlandia Drive, Baton Rouge, LA 70810	Robert Jewell, RJewell@ardaman.com	225-666-4598
APS Engineering and Testing, LLC	1645 Nicholson Dr. Baton Rouge, LA 70802	Sergio Aviles, P.E. sergio@aps-testing.com	225-456-5714
WSP USA Inc.	1100 Poydras Street Suite 1175 New Orleans, LA 70163	Hatem Seliem hatem.seliem@wsp.com	850-556-0708
EXP U.S. Services, Inc.	400 Poydras Street, Suite 1100 New Orleans, LA, 70130	W. Beau Black beau.black@exp.com	504.291.8832
SOUTHEASTERN ARCHAEOLOGICAL RESEARCH, INC.	8600 Oake Street #2A, New Orleans, LA 70118	Timothy Parsons tim.parsons@searchinc.com	504-513-2471
NTB Associates, Inc.	321 Saint Joesph Baton Rouge, LA 70802	Bryan T. Bunch, PLS bbunch@ntbainc.com	(225) 751-4002

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
MEAD AND HUNT, INC.	Business Corporation (Non-Louisiana)	MIDDLETON	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

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

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
APS ENGINEERING AND TESTING, LLC	Limited Liability Company	BATON ROUGE	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
WSP USA INC.	Business Corporation (Non-Louisiana)	NEW YORK	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
EXP U.S. SERVICES INC.	Business Corporation (Non-Louisiana)	WILMINGTON	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
SOUTHEASTERN ARCHAEOLOGICAL RESEARCH, INC.	Business Corporation (Non-Louisiana)	ORLANDO	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
NTB ASSOCIATES, INC.	Business Corporation	SHREVEPORT	Active

SECTION 23 | LOCATION (NOT REQUIRED)

Bookmarks added to pdf for ease of review.

23. Location:

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

Not Required for this Submittal.