

Submitted To:
Louisiana Department of
Transportation and Development



Qualifications Statement

IDIQ Contract for Bridge Maintenance Preservation and Repair, Statewide

Contract No. 4400035210



Submitted By:



4545 Sherwood Common Boulevard, Building 3, Suite A | Baton Rouge, LA 70816



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May 21, 2026

Louisiana Department of Transportation and Development
Attn.: Project Evaluation Team (PET)
Consultant Contract Services
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802-4438

Re: Professional Engineering and Related Services
Contract No.: 4400035210, IDIQ Contract for Bridge Maintenance Preservation and Repair, Statewide

Dear Project Evaluation Team Members,

TRC Engineers, Inc. (TRC), in association with several respected and highly qualified consultant partners, is pleased to submit our *Qualifications Statement* on DOTD Form 24-102 for consideration of providing the needed engineering and related services for the above-referenced contracts. Highlights of our qualifications to deliver all work under a contract of this nature to the complete satisfaction of the LADOTD include the following:

- Accomplished **Project Manager with 42 years of experience** involving the planning, design, inspection, and construction of bridges, roadways, tunnels, railroad facilities, and other associated structures. As Project Manager and Engineer-of-Record on multiple LADOTD assignments, he has directed large interdisciplinary teams under extremely aggressive schedules, advanced projects through delivery methods such as design-build and CMAR (Construction Manager at Risk), and coordinated with contractors, stakeholders, and regulatory agencies to keep projects on schedule and within budget. **He has managed several IDIQ and retainer contracts for the LADOTD** involving bridge preservation and repair work and is very familiar with managing the delivery of multiple concurrent assignments. He is a **21-year veteran of TRC**.
- Involvement of **WSP USA** as a valued subconsultant partner who is **nationally recognized authority on the development of Structure Asset Management Plans for transportation agencies** across the U.S.
- **Well-staffed Baton Rouge office** that has successfully delivered challenging and complex projects for the LADOTD over the past 21 years, including concurrent task orders for **bridge maintenance, preservation and repair work assigned under IDIQ and Retainer Contracts**. Our Baton Rouge staff are further supported by the resources and technical expertise of not only our national technical staff but with **multiple respected subconsultant partners** offering the experience, technical expertise, and staffing to facilitate our **ability to accommodate at least four (4) active task orders concurrently**.
- In-depth experience with the LADOTD's policies, procedures and expectations for this contract having **served as a prime consultant on past IDIQ Contracts**. Thus, we require no learning curve for delivering the expected work as demonstrated in our Approach and Methodology described herein.

TRC is highly appreciative of your review and consideration of our team's credentials and looks forward to your decision.

Sincerely,

A handwritten signature in blue ink that reads "Durk H. Krone". The signature is fluid and cursive, with the first name "Durk" being the most prominent.

Durk H. Krone, P.E.
Vice President, Area Manager SE Infrastructure

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES



(Revised August 11, 2025)

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

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

1. Contract Name as shown in the advertisement	IDIQ Contract for Bridge Maintenance Preservation and Repair, Statewide
2. Contract Number(s) as shown in the advertisement	4400035210
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	TRC Engineers, Inc. (screenshot included in Section 20)
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	License # EF.0003249
6. Prime consultant mailing address	4545 Sherwood Common Blvd., Building 3, Suite A Baton Rouge, LA 70816
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	See Item 6 above
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Durk Krone, PE, Vice President (225) 229-2968 e-mail: dkrone@trccompanies.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Durk Krone, PE, Vice President (225) 229-2968 e-mail: dkrone@trccompanies.com

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

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

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

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

Firm(s):
N/A

Firm(s)' %:
N/A



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

May 21, 2026
Date:

12. Discipline Table:

Discipline(s)	% of Overall Contract	TRC	WSP USA	NTBA	GeoEngineers	Urban Systems Associates	Franklin Associates	Each Discipline must total to 100%
Bridge	83	80	20	0	0	0	0	100%
Geotech	2	2	0	0	98	0	0	100%
Survey	3	0	0	100	0	0	0	100%
Traffic	3	2	0	0	0	98	0	100%
Other (Public Outreach and Relations Support)	3	2	0	0	0	0	98	100%
Road	5	100	0	0	0	0	0	100%
Environmental	1	100	0	0	0	0	0	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.								
Percent of Contract	100%	72	17	3	2	3	3	100%

13. Team Size:

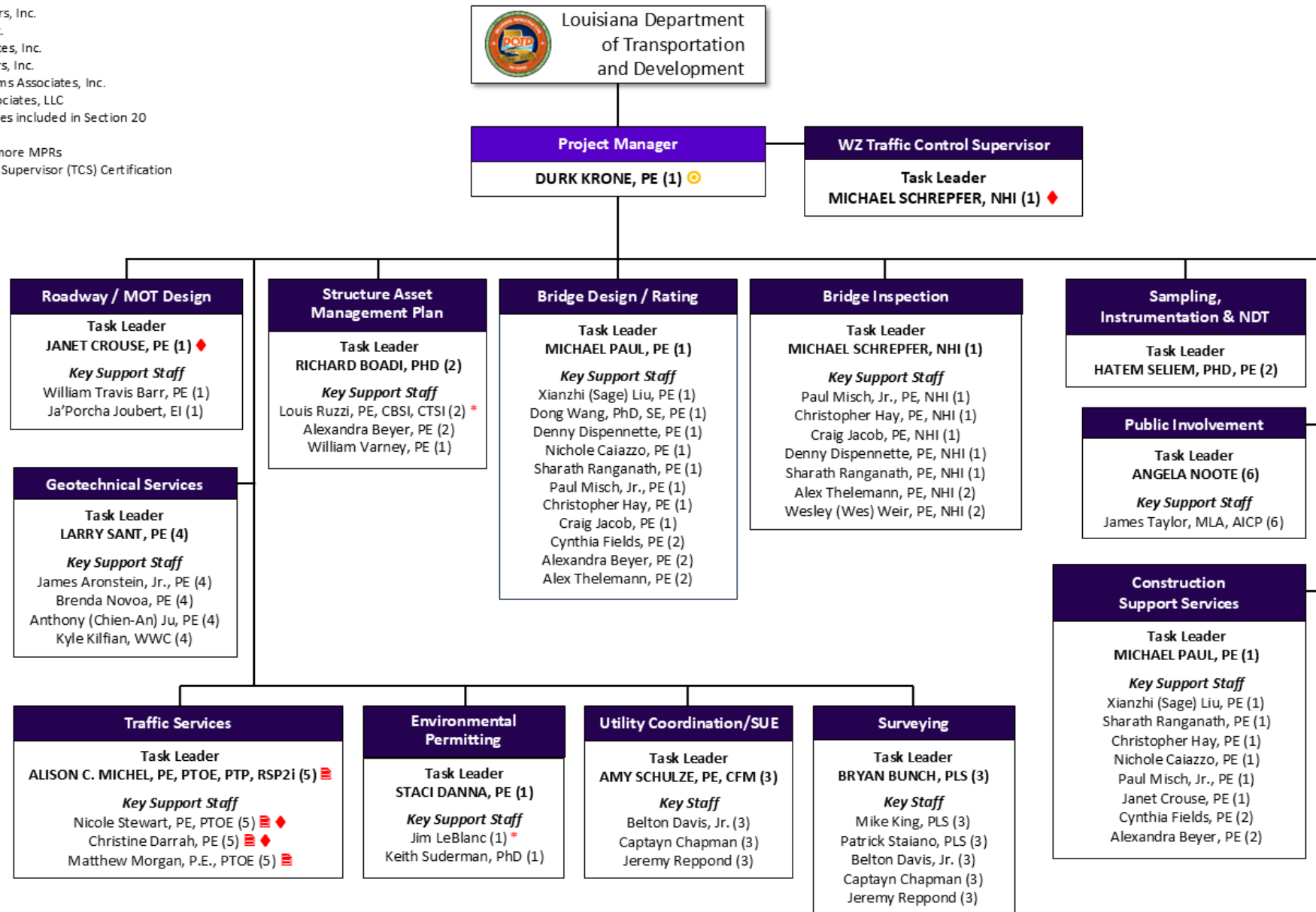
Firm name	DOTD Job Classification	Number of personnel <u>committed</u> to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
TRC Engineers, Inc. 	Principal	1	3
	Supervisor - Eng	5	9
	Supervisor - Other	2	1
	Engineer	10	21
	CADD Technician	4	7
	Administrative	1	4
	Engineer - Other	4	34
	Inspector - Bridge	5	20
	Environmental Pro	1	62
WSP USA Inc. 	Administrative	1	3
	Accountant	1	3
	CADD Technician	2	5
	Engineer	2	17
	Engineer Intern	3	6
	Inspector - Bridge	1	8
	Inspector - Lead	1	3
	Supervisor - Eng	8	15
NTB Associates, Inc.  SURVEY. DESIGN. BUILD. SUCCEED.	Principal	1	1
	Engineer	1	1
	Engineer Intern	1	1
	Surveyor	5	6
	Supervisor - Other	1	5
	Senior Technician	0	1
	CADD Technician	1	10
	Technician	1	2
	CADD Drafter	1	8
	Party Chief	4	20
	Instrument Man	4	12
	Rodman	4	12

Firm name	DOTD Job Classification	Number of personnel <u>committed</u> to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
GeoEngineers, Inc. 	Administrative	1	4
	CADD Technician	1	1
	Driller	2	3
	Engineer	4	9
	Engineer- Other	0	7
	Engineer Intern	1	3
	Principal	2	6
	Senior Technician	1	1
	Technician	1	11
Urban Systems Associates 	Supervisor-Eng	2	2
	Engineer	1	2
	Engineer Intern	1	3
	CADD Technician	1	2
	Inspector	0	1
	Engineering Aide	1	2
Franklin Associates, LLC 	Other (Public Outreach and Relations Support)	2	19

14. Organizational Chart:

LEGEND

- (1) TRC Engineers, Inc.
- (2) WSP USA Inc.
- (3) NTB Associates, Inc.
- (4) GeoEngineers, Inc.
- (5) Urban Systems Associates, Inc.
- (6) Franklin Associates, LLC
- TEPR Certificates included in Section 20
- * Part-time staff
- Satisfies 1 or more MPRs
- ◆ Traffic Control Supervisor (TCS) Certification



15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of licen se	License / certification expiration date
1	Durk Krone	TRC Engineers, Inc.	#PE.0031955 - Civil	LA	03-31-2028
2	Durk Krone	TRC Engineers, Inc.	#PE.0031955 - Civil	LA	03-31-2028
3	Durk Krone	TRC Engineers, Inc.	#PE.0031955 - Civil	LA	03-31-2028
4	Durk Krone	TRC Engineers, Inc.	#PE.0031955 - Civil	LA	03-31-2028

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Durk Krone, P.E.		Years of relevant experience with this employer	21
Title	Vice President/Sr. Project Manager		Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization			M.S. / 1984 / Civil Engineering B.S. / 1982 / Civil Engineering	
Active registration number / state / expiration date			#PE.0031955 / LA / 03-31-2028	
Year registered	2005	Discipline	Civil Engineer Other Pertinent Training / Certifications LADOTD Maintenance & Rehabilitation of Historic Bridges Training Course, 2016 FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 5/1999 FHWA-NHI-130053 – Bridge Inspection Refresher Training, 10/2021 FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridges, 8/2007 FHWA-NHI-130092 – Fundamentals of LRFR, 2015	
Contract role(s) / brief description of responsibilities			Project Manager (MPRs #1, #2, #3, #4) Durk brings 42 years of experience involving the planning, design, inspection, and construction of bridges, roadways, tunnels, railroad facilities, and other associated structures. As Project Manager and Engineer-of-Record on multiple LADOTD assignments, he has directed large interdisciplinary teams under extremely aggressive schedules, advanced projects through delivery methods such as design-build and CMAR (Construction Manager at Risk), and coordinated with contractors, stakeholders, and regulatory agencies to keep projects on schedule and within budget. He has managed several IDIQ and retainer contracts with the LADOTD and is very familiar with managing the delivery of multiple concurrent assignments.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/20-Present	LADOTD, S.P. No.: H.005121, LA1/LA415 Connector – Construction Manager at Risk (CMAR), West Baton Rouge Parish, LA – Project Manager for this high-profile project that involves the design of a new connector between LA 1 and I-10 which will improve resiliency and safety by providing a direct connection and evacuation route for areas south of I-10. The estimated \$550 million project is approximately 5 miles in length and includes a new four-lane roadway and bridge(s) over the Gulf Intracoastal Waterway. Elevated structures are required for much of the project, including a Diverging Diamond Interchange at I-10 and a SPUI interchange layout at LA 1 with substantial roadway improvements north and south of the interchange at LA 1. Initiated as a Design-Bid-Build procurement and in an effort to accelerate the Project, the DOTD transitioned the project’s delivery method near the end of TRC’s preliminary engineering to a CMAR and issued an advanced Notice to Proceed agreement where TRC has recently submitted 30% final plans. TRC is the Lead Designer working hand-in-hand with the DOTD, a CMAR contractor, and ICE (Independent Cost Estimator).			
03/17-Present	LADOTD, S.P. No. 44-17264; H.011965.5, LA 47 over IWGO Rehabilitation, New Orleans, LA - Project Principal for the structural rehabilitation, cleaning and painting of this historic bridge that consists of 1,248 feet of steel main spans with cantilevered arms and tied-arch (main span); 3,304 feet of welded steel girder approaches; 1,590 feet of prestressed girder approach spans; and 480 feet of concrete slab spans. Preliminary and final plans address the repair and rehabilitation of all substructure and superstructure elements. A preliminary jacking analysis and repair scheme for the tied-arch tie girder (chord) repairs was also provided. Served as Team Leader during the performance of a bridge inspection in advance of the design regarding the superstructure girder and truss span inspections. Also provided OC/OA reviews of the inspection report.			

04/08-08/17	LADOTD, Retainer Contract for Bridge Preservation (On-System), Statewide – S.P. No. 700-99-0429 - Project Manager responsible for providing engineering and related services under a retainer contract to include fixed and movable bridge rehabilitation design, approach roadway design, design of steel plate girder superstructure for heavily skewed bridge, sub-consultant spot bridge replacement and approach roadway design, a bridge replacement and rehabilitation study that included the use of SPMT's, scour mitigation, and construction-related services at proposed bridge sites throughout Louisiana.
06/14-08/18	LADOTD, S.P. No. 002562.5 – Bayou LaLoutre Bridge Rehabilitation, St. Bernard Parish, LA – Project manager for the special rehabilitation inspections and rehabilitation design of this vertical lift bridge which included redesign of the bearings, lift tower column base and anchor bolts; steel overhead truss, lift tower, and lift girder repairs; an elevated platform for a new Operator House; and new fender system. He led the construction engineer services, contractor RFIs and submittal.
04/08-05/11	LADOTD, 44-0641 (700-99-0429) / H.005330.5 (701-65-1215) Little Caillou and Bayou LaCarpe Bridges, Houma, LA - Project Manager for special rehabilitation inspections and rehabilitation designs of two vertical lift bridges - Little Caillou Bayou Bridge (LA 24) and Bayou LaCarpe Bridge (LA 661) in Terrebonne Parish. He also post-design engineering services and contractor RFI responses.
03/13-08/17	LADOTD, Contract No.: 4400002184, Retainer Contract for Engineering Services for (BRPM) Bridge Preventive Maintenance Program Statewide - Project Manager responsible for providing engineering and related services at proposed sites throughout the State. <u>District 08 Bridge Super and Substructure Repairs and Painting</u> – This project involved the development of the contract documents for bridge repairs for sixteen (16) bridges. The repairs included cleaning and paint of structural steel, joint replacements, concrete patching, replacement of joint seals, polyester concrete bridge overlays, latex modified concrete overlays, and approach roadway repairs. This project included the development of a Level 2 Traffic Management Plan (TMP). Mr. Krone was responsible for coordinating development of the TMP with our subconsultant and conducting quality control reviews of this document at the 60%, 90%, and Final Submissions. <u>District 61 Bridge Deck Joint & Misc. Repairs</u> – This project involved the development of contract documents for bridge repairs for eleven (11) bridges. The repairs included joint replacements, concrete girder repairs, concrete spall repairs, bearing repairs, and polyester concrete bridge overlays. This project included the development of a Level 2 and a Level 4 Traffic Management Plan (TMP). Mr. Krone was responsible for coordinating the development of these two Transportation Management Plans with our subconsultant. Services included a Stakeholder meeting for the Level 4 sites with the cooperating agencies to get their comments on the preliminary plans, advise them of when the Project would be advertised, and to discuss and confirm roles and responsibilities. Mr. Krone conducted a quality control review of the TMPs prior to all submissions.
07/10 - 02/18	LADOTD, S.P. No.: 700-24-0031, US 190, Mississippi River Rehabilitation, Baton Rouge, LA - Project Manager for this approximately \$97 million project involving complex bridge rehabilitation work for a 12,200-foot long steel truss bridge spanning the Mississippi River. Work involved engineering and related services for the conceptual, preliminary and final design of numerous steel and/or concrete repairs. Rehabilitation included complete cleaning and painting, and general structural rehabilitation of bridge members including cross frame chord members and connection angles, top lateral bracing members, replacement of main truss vertical and diagonal lacing bars, deteriorated interior stiffeners of main truss verticals, deteriorated diagonals at portals, anchor bolt and column rehabilitation for approach bents, bearing pins and corroded bearings, rehabilitation of false chord expansion devices, replacement of cracked gusset plates, and patching of concrete spalls at bearings and retaining walls. Included removal of the existing lead-based paint and the application of a new coating system. Successfully managed the submittal of 158 stamped and signed sheets (297 sheets total) six months ahead of original schedule at the request of the DOTD.
04/16-02/20	LADOTD, 44-5960 & 44-13321 (H.009730.5), In-depth Bridge Inspection of Complex Structures, Statewide, LA – Project Manager for the in-depth inspections of 3 complex trusses and 3 vertical lift bridges over major waterways. Performed QA/QC of the Prime's and TRC's in-depth inspections and reports. Services included: Plan and Document Retrieval and Review and Bridge Inspections.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Billy Varney, P.E.		Years of relevant experience with this employer	4
Title	Project Manager		Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization			M.S. / 2011 / Engineering (Infrastructure and Transportation Emphasis) B.S. / 2000 / Civil Engineering	
Active registration number / state / expiration date			#16253 / WV / 12-31-2026	
Year registered	2005	Discipline	Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2005 FHWA-NHI-130056 - In-Service Bridge Inspection for PEs, 2016 FHWA-NHI-130053 - Bridge Inspection Refresher Training, 2021 FHWA-NHI-130078 - Fracture Critical Inspector Techniques for Steel Bridges, 2012 FHWA-NHI-130110 - Tunnel Safety Inspection, 2015	
Contract role(s) / brief description of responsibilities			Bridge Asset Management Plan Support Billy has 25 years of bridge design, analysis, and inspection experience involving a wide range of bridge types, including adjacent concrete box beams, prestressed concrete beams, steel I-beams, steel plate girders, and reinforced concrete box culverts. He offers a unique understanding of the needs and expectations of our public agency clients having served the WVDOH for 10 years in various roles. During that time, he served as the state’s Bridge/Tunnel Inspection and Load Rating Program Manager responsible for approximately 7,000 bridges statewide, State Bridge Engineer, and the State Asset Management Engineer responsible for development of West Virginia’s Transportation Asset Management Plan (TAMP) and Bridge Management Program. Billy was the only State DOT member on an FHWA-formed seven-member team that developed the NHI 130056, In-Service Bridge Inspection for PE’s training.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/23	West Virginia Division of Highways, Blennerhassett Island Bridge over the Ohio River, Wood County, WV – Served as TRC’s QC/QA Reviewer with regard to a special inspection of this major, 4,000-foot-long tied arch bridge structure. Reviewed the deliverables produced for this inspection which encompassed all non-redundant steel tension members (NSTM).			
03/16-11/18	West Virginia Division of Highways, Asset Management Program Engineer - Served in this capacity within the WVDOH’s Executive Division for over two and a half years, during which time he fulfilled the role of PM and technical advisor for development of the state’s Transportation Asset Management Plan . He also provided technical advice on various bridge rehabilitation and replacement projects and led a team assembled to develop the State’s Bridge Management System. He also served as a technical advisor on various bridge research projects and reviewed consultant and contractor bridge designs and design-build design criteria for compliance with federal and state standards. Notably during this time, he served as a Structure Technical Reviewer responsible for working with the Consultant QAM and WVDOH’s Design-Build Section to develop project criteria for the replacement or rehabilitation of 25 bridges along the I-70 corridor in West Virginia. Responsible for reviewing cost estimates and recommended rehabilitation schemes submitted by the short-listed teams for feasibility and incorporation of resiliency design measures to combat the effect of future environmental factors. The eventual bid cost of \$275 million was deemed excessive and the state rebid the project as a Design-Bid-Build.			

02/12-02/16	West Virginia Division of Highways, State Bridge Maintenance Engineer - Served in this capacity for four years. During this time, he was West Virginia's Bridge Inspection Program Manager responsible for inspection and load rating of the agency's approximately 7,000 structures statewide. The position leveraged his in-depth familiarity with the condition inspection and inventory requirements for ancillary structures as a result of his former position on the AASHTO Committee on Bridge and Structures. Responsible for QAQC oversight of approximately 80 employees statewide for all work related to bridge maintenance, inspection and load rating to ensure the state was adhering to established state and federal policies. During this time he served on the AASHTO Committee on Maintenance Bridge Technical Working Group, the AASHTO Committee on Bridges and Structures, and the FHWA's Long-term Bridge Preservation Committee.
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16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Michael Paul, P.E.		Years of relevant experience with this employer	17
Title	Project Manager/Senior Bridge Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			M.S. / 2003 / Civil Engineering B.S. / 2000 /Civil Engineering	
Active registration number / state / expiration date			#PE.0032172 / LA / 03-31-2028	
Year registered	2006	Discipline	Civil Engineer Other Pertinent Training / Certifications FHWA/NHI #130055 - Safety Inspection of In-Service Bridges, 2007 FHWA/NHI #130078 - Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures LADOTD Highway Safety Manual Workshop, 2011 FHWA/NHI #130092 - Fracture Critical Techniques for Steel Bridges, 2015 ATSSA – Traffic Control Supervisor ASBI Grouting Training Certificate, 2012 LADOTD Maintenance & Rehabilitation of Historic Bridges Training Course, 2016 FHWA-NHI #132082 – LRFD for Highway Bridge Substructures FHWA-NHI #134006 – Utility Coordination for Highway Projects	
Contract role(s) / brief description of responsibilities			Bridge Rehabilitation Design Lead Michael has over 23 years of experience in transportation and civil engineering consulting involving conceptual, preliminary, and final structural design . His projects have included the rehabilitation of major river crossings such as the Mississippi River and Intracoastal Waterway, as well as new bridges spanning railroads and bridges incorporated into complex urban highway undertakings. Rehabilitation designs have addressed all aspects of the superstructure, substructure and foundations.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. E Experience dates should cover the time specified in the applicable MPR(s).			
03/20-Present	LADOTD, S.P. No.: H.005121.5, LA 1/LA 415 Connector CMAR, West Baton Rouge Parish, LA - Deputy Project Manager for the development of preliminary plans for this new 2.7 mile corridor between LA 1 near LA 988 (Beaulie Lane) and I-10 at the 415 interchange. Served as conceptual structural designer and developed the Evaluation of Single Versus Dual Bridge Options Over the GIWW report. Worked with stakeholders for the development and selection of the conceptual alternate alignment when it was determined that the EA Report alignment was no longer feasible due to recent development. Mr. Paul also developed the Project QA/QC Plan, Design Criteria and Project Schedule.			
06/11-Present	LADOTD, S.P. No.: H.011965, LA 47: IWGO Bridge Rehabilitation (HBI), Orleans Parish, LA - Project Manager for the rehabilitation of this bridge which consists of 1,248 feet of steel truss main spans with cantilevered arms and tied-arch (main span); 3,304 feet of welded steel girder approaches; 1,590 feet of prestressed girder approach spans; and 480 feet of concrete slab spans. The project has consisted of the development of preliminary and final plans to address the repair and rehabilitation of all substructure and superstructure elements. A special in-depth inspection was conducted to determine repair types and locations, while 3D laser scanning was performed to analyze abnormal bridge movements. As part of the rehabilitation, TRC was responsible for development of a Transportation Management Plan and Maintenance of Traffic plans that included right lane and left lane closures. and a total closure			

	with detour. As part of the construction support, he reviewed an inspection and repair report prepared for the tie girder T1 steel butt welds that identified additional rejectable areas which resulted in additional repair recommendations and load rating.
07/10-02/18	LADOTD, S.P. No: H.004266 (700-24-0031), Route US 190 Rehabilitation over Mississippi River, East and West Baton Rouge Parishes, LA - Project Engineer for the structural rehabilitation, cleaning and painting of a major railroad/highway bridge across the Mississippi River. The bridge consists of 8,884 feet of railroad approach spans; 2,552 feet of highway approach spans; and 3,326 feet of cantilever steel truss main spans. The inspection consisted of reviewing existing plans and drawings, inspecting and assessing deteriorated portions of the structure, and developing repair locations, repair schemes and details. Reviewed load rating reports for the truss and the approach span steel bent towers, evaluated the bridge conditions and prioritized the bridge repair items. Rehabilitation work included complete cleaning and painting, and general structural rehabilitation of various bridge members including: cross frame chord members and connection angles, top lateral bracing members, replacement of the main truss vertical and diagonal lacing bars, deteriorated interior stiffeners of the main truss verticals, deteriorated diagonals at portals, anchor bolt and column rehabilitation for approach bents, bearing pins and corroded bearings, rehabilitation of false chord expansion devices, replacement of cracked gusset plates, and patching of concrete spalls at bearings and retaining walls. Schemes for jacking and temporary support of members during rehabilitation and structural analysis for traffic reduction during phases of construction were included. Traffic control and phasing for maintenance of traffic was also provided.
08/07-02/09	LADOTD, S.P. No.: 450-09-0026, I-10 Mississippi River Bridge at Baton Rouge Rehabilitation, Baton Rouge, LA - Assisted with performing the design check and construction plan preparation for the rehabilitation of this 2,423', 3-span, through truss bridge. The project included modification of a longitudinal strut to facilitate movement of the suspended span. Sequential jacking was specified for the suspended span movement. The project also included a retrofit of the upper and lower false chord expansion connections, and replacement of the expansion joints to accommodate the suspended span movement. Developed the design documents for floor beam and floor beam connection distortional crack retrofit repairs.
12/10-Present	LADOTD, S.P. No.: H.001234.5, LA 1 Intracoastal Bridge Rehabilitation/Replacement, Port Allen, LA - Detour Bridge Study – Lead engineer for the development of a detour bridge study where two different detour alignments were developed. Each consisted of a 2,500' detour bridge over the Intracoastal Waterway where the proprietary Acrow system was considered and where adequate vertical clearance was provided. Conceptual bridge designs were developed for each alignment. Rehabilitation Study - Lead engineer for a Stage 0 Feasibility Study that investigated three different bridge rehabilitation options and one bridge replacement option for the existing twin bridges that carry LA 1 over the Intracoastal Waterway. As part of the study, Mr. Paul was involved with the development of new roadway alignment options, construction phasing, traffic control schematics, investigating rehabilitation options for the existing bridge and preliminary design of a new bridge option. The rehabilitation and replacement options also investigated and proposed the use of Accelerated Bridge Construction techniques. Preliminary & Final Design – Project Manager while developing the Stage 3 preliminary (bridge and roadway) and final design (roadway only). Associated plans included roadway, traffic control, maintenance of traffic, ITS, traffic signal, MSE wall, highway lighting and bridge plans. Coordinated with UPRR, the US Army Corps of Engineers, the USCG, and the Port of Baton Rouge. A traffic analysis was conducted with the submittal of a Level 3 Transportation Management Plan. The project included a 1.5-mile “superstreet” portion that consists of signalized and un-signalized J-turns. The proposed LA 1 SB and LA 1 NB bridges are 2,680' and 2,700', respectively, and consist of PPC girder approach spans and 3 span continuous steel I-girder spans over the Intracoastal Waterway. Presently providing as-needed construction engineering support during Phase 2 of the project.
01/25-Present	LADOTD, S.P. No.: H.010885.5, LA 91: Bayou Plaquemine Brule Bridge Replacement, Acadia Parish, LA – Project Manager for a bridge alignment feasibility study that included of 4 alternate alignments for the replacement of an existing single lane pontoon bridge over Bayou Plaquemine Brule. The proposed bridge will be a fixed type bridge adjacent to the existing pontoon bridge.
06/23-12/24	LADOTD, S.P. No.: H.015424.5, LA 67: Plank Rd. @ Airline - Girder Rep., Baton Rouge, LA – Project Manager for the emergency repair of a bridge that was struck by a vehicle hauling a forklift. The damaged portion of the bridge is a 49.5' span deck on girder bridge with interior rolled steel girders and exterior reinforced concrete girders. Repairs to the exterior girders consisted of removal and repair of an overhead sign and installing patch material with FRP. Repairs to the steel girder consisted of heart straightening and installing repair plates to strengthen the fracture lower flange to restore capacity. The steel girder repair included jacking and monitoring plans to removed dead load and live load force effects from the girder during the repair.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Xianzhi (“Sage”) Liu, P.E.		Years of relevant experience with this employer	15
Title	Structural Engineer		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			M.S. / 2003 / Civil Engineering M.S. / 1999 / Coastal Engineering B.S. / 1996 / Civil Engineering	
Active registration number / state / expiration date			#PE.0034727 / LA / 09-30-2027	
Year registered	2009	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Bridge Rehabilitation Design / Load Rating Sage possesses 20 years of experience in the structural engineering field that includes bridge design, rating, inspection, structure monitoring and testing, and flood control structure design, along with skills and expertise that include finite element modeling and wind loads on structures. He is also experienced with the load rating provisions in the current AASHTO Manual for Bridge Evaluation and the DOTD Policies and Guidelines for Bridge Rating and Evaluation.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/23-Present	LADOTD, S.P. No.: H.005121.5, LA 1/LA 415 Connector CMAR, West Baton Rouge Parish, LA – Bridge Task Leader for the development of preliminary plans for this new 2.7 mile corridor between LA 1 near LA 988 (Beaulie Lane) and I-10 at the 415 interchange. The project includes a four-lane roadway, bridges over the Intracoastal Waterway and flyover ramps at the LA 1 connection. Serving as the bridge task lead for development of the span layout, bridge type selection, and preliminary design of the superstructure and substructure for a mix of long-span steel girders and prestressed LG girders spans.			
06/25-Present	LADOTD, S.P. No.: H.16046, US190 Atchafalaya River Bridge Repair, St. Landry Parish, LA – Reviewed and provided guidance for final plan development of bridge railings repair, truss false chord repair, and bridge joint replacement, including verifying repair location and scope, reviewing as-built plans and developing repair concept and details.			
11/23-01/24	LADOTD, S.P. No.: H.015424, La 67 at Airline Hwy Bridge Repair, East Baton Rouge Parish, LA – Developed final plans for the bridge steel girders repair and interior diaphragm replacement due to impact damage. Mr. Liu reviewed field conditions, as-built plans, developed repair concepts and details together with jacking and monitoring schemes.			
01/19-05/20	Walter O. Bigby Carriageway, Bossier City, LA – Served as the lead engineer for superstructure design of the main steel girder spans. He has performed design modeling, analysis and final plan development for the main continuous curved steel girder spans with a maximum span length of 300’. He has used several structural analysis software packages, including LUSAS and MDX, for structural analysis. He was also responsible for reviewing shop drawings and erection plans for the steel girder superstructure.			
01/13-07/14; 05/15-12/17	LADOTD, S.P. No. 003905 – I-49 North (I-220 to MLK Drive), Caddo Parish, LA – Served as lead engineer for the superstructure design of a segmental bridge alternative. Developed 3-D FEM models, calculations and final plans for the ramp EN bridge which is a 15-span, precast post-tensioned segmental bridge with a total length of 3,030 ft. He also developed the complete as-designed and as-built load rating reports for the superstructure of the ramp EN bridge.			
03/11-01/17	LADOTD, S.P. No. 700-24-0031 – US 190 Mississippi River Bridge Rehabilitation, Baton Rouge, LA - Performed structural analysis for the purpose of rehabilitating this major truss bridge. He performed a special condition inspection of the main truss for the purpose of rehabilitation design. At an			

	accelerated pace, Mr. Liu reviewed existing plans and drawings, inspected and assessed deteriorated structures, and developed plans for repair locations, repair schemes and repair details which included repair/replacement of main truss members, lateral bracings and expansion bearings, and adding a new safety cable system. Mr. Liu reviewed the submitted shop drawings for structural repair and answered RFIs from the contractor during construction.
3/13-08/13; 08/14- 11/14	LADOTD, S.P. No. 000351 & H.000792 – District 61& District 08 Bridge Preventive Maintenance Repairs, LA - Mr. Liu performed inspections and developed repair plans for more than 30 bridges within district 61 and 08. He reviewed as-built plans, assessed deteriorated structures and developed repair locations, repair schemes and details for joint replacement, deck overlay and miscellaneous preventive structural repairs.
04/20-12/20	LADOTD, Contract No.: 4400004920 (H.012485.1), Off-system Bridge Load Rating - Technical lead for the load rating of more than 400 off-system bridges. He performed complex load rating of steel bridges without any available plans, completed the QC/QA of load rating for superstructure and substructure elements, developed load rating reports, and proposed repair options for bridges with a posting drop. Work was completed using the current LA DOTD BDEM, AASHTO BrR and the AASHTO MBE.
04/16-03/20	LADOTD, Contract No.: 4400004920 (H.009859.5), Complex Load Rating, Statewide, LA – Served as the lead engineer for superstructure and substructure load rating for multiple complex bridges, including LA1 truss bridge over Atchafalaya river, LA47 IWGO tied-arch truss bridge, US 90B Riverbound Expressway deck truss bridge and the following movable bridges: Intracoastal Waterway Bridge at Ellenders (vertical lift), LA 654 over Bayou LaFourche (vertical lift), LA 657 over Bayou LaFourche (vertical lift), LA 319 Intracoastal Canal Bridge (bascule), LA 83 over Patout Bayou (swing), Local Road over Bayou Terrebonne (swing), Bridge over Bayou Teche at Adeline (swing). He performed inspections, load ratings, and developed load rating reports. He also led the efforts to analyze several bridges with unique configurations and high complexities. During his performance of the work, he has utilized several structural analysis software packages including LUSAS, MIDAS Civil and AASHTOWare BrR for structural analysis, validations, and load ratings.
11/19-10/20	LADOTD, Contract No.: 4400004920 (H.012485.1), Off-system Bridge Load Rating - Technical lead for the load rating of more than 400 off-system bridges. He performed load rating, QC/QA of the load rating for superstructure and substructures, developed load rating reports, and proposed repair options for bridges with a posting drop.
04/10-08/10	West Virginia Division of Highways, Twenty-mile Creek Bridge, Nicholas County, WV - Structural Engineer for QA/QC regarding analysis and load rating for this unique truss bridge. He performed an alternative Finite Element analysis for the superstructure and load rating using LUSAS software, and provided detailed rating reports to compare with standard rating programs.
04/07-05/09	Railroad Bridge over Mississippi River Rehabilitation and Inspection, Vicksburg, MS - Performed annual inspections, emergency inspections of the bridge due to barge collision accidents. Assisted with rehabilitation and repair plan development for the old truss bridge due to excessive movement of one of the river piers
11/07-08/08	LADOTD, S.P. No. 006-01-0018 - Huey P. Long Mississippi River Bridge Widening, Jefferson Parish, LA – Performed structure modeling of both the existing and widened truss, reviewed existing shop drawings, assisted with determining the existing truss geometry, and performed camber analysis for fabrication of the widening truss. Led the truss monitoring task during truss erection. Worked closely with bridge monitoring teams and predicted truss member stresses under calibration loads, dead loads and erection loads for various construction stages.
08/10-05/14	West Virginia Division of Highways, Phill G. McDonald Bridge of I-64 over Glade Creek, Raleigh County, WV - Served as structural lead for the truss analysis, gusset plate rating, and bridge monitoring for this structure which is one of the highest deck truss bridges in the world (560'-784'-560' spans). He performed a detailed 3-D Finite Element analysis of the bridge using LUSAS software, generated governing load cases for gusset plate ratings, developed a rating spreadsheet in accordance with FHWA publications for gusset plate rating, and quality controlled the final rating report. He also led efforts to develop bridge monitoring schemes, deploy sensors, and perform data analysis and interpretation for the purpose of diagnosing and rehabilitating abnormal bridge expansion and racking. Performed quality control reviews of the final plans for rehabilitation design.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Dong Wang, Ph.D., S.E., P.E.		Years of relevant experience with this employer	11
Title	Structural Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			Ph.D. / 2014 / Civil Engineering M.S. / 2009 / Structural Engineering B.S. / 2007 / Engineering Mechanics	
Active registration number / state / expiration date			#PE.0042845 / LA / 03-31-2027	
Year registered	2018 (PE of LA) 2020 (SE of LA)	Discipline	Civil/Structural Engineering Other Pertinent Training / Certifications FHWA-NHI-130092-Fundamentals of LRFR for Bridge Superstructures, 2015 LADOTD AASHTOWare Bridge Rating Fundamentals Training FHWA-NHI-130081-LRFD for Highway Bridge Superstructures, 2022 FHWA-NHI-130126-Strut-and-Tie Modeling (STM) for Concrete Structures, 2022 FHWA-NHI-134001-Principles and Applications of Highway Construction Specifications, 2023 FHWA-NHI-130102-Engineering for Structural Stability in Bridge Construction, 2024	
Contract role(s) / brief description of responsibilities			Bridge Design & Analysis / Load Rating Dr. Wang possesses 11 years of experience in the field of structural engineering with a particular emphasis on steel bridge rehabilitation and load rating of both simple and complex bridge structures using AASHTO BrR software.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/21-12/21	LADOTD, Contract No. 4400020156 (H.011965.5), LA 47 IWGO Bridge Rehabilitation, New Orleans, LA – Bridge engineer responsible for an inspection of the bridge and rehabilitation design for the steel plate girder spans. Generated plan sheets for the rehabilitation of various bridge components of the steel plate girder spans, including concrete barrier, drainage trough, stiffener, cross-frame, lateral bracing, and girder splice.			
06/24 - Present	LADOTD, Contract No. H.005121, LA 1/LA 415 Connector, West Baton Rouge, LA – Bridge engineer responsible for steel span design, PCC span design, column bent design, vertical clearance calculations and quantity calculations.			
07/15-03/16	LADOTD, Contract No. 4400002791, (H.009859.5), LA 1 Port Allen Canal Bridge, West Baton Rouge Parish, LA – Bridge engineer responsible for the preliminary design of steel girder spans, PCC girder spans, and column bents. Performed quantity calculations, CAD drawings for GP&E sheets, typical sections, framing plan and foundation plan. Performed the QC for vertical clearance calculations.			
06/16-08/19	LADOTD, Contract No. 4400004920 (H.009859.5), Complex Load Rating and Inspection, Statewide, LA – Load rating engineer responsible for completing the complex load rating of truss and movable bridge superstructure elements of the LA 47 IWGO Bridge (tied arch/deck truss), LA1 over Atchafalaya River Bridge (truss), LA 27 over ICWW Bridge (vertical lift), LA 654 Bayou Lafourche Bridge (vertical lift), LA 83 Patout Bayou Bridge (swing), LA 319 Intracoastal Bridge (bascule), St. Ann Bridge over Bayou Terrebonne (swing) and US 90 Riverbound Expressway Bridge (deck truss/plate girder). Work was completed using the load rating provisions in the current AASHTO Manual for Bridge Evaluation and the DOTD Policies and Guidelines for Bridge Rating and Evaluation. Developed the AASHTOWare BrR load rating, MIDAS/Civil modeling, and Excel/MathCAD data processing. Wrote portions of the load rating reports.			

11/22-12/22; 04/24-05/24	ODOT, PID 116592/TRC 491195 – Statewide Load Rating, OH – Load rater for the performance of LRFR and LFR ratings of steel beam and plate girder bridges. Completed the rating of a bridge with multiple doglegs on a curved alignment with variable flares rated in midas Civil and pegged to a BrR line girder. QC check the load ratings performed by AASHTOWare BrR.
04/23-08/23	TIDD Bridge Load Rating, Brilliant, OH (Private Client) – TRC was assigned the deck replacement design and load rating for a 7-span, 400' long bridge. Dr. Wang developed the 3D FEA modeling of the bridge using midas Civil software. The superstructure (the main girders, floorbeams, stringers) and substructure (the columns) were both included.
03/23-08/23	Bridge Load Rating, US DOE – Performed load rating using AASHTO BrR and midas Civil on six bridges of different types. Members that were rated consisted of the steel beams, grid deck, voided concrete box beams, and arch culvert.
06/22-09/22	ODOT, HAS-151-04.85 – SR 151 over the Columbus & Ohio River Railroad Design-Build, Harrison County, OH – The project involved replacement of a curved six-span bridge over the CUOH Railroad using Design-Build. The bridge is curved and highly skewed to the railroad. An integral straddle bent and a refined analysis were required. Dr. Wang assisted with the midas Civil modeling of the bridge which encompassed both the superstructure and straddle bent.
02/21-04/21	Broadmore Bridge Inspection and Special Haul Load Rating, Lake Arthur, LA (Private Client) – Load rating engineer responsible for the load rating of a concrete slab off-system bridge for special hauling vehicles. He used AASHTO BrR for the concrete superstructure, load rated the timber piles and concrete caps, and issued posting recommendations.
02/20-12/20	LADOTD, Contract No. H.012485.1, Load Rating of 426 Off-System Bridges, Statewide, LA – Load rating engineer responsible for the load rating of 346 off-system bridges (COSLAB, COPCSS, concrete and steel girders). He performed the LRFR load rating analyses using AASHTOWare BrR and other software for the superstructures and substructures (timber and concrete piles). He developed influence lines and models for the cap and pile elements. He performed the quality control for the load rating calculations and analysis models rated by fellow engineers.
07/18-10/20	Walter O. Bigby Carriageway Bridge, Bossier City, LA (City of Bossier City) – Bridge engineer responsible for designing and detailing the bridge deck overhang, bearing pads, pile bents and abutments. Checked the modeling and design of steel girder spans. Performed stability analysis of steel girder spans. Prepared quantities and design calculation books. Performed load ratings of steel girder spans and prepared the load rating report. Checked the load rating of one pile bent.
07/19	BEL-70-2684C Bridge Load Rating, Ohio Department of Transportation, Statewide, OH – Load rating engineer responsible for load rating of the BEL-70-2684C bridge. He used AASHTO BrR for the superstructures and provided posting recommendations
05/19-06/19	Off-system Bridge Load Rating, South Carolina Department of Transportation, Statewide, SC – Load rating engineer responsible for the load rating of several off-system bridges in South Carolina. He used AASHTO BrR and LRFR for the concrete superstructures, load rated the substructure elements, and issued posting recommendations.
05/15-11/15	LADOTD, Contract No. 4400002791 (H.003495 & H.011111), I-49 & I-220 Interchange, Caddo Parish, LA – Load rating engineer responsible for developing and performing the AASHTOWare BrR load rating for the I-49 over MLK Bridge, including writing of the load rating report.
04-10/15	LADOTD, S.P. No.: H00256.5, Bayou LaLoutre Bridge Rehabilitation, St. Bernard Parish, LA – Design engineer responsible for performing the design and quantity calculations for the lower platform design of this vertical lift bridge.

16. Staff Experience:

Firm employed by TRC Engineers, Inc.			
Name	Sharath Ranganath, P.E.		Years of relevant experience with this employer
Title	Project Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization	M.S. / 2015 / Civil Engineering B.S. / 2012 / Civil Engineering		
Active registration number / state / expiration date	#PE.0049283 / LA / 03-31-2027		
Year registered	2019	Discipline	Civil Engineer
			Other Pertinent Training / Certifications FHWA-NHI-130056 - Safety Inspection of In-Service Bridges for Professional Engineers, 11/2022
Contract role(s) / brief description of responsibilities			Bridge Design / Bridge Inspection Sharath possesses over 10 years of structural engineering experience. He is proficient in using advanced analysis software such as midas Civil, HEC-RAS, RAS Mapper, STAAD Pro V8, MDX and LEAP Bridge Concrete. Advanced skills include structural analysis design and detailing, hydraulic modeling and scour analysis.
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
06/25-09/25	US 190: Atchafalaya R @ K’Spgns Repairs, LA – He dedicated additional time to reviewing go-by plans, which enabled him to execute his assigned tasks effectively and in full alignment with project expectations. He detailed the barrier rail repair by specifying the removal of damaged portions and replacement with in-kind new concrete barriers, as well as the in-kind replacement of false chord plates. He also developed plans for the deck expansion joint repair, including the replacement of expansion seals with new silicone joint seals and the replacement of modular joints with new finger joints. This work included detailing new drainage requirements and replacing armor plates in the curbs, ensuring all activities were performed accurately, safely, and in compliance with project standards.		
01/25-05/25	Contract 3 for Movable Bridges, Iberia & Terrebonne Parishes, LA – He invested time in developing a solid understanding of load rating principles, with a primary focus on BrR load rating software, successfully applying this knowledge to deliver quality results on movable bridges. He performed the load ratings of approach slab spans for both simple and continuous spans using BrR software, as well as the pile cap load ratings and metal grid deck load ratings for both half-filled and fully filled concrete decks. Leveraging guidance from senior team members and reference materials, he completed all assigned tasks accurately and on time, ensuring full compliance with project requirements and applicable code standards.		
07/24-12/24	LA 1/LA 415 Connector, West Baton Rouge Parish, LA – He was assigned as the Lead Engineer for the Sunplus Bridge design and detailing, successfully delivering the work to project standards. He designed the prestressed concrete girders using LEAP Concrete for the superstructure and reinforced concrete piers for the substructure. His responsibilities included geometry calculations, vertical clearance checks, and preparation of GP&E sheets and typical sections. Subsequently, he contributed to the superstructure design for both the single and dual bridge options over the ICWW and LA 1 interchange, completing all tasks with a strong focus on accuracy, quality, and strict adherence to project requirements.		
08/23-09/23	Hernando de Soto Bridge over the Mississippi River Inspection, West Memphis, AR and Memphis, TN – Assigned as a bridge inspector during the completion of a hands-on structural inspection of the two main arch truss spans which included cables, ties and upper chord members with the help of man-lift. He also assisted the UAS inspection team with organizing and reviewing data.		
03/23-05/23	OSARC Bridge Inspection, Statewide Mississippi – Assigned as an assistant team leader under this contract which involved the inspection of 178 bridges consisting of complex bridges as well as timber substructures. Specifically, he participated in the inspection of 22 bridges, four of which involved his		

	hands-on inspection of a non-redundant steel tension member (NSTM) rail car bridges. He compiled 11 bridge inspection reports which were submitted within 30 days of the inspection.
06/19-02/20	Freeo Creek Relief Structures, Ouachita Co, AR – Project involved the replacement of four bridge structures along SH 7. Lead engineer responsible for analysis and design of the curved steel girder unit (3 deg curve, 7.6% superelevation and 20 deg skew) using LEAP Bridge Steel software and the prestressed square piles using LPILE and RC Pier software. He also performed the hydraulic design for the project which included scour analysis and report compilation.
04/20-02/21	Cornie Bayou, Harper Creek, and Lapile Creek Bridge Replacements, Columbia and Union Counties, AR – Project engineer for the replacement of 3 bridges. Responsible for the entire project design and detailing effort which included precast prestressed concrete girder units using RC Pier software and pile design using LPILE software. He was also involved in CWP and performed a single mode seismic analysis for each structure.
02/20-11/20	Big Creek, Little Piney Creek, and Big Creek Branch Structure, Lee and Monroe Counties, AR – Project Engineer during the replacement design of three bridge structures along State Highways 78, 238 and 259. Designed precast prestressed concrete girder units (40 deg skew) using LEAP Bridge Concrete and pipe piles using RC Pier, LPILE and Midas Section Designer for moment curvature analysis. Also performed the single mode seismic analysis (Zone 3) for the structures.
11/17-01/18	NYSTA Syracuse Bundled Bridges, Syracuse, NY – Design engineer during the design of three replacement continuous span structures along the New York State Thruway. His role included superstructure design using LEAP Bridge Concrete (CON/SPAN). He also performed railroad load rating assessments, verified vertical clearance geometry, estimated steel weights, and conducted preliminary calculations for the Spring Street Superstructure Replacement project.
05/18-03/19	Hwy 212 over Big Creek Relief Structures, Cleveland Co., AR - Analyzed and designed three precast-prestressed concrete slabs using Leap concrete and pipe piles using RC Pier and LPILE. Provided bridge layout and detailing of other components using MicroStation. Also involved in estimation and modeling of cut and fill for embankment.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Christopher Hay, P.E.		Years of relevant experience with this employer	9
Title	Sr. Bridge Engineer		Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization			B.S. / 2007 / Civil Engineering	
Active registration number / state / expiration date			#PE.0043025 / LA / 03-31-2028	
Year registered	2018	Discipline	Civil Engineer Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2016 FHWA-NHI-130053 – Bridge Inspection Refresher Training, 2021 FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridges, 2014 FHWA-NHI-130092 – LRFR for Bridge Superstructures, 2019	
Contract role(s) / brief description of responsibilities			Bridge Inspection / Load Rating / Bridge Rehabilitation Design Chris possesses 18 years of structural design experience, with the last 16 in various aspects of bridge engineering including preliminary and detailed bridge design, plan preparation and development, project management, quality control, field inspection and reporting, cost estimates and bridge inspection. He has been involved in the design of a variety of bridge projects, including concrete slabs, pre-stressed concrete I-beams and rolled steel beam bridges. He also offers expertise with integral, semi-integral and stub abutments; T-type and cap-and-column piers; soldier pile, cast-in-place and MSE retaining walls; and such foundation types as multi-row piles, drilled shafts and spread footings. Complementing his design expertise, he is adept at the inspection and load ratings of bridges of all types including the use of AASHTOWare BrR and midasCivil software.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/22-Present	Ohio Department of Transportation, VAR-STW-Statewide Load Rating – Load rater performing LRFR and LFR ratings of steel beam and plate girder bridges. Was also responsible for training, checking and QA reviews of numerous steel beam and concrete slab bridge ratings. Completed the rating of a bridge with multiple doglegs on a curved alignment with variable flares rated in BrR using line girders calibrated for live load distribution factors calculated in Midas Civil.			
04/22-07/22; 04/24-06/24	WVDOH, Blennerhassett Island Bridge over the Ohio River, Wood County, WV - Bridge inspector during the completion of Routine element level inspections of this network arch bridge that carries U.S. Route 50 over the Ohio River and historic Blennerhassett Island. The longest bridge in West Virginia, the structure has a total length of 4008’-9”. Involved in the performance of a hands-on inspection of every element of the structure which included the Ohio approach (three-span steel girder unit with a total length of 489’-9”), main span (878’-6” network tied-arch unit that crosses the main channel of the Ohio River) and WV approaches consisting of an eight-span steel girder unit (total length of 2,624’-10½”).			
11/19-12/20	LADOTD, Contract No. H.012485.1, Off-system Load Rating, Statewide, LA – Bridge inspector responsible for the assessments of 50 off-system bridges (COPCSS and COSLAB with concrete or timber piles). He documented current conditions and geometric data for the load ratings. Served as the load rating engineer which included analysis of the superstructures and substructures (timber and concrete piles) using AASHTOWare BrR, LRFR, and STAAD.			

12/18-01/19	WVDOH, I-70 Bridges Design/Rehabilitation Inspections, Ohio County, WV and Belmont County, OH – Inspection team leader for the expedited inspection/evaluation of 7 bridges (steel girders). Responsible for identification and documentation of deficiencies to be included in the rehabilitation of assigned structures.
11/18-12/18	WVDOH, District 9, Kanawha Falls Emergency Inspection, Fayette County, WV - Kanawha Falls Bridge is a 90-year-old, three-span, riveted through truss over the Kanawha River. Team leader tasked with performing an emergency inspection of the floor beam to lower chord connections for the entire floor system to verify their condition and advise if additional emergency repairs were required. Led an inspection of the truss lower chords and stringers looking for critical findings that might require immediate repairs or preclude the bridge from reopening.
09/18-10/18	Ohio Department of Transportation, District 2, LUC-280 VGCS Inspection, Toledo, OH – Team leader for the routine and element level inspections of this cable stayed and concrete segmental box girder bridge consisting of a series of nine bridges, including ramps, carrying I-280 over the Maumee River. He also performed QA/QC checks of the inspection reports.
06/18-10/19	WVDOH, I-70 Bridges Rehabilitation, Ohio County, WV and Bridgeport, OH - Bridge design engineer during the replacement or rehabilitation of several bridges. For the 7-span BEL-70-26.84 bridge (620 feet) the entire superstructure, including concrete deck, concrete barrier parapets, steel beams, expansions joints and bearings and rear abutment backwall, were replaced. The new bridge was constructed without a center joint allowing a single median concrete barrier to be used for safety. The rear abutment was rehabilitated with a new backwall and a new full width approach slab. New PTFE elastomeric bearings will be used to limit loading additions. He also assisted with rehabilitation design efforts at three (3) other bridge sites by providing plan and calculation checking involving rehabilitation work that included substructure patching, conversion to semi-integral, new elastomeric bearings and elimination of deck joints. All substructures had to be analyzed for the changes in loading due to joint eliminations, increase loading and bearing type changes.
09/17; 12/17; 9/18 and 01/19	Ohio Department of Transportation, VAR-D08 Fracture Critical Bridge Inspections No. 2017-2, Fort Ancient and Oregonia, OH - Project involved the performance of annual bridge inspections on various truss bridges and post-tensioned bridges in ODOT District 8. Mr. Hay participated in the routine element level inspection of the following bridges: HAM-50-0376L (4-span thru-truss structure); HAM-50-2180N (7-span deck arch with three plate girder approach spans); WAR-71-1514L/R Jeremiah Morrow Bridge over the Little Miami River (post-tensioned, CIP Segmental boxes and cast-in-place, twin-wall piers); and U.S. Route 50 over the Great Miami River . Inspected the abutments, piers, floor beams accessible by ladder and all lower chords, as well as participated in the review of bridge inspection reports.
07/17	WVDOH, 5th Street Bridge, Wood County, WV – Bridge inspector for the performance of an In-Depth inspection of this bridge that consists of a 350' simple span riveted Warren Through Truss and 13 steel wide flange beam spans. The bridge is supported by reinforced concrete abutments and piers, along with steel bents on concrete pedestals.
03/15-04/16	South Carolina Department of Transportation, Interchange Rehabilitation, I-85/I-385 Design-Build, Greenville, SC - Structural engineer on this unique Design-Build project that included a road widening, interstate rehabilitation and intersection improvements. The project was developed using Design-Build to reduce construction time and provide for better management of cost, reduce environmental impacts and shorten travel delays for motorists.
02/11-10/11	Ohio Department of Transportation, District 6, I-670/71 Interchange, FRA-71-17.16/FRA-670-4.19, Franklin County, OH - Bridge engineer on this \$200 million Design-Build project which involved improvement of the safety and operational efficiency of the I-670/71 Interchange. Goals included providing a multi-modal solution for the interchange and surrounding streets, access points, pedestrian facilities, and aesthetic enhancement to support the City of Columbus' complete streets philosophy. The RFC (Released for Construction) plans were completed in a nine (9) month period for all of the drainage and SWPPP design, seven bridges (which included a 1000' long flyover structure), and 26 retaining walls (MSE, CIP, and T-Type).

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Denny Dispennette, P.E.		Years of relevant experience with this employer	9
Title	Civil Engineer		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			M.S./ 2012 / Civil Engineering B.S. / 2010 / Civil Engineering	
Active registration number / state / expiration date			#PE.0044141 / LA / 03-31-2028	
Year registered	2019	Discipline	Civil Engineer Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2014 FHWA-NHI-130053 - Bridge Inspection Refresher Training, 2021 FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridges, 2021 FHWA-NHI-130092 - LRFR for Bridge Superstructures, 2014	
Contract role(s) / brief description of responsibilities			Inspection Team Leader / Load Rating / Bridge Rehabilitation Design Denny possesses more than 14 years of experience involving bridge load rating, bridge inspection, and design while working for the WVDOH (5) and TRC (8). His expertise includes extensive bridge load rating work, performance of in-service bridge safety inspections, hauling permit evaluation, and overall guidance with respect to the WVDOH’s load rating program, including development of the WV Bridge Load Rating Manual. He has provided load rating support statewide to bridge engineers, implemented load rating policies to comply with NBIS requirements, and analyzed various types of bridge materials, including steel, concrete, and timber using such design philosophies as LFRD, LFD, and ASD. He has also evaluated simple bridges and complex bridges using AASHTOWare BrR, LARSA 4D, MDX, and much more.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/22-07/23	WVDOH, Trout Run Cutoff Bridges, Hardy County, WV – Designer and load rater for the twin bridges carrying US48 over a local road. He designed the two different (EB & WB) steel superstructures (girders and all associated details) and load rated each of these new bridges to be constructed next year.			
06/25-Present	WVDOH, District 1 Evaluation Engineer – Task Order assignment to serve as the District 1 Evaluation Engineer. In this role, he is responsible for the routine load rating review (evaluation) of every bridge in District 1. He leads 3 to 9 people within TRC as they load rate bridges, handles all client interaction, and makes bridge weight limit recommendations and repair recommendations to the District Bridge Engineer. During this project, he has overseen the load rating by TRC of the Patrick Street Bridge, a 27-span Kanawha River crossing located in Charleston, WV. In an effort to help the district successfully meet their federal deadline, he led the review of over 400 bridges in just four months.			
04/22-07/22; 04/23-07/23; 04/24-Present	WVDOH, Blennerhassett Island Bridge, Parkersburg, WV – Project Manager/Team Leader during the Routine (2022, 2024) and Special inspections (2023) of this network arch bridge that carries U.S. Route 50 over the Ohio River and historic Blennerhassett Island. The longest bridge in West Virginia, the structure has a total length of 4008’-9”. Led the performance of a hands-on inspection of every element of the structure which included the Ohio approach (three-span steel girder unit with a total length of 489’-9”), main span (878’-6” network tied-arch unit that crosses the main channel of the Ohio River) and WV approaches consisting of an eight-span steel girder unit (total length of 2,624’-10½”). He also planned the inspection, safety, subcontractor coordination/contracting, and traffic control; wrote the inspection report; developed the element level data; and updated the SI&A coding. Presently leading the load rating of this structures using LARSA 4D and AASHTOWare BrR software.			

12/21-01/22	PennDOT, Linden Street Bridge over Lackawanna River, Scranton, PA – Load rater for the superstructure (steel girder) and substructure load rating using LRFR.
12/21	LADOTD, Contract No. 44-13321; H.09730.5 Retainer Contract for In-depth Bridge Inspections (On-System), Statewide – Team Leader responsible for the routine and element level inspection of the I-10 over Calcasieu River truss bridge . He inspected the deck, steel superstructure (girders, floor beams, stringers, bearings), steel substructure (bent caps, columns, diagonal bracing, gusset plates) using aerial access equipment. He wrote the inspection report defect list and updated the drawings for the defects.
11/20-11/20	General Engineering Services Contract, Franklin County Engineer’s Office (FCEO), OH – Team Leader responsible for 17 bridges. He led the field inspection and wrote the inspection reports in AssetWise in accordance with NBIS and ODOT standards.
12/19-12/20	LADOTD, Contract No. H.012485.1 Off-system Load Rating, Statewide, LA – Load rating engineer responsible for load rating of 300 off-system bridges (COSLAB, COPCSS, steel and concrete girders, culverts). He rated the concrete panel and slab superstructures using AASHTOWare BrR software and timber pile substructure units using Excel and STAAD. He was the responsible engineer for over 50 bridge load rating reports. The load ratings were performed using the current <i>AASHTO Manual for Bridge Evaluation</i> and <i>DOTD Policies and Guidelines for Bridge Rating and Evaluation</i> . He provided repair recommendations for bridges with 3 ton or closure ratings.
10/19-03/20	Off-system Bridge Load Rating, South Carolina Department of Transportation, Statewide, SC - Load rating engineer responsible for the load rating of several off-system bridges in South Carolina. He used AASHTO BrR for the concrete superstructures, load rated the substructure elements, issued posting recommendations, and updated NBI data.
04/18-12/19	LADOTD, Contract No. 4400004920 (H.009859.5) Complex Load Rating and Inspection, Statewide, LA – Performed load ratings and inspections of complex bridge structures that included trusses and movable (vertical lift, bascule, swing) bridges. Services included: Plan and document retrieval and review; Bridge inspection; and Structural modeling and analysis. Load Rated each assigned bridge based on present condition, capacity and loading using the load rating provisions in the current <i>AASHTO Manual for Bridge Evaluation</i> and <i>DOTD Policies and Guidelines for Bridge Rating and Evaluation</i> . Also peer reviewed ratings.
10/18-12/18	WVDOH, I-70 Bridge Rehabilitation, Ohio County, WV – Team leader for the rehabilitation bridge inspections of four steel multi-girder bridges carrying I-70 EB and WB. He ensured the completion of thorough condition documentation as well as geometric inventory measurements to provide information for the rehabilitation of each structures. He also participated in the preparation of rehabilitation plans for the bridges.
11/18-12/18	WVDOH, Kanawha Falls Bridge, Kanawha Falls, WV – Team leader for the emergency bridge inspection a 90-year-old, three-span, riveted through truss over the Kanawha River. He led and performed the inspection of the entire floor system to verify conditions and to advise if additional emergency repairs were required. He led and performed an inspection of the truss lower chords and stringers looking for critical findings that might require immediate repair or preclude the bridge from reopening. A hands-on inspection of the lower chords and floor beam to lower chord connections was also conducted. He developed and submitted an inspection report.
10/17-02/18	Office of State Aid and Construction, Bridge Inspection and Off-system Load Rating Contract, Statewide, MS - Load rating engineer responsible for the performance of load rating analyses on the timber substructure elements of 160 off-system bridges in Lincoln, Pike, and Amite counties. He analyzed timber and concrete substructure components in compliance with the AASHTO MBE. This load rating effort was completed on an accelerated schedule.
10/12-09/17	West Virginia Division of Highways, Charleston, WV – Bridge engineer/load rater/bridge inspector while employed by the WVDOH. His responsibilities included the load rating of trusses, steel deck girders, steel box beams and simple span bridges ; performance of QA/QC on load ratings; development of the load rating policy for the State’s load rating program; review of consultant load rating reports; and teaching classes on load rating to State bridge engineers. He also served as a team member during the inspection of several complex girder and truss bridges, including I-470 over the Ohio River and the Hi Carpenter Memorial Bridge over the Ohio River, and during routine inspections of other bridges throughout the state.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Nichole Caiazzo, P.E.		Years of relevant experience with this employer	11
Title	Bridge Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2008 / Civil Engineering	
Active registration number / state / expiration date			#PE.0041078 / LA / 03-31-2027	
Year registered	2016	Discipline	Civil Engineer Other Pertinent Training / Certifications FHWA-NHI-130092 – Fundamentals of LRFR for Bridge, 2016 FHWA-NHI-132082 – LRFD for Highway Bridge Substructures, 2018 FHWA-NHI-132010B – LRFD for Foundation Design, 2018	
Contract role(s) / brief description of responsibilities			Load Rating / Bridge Rehabilitation Design Nichole has over 18 years of experience in the discipline of civil engineering which has been focused on the inspection, design and review processes associated with new bridges and bridge maintenance and repair, as well as the load rating of new, existing and rehabilitated bridges. Over the course of accumulating her experience, she has gained experience with designing, detailing and analyzing highway bridge elements and is adept with the use of such software as AASHTOWare BrR (formerly Virtis), MDX, Merlin-DASH, LEAP Conspan, LEAP RC-Pier, FB-MultiPier, LARSA 4D, Consys, GTStrudl, and STAAD.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/23-Present	Ohio Department of Transportation, VAR-STW-Statewide Load Rating - Performing checks and load rating of reinforced concrete slab bridges using AASHTOWare BrR software.			
11/19-12/20	LADOTD, Contract No. 4400004920 (H.012485.1), Complex Off-system Bridge Rating and Evaluation, Statewide, LA – Responsible for the inspection and load rating of 346 off-system bridges (COSLAB, COPCSS). She performed load rating analysis using LRFR with AASHTOWare BrR for the superstructures and substructures (timber and concrete piles). Provided repair recommendations for bridges with 3-ton or closure ratings.			
05/19-12/21	South Carolina Department of Transportation, Bridge Load Rating and Evaluation Services – District 4, SC - Engineer-of-record, load rater and reviewer responsible for reviewing as-built plans and recent inspection reports, and completing load capacity ratings and related tasks for 60 on- and off-system bridges consisting of steel plate girder, prestressed cored slab, reinforced concrete flat slab, and reinforced concrete precast panel superstructures. The load rating was performed using AASHTOWare BrR in accordance with the SCDOT Load Rating Guidance Document and AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) and Load Factor Rating (LFR) methods. Also led the load rating QA process.			
09/21-11/21	City of Bossier City, Walter O. Bigby Carriageway, Bossier City, LA - Bridge engineer responsible for the review of shop drawings for the steel girder superstructure of a new 1,550-foot, 10-span bridge. The structure consists of a horizontally curved, haunched 4-span steel plate I-girder main span continuous unit over the Union Pacific Railroad and prestressed concrete bulb tee approach spans.			
04/16-06/19	LADOTD Contract No. 4400004920 (H.009859.5) On-system Complex Load Rating, Statewide, LA – Bridge engineer for the load rating of movable and complex truss bridges using AASHTOWare BrR in accordance with the AASHTO Manual for Bridge Evaluation (MBE), the Load Resistance Factor Rating (LRFR) method, and DOTD Policies and Guidelines for Bridge Rating and Evaluation. Bridges that she load rated included LA 670 over Bayou Teche (swing bridge) , LA 47 over IWGO (tied arch, deck truss, steel & concrete girder, concrete slab) , US 90 Business Riverbound Expressway (deck truss and steel plate girder, floorbeams, stringers, gusset plates) , and I-220 over Russell Road (steel plate girders) . She load rated reinforced			

	concrete slab approach spans and open steel grid decks, along with portions of the main span, stringers and floorbeams in the main span, and reinforced concrete bent caps. She used AASHTOWare BrR, CONSYS software and Mathcad hand calculations to load rate open steel grid decks, floorbeams, stringers, and concrete bent caps. Developed influence lines for existing and new girders, as well as hammerhead bent caps using AASHTOWare BrR software.
08/22-05/25	WVDOH, Coalfields Expressway Pineville to Mullens Section, Wyoming County, WV - Project involved the study, design and preparation of contract plans for the Coalfields Expressway project from the access at Pineville to Mullens (8.2 miles). Included in the work is the preparation of TS&L documents and final detail bridge plans for the Still Run Bridge (1,138', 4-span steel plate girder bridge, 260' +/- above the creek/valley floor) and the Marsh Fork Bridge (91.5', single span steel plate girder bridge). Responsibilities have included design of the 206 foot long reinforced concrete box culvert that carries Meadow Fork under Twin Falls Connector. Tasks also included wingwall design, quantity calculations, preparing cost estimate and plan preparation. Responsibilities for the Still Run Bridge included checking quantities and cost estimate for the Span Arrangement Report.
04/19-12/20	South Carolina Department of Transportation, SCDOT Bridge Inspection and Evaluation Services – Engineer-of-record and load rater responsible for reviewing as-built plans, recent inspection reports and completing load capacity ratings and related tasks for 10 on- and off-system bridges consisting of prestressed concrete beam, reinforced concrete tee beam and steel plate girder superstructures. Load rating was performed using AASHTOWare BrR in accordance with the SCDOT Load Rating Guidance Document and AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) and Load Factor Rating (LFR) methods.
05/18-07/18	West Virginia Department of Transportation-Division of Highways, Henrietta Bridge Renovations, Calhoun County, WV - Bridge engineer responsible for reviewing the load rating of the 3-span superstructure replacement consisting of continuous steel beams superstructure on repaired substructure. Load rating was performed using MDX in accordance with the AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) method and the WVDOH Bridge Design Manual.
08/18-09/19	WVDOH, I-70 Bridges Rehabilitation, Ohio County, WV and Belmont County, OH - Project involved the rehabilitation/replacement of seven (7) bridges along I-70 using cursory inspection information, discussions with the WVDOH, and analysis to establish rehabilitation efforts in accordance with WVDOH/ODOT manuals and standards. Performed design and analysis in accordance with AASHTO LFD Standard Specifications for analysis of existing bridges and LRFD for new bridges and repairs of existing bridges. Tasks for this project included: I-70 (EB & WB) over Wheeling Creek (Elbys Bridges) : Responsible for using RC-Pier for the substructure analysis of two (2) bridges consisting of a 7-span steel plate girder superstructure supported by reinforced concrete abutments with steel piles, multi-column piers on spread footings with steel piles, multi-column piers on caissons and spread footings with concrete piles and multi-column piers with a crash wall on spread footings. Bearings were replaced at all expansion piers and the cap was built-up at the overhang to resolve existing shear issues. Current and proposed thermal loads were modeled to compare cap, column and footing deficiencies. I-70 (EB & WB) over Wheeling Creek (Cemetery Bridges) : Bridge engineer responsible for using RC-Pier for the abutment analysis and checking the pier analysis of these two (2) bridges consisting of a 3-span steel plate girder superstructure supported by reinforced concrete abutments with steel piles and wall piers with spread footings. I-70 over Wheeling Creek (BEL-70) : Bridge engineer responsible for using RC-Pier for the pier analysis of this bridge consisting of a 7-span steel beam superstructure supported by multi-column piers with some caissons (wider columns) on spread footings with steel piles. The superstructure changed from 13 to 10 beams and the bearings were replaced.
02/09-12/12	Virginia Department of Transportation, NOVA Limited Services Maintenance and Repair Contract – Northern, VA - Assigned to various task orders that involved the repair and/or widening of bridge substructures and superstructures due to collision damage, fire damage, flood damage, scour, traffic demand, corrosion and section loss. Assisted with the performance of site inspections and preliminary study reports, as well as prepared and reviewed design calculations associated with the completion of substructure and superstructure repairs and/or replacements involving temporary supports for beam replacement and painting, joint reconstruction, bearing replacement, pedestal reconstruction and deck replacement. Generated preliminary, as-built and revision plans. Repair methods included heat straightening, wet and dry shotcrete, scour countermeasures, and temporary and accelerated bridge systems. Also aided in quantity calculations and cost estimate preparation.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Michael Schrepfer		Years of relevant experience with this employer	20
Title	Inspection Team Leader / Practice Safety Leader		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			ME / 1998 / Coastal Engineering BS / 1990 / Ocean Engineering	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	Other Pertinent Training / Certifications FHWA / NHI #130055 - Safety Inspection of In-Service Bridges, 1994 FHWA / NHI #130053 – Bridge Inspection Refresher Training, 2024 FHWA – SNBI Training, 2024 FHWA / NHI #130078 – Fracture Critical Inspection Techniques for Steel Bridges and Refresher, 2009/2024 FHWA / NHI #130110 – Tunnel Safety Inspection, 2017 (Refresher 2021) FHWA / NHI #130087A - Inspection of Ancillary Highway Structures, 2024 LADOTD Movable Bridge Inspection Workshop, 2012 LADOTD Maintenance and Rehabilitation of Historic Bridges, 2016 LTAP – Inspection of Local Bridges, 2022 ATSSA - Traffic Control Supervisor, 2024 and Flagger, 2024	
Contract role(s) / brief description of responsibilities			Bridge Inspection Task Leader/Inspection Team Leader Michael possesses 35 years of experience and progressive responsibility with the performance of a wide variety of above and underwater facility inspections throughout the United States and in overseas locations that have included waterfront structures, bridges and military facilities. The types of bridges he has inspected consist of concrete and masonry arches, simply supported and continuous concrete, steel and timber girder, steel trusses, fracture critical, and movable. Over the course of conducting his work, Michael has operated a wide range of equipment including digital photography and video, various sized watercraft, commercial diving equipment, non-destructive testing equipment, bucket trucks and Snoopers, and fathometers.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/25-Present	LADOTD, S.P. No. 44-21515; Movable Bridge Inspection, Iberia and Terrebonne Parish, LA – Team Leader performing in-depth and NSTM inspections of 5 swing bridges. Led all structural, electrical, mechanical, plumbing, architectural, and coating assessment inspections. Wrote the element level report in InspectX and the SNBI coding for each bridge. Coordinated and managed the traffic control, inspection boats, and safety operations.			
11/21-01/22	LADOTD, S.P. No. 44-17264; H.011965.5, LA 47 over IWGO, Bridge Rehabilitation, New Orleans, LA – Senior team leader performing the bridge cleaning/washing inspection for the rehabilitation design of this tied arch/deck truss bridge. He led the cleaning operations and subs with use of manlift, platform truck, snooper truck, and safety boat. He supervised traffic control, safety operations, and wrote the inspection and cleaning reports.			
02/16-12/19	LADOTD, 44-4920 (H.009859.5), Complex Load Rating and Inspection, Statewide, LA – Senior team leader for the load rating inspections of 15 complex truss and moveable bridges over major waterways. The bridges included the steel tied arch truss bridge LA 47 over IWGO, riveted plate girder and deck truss Riverbound Expressway (US 90B), and 5 movable bridges: Intracoastal Waterway Bridge at Ellenders (vertical lift), LA 654 over Bayou LaFourche (vertical lift), LA 657 over Bayou LaFourche (vertical lift), LA 319 Intracoastal Canal Bridge (bascule), LA 83 over Patout Bayou (swing), Local Road over Bayou Terrebonne (swing), Bridge over Bayou Teche at Adeline (swing). He planned, coordinated with state and local agencies (DOTD,			

	USCG, LSP) and managed traffic control, special aerial access, and rope access teams; developed the safety plans, and led the inspection teams. The inspections involved the use of special access equipment such as manlifts, snoopers, boats, confined space entry, as well as coordination for bridge openings with marine traffic during the inspections. He directed the document search and collection of as-built plans, bridge inspection reports, and other historical documents in hard copy and electronic format. He managed the project accounting and subcontractors. He performed QA/QC of the inspection reports.
03/16 – 08/23	LADOTD, Contract Nos. 4400005960 and H.013321 Complex Bridge Inspections – Senior team Leader for the in-depth inspections of complex bridges that included trusses and movable bridges . These bridges included: I-10 Mississippi River, I-10 Calcasieu River, US 190 Mississippi River bridges (cantilever and deck truss), I-310 Luling (cable stayed/box girder) and US 90 over IHNC, Danziger Bridge (vertical lift), LA 1 over Company Canal (vertical lift), LA 23 over ICCW (vertical lift), LA 39 Claiborne over IHNC (vertical lift through truss). He led inspection teams during the inspections and operated various equipment including a bucket truck, manlifts, bucket boat and snoopers. He wrote the inspection reports in DOTD AssetWise format, developed element level quantities and condition states, and SI&A data. He searched for bridge plans and inspection reports from the DOTD Plans and Microfilm Rooms. He developed project safety plans and inspection schedules for multiple inspection teams. He coordinated with 8 th Coast Guard District to obtain permits and notice to mariners. Performed all traffic control coordination, reviewed and submitted traffic control plans, and worked directly with DOTD Districts to obtain permits and provide notice to the traveling public for bridge inspections under multiple task orders.
09/14-12/14; 01/15-03/15	LADOTD, Movable Bridge Inspections, LaFourche Parish, LA – Senior team leader for the special above and underwater inspections of two pontoon bridges to develop repair and maintenance plans and documents. He planned the logistics, scheduling, and inspection operations. He led the field inspections and performed the diving, inspection report writing and repair recommendations.
12/12-04/13	LADOTD, S.P. No. 002562.5 – Bayou LaLoutre Bridge Rehabilitation, St. Bernard Parish, LA – Senior Team Leader for the special rehabilitation inspection of this vertical lift bridge . He planned, coordinated with state and local agencies and subcontractors (including traffic control), and led inspection team. Used special access equipment such as manlifts and coordination for bridge openings with marine traffic during the inspection. He performed ultrasonic NDT of the primary steel members and thermal imaging of the concrete deck. He directed the search and collection of as-built plans, bridge inspection reports, and other historical documents in electronic format located at DOTD and General Files. Performed coordination with 8 th Coast Guard District to provide notice to mariners. Inspected and corrected traffic control patterns and operations daily during the inspections.
08/09-11/09	LADOTD, 44-0641 (700-99-0429) / H.005330.5 (701-65-1215) Little Caillou and Bayou LaCarpe Bridges, Houma, LA – Senior Team Leader for the special rehabilitation inspections of two vertical lift bridges . He planned, coordinated with state and local agencies and subcontractors (including traffic control), and led the inspection teams and in-house traffic control operations. The inspection involved the use of special access equipment such as manlifts and coordination for bridge openings with marine traffic during the inspection. He managed the project safety, accounting and subcontracts. He performed all traffic control coordination, reviewed and submitted traffic control plans, and worked directly with DOTD Districts to provide notice to the traveling public. He inspected and corrected traffic control patterns and operations daily during the bridge inspection operations. He directed document searches and collection of as-built plans, inspection reports, historical documents on DOTD databases, Section 51 office, and General Files.
05/12-05/16	LADOTD, Contract No. 4400002184, Bridge Preventative Maintenance Program - Senior Inspection Team Leader for the special rehabilitation inspections of 26 highway bridges to develop maintenance repair plans. He planned and coordinated the inspections which included traffic control and special access equipment. He wrote the inspection reports and recommended bridge repairs. He directed the search and collection of as-built plans, bridge inspection reports, and other historical documents located on the DOTD database, Section 51 Bridge Maintenance office, and DOTD General Files. Performed all traffic control coordination, reviewed and submitted traffic control plans, and worked directly with DOTD Districts to obtain permits. Inspected and corrected traffic control patterns and operations daily during the bridge inspection operations.
01/06 – 12/08 02/10 – 02/12	LADOTD, S.P. No. 700-99-0354 and 700-99-0510 - Crescent City Connection Bridges and Facilities, Orleans Parish, LA – Senior Team Leader for the routine, special, damage inspections of 120 bridges included cantilevered thru trusses over the Mississippi River, steel deck trusses, steel plate girders, and box girders over the Harvey Canal. He planned inspections, retrieved bridge plans and historical inspection documents, coordinated with state and local agencies and subcontractors (including rope access and traffic control), resourced the project, wrote the safety plan, and led inspections for 2 cycles. He managed project safety, accounting and subcontracts. He wrote and edited inspection reports, performed QA/QC of inspections. Inspections involved use of special access equipment (snooper, bucket trucks, manlifts and technical rope access climbing).

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Craig Jacob, P.E.		Years of relevant experience with this employer	4
Title	Bridge Engineer		Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization			B.S. / 1999 / Civil and Environmental Engineering	
Active registration number / state / expiration date			#PE.68866 / OH / 12-31-2027	
Year registered	2004	Discipline	Civil Engineer	
			Other Pertinent Training / Certifications FHWA / NHI #130053 - Bridge Inspection Refresher Training, 2022 FHWA / NHI #130055 - Safety Inspection of In-Service Bridges, 2005 FHWA / NHI #130078 – Fracture Critical Inspection Techniques for Steel Bridges, 2017	
Contract role(s) / brief description of responsibilities			Bridge Inspection / Load Rating / Bridge Rehabilitation Design Craig possesses over 26 years of full-time experience in the analysis, design and inspection of state and local transportation infrastructure on highways, interstate routes, county roads, and municipal projects using AASHTO LRFD and LFD standards. He is a bridge designer with experience in various uncommon elements of Level 3 bridges, including complex framing geometries and structure alignments, dog-legged girders, welded steel box pier caps, and truss analyses. Craig also retains advanced expertise in design calculations and accurate structural modeling for the production of quality bridge plans, improvement details, and load rating evaluations.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/22-Present	Ohio Department of Transportation – District 12, CUY-77-1121, Cuyahoga County, OH - Lead Structural Engineer for this project which involves a realignment and shoulder widening for safety improvements along I-77 in the Cleveland urban corridor. Serving as lead structural engineer on the design and plan production for nine new retaining walls and the reconstruction of two underpass bridges within the project limits to facilitate realignment of the interstate.			
06/22-10/24	Ohio Department of Transportation – District 11, HAS-151-0485 Design-Build, Harrison County, OH - Structural Engineer for this Design-build contract involving a complete replacement of the bridge carrying SR 151 over the G&W Railroad. The overpass alignment is highly skewed to the railroad alignment. The proposed structure follows the existing alignment but constructs one straddle bent over the railroad, instead of the six straddle bents of the existing bridge. Responsibilities include design development, quality review, and plan production.			
11/22 - 08/23	Ohio Department of Transportation, Statewide Load Rating, OH – Load rater performing LRFR and LFR ratings of steel beam and plate girder bridges. Reviewed completed ratings of bridges.			
04/22 – 05/22	US 50, Blennerhassett Island Bridge, Parkersburg, WV – Bridge Inspector while using aerial access equipment to inspect the superstructure main span (tied arch) and approach spans (steel girder) components along with the bearings and piers.			
09/21	ODOT, HAM-71-0134 Lytle Tunnel NTIS Inspection – Team Leader for a condition and element level inspection of the liner, headwalls, approach wingwalls, and structural components of facility chambers in the 855-foot long, 3-barrel tunnel of I-71 below Lytle Park in Cincinnati.			
06/20-09/21	Ohio Department of Transportation, CRA-30-0842 Bridge Rehabilitation, Crawford County, OH - Lead Design Engineer for a preliminary engineering study and subsequent plan production for deck replacement, abutment conversion and fatigue retrofit on left and right structures over Norfolk Southern Railroad. The design accommodated a curved alignment, deck width transition, flared beams, and spiral curve geometry.			

02/21 - 03/21	Indiana Department of Transportation, I-74 Emergency Bridge Repair - Crawfordsville District - Engineer of Record for a damage inspection, repair design, and bridge details to correct vehicular impact on the steel beam superstructure of Wesley Station Road over I-74.
01/20-12/21	KYTC, Ohio River Fracture Critical Bridge Inspection Services – Project Manager and Inspection Lead for the fracture critical inspection of five long-span Ohio River bridges. The structures in the contract are the historic Roebling Suspension Bridge (Cincinnati, Ohio), the Irvin Cobb Bridge (Paducah, Kentucky), the Carroll Cropper Bridge (Lawrenceburg, Indiana), the Ben Williamson Bridge (12th Street Ashland, Kentucky), and the Simeon Willis Bridge (13th Street Ashland, Kentucky). He led the load rating evaluation of the Carroll Cropper Bridge, a complex tied arch thru truss with suspender cables, based on as-inspected condition while using AASHTOWare BrR, LRFR and other software. Also authored the capacity evaluation report. He managed the execution of the project, coordinated with railroads and a traffic control subconsultant, communicated with Cabinet and District engineers, directed inspection staff, and updated the condition and element level records in the state inventory database (BrM). He led or reviewed deliverable reports on noted structural conditions and maintenance recommendations, including documentation of fatigue cracks verified with NDT.
10/19-10/20	South Carolina Department of Transportation, Bridge Load Ratings, SC - Task Leader and Quality Control Reviewer for a team of analysts during the load rating of more than 200 bridges in two South Carolina districts using AASHTOWare BrR and LRFR method. Work included the production of load rating documentation as engineer-of-record for the state bridge management system.
04/13; 04/17	KYTC, Ohio River Fracture Critical Bridge Inspection Services – Team leader for a fracture critical inspection of the 5,340-foot-long Irvin Cobb Bridge (Paducah, Kentucky) which consists of ten main simple-span thru truss units with a maximum span length of 716 feet across the Ohio River.
06/12; 06/16	KYTC, Ohio River Fracture Critical Bridge Inspection Services – Team leader for a fracture critical inspection of the 5,746-foot-long Clark Memorial Bridge (Louisville, Kentucky). The bridge consists of two adjacent 3-span continuous thru truss superstructure units with a maximum span length of 820 feet across the Ohio River.
09/11-03/12	Brown County Engineers Office, Truss Load Ratings - Brown County, OH - Lead inspector and structural analyst for the condition evaluation and documentation of deterioration on 10 pony truss structures maintained by the County Engineer's Office. Assessments included field measurements to verify as-built configuration and current deterioration of steel gusset plates. He also processed the condition information to perform a capacity evaluation of the truss members and gusset plate connections.
08/11-10/11	Ohio Department of Transportation, District 8, CLI-71-4.26, SR 380 over IR 71 Bridge Rehabilitation, Wilmington OH - Lead Bridge Inspector, Designer, and Load Rating Analyst for a deck replacement on the existing steel plate girders of SR 380 over IR 71 with semi-integral and composite conversion.
07/11	Kentucky Transportation Cabinet, Inspection of Ohio River Bridges - Inspection Team Leader on the Simon Kenton Memorial Bridge (US 62/68) to assess fracture critical members, measure gusset plate deficiencies, and appraise the entire suspension bridge for condition rating and repair/maintenance recommendations.
03/10; 04/11; 02/12	City of Middletown, Bridge Inspection and Analysis, Middletown, OH - Lead Engineer for the structural inspection, scour inspection, and load rating of 20 off-system bridges and large culverts in the municipality. Reviewer of annual city bridge inspections.
11/07-04/08	Ohio Department of Transportation, District 6, FRA-23-12.11, 4th Street Bridge over the NS Railroad and I-670, Columbus, OH - Inspection Team Leader and load rater for the seven-span bridge which consists of dog-legged steel beams, varying substructure skews, left and right horizontal curves with super-elevation reversal, and cantilevered structural concrete beams on abutment wingwalls.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Paul Misch Jr., P.E.		Years of relevant experience with this employer	22
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			M.S. / 1999 / Civil Engineering B.S. / 1996 / Civil Engineering	
Active registration number / state / expiration date			#PE.0034416 / LA / 09-30-2027	
Year registered	2009	Discipline	Civil Engineer Other Pertinent Training / Certifications NHI Course #130055, Safety Inspection of In-Service Bridges, 2005 NHI Course #130053, Bridge Inspection Refresher Course (2015) NHI Course #130056 – Safety Inspection of Bridges for Professional Engineer, 2024	
Contract role(s) / brief description of responsibilities			Bridge Rehabilitation Design / Bridge Inspection Paul offers more than 28 years of new and rehabilitation bridge design experience which has encompassed the design and detailing of steel and concrete superstructures, as well as substructure design, including integral and semi-integral abutments, hammerhead and rigid frame piers, steel piling, drilled caissons and spread footings. In addition, he has designed temporary works for bridge contractors.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/18-02/19	WVDOH, I-70 Bridges, Rehabilitation of Greenwood Bridge WB & EB (I-70 WB & EB Over Wheeling Creek), Ohio County, WV - Member of the design team that developed rehabilitation plans for these curved and skewed steel girder bridges having span lengths of 89’-137’-83’. Responsible for detailing modifications to the bridges for conversion to semi-integral abutments. Detailed demolition limits for the existing abutment backwalls and portions of the wingwalls. Developed plan details for new shear blocks and concrete end diaphragms to be built in phases for maintenance of traffic purposes. Also detailed modifications to existing steel end crossframes for embedment in the new concrete end diaphragms.			
03/18-02/19	WVDOH, I-70 Bridges, Rehabilitation of Elby’s Bridge WB & EB (I-70 WB & EB Over Ramp B, Ramp C and Wheeling Creek), Ohio County, WV - Member of the design team that developed rehabilitation plans for the seven span, steel rolled beam bridges with span lengths ranging from 39’ to 92’. Responsible for detailing modifications to the bridges for conversion to semi-integral abutments. Detailed demolition limits for the existing abutment backwalls, pedestals and portions of the wingwalls. Developed plan details for new shear blocks, pedestals, concrete end diaphragms and end zone regions of the deck slabs. Also detailed modifications to existing steel end crossframes for embedment in the new concrete end diaphragms.			
06/13-04/15	WVDOH, Phill G. McDonald Memorial Bridge Rehabilitation, I-64 Over Glade Creek, Raleigh County, WV – Bridge Design Engineer responsible for developing the rehabilitation plans for this five-span (125’-560’-784’-560’-150’) bridge consisting of a three-span continuous steel deck truss and two welded plate girder approach spans. The overall bridge length is 2,179' with a roadway width of 72'. Tasks included bearing replacements, strip seal deck joint replacements, neoprene trough replacement at finger joints, addition of gusset plate stiffening angles, miscellaneous bolt replacements, bird screen repairs, addition of chord member drain holes, spot painting, concrete patching/crack sealing on the deck and piers, and pier door replacements.			
03/14-06/15	WVDOH, Kanawha Falls Bridge Rehabilitation, County Route 13 over Kanawha River, Fayette County, WV – Bridge Design Engineer responsible for developing rehabilitation plans for this historic (1928) four-span (265’-400’-265’-73’) bridge which consists of three through trusses, a rolled beam approach span and a roadway width of 21.5'. Tasks included compiling quantities, designing a phone conduit system and an 8” diameter waterline			

	connection to the floor system, checking of the span 4 deck slab design and coordinating the development of rehabilitation plans between four (4) design offices.
07/12-07/12; 07/15-07/15; 07/16-07/16	WVDOH, Fifth Street Bridge, Wood County, WV - Team Leader for the in-depth inspection of this 905' two-span Warren through truss over the Little Kanawha River and CSX Railroad. The inspection included fracture critical steel bents. He provided a written inspection report and CAD drawings of the deterioration.
10/11-10/11 10/12-10/12 10/14-10/14	WVDOH, Inspection of 35th Street Bridge and Ramps A & B, Kanawha County, WV – Team Leader performed an in-depth inspection of 8 welded steel plate girder spans and substructure consists of one full height reinforced concrete cantilever abutment and 9 two-column reinforced concrete pier bents. He provided a written inspection report and CAD drawings of the deterioration.
01/13-01/13	WVDOH, Kanawha Falls Bridge, Fayette County, WV – Participated in the in-depth inspection as part of a rehabilitation of this three-span (265 feet-400 feet-265 feet) through-truss and simple span two-girder plate girder bridge over the Kanawha River, CSX and Norfolk Southern Railroad and County Route 13/2. All elements of the bridge were either verified from shop drawings or documented when no existing information was available.
05/11-05/11 08/12-08/12	WVDOH, I-470 Approach Bridges Inspection, Ohio County, WV - Inspector performing an in-depth inspection of this 29-span twin-bridge structure which consists of multiple continuous spans of welded steel plate girders. The bridge has concrete hammer-head piers, two-column concrete piers with fracture critical steel pier caps, and a full height abutment. The overall length is 3545 feet.
09/05-08/10	WVDOH, Phill G. McDonald Memorial Bridge Inspection over Glade Creek, Raleigh County, WV - Team Leader performed in-depth and routine inspections for 5 cycles of this five-span bridge which consists of a three-span steel deck truss and two-span welded plate girders. He performed a load rating analysis of the gusset plates using the LFR method for the three-span steel deck truss bridge. This bridge is regarded as one of the highest truss bridges in the world.
10/03	WVDOH, Veteran's Memorial Bridge Inspection, Brooke County, WV – Assigned as an Inspector to perform periodic inspection of this cable-stayed bridge spanning Ohio River. The bridge consists of a single 360' inverted Y-shaped concrete tower. Twenty-six (26) paired cables reach across the 690-foot West Virginia back span and the 820-foot main river span to two Ohio approach spans of 314 and 140 feet. He inspected the concrete deck, steel superstructure, approach span piers and portions of the concrete tower.
02/13-02/14	WVDOH, WV Thomas Buford Pugh Memorial Bridge Replacement (WV Rt. 41 Over the New River), Fayette County, WV - Responsible for the Superstructure Type, Size and Location Study for this three-span (217'-250'-190'), curved steel plate girder bridge. Tasks included framing plan development and preliminary design of steel girders with 125' radii and sharply skewed abutments.
06/11-08/14	WVDOH, Bridge Street Bridge Replacement, Taylor County, WV - Responsible for preliminary studies and the final design of this two-span (173'-130') steel plate girder bridge carrying Bridge Street over the Three Fork Creek and CSX Railroad in the City of Grafton, WV. Tasks included designing steel plate girders, deck slab, rigid frame concrete pier with drilled caissons, extensive MSE wall layouts, conceptual bridge demolition and erection schemes over several CSX rail lines. Also checked the design for the integral abutments founded on steel H-piles.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Janet Crouse, P.E.		Years of relevant experience with this employer	12.5
Title	Senior Roadway Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2003 / Civil Engineering	
Active registration number / state / expiration date			#PE.0040798 / LA / 09-30-2026	
Year registered	2016	Discipline	Civil Engineer	
			Other Pertinent Training / Certifications ATSSA – Traffic Control Design Specialist ATSSA – Traffic Control Supervisor (10/18/2024 – 10/18/2028)	
Contract role(s) / brief description of responsibilities			Roadway Design / MOT Task Leader Ms. Crouse’s nearly 20 years of experience as a project engineer includes work on such projects as interstate highways, state and local roads, and site development parcels. Project tasks have included geometric design, drainage and site design, development of erosion control, signing and marking, and right of way plans. Offering more than 10 years of experience with Louisiana roadway design, she is very familiar with the latest applicable DOTD references, including the latest applicable editions, supplements and revisions.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/20-Present	LADOTD, S.P. No.: H.005121.5, LA1/LA415 Connector, West Baton Rouge Parish, LA – Roadway Design Engineer for the LA 1/LA 415 CMAR project involving 2.7 miles of new four-lane roadway with bridge crossings over the Gulf Intracoastal Waterway, Sun Plus Parkway, and LA 1. Responsible engineer-in-charge for developing roadway geometrics and plans for LA 415 beginning north of Court Street continuing south to the ICWW bridge crossing and includes the reconfiguration of the LA 415 connection at I-10 to a diverging diamond interchange with ramp modifications, as well as improvements to Court Street, Commercial Drive and a new Backage Road connection.			
11/14-Present	LADOTD, S.P. No. H.001234, Port Allen Canal Bridge, LA 1, West Baton Rouge Parish, LA – Roadway Design Engineer for the preliminary and final design of 2.26 miles of roadway associated with the bridge replacement of LA 1 over the Intracoastal Waterway. Project features 0.98 miles of new four lane roadway for LA 1 on new alignment, including a separate exit ramp for I-10 EB traffic, and coordination with the design of new 2,700’ twin bridges. Served as the responsible engineer-in-charge for the reconstruction of an existing frontage road, and a railroad at-grade crossing for Ernest Wilson Road and associated plan development. Also served as the responsible engineer-in-charge for the initial design and associated plan development which featured 1.27 miles of “Super Street” improvements to LA 1 that included the removal of eight median openings, four new signalized ”J-Turns” and left-turn storage. Developed MOT plans required to maintain four lanes of traffic on LA 1 with connections to the I-10 ramps. Project also included involvement with drainage design, geometric details, striping, joint layout, sequence of construction, cross sections, and quantities.			
08/15-01/21	City of Bossier, Walter O. Bigby Carriageway, Bossier City, LA – Served as the responsible engineer-in-charge for the design of North Parkway Extension roadway from North of Eatman Street to Benton Highway. Work included the design of two roundabouts at the intersections of Hamilton Road and Shed Road, the reconstruction of three side roads to tie into the new North Parkway Extension, widening of Hamilton Road from south of US 80 to the new roundabout, and the addition of a left-turn lane and driveway reconfigurations along Benton Highway. Total project length was approximately 5,300 feet of reconstructed city streets and 3,600 feet of new four lane roadway, which included a 1,470-foot bridge structure. Tasks involved the geometric design of the new alignment and roundabouts, the development of plan and profile sheets, geometric detail sheets, joint layout sheets, cross sections, quantities, and assistance with the storm drainage. Completed for the City of Bossier, all design work was completed in accordance with all applicable and current DOTD specifications and standards.			

10/12-09/14	LADOTD, S.P. No. H.011111, I-49 North – Preliminary & Final Bridge Plans, Caddo Parish, LA – Project Designer for engineering and related services for the bridge design and rating for the I-49/I-220 interchange bridges, specifically directional ramps EN, SE and WN, and the widening of existing I-220 bridges. Areas of responsibility included the design and plan sheet preparation for median barrier and barrier rail layout, bridge deck drainage, and quantity sheets, and design coordination with roadway design team and other team members.
06/21-07/22	City of Marble Falls, Avenue N Bridge at Backbone Creek, Marble Falls, TX - Design Engineer for the preliminary and final design of Avenue N bridge approaches. Tasks included the geometric design of bridge approaches; walk paths connecting new sidewalk to existing crushed granite trails and a new cul-de-sac at Backbone Street; and the development of roadway plan and profile sheets, walk path plan and profile sheets, quantities, and cross-section sheets.
04/23-09/23	Delaware County Engineers Office, DEL-CR98-01.58 Roundabout Design, Delaware County, OH – Roadway engineer for the preliminary design and layout of a roundabout to replace an existing 4-way intersection located at Piatt Road and Peachblow Road. Challenges included constraints due to right of way and existing drainage features. Areas of involvement included horizontal and vertical layout of roundabout and associated design checks, storm sewer and ditch design and development of Stage 1 plans using MicroStation ORD.
02/23-07/23	Mississippi Dept. of Transportation, SR 184 Bridge Replacement (BR 103.1), Prentiss, MS – Served as the responsible engineer-in-charge for the roadway design and final plan development of approximately 1,000 feet of two-lane roadway widening associated with a bridge replacement on SR 184. Areas of involvement included confirming the typical sections and proposed right-of-way that was developed during the preliminary design phase, along with final plan preparation that included guardrail design, ditch design, erosion control treatments, quantities, striping, construction signing and maintenance of traffic plans, cross sections and a construction cost estimate. Roadway plans were completed in MicroStation OpenRoads Designer (ORD).
06/14-10/14	West Virginia Department of Transportation, I-64 Design Study, Saint Albans Interchange, Nitro, WV - Responsible for providing engineering design during the preliminary layout for a diverging diamond interchange along I-64 at US 35 (St. Albans Interchange). The design included her review of the proposed traditional diamond interchange for US 35 and the layout of a diverging diamond interchange to improve traffic flow on ramps.
08/12-10/13	East Baton Rouge Parish, Old Hammond Highway Improvements, Segment 2, Baton Rouge, LA – Project Designer during the design of reconstruction work along Old Hammond Highway as part of the City’s Green Light Plan. Work consisted of the design for a new four-lane divided highway, intersection layout, roadway profiles, sub-surface drainage, sequence of construction drawings, and utility relocation including new 8” gravity sewer, a lift station and a force main. Task involvement included plan revisions and the development of drainage plans.
01/13-11/14	LADOTD, SPN# 44-2184, Louisiana Department of Transportation, Retainer Contract for Bridge Preventative Maintenance, Statewide - Responsible for providing engineering and related services under a retainer contract that involved the repair and/or preventative maintenance of bridge structures throughout the State of Louisiana. Task Order 1 involved bridges in East Baton Rouge, West Baton Rouge, East Feliciana and West Feliciana Parishes and included bridges on I-10, I-110, LA-1 and LA-67 crossing local roads and creeks. Areas of responsibility included preparing traffic control plans for several bridge sites as well as assisting in the preparation of general plan sheets, quantity sheets and other miscellaneous sheets.
10/08-05/11	GDOT, US 441/SR 15 Widening from Clayton County Limits to North Carolina State Line, Rabun County, GA - Project Designer for the conceptual and preliminary design associated with widening over 7 miles of roadway between the northern city limits of Clayton to the North Carolina State line. The project included both urban and rural typical sections for widening to a four lane divided facility. Retaining walls were required to limit right-of-way impacts due to the steep terrain. Context sensitive design solutions were utilized to reduce the property and socio-economic impacts in the municipalities of Mountain City and Dillard. Tasks included on this project were geometric design, roadway drainage design, hydraulic design of major culverts, design of bicycle and pedestrian facilities, preparation of staged construction and maintenance of traffic plans and preparation of erosion and sediment control plans.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	William Travis Barr, P.E.		Years of relevant experience with this employer	2
Title	Project Manager / Senior Project Engineer		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization			B.S. / 2012 / Civil Engineering	
Active registration number / state / expiration date			#PE.0045675 / LA / 09-30-2027	
Year registered	2021	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Roadway Design / MOT Mr. Barr has 14 years of experience and progressive responsibility in the fields of civil and roadway engineering consulting. His qualifications include extensive hands-on experience consisting of roadway geometrics, drainage design, cost estimating and project management. Having provided such services on several Louisiana roadway design projects, he is very familiar with the latest applicable DOTD references, including the latest applicable editions, supplements and revisions.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/24-Present	LADOTD, S.P. No.: H.005121.5, LA1/LA 415 Connector, West Baton Rouge Parish, LA – Serving as the Roadway Engineer-in-Charge for the LA 1/LA 415 CMAR roadway design project responsible for coordinating and managing the roadway design team. Key responsibilities include scheduling, task management, and overseeing design activities such as horizontal and vertical alignment, drainage systems, traffic maintenance, and layout planning for the LA 1 corridor, including the LA 1 and LA 415 interchange. Deliverables include preliminary layouts, design validation, calculations, and detailed plan preparation for the LA 1 roadway corridor.			
11/22-03/24	LADOTD, LA 447 Safety Improvements, Livingston Parish, LA - Served as responsible engineer-in-charge for the preliminary layout, design checks, calculations, and plan preparation for two (2) LA 447 highway roundabouts which included one multi-lane and one single-lane configuration. Mr. Barr additionally provided roadway design on adjoining roadway realignments.			
03/21-11/22	MOVEBR Transportation Program – Program Management, East Baton Rouge Parish, LA - Responsible for the management of eight projects in the program. Mr. Barr assisted in the leadership of each project through oversight of cost estimation, budgeting and adherence to design standards, as well focused on the overall constructability/feasibility of each project. As a part of his project management tasks, he assisted with the identification of project goals, economic development benefits, and overall feasibility.			
11/22-03/24	MOVEBR Transportation Program, Terrace Avenue, East Baton Rouge Parish, LA – Sr. Engineer responsible for project wide modeling, ADA design, Right of Way/ construction access, wall design and project wide drafting standards. Mr. Barr performed 1 mile of complex modeling within a confined urban corridor. Due to Right of Way restrictions, he also designed multiple retaining walls. The project is a corridor improvement project tasked with widened the roadway and adding sidewalks while not impacting right of way in the area.			
11/22-03/24	MOVEBR Transportation Program, Lee Drive, East Baton Rouge Parish, LA – Project Manager in responsible charge of quality control and assurance, geometric design, vertical design, site grading, suggested sequence of construction, scheduling, and construction cost development for a ¾-mile segment of this capacity improvement project. The overall project is a 2-mile roadway widening and drainage improvement project to establish a five-lane roadway corridor.			
03/17-03/21	Texas Department of Transportation – I-820 (SH-287 to I-20) Interchange Reconstruction (Southeast Connector Design-Build), Dallas, TX - Responsible for the evaluation of interstate plans, establishment of retaining wall locations to facilitate a proper sequence of construction, identification of bridge limits, and development of retaining wall structural requirements. He additionally produced exhibits, provided QA/OC of deliverables, coordinated			

	work with stakeholders, and presented findings to key stakeholders. Travis led weekly task force meetings with major stakeholders to present status, potential roadblocks, project timelines, design philosophies and approach.
03/17-06/20	Washington Department of Transportation, SR 520 (I-5 to 84th Avenue) Interchange Reconstruction Design-Build, Seattle, WA - In responsible charge for the evaluation of interstate plans, maintenance of traffic, and pier and wall locations to facilitate sequence of construction, alternative design analysis, production of exhibits, and QA/QC of deliverables. Additionally coordinated and presented his findings to key stakeholders.
05/24-12/205	Mississippi Department of Transportation, SR 184 Bridge Replacement, Jefferson Davis County, MS - Senior Roadway Design Engineer responsible for the horizontal, vertical, drainage, and maintenance of traffic design and layout of the SR 184 bridge replacement corridor. Design includes preliminary layouts, design checks, calculations, plan preparation, scheduling, and coordination with MDOT staff.
08/18-02/20	Border Patrol / United States Army Corp of Engineers, Tucson 63 Boarder Wall Reconstruction, AZ. Served as Roadway Design Task lead in responsible charge for this very fast paced project which included project wide design standards, specifications and design of the Douglas portion of the Tucson 63 project. Totaling over 20 miles of boarder wall design, access roads, and patrol roads the Douglas portion of the Tucson 63 project had some of the most treacherous and complicated portions of the border to design and construct. Travis managed three design teams, QA/QC activities, design of the line and grade, wall and retaining system selection, limits of construction/right of way, typical section, compliance with environmental guidelines, scope/fee estimation, and scheduling. Additionally led weekly task force meetings with major stakeholders, including representation from construction, design, and the owner, to present status, potential roadblocks, project timelines, design philosophies and approach each week. He also led comment resolution meetings with the owner and reviewing agencies to ensure proper closeout of each item.
12/14-04/17	Town of Edgewood, Walker Road Improvements, Edgewood, NM - Served as the project manager and primary designer, including roadway horizontal and vertical design, drainage facilities, sanitary sewer design, and ADA-compliant design. For the horizontal design, guidance from the AASHTO Green Book and NMDOT standards was used to layout intersections and alignments based on the designated design speed. Stopping sight distances were calculated, and the design vehicle was used to verify that the layout adhered to the specified criteria.
12/14-04/17	Town of Red River, Pioneer Road Rehabilitation, Red River, NM - Served as a Highway Designer for the Pioneer Road Rehabilitation project which involved roadway horizontal and vertical design, drainage facilities, and ADA-compliant design.
01/13-05/14	New Mexico Department of Transportation, Paseo Del Norte Interchange - Served as field engineer responsible for calculating design quantities, tracking completion and to date quantities for earthwork and road tasks. Tracked and maintained schedule and helped design earthwork flow and haul routes.

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.	
Name	Ja’Porcha Joubert, EI	Years of relevant experience with this employer	<1
Title	Roadway Designer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		B.S. / 2023 / Civil Engineering	
Active registration number / state / expiration date		#EI.0035872 / LA / 03-31-2027	
Year registered	2024	N/A	
Contract role(s) / brief description of responsibilities		Roadway Designer	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/26-Present	LADOTD, LA1/LA415 Connector, West Baton Rouge Parish, LA - Serves as an Engineer Intern for this project while tasked with the development of pavement marking plans. This project includes approximately 2.7 miles of new four-lane roadway and bridges over the Gulf Intracoastal Waterway, Sun Plus Parkway, and LA 1. This project also includes an interchange reconfiguration to a diverging diamond at the LA 415 connection to I-10 with ramp modifications, and the realignment of LA 1 to accommodate ramp configuration and future widening.		
08/23-12/23	East Baton Rouge Parish, Old Hammond Highway Improvements, Segment 2, Baton Rouge, LA - Served as a student intern for this project tasked with quantity calculations and final plan sheet revisions for the reconstruction work along Old Hammond Highway. This project involves the reconstruction of a two-lane highway to a four-lane divided highway and intersecting side roads as part of the City’s MoveBR Plan.		
01/24-03/26	LADOTD, Traffic Monitoring Section, Baton Rouge, LA – Employed as a Traffic Monitoring Engineer Intern 2. Responsibilities included assisting senior engineers with editing and creating Louisiana road and highway segments using ESRI Roads & Highways integration processes; coordinating with contractors to ensure work was completed in compliance with approved plans and specifications; supporting senior engineers by uploading, extracting, and managing traffic data within Transportation Data Management Systems (TDMS); and performing quality assurance and quality control (QA/QC) on traffic data uploaded to the DOTD’s traffic server.		

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Staci Danna, P.E.		Years of relevant experience with this employer	8
Title	Area Manager		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			M.S. / 2003 / Business Administration B.S. / 1999 / Environmental Engineering	
Active registration number / state / expiration date			#PE.0031561 / LA / 03-31-27	
Year registered	2004	Discipline	Environmental Engineer	
Contract role(s) / brief description of responsibilities			Permitting Support	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/18-Present	Commonwealth LNG LLC, LNG Export Terminal, Federal Energy Regulatory Commission (FERC) National Environmental Policy Act (NEPA) Environmental Report (ER) and Federal/State/Local Permitting, Louisiana - Continuing to provide comprehensive environmental support of the authorization process for the 9.5 MTPA Commonwealth LNG liquefaction and export facility, located on the west bank of the Calcasieu Ship Channel. Provided support for preparation of FERC ER in support of NEPA analysis for the NGA Section 3 Application (Docket No. CP19-502), agency consultations, and preparation of applications for USACE §404/§10/§408 authorization, Louisiana Department of Energy and Natural Resources (LDENR) Coastal Use Permit (CUP) and other federal/state/local permits. TRC prepared a Dredged Material Management Plan (DMMP) for the 1.7 million cubic yards of dredging required to construct the Project’s marine berth, coordinated with Duplantis Design Group (DDG) on design of a DMMP Area for management of the sediment under LDENR’s Beneficial Use of Dredged Material (BUDM) requirements (LAC Title 43, Part I, Section 723.H), and developed a Mitigation Plan for a 25-acre Marsh Creation Area (MCA) to offset impacts on 11.9 acres of brackish marsh. TRC also worked closely with Delta Land Services to secure compensatory wetland mitigation credits sourced from four banks to address impacts on 155.3 acres of emergent and forested wetlands.			
08/19-Present	Trunkline LNG, Lake Charles LNG Export Terminal, FERC NEPA and Federal/State/Local Permitting, Louisiana - Currently supporting extensions and modifications of permits and agency approvals/authorizations and maintaining tracking documents as the Project moves toward Final Investment Decision (FID). Construction began in February 2023. TRC originally provided the environmental support for the Project’s FERC Order, federal / state / local permitting, and initial construction phase in early 2016. The Lake Charles Liquefaction Project includes construction of liquefaction trains and appurtenant facilities at a site immediately north of Lake Charles LNG’s existing LNG import terminal in Calcasieu Parish, Louisiana.			
01/18-Present	Marathon Petroleum Company, Section 10/404 Permitting, Coastal Use Permitting and Pontchartrain Levee District Permitting, Garyville, Louisiana - Project Manager for the performance of environmental permitting services for multiple heavy haul transports over the Mississippi River Flood Protection Levee at the Garyville Refinery. Activities included obtaining a CUP from the OCM, a Section 10/404 Permit from the New Orleans District USACE, Louisiana Department of Environmental Quality (LDEQ) Section 401 Water Quality Certification (WQC), Pontchartrain Levee District (PLD) Permit, and Section 408 Authorization for construction of a temporary modular bridge from the crown of the levee, over River Road, and into the Marathon property. Responsibilities included preparing and/or reviewing request Letters of No Objection and drawings; Joint Permit Application and associated drawings; draft permits; and WQC response. Also assisted the client in responding to agency comments and requests for additional information.			
08/21-Present	Pine Gate Renewables, Environmental Due Diligence & Permitting Support, Multiple Solar Projects, Various Parishes, Louisiana. Managing the environmental due diligence for multiple photovoltaic solar and battery energy storage system projects in Louisiana, Mississippi, Alabama and Georgia. Scopes of work included performing wetland and waterbody delineations; preparing wetland delineation reports and requests for jurisdictional determinations; preparing critical issues analyses; performing threatened & endangered species habitat assessments; performing cultural resource desktop			

	reviews and cultural surveys; coordination with U.S. Fish & Wildlife Service and State Departments of Wildlife & Fisheries; and conducting Phase I environmental site assessments. JDs were obtained from the USACE New Orleans, Vicksburg and Mobile Districts.
04/23-Present	NextEra Energy Resources, Environmental Services, Various Parishes, LA - Managing environmental services for multiple solar projects in Louisiana: 2,465-acre site in Morehouse Parish; 1,477-acre site in Lafayette Parish; 3,268-acre site in Sabine Parish; 1,939-acre site in Webster Parish and 2,173-acre site in Natchitoches Parish. Scope of work consisted of performing desktop wetland reviews, wetland delineation field surveys, and preparation of wetland delineation reports. Some projects included wetland delineations accompanied by a threatened and endangered species habitat assessment and report. Additional tasks include preparation of requests for jurisdictional determination, nationwide permit requests, desktop cultural resources reviews and memorandum, and permit matrices. Projects include coordination with multiple U.S. Army Corps of Engineers Districts, including New Orleans, Vicksburg, and Forth Worth.
08/22-2023	Kinder Morgan/Tennessee Gas Pipeline Company, L.L.C., 507K Supply Lateral Abandonment Project, Louisiana - TRC provided environmental support including biological (wetlands, protected-species habitat) and cultural resource field surveys, preparation of FERC NEPA Environmental Report (ER) for Section 7(b) Natural Gas Act (NGA) Application, agency consultations, and applications for federal/state permits for the abandonment-by-sale of approximately 33 miles of natural gas pipeline and modification of associated aboveground facilities, including within the Louisiana Coastal Zone. Ms. Danna is supporting the NEPA analysis and permitting.
06/19-10/21	Southern Natural Gas Company/Kinder Morgan, Evangeline Pass Expansion Project, FERC NEPA ER and Federal/State/Local Permitting, Mississippi/Louisiana - Supported preparation of FERC NEPA ER for §7(c) NGA Application, agency consultations, and applications for federal/state permits for a new compressor station (Rose Hill, MS) and modification of 17 aboveground facilities in Mississippi and Louisiana, including within the Louisiana coastal zone (Docket No. CP20-51-000).
02/20-02/21	Louis Dreyfus Company, LLC, Port Allen, LA - Project Manager for obtaining a U.S. Army Corps of Engineers Section 10/404 Permit and Atchafalaya Basin Levee District Permit, including Letters of No Objection from the Coastal Protection and Restoration Authority and the Completed Works Branch of the Army Corps of Engineers, for the installation of four (4) new guide piles in the Mississippi River for an existing barge unloading facility in Port Allen, Louisiana.
02/20-11/20	Atlantic Alumina LLC / Noranda Alumina LLC, Gramercy, LA - Project Manager for environmental permitting services to modify/repair the bumper/guide assembly for monopile #5 at Noranda's alumina loadout barge dock on the left descending bank of the Mississippi River near Gramercy, Louisiana. TRC obtained the U.S. Army Corps of Engineers Section 10/404 Permit and Louisiana Department of Natural Resources Office of Coastal Management Coastal Use Permit. TRC also prepared documents to obtain Letters of No Objection from the Coastal Protection and Restoration Authority and the Completed Works Branch of the US Army Corps of Engineers, as well as Pontchartrain Levee District approval.
02/18-Present	Levee Board Permitting for Subsurface Activities within 1,500 feet of the Centerline of the Mississippi River Levee – Louisiana. Managing the preparation of requests for letters of no objection to agencies; prepared permit drawings; and coordinated with the Levee District, the U.S. Army Corps of Engineers, and Coastal Protection and Restoration Authority on issuance of approvals for the following: • Blue Cube Operations LLC, Plaquemine, LA – Tank farm Excavations (multiple submittals) • Noranda Alumina, Gramercy, LA - Monitoring Well Installations & Light Pole Replacements • Louis Dreyfus Co. LLC, Port Allen, LA - Excavations for Routine Maintenance Work; Installation of Helical Piles for Belt Conveyor. • Confidential Client, Plaquemines Parish, LA - Plaquemines Parish Permit for Test Piles

16. Staff Experience:

Firm employed by		TRC Engineers, Inc.		
Name	Jim LeBlanc		Years of relevant experience with this employer	6
Title	Senior Environmental Scientist		Years of relevant experience with other employer(s)	41
Degree(s) / Years / Specialization			B.S. / 1981 / Marine Biology	
Active registration number / state / expiration date			N/A	
Year registered		Discipline	Other Pertinent Training / Certifications Army Corps of Engineers Wetlands Delineation & Management Training Program-Richard Chin Environmental Training, January 2005 U.S. Fish & Wildlife -Wetlands Classification, 1984 U.S. Fish & Wildlife Service – Habitat Evaluation Procedures, 1984	
Contract role(s) / brief description of responsibilities			Permitting Support	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/17-04/19	Blue Cube Operations LLC/The Dow Chemical Company, Grand Bayou Operations, Belle Rose, Louisiana – Lead Scientist for development of the Joint Permit Application (JPA) needed to construct a new well pad and support infrastructure to install a new brine well at the Grand Bayou Operations facility. Providing coordination for a geologic review meeting; Section 106 coordination with the State Historic Preservation Officer; obtaining Louisiana Department of Environmental Quality 401 Water Quality Certification ; coordinating with approved mitigation banks to satisfy permit requirements for compensatory mitigation; and coordinating with U.S. Fish & Wildlife Service and the Louisiana Department of Wildlife & Fisheries on inactive bald eagle nest and colonial wading bird colonies in the general vicinity.			
10/18-03/19	Hilcorp Energy Company, Cartwright Prospect, Terrebonne Parish, LA - Permit Lead responsible for acquiring the Section 10/404 permit from the Corps of Engineers, a Coastal Use Permit from the Office of Coastal Management and approval from the Terrebonne Parish Consolidated Government for the construction of a new well pad needed to drill a new production well. Permitting activities include coordinating mitigation for unavoidable impacts, purchasing of mitigation credits from an approved mitigation bank, and acquisition of a 401 Water Quality Certification for LDEQ.			
06/19-06/20	Nucor Steel Louisiana, Convent, LA - Permit Lead for acquisition of the Section 10/404 permit from the Corps of Engineers, a Coastal Use Permit from the Office of Coastal Management, and approval from the Pontchartrain Levee District for maintenance dredging activities in the Mississippi River at their ship dock and barge loadout facility. Permitting activities included the acquisition of a 401 Water Quality Certification for LDEQ and Letters of No Objection (LONO) from the Completed Works Branch of the Corps and the Coastal Protection and Restoration Authority at the Louisiana Department of Natural Resources.			
05/22-Present	Marathon Oil Company, Garyville, LA - Permit Lead for the acquisition of approval from the Pontchartrain Levee District to transport numerous large process vessels over the Mississippi River Flood Protection Levee at an existing location used for previous heavy haul transports. He is providing coordination of the stability analysis using Method of Planes under preparation by a local geotechnical firm to receive Letters of No Objection from the Completed Works Branch of the Corps of Engineers and CPRA at the Louisiana Department of Natural Resources. Additionally, activities will require the preparation of a Joint Permit Application (JPA) for a Coastal Use Permit (CUP) and a Section 10/404 permit from the Corps of Engineers. Construction of a temporary modular bridge across the levee crown will also require a 408 review by the Corps.			

03/19-01/20	Noranda Alumina LLC, Gramercy LA - Permit Lead for the acquisition of a Section 10/404 permit from the Corps of Engineers and a Coastal Use Permit from the Office of Coastal Management for the repair of damage guide piles at the alumina dock and maintenance dredging behind both docks for removal of sediment accumulation creating loading problems on the dock piles. Permitting activities included approval from the Pontchartrain Levee District for all the activity within 1,500 feet of the Mississippi River Flood Protection Levee. Permitting activities included the acquisition of a 401 Water Quality Certification for LDEQ and Letters of No Objection (LONO) from the Completed Works Branch of the Corps and the Coastal Protection and Restoration Authority at the Louisiana Department of Natural Resources.
10/19-10/20	Noranda Alumina LLC, Gramercy, LA – Permit lead for acquisition of the Section 10/404 permit from the New Orleans District of the Corps of Engineers, a Coastal Use Permit from the Office of Coastal Management, and approval from the Pontchartrain Levee District for construction of a new wetcake conveyor, along with the repair and rehabilitation of an existing liquid barge dock for bulk transfer operations at Noranda Alumina facility in Gramercy, Louisiana. Installation of new piles and dolphins in the river was to be authorized under a Nationwide Permit. Additionally, a 408 Authorization from the Corps of Engineers was required for construction activities within the Mississippi River Flood Protection Levee easement. Prior to submitted the Joint Permit Application (JPA), a wetlands delineation was performed on the river batture in order to identify the extent of jurisdictional wetland potentially impacted by construction activities. Before the permitting could be completed, the project was cancelled due to design delays and cost escalations.
07/18-09/18	Louis Dreyfus LLC, Atchafalaya Basin Levee District Permitting, Port Allen, LA - Levee Permit Lead for acquiring approval from the Atchafalaya Basin Levee District to perform temporary excavation maintenance work within 1,500 feet of the centerline of the Mississippi River Flood Protection Levee. Included the preparation of a request letter to accompany the vicinity map, plan view and cross-section drawing for the project, and responding to requests for additional information from the Corps of Engineers and CPRA.
06/20-06/21	Louis Dreyfus LLC, Port Allen, LA – Permit Lard for an Atchafalaya Basin Levee Board permit to install fur new guide piles at the existing barge unloading terminal needed to force barge tows from crashing into the outer bumper system in order to line up with the barge pulley system. Activities included coordination with the design engineer to provide lateral load calculation for the piles required by CPRA and the Corps for Letters of No Objection.
03/07-09/09	Marathon Oil Company, Garyville, LA - Permit lead for the acquisition of a Section 10/404 permit from the Corps of Engineers, Coastal Use Permit from the Office of Coastal Management and approval from the Pontchartrain Levee District for the construction of a new marine terminal (dock) in the Mississippi River as part of a \$3.2 billion expansion at the Garyville refinery.

16. Staff Experience:

Firm employed by	TRC Engineers, Inc.		
Name	Keith Suderman, PhD	Years of relevant experience with this employer	12
Title	Project Manager	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization	PhD / 2001 / Biological Oceanography M.S. / 1997 / Biological Oceanography B.A. / 1989 / Chemistry		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Permitting Support		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc.		
03/14 – Present	Commonwealth LNG LLC, LNG Export Terminal, Federal Energy Regulatory Commission (FERC) National Environmental Policy Act (NEPA) Environmental Report (ER) and Federal/State/Local Permitting, Louisiana - Managed early support (e.g., fatal-flaw analysis, regulatory review), field survey (wetlands, protected-species habitat, cultural resources), agency consultation, preparation of FERC ER in support of Natural Gas Act (NGA) §3 Application and applications for U.S. Army Corps of Engineers (USACE) §404/§10/§408 permit, Louisiana Department of Natural Resources (LDNR) Coastal Use Permit (CUP), Louisiana Department of Environmental Quality (LDEQ) Water Quality Certification (WQC), National Marine Fisheries Service (NMFS) and U.S. Fish & Wildlife Service (USFWS) Section 7 clearances, and other federal/state/local permits for this LNG export terminal (Docket No. PF17-8, CP19-502).		
05/14 – 06/16, 01/19-Present	Trunkline LNG, Lake Charles LNG Export Terminal, FERC NEPA ER and Federal/State/Local Permitting, Louisiana. Managed post-submittal support of the FERC ER and §3/§7(c) Application and applications for USACE §404/§10/§408, LDNR CUP, LDEQ WQC, NMFS/USFWS Section 7 clearances, and other federal/state/local permits for this LNG export terminal (Docket Nos. CP14-119, CP14-120, and CP14-122). Completed implementation plan; received limited notice to proceed. Managed extension of federal/state/local permits and clearances. Louisiana Department of Wildlife and Fisheries (LDWF) Scenic River permit planned. Extensive wetlands in difficult environments (e.g., wetland mosaics) required close coordination with resource agencies.		
05/16 – 03/19	Driftwood LNG Project, FERC Third-Party NEPA Environmental Impact Statement (EIS), Louisiana. As Project Manager, provided third-party support of the FERC in the preparation of an EIS (Docket No. PF16-6, CP17-117, 118) for a proposed LNG liquefaction and export facility and natural gas pipeline project on the Calcasieu Ship Channel. The proposed project would consist of a 27.6-MTPA LNG liquefaction facility, berths for three LNG carriers, a material offloading facility, and an approximately 96-mile-long, 48-, 42-, and 36-inch-diameter pipeline to transport natural gas from existing pipeline systems to the LNG terminal facilities. Construction began in 2022.		
02/19-07/21	Southern Natural Gas Company/Kinder Morgan, Evangeline Pass Expansion Project, FERC NEPA ER and Federal/State/Local Permitting, Mississippi/Louisiana. Supported preparation of FERC NEPA ER for §7(c) NGA Application, agency consultations, and applications for federal/state permits for a new compressor station (Rose Hill, MS) and modification of 17 aboveground facilities in Mississippi and Louisiana, including within the Louisiana coastal zone (Docket No. CP20-51-000).		
02/21-Present	(LADOTD, I-10 Lake Charles Calcasieu River Bridge Project, Public-Private Partnership Support – Calcasieu Parish, Louisiana. Provided environmental support through the development of Environmental, Socioeconomics, and Environmental Justice Technical Provisions (TPs) in support of the procurement of construction services for the replacement of the aging infrastructure of the existing bridge.		

01/07 – 10/11	Chevron Products Company, USACE/MDMR Wetlands Permitting, Pascagoula, Mississippi. Wetlands and dredging permitting discipline lead for Chevron's \$1.3B Pascagoula Base Oil Project. USACE §404 permit, Mississippi Department of Marine Resources (MDMR) CUP, and Mississippi Department of Environmental Quality (MDEQ)WQC were issued within 6 months. Prepared a Biological Assessment and received clearance for impacts to Gulf sturgeon critical habitat.
02/17-Present	Energy World USA, Fourchon LNG Export Terminal, FERC NEPA ER and Federal/State/Local Permitting, Louisiana. Managing FERC ER for project's NGA Section 3 Application. Supporting federal, state, and local permitting. Project is a unique, elevated platform design in Port Fourchon's industrial setting. Docket No. PF17-9-000.
02/14-07/16	Spectra Energy, Loudon Expansion Project, FERC NEPA ER and Federal/State/Local Permitting, Tennessee. Managed preparation of FERC ER for NGA §7(c) Application, agency consultations, and applications for Nationwide Permit No. 12 (NWP-12) and other federal/state/local permits for a 10-mile pipeline project (Docket No. CP15-91). Supported the preparation of an Environmental Assessment (EA) with the Tennessee Valley Authority (TVA) as a cooperating agency. Addressed protected bat species issues through agency consultation.
05/06-11/06	Gulfstream Pipeline Company, LLC, FERC NEPA ER and Federal/State/Local Permitting, Tampa Bay, Florida. Managed the preparation/submittal of a NEPA ER and applications for a Florida Department of Environmental Protection Environmental Resource Permit, Tampa Port Authority Standard Work Permit and Public Easement Permit, and Pinellas County permit, for an 18-mile offshore natural-gas pipeline in Tampa Bay, Florida.
02/06-03/09	Southern Natural Gas, NEPA and Permitting Support, Coastal Georgia. SNG's Cypress Pipeline Project is a 167-mile natural gas pipeline through pine flatwoods, herbaceous marsh, and estuarine environments of coastal Georgia. Assisted with wetland delineation and NEPA Environmental Report. Technical support of experimental design and analysis for post-construction wetland monitoring study that documented the efficacy of the natural-revegetation method (via topsoiling in wetlands vs. labor-intensive planting methods).
05/12-12/14	USACE, Third-Party EIS for the Glades Reservoir. Hall County, Georgia. Analysis of NEPA-required reasonable alternatives and USACE §404(b)(1) practicable alternatives for water-supply sources and reservoir sites. Coordination and organization of existing-conditions chapter of EIS, under direction of the USACE, Savannah District, to evaluate a pumped storage reservoir located near the Chattahoochee River and Lake Lanier. Scoping outreach included the States of Georgia, Alabama, and Florida.
01/04-05/05	Southern Natural Gas, NEPA and Permitting support, North Georgia. Prepared Resource Reports 2, Water Use and Quality; 3, Fish, Wildlife, and Vegetation; and 7, Soils, for FERC's NEPA Environmental Report. Conducted wetland and waterbody delineation and threatened-and-endangered species habitat surveys and prepared the Wetland/Waterbody Delineation Report for Southern Natural Gas' (SNG's) Triangle Pipeline-Looping Project in north Georgia.

16. Staff Experience:

Firm employed by		WSP USA, Inc.		
Name	Richard Boadi, PhD		Years of relevant experience with this employer	11
Title	Director, Asset Management		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization			PhD / 2015 / Civil Engineering M.S. / 2011 / Transportation System Engineering B.S. / 2001 / Geodetic Engineering	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Asset Management Plan Lead Dr. Boadi has 24 years of combined experience in asset management consulting, research, and implementation. He has served as a Project Manager or Technical Lead for addressing various bridge management needs which has included assisting state DOTs in developing bridge models, configuring bridge management systems, and developing tools and processes to support bridge lifecycle management. Specifically, he led 12 Midwestern U.S. state DOTs as a Principal Investigator to create bridge models for their BMSs. He is presently assisting the DDOT in creating tools to visualize bridge performance and developing management processes to identify bridge preservation needs for individual bridges across the bridge network.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/25-Present	District DOT, Transportation Asset Management Plan, Washington, DC - Project Manager. Providing engineering consulting services to assist with the development of a MAP-21 required Transportation Asset Management Plan. The scope of work includes cleaning over a decade of historic bridge element data to make it analysis-ready, developing over 12 different models for selected bridge elements, and creating decision trees based on the agency’s decision process. This information is used to customize the AASHTOWare bridge management system, develop other analysis tools, develop a 10-year bridge program for the agency, as well as conduct a life-cycle analysis of the agency’s bridges. Dr. Boadi is responsible for providing technical guidance to data analysts and tool developers to accomplish the project goals.			
08/23-08/25	Wisconsin DOT, Bridge Element Deterioration Models, Statewide - Project Manager. The objective of this project was to develop element-level deterioration models for state-owned bridges. Responsibilities included project management activities, leading the collection of bridge element-level data to build an analysis dataset, producing a data dictionary for data elements, creating SQL code and tables, identifying data gaps, and recommending additional data collection and effective management			
05/24-08/25	Virginia DOT, Bridge Maintenance Performance Measurement, Statewide - Technical Lead. The objective of this project was to assist VDOT’s Bridge Management Systems and Performance Measurement Section in developing a Power BI dashboard using Historic Bridge Inspection data to depict the evolving condition of bridges and components, and define rules to determine historical actions performed on bridges within VDOT’s bridge inventory. The information was used to develop a bridge preservation index to facilitate effective bridge management. Dr. Boadi was responsible for assigning resources and ensuring that the task objectives were met			
06/20-11/22	Wisconsin DOT, Transportation Pooled Fund, Bridge Element Deterioration for Midwest States, Various States - Project Manager. This multi-state pooled-fund research developed element-level deterioration models for bridges using bridge-element data from 12 midwestern U.S. state DOTs to determine when bridges will need repair. This will enable the DOTs to schedule bridge repair work in a timely manner. Dr. Boadi was responsible for gathering bridge element-level data to build an analysis dataset, creating element-level models, developing data management policy for the participating DOTs, identifying data gaps, and making recommendations for additional data gathering and effective management			

06/21-12/22	Kansas DOT, Transportation Asset Management Plan, Statewide - Project Manager. Provided engineering consulting services to assist KDOT with the development of a MAP-21 required Transportation Asset Management Plan. Work included meeting and coordinating with staff and stakeholders, technical analysis of assets and performance measures, target setting, plan preparation and editing, development of a risk register, and implementation of the plan.
06/21-12/22	Colorado DOT, Transportation asset Management Plan, Statewide - Technical Lead. Provided engineering consulting services to assist CDOT with the development of a MAP-21 required Transportation Asset Management Plan. Dr. Boadi worked with CDOT's Asset Management team and other related sections to develop asset registers, analyze condition trends, identify funding sources to develop lifecycle scenarios, and develop investment strategies to achieve a state of good repair while progressing towards goals. He also assisted in performance target setting and reporting.
06/21-12/22	Rhode Island DOT, Transportation Asset Management Plan, Statewide - Technical Lead. Provided consulting services to update RIDOT's 2022 asset management plan (TAMP). Dr. Boadi led asset management tasks that were associated with updating the 2022 TAMP for the DOT. This included working in conjunction with RIDOT's Asset Management Group, AIS/GIS, and other related sections in developing the asset register, analyzing condition trends, identifying funding sources to develop lifecycle scenarios, and developing investment strategies to achieve a state of good repair while making progress towards goals. He also supported other related tasks for federal performance target setting and reporting

16. Staff Experience:

Firm employed by		WSP USA, Inc.	
Name	Louis (Lou) Ruzzi, CBSI, CTSI, P.E.	Years of relevant experience with this employer	5
Title	Vice President, Structural Engineering	Years of relevant experience with other employer(s)	45
Degree(s) / Years / Specialization		B.S. / 1980 / Civil Engineering Technology	
Active registration number / state / expiration date		#PE039257E / PA / 09-30-2027	
Year registered	1989	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Asset Management Plan Development Lou has 45 years of experience in complex bridge design engineering, inspection, maintenance, construction, major tunnel rehabilitations, nuclear pipe, instrumentation design, structural design, and drafting. As Director and Structural Engineer at WSP, Lou is a Project Manager responsible for the performance of technical reviews of structural plans/contract documents, constructability reviews, mentoring of younger staff, providing insight on accelerated bridge construction ideas, and managing bridge design and inspection projects. Lou also supports various state and local agencies by partnering with the management of their infrastructure assets, including bridges, tunnels, sign structures, and retaining walls. As part of his work as the PennDOT District 11-0 Bridge Engineer for 21 years, he worked on the rehab or replacement of the 50 biggest bridges in the Pittsburgh area.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
8/22–5/24	City of Pittsburgh, Comprehensive Bridge Asset Management Program, Pittsburgh, PA - PM/Bridge Technical Lead. Lou reviewed the City’s bridge inventory data (design and as-built plans, inspection reports and associated general condition and condition state ratings, and load rating reports) to discern their condition and maintenance history. After reviewing and consolidating available information, WSP developed reports for each of the above tasks. This work also included providing a prioritized list of bridge repairs and projects with new cost estimates to perform the Right Treatment at the Right Time vs programming projects via the Worst First method.		
7/22-12/23	Seattle DOT, Bridge Lifecycle Cost Analysis, Seattle, WA - Bridge Technical Lead. Lou and his team reviewed SDOT’s bridge inventory data (design and as-built plans, inspection reports and associated general condition and condition state ratings, and load rating reports) to discern their condition and maintenance history. After reviewing and consolidating available information on subject bridges in the SDOT inventory, he developed a Life Cycle Plan through a series of progressive tasks. Lou performed reviews of 140 bridge inspection reports or photos to determine maintenance and project needs for the next 50 years to determine the best use of funds for preventative maintenance and Capital projects (bridge preservation, rehab, and replacement) based on lowest lifecycle costs.		
09/24-01/25	Arizona DOT, Transportation Asset Management Program (TAMP), AZ - Bridge Lead. Lou reviewed ADOT’s existing TAMP to adjust lifecycle planning scenarios based on weather patterns and deterioration rates for the state of Arizona.		
05/25–Present	PennDOT, Various Plan Reviews, PA - QA/QC Reviewer. Performed reviews of various PennDOT bridges for compliance with PennDOT’s Design Manual 4. Structures included the Rochester Bridgewater Bridge (District 11) and Whitby Bridge (District 6).		
07/25–Present	West Virginia Department of Highways, US 52 over Gragston Creek Bridge WV - Technical Lead. Performed a review of the Final PSE for a rehabilitation project to repair settlement to the approach slabs and other structural repairs.		
07/24–Present	West Virginia Department of Highways, Point Comfort Bridge, WV - Project Manager. Developed the SOW and cost estimate, provided monthly progress reports, approved invoices, prepared for and led monthly progress meeting with the WVDOH, and performed QA/QC for this bridge preservation project. Lou also served as the project manager for the Post Design Agreement.		

12/22-12/23	Colorado DOT, Tunnel Investment Program, CO - Tunnel Asset Manager. Performed reviews of 22 tunnel inspection reports and CDOT's Asset Investment Management System (AIMS) system to determine future project needs over the next 20 years for structural elements, lighting and mechanical systems.
12/20-12/22	PennDOT, Pathways Major Bridge Tolling Program - Structural Engineer. Lou assisted in developing the Technical Provisions for Section 14 Structures and Section 22 Maintenance, and was the reviewer for Section 9 Geotech and Pavements. Developed bridge maintenance cost estimates for the 6-year construction period and 30-year maintenance period considering Lowest Life cycle Costs and the Right Treatment at the Right Time

16. Staff Experience:

Firm employed by WSP USA, Inc.			
Name	Cynthia Fields, P.E.	Years of relevant experience with this employer	8
Title	Vice President, Structural Engineering	Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization	B.S. / 1994 / Architectural Engineering		
Active registration number / state / expiration date	#PE85449 / TX / 06-30-2026		
Year registered	1999	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Rehabilitation Design Cynthia brings more than 31 years of experience in bridge and roadway engineering, bridge maintenance and inspection, and bridge repair projects. Over her career, she has employed several project delivery methods, including design-bid-build, design-build, and public-private partnership. Her responsibilities have included quality control, project scheduling, progress reporting, preparation of subcontractor agreements and budgets, and development of final contract documents and construction cost estimates. Cynthia's project management duties have included coordinating with clients, managing subconsultants, supervising the design team, and tracking project milestones, budgets, and resources.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-12/25	TxDOT HOU District, Bridge Condition Assessment and Rehabilitation for Various Fracture Critical Bridges, Houston, TX - Bridge Engineer. Cynthia provided comprehensive bridge condition assessment and rehabilitation services for 74 fracture-critical bridges within the Houston District. Her work involved the preparation of plans, specifications, and estimates (PS&E) for eight separate design packages, ensuring that each package addressed the specific needs of the grouped bridges. As part of the assessment process, she thoroughly reviewed routine and fracture-critical inspection reports, as well as bridge plans, for more than 200 structures. She strategically grouped bridges into packages based on their location, required repair types, and traffic control needs while optimizing project efficiency and minimizing disruption. The bridge rehabilitation work addressed both steel and concrete components. Steel repairs included addressing impact-damaged beams, repairing cracked welds, resetting rocker bearings, replacing sheared anchor bolts, installing missing cotter pins, and cleaning and painting areas affected by surface rust and corrosion. For concrete elements, repairs encompassed patching or replacing spalled bent caps and columns, replacing damaged bridge rails, conducting partial and full deck replacements, and cleaning and sealing bridge expansion joints to enhance durability and performance.		
03/17-03/18	City of Plano, Bridge Maintenance Program, TX - Project Manager. Cynthia's duties included managing and providing bridge inspection services; reviewing TxDOT bridge inventory, inspection, and appraisal reports; and prioritizing bridge and culvert projects based on the reports' Follow Up Action items (FUA's) and condition ratings. She used the city's annual bridge maintenance budget to identify the number of bridges and repairs included in the program. The project involved developing plans, specifications, and estimates for bridge deck repairs, partial deck and roadway replacement, sidewalk and rail replacement, expansion joint replacement, concrete spall and crack repair, and stream stabilization.		
10/14-02/15	Dallas County, SH 183 Managed Lanes and Bridge/Culvert Inspection and Load Ratings, TX - Project Engineer. Cynthia provided engineering support for the developer, including bridge and culvert inspection, load ratings, and emergency engineering damage assessment and repair design for the reconstruction of approximately 9.3 miles of SH 183 from SH 161 to I-35 East in Dallas County. The interim phase of construction included replacing deteriorated roadways, adding one managed toll lane in each direction, and rehabilitating 44 bridge structures and 36 culverts.		
07/08-12/17	NTTA, Maintenance Management and Asset Condition Assessment, Dallas, TX - Project Engineer. Reviewed TxDOT bridge inventory, inspection, and appraisal reports and bridge plans to tabulate the value of more than 400 bridges along the Dallas North Tollway, President George Bush Turnpike, Sam Rayburn Tollway, Chisholm Trail Parkway, Mountain Creek Lake, and Lake Lewisville. The valuations were based on current bid tabulations and sufficiency ratings. Their maintenance management consultant can then develop an annual operating budget from the asset condition assessment to include items for routine maintenance, capital improvement projects and other operational expenditures.		

16. Staff Experience:

Firm employed by		WSP USA, Inc.		
Name	Alexandra Beyer, P.E.		Years of relevant experience with this employer	9
Title	Sr. Consultant, Structural Engineering		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		M.S. / 2022 / Structural Engineering B.S. / 2017 / Civil and Environmental Engineering		
Active registration number / state / expiration date		PE#24GE05780600 / NJ / 04-30-2028		
Year registered	2022	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Engineer / Asset Management Support Alexandra is a structural engineer with 9 years of experience in bridge design engineering, inspection, maintenance, construction, load rating, and asset management. Typical responsibilities include her performance of design and detailing for fixed and movable bridges, development of life-cycle-cost analyses for maintenance of existing structures and replacement alternatives, reviewing asset management plans and providing recommended improvements, investigating observed deficiencies of existing structures and providing repair recommendations, and performing routine bridge inspections.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/22-05/24	City of Pittsburgh, Comprehensive Bridge Asset Management Program - Bridge Engineer. Assisted in the review of the City’s bridge inventory data. Developed a Bridge Condition Evaluation Matrix with standard criteria and a condition summary for the City’s 147 bridges. Reviewed the City’s work plan and then-current TIP and provided recommendations for improving immediate and near-term bridge maintenance operations. Developed a prioritized list of bridge project recommendations (Preservation, Rehabilitation, or Replacement) for all 147 City-owned bridges, including estimated construction cost and recommended construction timeframe for each bridge project. Reviewed the City’s then-current staffing and developed recommendations for the creation of a Bridge Maintenance Division and increased technical staffing for the City Bridges and Structures Division. Co-authored various Reports for the City, which documented her findings from an evaluation of various components of the City’s asset management plan.			
04/21–10/22	Pennsylvania DOT, Pathways P3 Major Bridge Initiative - Bridge Engineer. Assisted in program management for the Pathways Major Bridge Initiative, a progressive public-private partnership (P3) program encompassing nine unique, major bridge replacement projects. Developed discipline-specific program summaries for the Pathways Technical Provisions. Assisted in writing the program-wide Technical Provisions and project-specific Technical Specifications. Coordinated with the project teams to incorporate unique requirements for each bridge replacement project into the Technical Specifications. Developed a management plan and led the coordination with design teams for delivery of the Reference Information Documents (RIDs) to the Development Entity proposers. Developed life-cycle maintenance cost estimates using a “Right Treatment at the Right Time” philosophy.			
04/20-9/20	FHWA, State-of-the-Practice Report - Partial-Depth Precast Concrete Deck Panels - Bridge Engineer. Co-authored the FHWA’s State-of-the-Practice Report, Partial-Depth Precast Concrete Deck Panels (FHWA-HIF-22-031, published 2022). Compiled research from state DOTs regarding the use of partial-depth precast concrete deck panels (PDDPs). Compared and analyzed standard design details and construction specifications for PDDPs among various state DOTs to determine current state of the practice. Compared and analyzed PDDP design approaches from various AASHTO and PCI specifications and reports. Co-authored the Report based on findings. Developed full PDDP with CIP concrete slab design example per AASHTO LRFD Bridge Design Specifications, 9th Edition. Developed a Performance Based Sample Specification, Prescriptive Sample Specification, Example Construction Inspection Checklist, and Example Fabrication Checklist for PDDP construction.			
1/23–5/25	Delaware DOT, Bridge Deck Cracking Investigation and Repair Alternatives Analysis - Bridge Engineer. Investigated the potential causes of significant bridge deck cracking observed on a newly rehabilitated bridge deck. Reviewed existing documentation regarding the bridge from the design and construction phase, identified factors contributing to the observed cracking, and conducted further research into each of those factors via a literature			

	review and in-depth analytical studies. Performed a 60-year life cycle cost analysis for various repair alternatives and combinations of alternatives, including sealing deck cracks, LMC or PPC overlay, UHPC overlay, and structural repairs to free locked-in movement. Developed an Investigative Report for DelDOT that detailed the findings of her investigation and recommendations for rehabilitation based on the life-cycle cost analysis. During construction of the recommended rehabilitation, she supported DelDOT and the Contractor by preparing rehabilitation details based on observed field conditions. Confirmed during construction that the existing structure movement was locked-in as theorized during the investigation.
10/23-3/26	Somerset Couty, Replacement of Mountain View Road over Beden Brook - Lead Engineer & Deputy Project Manager. Lead engineer responsible for final design of this bridge replacement. During preliminary design, she performed a cost analysis for various replacement structure types (such as prefabricated truss, multi-span concrete rigid frames, girder and cast-in-place deck slab, etc.) based on site constraints. Led the design of a multi-span concrete rigid frame replacement structure, and the development of bridge plans, specifications, and construction cost estimate. Coordinated with environmental permitting agencies to secure necessary permits. Assisted with management tasks, such as budget tracking and reporting.
7/17–Present	New Jersey DOT, Pulaski Skyway Rehabilitation, Contracts 7-9, Design and Construction Services - Bridge Engineer. Multi-billion-dollar rehabilitation program to address structural and geometric deficiencies plaguing the 3.5-mile-long Pulaski Skyway. During the design phase, she designed and detailed steel member repairs and retrofits. Led the analysis and design of eccentric temporary jacking for bearing replacement. Analyzed existing column capacity with eccentric jacking load configuration and designed reinforced concrete pier and column rehabilitation accounting for seismic and temporary jacking loading. During Construction Support Services, she was the lead structural engineer coordinating with the RE and Contractor. Responsible for review and analysis of structural submittals, including but not limited to concrete deck placement, HLMR bearing assemblies and bolsters, steel repairs and retrofits, temporary jacking procedures, and concrete substructure rehabilitation.

16. Staff Experience:

Firm employed by		WSP USA, Inc.		
Name	Alex Thelemann, P.E.		Years of relevant experience with this employer	7
Title	Sr. Consultant, Structural Engineering		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			M.S. / 2024 / Civil Engineering B.S. / 2018 / Civil Engineering	
Active registration number / state / expiration date			PE#64253 / MN / 05-29-2028	
Year registered	2025	Discipline	Civil Engineering Other Pertinent Training / Certifications FHWA-NHI Course #130056 Safety Inspection of In-Service Bridges for Professional Engineers	
Contract role(s) / brief description of responsibilities			Bridge Engineer Alex is a structural engineer with a focus in bridge engineering. His typical responsibilities include: evaluating the condition of in-service bridges; determining the remaining service life of in-service bridges; analyzing chloride data and non-destructive evaluation data of bridges; developing maintenance, rehabilitation, and replacement quantities for bridges; life-cycle-cost analysis; developing asset management plans; performing LRFR/LFR load ratings of various bridge types; and performing project related, routine, and NSTM bridge inspections.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
09/20-09/22	Utah DOT, I-80 Bridge Preservation and Feasibility Assessment and Corridor Asset Management Plan, Salt Lake City, UT - Bridge Engineer. Alex assisted in the development of a structure feasibility assessment and corridor asset management plan for 36 bridges near the SLC airport. Assisted in developing a literature review and desk review of structural data and directed the field investigation to develop a detailed testing plan. Analyzed acoustic response (SounDAR), ground penetrating radar, high resolution imagery, infrared thermography, ultra-time domain infrared thermography, various paint tests (field and lab), and chloride data to determine deck, superstructure and substructure preservation recommendations for each structure. Also analyzed deck, superstructure and substructure recommendations to group structures into specific projects throughout the corridor based on location, deck preservation, maintenance of traffic and cost. Assisted with the development of a 20-year asset management plan for the corridor.			
05/19-05/22	Elizabeth River Crossings, 26 Corridor Bridges Asset Management Plan, Portsmouth, VA - Bridge Engineer. Alex assisted in the development of a management plan for 24 highway and 2 pedestrian bridges managed by ERC under agreement with the Virginia DOT. Developed a spreadsheet to summarize National Bridge Element (NBE) condition data for all structures to aid in the prioritization of maintenance and preservation recommendations. Calculated repair quantities for various bridge elements for the 2020 and 2021 work programs, as well as assisted in calculating cost estimate summaries for the same year work programs. Developed a memo summarizing the general description, geometry, traffic, and element-specific defects and quantities for each structure to be included in annual maintenance and preservation plans. Also assisted in the development of annual maintenance and preservation plan for a 50-year planning horizon.			
09/22-02/24	Seattle DOT, Bridge Life Cycle Cost Analysis, Seattle, WA - Bridge Engineer. Alex assisted in the development of a life cycle plan for 125 structures throughout the city of Seattle, Washington. Grouped and prioritized bridges based on age, location, route, structure type, and risk. Defined strategies for maintenance, preservation, capital rehabilitation and replacement treatments and established treatment cost, cycles, and intervals. Developed unconstrained and constrained strategic investment strategies based on the City’s funds and resources.			
07/24-12/24	Virginia DOT, Piedmont Avenue Bridge over Beaver Creek Alternatives Analysis, Bristol, VA - Bridge Engineer. Alex separated the bridge into three different structure units based on superstructure and substructure configuration. Analyzed substructure and superstructure material sampling results that included: compressive strength, chloride ion, and petrographic testing results. Developed minor and major rehabilitation activities for the bridge.			

	Determined replacement and rehabilitation quantities and costs for each alternative (entire structure replacement, superstructure replacement and substructure rehabilitation, and superstructure and substructure rehabilitation). Developed 75-year life-cycle costs for each alternative and each unit in order to compare each alternative against one another.
12/22-10/23	Colorado DOT, Tunnel Capital Investment and Maintenance Plan, CO - Bridge Engineer. Alex reviewed owner provided data and inspection reports for all simple and complex tunnels. Analyzed and verified CDOT's Asset Investment Management System (AIMS) model and derived treatments for specific tunnels based on provided data and national best practices. Developed a spreadsheet to organize discipline specific tunnel recommendations and rolled them into a summary table on a per tunnel basis following SNTI and CTIIM standards. Analyzed all tunnel data to develop one-to-ten and ten-to-twenty-year structural treatment recommendations. Grouped maintenance, preservation, and rehabilitation recommendations into different projects.
07/22-07/23	Pennsylvania DOT, Pathways P3 PDA Support and Southern Beltway, Pittsburgh, PA - Bridge Engineer. Alex assisted in the program management of the Pathways Major Bridge Initiative, a progressive public-private partnership (P3) program encompassing nine unique, major bridge replacement projects, and the Southern Beltway extension. Developed 6-year construction and 30-year maintenance cost estimates for all bridges, sign structures, roadways, and retaining walls within the nine sites of interest, and the Southern Beltway extension. Additionally, developed 100-year maintenance cost estimates to showcase the life-cycle-cost savings over a 100-year duration by performing the right treatment at the right time.
09/20-08/23	Minnesota DOT, Bridge 5060 Spandrel Concrete Arch Bridge Management Study, Brainerd, MN - Bridge Engineer. Alex summarized the results of visual inspection and sounding performed on the bridge deck, concrete arches, spandrel columns, floorbeams, piers and abutments. Analyzed and summarized ground penetrating radar, chloride and compressive strength data. Developed a service life analysis technical memo summarizing field inspection data and material sampling data; performed an investigation into bridges with similar configurations and climate regions within the United States; and performed service life projections for the deck, superstructure and substructure elements. Developed a 60-year maintenance and preservation plan for the structure following MnDOT's BPIG and BMM.

16. Staff Experience:

Firm employed by				WSP USA, Inc.			
Name		Hatem Seliem, PhD, P.E.		Years of relevant experience with this employer		4	
Title		Technical Director, Structural Engineering		Years of relevant experience with other employer(s)		16	
Degree(s) / Years / Specialization				PhD / 2007 / Civil Engineering (Structural) M.S. / 2002 / Structural Engineering B.S. / 2000 / Civil Engineering			
Active registration number / state / expiration date				#PE00.39759 / LA / 09-30-2027			
Year registered		2015		Discipline		Civil Engineer Other Pertinent Training / Certifications Traffic Control Technician (TCT) Traffic Control Supervisor (TCS)	
Contract role(s) / brief description of responsibilities				Structural Analysis Lead Hatem has 20 years of experience in structural engineering with a special emphasis on design and the behavior of reinforced and prestressed concrete structures and bridges. He has served as the lead design engineer on several projects and brings significant expertise with the analysis of complex bridges as well as retrofitting structures using Fiber Reinforced Polymers (FRP) materials. Hatem has been working on Louisiana projects for the past 10 years which has involved him with design, load rating, evaluation, and rehabilitation of bridge structures encompassing simple slab span to complex bridges.			
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).					
09/23-Present		SCDOT, Statewide Bridge Preservation and Engineering Design Services - Project Manager and Lead Engineer. Hatem coordinates with the SCDOT and other subconsultants, and provides QC reviews of the rehabilitation designs and plans.					
10/19-9/22		LADOTD, MacArthur Interchange Completion, Phase II, LA - Bridge Engineer-of-Record. Responsible for structural design of the superstructure and substructure, deck drainage design, and construction cost estimate. Further Hatem was the Project Manager to coordinate with subconsultants and LADOTD Project Manager. The project constituted the provision of two new, on-ramp and off-ramp connections between the eastbound of the elevated West Bank Expressway (US 90-Z) and Frontage Road, demolition of the existing off-ramp, and widening of the US 90-Z bridge structure to accommodate the new ramps.					
09/20-06/21		LADOTD, Load Rating of 396 Bridges, LA - Team Leader. Responsible for the load rating analysis and critical review of Finite Element models and structural analysis. This project involved the load rating of 396 existing off-system 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, concrete culverts, swing bridges, and timber bridges. Three-dimensional finite element modeling was used as necessary for the complex bridges.					
02/20-11/20		LADOTD, Evaluation of Bridge Deficiencies-Concrete Piles Repair, LA - Team Lead. Led the research team, developed the final report, and developed repair plans. Deteriorated concrete piles exhibited different signs of distress, depending on exposure environments, stress level, and construction quality. The scope of this work was to research and identify effective repair systems and/or methods to be used for routine and typical maintenance of RC and PPC piles for above water and underwater applications.					
05/19-12/19		LADOTD, Non-Destructive Evaluation and Load Testing of Seven Posted Bridges, LA - Technical Reviewer. Reviewed and validated finite element analysis results. Provided approval of instrumentation planning, reviewed/validated diagnostic load testing results, and reviewed final reports and commencement of results. The scope of work was to evaluate seven bridges, five of which being movable bridges, which were posted for a load lesser than					

	the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out using load rating analysis and load testing coupled with detailed 3-D Finite Element Analysis with the aim of removing current load posting
06/19-03/20	LADOTD, I-20 over Lakeshore Drive and KCS RR, Caddo Parish, LA - Technical Reviewer. Provided reviews of existing documents, including as-built plans, load rating reports, and inspection; QC/QA reviews of the structural analysis and design of rehabilitation; and construction cost estimates. Provided Stage 0 Design (Feasibility Study) for four bridge structures on I-20 crossing over Lakeshore Drive and the KCS Railroad in Shreveport, LA. Designed rehabilitation measures to improve bridge conditions and service life, and completed the need load rating. Different rehabilitation alternatives were designed and detailed
03/19-09/19	LADOTD, Evaluation and Load Rating of 27 Complex Off-System Bridges, LA - Team Leader. Responsible for the load rating analysis and critical review of Finite Element models and structural analysis. Included his evaluation and load rating of 27 complex off-system bridges. The bridge types included steel I-beam, plate girder swing spans, plate girder continuous spans, plate girder bascule spans, low truss swing spans, plate girder swing spans and steel box girder.
06/25-Present	I-26 Connector DB, NCDOT, NC - Design Engineer. Hatem carried out the structural analysis, design, and plan development of the superstructure and substructure for two-span continuous curved, steel plate girder spans. He also designed and detailed a post-tensioned concrete straddle bent. Hatem also performed QC reviews of the structural design and plan development for several substructure bents.
05/23-12/23	GDOT, Sidney Lanier Cable-Stayed Bridge over Brunswick River, Georgia - Design Engineer. Hatem carried out the structural analysis of the cable-stayed spans to jack the bridge for replacing bearing pads at the two towers. Accordingly, a detailed Finite Element model was developed to analyze the bridge under full-service loads while jacking the bridge. Hatem also designed the jacking system and the structural components of the jacking assembly, and participated in developing special provisions for the bearing replacements.
09/22-01/23	MDOT, US 82 Greenville Cable-Stayed Bridge over Mississippi River, MI - Design Engineer. Responsible for structural analysis of the cable-stayed spans. Furthermore, Hatem carried out a vibration analysis of the stay cables to determine their current tension forces based on the field measured natural frequencies of the cables. The vibration analysis and dynamic test results were compiled in a report and submitted as part of an in-depth inspection report of the bridge.

16. Staff Experience:

Firm employed by		WSP USA, Inc.		
Name	Wesley (Wes) Weir, P.E.		Years of relevant experience with this employer	7
Title	Senior Project Manager		Years of relevant experience with other employer(s)	37
Degree(s) / Years / Specialization			B.S. / 1989 / Civil Engineering	
Active registration number / state / expiration date			#PE.0035035 / LA / 03-31-2028	
Year registered	2009	Discipline	Civil Engineer	
			Other Pertinent Training / Certifications FHWA-NHI Course #130055 - Safety Inspection of In-Service Bridges / 1997, 2016 FHWA-NHI Course #130110 - Tunnel Safety Inspection FHWA-NHI Course #130078 - Fracture Critical Inspection for Steel Bridges FHWA/NHI Course #130053 - Bridge Inspection Refresher Training SPRAT – Level 1 Rope Access Technician OSHA 10-Hour Construction Safety	
Contract role(s) / brief description of responsibilities			Bridge Inspection Team Leader Wes has experience in the design, rehabilitation, inspection, and load rating of bridges. He has been heavily involved with technical climbing and rigging of complex, high-level, difficult access bridges, confined space inspections, and the inspection of movable bridges. Wes has served as Project Manager, Project Engineer, senior Structural Engineer, and resident engineer on numerous inspections, rehabilitations, and design projects. He is an expert in inspection safety and inspection systems, including inspection vehicles, rigging systems, and technical climbing techniques. He has supervised multiple design and inspection teams composed of both in-house personnel and subconsultants and has participated in assignments involving underwater inspection and scour analysis, material sampling and testing, various non-destructive testing and maintenance, and protection of traffic. He has also been a design engineer for the rehabilitation of fixed and movable bridges, including steel, concrete, masonry, timber, and cable (cable-stayed and suspension) structures. His responsibilities have included training personnel, preparation of contract documents, specifications, construction cost estimates, rating calculations, condition evaluation, and rehabilitation reports.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/16-Present	TxDOT, On-Call Complex Bridge (NSTM) and Tunnel Inspections, Statewide, TX - Sr. Project Manager. Responsible for fracture critical inspections of bridges throughout Texas. Wes responsible for organizing and performing fracture-critical bridge inspections, writing and reviewing inspection reports, and analyzing structural elements as required to assess the severity of defects. He stays in close coordination with personnel from various public and private entities and is required to coordinate access and equipment needed to perform hands-on inspections. Bridges have ranged from off-system low average daily traffic structures to signature bridges, often requiring the use of technical climbing and rope access techniques. Ross also performs non-destructive testing as necessary on fatigue-prone details, primarily to determine limits of fatigue cracks found in fracture-critical members. WSP is providing inspection services for tunnels and fracture critical bridges across the state of Texas. The bridges have ranged from off-system low average daily traffic structures to signature bridges, often requiring the use of technical climbing and rope access techniques.			
08/16-Present	TxDOT, Statewide Routine Bridge Inspections, Statewide, TX - Project Manager. Project Manager for the NBIS of over 10,000 NBIS routine bridge inspections for TxDOT over the past 10 years in addition of hundreds load ratings. Load ratings were performed based on the 2020 TxDOT Load Rating Guide and AASHTO Manual for Bridge Evaluation, 3rd Edition. The load rating software used was AASHTO BrR (Version 6.8.4 and 7.0). The Inspections			

	and load ratings have included reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for simple and continuous spans. Under this contract, TxDOT requested WSP's assistance to perform load testing of 30 culverts and systematic program to extrapolate the data obtained to provide a method of load posting avoidance across the entire inventory of 14,000+ culverts, saving the state millions of dollars in unnecessary replacement of culverts. WSP also assisted with emergency post-Hurricane Harvey bridge inspections in the Houston area. Eight inspection teams were quickly mobilized to perform these emergency assessments; WSP completed 340 post-hurricane emergency assessments in 1 week.
01/25-Present	SCDOT, Bridge Inspection, Load Rating, Material Testing, and Load Testing Contract, Districts 2 & 7, South Carolina - QA/QC Manager. Wes provided QA/QC management for this project that included the site assessment and determination of the load capacity ratings for 2558 structures in South Carolina Districts 2 & 7. 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 in accordance with current AASHTO standards utilizing AASHTOWare BrR. In addition, WSP performed 520 material/NDT tests and 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state.
08/2022-12/2024	MTA, Bridge Inspection and Load Rating of METRA Project Management Office (PMO), Chicago, IL - Rail Bridge Engineer. Responsible for the Metro Transit Authority under the PMO in charge of their bridge inventory of over 445 bridges within 5 Districts of Chicago and the metropolitan area. Engineering services include FRA annual inspections, load rating, and maintenance programs as well as forecasting capital improvements and engineering support for emergency repair plans.

16. Staff Experience:

Firm employed by NTB Associates, Inc.			
Name	Mike King, PLS	Years of relevant experience with this employer	19.5
Title	Vice President	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	B.S. / 2012 / Construction Management, Louisiana State University		
Active registration number / state / expiration date	#PLS.0005127 / LA / 09-30-2027		
Year registered	2015	Discipline	Professional Surveyor
Contract role(s) / brief description of responsibilities	Project Manager for Topographic Surveying Mike will serve as NTBA's Survey Project Manager for topographic surveying services during this contract. He will manage field crews, file processing, drafting, and submittals. Mike has over 20 years of surveying experience.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/24 – 05/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) - Quality Control Surveyor assisting in staffing, coordination, and team meetings for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements.		
08/25 – 05/26	LaDOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) - Survey Project Manager for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of QL C & D subsurface utility services for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line.		
01/23-04/26	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.		
08/21-04/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) - 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 34 bridge and culvert replacements as a sub to BKL.		
04/21-04/26	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.		
08/22-04/26	Delta Utilities/ CenterPoint Energy, 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.		
12/24-05/25	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.		
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 surveys, 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 surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser 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, and property surveys along with surveys in support of QL B, C, and D subsurface utility designating services.
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 and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation.
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, and hydrographic surveying services, 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.
07/16 – 03/17	LaDOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) - Assistant Project Manager assisted in the management of survey crews and technicians for topographic surveys, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation.
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 surveys for interstate rehabilitation.
05/13 – 10/15	Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Proj. No. Unknown) - Sr. Party Chief/ Technician ran a field crew and downloaded data 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 reviewed data and drafting for topographic surveys, 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 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 surveys 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 surveys, 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.

16. Staff Experience:

Firm employed by NTB Associates, Inc.			
Name	Bryan Bunch, PLS	Years of relevant experience with this employer	17
Title	Executive Vice President	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	B.S. / 1988 / Survey and Land Information Systems, University of Arkansas		
Active registration number / state / expiration date	#PLS.0005014 / LA / 03-31-2028		
Year registered	2009	Discipline	Professional Surveyor
Contract role(s) / brief description of responsibilities	Assistant Survey Project Manager Bryan will serve as NTBA Assistant Survey Project Manager assisting in staff management, processing, and preparation of deliverables for surveying and mapping services.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/24 – 05/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) - Assistant Survey Project Manager assisting in staffing, coordination, and QA/QC for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements.		
08/25 – 05/26	LaDOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) - Assistant Survey Project Manager assisting in staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of QL C & D subsurface utility services for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line.		
01/23-04/26	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.		
09/24-04/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) - Assistant Survey Project Manager assisting in staffing, coordination, and QA/QC for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements.		
09/20-04/26	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.		
08/22-04/26	Delta Utilities/ CenterPoint Energy, 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.		
07/23-04/26	LaDOTD IJJA Off-System Bridge Program, District 62 (4400025041) - Quality Control Surveyor assisted in staffing, coordination, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.		
12/24-05/25	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.		

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 surveys, 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 surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
03/21 – 03/22	City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013) - Survey Project Manager managed field crews and technicians for control, topographic, and property surveys along with QL B, C, and D subsurface utility designating services for approximately 1,500 feet of Ward Creek.
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.
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, and hydrographic surveying services, 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.
05/16 – 06/18	LaDOTD LA 675 & LA 87 Improvements in New Iberia, Iberia Parish, LA (4400002562 & 4400006814) - Project Manager directed field crews, file processing, drafting, and submittals for topographic surveying services as a sub to Stanley Consultants, Inc.
11/15 – 05/17	Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03) - Quality Control Surveyor assisted in staffing, coordination, and QA/QC for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
07/16 – 03/17	LaDOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) - Survey Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation.
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.
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 surveys, 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 surveys 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 surveys 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 surveys for interstate rehabilitation as a sub to GEC, Inc.

16. Staff Experience:

Firm employed by NTB Associates, Inc.			
Name	Patrick Staiano, PLS	Years of relevant experience with this employer	6.5
Title	Staff Surveyor	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	B.S. / 2008 / Construction Management, Louisiana State University / ATSSA TCS		
Active registration number / state / expiration date	#PLS.0005130 / LA / 09-30-2027		
Year registered	2015	Discipline	Professional Surveyor
Contract role(s) / brief description of responsibilities	Survey Project Manager Patrick will serve as NTBA's Survey Project Manager for property surveys and right-of-way mapping. Patrick will manage field crews, technicians, data processing, drafting, review and certification of maps and surveys, and submittals. He has over 16 years of surveying experience.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/24-04/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) - Project Manager directing field crews, file processing, drafting, and submittals for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements.		
01/23-04/26	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) - Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, surveys in support of QL B, C, and D subsurface utility designating, title take-offs, legal description preparation, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River as a sub-consultant to James Construction.		
09/22-04/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) - Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to BKL.		
09/22-04/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to Waggoner.		
09/22-09/25	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) - Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for topographic surveys, property surveying services, surveys in support of SUE, title research, title take-offs, boundary and right-of-way calculations, and reviews of CADD drawings and plats for maintenance and construction projects.		
09/22-09/25 03/18-02/21	Apache Corporation, Infrastructure Improvements, Permian Basin, Reeves Counties, TX (Agency Proj. Nos. Unknown) - Project Manager managing property surveying services and right-of-way acquisition mapping for approximately 84 miles of infrastructure improvements. Patrick has prepared approximately 131 property acquisition plats for this project.		
09/22-09/25 03/18-02/21	Targa Pipeline, Natural Gas Gathering System, Howard and Martin Counties, TX (Agency Proj. Nos. Unknown) - Quality Control Surveyor reviewing drafting and property acquisition plats as well as assisting with management of property surveying services. Patrick has prepared approximately 250 property acquisition plats for this project.		

07/23 – 05/25	LaDOTD IIJA Off-System Bridge Program, District 62 (4400025041) - Project Manager directing field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.
03/21 – 08/22	MOVEBR Jefferson Hwy. at Bluebonnet Intersection Improvements, LA (City Parish No. 20-CP-HC-0046) - Project Manager managed field crews and technicians for topographic surveys, property surveys, and right-of-way mapping.
03/20 – 02/21	UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502) - Assistant Project Manager performed property surveying services for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad right-of-way. Prepared 8 ALTA Surveys along with the privately owned parcels for acquisition, 0.25-acre acquisition parcel in the right-of-way, and an overall right-of-way strip map.
09/19 – 02/20	DCP Midstream, MaBee Ranch Line Locates, Martin and Andrews Counties, TX (19-056-001) - Project Manager managed property surveying services in support of property acquisition services for 32 individual pipelines totaling approximately 22 miles.
03/18 – 10/18	Rogillio Resubdivision, East Baton Rouge & East Feliciana Parishes, LA (Agency Proj. No. Unknown) - Assistant Project Manager performed title take-offs, boundary, and right-of-way calculations, and reviewing CADD drawings and plats for resubdivision services for 93 acres.
04/17 – 03/18	LaDOTD LA 653 Bayou Dumar Bridge Replacement, Lafourche Parish, LA (H.008118) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.
01/17 – 03/18	LaDOTD LA 450 Stoney Point Bridge Replacement, Washington Parish, LA (Proj. No. Unknown) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys and prepared title work info and right-of-way maps for a +/-0.25-mile project.
09/17 – 01/18	LaDOTD LA 1026: Roundabout at Buddy Ellis Rd., Livingston Parish, LA (H.011824) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.3-mile project.
10/17 – 12/17	LaDOTD US 190B Jefferson Ave. Roundabout Covington, St. Tammany Parish, LA (H.011260) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.1-mile project.
06/17 – 10/17	LaDOTD LA 22: Near I-10 Geometric Improvements, Ascension Parish, LA (H.011314) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75-mile project.
05/17 – 09/17	LaDOTD LA 59: Roundabout @ Lonesome Rd., Tangipahoa Parish, LA (H.011030) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.
03/16 – 08/17	LaDOTD LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish, LA (H.010184) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75-mile project.
03/17 – 07/17	LaDOTD LA 1042: Bridges Near Greensburg, St. Helena Parish, LA (H.008312) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/- 2-mile project.
03/16 – 02/17	LaDOTD LA 22 Roundabout @ Dunson Rd., Tangipahoa Parish, LA (Proj. No. Unknown) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.25-mile project.
03/16 – 01/17	LaDOTD LA 1024 Near Friendship, Livingston Parish, LA (Proj. No. Unknown) - Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.

16. Staff Experience:

Firm employed by		NTB Associates, Inc.		
Name	Amy Schulze, P.E., CFM		Years of relevant experience with this employer	8
Title	Sr. Project Engineer		Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			B.S. / 1998 / Civil Engineering	
Active registration number / state / expiration date			#PE.0030295 / LA / 03-31-2027	
Year registered	2002	Discipline	Civil Engineering Other Pertinent Training / Certifications CFM National Certification: US-16-08839 Electro-Magnetic Locating Instruments Certified/Certificate of Locating Competency #WA2028 (Staking University)	
Contract role(s) / brief description of responsibilities			SUE Project Engineer/ Manager Amy will serve as the SUE Project Engineer/ Manager during this contract. She will supervise and manage any required subsurface utility designating/ locating services. Amy has nearly 30 years of SUE experience.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
12/25-05/26	LaDOTD/BPPJ Cong Relief Winfield Road (2025-118/H.003855.5) - SUE Project Manager for QL B, C, and D subsurface utility investigations including record reviews, surface feature surveys, underground utility designating, utility base-map development, and utility-owner coordination in support of roadway design.			
06/25-05/26	City of Baton Rouge/ East Baton Rouge Parish, Upper Ward Creek Clearing & Snagging Project, East Baton Rouge Parish, LA (25-DR-US-0013) - SUE Project Manager for QL C, B, and D surface utility designating, utility coordination services, and surveys in support of SUE for flood reduction and associated channel-improvement work.			
11/25-05/26	LaDOTD Kings Hwy: Healthcare & Development Corridor, Caddo Parish, LA (H.015724) - SUE Project Manager for surveys in support of SUE, QL B, C, & D utility designating, and utility coordination services in support of rehabilitation and design for roadway reconstruction.			
01/22-05/26	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.			
04/21-05/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - SUE Project Manager for QL C & D subsurface utility services and surveys in support of SUE for 21 bridge and culvert replacements as a sub to Sigma/ Waggoner.			
08/21-05/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) - SUE Project Manager for QL C & D subsurface utility services and surveys in support of SUE for 34 bridge and culvert replacements as a sub to BKL.			
08/22-05/26	Delta Utilities/ CenterPoint Energy Survey & SUE Services, LA (Various Proj. Nos.) - SUE Project Manager for QL B, C, & D subsurface utility designating services and surveys in support of SUE in various parishes throughout Louisiana 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.			
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 and surveys in support of SUE 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 SUE 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 and surveys in support of SUE for the intersection improvements for the design of a new roundabout as a subconsultant to GEC, Inc.
02/20-07/24	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 and surveys in support of SUE throughout the approximately 1.5 miles of the project corridor.
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 and surveys in support of SUE 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 and surveys in support of SUE for interstate rehabilitation.
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 and surveys in support of SUE 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 SUE 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 SUE 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 SUE 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 SUE for approximately 2 miles for interstate rehabilitation as a sub to GEC, Inc.

16. Staff Experience:

Firm employed by NTB Associates, Inc.			
Name	Belton Davis, Jr.	Years of relevant experience with this employer	7.5
Title	Party Chief	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	U.T.A. Certified Professional Utility Locator		
Active registration number / state / expiration date	ATSSA TCT		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Survey/SUE Party Chief Belton will serve as an NTBA Survey Party Chief during this contract. He will lead a field crew and download data for survey and SUE services.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/24-04/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Survey Party Chief running a field crew and downloading data for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping for roadway design improvements.		
01/23-04/26	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) - Survey/ SUE Party Chief running a field crew and downloading data for Static GPS Control surveys, topographic surveys, and property surveys in support of title take-offs, title research, preliminary and final right-of-way mapping, and QL A, B, C, & D utility designating/ locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
07/23-04/26	LaDOTD IJA Off-System Bridge Program, District 62 (4400025041) - Survey/ SUE Party Chief running a field crew and downloading data for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.		
09/22-04/26	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) - Survey/ SUE Party Chief running a field crew and downloading data for topographic surveys , property surveying services, surveys in support of SUE, title research, title take-offs, boundary and right-of-way calculations, and reviews of CADD drawings and plats for maintenance and construction projects.		
12/24-01/25	LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) - Survey/ SUE Party Chief ran a field crew and downloaded data 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.		
06/18-10/24	LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5) - Survey/ SUE Party Chief ran a field crew and downloaded data for topographic surveys, 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 Monkhouse to I-49, Caddo Parish, LA (4400017713) Survey Party Chief ran a field crew and downloaded data for topographic surveys and surveys in support of QL C & D subsurface utility services and drainage map preparation for interstate rehabilitation.		
02/21-04/21	LaDOTD LA 3125 @ LA 3274 Roundabout, St. James Parish, LA (H.014416.5) Rodman performing on a field crew for topographic surveys and surveys in support of QL B, C, & D subsurface utility designating.		
07/19-02/20	LaDOTD I-10: Loyola Interchange, Kenner, Jefferson Parish, LA (H.011670) Rodman performing on a field crew for QL B, C, and D subsurface utility designating, topographic surveys , surveys in support of QL A, B, C, and D subsurface utility designating/ locating for approximately 5 miles.		

16. Staff Experience:

Firm employed by NTB Associates, Inc.			
Name	Captayn Chapman	Years of relevant experience with this employer	12
Title	Party Chief	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		High School Diploma, 2006 U.T.A. Certified Professional Utility Locator ATSSA TCS	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Survey/SUE Party Chief Captayn will serve as an NTBA Survey/SUE Party Chief during this contract. He will lead a field crew and download data for topographic survey and SUE services.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/25 – 05/26	LaDOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) - Survey/ SUE Party Chief running a field crew and downloading data for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of QL C & D subsurface utility services for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line.		
01/23-04/26	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) - Survey/ SUE Party Chief running a field crew and downloading data for Static GPS Control surveys, topographic surveys, and property surveys in support of title take-offs, title research, preliminary and final right-of-way mapping, and QL A, B, C, & D utility designating/ locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
09/24-04/26	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Survey Party Chief running a field crew and downloading data for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping for roadway design improvements.		
04/21-04/26	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Survey/ SUE Party Chief running a field crew and downloading data for Static GPS Control surveys, topographic surveys, and property surveys in support of title take-offs, legal description preparation, 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.		
07/23-04/26	LaDOTD IJA Off-System Bridge Program, District 62 (4400025041) - Survey Party Chief running a field crew and downloading data for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.		
12/17-11/24	LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5) - Survey/ SUE Party Chief ran a field crew for topographic surveys and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles.		
08/21-02/22	LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) - Survey/ SUE Party Chief ran a field crew and downloaded data for topographic surveys and surveys in support of QL C & D subsurface utility services for bridge repair/ rehabilitation.		
12/20-01/21	LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5) - Instrument Man performed on a field crew for topographic surveys for bridge rehabilitation.		

16. Staff Experience:

Firm employed by	NTB Associates, Inc.		
Name	Jeremy Reppond	Years of relevant experience with this employer	9
Title	Party Chief	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	High School Diploma, 2011 / FAA UAS Remote Pilot (#4282637)		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Survey/SUE Party Chief Jeremy will serve as Survey Party Chief during this contract. He will lead a field crew and download data for topographic survey services.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/26-05/26	LaDOTD LA 1 Caddo Lake Bridge to Donna Annette Road, Caddo Parish, LA (H.016365) - Survey Party Chief running a field crew and downloading data for a topographic survey to collect roadway, drainage, utilities, structures, traffic features, and superelevation control data in support of roadway/bridge design and safety improvements as a sub to Halff.		
08/22-04/26	Delta Utilities/ CenterPoint Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) - Survey Party Chief running a field crew and downloading data for topographic surveys , property surveys, and surveys in support of SUE 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.		
07/23-10/24	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) - Survey Party Chief ran a field crew and downloaded data for Static GPS Control surveys, topographic surveys , property surveys, and surveys in support of QL A, B, C, & D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
09/21-08/24	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) - Survey Party Chief ran a field crew and downloaded data for Static GPS Control surveys, topographic surveys , and property surveys in support of title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKI.		
04/22-04/23	LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) - Survey Party Chief ran a field crew and downloaded data for Static GPS Control, topographic surveys , and surveys in support QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.		
05/21-05/21	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Survey Party Chief running a field crew and downloading data for Static GPS Control surveys, topographic surveys , and property surveys in support of title take-offs, legal description preparation, 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.		
10/21-02/22	LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) - Instrument Man performed on a field crew for topographic surveys and surveys in support of QL C & D subsurface utility services for bridge repair/ rehabilitation.		
02/21-02/21	LaDOTD LA 3125 @ LA 3274 Roundabout, St. James Parish, LA (H.014416.5) - Instrument Man performed on a field crew for topographic surveys for the design of a roundabout intersection.		
12/20-02/21	LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5) - Instrument Man performed on a field crew for topographic surveys for bridge rehabilitation.		
05/19-07/19	LaDOTD US 167, LA 2: Middle Slough & Creek Bridges, Union Parish, LA (4400009385 & H. 012037.5) - Instrument Man performed on a field crew for topographic surveying services for bridge rehabilitation/design for two separate bridge site locations.		

16. Staff Experience:

Firm employed by	GeoEngineers, Inc.		
Name	Larry Sant, P.E.	Years of relevant experience with this employer	25
Title	Associate Geotechnical Engineer	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization	M.S. / 2001 / Civil Engineering B.S. / 2001 / Civil Engineering		
Active registration number / state / expiration date	#PE.0035625 / LA / 09-30-2026		
Year registered	2010	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Geotechnical Task Leader Larry is a professional geotechnical engineer with more than 25 years of experience managing geotechnical engineering projects and has been GeoEngineers' project manager for most of their transportation projects in the last two decades working with agencies like the East Baton Rouge Parish, The City of Baton Rouge, LA DOTD, and many other local entities. He has managed the geotechnical design tasks for 12 design-build/P3 projects either as Lead Geotechnical Engineer of Record or as the owner's representative. His experience includes project planning and technical direction during exploration, laboratory testing, engineering design analyses, report preparation and construction monitoring. Larry has been involved in hundreds of projects including roadways ranging from highways to private access drives, airports, bridges, dams, university and K-12 schools, wastewater treatment plants, drainage facilities, utility projects, and other structures ranging from private residences to large public and private facilities.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/24-Present	LADOTD, P3 I-10 Calcasieu River Bridge Geotechnical Engineering Services; Lake Charles, LA - Lead geotechnical engineer for this historic public-private partnership (P3) that will redesign and renovate a six-mile stretch of I-10 running through Lake Charles—including the Calcasieu River Bridge itself, which has been outdated for decades. The finished project aims to improve traffic capacity with three through lanes in each direction, and renovate interchanges, shoulders, and bridges through the I-10 corridor to meet modern engineering standards and transportation needs. GeoEngineers' scope includes several hundred borings including deep borings in the Calcasieu River, geotechnical design for bridge foundations, embankment slopes and retaining walls, lab testing, drilling, construction monitoring, and environmental support to deal with explorations within a known contamination plume.		
10/21-06/22	LADOTD, Jimmie Davis Bridge Prelim Explorations; Caddo and Bossier Parishes, LA - GeoEngineers completed the fast-tracked preliminary geotechnical exploration and testing including deep borings in the Red River for this high-profile design-build project that is in preparation for the replacement of the Jimmie Davis Bridge over the Red River, along LA 511 in Bossier City, Louisiana.		
1/19-11/24	LADOTD, I-10/Loyola Interchange Design Build, Kenner, LA - GeoEngineers completed the geotechnical exploration, testing, engineering, modeling driving in the wave equation analyses (WEAP) and conducting PDA (Pile Driving Analyzer)/CAPWAP (Case Pile Wave Analysis Program) testing monitoring/evaluations for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Larry served as the lead geotechnical engineer.		
05/18-04/19	LADOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA - Project manager for GeoEngineers' OV/QA role in this design-build project which involved interchange improvements (piles, shafts, embankments and PDA / CAPWAP) that will increase access to the Barksdale Air Force Base in Bossier Parish.		

08/17-11/20	LADOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA - Project manager for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involved PDA / CAPWAP monitoring /evaluations for widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.
04/15-11/17	LADOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA - Project manager during this design-build project in support of the proposed Interchange on US90 at LA318. He led the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the WEAP. During construction we conducted PDA/ CAPWAP testing to keep the schedule progressing.
02/13-04/13	LADOTD, I-49/US90 Widening over LA182 and BNSF Railroad, Lafayette, LA - This was a LA DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Larry was the project manager in conducting bridge and roadway borings, and laboratory tests in support of design of this design build widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.
08/12-07/15	LADOTD, I-210 at Cove Lane Interchange, Lake Charles, LA - Project manager during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers coordinated a field investigation including multiple simultaneous drilling and CPT rigs, with lane closures and traffic control and completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations including modeling driving in the WEAP, mechanically stabilized earth (MSE) walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided PDA/CAPWAP evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.
01/10-12/12	LADOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA - Project manager during this design build project. GeoEngineers completed engineering analyses and provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications for highway bridges, which included PDA/CAPWAP monitoring/evaluations.
09/09-07/11	LADOTD, US90 at LA85 Interchange Design Build, Iberia Parish, LA - Project manager during a design build project in support of the proposed Interchange on US90 at LA85. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring/evaluations. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent downdrag loads on the proposed adjacent bridge foundations.

16. Staff Experience:

Firm employed by		GeoEngineers, Inc.		
Name	James Aronstein, Jr., P.E.		Years of relevant experience with this employer	56
Title	Senior Geotechnical Advisor		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			B.S. / 1965 / Civil Engineering	
Active registration number / state / expiration date			#PE.0011794 / LA / 03-31-2027 #PLS.0000458 / LA / 03-31-2027	
Year registered	1969 (PE); 1970 (PLS)	Discipline	Civil Engineering Professional Surveyor	
Contract role(s) / brief description of responsibilities			Geotechnical Quality Assurance/Quality Control Jim has provided geotechnical services on private, industrial, and public facilities since 1969, with extensive, significant expertise in the transportation industry. He has been the engineer of record for the majority of GeoEngineers’ Louisiana road and bridge projects over the past 30 years, including LA DOTD statewide retainer contracts for geotechnical investigations and project-specific programs. His projects include the I-210 at Cove Lane Interchange; I-49/US90 Widening over LA182 and BNSF Railroad Design-Build; 37-mile extension of I-49 North through Louisiana, I-220 to the Arkansas state line; Rigolets Pass Bridge project on US 90; numerous off-system bridge sites for LA DOTD through local consultants; and work on the East Baton Rouge Parish Green Light roads and streets improvements plan. Jim’s role has involved managing and executing engineering analyses and reports, field exploration, site access, drilling technology evaluation, exploration conduct, laboratory test assignments, and quality control of the generated work product	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/21-06/22	LADOTD, Jimmie Davis Bridge Prelim Explorations; Caddo and Bossier Parishes, LA - GeoEngineers completed the fast-tracked preliminary geotechnical exploration and testing for this high-profile design-build project that is in preparation for the replacement of the Jimmie Davis Bridge over the Red River, along LA 511 in Bossier City, Louisiana.			
01/19-11/24	LADOTD, I-10/Loyola Interchange Design Build; Kenner, LA - GeoEngineers completed the geotechnical exploration, testing, engineering and modeling driving in the WEAP and conducting PDA/ CAPWAP testing monitoring/evaluations for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Jim served as principal-in-charge.			
05/18-04/19	LADOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA; Bossier Parish, LA - Principal-in-charge for GeoEngineers’ OV/QA role in this design-build project which involves interchange improvements (piles, shafts, embankments and PDA / CAPWAP) that will increase access to the Barksdale Air Force Base in Bossier Parish.			
08/17-11/20	LADOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA; Baton Rouge, LA - Jim was the principal-in-charge for GeoEngineers’ OV/QA role in this highly-anticipated I-10 project that involved PDA / CAPWAP monitoring/ evaluations for widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.			
04/15-11/17	LADOTD, US-90/LA-318 Interchange Design Build; St. Mary Parish, LA - Principal-in-charge during this design-build project in support of the proposed Interchange on US90 at LA318. GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the WEAP. During construction, we conducted PDA/CAPWAP testing to keep the schedule progressing.			

02/13-04/13	LADOTD, I-49/US90 Widening over LA182 and BNSF Railroad; Lafayette, LA - This was a LA DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Jim was the principal-in-charge in conducting bridge and roadway borings, and laboratory tests in support of design of this bridge and roadway widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.
08/12-04/15	LADOTD, I-210 at Cove Lane Interchange; Lake Charles, LA - Principal-in-charge during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers coordinated a field investigation including multiple simultaneous drilling and CPT rigs, with lane closures and traffic control and completed engineering analyses while providing recommendations for design and construction of about 8,000 driven pile foundations, MSE walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided PDA/CAPWAP evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.
01/10-12/12	LADOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA - Principal-in charge during this design build project. GeoEngineers completed engineering analyses and provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications for highway bridges, which included PDA/CAPWAP monitoring.
09/09-07/11	LADOTD, US90 at LA85 Interchange Design Build; Iberia Parish, LA - Principal-in-charge during this design-build project in support of the proposed Interchange on US90 at LA85. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent downdrag loads on the proposed adjacent bridge foundations.
04/07-04/09	LADOTD, I-49 North; Caddo Parish, LA - his was a LA DOTD Priority 1 Mega Project where Jim led the GeoEngineers' team in conducting bridge and roadway borings and laboratory tests before bridges were constructed and pavement was laid on then 36-mile northward extension in Louisiana. GeoEngineers completed 166 borings for the project. At some sites, the team had to overcome the challenge of drilling exploratory borings at the same time LA DOTD cleared the area for construction, disturbing the site where samples are taken.

16. Staff Experience:

Firm employed by		GeoEngineers, Inc.		
Name	Brenda Novoa, P.E.		Years of relevant experience with this employer	3
Title	Senior Geotechnical Engineer		Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization			M.S. / 2003 / Civil Engineering B.S. / 1999 / Civil Engineering	
Active registration number / state / expiration date			#PE.0033665 / LA / 03-31-2028	
Year registered	2008	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Geotechnical Project Manager Brenda is a geotechnical engineer with 26 years of experience in geotechnical field work and engineering in Louisiana and Puerto Rico. Her daily responsibilities include the management of projects from the proposal stage to report distribution. Brenda is directly involved with the field exploration crews, constantly in direct contact with clients to gather project data and solve any challenging issues that arise in their projects, and conducts onsite soil observations and analyzes field and lab data to develop engineering recommendations for commercial, industrial, municipal, state, and federal projects. Her geotechnical experience includes data evaluation and engineering analysis including slope stability analysis, shallow and deep foundation recommendations per LRFD design requirements for LA DOTD projects, and settlement analysis, among others.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/24-06/25	LADOTD, Bonne Idee Rd Bridge Geotechnical Explorations & Lab; Bonita, LA - Project engineer for this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge’s site and the preparation of final boring logs in LADOTD format.			
11/24-05/25	LADOTD, Spring Bayou Road over Spring Bayou; Goudeau, LA - Project engineer for this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge’s site and the preparation of final boring logs in LADOTD format.			
04/24-Present	LADOTD, P3 I-10 Calcasieu River Bridge Geotechnical Engineering Services; Lake Charles, LA - Senior project engineer for this historic public-private partnership (P3) that will redesign and renovate a six-mile stretch of I-10 running through Lake Charles—including the Calcasieu River Bridge itself, which has been outdated for decades. The finished project aims to improve traffic capacity with three through lanes in each direction, and renovate interchanges, shoulders, and bridges through the I-10 corridor to meet modern engineering standards and transportation needs. GeoEngineers’ scope includes geotechnical design for bridge foundations, embankment slopes and retaining walls, lab testing, drilling, construction monitoring, and environmental support to deal with explorations within a known contamination plume. Brenda is helping with the coordination of the field and laboratory testing activities and with the evaluation of the data obtained for the geotechnical designs.			
06/20-04/22	MOVEBR, Hennessy Boulevard to Perkins Road Connector; Baton Rouge, LA - Project manager for this project. The project consisted of design and construction of a new 2,600 feet long connector roadway and railroad underpass bridge. The project included depressing the new roadway under the existing KCS railroad track to provide grade separation from the railroad. The project also included a new drainage pump station. Retaining structures, sheet piles or otherwise, were required for temporary support of one track of the R/R while the other is constructed to maintain operations of the R/R. The proposed new connector roadway was designed to be constructed to connect Hennessy Boulevard and Perkins Road in Baton Rouge, Louisiana. The scope of work consisted of performing soil borings along the proposed roadway and the required laboratory testing to evaluate the existing subsurface soils conditions to			

	provide recommendations for: an effective pavement section, deep foundations to support the railroad bridge and proposed retaining walls, and retaining wall design parameters.
02/20-04/22	MOVEBR, Jones Creek Road Extension: Jefferson Highway to Airline Highway; Baton Rouge, LA - Project manager for this project. The project consisted of design and construction of a new, approximately 0.70-mile long, four-lane roadway extension to connect Jefferson Highway to Airline Highway, near Jones Creek Boulevard in Baton Rouge, Louisiana. The scope of work consisted of performing soil borings along the proposed roadway and the required laboratory testing to evaluate the existing subsurface soils conditions to provide recommendations for an effective pavement section.
01/17-09/19	LADOTD, Bayou Terrebonne; Terrebonne Parish, LA - Project engineer for the geotechnical exploration phase of this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge's site and the preparation of final boring logs in LA DOTD format.
01/17-09/19	LADOTD, US-80 Overpass at KCS RR; Lincoln Parish, LA - Project engineer for the geotechnical exploration phase of this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge's site and the preparation of final boring logs in LA DOTD format.
01/17-09/19	LADOTD, Nelson Road Extension and Bridges; Calcasieu Parish, LA - Project engineer for this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge's site and the preparation of final boring logs in LADOTD format and providing pile foundations recommendations for the proposed bridges.
01/17-09/19	LADOTD, Bayou Chevreuil Bridge Widening; St. James Parish, LA - Project engineer for the geotechnical exploration phase of this project. The project consisted of geotechnical field and laboratory testing services to determine the soil conditions at the bridge's site and the preparation of final boring logs in LA DOTD format.
01/10-12/11	LADOTD, Bridge Scour Projects; Statewide, LA - Project engineer for the Bridge Scour project for over 100 bridge locations across the state of Louisiana. The project consisted of the determination of soil parameters and calculation of pile capacities of existing bridge foundations.

16. Staff Experience:

Firm employed by	GeoEngineers, Inc.		
Name	Anthony (Chien-An) Ju, P.E.	Years of relevant experience with this employer	5
Title	Staff Geotechnical Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	M.S. / 2020 / Civil Engineering B.S. / 2018 / Civil Engineering		
Active registration number / state / expiration date	#PE.00050514 / LA / 03-31-2028		
Year registered	2025	Discipline	Civil Engineering Other Pertinent Training / Certifications Traffic Control Technician (The American Traffic Safety Services Association)
Contract role(s) / brief description of responsibilities	Geotechnical Engineer Anthony is a staff engineer who is actively involved in many of GeoEngineers' geotechnical explorations and evaluations since joining the firm in 2021. Anthony has been involved in many GeoEngineers projects, including LADOTD and CPRA projects listed below, performing field investigations using land-based, water-based, and amphibious drilling equipment.		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/24-Present	LADOTD, P3 I-10 Calcasieu River Bridge Geotechnical Engineering Services; Lake Charles, LA - Project manager for this historic public-private partnership (P3) that will redesign and renovate a six-mile stretch of I-10 running through Lake Charles, including the Calcasieu River Bridge itself, which has been outdated for decades. The finished project aims to improve traffic capacity with three through lanes in each direction, and renovate interchanges, shoulders, and bridges through the I-10 corridor to meet modern engineering standards and transportation needs. GeoEngineers' scope includes geotechnical design for bridge foundations, embankment slopes and retaining walls, lab testing, drilling, construction monitoring, and environmental support to deal with explorations within a known contamination plume. Anthony coordinates laboratory assignments and assists with the preparation of the bridge design report.		
01/19-11/24	LADOTD, I-10/Loyola Interchange Design Build; Kenner, LA: Anthony provided field monitoring of driven piles, including PDA and CAPWAP analysis for capacity. GeoEngineers completed the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity.		
10/21-Present	CPRA, East Orleans Landbridge Restoration (PO-191); Orleans Parish, LA - Served as a staff geotechnical engineer supporting the engineering analyses by reviewing field and laboratory data and selection of design soil parameters. This project will create approximately 1,563 acres of marsh which will be created and nourished by hydraulically dredging material from two potential locations - Lake Pontchartrain and Lake St. Catherine. The fill areas will be formed by constructing earthen containment dikes around the boundaries of each marsh creation area (MCA). GeoEngineers has performed field investigations and geotechnical analyses along with laboratory testing and reporting.		
02/21-11/21	CPRA, Phoenix Marsh Creation Project - East Increment (BS-0042) and West Increment (BS-0044); Plaquemines Parish, LA - Staff geotechnical engineer providing support with engineering analyses. The objective of the East Increment is to create and nourish approximately 392 acres of marsh and the objective of the West Increment is to create and nourish approximately 411 acres of marsh. His role included organizing and managing the field exploration efforts for the marsh creation areas and the borrow area in the Mississippi River. In addition, Anthony was instrumental in the engineering analyses for the marsh creation areas including stability of earthen containment dikes and marsh settlement.		
07/20-12/22	CPRA, Cameron Meadows Marsh Creation and Terracing (CS-66); Cameron Parish, LA - Served as a staff geotechnical engineer supporting the construction monitoring collecting sediment samples of the placed marsh fill for further analysis for this multi-faceted project that included marsh creation, terraces, a water control culvert structure, and an underground highway crossing for a hydraulic fill pump line.		

16. Staff Experience:

Firm employed by	GeoEngineers, Inc.		
Name	Kyle Kilfian, WWC	Years of relevant experience with this employer	12
Title	Drilling Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	B.S. / 2007 / Mechanical Engineering		
Active registration number / state / expiration date	Water Well License: #724 LA 06-30-2026		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Drilling Manager Kyle has been with GeoEngineers since 2014 and has excelled on a variety of projects involving geotechnical soil borings, environmental soil borings, construction monitoring, and cone penetration test (CPT) soundings. All field work has required coordination with clients, contractors, project engineers, landowners, and pipeline representatives. Kyle provides detailed daily field reports, including site photographs generated to document field activities. He also oversees the fabrication and modification of equipment depending upon project requirements and client specifications. Kyle has conducted geotechnical explorations that involved multiple CPT soundings and soil borings for several LA DOTD projects, including Caddo Lake Bridge, LA 485 Bridges, and the Tangipahoa River Bridge Replacement.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/24-Present	LADOTD, LA 835 Boeuf River Bridge; Near Concord, Richland Parish, LA - GeoEngineers is conducting geotechnical explorations and laboratory testing results for Phase 2 of the LA 561 Boeuf River Bridge Replacement project located near Hebert in Caldwell and Richland Parishes, LA. Kyle performed CPT soundings and soil borings for this project. The scope includes drilling eight soil borings, including five over water to depths of 110 feet below ground surface, evaluating soil properties in our laboratory, and consolidating data and findings into a report.		
01/19-11/24	LADOTD, Loyola Dr. I-10 Interchange to New Airport Terminal, Jefferson Parish, LA - GeoEngineers completed the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Kyle performed CPT soundings and soil borings for this project.		
08/12-07/15	LADOTD, I-210 Interchange at Cove Lane, Lake Charles, LA - Kyle performed CPT soundings and soil borings during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane with a field investigation including multiple simultaneous drilling and CPT rigs, with lane closures and traffic control. GeoEngineers’ completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations.		

16. Staff Experience:

Firm employed by		Urban Systems Associates, Inc.		
Name	Alison C. Michel, P.E., PTOE, PTP, RSP2i		Years of relevant experience with this employer	25
Title	President/Transportation Engineer		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			B.S. / 1997 / Civil Engineering	
Active registration number / state / expiration date			#PE.0030261 / LA / 03-31-2027	
Year registered	2002	Discipline	Civil Engineering Other Pertinent Training / Certifications Professional Traffic Operations Engineering (#1023, expires 11/06/26) Professional Transportation Planner (#626, expires 11/20/26) Road Safety Professional 2i (#148, expires 03/29) Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (6/4/18, 6/11/18, 9/10/18)	
Contract role(s) / brief description of responsibilities			Traffic QA/QC Ms. Michel has extensive design experience that includes Traffic Control Devices for work zones, intelligent transportation systems, signage, and striping. She has also prepared construction documents and provided construction engineering services for roadway modifications at intersections, point repairs and roadway reconstruction. This experience provides an in depth understanding of the LADOTD road design requirements, which will be useful when preparing traffic plans. Ms. Michel has completed the Highway Safety Manual course sponsored by the LADOTD and the NEPA and Transportation Decision Making course sponsored by the National Highway Institute. She has a wide array of experience with transportation studies including traffic management plans, safety, corridor, Stage 0/ feasibility, Stage 1/ environmental, multi-modal, and complete street facilities. She has experience in the timing of coordinated signal systems and progression analyses. She is proficient in microscopic simulation modeling using VISSIM and CORSIM and also in analysis programs such as Highway Capacity Software (HCS), Synchro, Tru-Traffic and SIDRA.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/20-Present	Louisiana DOTD, LA 23: Belle Chasse Bridge & Tunnel - Managing USI’s tasks for Owner Verification services focused on reviewing design plans for traffic related submittals from the design-builder. These submittals included capacity analysis, plans for traffic signals, signage and striping. Ms. Michel conducted Quality Assurance/Quality Control reviews to confirm adherence with LADOTD standards and the Manual of Uniform Traffic Control. During the construction, Ms. Michel may provide support by reviewing Traffic Control Devices Plans for proposed lane closures, detours and advanced warning signage.			
01/14-08/19	Louisiana DOTD, US 90 (I-49 South) Albertson’s Parkway to Ambassador Caffery Design-Build Project, Lafayette Parish, LA - Ms. Michel was a member of the key personnel for this design-build project as the Traffic Engineer. The project included converting US 90 to a controlled access facility by converting at-grade intersections to an interchange. The bridge structure had to span the intersection and railroad. She supervised the design and analysis and performed QA-QC for temporary and permanent signal plans, permanent signage plans, temporary traffic control plans and the Transportation Management Plan. Signal plans were prepared using the DOTDs latest TSI format. Analysis included developing design hour volumes for the design year and modeling signals in Synchro. Phasing and timing were developed for both permanent and temporary signal operation.			

12/18-05/19	Manhattan Signal Controller Upgrades - Traffic signal modification plans for 11 intersections along the Manhattan Boulevard corridor in Jefferson Parish, Louisiana were prepared in accordance with Jefferson Parish and Manual on Uniform Traffic Control Devices (MUTCD) standards. The modifications included controller component upgrades, video detection and pedestrian accommodations at select intersections. During the project Ms. Michel offered her technical expertise from over 17 years of designing traffic signals and preparing technical specifications for Jefferson Parish.
04/08-11/13	SP 700-99-0402 Statewide Safety Studies - Ms. Michel was project manager for the Statewide Safety Studies Retainer Contract. Task-orders were issued to evaluate the safety of intersections and corridors in Ascension, Lafourche, Natchitoches, Rapides, Terrebonne, Vernon Parishes and others. Ms. Michel conducted field investigations/ Road Safety Assessments in Districts 61 and 08. The studies involved collection of traffic data and a thorough review and analysis of crash reports. The resulting analysis led to either identifying the need for a feasibility study and/or the development of long- and short-term recommendations to reduce correctible crashes.
03/11-05/13	Huey P. Long Bridge Widening (Westbank and Eastbank Approaches and Main Bridge Deck Widening) - The contractor for the project brought on USI about half-way into construction to improve the flow of traffic during required closures. Ms. Michel prepared Traffic Control Device Plans (TCDP) for multiple phases of construction. The TCDPs also included the design of a traffic signal plan for the installation of temporary signal heads to control lane shifts.
05/09-05/10	LA 1088/I-12 Interchange - Updated the permanent signage plans for the interchange on I-12 at LA 1088 in St. Tammany Parish, LA to reflect the new alignment. Traffic Control Device Plans were designed based on the sequence of construction drawings and two phases of construction. Specifications for required S-items and a construction cost estimate were also provided.
02/10-07/10	US Army Corps of Engineers LPV 16.2 Bonnabel Boulevard Floodgate - Designed the Traffic Control Device Plans for construction of the LPV 16.2 Bonnabel Blvd. Floodgate in Jefferson Parish, LA. Plans included: haul routes, bypass for the ramp tie in to Bonnabel; diverting Bonnabel southbound traffic to the temporary bypass ramp; and diverting northbound traffic to Bonnabel southbound travel lanes. Plan changes due to unforeseen conditions included details for floodwall construction while diverting Bonnabel northbound and southbound traffic to the temporary roadway and closing Bonnabel Boulevard. The plans met US Army Corps of Engineers, Jefferson Parish and MUTCD standards. Inspections were conducted after any changes to the traffic control plan and/or at thirty (30) day intervals.
01/06-06/07	Intersection Improvements Livingston & St. John Parishes - Ms. Michel was project manager for intersection signal design for intersections on US 190, LA 3282 and LA 1030, where signalization was added or modified. A left turn lane was proposed to the eastbound approach of LA 64 and the westbound approach of LA 1026. A left turn lane was proposed on the eastbound LA 44 approach and separate right turn lanes on the LA 44 westbound and LA 3223 southbound approaches. The signage and striping was designed by Ms. Michel to incorporate the added lanes.

16. Staff Experience:

Firm employed by Urban Systems Associates, Inc.			
Name	Nicole Stewart, P.E., PTOE		Years of relevant experience with this employer
Title	Vice President / Transportation Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization	B.S. / 1997 / Civil Engineering		
Active registration number / state / expiration date	#PE.0034750 / LA / 09-30-2027		
Year registered	2009	Discipline	Civil Engineering
			Other Pertinent Training / Certifications Professional Traffic Operations Engineering (#2923, expires 08/14/27) Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (1/14/19, 1/14/19, 1/15/19) ATSSA Louisiana Traffic Control Supervisor (#840319) ATSSA Traffic Control Technician – Louisiana specific
Contract role(s) / brief description of responsibilities			Traffic Engineering / TMP Task Leader Ms. Stewart has 20 years of experience in Traffic and Transportation Engineering and is a certified Traffic Control Design Specialist. Ms. Stewart has designed numerous Traffic Control Devices Plans to meet LADOTD and MUTCD standards. Ms. Stewart has experience in Transportation/Traffic engineering including transportation studies, safety studies, traffic impact studies and the development of Transportation Management Plans. Her design experience includes signal design and timing of coordinated systems, striping, signage, geometric design, pavement design, and drainage. She has experience using Highway Capacity Software (HCS), Synchro, and TruTraffic in the timing and coordinating of traffic signals.
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/15-06/16	Louisiana DOTD, Bridge Preventative Maintenance District 61 – Principal-in-charge of developing Traffic Management Plans (TMP) for bridge replacement and repair projects at various locations in Louisiana. This included developing various levels of TMP’s based on LADOTD EDSM guidelines. Tasks included conducting capacity analysis, safety analysis and detour analysis, and developing proposed mitigations where applicable. For the reconstruction of the LA 1 bridge over the Intracoastal Waterway, a detailed Level 3 TMP was prepared. For this TMP, detailed work zone impact management strategies were developed to help minimize the project’s impact on mobility.		
07/23-10/23	LA 67 (Plank Road) over US 61 (Airline Highway) - A Level 3 Transportation Management Plan was prepared for the repairs to the Plank Road Bridge over Airline Highway. This effort was managed by Ms. Stewart. She led data collection and identified the traffic management challenges that would be faced during construction. She identified alternate routes that could be used while the necessary repairs were made and evaluated the expected traffic operations along the detour roadways. Ms. Stewart also played a key role in identifying traffic control phasing that would minimize the impact to motorists.		
10/17-04/19	TMP for US 90 Bridge Maintenance over I-10 Ramps at LockMoor - Ms. Stewart used the LADOTD EDSM guidelines to prepare key components of the traffic management plan (TMP) for proposed bridge repairs on US 90 from PPG Rd to the I-10 entrance ramp in Lake Charles, LA. Tasks include the preparation of collision diagrams, conducting safety analysis, detour analysis and developing proposed mitigations where applicable.		
05/18-04/19	Louisiana DOTD, TMP for I-10: West of 108 to I-210 Interchange: Rubblize and Overlay - As the lead engineer for this Traffic Management Plan, Ms. Stewart was responsible for preparation of the safety analysis that was conducted per the guidelines set forth by LADOTD in <i>Guidelines for Crash Data Analysis</i> . She conducted a queue analysis to identify when lane closures would be permitted, identified the construction impact area and reviewed		

	crash data for more than 350 collisions. Ms. Stewart identified trends and calculated crash rates and determined that the section of I-10 that was going to be rubblized had a crash rate that was higher than the statewide average and required mitigation.
02/18-03/20	Severn Ave: Veterans to W. Esplanade - Ms. Stewart was the traffic engineering project manager of this Jefferson Parish roadway reconstruction project. Severn Ave is a heavily travelled multi-lane boulevard requiring complex construction sequencing. Design plans were developed for temporary signals during construction and the permanent signal configurations with pedestrian accommodations. Signal plans were developed using the latest LADOTD TSI format. Ms. Stewart also managed the temporary traffic control plan development for multiple phases of construction, and she performed QA-QC. Another element of this project was coordination with Jefferson Parish and LADOTD to obtain approval of the Parish's equipment and specifications for use in the LADOTD bidding process.
12/16-04/21	France Road North Widening, New Orleans, LA - Over time, the pavement along France Rd. between Gentilly Blvd. and Hayne Blvd. had deteriorated and was in need of widening and drainage repairs. Adjacent to the west side of the roadway was a concrete floodwall that limited Right Of Way and the ability to maintain two-way traffic throughout construction. Ms. Stewart developed site specific Traffic Control Plans that implemented a one-way system and detoured traffic that would normally traverse in the opposite direction of the allowed movement. The plans were designed in accordance with the latest version of the MUTCD and City of New Orleans traffic control standards.
04/10-09/11	I-10 Crossing, Irish Bayou Bridge, New Orleans, LA - Project manager for this project which involved designing Traffic Control Devices Plans for the I-10 Highway Crossing Levee Enlargement project at Irish Bayou Road in New Orleans East. The plans included multiple and phased road closures of a six (6) lane section of Interstate 10 including nighttime closures. In addition to managing the project, she was responsible for QA-QC.
09/11-02/12	Williams Boulevard Floodgate - Designed Traffic Control Devices Plans , including haul routes, for the two phased closure of Williams Boulevard at the Lake Pontchartrain Levee Floodgate. The plans were prepared in accordance with Jefferson Parish and MUTCD Standards. Once the plan was implemented Ms. Stewart also conducted inspections.
05/06-07/11	Clearview Parkway at West Esplanade Intersection Improvements, New Orleans, LA - Ms. Stewart prepared permanent Traffic Signal Plans which included replacing the controller cabinet, mast arms, signal heads, power source, signs and vehicle detection and interconnect. She also prepared the Traffic Control Devices and Detour Plans to facilitate traffic through the phases of construction.
06/11-03/12	Southeast Louisiana Urban Flood Control Project Improvements to Two-Mile Canal (Patriot Street Canal), Phase I, Barataria Blvd. to First Avenue Canal - Ms. Stewart designed the Traffic Control Devices Plans for improvements to Two Mile Canal. These plans included traffic closure details, signage, flagmen, and haul routes. Ms. Stewart conducted inspections throughout construction to confirm compliance with the plans that had been approved by Jefferson Parish.
03/12-11/13	Louisiana DOTD, MacArthur Interchange Signal Modification/ Signage & Striping / Traffic Control Devices Plans - The traffic study to evaluate the existing and projected operating conditions of the lower Westbank Expressway was prepared by Ms. Stewart. In the second phase, Ms. Stewart designed the new traffic signals for the interchange and adjacent signalized intersections. She prepared the striping and signage plans to accommodate the ramp changes and prepared Traffic Control Devices Plans for the various stages of construction.
03/10-07/10	USACE Traffic Control Devices Plans - Designed numerous Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were designated when necessary. Many of the plans were for Corps of Engineers projects.
08/09-07/11	LA 3235 Corridor Safety Study - Lead engineer for LADOTD's LA 3235 Corridor Safety Study from LA 1 to LA 32 in Terrebonne Parish, LA. This study included the collection of crash data and reviewing more than three hundred (300) detailed collision reports. As a key part of this safety analysis, Ms. Stewart prepared the collision diagrams as a visual aid to assist with identifying trends and specific correctable factors that contributed to a higher crash frequency such as sight obstructions caused by intersection alignments, and pavement and lighting conditions.

16. Staff Experience:

Firm employed by		Urban Systems Associates, Inc.		
Name	Christine Darrah, P.E.		Years of relevant experience with this employer	10
Title	Transportation Engineer		Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			B.S. / 1997 / Civil Engineering	
Active registration number / state / expiration date			#PE.0025828 / LA / 09-30-2027	
Year registered	1999	Discipline	Civil Engineering Other Pertinent Training / Certifications Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (10/7/20, 10/7/20, 10/9/20) ATSSA Louisiana Traffic Control Supervisor (#873755) ATSSA Traffic Control Technician – Louisiana specific ATSSA Certified Flagger	
Contract role(s) / brief description of responsibilities			Traffic Engineering / TMP Mrs. Darrah has experience in Transportation/Civil Engineering including maintenance of traffic, plan and specification preparation, geometric design, construction management and quality control. She is proficient in the use of AutoCAD, Adobe Illustrator, and Highway Capacity Software (HCS). She also has experience using MicroStation and TransCAD. She has experience developing temporary striping and signage plans for various conditions including lane closures, road closures, flagging operations and full detour plans. Ms. Darrah also has experience in traffic signal design, warrants analysis, timing/phasing analysis, wiring diagrams, interconnect layouts, construction quantities, specifications and cost estimates.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/21-04/21	Entergy Louisiana, I-610 Transmission Line Crossing at Frenchman, Orleans Parish, LA - Project engineer for this interstate closure project to assure public safety during overhead transmission lines repairs. Included a full closure of both directions of I-610 and the westbound on-ramp at Elysian Fields Ave. in New Orleans. Ms. Darrah coordinated the six-hour interstate closure and associated detours with the LADOTD and City of New Orleans, LA. She designed Traffic Control Devices Plans that applied MUTCD, LADOTD and City of New Orleans standards for proper placement of traffic control devices, including portable changeable message boards. Ms. Darrah used AutoCAD to assist in the final preparation of plans.			
04/18-01/22	N. Peters Sidewalk Expansion, New Orleans, LA - Project manager responsible for the preparation of construction drawings and specifications for this sidewalk reconstruction adjacent to the Canal Place Shopping Center in the Downtown Development District (DDD). The plans included geometric layout, grading, drainage, street lighting, striping and traffic control. The plans followed all DDD, MUTCD, ADA, New Orleans DPW and S&WB requirements. Ms. Darrah also provided construction management services that included field inspections, responding to inquiries, and reviewing contractor invoices.			
09/14-12/14	Louisiana DOTD, SELA 26 Widening of Florida Ave. Canal Phase II and III, New Orleans, LA - Designed the Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate the safe movement of traffic efficiently through the traffic control zone. Haul routes were designated when necessary.			
01/14-07/17	North Terminal Louis Armstrong New Orleans International Airport, New Orleans, LA - Led the design of the Maintenance of Traffic Plans for the landside access roadways. The plans were designed in accordance with the Manual of Uniform Traffic Control Devices and LADOTD standards. Ms. Darrah also prepared specifications for the maintenance of traffic items.			

06/22-10/22	KCS Acadian Thruway, East Baton Rouge, LA - This project included lane closures and a full closure of Acadian Thruway at the KCS bridge near the I-10 interchange in East Baton Rouge Parish. Ms. Darrah prepared the Traffic Control Devices Plans while applying MUTCD and LADOTD standards for the proper placement of traffic control devices. Additional project efforts included designing lane closures on an I-10 on-ramp for laydown access and police-controlled haul routes.
03/17-03/18	Port of New Orleans, Milan Street Terminal, New Orleans, LA - As the project's lead engineer, Ms. Darrah designed Construction Sequencing and Permanent Striping Layouts and Signage plans. Construction sequencing included keeping port tenants fully operational through each phase of construction. All plans were prepared in accordance with LADOTD and MUTCD guidelines.
07/22-08/22	Mossville Traffic Control Devices Plan, Lake Charles, LA - As the project manager, Ms. Darrah designed Traffic Control Devices Plans for two rolling closures of I-10 and associated ramps in Lake Charles, LA for transmission line repairs. Efforts included the design of plans for interstate closures and detours. Ms. Darrah coordinated with the LADOTD and Calcasieu Parish in identifying optimal locations for Dynamic Message Signage placement.
11/20-02/23	US 190 at Northshore and Camp Villere Roundabouts, St. Tammany Parish, LA - As project engineer, Ms. Darrah oversaw the design of permanent striping and signage plans per LADOTD standards and specifications. She also managed the design of temporary traffic signals that would be required during the multiple phases of roundabout construction. A level 2 Traffic Management Plan (TMP) was also prepared. Ms. Darrah coordinated with the prime-consultant, St Tammany Parish, and LADOTD as needed.
05/20-12/22	Williams Traffic Signals - Ms. Darrah assisted with the design of signal modifications for three coordinated signals. She was tasked with developing coordination plans, equipment layouts, wiring diagrams, and quantities. The traffic signal plans were prepared using the latest LADOTD TSI format. Other tasks included the addition of pedestrian accommodations including walk/ don't walk signal heads and audible push buttons.

16. Staff Experience:

Firm employed by		Urban Systems Associates, Inc.		
Name	Matthew Morgan, P.E., PTOE		Years of relevant experience with this employer	11
Title	Transportation Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S. / 2009 / Civil Engineering	
Active registration number / state / expiration date			#PE.0047060 / LA / 03-31-2027	
Year registered	2022	Discipline	Civil Engineering Other Pertinent Training / Certifications Professional Traffic Operations Engineer (PTOE - #5893, expires 3/19/2028) Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (2/25/19, 2/25/19, 2/26/19)	
Contract role(s) / brief description of responsibilities			Traffic Engineering /TMP Matt has experience that ranges from starting as a Data Collection Manager while in college to an E.I , P.E. and now a PTOE for Traffic Engineering/ Transportation planning projects. Mr. Morgan has been a team member for many projects that involved intersection, freeway, and highway analysis. He has assisted with Traffic Impact Studies, Traffic Control Device Plans, Interchange Modification/Justification Reports, Stage 0 Studies, Transportation Management Plans, and a variety of other studies. His design expertise includes traffic signals, signage and striping. He has been heavily involved in complete streets projects with a focus on bike/ pedestrian facilities. Matt’s wide range of experience in a short time will bring creativity and innovation to projects when traditional methods won’t meet the unique needs of the community. He is proficient in a variety of software including PetraPro, TraxPro, MetroCount, Excel, AutoCAD, SIDRA, HCS, SIDRA, VISSIM, CORSIM, and Adobe Suite.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
09/20-07/21	Port Allen Canal Bridge TMP - Assisted with the preparation of the Port Allen Traffic Management Plan by leading the traffic data collection and analysis efforts. His responsibilities included collecting and reviewing traffic count data, turning movement volumes, and queue observations at key intersections throughout the project area. Mr. Morgan performed detailed queue length analyses to evaluate intersection performance and identify potential congestion and delay points under both existing and proposed conditions. He also contributed to the safety assessment by reviewing field observations, identifying areas with elevated risk of conflict, and developing recommendations to enhance safety during construction activities. In addition, he assisted in compiling data summaries and supporting materials for inclusion in the final Traffic Management Plan report.			
09/23-Present	I-10 NO CBD3 (Poydras-Louisa - The project objective was to identify strategies to minimize traffic delays and enhance safety within the I-10 corridor through downtown New Orleans during construction activities. Mr. Morgan contributed to the preparation of the Transportation Management Plan (TMP) by leading the safety analysis and developing the traffic management documentation in accordance with LADOTD’s TMP requirements. He analyzed crash data within the project impact area to establish baseline safety performance and identify potential areas of concern. In addition, Mr. Morgan assisted with the preparation of temporary traffic control plan elements to support safe and efficient traffic operations throughout the construction period.			
03/22-09/22	Hundred Oaks Broussard Bridges TCDP - Traffic Control Devices Plans (TCDP) were needed in East Baton Rouge Parish, LA to provide adequate advanced notice and signage to drivers for the closure of two local road bridges. Mr. Morgan led the design of the TCDP for each bridge closure which incorporated local municipalities’ standards, and the Manual on Uniform Traffic Control Devices (MUTCD). Aerial photography was used to designate placement of detour and advanced warning signage. He oversaw the creation of the plans in AutoCAD.			
01/25-Present	Bonnabel Drainage Improvements - The objective of the project was to design a traffic signal modification to accommodate construction of a culvert on the west side of the signalized intersection of Bonnabel Blvd at Veterans Blvd. Mr. Morgan assisted in the development of signal modification plans in			

	accordance with Jefferson Parish standards and the Manual on Uniform Traffic Control Devices (MUTCD). He contributed to adjustments in signal equipment and layout to maintain safe and efficient traffic operations during construction. Mr. Morgan also assisted in the preparation of Traffic Control Device Plans (TCDP) to support the phased construction activities.
06/20-08/20	Districtwide Intersection Improvement Project (District 6) - Assisted the lead designer for a project to develop low-cost safety improvements at 16 intersections throughout District 6 in Mississippi, including striping and signage. Tasks he performed included field visits at each intersection to confirm existing conditions and assist with developing a plan targeted at improving safety based on the type of intersection and level of severity previously determined by MDOT. The tasks also included evaluating each intersection to identify underlying safety issues such as sight distance and pavement conditions. Mr. Morgan assisted in developing construction/stripping plans and cost estimates using MDOT's templates and standards.
01/23-11/24	Inner Harbor Navigation Canal (IHNC) Lock Replacement Traffic Study - Lead Engineer for a traffic study to analyze existing and projected vehicular operational and safety conditions for the Inner Harbor Navigational Canal (IHNC) lock replacement near the St. Claude, Claiborne, and Florida Bridges. He conducted field observations and assisted in the collection of vehicular volume, class and speed data. Mr. Morgan reviewed the vehicular data along with historical bridge logs, which included when bridges opened to allow marine vessels to pass and halted vehicular traffic, to identify peak periods for analysis. He reviewed the Regional Planning Commission's Regional Transportation model data to estimate the anticipated growth in the study area. Mr. Morgan reviewed crash/safety history to identify crash characteristics, the Level of Service of Safety (LOSS) for major intersections, existing safety concerns, and high crash locations. He analyzed existing and future conditions using VISSIM microscopic traffic simulation software and compared measures of effectiveness. He also prepared technical reports that summarized the data collection, safety findings, and analysis results, and participated in weekly meetings with stakeholders to communicate and coordinate project milestones.

16. Staff Experience:

Firm employed by		Franklin Associates, LLC	
Name	Angela Noote	Years of relevant experience with this employer	3
Title	Project Manager	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization		B.A. / 1991 / Communications – Public Relations	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Public Outreach Lead Angela leads Franklin Associates’ project communication efforts with more than 30 years of communications experience as a writer, editor, marketer, communications director and lobbyist. She has contributed to crisis communications/reputation management for clients benefiting from her messaging and brand management experience. Her tailored communications plans emphasize increasing engagement through a variety of channels including social media, traditional media, and the web. She is certified in data analytics and focuses on capturing key engagement metrics to make data-driven decisions on messaging while providing detailed data reports to clients.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/24-Present	LADOTD, Belle Chasse Bridge and Tunnel Replacement Project - As Public Information Officer for this project she manages all communications for the project. Her efforts support tolling education through public channels, including newsletter, media releases, and social media posts. She fields all public inquiries and research, creates timely responses, keeps the public updated on construction progress and traffic impacts, and serves as the official media spokesperson for the project whereby she schedules, participates in, and tracks the amount, tone, and sentiment of media coverage.		
06/23-Present	LADOTD, Calcasieu River Bridge Replacement Project - As the Public Information Officer, she writes and disseminates public notices and press releases concerning project updates and impacts to the community and is responsible for maintaining documentation of and coordinating responses to inquiries related to all aspects of the project, including residents, business owners, and government leaders. Information is presented to the public via social media, open houses, community education events, and meetings with special interest groups. She also tracks and reports on monthly communications metrics.		
08/23-Present	Northwest Louisiana Council of Governments (NLCOG), I-49 Inner-City Connector - As the Communications Project Manager, she is led the public outreach efforts for the final Phase 0 public meeting for the I-49 Inner-City Connector in Shreveport. This included stakeholder engagement, media relations, meeting promotion and all meeting logistics, followed by a detailed report for the DOTD which included a summary of the tone and sentiment of public comments. She provides ongoing maintenance and updates of the project’s website content.		
08/23-Present	University Lakes Public Engagement and Communications Project, Louisiana State University Foundation - Communications Project Manager responsible for leading the project’s media relations efforts, which includes setting up interviews and media tracking.		

16. Staff Experience:

Firm employed by		Franklin Associates, LLC	
Name	James Taylor, MLA, AICP	Years of relevant experience with this employer	15
Title	Subject Matter Expert	Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization		MLA / 1996 / Master of Landscape Architecture B.S. / 1989 / Horticulture	
Active registration number / state / expiration date		#021110	
Year registered	2006	Discipline	Certified Planner, American Institute of Certified Planners
Contract role(s) / brief description of responsibilities		Public Outreach Lead James has 34 years of experience with public sector planning, redevelopment, design, and public engagement projects. In Louisiana, he has primarily focused on public engagement conforming to NEPA policy requirements for public transportation infrastructure projects. He uses GIS, spreadsheets and other analytical tools to make sense of data through spatial mapping to reveal patterns which better identify the impact of outreach efforts or to better understand the populations potentially affected by a project. He helps clients understand the impact and return on their investments through website, social media, and email campaign analytics. He has worked on over 150 projects as a certified urban planner, which include park and recreation facility designs, regional recreation and open space master plans, commercial landscape and irrigation designs, ecological and habitat restoration plans, cultural and heritage tourism plans, and redevelopment plans	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/25-Present	Iberville Parish Master Plan Update, Plaquemine, LA - Senior Project Manager responsible for guiding the drafting and implementation of a stakeholder engagement plan. Identifies and informs project stakeholders, provides public engagement coordination, outreach materials, content development, survey deployment and analysis, website management, and documentation of efforts.		
02/25-Present	Plan Baton Rouge III, Baton Rouge, LA - Subject Matter Expert assisting with creation of the public engagement strategy. Established engagement objectives, success measures, and outreach approaches; provides support in planning and facilitating focus groups and public participation events; and participates in analyzing community input and synthesizing data collected through engagement activities.		
11/20-Present	I-10 Widening Baton Rouge CMAR, Baton Rouge, LA - Public Engagement Lead responsible for drafting and then guiding the implementation of a stakeholder engagement plan. Identifies and informs project stakeholders; provides public engagement coordination, outreach materials, content development, survey deployment and analysis, website management, and documentation of efforts; and maintains compliance with NEPA policy guidelines and best practices.		
02/22 - Present	Mississippi River Bridge South – LA 1 to LA 30 Pre-NEPA Study, Plaquemine, LA - Public Engagement Lead responsible for coordinating public engagement, outreach materials content development, survey creation, deployment and analysis, web content management, and design for project exhibits and materials while maintaining compliance with NEPA policy guidelines and best practices. The project is now proceeding into the official NEPA Environmental Assessment phase during which Franklin’s participation in coordinating public engagement efforts continues.		
01/25-04/25	I-10 Washington St. Exit Closure, Baton Rouge, LA - Public Engagement Lead responsible for the development of an environmental justice (EJ) stakeholder and mailing list using demographic analysis and Property Assessor parcel data to support targeted outreach and NEPA-related engagement requirements. Led community engagement efforts through mailed notices, door-to-door canvassing, informational materials, survey coordination, and community information kiosks to gather and document public feedback regarding the proposed exit ramp closure.		

05/23-10/24	Florida Corridor Master Plan, Baton Rouge, LA – Reviewed and assisted with crafting of the public engagement plan, provided support in stakeholder identification and engagement, assisted with public meeting facilitation, designed and assisted with the facilitation of stakeholder engagement exercises, provided historical context and localized facts to the consultant team, and assisted with project documentation.
10/23-10/24	Evangeline Corridor Action Plan, Lafayette LA - Responsible for public engagement support. Assisted with the coordination of public engagement and venue preparations; facilitation of stakeholder and general public meetings, meeting documentation support and photography, planning content review and critiques, project website content preparation and formatting, and drafting of narrative.
04/23-12/23	FUTUREBR Master Plan, Baton Rouge, LA - Public Engagement Lead. Created the stakeholder and public engagement plan, led venue coordination and guided the production of promotional materials, facilitated public meetings and stakeholder interactions, and compiled event and feedback documentation.
01/21-11/22	SWLA, Baton Rouge, LA - Public Engagement Support. Assisted with creation of the stakeholder and public engagement plan; coordinated facility evaluations, venue reservations and event setup; led the production of event promotional materials and announcements; and provided public meeting facilitation assistance, stakeholder engagement, and documentation of the process and resulting feedback.
10/19-08/19	I-10 Improvements (DOTD Stages 0 and 1), Baton Rouge, LA - Public Engagement Lead. Drafted and guided the implementation of a stakeholder engagement plan; organized multiple rounds of geographically distributed public meetings; directed two scientific telephone poll surveys by the LSU School of Public Policy, augmented with an online poll advertised through traditional and social media; assisted with meeting facilitation, stakeholder and elected officials' engagement, and documentation; and led all survey development, data analysis of community stakeholder input, and project documentation.
10/11-Present	I-49 Inner City Connector (DOTD Stage 1), Northwest Louisiana Council of Governments (NLCOG), Shreveport, LA - Visioning and Public Engagement Lead. Managed multiple rounds of public engagement meetings; developed and implemented visioning exercises, advertising, neighborhood canvassing, public input documentation, agency coordination, stakeholder group facilitation, and governmental relations; and assisted with translating technical information into accessible formats during the DOTD's Stage 0 feasibility study and Stage 1 NEPA environmental impact statement for this 3.5-mile connection of I-49 through Shreveport.

17. Firm Experience:

Firm name	TRC Engineers, Inc.		Discipline(s)	Bridge
Project name	IDIQ Contract for Bridge Preservation (On-System)		Firm responsibility (prime or sub?)	Prime
Project number	4400024185	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide Louisiana		Owner's Project Manager	Brian Allen, P.E.
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA 70802-4438 (225) 379-1840 Brian.allen@la.gov			
Services commenced by this firm (mm/yy)	09/22	Total consultant contract cost (\$1,000's)		\$1,142
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		\$945

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

Provided engineering and related services under a retainer contract that includes alternate bridge alignment study, roadway design, maintenance of traffic design, bridge structural inspections and evaluations, bridge repair design, conceptual bridge design, topographic surveying, drafting, and construction related services to include shop drawing reviews at proposed bridge sites throughout Louisiana.



Project Relevance:

- Task order based contract
- Structural rehab/repair plans
- Bridge inspection
- Alternative alignment study
- Construction phase engineering services

To date, TRC has been assigned a total of four (4) Task Orders under this contract which consist of the following:

- **H.010885.5, LA 91: Bayou Plaquemine Brule Bridge Replacement, Acadia Parish, LA** - Initial services involved the completion of a study for bridge alignment alternatives. The study took into account utility conflicts, right-of-way acquisition, maintenance of traffic, and overall cost. The project was ultimately placed on hold, then issued to the Office of Louisiana Highway Construction for completion.
- **H.015424.5, LA 67: Plank Rd. @ Airline Girder Repair, Baton Rouge, LA** – Final design for steel and concrete girder repairs, cleaning & painting. Associated work included the removal and repair of an overhead sign, repair of reinforced concrete beams with FRP, and repairs to the steel girder which consisted of heart straightening and installing repair plates to strengthen the fractured lower flange to restore capacity. A temporary shoring and jacking scheme were developed and incorporated into the steel girder repair scheme to monitor girder deflection and removed dead load moment during the repair to restore the original girder capacity.
- **H.015424.6, LA 67: Plank Rd. @ Airline Girder Repair, Baton Rouge, LA** - Construction services consisting of responding to RFI's, reviewing shop drawings, erection schemes and corresponding calculations and other submittal reviews.
- **H.016046.5, US 190: Atchafalaya R @ K'Springs Repairs, St. Landry Parish, LA** – Final design for truss repairs and modular joint replacement. Repairs included concrete barrier rail repairs, in-kind replacement of false chord slide plates, deck expansion joint repair and seal replacement, and replacement of modular joints with finger joints.
- **H.011996.5, LA 182: Charenton Bridge Rehab (HBI), Route LA 182, St. Mary Parish, LA** - The Charenton Bridge was built in 1941 and is designated as a Preservation Candidate bridge for Historic Bridge Improvement (HBI). The bridge is a 2,422-foot-long structure consisting of 52 reinforced concrete girder approach spans and one 300 foot simply supported K through truss span. The work will include a Level 3 TMP and repair and rehabilitation plans.

STAFF TO BE USED IN THIS PROPOSAL: Durk Krone, Janet Crouse, Xianzhi (Sage) Liu, Michael Schrepfer, Michael Paul, Dong Wang

17. Firm Experience:

Firm name	TRC Engineers, Inc.		Discipline(s)		Bridge	
Project name	Retainer Contract for Bridge Preservation (On-System)				Firm responsibility (prime or sub?)	Prime
Project number	700-99-0429		Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana			Owner's Project Manager	Kian Lam Yap, P.E.	
Owner's address, phone, email	1201 Capital Access Rd., Rm 405-T, Baton Rouge, LA 70802-4438 (225) 379-1330 Kian.Yap@LA.gov					
Services commenced by this firm (mm/yy)		01/08	Total consultant contract cost (\$1,000's)			\$2,400
Services completed by this firm (mm/yy)		01/14	Cost of consultant services provided by this firm (\$1,000's)			\$2,000

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



Project Relevance:

- Task order based contract
- Structural rehab/repair plans (fixed and movable)
- Permit tasks
- MOT plans
- Lighting

Provided engineering and related services under a retainer contract that included roadway design, roadway lighting design, fixed and movable bridge design, permit sketches, drafting, and construction related services at proposed bridge sites throughout Louisiana. A sampling of the Task Orders completed under the contract includes:

- Rehabilitation of I-10 Mississippi River Bridge at Baton Rouge - False chord expansion devise modifications and drainage system modifications; floor beam and floor beam connection distortional crack retrofit repairs; crack treatment and 1-3/8" epoxy-urethane co-polymer overlay system for bridge decks; overall maintenance of traffic scheme; and construction engineering related services.
- Little Caillou Bayou Bridge (movable), Bayou Lacarpe Bridge (movable) - Structural repair engineering services, cleaning and painting, construction cost estimate
- Union Pacific Railroad near Greenwood - Complex structural analysis and plan preparation for a heavily-skewed, 345-foot shallow steel plate girder superstructure (110', 125', 110') using MDX software)
- LA 77 & 78 Left-Turn Lanes (design of 285', 3-span continuous prestressed concrete girder bridge on prestressed concrete pile trestles)
- Bayou Queue De Tortue Spot Replacement on LA 705, Route LA 705, Vermilion Parish
- West Choudrant Creek Relief Bridge Scour Repairs, Route 1-20, Lincoln Parish
- Beaver Creek Scour Repairs, Route LA 1051, Tangipahoa Parish
- Scour Repair at Pier 2 and 3 Middle Pearl River, Route US 90, St. Tammany Parish
- Bear Creek Relief Bridges Scour Repair, Route 1-20, Bienville Parish
- Bear Creek, Young's Bayou, Dugdemonia River and Flagon Bayou Scour Repairs, Routes US 165 and LA 6, Grant, Natchitoches, Winn and Rapides Parishes
- Coulee De Manuel, Anselm Coulee and Long Point Gully Scour Repairs, Routes LA 29, LA 733 and LA 13, Evangeline, Lafayette and Acadia Parishes

STAFF TO BE USED IN THIS PROPOSAL: Durk Krone, Michael Paul, Xianzhi (Sage) Liu

17. Firm Experience:

Firm name	TRC Engineers, Inc.		Discipline(s)		Bridge	
Project name	Retainer Contract for Bridge Preservation (On-System)				Firm responsibility (prime or sub?)	Prime
Project number	700-99-0429		Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide Louisiana			Owner's Project Manager	Kian Lam Yap, P.E.	
Owner's address, phone, email	1201 Capital Access Rd., Rm 405-T, Baton Rouge, LA 70802 (225) 379-1330 Kian.Yap@LA.gov					
Services commenced by this firm (mm/yy)		08/12	Total consultant contract cost (\$1,000's)			\$11,300
Services completed by this firm (mm/yy)		08/17	Cost of consultant services provided by this firm (\$1,000's)			\$8,441

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



Project Relevance:

- Structural rehab/repair plans (fixed and movable)
- Task order based contract
- Permit tasks
- Mechanical and electrical rehabilitation (movable)
- Load ratings
- Bridge inspection
- Lighting
- Instrumentation & load testing

Provided engineering and related services under a retainer contract that includes roadway design, roadway lighting design, fixed and movable bridge design, preliminary and final bridge designs, topographic surveying, bridge structural inspections and evaluations and load ratings, testing and sampling, instrumentation and non-destructive load testing, environmental permit services, drafting, and construction related services to include shop drawing reviews at proposed bridge sites throughout Louisiana.

TRC was assigned a total of eight (8) Task Orders under this contract, the most relevant of which consists of the following:

- H.003866.5, I-49 North / I-220 interchange - ramp structures, new bridge design
- H.002133.5, Bayou Queue De Tortue - roadway and bridge replacement design
- H.002562.5, Bayou LaLoutre Vertical Lift Bridge - condition assessment, rehabilitation design, electrical system design, operator house design and foundation
- H.001234.5, LA 1 Port Allen Canal Bridge - preliminary design and roadway design, including traffic studies and counts
- H.003495.6, I-49 North, Segment K, Phase 1 - construction services, RFI and submittal reviews
- H.011111.6, I-49 North, Segment K, Phase 2 - construction services, RFI and submittal reviews
- H.009106.5, US 90 over Bayou Ramos - live load testing and bridge monitoring
- H.009859.5, US 90 over Bayou Ramos and US 61 over Bonnet Carre Spillway - bridge load monitoring and maintenance

STAFF TO BE USED IN THIS PROPOSAL: Durk Krone, Michael Paul, Xianzhi (Sage) Liu, Michael Schrepfer

17. Firm Experience:

Firm name	TRC Engineers, Inc.	Discipline(s)	Bridge
Project name	IDIQ Contract for Complex Bridge Rating On-System Trusses and other Complex Bridges		Firm responsibility (prime or sub?) Prime
Project number	400004920	Owner's name	Louisiana Department of Transportation and Development
Project location	Statewide	Owner's Project Manager	William Metcalf, P.E.
Owner's address, phone, email	1201 Capital Access Rd., Rm 405-T, Baton Rouge, LA 70802 (225) 379-1741 William.Metcalf@LA.gov		
Services commenced by this firm (mm/yy)	03/15	Total consultant contract cost (\$1,000's)	\$4,784
Services completed by this firm (mm/yy)	03/20	Cost of consultant services provided by this firm (\$1,000's)	\$3,532

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



Project Relevance:

- Task order based contract
- Complex bridge structures
- Load rating
- Development of repair strategies
- Bridge inspections

TRC performed engineering services associated with the completion of complex bridge rating (on-system trusses and movable bridges per MBE) for statewide projects covered by a Retainer Contract under separate Task Orders. Services being completed under this 5-year contract include: **Plan and Document Retrieval and Review; Bridge Inspection** for the purpose of producing the most accurate rating by accounting for field conditions and gathering field measurements to assist with load rating and record recovery; performance of a **System Structural Modeling and Analysis** of each assigned bridge to determine dead load and live load effects in the members, including the use of a three-dimensional structural model for complex bridges when required; **Load Rating** of each assigned bridge based on present condition, capacity and loading using AASHTOWare BrR software, with all structures being rated using the load rating provisions in the Current AASHTO Manual for Bridge Evaluation and the DOTD Policies and Guidelines for Bridge Rating and Evaluation; **Peer Review Ratings**, other reviews of ratings performed by others; Quality Assurance reviews of all load ratings; generation of **Repair Strategies and Plan Documents** for bridges when needed; and the **Sampling, Instrumentation and Non-destructive Testing** of existing materials for evaluation as needed. The bridges assigned to TRC under the two Task Orders to date included the following:

- Bridge over Bayou Teche at Adeline (movable)
- LA 47 Gulf Intracoastal Waterway (tied arch/deck truss)
- LA 27 over Intracoastal Waterway Bridge (movable)
- LA 657 over Bayou LaFourche (movable)
- LA 319 Intracoastal Canal Bridge (movable)
- LA 1 Bridge over Atchafalaya River (truss)
- US 90 Riverbound Expressway (deck truss)
- LA 654 over Bayou LaFourche (movable)
- LA 83 over Patout Bayou (movable)
- Local Road over Bayou Terrebonne (movable)

TRC also coordinated work on the following bridges which were completed on behalf of the TRC team by our sub-consultants under the two assigned Task Orders: Charenton Bridge, Jackson Street Bridge, West Middle Pearl River Bridge, and LA 2 Millers Bluff bridge.

STAFF TO BE USED IN THIS PROPOSAL: Durk Krone, Xianzhi (Sage) Liu, Michael Paul, Dong Wang, Michael Schrepfer, Nichole Caiazzo

17. Firm Experience:

Firm name	TRC Engineers, Inc.		Discipline(s)		Bridge	
Project name	LA 47: IWGO Bridge Rehabilitation				Firm responsibility (prime or sub?)	Prime
Project number	H.011965.5 H.011965.5-2	Owner's name	Louisiana Department of Transportation and Development			
Project location	Orleans Parish			Owner's Project Manager	Kelly Kemp	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802-4438 (225) 379-1809 Kelly.Kemp@LA.gov					
Services commenced by this firm (mm/yy)		03/17	Total consultant contract cost (\$1,000's)			\$2,382
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$1,955

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



Project Relevance:

- Complex Bridge Structure (network-tied arch)
- In-depth Bridge inspection
- Structural rehabilitation plans
- Coating study
- Load rating

TRC has been responsible for the development of preliminary and final plans to address the repair and rehabilitation of all substructure and superstructure elements of this historically designated bridge consisting of 1,248 feet of steel main spans with cantilevered arms and tied-arch (main span); 3,304 feet of welded steel girder approaches; 1,590 feet of prestressed girder approach spans; and 480 feet of concrete slab spans. Work items associated with the repair, cleaning and painting of the structure were defined using on-site inspections supplemented with previous LaDOTD and consultant developed inspection reports, non-destructive testing reports, load rating reports, and as-built and widening plans. Resulting deliverables included preliminary and final plans, pay items, and quantities.

Prior to development of Final Plans, TRC conducted an in-depth inspection to include deficient elements in the final rehabilitation plans. A part of this in-depth inspection, TRC performed bridge washing and mechanical removal of debris from key areas of the superstructure and substructure. The purpose of the washing and debris removal was to remove debris that had historically prevented a hands-on or visual inspection of key members. In an effort to get a better understanding of the current conditions related to abnormal bridge movements at the main truss spans and provide a baseline for future monitoring of the bridge, TRC subcontracted a 3D scanning survey of the truss and adjacent approach spans using NTB Associates.

As a separate Task Order during preliminary engineering, TRC managed the completion of a study to identify and conduct testing on various coating systems to determine their potential to provide 50 years of maintenance-free service life. TRC managed and coordinated with a paint consultant to carry out the study which identified a coating manufactured by TNEMEC Company, Inc. as being superior to the other 13 systems evaluated.

Engineering support is presently being provided during construction which includes responding to RFI's and Contractor Proposals. Additionally, TRC is responsible for reviewing shop drawings, calculations and working drawings and other submittals. As part of the

construction support, TRC is assisting the La DOTD with reviewing an inspection and repair report done by a separate consultant for the tie girder T1 steel butt welds. This report included testing at the weld locations and identifying rejectable areas and additionally repair recommendations and load rating.

Notably, TRC first became involved with work on this bridge when we conducted a complete hands-on in-depth inspection in 2006 on all components of the bridge. A coating evaluation was also conducted at the time to determine the condition of the existing coatings and recommend alternatives for coating rehabilitation. Additionally, acoustic emissions and strain gauge inspection and monitoring was used to evaluate the retrofit of cracks in the lower chord member between panel points L15-L16 to determine the condition and status of the cracks under the current traffic loads. In 2016, TRC also conducted a special load rating inspection that focused on the visible defects and deterioration of the primary and secondary load carrying members in the approach and main truss spans. AASHTOWare BrR Version 6.7 was used for the load rating for all structural elements that could be modeled and load rated by the software which included the PPC girders, straight steel girders, truss, floorbeams and stringers.

STAFF TO BE USED IN THIS PROPOSAL: Durk Krone, Michael Paul, Michael Schrepfer, Xianzhi (Sage) Liu

17. Firm Experience:

Firm name	WSP USA Inc.		Discipline(s)	Bridge
Project name	Comprehensive Bridge Asset Management Program		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	City of Pittsburgh	
Project location	Pittsburgh, PA		Owner's Project Manager	Eric Setzler
Owner's address, phone, email	414 Grant Street, Room 301, Pittsburgh, PA 15219 412. 477.6066 eric.setzler@pittsburghpa.gov			
Services commenced by this firm (mm/yy)	08/22	Total consultant contract cost (\$1,000's)		\$1,222
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm (\$1,000's)		\$1,222

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

As a result of the Fern Hollow Bridge Collapse, WSP and its team were hired to help rebuild the City of Pittsburgh's bridge program by suggesting hires to its Bridge Maintenance and Bridges/Structures Division staff, recommendations for equipment purchases and rentals, and changes to its policies to get bridge projects from idea to Construction quicker. This work also included providing a prioritized list of bridge repairs and projects with new cost estimates to perform the Right Treatment at the Right Time, versus programming projects via the Worst First method.

Services that were provided consisted of:

- Review of current bridge conditions for 146 bridges.
- Report to Mayor Gainey within 2 months after NTP (8/31/22)
- Develop a list of Intermediate/Near-Term Needs.
- Create a prioritized list of repairs.
- Develop a Comprehensive Bridge Asset Management Plan.
- Develop Recommendations for Implementation - Report 5c and 5d

WSP reviewed the City of Pittsburgh's bridge inventory data (design and as-built plans, inspection reports, and associated general condition and condition state ratings, and load rating reports) to discern their condition and maintenance history. After reviewing and consolidating available information, WSP developed reports for each of the above tasks.

STAFF TO BE USED IN THIS PROPOSAL: Louis Ruzzi, Alexandra Beyer

17. Firm Experience:

Firm name	WSP USA Inc.		Discipline(s)	Bridge
Project name	Seattle Bridge Life Cycle Cost Analysis		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Seattle Department of Transportation	
Project location	Seattle, WA		Owner's Project Manager	Angel Garcia
Owner's address, phone, email	700 5th Avenue, Suite 3800, Seattle, WA 98124 206. 930.1284 Angel.Garcia@seattle.gov			
Services commenced by this firm (mm/yy)	07/22	Total consultant contract cost (\$1,000's)		\$410
Services completed by this firm (mm/yy)	01/24	Cost of consultant services provided by this firm (\$1,000's)		\$410

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

The Seattle DOT BLCCA project focused on performing a Bridge Life-Cycle Cost Analysis of SDOT's bridge inventory. This assessment updated the estimated useful life of the bridges using condition data of individual bridge components, while focusing on developing a plan for maintenance, preservation, and replacements. The effort included the development of lifecycle costs to support SDOT's long-term financial strategy.

SDOT's specific goals of this effort were to aid in addressing certain recommendations of a 2010 audit from the Office of City Auditor, specifically:

- Improve the documentation of bridge condition and inspection data
- Updating the estimated useful life of Seattle's bridges using the condition data of individual bridge components
- Using the updated useful life estimates for Seattle's bridges to plan for preservation work and lifecycle costs
- Developing a strategic asset management plan for Seattle's bridges and implementing strategies to close the bridge maintenance funding gap

WSP reviewed SDOT's bridge inventory data (design and as-built plans, inspection reports, and associated general condition and condition state ratings, and load rating reports) to discern their condition and maintenance history. After reviewing and consolidating available information on subject bridges in the SDOT inventory, WSP developed a Life Cycle Plan through a series of progressive tasks.

STAFF TO BE USED IN THIS PROPOSAL: Louis Ruzzi, Alex Thelemann

17. Firm Experience:

Firm name	WSP USA Inc.		Discipline(s)	Bridge
Project name	District of Columbia Transportation Asset Management Plan		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	The District Department of Transportation (DDOT)	
Project location	Washington, DC		Owner's Project Manager	Wolde Makonnen
Owner's address, phone, email	250 M Street, SE, Washington, DC 20003 202.391.8199 Wolde.makonnen@dc.gov			
Services commenced by this firm (mm/yy)	06/26	Total consultant contract cost (\$1,000's)		\$1,499
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		\$1,499

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

WSP assisted the District Department of Transportation (DDOT) in developing its initial (2018), 2019, and 2022 Transportation Asset Management Plans (TAMPs) and in achieving full FHWA certification. The team has been awarded another contract to update the 2026 TAMP, support target-setting for PM2 measures, and assist the DDOT in reporting PM2 measures as part of TPM reporting.

In addition to developing and updating the TAMPs, WSP has developed element-level deterioration models for the agency's bridges using 10 years of element data stored in AASHTOWare BrM and established network policies for bridge management. They are using the developed models and cost information gathered from different state DOTs and experts to customize the AASHTOWare BrM software for network-level and bridge-level scenario analysis and the development of maintenance and rehabilitation plans. In addition, we are developing an Excel-based tool to complement BrM analysis. This tool uses DDOT's bridge management policies to recommend multiple work types over multiple years based on the bridge's NBI component and element condition.

The DDOT is currently implementing this tool in AASHTOWare BrM to support bridge management.

STAFF TO BE USED IN THIS PROPOSAL: Richard Boadi

17. Firm Experience:

Firm name	NTB Associates, Inc.		Discipline(s)		Survey	
Project name	Rural Bridge Replacement Initiative Phase II			Firm responsibility (prime or sub?)		Sub
Project number	4400019338	Owner's name	LaDOTD Baton Rouge/ Waggoner			
Project location	Districts 02, 03, 07, 61, & 62			Owner's Project Manager	Robert J. Lear, Jr., PE, LS	
Owner's address, phone, email	10305 Airline Highway, Baton Rouge, LA 70816 225.298-0800 rlear@sigmacg.com					
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost (\$1,000's)				N/A
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)				\$1,351

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

NTBA is performing GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements throughout South Louisiana. **Topographic surveying** includes **surveying** of all sub-surface drainage structures, 200 feet upstream and downstream with cross-sections every 50 feet along channels, deck gutter lines, centerline of joints, low chord elevations, bent locations, and **right-of-way** 800 feet either side of the structure. **Subsurface utility engineering services** include **QL C and QL D utility mapping**. NTBA produced electronic **topographic** drawings in MicroStation depicting all utility and **topographic** information. Data was provided to the engineering consultant for incorporation into their hydraulic model being utilized to evaluate the system.

Boundary surveying has been performed for 15 bridges with approximately 50 parcels. Services include surveying of each parcel affected by either construction servitude or additional right-of-way requirements as well as production of property survey submittal, preliminary and final right-of-way maps, and parcel descriptions. All services are being completed in accordance with the Location and Survey Manual Addendum A and all currently accepted Location and Survey Automated procedures.



STAFF TO BE USED IN THIS PROPOSAL: Mike King, Patrick Staiano, Bryan Bunch, Belton Davis, Amy Schulze, Captayn Chapman, Jeremy Reppond

17. Firm Experience:

Firm name	NTB Associates, Inc.		Discipline(s)	Survey
Project name	Rural Bridge Replacement Initiative Phase II		Firm responsibility (prime or sub?)	Sub
Project number	4400019337	Owner's name	LA DOTD (Burk-Kleinpeter, Inc.)	
Project location	Districts 05, 08, and 58		Owner's Project Manager	Nicholas Matherne (BKI)
Owner's address, phone, email	4176 Canal Street, New Orleans, LA 70119 (504) 486-5901 nmatherne@bkiusa.com			
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$1,935

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



NTBA is performing GPS Control surveys, **topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services** for 34 bridge and culvert replacements throughout Central Louisiana. **Topographic surveying** utilizing **HDS 3D Terrestrial Laser Scanning methods** includes surveying of all sub-surface drainage structures, 200 feet upstream and downstream with cross-sections every 50 feet along channels, deck gutter lines, centerline of joints, low chord elevations, bent locations, and right-of-way 800 feet either side of structure. **Subsurface utility engineering** services include **QL C and D utility mapping**. NTBA produced electronic topographic drawings in MicroStation depicting all utility and topographic information. Data was provided to the engineering consultant for incorporation into their hydraulic model being utilized to evaluate the system.

Boundary surveying has been performed for 73 parcels at 18 different bridge locations. This includes surveying each parcel affected by either construction servitude or additional right-of-way requirements as well as production of property survey submittal, preliminary and final right-of-way maps, and parcel descriptions. All services are being completed in accordance with the Location and Survey Manual Addendum 1 and all currently accepted Location and Survey Automated procedures.

STAFF TO BE USED IN THIS PROPOSAL: Bryan Bunch, Patrick Staiano, Mike King, Captayn Chapman, Belton Davis

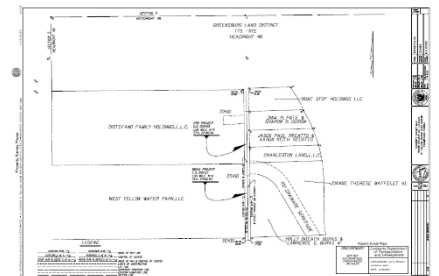
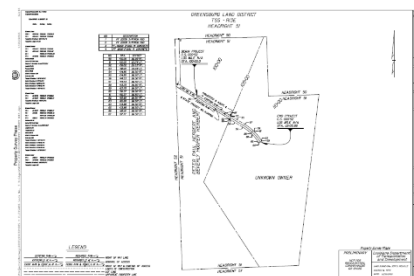
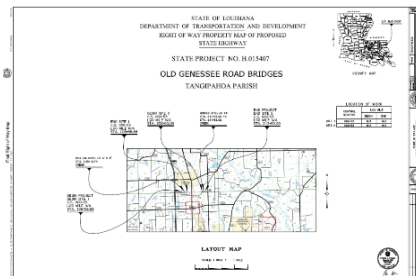
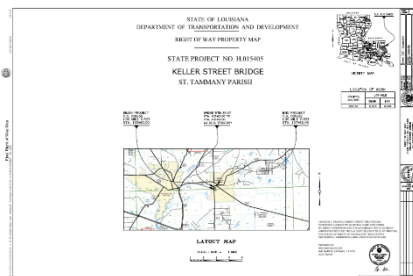
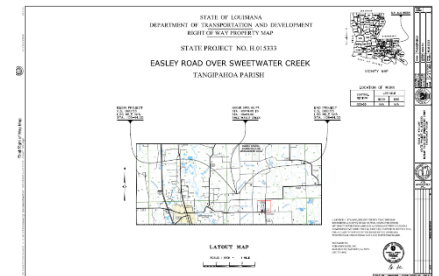
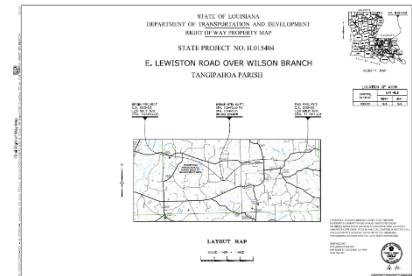
17. Firm Experience:

Firm name	NTB Associates, Inc.		Discipline(s)		Survey	
Project name	IIJA Off System Bridge Program			Firm responsibility (prime or sub?)		Sub
Project number	4400025041	Owner's name	LaDOTD Baton Rouge/ Waggoner			
Project location	Tangipahoa Parish, LA			Owner's Project Manager	Robert J. Lear, Jr., PE, LS	
Owner's address, phone, email	10305 Airline Highway, Baton Rouge, LA 70816 225.298.0800 rlear@sigmacg.com					
Services commenced by this firm (mm/yy)	07/23	Total consultant contract cost (\$1,000's)				N/A
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)				\$110

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

NTBA performed **topographic and property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping** for 6 Task Orders. **Title take-offs** for all affected properties along the project's alignment were obtained and reviewed along with any provided title research reports to determine the property line locations and prepare necessary files for survey crews to locate property corners and establish property lines. **Property Survey Maps** conforming to the requirements of the Location & Survey Manual Addendum A were prepared showing all surveyed property lines and existing **right-of-way** lines with ties to the project centerline/baseline. ASCII files listing coordinates and descriptions of all found monuments, pdf copies of all documents and title work used to determine property lines, and DGN and PDF of the **Property Survey Maps** were transmitted to the Waggoner for submittal and their use. **NTBA** produced electronic **property survey** drawings in MicroStation depicting all found boundary information. These projects were part of the Infrastructure Investment and Jobs Act (IIJA) and followed all local, state, and federal guidelines.

- Task Order No. 1 (H.015404): E. Lewiston Rd. over Wilson Branch
- Task Order No. 2 (H.015333): Easley Rd. over Sweetwater Creek
- Task Order No. 3 (H.015405): Keller Street Bridge
- Task Order No. 4 (H.015407): Old Genessee Rd. Creek
- Task Order No. 5 (H.015406): Lock No. 3 Bridge
- Task Order No. 6 (H.015403): W. Yellow Water Road Bridge.



STAFF TO BE USED IN THIS PROPOSAL: Bryan Bunch, Patrick Staiano, Mike King, Captayn Chapman

17. Firm Experience:

Firm name	GeoEngineers, Inc.		Discipline(s)	Geotech
Project name	Retainer Contract for Geotechnical Engineering Services, Statewide		Firm responsibility (prime or sub?)	Prime
Project number	700-99-0508	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, Louisiana		Owner's Project Manager	Kristy Smith, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 225.379.1387 Kristy.Smith@la.gov			
Services commenced by this firm (mm/yy)	1993	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		N/A

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

GeoEngineers has been awarded more than five (5) retainer contracts with the LA DOTD since 1993 which have involved their execution of geotechnical investigations for more than 200 bridges in Louisiana. Although each task order was different, the GeoEngineers team made sure to provide quality services that fulfilled LA DOTD expectations related to the scope, schedule, and budget. Some of the typical services provided under these contracts included:

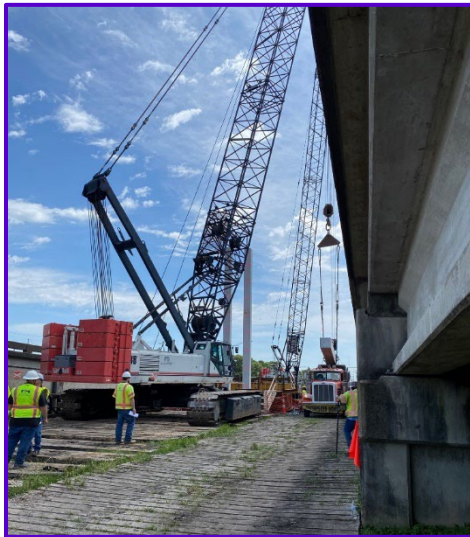
- Conducting subsurface investigations that included soil borings, cone penetration testing (CPT), test pits, groundwater measurements, and over-water drilling operations.
- Coordination of field exploration with utility clearances, traffic control, and site access
- Soil logging in accordance with ASTM, AASHTO, and LA DOTD standards
- Laboratory testing, including moisture content, Atterberg limits, consolidation, shear strength, compaction, and permeability
- Preparation of geotechnical data reports (GDRs), boring logs, and recommendations
- Performance of settlement analyses, embankment stability evaluations, and bearing capacity analyses
- Analysis of deep foundation systems, including driven piles and drilled shafts
- Monitoring of pile installation and evaluated pile capacity using Pile Driving Analyzer (PDA) testing and wave equation analyses
- Development of ground improvement recommendations including wick drains, surcharge loading, undercutting, and soil stabilization
- Management of multiple drill rigs and field crews
- Provision of construction monitoring services

STAFF TO BE USED IN THIS PROPOSAL: Larry Sant, James Aronstein, Brenda Novoa, Anthony (Chien-An) Ju, Kyle Kilfian

17. Firm Experience:

Firm name	GeoEngineers, Inc.		Discipline(s)	Geotech
Project name	Loyola Drive/I-10 Interchange to New Airport Terminal Design Build		Firm responsibility (prime or sub?)	Sub
Project number	H.011670	Owner's name	Louisiana Department of Transportation and Development	
Project location	Jefferson Parish, LA		Owner's Project Manager	Tim Nickel, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 225.379.1110 Timothy.Nickel@la.gov			
Services commenced by this firm (mm/yy)	01/19	Total consultant contract cost (\$1,000's)		~\$125,000
Services completed by this firm (mm/yy)	11/24	Cost of consultant services provided by this firm (\$1,000's)		\$1,100

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



GeoEngineers completed the geotechnical exploration, testing, and engineering for this high-profile design build project that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. The pre-existing I-10 interchange was a multi-level, controlled access interchange consisting of two overpass bridges. The LANOIA Airport had plans to build a new terminal and subsequently move the I-10 exit from Williams Boulevard to Loyola Drive. To do this, LA DOTD hired a design-build team to:

- Modify the existing ramps and construct a new multi-level interchange, including two one-way elevated flyovers and a diverging diamond on at-grade interchange Loyola Drive.
- Add auxiliary lanes along I-10, including over Duncan Canal.
- Construct noise barriers at various locations throughout the project corridor.
- Upgrade Loyola Drive north and south of I-10 and tie it into the LANOIA corridor Airport Access Road.
- Improve drainage and lighting, relocate utilities, and provide pier protection.

As part of the design build procurement process, GeoEngineers developed a preliminary subsurface conditions evaluation describing local geology, available geotechnical information, and plotted preliminary design standards to help refine the team's design approach. GeoEngineers worked with the contractor and design team to provide the geotechnical investigations, analyses, design, and construction (provided PDA/CAPWAP evaluation of the piles during installation). Geotechnical design services included the provision of foundation, embankment, pile, and pavement design recommendations.

STAFF TO BE USED IN THIS PROPOSAL: James Aronstein, Larry Sant, Kyle Kilfian

17. Firm Experience:

Firm name	GeoEngineers, Inc.		Discipline(s)		Geotech	
Project name	US90 @ LA318 Interchange Design-Build			Firm responsibility (prime or sub?)		Sub
Project number	S.P. H.004932	Owner's name	Louisiana Department of Transportation and Development			
Project location	St. Mary Parish, LA			Owner's Project Manager	Timothy Nickel, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 225.379.1110 Timothy.Nickel@la.gov					
Services commenced by this firm (mm/yy)	05/15	Total consultant contract cost (\$1,000's)				~ \$56,000
Services completed by this firm (mm/yy)	04/18	Cost of consultant services provided by this firm (\$1,000's)				\$734

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

The US90/LA318 Interchange project was in preparation for the conversion of US90 to future I-49 in St. Mary Parish and included construction of access ramps between US90 and LA318, realignment of the frontage road for local access parallel to US90, and elevating US90 over LA318. As part of the design-build team with Gilchrist Construction Company, GeoEngineers provided geotechnical engineering design services and construction recommendations. Our work included completing preliminary designs for compliance with AASHTO LRFD and LADOTD standards. GeoEngineers also provided geotechnical design to the bridge, road and contractor teams as needed throughout the duration of the design-build construction process and provided PDA/CAPWAP evaluation of the piles during installation.

Areas of geotechnical design included the following:

- Review of project geology and explorations previously completed.
- Providing explorations and laboratory testing for foundation, embankment, and pavement design.
- Engineering analysis and recommendations for driven pile foundations for highway overpass bridges and drainage culvert design.
- Engineering analysis and recommendations for wick drains and surcharge to reduce post-construction embankment settlement, including field monitoring.
- Field monitoring of pile dynamic testing including WEAP and PDA/CAPWAP analysis.



STAFF TO BE USED IN THIS PROPOSAL: Larry Sant, James Aronstein

17. Firm Experience:

Firm name	Urban Systems, Inc.		Discipline(s)		Traffic	
Project name	Bridge Preventative Maintenance District 61			Firm responsibility (prime or sub?)		Sub
Project number	H.000351	Owner's name	Louisiana Department of Transportation and Development			
Project location	Baton Rouge, LA			Owner's Project Manager	Danny Tullier, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 225.379.1355 Danny.Tullier@LA.GOV					
Services commenced by this firm (mm/yy)		11/12	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)		09/16	Cost of consultant services provided by this firm (\$1,000's)			\$70

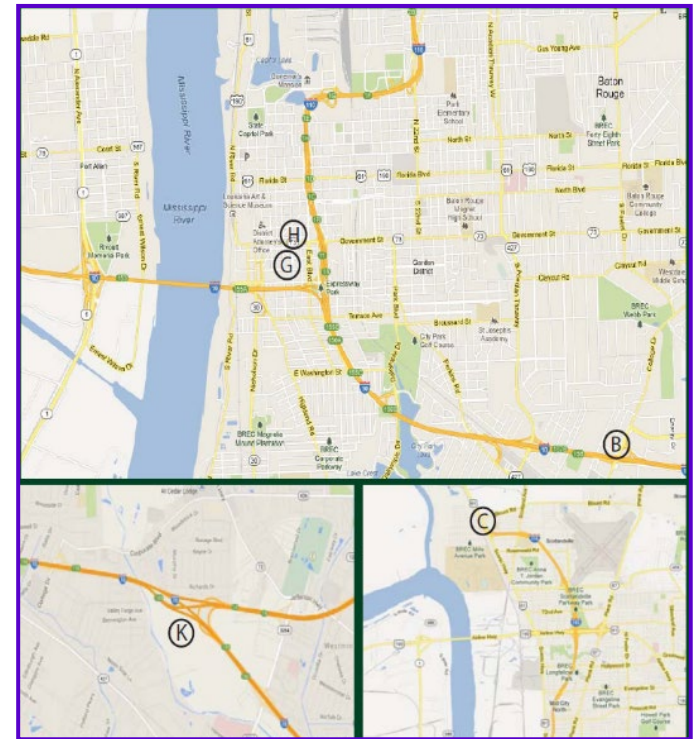
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

The objective was to conduct a Level 4 Transportation Management Plan (TMP) based on LADOTD EDSM VI.1.1.8 for bridge component repairs at five (5) locations on I-10, I-110 and I-12 in Baton Rouge, Louisiana. A TMP was critical for these locations as the interstates serve up to 85,000 vehicles per day and closing lanes and/or ramps would have a significant impact on mobility. An important strategy to minimize work zone impacts was an evacuation plan as I-10 and I-110 are critical arteries during a hurricane evacuation.

Seven-day hourly volume counts were collected and adjusted using LADOTD seasonal and axle factors. A queue analysis was conducted, as specified in LADOTD EDSM VI.1.1.4, to determine when the proposed lane closures could be implemented with the least impact with the high interstate volumes. A safety analysis was conducted based on the LADOTD's Guidelines for Crash Data Analysis, June 2014. Crash rates were calculated for each location and compared to LADOTD's statewide averages and to LADOTD's High Potential for Safety Improvements (formerly the Abnormally High Crash) List. Charts were developed at each location based on collisions by type, log mile and time.

A stakeholders meeting was held during the TMP process to obtain input and share information with:

- LADOTD Headquarters
- LADOTD District 61
- LADOTD TMC
- East Baton Rouge Sheriff's Office
- Louisiana State Police
- Baton Rouge Police Department
- Prime and sub consultants



STAFF TO BE USED IN THIS PROPOSAL: Alison Michel, Nicole Stewart

17. Firm Experience:

Firm name	Urban Systems, Inc.		Discipline(s)		Traffic
Project name	LA 67 (Plank Road) over US 61 (Airline Highway) Level 3 TMP			Firm responsibility (prime or sub?)	Sub
Project number	H.015424.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Baton Rouge, LA			Owner's Project Manager	Mark Elkassouf, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804 225.379.1327 Mark.Elkassouf@LA.GOV				
Services commenced by this firm (mm/yy)	07/23	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm (\$1,000's)			\$30

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

Urban Systems prepared a Level 3 Traffic Management Plan (TMP) to facilitate repairs on LA 67 (Plank Rd.) over US 61 (Airline Hwy) in East Baton Rouge Parish **with TRC under their Contract No. 4400024185, IDIQ Contract for Bridge Preservation with the LADOTD**. The TMP, designed in alignment with LADOTD EDSM No. VI.1.1.8, addresses potential challenges and strategies to mitigate traffic delays due to lane and roadway closures within the construction zone, as well as on primary detour routes. The scope of the TMP includes several key tasks:

Traffic Data Collection: Using LADOTD-provided 2018 AM and PM volumes, Urban Systems collected additional 7-day, 24-hour traffic counts, including vehicle classifications at critical points: Plank Rd NB at Airline Hwy NB onramp, Airline Hwy WB near Beechwood Dr, and Airline Hwy WB off-ramp west of Plank Rd NB exit. Peak turning movement counts (TMCs) were collected during AM, MIDDAY, and PM peak hours at the Plank Rd and Harding Blvd intersection. Deliverables included traffic volume printouts in 15-minute intervals, peak hour summary tables, and schematic diagrams showing count locations and data.

Existing Levels of Service Determination: Using Highway Capacity Manual (HCM) procedures, Urban Systems assessed existing Levels of Service (LOS) during peak hours at the Plank Rd and Harding Blvd intersection using HCS software. Deliverables included metrics such as Delay, 95% Queuing, and Volume/Capacity (V/C) ratios for each approach.

Safety Analysis: A safety assessment was conducted using three years of crash data to establish a Baseline Safety Performance review for Plank Rd within the project limits. Collision data were analyzed and compared to statewide averages, identifying potential mitigations to enhance construction zone safety.

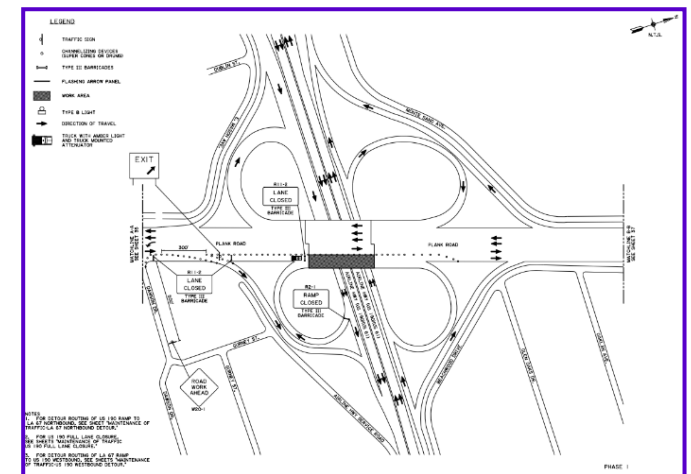
Alternate Route Analysis: Urban Systems evaluated detour routes based on collected traffic data, using HCS software to assess LOS at signalized intersections along the detour. Mitigations were proposed to address potential capacity and safety issues on detour routes.

Traffic Management Plan Document Preparation: A Draft Level 3 TMP document, including a Public Information Plan, was prepared and submitted to LADOTD in PDF format. The Public Information Plan outlined necessary steps for communicating road closure schedules and durations to the public.

Stakeholder Involvement: Key stakeholders were identified, and Urban Systems collaborated with them to minimize project impact on local businesses and the public. A stakeholder meeting was held at DOTD, during which the TMP and traffic control plans were presented. Minutes from the meeting were recorded and submitted for review.

Urban Systems' TMP for LA 67 over US 61 ensured a well-coordinated approach to managing traffic disruptions and enhancing safety for all road users within the project area.

STAFF TO BE USED IN THIS PROPOSAL: Alison Michel, Christine Darrah, Nicole Stewart, Matt Morgan



17. Firm Experience:

Firm name	Urban Systems, Inc.		Discipline(s)		Traffic	
Project name	TMP for I-10 West of LA 108 and I-210 Interchange				Firm responsibility (prime or sub?)	Sub
Project number	H.009620.5-1	Owner's name	Louisiana Department of Transportation and Development			
Project location	Calcasieu Parish, LA			Owner's Project Manager	Hadi Shirazi, P.E. (retired)	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804					
Services commenced by this firm (mm/yy)		05/18	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)		04/19	Cost of consultant services provided by this firm (\$1,000's)			\$70

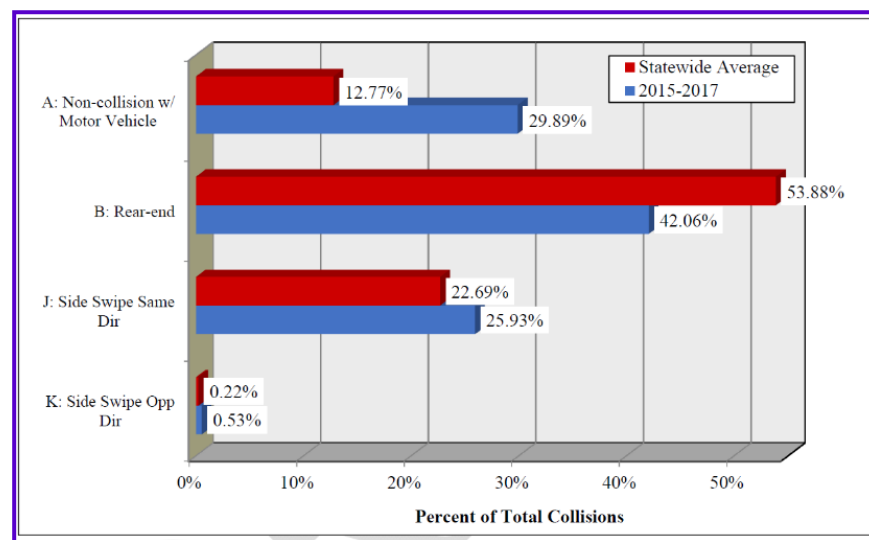
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

The objective of this project was to assist with conducting a Level 4 Transportation Management Plan (TMP) based on LADOTD EDSM VI.1.1.8 for rubblize and overlay work on the US 90 bridge over I-10 in Calcasieu Parish, Louisiana. The objective of the TMP was to identify the challenges and to address strategies to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits and primary detour roadways on I-10 and I-210 within the Lake Charles Metropolitan Area. This TMP was also updated for the I-210 Prien Lake Bridge Re-Decking and Safety Improvement Project (H.010916.5) dated January 2016.

Traffic data was reviewed within the study area and a field visit was conducted to verify information on roadway geometrics and traffic conditions. A traffic data was report was developed and submitted for inclusion in the TMP document.

A safety analysis was conducted based on LADOTD guidelines. Crash rates were calculated for each location and compared to LADOTD's statewide averages and to LADOTD's High Potential for Safety Improvements (formerly the Abnormally High Crash) List. Charts were developed at each location and compared to statewide averages based on various categories. Crash diagrams were also developed to document the number, location and type of crashes. Each crash report was reviewed for accuracy.

An alternative route analysis was conducted for an assessment of the proposed detour routes. The analysis also included a safety and mobility plan to gather and address concerns for the detour routes.



STAFF TO BE USED IN THIS PROPOSAL: Nicole Stewart, Matthew Morgan, Christine Darrah

17. Firm Experience:

Firm name	Franklin Associates, LLC		Discipline(s)	Other (Public Outreach and Relations support)
Project name	I-10 Widening (LA 415 to Essen Lane on I-10 and I-12) Stages 0, 1, and CMAR		Firm responsibility (prime or sub?)	
Project number	H.004100.2	Owner's name		
Project location	East Baton Rouge and West Baton Rouge Parishes		Owner's Project Manager	Nicholas Olivier, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 225.379.1133 nicholas.olivier@la.gov			
Services commenced by this firm (mm/yy)	10/11	Total consultant contract cost (\$1,000's)	N/A	
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)	\$1,249	

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

In 2011, LADOTD initiated efforts to determine whether widening Interstate 10 in Baton Rouge was a feasible approach to mitigating some of the region's traffic issues. The project passes through a constrained urban area with no alternate interstate bypass route available. As the public engagement lead, Franklin began an outreach campaign targeting area residents and businesses, as well as commuters and out-of-state travelers. Over 12K responses were received through an online survey. Franklin's team continues to spearhead all public and stakeholder engagement planning, delivery, and documentation for the widening of I-10 through Baton Rouge through several phases: Stage 0 Feasibility, Stage 1 Environmental Assessment, and the current design/build stage.

Throughout these planning and implementation efforts, Franklin's team has developed and deployed comprehensive public engagement efforts as the project underwent a feasibility study underwent an environmental assessment study, received a finding of no significant impact from the Federal Highway Administration in February 2021 at the end of the environmental process, and is now in its design/build stages for various segments within the inner Baton Rouge corridor of the interstate. As the engagement lead, Franklin assisted in the design and deployment of public input surveys including map-based polling; developed and implemented use of in-person and digital input mechanisms; and coordinated data trending and logistics for all engagement activities during the planning, environmental, and design phases. Franklin has deployed multiple and diverse surveys, dozens of stakeholder briefings, focus group meetings, public meetings, and public hearings that complied with state and federal requirements.



STAFF TO BE USED IN THIS PROPOSAL: James Taylor

17. Firm Experience:

Firm name	Franklin Associates, LLC		Discipline(s)	Other (Public Outreach and Relations support)	
Project name	I-10 Washington St. EB Exit Ramp Closure			Firm responsibility (prime or sub?)	Sub
Project number	H.016075.2	Owner's name	Louisiana Department of Transportation and Development		
Project location	East Baton Rouge Parish		Owner's Project Manager	Ryan Morvant, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 225.379.1067 ryan.morvant@la.gov				
Services commenced by this firm (mm/yy)	01/25	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)	04/25	Cost of consultant services provided by this firm (\$1,000's)			\$55

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

In response to a letter from a State elected official, the Louisiana Department of Transportation and Development (LADOTD) was charged with expediting a permanent closure of the I-10 eastbound exit to Washington Street (since renamed Lorri Burgess Avenue.) The task required notification of the adjacent community served by this exit, and public outreach was awarded to Franklin through an IDIQ contract held by Stantec. Following identification of an environmental justice stakeholder list and affected residential area, the initial scope to produce community meetings was revised by the client to instead conduct outreach via mailed notices and community canvassing referencing an online opinion and comment survey.

Franklin defined an EJ community area based on demographic characteristics and proximity to the exit ramp. A mailing list was generated from Property Assessor's parcel data, and a postcard flyer was mailed to all addresses. As a follow-up, teams conducted door-to-door canvassing throughout the defined area, hand delivering flyers and offering project information to building occupants. In addition to the flyers, staff teams carried an exhibit board explaining the ramp closure project and offering QR code links to participate in the online opinion poll. Hardcopy survey instruments were also available when requested. The short poll inquired whether the public was in favor of or opposed to the ramp closure, and how frequently they used the exit.

In addition to the community canvassing, informational kiosks were set up in the local branch library and community center where residents could visit and learn more information about the project. A total of 106 total responses were received. A majority of community residents who frequently used the exit indicated opposition to closure while those who less frequently used the ramp and/or lived outside of the EJ area favored closure.

In conclusion, LADOTD determined that the traffic congestion on eastbound I-10 due to the presence of the exit at the juncture with southbound I-110 warranted the permanent closure of this exit. Further, plans for the in-progress replacement of this segment of interstate highway through Baton Rouge fully eliminated this exit to Lorri Burgess Ave., instead offering the I-110 exit to Terrace Ave. and an exit to Dalrymple Dr., each road at opposite sides of the EJ area.



STAFF TO BE USED IN THIS PROPOSAL: James Taylor

17. Firm Experience:

Firm name	Franklin Associates, LLC	Discipline(s)	Other (Public Outreach and Relations support)	
Project name	I-10 Calcasieu River Bridge Replacement Project		Firm responsibility (prime or sub?)	
Project number	H.003931	Owner's name	Louisiana Department of Transportation and Development	
Project location	Calcasieu Parish, LA		Owner's Project Manager	Paul Vaught, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 225.379.1816 Paul.Vaught@LA.gov			
Services commenced by this firm (mm/yy)	06/23	Total consultant contract cost (\$1,000's)		\$2,300,000
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		\$620

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

Franklin serves as the Public Information Manager for the I-10 Calcasieu River Bridge Replacement P3 project, which will replace an aging bridge along I-10 in Calcasieu Parish, addressing congestion issues and bridge deficiencies in the process. Under the P3 contract, the existing bridge will be replaced and I-10 widened to six lanes, with three lanes in each direction. Franklin leads all communications efforts related to the project, including but not limited to

- Working with local stakeholders to assure deployment of workforce development plans.
- Developing and coordinating all public engagement during the project's design phase.
- Managing construction notifications throughout the seven-year build period.
- Managing emergency notification processes during construction using a combination of communications modes (website, social media, doorhangers, advertising, email notifications).
- Developing and deploying a tolling education campaign during the project launch phase.



Franklin develops and communicates talking points about the project benefits and keeps people informed about public involvement opportunities and construction notifications. Franklin also manages all information requests; coordinates with receiving and responding to public inquiries; provides updates to the LADOTD regarding project status, traffic impacts, and other information for communication to key stakeholder groups and the public; and presents information to the public, essential Calcasieu Parish staff, elected officials, community stakeholders, and other parties, as necessary. Franklin developed a 10-year outreach and communications plan that currently includes website updates and tracking, newsletter production for a growing subscriber list, and social media accounts on Facebook and Instagram. Franklin has facilitated three public meetings as of November 2025 and delivers numerous presentations to community stakeholders. Part of Franklin's event management for the project groundbreaking was execution of a targeted media strategy that generated more than \$570,000 in earned media coverage for this milestone.

Project Website: Franklin developed the website, I-10 Calcasieu Bridge (<https://www.i10calcasieubridge.com>) and is responsible for its maintenance throughout the bridge project's design and build phases. The website serves as a hub of information where residents can find project updates, schedules, FAQs, photos, videos, and downloadable information as well as a project information portal for the public, providing real-time design and construction updates. Once the bridge is operational, the intent is that the website will be linked to LADOTD's web portal and accessible through www.geauxpass.com, the website for all Louisiana toll roads.

Tolling Education: Franklin will design and implement an education campaign as part of the outreach process, which will include creating and scheduling informational presentations; facilitating small group meetings; creating print and digital materials to make the public aware of the process; and providing guidance on how to set up a GeauxPass tolling account, pay invoices, contact customer service, and other tolling-related issues.

Groundbreaking Facilitation: Franklin Associates spearheaded the comprehensive event management and multi-agency coordination for the project's groundbreaking. Their team directed all onsite logistics, audio-visual production, and complex ceremonial protocols while seamlessly aligning participation across the Governor's office, LA DOTD, federal agencies, local municipalities, stakeholders, and media.

STAFF TO BE USED IN THIS PROPOSAL: Angela Noote

18. Approach and Methodology:

PROJECT UNDERSTANDING

TRC understands that DOTD Bridge Maintenance (Section 51) is specifically designed to inspect, maintain, and extend the useful life of the State's bridges in a safe, cost-effective, and sustainable manner. Through proactive inspection, maintenance, repair, and targeted rehabilitation, the DOTD seeks to delay deterioration, mitigate safety risks, and preserve structural integrity while optimizing the investment of public funds.

Under the DOTD's Transportation Asset Management Plan, the DOTD is using Life Cycle Planning (LCP), which is "timely investments in an asset, via the best sequence of maintenance, preservation, and rehabilitation treatments, resulting in an improved overall condition, a longer life span, and lower long-term costs."

The purpose of a Bridge Preventive Maintenance Plan is to help each District extend the life of their bridges by performing focused maintenance and key repair activities that have been pre-approved by the DOTD and/or FHWA. The goals of these District specific plans are to:

- Maintain existing inventory of bridges in a structurally safe and serviceable condition
- Correct minor structural deficiencies early in a bridge's life, rather than wait until a bridge has major problems requiring costly rehabilitation, reconstruction or replacement
- Extend the service lives of existing bridges
- Make efficient use of limited resources

The first order of work in a District's plan is determining bridge prioritization through examining the inspection reports, prior maintenance/repairs, and existing postings. The highest priority bridges should include the repair of scour countermeasures, embankment erosion control and the repair, restoration, and strengthening of structural elements. The last order of work is to prepare construction plans and other remaining documents in preparation for submittal to DOTD for review and approval.

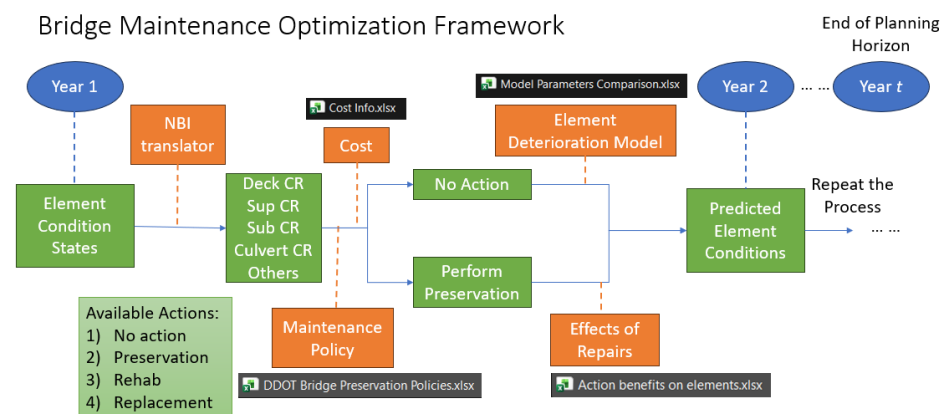
STRUCTURE ASSET MANAGEMENT PLAN DEVELOPMENT

The TRC Team (TRC) will conduct a comprehensive evaluation of the DOTD's bridge inventory by reviewing existing inspection (NBI and NBE) data, historical documentation, maintenance records, and prior capital improvement plans for each structure. Following this review, our team will facilitate workshops with all districts and the Bridge Maintenance Section to gather insight into their needs and current practices. Armed with information from these reviews and engagements, we will develop decision trees and analytical approaches to identify appropriate treatments for all bridges in the inventory. TRC will access the BMS database through Inspect-X, as

well as other locations within DOTD, to obtain condition data, load ratings, maintenance histories, and related project records necessary for the analysis.

Based on this evaluation, we will develop structure-specific recommendations that may include maintenance, preservation, rehabilitation, or replacement treatments designed to optimize bridge condition, performance, and lifecycle costs over a 30-year planning horizon, with the ability to extend the planning horizon if desired by DOTD. The figure below shows a framework developed by our team member WSP USA for the District Department of Transportation (Washington DC) to create bridge-level management plans that optimize budget and performance. A similar framework will be developed for the DOTD through this contract opportunity.

Bridge Maintenance Optimization Framework



To verify the outcome, targeted field inspections will be conducted, as needed, for bridges that fall near treatment thresholds to validate existing information and confirm the most appropriate treatment strategy. TRC will also account for regional differences in deterioration, including accelerated coastal deterioration associated with salt exposure and hurricane impacts, to refine treatment timing and investment strategies.

The effort will culminate in a draft report presenting prioritized treatment recommendations at both the statewide and district levels, including planning-level cost estimates, assumptions, contingencies, and anticipated project development schedules for Preliminary Engineering, Final Design, Right of Way, Utilities, and Construction phases. TRC will then facilitate a workshop with representatives from all nine Districts and DOTD Maintenance bridge staff to review findings, gather feedback, and refine the final recommendations.

Draft Schedule

1. Review of existing data (3 months)
2. Create decision trees (1 month)

3. Kick-off meeting with all 9 districts and a follow-up with each individual District to gather current programming practices (Scope of work for each future project, cost estimating, prioritization). **(2 months)**
4. Run data against the decision trees to develop best practices for each District **(1 month)**
5. Develop draft report **(2 months)**
6. Hold Workshop- preferably in 9 districts **(2 months)**
7. Update draft report based on Workshops – **(1 month)**

TOTAL TIME: 12 Months

Following plan acceptance, TRC will transition to reducing a District's backlog of bridge maintenance needs by developing repair plans, standard plans, and documents for the retained general contractors to immediately begin repairs. As needed by the DOTD, TRC will perform any required construction-related engineering services during construction of the bridges. Additionally, TRC understands the importance of historic bridge preservation and complying with environmental and historical requirements. We expect an intense workload of four concurrent task orders and have assembled a robust team with the needed depth to complete multiple tasks and coordinate with multiple Districts concurrently.

Preventive maintenance is a more proactive, planned approach to maintaining bridges. Maintenance is done to preserve (not simply repair) entire bridges and their components, prevent future deterioration, and sustain or improve their condition. It is cost effective for extending the useful life of bridges through washing and cleaning, sealing deck joints, clearing drainage areas, sealing cracks, spot painting steel members, and protecting against scour.

Shifting from reactive maintenance to proactive maintenance is a wise and critical decision for the District and DOTD to succeed with its constrained transportation budgets. While most changes are difficult, many state DOTs and municipalities have successfully moved to a Preventative Maintenance Plan. Systematically reallocating budget dollars and resetting priorities over time is the best way to get started. The TRC team is here to make each District a success through cost savings, increased lifespan of bridges, and improved safety for the public.

The Bridge Preventive Maintenance Plan resulting from our efforts will address a wide variety of bridge types ranging from CONBOX to LWPCSS to STVERT. Additionally, the Plan will also focus on reducing the number of postings for each District.

TECHNICAL APPROACH

Having successfully completed multiple bridge projects under previous DOTD Bridge Preservation and Preventative Maintenance Retainer contracts, along with having developed Bridge Asset Management Plans for several DOTs, the TRC team has the

experience to successfully develop the District's Asset Management Plans and perform bridge maintenance projects as outlined in Attachment A of the advertisement. Our subconsultant team members were selected based on our previous working relationships as a team on DOTD projects, their successful DOTD transportation projects, and their availability and depth of staffing resources to support a contract of this nature. We included WSP USA as a team member to not only supplement the Plan development and bridge assessments but to draw on their proven record with developing and implementing the Structure Asset Management Plans for other transportation agencies which can bring new insights, innovative solutions, and efficiencies to the DOTD.

Task Orders will include these expected activities:

1. Structure Asset Management Plan Development
2. Structure Preservation Project Development
3. Post-Design Construction Support Services
4. Contract Management

Using the information developed and approved by the DOTD as part of the Structure Asset Management Plan task, our team will develop complete preconstruction packages for the structure maintenance projects. These comprehensive packages will progress through final design as authorized under individual Task Orders. This may include developing plans for contractors performing work under the current construction and maintenance IDIQ work orders. Support services may include, but not be limited to:

- Survey and subsurface investigations which will be performed by NTB & Associates.
- Utility coordination and deconfliction which will be performed by NTB & Associates.
- Environmental permitting which will be performed by TRC Engineers.
- Geotechnical engineering and testing which will be performed by GeoEngineers.
- Roadway design, if needed, which will be performed by TRC.
- Maintenance of traffic (MOT), staging, and Traffic Management Plans which will be performed by TRC and Urban Systems.
- Preparation of specifications and estimates which will be performed by TRC.
- Development of public outreach and stakeholder strategies which will be performed by Franklin & Associates.
- Load ratings, as needed, which will be performed by TRC.

TRC will provide support to the DOTD during construction, which may include responding to requests for information (RFIs), reviewing submittals for conformance with the design intent, providing design clarifications, and evaluating proposed changes.

TRC will be the Prime Consultant and Project Manager for this contract to maintain internal coordination, documentation, and assurance of compliance with all administrative

contract procedures. TRC will serve as the primary point of contact and be responsible for overall management of the contract and all Task Orders. This will include monthly progress reports for active Task Orders, including status, schedule, budget, and key issues, as well as the preparation and submittal of timely monthly invoices.

LOAD TESTING

When traditional analytical efforts are exhausted to avoid load posting of the bridge, the TRC team will provide a range of alternative techniques, including:

- Refined analysis to better estimate live load demand using pre-approved FEA software packages (Midas Civil, CSI Bridge, LARSA 4D, STADD).
- Material testing to determine their condition and strength.
- Nondestructive testing to provide additional information, e.g., rebar size and location.
- Load testing to accurately determine live load distribution or better understand boundary conditions.
- Rehabilitation work to enhance the bridge's capacity.

Diagnostic Load testing results coupled with refined analysis can be employed to better understand the behavior of the bridge. Comparing the measured response to the predicted response, an adjustment factor is calculated in accordance with AASHTO Manual for Bridge Evaluation (MBE) and NCHRP Research Results Digest No. 234. The adjustment factor results in improved load rating factors.



Instrumentation used for load testing shall consist of a combination of strain transducers and displacement sensors. Data produced by sensors are captured using a two-part data acquisition system. The system consists of battery powered nodes wired to the strain/displacement sensor. The nodes then communicate with a battery powered nodes base station that utilizes a wireless access point to transmit to an on-site computer where data is recorded.

PROJECT EXECUTION AND MANAGEMENT

TRC's project management approach will be critical to successfully execute and complete the maintenance plans and repair designs. We understand the workload will be intense in order to get bridges under construction and bring bridges in poor condition to fair or good condition as quickly as possible.

Our dedicated Project Manager and primary point of contact is Durk Krone, PE who has served as Project Manager on multiple DOTD projects, including bridge preventative maintenance, rehabilitation, complex bridge designs and multidiscipline projects. He will oversee and facilitate project scoping, contract execution, development and delivery of the work.

PROJECT SCOPING & KICKOFF

Following NTP, TRC will lead a kickoff meeting with the DOTD's Project Manager, District personnel, and key team staff to confirm project objectives, design criteria, coordination needs, and deliverable schedules. This meeting will establish communication protocols, determine the frequency of coordination meetings, and address questions arising from document reviews. TRC will develop a Project Work Plan incorporating design criteria, the pre-approved QA/QC plan, and input from stakeholders. These steps ensure the project scope, schedule, and deliverables are aligned, efficient, and sensitive to cost, construction time, and public impact.

STRUCTURE PRESERVATION PROJECT DEVELOPMENT

This unique project requires several disciplines to gather the required information that may include topographic survey, geotechnical exploration, traffic analysis, and bridge design. Once the required data is collected, TRC will work closely with the District and Bridge Maintenance staff to prepare the design/repair plans. TRC has successfully led the completion of several repair and rehabilitation projects from the complex truss and movable to simple beam/slab bridges. TRC and its team members are also well-versed with implementing non-traditional approaches to evaluate and develop the most economical repair solutions while adhering to best practices and constructability constraints. It is through this approach that we can provide cost-effective solutions to each bridge, including the preservation of a structure's historical significance and character where applicable.

TRC will develop detailed bridge construction plans for the repairs of the deck, superstructure, and/or substructure as needed for each type of bridge, along with a suggested sequence of construction repair plan in accordance with the BDEM which typically consists of preliminary and final design stages and will deliver the final PS&E documents. Depending on environmental and agency requirements, TRC will identify opportunities to expedite the project schedule. Based on experience, it is expected that several milestone submittals can be omitted to expedite project delivery and save time and resources.

Supplemental tasks that will be completed as needed for assigned task orders included the following:

Load Rating: The TRC team has extensive load rating experience with the DOTD and will perform the load ratings in conformance with the BDEM, MBE, AASHTO and DOTD standard practices. We use AASHTOWare BrR as the primary rating software and, when needed, approved alternative analysis software and methods to reduce the posting.

Surveying, SUE, ROW Services: NTB & Associates will provide surveying, scanning, SUE, and ROW services. Their proven performance with TRC on past DOTD projects is extensive.

Roadway Design Services: TRC will use local staff for any roadway design services that are required to facilitate bridge repair and maintenance work.

Traffic Engineering and MOT Services: TRC has teamed with Urban Systems to conduct traffic engineering services. TRC staff will develop the Maintenance of Traffic (MOT) plans as required. Urban Systems will develop a Transportation Management Plans (TMP) that will be in accordance with DOTD EDSM VI.1.1.8, if required. They have qualified staff that conducts other traffic services as required by the DOTD which include data collection, traffic analysis, and safety and accident studies.

Environmental Permitting Services: TRC will use local staff for any environmental or permitting services. These staff members possess in-depth knowledge of the NEPA process and obtaining the types of permits required from such agencies as the US Army Corps of Engineers, DEQ, DWF, US Coast Guard, and various Levee Boards. Such documents may include Coastal Use Permits, Wetland Permits, Scenic Stream Permits, Levee Permits, and Bridge Permits. While Archaeological and Historic Bridge Obligations are not expected, TRC has local staff to conduct cultural and historic surveys for bridge preservation projects in compliance with Section 106 of the National Historic Preservation Act and Louisiana Division of Archaeology and Historic Preservation guidelines, as needed. Team members have completed the

DOTD's "Maintenance and Rehabilitation of Historic Bridges" training and are familiar with procedures outlined in the Programmatic Agreement Regarding Management of Historic Bridges in Louisiana.

Public Outreach: Should the need arise to conduct public outreach and stakeholder meetings we will assign that lead role to Franklin & Associates.

Construction Services: Key members of the TRC team will attend the preconstruction meeting as well as complete all required construction-related engineering services including: pre-bid and on-call support; shop drawing review; responses to RFIs; change order approvals; shop drawing reviews; erection and installation procedures; factory testing of completed electrical control and hydraulic circuits; and commissioning and start-up to include initial testing of individual components/systems (mechanical, hydraulic and electrical).

SCHEDULE

Below is a draft schedule where we envision that once we complete the Structures Asset Management Plan, and provided the funding is in place, the TRC team can execute task orders for the needed Bridge Maintenance repairs, Bridge Preservation Plans, Bridge Rehabilitation Plans and Bridge Replacement Plans.

Task / Deliverable	Months												
	1	2	3	4	5	6	7 to 12	13 to 18	19 to 24	25 to 30	31 to 36	37 to 42	43 to 48
NTP/Kickoff Meeting													
Contract Management													
Task Order No. 1													
Structure Asset Management Plan Development													
Task Order No. 2													
Bridge Maintenance Repair Plans and Construction Services													
Task Order No. 3													
Bridge Preservation Plans and Construction Services													
Task Order No. 4													
Bridge Rehabilitation Plans and Construction Services													
Task Order No. 5													
Bridge Replacement Plans and Construction Services													

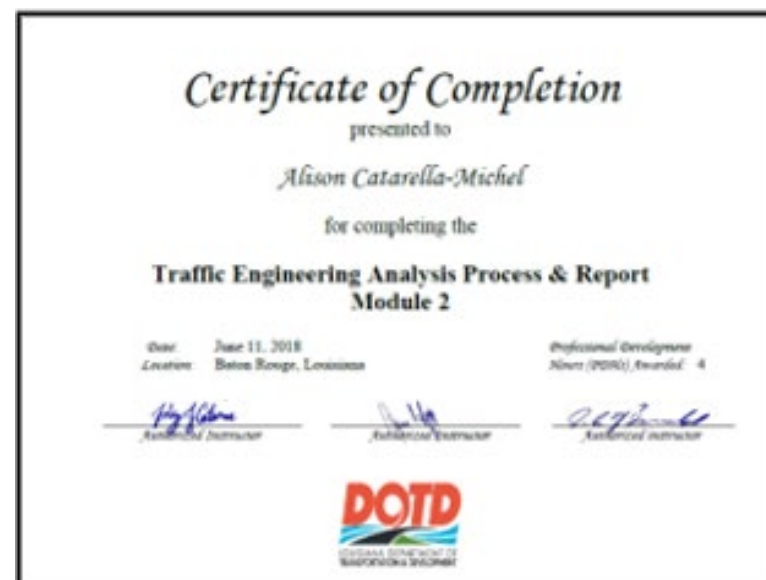
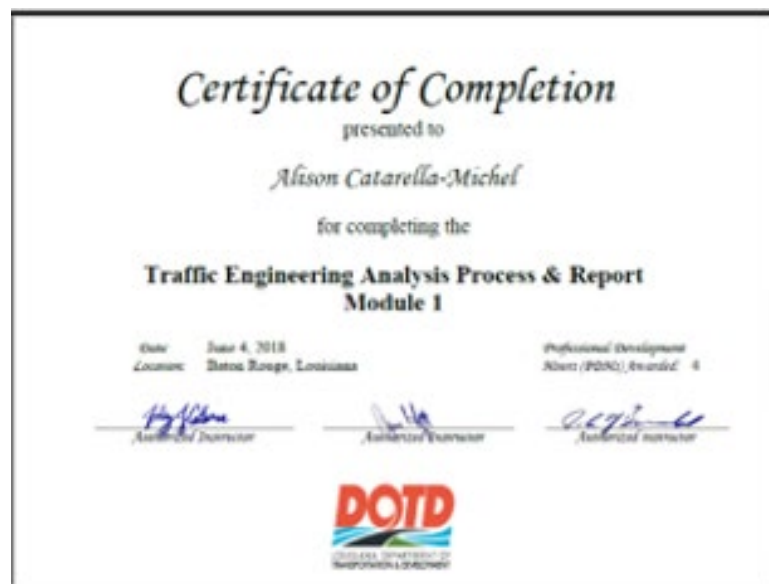
19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
TRC Engineers, Inc. 	Bridge	44-24185 / H.016046.5	US 190: Atchafalaya River @ K'Springs Repairs	\$150
	Bridge	44-21128 / H.014258.6	LA 1 Construction Services	\$396,922
	Bridge	44-17033 / H.005121	LA 1 / LA 415 Connector	\$3,172,684
	Road	44-17033 / H.005121	LA 1 / LA 415 Connector	\$957,684
	Other (Project Management)	44-17033 / H.005121	LA 1 / LA 415 Connector	\$850,603
	Bridge	44-27652 / H.009859.5 (H.009859.5)	Bridge load rating services	\$1,584,315
	Bridge	44-21515 / H.010004.5	Contract 3 for Movable Bridges – Olivier	\$137,376
	Bridge	44-21515 / H.011974.5	Contract 3 for Movable Bridges – Dulac	\$73,548
	Bridge	44-21515 / H.011991.5	Contract 3 for Movable Bridges – Daspit	\$150,579
	Bridge	44-21515 / H.012738.5	Contract 3 for Movable Bridges – Morbihan	\$204,937
	Bridge	44-21515 / H.014191.5	Contract 3 for Movable Bridges – Nelson	\$209,350
WSP USA Inc. 	Bridge	44-17069; H.012003, H.011995, H.010007, H.012568, H.012000	Contract for Movable Bridge Contract 2	\$13,388
	Environmental	44-27470; H.003931	LWI Region 3 Design Storm Modeling and Consequence Assessment, Calcasieu River Bridge	\$1,190,813
	Bridge	46-097.2794; H.008069.5	Peters Road Bridge & Extension Toll Study - Phase 3	\$ 87,764
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)	\$48,739
	Survey	4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$28,531
	Survey	4400025041 H.015403	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program - W. Yellow Water Road Bridge, Tangipahoa Parish (Sub to Waggoner)	\$1,055
	Survey	4400027686 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 8 – Summer Bridges	\$22,318

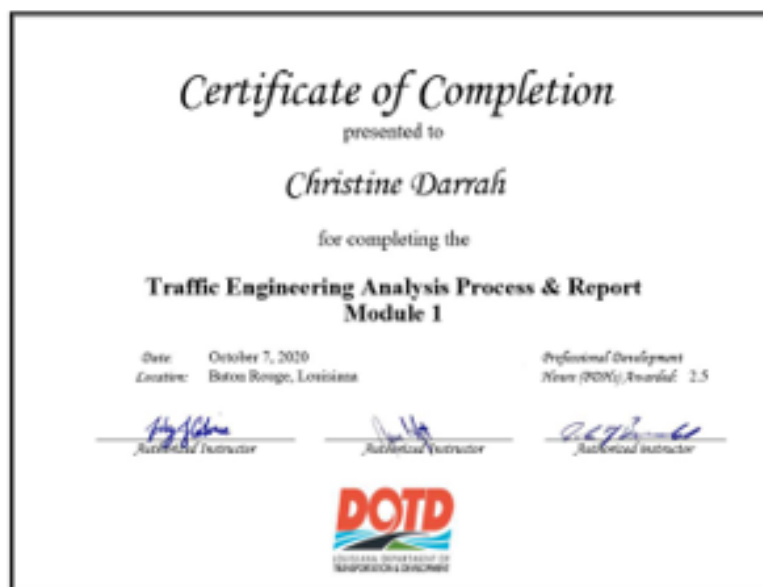
Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
	Other (SUE)	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	N/A
	Survey	4400027918 H.012869.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 3 – LA 182 (Univ) @ LA 723 (Renaud) Roundabout, Lafayette Parish	\$27,332
	Survey	4400027918 H.011310	IDIQ Contract for Professional Boundary Surveying Services – Task Order 4 – Ford Street Extension, District 61	\$8,603
	Survey	4400027918 H.015721	IDIQ Contract for Professional Boundary Surveying Services – Task Order 5 – LA 30 Roundabout, Ascension Parish	\$23,592
	Survey	4400027918 H.015568	IDIQ Contract for Professional Boundary Surveying Services – Task Order 6 – LA 44 Pelican Point Roundabout & Widening, Ascension Parish	\$44,108
	Survey	4400027918 H.014059	IDIQ Contract for Professional Boundary Surveying Services – Task Order 7 – US 80: Bridges Near Minden, Webster Parish	\$10,024
	Survey	4400027918 H.014059	IDIQ Contract for Professional Boundary Surveying Services – Task Order 8 – US 80: Bridges Near Minden, Addt'l Site, Webster Parish	\$842
	Survey	4400027918 H.011970.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 9 – LA 182: Bayou Terrebonne Bridges, Terrebonne Parish,	\$30,452
	Survey	4400027918 H.016325.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 10 – LA 358: Creek Bridge, St. Landry & Acadia Parishes	\$13,467
	Survey	4400027918 H.010795.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 11 – LA 42: Roundabout @ Joe Sevario Road, Ascension Parish	\$27,774
	Other (SUE)/ Survey	4400030630 H.015724.5	Kings Hwy: Healthcare & Dev. Corridor, Caddo Parish (Sub to AFJ&M, City of Shreveport, & Forte & Tablada)	\$193,085
	Other (SUE)	Parish Proj. No. 2025- 118 H.003855	Cong Relief Winfield Road, Bossier Parish (Sub to Volkert)	\$3,566
	Survey	4400031331 H.015477.5	Shreveport Pavement Program- Task Order No. 2 – LA 1 Caddo Lake Bridge, Caddo Parish	\$27,752

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
GeoEngineers, Inc. 	Geotech	H.003931	P3 I-10 Calcasieu River Bridge Geotechnical	\$ 2,264,579
	Geotech	440022852; H.012011, H.012029, H.012036, H.012037	8 Bridge Replacements/Geotechnical Engineering Services	\$ 719,120
	Geotech	H.016255.5	LA-1 Railroad Overpass	\$ 847,248
	Geotech	H.01649.6	LADOTD - OV for 20 Bridge Reviews	\$ 116,256
Urban Systems Associates URBAN SYSTEMS Inc. 	Traffic	No. H011221.5, H.011222.5; No.4400022581	I-10: N.O. CBD3 (Poydras- Louisa) & I-10:N.O CBD4 (Louisa – I-510)	\$30,724
	Traffic	No.4400024185, No.H.016046.5	US 190: Atchafalaya R @ K'Sprngs Repairs	\$7,616
	Traffic	No.4400026585, No. H.006226.5	Pointe-a-La-Hache Ferry Landing Replacement	\$5,000
Franklin Associates, LLC 	Planning; Other (Public Outreach and Relations)	H.003915	I-49 Inner City Connector, Stage 1 Environmental Assessment Project (Prime: Providence Engineering)	\$6,649
	Other (Public Outreach and Relations support)	H.004100.5	I-10 CMAR RCP Plans – Segment 1 (Prime: Providence Engineering/HUVAL)	\$61,124
	Planning; Other (Public Outreach and Relations)	H.013284	MRB South GBR: LA 1 to LA 30: NEPA EA (Prime: Atlas)	\$41,633
	Other (Public Outreach and Relations support)	H.004791	Belle Chasse Bridge Replacement Project (Prime: Plenary)	\$34,410
	Other (Public Outreach and Relations support)	H.003931	I-10 Calcasieu River Bridge Replacement Project (Prime: Calcasieu Bridge Partners)	\$84,297
	Other (Public Outreach and Relations support)	H.005121	Sugarhouse Road Environmental Assessment (Prime: Providence)	\$4,665

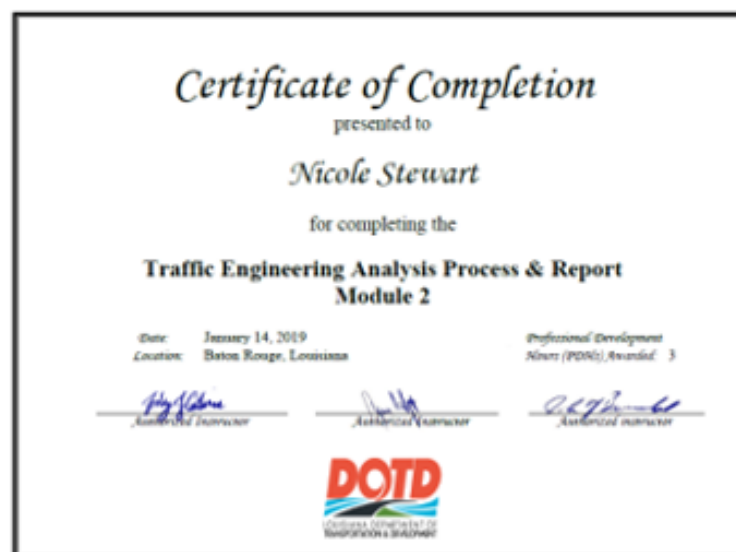
20. Certifications/Licenses:



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Name	Type	City	Status
TRC ENGINEERS, INC.	Business Corporation (Non-Louisiana)	LYNDHURST	Active

Previous Names

Business: TRC ENGINEERS, INC.
Charter Number: 35865842F
Registration Date: 1/27/2005

Domicile Address

1099 WALL STREET WEST
SUITE 250B
LYNDHURST, NJ 07071

Mailing Address

21 GRIFFIN ROAD NORTH
WINDSOR, CT 06095

Principal Business Office

1407 BROADWAY
STE. 3301
NEW YORK, NY 10018

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

4545 SHERWOOD COMMON BLVD.
BUILDING 3, SUITE A
BATON ROUGE, LA 70816

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20. Certifications/Licenses:

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

Previous Names

PARSONS BRINCKERHOFF, INC. (Changed: 5/2/2017)

PB AMERICAS, INC. (Changed: 11/3/2011)

PARSONS, BRINCKERHOFF, QUADE & DOUGLAS, INC. (Changed: 12/14/2006)

Business: WSP USA INC.

Charter Number: 29600510F

Registration Date: 10/1/1971

Domicile Address

ONE PENN PLAZA 4TH FLOOR
NEW YORK, NY 10119

Mailing Address

4139 OREGON PIKE
EPHRATA, PA 17522

Principal Business Office

ONE PENN PLAZA 4TH FLOOR
NEW YORK, NY 10119

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

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20. Certifications/Licenses:



The screenshot shows a web browser window displaying the Louisiana Secretary of State's website. The page features a header with the Secretary's name, Nancy Landry, and the state seal. Below the header, there is a search bar and a table of business filings. The table lists the following information for NTB ASSOCIATES, INC.:

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

Additional details provided include:

- Previous Names:** NTB, INC. (Changed: 1/4/2000)
- Business:** NTB ASSOCIATES, INC.
- Charter Number:** 34216133D
- Registration Date:** 8/14/1986
- Domicile Address:** 525 LOUISIANA AVE., SHREVEPORT, LA 71101
- Mailing Address:** 525 LOUISIANA AVE., SHREVEPORT, LA 71101
- Principal Office Address:** 525 LOUISIANA AVE., SHREVEPORT, LA 71101
- Status:** Active
- Annual Report Status:** In Good Standing
- File Date:** 8/14/1986
- Last Report Filed:** 7/25/2025
- Type:** Business Corporation

The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 4:13 PM on 9/28/2025.

TRC Engineers, Inc.

TRC Engineers, Inc. Page **121** of **125**

20. Certifications/Licenses:



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Name	Type	City	Status
FRANKLIN ASSOCIATES, LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names

FRANKLIN INDUSTRIES, LLC (Changed: 10/5/2011)

Business: FRANKLIN ASSOCIATES, LLC

Charter Number: 36013721K

Registration Date: 9/13/2005

Domicile Address

250 S. FOSTER DRIVE

BATON ROUGE, LA 708064103

Mailing Address

C/O PERRY J. FRANKLIN, SR.

250 S. FOSTER DRIVE

BATON ROUGE, LA 708064103

Status

Status: Active

Annual Report Status: In Good Standing

File Date: 9/13/2005

Last Report Filed: 8/14/2025

Type: Limited Liability Company

Registered Agent(s)

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TRC Engineers, Inc.

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21. QA/QC Plan:

Not Required

22. Sub-consultant information:

Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS: including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and email address	Phone Number
WSP USA INC.	1100 Poydras Street, Suite 1175 New Orleans, LA 70163	Max Nassar max.nassar@wsp.com	(225) 218-3584
NTB ASSOCIATES, INC.	525 Louisiana Ave. Shreveport, LA 71101	Michael J. King mking@ntbainc.com	(225) 751-4002
GEOENGINEERS, INC.	11923 Sun Belt Court, Baton Rouge, LA 70809	Larry Sant LSant@geoengineers.com	(225) 663-1522
URBAN SYSTEMS ASSOCIATES, INC.	2000 Tulane Ave. Suite 200 New Orleans, LA 70112	Alison C. Michel acmichel@urbansystems.com	(504) 569-3958
FRANKLIN ASSOCIATES, LLC	250 S Foster Drive Baton Rouge, LA 70806	Perry Franklin perry@franklinassociates.com	(225) 768-9060

23. Location:

N/A