

I-20: Mississippi River Bridge at Vicksburg Route: I-20 Madison Parish

Louisiana Department of Transportation and Development
State Project No. H.015788.1; Federal Aid Project No. H015788
April 30, 2025

Contract Number:
4400032013

Delivering a better world

April 30, 2025



Louisiana Department of Transportation and Development (DOTD)
Attn: Mr. Ryan Morvant DOTD Contract Manager (CM)
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

AECOM Technical Services, Inc.
8555 United Plaza Boulevard, Suite 300
Baton Rouge, LA 70809
(225) 922-5700

RE: Contract No. 4400032013 State Project No. H.015788.1 Federal Aid Project No. H015788 I-20: Mississippi River BR at Vicksburg route: I-20 Madison Parish

The I-20 bridge in Vicksburg is one of the most critically important connections in the states of Louisiana and Mississippi. The Louisiana Department of Transportation and Development (DOTD), in conjunction with the Mississippi Department of Transportation (MDOT), needs a team that can apply proven techniques for bridge rehabilitation and geotechnical solutions, efficiently engage stakeholders, and develop long-term alternatives for the I-20 crossing of the Mississippi River.

AECOM Technical Services, Inc. (AECOM) is the team that can bring expertise and innovation. In addition to world class bridge expertise AECOM is also a recognized national leader in the geotechnical arena making us ready to develop the solutions needed for the I-20 crossing.

Combined with a history of success for DOTD and proven subconsultant partners, we are committed to providing unparalleled performance on this contract. In reviewing our proposal, please consider these reasons why AECOM is ideally suited for this work:

Qualified Global and Local Staff

Our qualified staff includes specialized structural, roadway, geotechnical, planning, environmental, traffic operations and surveying professionals who have dedicated their careers to providing quality engineering services. We bring national experts from AECOM's Complex Bridge and Geotechnical Leadership Team including Ken Butler, Bob Anderson and John Volk individuals with world-class expertise. Enhancing the team further; we've partnered with local firms, who have acquired many years of knowledge working on the I-20 Vicksburg MRB crossing and the adjacent Old US 80/Mississippi River Railroad Bridge including Ardaman & Associates, Inc. (Ardaman) Burns Cooley Dennis, Inc. (BCD) and Huval & Associates, Inc. (HUVAL). Rounding out the team with extensive experience and capabilities are Arcadis U.S., Inc.; Dan Brown and Associates (DBA); Fahrenheit Creative Group LLC; Forte and Tablada, Inc. (F&T); Locus, LLC (LOCUS); Marmillon Gray Media, Inc.; The Lakvold Group LLC (Lakvold); and Vectura Consulting Services, LLC (Vectura). This assembled team will apply their outstanding skillset to deliver for DOTD.



A Team You Know and Trust

AECOM and our subconsultants have been working successfully together to complete and deliver bridge projects for DOTD, MDOT, and other Louisiana and Mississippi clients. We have developed a team that fully satisfies all the minimum personnel requirements and can deliver confident solutions for long-term bridge rehabilitation as well as feasible, agreed-upon locations for a new crossing. Ardaman and BCD bring a wealth of experience from their previous work at the site and in the vicinity and will apply a slightly different focus managing the validity of approaches to analysis and design. On the I-20 Vicksburg MRB, Arcadis will bring different perspectives to ensure the validity of our approach to analysis and design. They will also support the Planning and Environmental Linkages (PEL) tasks managing the transportation modeling and traffic analysis in connection with Vectura providing traffic data collection. HUVAL is part of the team, supporting the bridge design tasks. Stakeholders and community engagement will be delivered under the guidance of Rannah Gray, who has supported several other DOTD projects at this scale. Fahrenheit has been selected to engage stakeholders in Mississippi. They have helped introduce and complete several public initiatives and projects in Mississippi and will reach out to Vicksburg Neighborhood Associations and residents. F&T will provide both local knowledge and cutting-edge survey technology and data. Lakvold will provide ROW services with LOCUS providing insight on river navigation and simulation while helping to assemble maritime stakeholders to integrate their input into the designs.

Proven Success on Similar Projects

The AECOM team has successfully completed and supported similar projects, such as the I-80 Mississippi River Bridge study, demonstrating our ability to handle the unique challenges projects pose on major waterways. AECOM, with staff identified on this team, has successfully stabilized and rehabilitated a bridge under similar conditions over the Missouri River in South Dakota and delivered the longest Cable Stayed Bridge span in North America, the Gordie Howe International Bridge, connecting the US and Canada. In *Section 17 of Form 24-102*, we detail the projects that demonstrate our success across our entire team.

Innovative Methods

AECOM leverages the latest technologies and methodologies to deliver efficient and sustainable solutions. For the Pearl Harbor Memorial Bridge, the first extradosed cable-stayed bridge designed in the United States, this AECOM team blended technologies from Europe and Japan to integrate into the bridge's design. For the Fredrick Douglas Memorial Bridge, in Washington, D.C., the AECOM team designed a graceful, cost-effective, and visually compelling 3-span arch structure. Our role in providing 12 high-load multirotational disktron bearings was pivotal in realizing the vision of a bridge that is classic but not classical.

We are confident in the inspired vision of this classic design with an experienced team assembled for this very important project. AECOM will take a fresh look at an old problem moving forward with streamlined analyses and alternative development. The AECOM team has designed many crossings for major navigable rivers in the U.S. and abroad. In these times of rapidly changing federal requirements, DOTD needs a local, experienced leadership for PEL tasks and to develop a strategy to secure federal approvals and permits. The AECOM team includes several technical specialists and PEL documentation leads who have secured Records of Decisions on other bridges over major navigable waterways.

Thank you for the opportunity to present our team.

Sincerely,

AECOM Technical Services, Inc.



Derek Chisholm,
AICP, ENV SP, LEED GA
Associate Vice President



Kenneth Butler, PE
AECOM Fellow Senior Vice President,
Global Head of Complex Structures



“

With family roots in both Louisiana and Mississippi, this connection is important to me. I am committed to dedicating the time needed to lead this project for the AECOM Team. I will not take on another significant project management role until we have delivered a feasible solution for the existing bridge's rehabilitation, cost-effective concepts for alternative bridge crossings and a final PEL Environmental Report.”



“

The I-20 Vicksburg Mississippi River Bridge project requires a complete understanding of engineering principles, a commitment to safety and the ability to lead a diverse team of experts. I am inspired by the challenge of rehabilitating the existing structure and arresting the movement of the substructure. I am equally inspired by the opportunity to identify new concepts for crossings of the Mississippi River in this location. The satisfaction of seeing a project of this magnitude come to life and serve as a vital link for communities is a driving force for my role.”

Sections 01-13

AECOM

I-20 Vicksburg Bridge

Delta, Louisiana; Vicksburg, Mississippi

Services: In-depth inspection services, close visual “hands-on” inspection of all fracture critical and fatigue-sensitive details; assessing the paint coating system and ultrasonic testing of hanger pins:

- ▶ Minimal traffic disruption
- ▶ Advanced techniques with bridge inspection vehicles and aerial boom lifts

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DOTD FORM: 24-102

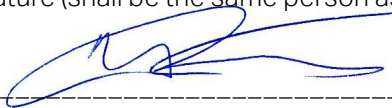
PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	I-20: MISSISSIPPI RIVER BR AT VICKSBURG ROUTE: I-20 MADISON PARISH
2. Contract number(s) as shown in the advertisement	4400032013
3. State Project Number(s), if shown in the advertisement	H.015788.1
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	AECOM Technical Services, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	AECOM Technical Services, Inc. (AECOM) LAPELS No. EF.0002331
6. Prime consultant mailing address	8555 United Plaza Blvd., Suite 300 Baton Rouge, LA 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8555 United Plaza Blvd., Suite 300 Baton Rouge, LA 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Jonathan McDowell, PE Vice President 225.922.5700 jonathan.mcdowell@aecom.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Michael Patorno, PE, CMP Vice President, Business Unit Leader 504.218.0865, mike.patorno@aecom.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9):  ----- Date: April 30, 2025
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	We acknowledge ADDENDUM NO. 1 APRIL 16, 2025 Marmillon Gray Media, Inc. (DBE) (2.0%) The Lakvold Group LLC (DBE) (.05%) Vectura Consulting Services, LLC (DBE) (1.5%) TOTAL DBE: 4.0%

12. Discipline Table

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

Evaluation Discipline(s)	% of Overall Contract	AECOM TECHNICAL SERVICES, INC.	ARCADIS U.S., INC.	ARDAMAN & ASSOCIATES, INC.	BURNS COOLEY DENNIS, INC.	DAN BROWN AND ASSOCIATES, LLC	FAHRENHEIT CREATIVE GROUP LLC	FORTE & TABLADA, INC	HUVAL & ASSOCIATES, INC.	LOCUS, LLC	MARMILLON GRAY MEDIA, INC.	THE LAKVOLD GROUP LLC	VECTURA CONSULTING SERVICES, LLC	Totals
Road	15.0%	80%	20%											100.0%
Bridge	20.0%	75%							25%					100.0%
Traffic	12.5%		100%											100.0%
Geotech	20.0%	40%		20%	20%	20%								100.0%
Survey	2.50%							100%						100.0%
Environmental	15.0%	60%	40%											100.0%
Data Collection	1.50%												100%	100.0%
Planning	8.0%	50%					25%				25%			100.0%
Right-of-Way	0.25%											100%		100.0%
Other (ICE)	2.0%	100%												100.0%
ITS	1.0%		100%											100.0%
Appraiser	0.25%											100%		100.0%
Other (Navigation)	2.0%									100%				100.0%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.														
Total	100.0%	50.0%	22.5%	4.0%	4.0%	4.0%	2.0%	2.5%	5.0%	2.0%	2.0%	.50%	1.5%	100.0%

The only disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). Remove rows as needed.

13. Firm Size

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: http://wwwsp.dotd.la.gov/Inside_DOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
AECOM TECHNICAL SERVICES, INC.	Principal	4	5
	Supervisor - Other	11	14
	Supervisor - Engineer	5	9
	Engineer	5	10
	Engineering Intern	9	13
	Engineering - Other	1	4
	Biologist/Wetlands	1	2
	Environmental Professional	6	9
	Environmental Manager	2	3
	Archaeologist	1	2
	Archaeologist - Tech	1	3
	Economist	1	3
	CAD Technician	0	4
	Senior Technician	4	6
	Administrative	2	3

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
ARCADIS U.S., INC.	Archaeologist	1	4
	Economist	1	3
	Engineer	7	11
	Engineer - Other	4	6
	Engineering-Aide	1	1
	Environmental Manager	1	3
	Environmental Pro	3	6
	Geologist	2	3
	Historian	2	4
	Principal	1	2
	Supervisor - Eng	7	9
ARDAMAN & ASSOCIATES, INC.	Supervisor - Eng	1	1
	Clerical	1	2
	Engineer	2	4
	Engineer Intern	3	6
	Principal	4	6
	Senior Technician	7	9
	Supervisor - Eng	3	3
	Supervisor - Other	2	2
	Technician	10	14
BURNS COOLEY DENNIS, INC.	Geologist	1	2
	Other (Geotechnical Engineer)	2	9

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
DAN BROWN AND ASSOCIATES	Engineer	2	19
FAHRENHEIT CREATIVE GROUP LLC	Principal	1	0
	Clerical	1	4
	Graphics	1	4
	Professional	1	2
FORTE & TABLADA, INC.	Principal	1	2
	Administrative	0	2
	Surveyor	1	5
	Supervisor - Other	1	1
	Senior Technician	1	7
	CADD Technician	2	3
	Technician	1	2
	Party Chief	2	6
	Instrument Man	2	4
	Rodman	0	3
LOCUS, LLC	Professional	3	3

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
HUVAL & ASSOCIATES, INC.	Principal	1	1
	Supervisor - Eng	1	5
	Engineer	4	20
	Engineer Intern	3	5
	Senior Technician	1	1
	Technician	1	1
	CADD Technician	3	4
	CADD Drafter	2	4
MARMILLON GRAY MEDIA, INC.	Principal	1	1
	Graphics	1	2
	Administrative	1	1
THE LAKVOLD GROUP LLC	Professional (Real Estate Appraiser)	1	2
VECTURA CONSULTING SERVICES, LLC	Supervisor-Eng	2	2
	Engineer	3	3
	Engineer Intern	2	2
	Senior Technician	0	2
	Supervisor - Other	1	1
	Technician	1	1
	Clerical	1	1

Sections

14-16

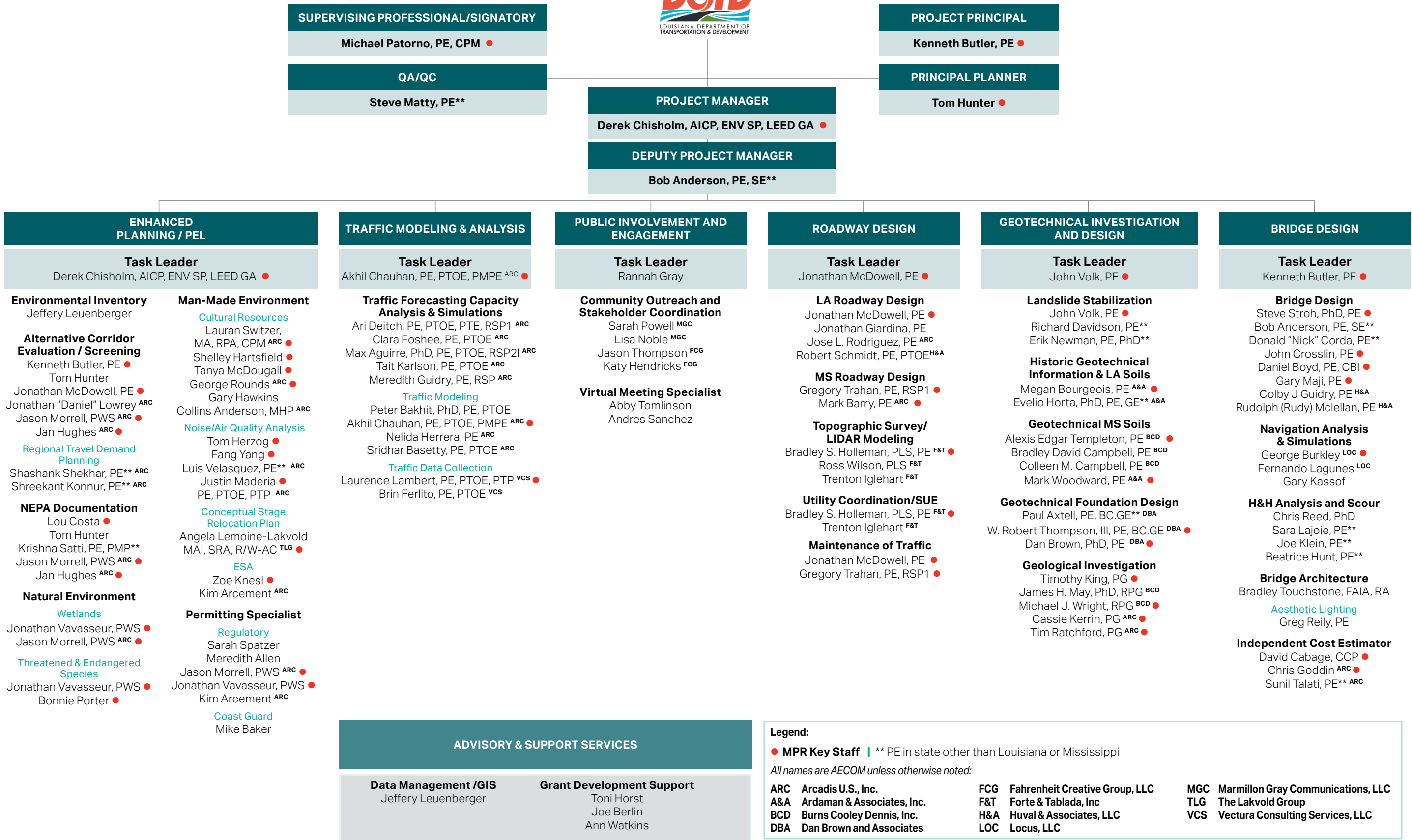
AECOM

I-95 Express Toll Lanes Landslide Stabilization Whitemarsh, MD

Services: AECOM delivered the emergency repair of I-95 in Maryland, stabilizing a 500-foot-long landslide that jeopardized two lanes of traffic. We used a temporary counterberm and permanently stabilized with 49 six-foot diameter drilled shafts with a capping beam.

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14. Organizational Chart



15. Minimum Personnel Requirements

MPR No. <i>Do not insert wording from ad</i>	Personnel being used to meet the MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)</i>	Firm employed by	Type of license/ certification & number	State of license	License/ certification expiration date
1.	Michael Patorno, PE, CPM	AECOM	Civil Engineer, PE 24197	LA	09.30.2025
2.	Michael Patorno, PE, CPM	AECOM	Civil Engineer, PE 24197	LA	09.30.2025
3.	Daniel Boyd, PE Gary Maji, PE	AECOM AECOM	Civil Engineer, PE 36728 Civil Engineer, PE 43044	LA LA	03.31.2026 03.31.2027
4.	Derek Chisholm, AICP, ENV SP, LEED GA Lou Costa Jan Hughes	AECOM AECOM ARCADIS U.S., Inc.	See resumes for references	N/A	N/A
5.	Tom Herzog Justin Maderia, PE, PTOE, PTP	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
6.	Fang Yang	AECOM	N/A	N/A	N/A
7.	Jonathan Vavasseur, PWS Jason Morrell, PWS	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
8.	Jonathan Vavasseur, PWS Bonnie Porter	AECOM AECOM	N/A	N/A	N/A

MPR No. <i>Do not insert wording from ad</i>	Personnel being used to meet the MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)</i>	Firm employed by	Type of license/ certification & number	State of license	License/ certification expiration date
9.	Shelley Hartsfield Lauran Switzer, MA, RPA, CPM	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
10.	Tanya McDougall George Rounds	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
11.	Shelley Hartsfield Lauran Switzer, MA, RPA, CPM	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
12.	Zoe Knesl Cassie Kerrin, PG	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A
13.	Angela Lemoine-Lakvold, MAI, SRA, R/W-AC	The Lakvold Group LLC	N/A	N/A	N/A
14.	John Crosslin, PE Kenneth Butler, PE	AECOM AECOM	Civil Engineer, PE 31498 Civil Engineer, PE 31476	LA LA	03.31.2027 03.31.2027
15.	Kenneth Butler, PE Steve Stroh, PE	AECOM AECOM	Civil Engineer, PE 31476 Civil Engineer, PE 31221	LA LA	03.31.2027 09.30.2025
16.	W. Robert Thompson, III, PE, BC.GE Dan Brown, PE Megan Bourgeois, PE	Dan Brown and Associates, LLC Dan Brown and Associates, LLC Ardaman & Associates, Inc.	Civil Engineer, PE 33408 Civil Engineer, PE 18863 Civil Engineer, PE 36725	LA LA LA	03.31.2026 03.31.2026 03.31.2027
17.	John Volk, PE Megan Bourgeois, PE	AECOM Ardaman & Associates, Inc.	Civil Engineer, PE 38377 Civil Engineer, PE 36725	LA LA	03.31.2026 03.31.2026

MPR No. <i>Do not insert wording from ad</i>	Personnel being used to meet the MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)</i>	Firm employed by	Type of license/ certification & number	State of license	License/ certification expiration date
18.	Alexis Edgar Templeton, PE Mark Woodward, PE	Burns Cooley Dennis, Inc. Ardaman & Associates, Inc.	Civil Engineer, PE 9128 Civil Engineer, PE 29797	MS MS	12.31.2026 12.31.2025
19.	Timothy King, PG Michael J. Wright, RPG Tim Ratchford, PG	AECOM Burns Cooley Dennis, Inc. ARCADIS U.S., Inc.	N/A	N/A	N/A
20.	George Burkley	Locus, LLC	N/A	N/A	N/A
21.	Akhil Chauhan, PE, PTOE, PMP Laurence Lambert, PE, PTOE, PTP	ARCADIS U.S., Inc. Vectura Consulting Services, LLC	Civil Engineer, PE 33703 Civil Engineer, PE 29901	LA LA	09.30.2026 03.31.2026
22.	Jonathan McDowell, PE Gregory Trahan, PE	AECOM AECOM	Civil Engineer, PE 30508 Civil Engineer, PE 36041	LA LA	03.31.2027 03.31.2027
23.	Jonathan McDowell, PE Mark Barry, PE	AECOM ARCADIS U.S., Inc.	Civil Engineer, PE 18686 Civil Engineer, PE 33277	MS MS	12.31.2026 12.31.2026
24.	Bradley S. Holleman, P.L.S., PE	Forte and Tablada, Inc.	Land Surveyor, PLS 5082	LA	09.30.2026
25.	Bradley S. Holleman, P.L.S., PE	Forte and Tablada, Inc.	Land Surveyor, PLS 5082	LA	09.30.2026
26.	David Cabage, CCP Chris Goddin	AECOM ARCADIS U.S., Inc.	N/A	N/A	N/A

MPR

(Minimum Personnel Requirements)

Organized in MPR Sequence 1 2 3...

16. Staff Experience

	Name	Michael D Patorno, PE, CPM		MPR 1, 2
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	26
	Title	SVP, Global Water Resources Market Sector Leader	Years of Relevant Experience with Other Employer(s)	12
Degree(s)/Years/Specialization		BS / 1983 / Civil Engineering		
Active Registration Number /State/Expiration Date		0024197 / LA / 09/30/2025		
Year Registered	1990	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Supervising Professional/Signatory Brief Description: Michael is a professional engineer with extensive experience as a Program and Operations Manager overseeing the planning, designs and construction of a range of civil projects including levees, flood protection, roadway, bridges, major canals, Ports and Harbors, mechanical and civil design of drainage pumping stations, sewer facilities, and utility relocation work. Michael has also worked on various alternative delivery programs varying in size and complexity working with all teams including the financial, engineering and construction sides of the house to facilitate very large programs with multiple groups across the AECOM family.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/08–0/12	Indefinite Delivery Order for General Design Services Within the Limits of the New Orleans District, New Orleans, LA: Managed all civil/structural design components on a variety of projects throughout the District including Melville Ring Levee, West of Algiers Levees and Pumping Stations, Westminster to Lincolnshire Generator and Drainage Pumping Station as well as a variety of other floodwall and levee programs			
12/07–11/12	Algiers Canal & Flood Protection, Algiers, LA: This project included the civil, structural and geotechnical designs for over 4.5-miles of levees and floodgates. Floodgates numbered over 17 with spans varying from 30-feet to 68-feet in width and many founded on foundations able to support various cranes utilized by industry located along the corridor of a major levee in Jefferson and Plaquemines Parish. Unique challenges on the project were the large crane loads transferred to the levee and flood gate system by the local industry which services Louisiana's local offshore oil industry.			

16. Staff Experience

10/05-01/08	MDOT Biloxi Bay and Bay St. Louis Bridge Damage Assessment and Replacement: AECOM was selected to assist with the reconstruction of two major water crossings (700M Construction). The US 90 bridges across Bay St. Louis and Biloxi Bay along the Mississippi Gulf Coast were both bridges were destroyed by Hurricane Katrina. This was the first design-build project for MDOT. AECOM mobilized staff immediately to MDOT's headquarters in Jackson, and worked closely with MDOT to accomplish the following items: Provided on-site support services for the development of design-build guidelines that established authority, defined the design-build process, described the evaluation of the qualifications and bid packages, defined design and construction criteria, described contract administrative procedures, defined material acceptance, and defined final project acceptance, assisted MDOT with the evaluation of the RFQ submittals, developed the RFP documents, established and continues to maintain an MDOT-approved document control system, reviewed and made recommendations to MDOT on the Contractor's submittals, including, but not limited to, schedules, project payment schedule, submittal schedules, invoices, and letter requests, monitored, recorded, and reported meetings held by Contractor or with other project-related agencies, including but not limited to the FHWA, as appropriate, helped to develop MDOT positions on contract issues and support to MDOT staff, provided QA/QC Inspection Personnel.
08/05-12/07	Task Force Guardian – Hurricane Katrina Storm Repairs to Levee System New Orleans, LA: Managed multiple task orders simultaneously and completed repairs of thousands of feet of concrete floodwall and levee systems. Provided design and construction oversight services for 29 USACE projects concerning damages to the Orleans Parish Levee System from Hurricanes Katrina and Rita. Managed this very fast-paced project, with the first 17 projects completed and ready for bids within 60 days. Managed a team of over 100 experts in structural, geotechnical, electrical, mechanical, and civil engineering to complete the repairs. Mobilized the management team within 24 hours and the remainder of the team within less than a week from experts in Louisiana and around the country, and in some cases out of the country. Tasks included construction submittal reviews and coordination of construction activities within a total 9-month period. Team won award for performance.
01/01-12/11	Program Management and Engineering Support Services, New Orleans, LA: Mr. Patorno directed AECOM's response to this 10-year program to repair and upgrade the City's Hurricane Protection System damaged during hurricane Katrina and Rita. This program included working with the USACE side by side as well as with contractors on design build delivery systems for this over \$2 Billion dollars in improvements. In a follow-up contract to the Task Force Guardian program to make repairs after Hurricane Katrina, we marketed and were awarded a contract to assist the HPO with providing improvements to the levee system. Three of the projects were ECI, Early Contractor Involvement which is the USACE's CMAR Process for Design Build.
11/05–02/09	Hurricane Protection Office (HPO) LPV 105-111, New Orleans, LA: In a follow-up contract to the Task Force Guardian program, awarded contract to assist the HPO with providing improvements to the levee system in New Orleans East. Managed all aspects of this \$1.3B geotechnical investigations, feasibility reports, Engineering Alternatives Reports (EARs), design and plans, and specifications for approximately 30 miles of Hurricane Flood Protection System. Worked closely with the HPO team to investigate cost-effective and workable solutions to meet the short time frame. Managed team using staff from multiple offices to maintain HPO's schedule.
08/05-12/07	London Avenue Canal, Interim Closure Structure and Pumping Station, Orleans Parish, LA: Program Manager for the design and analysis of a gated closure structure and a 2,000 cfs pumping station and development of a set of plans and specifications. The project is used to protect outfall canals from surges but permits operation of pumps within the parish during normal rain events.

16. Staff Experience



Name	Daniel Boyd, PE, CBI			MPR 3
Firm	AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	5
Title	Louisiana Bridge Practice Leader/Project Manager		Years of Relevant Experience with Other Employer(s)	13
Degree(s)/Years/Specialization		BS/2006/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.0036728/LA/3.31.26 Additional active license in TX, MS		
Year Registered	2013	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Bridge Design Brief Description: Daniel brings nearly 20 years of structural engineering expertise in the transportation sector. His experience includes roles such as Deputy Project Manager for DOTD Bridge Preservation IDIQ and contributions to the I-49 Lafayette Connector and various design-build projects in Texas. He specializes in bridge design, including steel and concrete girders, retaining walls, and foundation systems, and is an NHI-certified bridge inspector. Daniel is proficient in AASHTO and Louisiana DOTD Standards, with extensive knowledge of the project delivery process from concept to construction.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/23-ongoing	DOTD, Bridge Preventative Maintenance IDIQ, Statewide, LA. Deputy Project Manager: Served a Deputy project manager and structural task manager for multiple Task Orders as part of the ongoing Bridge Preservation IDIQ contract. Responsible for final bridge design of a replacement bridge structure project (H.015603) for LA 10 Bridge over Bayou Carron, providing design and calculations, as well as oversight and discipline coordination, for the entirety of the structural scope of the project. For LA 561 Bridge over Boeuf River (H.001970), provided preliminary bridge and foundation design, discipline coordination, and coordination with DOTD. For LA 641 Bridge over I-10 (H.015603), performed bridge inspection services, load ratings, and bridge repair details and calculations to mitigate damage incurred by an equipment impact to this bridge.			
10/06-08/11	DOTD, US 71/165 Fort Buhlow Bridge/KCS Railroad Overpass, Alexandria, LA. Bridge Design Engineer: For the navigable channel of the Red River, performed design and calculations for the main river spans consisting of two 3-span units (one each direction) with 300'-400'-300' steel plate girder spans, and multiple steel simple spans greater than 200' crossing the river levees. Designed all aspects and components of the steel plate girder bridge units, including diaphragms, bolted splices, bearings, stiffeners, etc. Also performed analysis and design of prestressed concrete girders, concrete bridge deck and columns, bents, and PPC piles, and performed peer review on other components of the project. Collaborated with steel fabricator to review/approve shop drawings and RFI's.			

16. Staff Experience

03/21-ongoing	DOTD, I-49 Connector, Lafayette, LA: Structural design and review for the conceptual and preliminary design of this 7-mile reconstruction of I-49 through downtown Lafayette, LA. Performed reviews of I-49 mainline viaduct layouts for the three different structural options being presented to DOTD for selection. Performed reviews and updated structural quantities and costs to reflect current design layouts and current bid pricing to ensure consistency across the three structural options.
01/07-12/07	City-Parish of East Baton Rouge, Highland Road (LA 42) Improvements (Perkins to Airline), Baton Rouge, LA: Civil/Structural Design Engineer. Performed structural analysis and design on multiple aspects of project. Design responsibilities included concrete bridge deck design, guard rails, analysis and design of prestressed quad beam concrete girders, girder bearing design, and design of prestressed concrete piles and pile bents. Also performed calculation reviews on multiple aspects of project.
10/19-12/20	CPRA, LA 23 Bridge, Plaquemines Parish, LA. Bridge/Structural Engineer: The project consists of a new concrete precast girder bridge, approximately 2,200 feet in length, and the connecting roadway. Assisted with the design plans for the new bridge and roadway structure over the new sediment diversion. Provided QA/QC reviews of calculations and bridge plans.
01/20-ongoing	TxDOT, LBJ East Design Build Project, Dallas, TX: Structural Task Leader and engineer of record for the design of Overhead Sign Structures, consisting of 137 custom Overhead Sign Bridge (OSB) Structures and Cantilever Overhead Sign Structures (COSS), as well as ITS and Tolling equipment structures. The structure inventory included a combination of both ground mounted and bridge mounted applications. Design included analysis of the steel trusses for the OSB and COSS structures, analysis and design of custom aesthetic concrete support columns for the truss structures, and deep drilled shaft foundations for each structure. Designed foundations for High-Mast Lighting and Mast-arm mounted traffic signals in accordance with AASHTO Structural Supports for Highway Signs, Luminaires, & Traffic Signals Specifications. Served as structural task leader during Design Services During Construction (DSDC) phase to answer RFI's, resolve field issues, review shop drawings, plan and schedule drawing and/or calculation revisions, etc.
03/21-06/24	TxDOT, Oak Hill Parkway, Austin, TX: Design Engineer. Design engineer for one bridge package, providing analysis and design for multiple substructures and drilled shaft foundations, Independent Design Check (IDC) engineer for the design of three prestressed bridge packages, and all IDC engineer for all Overhead Sign Structures and Toll Gantries for the project. IDC analyses were performed for entirety of each bridge structure, from geometry, superstructure design, substructure design, and foundation design to verify the validity of each design. Provided engineering support during Design Services During Construction (DSDC) phase to answer RFI's, resolve field issues, and review shop drawings. Provided layout, design, and calculations necessary for Retaining Walls and drilled shaft foundations that were modified during DSDC phase. Task leader and EOR for the final as-built Load Ratings for all new bridges on the project.
10/20-ongoing	TxDOT, IH 820 SE Connector Design-Build Project, Fort Worth, TX: Structural Design and QA/QC. Performed preliminary structural design for multiple substructure and foundation arrangements, including inverted-tee bents, multi-column bents, hammer-head bents, and the foundations for each of these, as part of the preliminary design phase of a large design-build project. Also performed QA/QC on numerous bridge calculations, and detailed plan reviews on bridge plan drawings. Provided engineering support during Design Services During Construction (OSCO) phase to answer RFI's, resolve field issues, review shop drawings, and perform calculations necessary for changes made during construction. Task leader and EOR for the final as-built Load Ratings for all new bridges on the project.
04/20-11/20	Port of Gulfport, Port of Gulfport Connector, Gulfport, MS: Deputy Project Manager and Structures Discipline Leader. The project performed a preliminary layout and design for a new bridge structure to carry 30th Ave. across Hwy. 90 to provide direct trucking and heavy haul access to the Port of Gulfport. Performed geometric layout, preliminary structural design for prestressed concrete girders and steel plate girder superstructures, and preliminary substructure design for the new bridge.

16. Staff Experience

	Name	Gary Maji, PE		MPR 3
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	25
	Title	Vice President, Sr Project Manager	Years of Relevant Experience with Other Employer(s)	11
	Degree(s)/Years/Specialization	BS/1988/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.0043044/LA/3.31.27 Additional active licenses in CO, UT		
Year Registered	2011	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Bridge Design Brief Description: Gary has been in responsible charge of the project/program management, design, rehabilitation, and reconstruction of urban streets, highway bridges and railroad bridges and box culverts built in accordance with AASHTO and AREMA specifications. He has led multi-disciplinary teams throughout the development of the conceptual, preliminary and final design phases and on-call engineering contracts for federal, state and local agencies. His experience includes right-of-way/surveying, environmental, and utility coordination throughout project development. His experience includes the design and preparation of steel and concrete girder bridge plans, project special provisions and project cost estimates formatted in accordance with capital project guidelines.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/23-10/24	DOTD (H.001970), LA 561 Bridge over Boeuf River, Hebert, LA: Project manager for the preliminary roadway and bridge design required for the replacement of an existing 3-span truss bridge over the Boeuf River in Richland and Caldwell Parishes. Gary and the AECOM Team worked integrally with DOTD project manager, geotechnical, environmental, and district staff to confirm approach roadway, drainage, right-of-way, utility, and bridge requirements to replacement this structurally deficient bridge.			
03/18-ongoing	DOTD (H.004273), I-49 Connector, Lafayette, LA: Structure task manager for the conceptual and preliminary design of this 7-mile reconstruction of I-49 through downtown Lafayette, LA. This project has a budget projected over \$1 billion and includes approximately 20 bridges and numerous retaining walls. Bridges span over several interchanges, Vermilion River, short line railroads and a roadway grid network through the Lafayette Central Business District. Structure designs included the evaluation of a 2-mile viaduct structure and a signature span structure considering cast-in-place segmental, spliced concrete tub girders, arched-rib and cable-stayed structure types that integrated context sensitive solutions into the bridge and structure design.			
01/25-ongoing	DOTD (H.015603), LA 641 Bridge over I-10, Gramercy, LA: Project manager for the site assessment, superstructure inspection, and bridge load rating efforts required to prepare bridge girder repair plans, improve the bridge load rating and extend the bridge service life for this 1584-ft, multi-span, pretensioned concrete line girder structure. In April 2023, an over-height equipment trailer impacted a portion of the LA 641 Bridge spanning across the WB lanes of I-10 bridge. The emergency bridge inspection identified damage in Span #10, approximately 31 feet from Bent #11 over the outside WB travel lanes.			

16. Staff Experience

05/24-08/25	DOTD (H.0011993), LA 10 Bridge over Bayou Carron, St. Landry Parish, LA: Project manager for the final bridge design required for the replacement of an existing truss bridge over Bayou Carron. Gary and the AECOM Team worked integrally with DOTD project manager, geotechnical, roadway, and district staff to develop final design calculations, bridge quantity cost estimates, and construction documents for the advertisement of this 3-span replacement bridge using LG36 precast, pretensioned concrete girders.
09/18-05/19	DOTD (H.011670), I-10 at Loyola Avenue Interchange Design-Build Tender Offer, Kenner, LA: Proposal Project Manager and Structural Design Manager for interchange improvements at the I-10 at Loyola Drive to provide new direct access ramps to handle traffic to and from the new passenger terminal at Louis Armstrong International Airport. Duties included coordination with the contractor and all design tasks to prepare the proposal along with review and evaluation of multiple alternative technical concepts. Led plan development and quantity calculations for contractor bid.
05/20-09/21	El Paso County, South Academy Blvd. over BNSF Rehabilitation, El Paso County, CO: Structure lead and in responsible charge for the bridge rehabilitation design for an 800-ft, 6-span, steel plate girder bridge over BNSF tracks in Colorado Springs. As part of the bridge preservation efforts, Gary's team conducted nondestructive testing to evaluate the existing deck condition, performed a fatigue assessment and load rating analysis to develop retrofits for fatigue prone details and identified expansion joint and bearing repair and replacement details to extend the bridge design life. Design efforts include railroad coordination per UPRR/BNSF RR Grade Separation Guidelines.
10/23-ongoing	Brent Spence Bridge Corridor Project, Bi-State Management Team, Cincinnati, OH: Design Quality Manager for the design and construction of this \$3 billion+ major infrastructure reconstruction project in Ohio River Valley of Cincinnati, OH and Covington, KY. As design quality lead, Gary is responsible for the development, training and implementation of a project-specific design quality management plan (DQMP) to deliver project reports, construction plans and specifications using a progressive design build project delivery method. The DQMP outlined roles and responsibilities, referenced project specific design criteria, and defined design quality protocols for quality checking and assurance activities for over 200+ engineering staff.
04/18-09/18	CDOT, SH 59/I-70 Emergency Bridge Replacement (CDOT NPS Contract), Seibert, CO: Quality Manager for the emergency bridge replacement project of the SH59 Bridge over I-70 in eastern Colorado. Gary developed project quality schedules, technical protocols and provided quality audits for this multi-disciplinary, blended-team project bridge and interchange reconstruction project. CMAR contracting enabled CDOT's project team to replace the bridge and bring the interchange geometry to current AASTHO standards re-opening the interchange 76-days after the initial closure.
03/13-05/21	City of Fort Collins, Lemay Avenue over BNSF/Vine Improvements, Fort Collins, CO: Structure manager for the planning and design development for a new bridge crossing over Vine Street and the BNSF Railway tracks in northeast Fort Collins. Using a CM/GC project delivery, Gary's structure team led the design of a single-span prestressed concrete girder bridge, (13) rockery retaining walls, and a pedestrian underpass structure that improves safety and provides multimodal connectivity to this area of the city. Design efforts included railroad coordination and design submittals developed in accordance with the UPRR/BNSF RR Grade Separation Guidelines.
02/96-05/97	City of Virginia Beach, Route 60 (Pacific Ave) over Rudee Inlet, Virginia Beach, VA: Bridge engineer for the 8-span, 690-ft prestressed concrete girder twin-viaduct. This bridge rehabilitation project required detailed planning and coordination to evaluate substructure deterioration concerns associated with vessel impact damage. Extensive utility and marine coordination was a necessity to expedite this project's completion. Substructure rehabilitation design components required the incorporation of AASHTO's seismic category B requirements and the design of a new bridge fendering system at two (2) pier locations.

16. Staff Experience

	Name	Derek Chisholm, AICP, ENV SP, LEED GA		MPR 4
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	10
	Title	Principal Planner, Associate Vice President	Years of Relevant Experience with Other Employer(s)	22
Degree(s)/Years/Specialization		BS/1993/Organizational Management MPA/1997/Environmental Planning Specialty Cert/2022/Public Policy Implementation		
Active Registration Number /State/Expiration Date		FHWA-NHI-142005 NEPA and Transportation Decision-Making. Nov 4-6, 2014. American Institute of Certified Planners #147159 2011 LEED Green Associate (#10148303) 2014 Envision Sustainable Professional Completed training course provided by Advisory Council on Historic Preservation, and taught Historic Preservation for six years at Washington State University		
Year Registered	2011	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Project Manager / Task Leader, Enhanced Planning / PEL Brief Description: Derek is a senior-level NEPA expert and Project Manager, living in Louisiana, with thirty years of progressive experience. He has managed complex, conceptual planning and NEPA studies for different State DOTs, FHWA, and FTA. Mr. Chisholm, and the projects that he has helped lead, have won numerous awards, some of which are shown below.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/16 – Ongoing Record of Decision expected 2025-2026	LADOTD State Project No. H.004273.5, I-49 Lafayette Connector Project, Lafayette, LA. The team is currently completing the Draft Supplemental EIS for the I-49 corridor in Lafayette. Derek serves as the bridge between the public and stakeholder involvement and the environmental team, set up the comment management system and facilitated the Section 106 consultation and other public engagements. He leads the Environmental Task. DOTD won a 2022 TransComm Interactive Marketing Award for the I-49 Lafayette Connector Virtual Reality Room; Derek led its development. References: Noel.Ardoin@la.gov; Office (225) 242-4502; Timothy.nickel@la.gov, 225-379-1110			
11/17 – 02/23	LADOTD State Project No. H.001779.2, Jimmie Davis Bridge Supplemental EA, Bossier and Caddo Parishes, LA. Derek has served as a Senior Advisor on this project, providing quality control review and assisting on complex issues related to bicycling connectivity, Section 4(f) and the final FHWA comments on the preliminary, draft Supplemental Environmental Assessment.			
11/18 - Ongoing	FHWA Synthesis Report on Automated Vehicles and NEPA, Nationwide. Derek was the Project Manager for this national study of the manner in which automated vehicles are being incorporated in NEPA analysis. The team interviewed various subject matter experts and DOT leaders who were working on AV deployment projects and NEPA studies, nationwide.			

16. Staff Experience

03/07 – 02/14 Record of Decision 2011	Columbia River Crossing, Portland, OR. This project included a major bridge over a navigable waterway with additional vehicular lanes, multi-modal improvements between Portland Oregon and Vancouver Washington. As the Environmental lead, Derek prepared environmental documentation and numerous impact analyses. Various complex tasks were managed by him and his team including reburial of tribal remains, de-minimis negotiations for park impacts, navigation and aviation vertical constraints, a Biological Opinion and take, construction phasing, and more. The environmental work won National Environmental Excellence Awards. References: Carley Francis; WSDOT Regional Administrator; 360-905-2001; carley.francis@wsdot.wa.gov Heather Wills; Client side NEPA PM now with WSP; 503-478-2873; hwills@wsp.com Steve Morrow; Client NEPA DPM now with Western Federal Lands; 360-619-7811. stephen.morrow@dot.gov Kris Strickler; ODOT Director; 503-986-3452; kristopher.w.strickler@odot.state.or.us
03/19 – 02/21 State Dept. Presidential Permit. 2013	Gordie Howe International Bridge, Detroit, MI to Windsor Canada. Derek assisted the project with sustainable design, related impact analyses, and environmental performance documentation. This project won several awards including Best Road/Bridge/Tunnel Project from the 2019 P3 Awards and NAEP Environmental Excellence Award for Best Available or Innovative Technology. Reference: Andrea Bohmholdt, Environmental Lead now with MITRE; abohmholdt@mitre.org;
03/18 – 09/20	US Air Force, Barksdale Air Force Base, New East Gate Environmental Assessment, Bossier City, LA. To improve traffic congestion, safety/national security, Derek assisted with the Environmental Assessment of this improvement. The US Air Force designed the portion for which AECOM prepared an EA.
10/18 – 02/20 Record of Decision 2021	I-11 Corridor Alternative Selection Report and Tier 1 Environmental Impact Statement (EIS), AZ. The I-11 Corridor Study involves conducting alternatives analysis and preparing a Tier 1 Environmental Impact Statement (EIS) to assess a new 280-mile high-capacity, access-controlled transportation corridor in Arizona. Derek served as the Senior Advisor, providing guidance and quality control for the socio-economic and land use elements. Reference: Jessica Rietz; AECOM PM; jessica.rietz@aecom.com; 602-648-2506
11/07 – 03/10 Record of Decision 2011	WSDOT Alaska Way Viaduct Seattle Waterfront Promenade and Overlook Walk –Seattle, WA. Derek led the socio-economic and land use, authored the respective sections of the discipline reports and EISs. Chisholm led the development of an analytical model and outreach program to determine potential high and disproportionate impacts related to tolling of the facility. Reference: Daryl Wendle; Consultant PM; Dwendle@parametrix.com; 206 394 3700
05/10-8/13	ODOT Clackamas River-Springwater Road Bridge. Clackamas, OR. This project developed and evaluated alternative river crossings in the core of Carver, Oregon. Derek led the public involvement discussions and development of the Environmental Assessment.
07/08-09/10 Record of Decision 2010	Portland-Milwaukie Tilikum Crossing, Bridge of the People. Portland OR. Derek supported the built environment NEPA analysis for this project and worked on the analysis and mitigation development for impacts caused by a new facility for the maintenance of light rail vehicles. This project won numerous awards: National Honor Award, 2016 (ACEC), Best Highway/Bridge Project Award, 2016. Engineering News-Record (ENR), Northwest. Reference: Daryl Wendle; Consultant PM; Dwendle@parametrix.com; 206 394 3700
07/10-04/13 Record of Decision 2010	WSDOT Mukilteo Multimodal Project, Mukilteo, WA. Derek wrote the socio-economic technical report, assisted with cultural resource issues, and authored sections of the Final Environmental Assessment. This project won the Outstanding Achievement Award for Excellence in Environmental Document Preparation, EIS Category, FTA, 2013. Gold Award, ACEC Washington, 2013.
03/07 -11/10 Record of Decision 2012	ODOT HWY 99 Bypass NEPA, Yamhill County, OR. Derek oversaw the public involvement efforts related to socioeconomics for this highway project. He coordinated with social service organizations and led a number of outreach events including meetings with affected migrant farm workers and others. Reference: Emily Cline (Environmental Specialist, FHWA Oregon) emily.cline@dot.gov 503-316-2547
10/05-04/07	ODOT Bridges Visual Performance Standards– Oregon Statewide. Derek led a team of ODOT project management specialists, engineers, visual specialists, and others in preparing the visual performance standards (VPS) for the Oregon Transportation Investment Act (OTIA) III State Bridge Delivery Program.

16. Staff Experience

	Name	Lou Costa			MPR 4
	Firm	AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	21
	Title	NEPA Documentation		Years of Relevant Experience with Other Employer(s)	31
Degree(s)/Years/Specialization		BA/1964/Political Science and History; MCP/1970/City Planning and Urban Design NHI Course 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making" Introduction to Federal Projects and Historic Preservation offered through the General Services Administration			
Active Registration Number /State/Expiration Date		N/A			
Year Registered	N/A	Discipline	Environmental		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: NEPA Documentation Brief Description: Lou will assess built environment impacts using skills developed over 50 years in the environmental analysis of highway and transit facilities as well as the management of other transportation, and historic preservation projects.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
05/13-07/15	DOTD, State Project No. H.001779.5 Red River Bridge at Jimmie Davis Highway (LA 511) EA, Bossier and Caddo Parishes, LA: Project Manager for an Environmental Assessment (EA) to improve capacity of the LA 511 crossing of the Red River. Major concerns are community concern that the project is long overdue, commercial relocations, impacts to wetlands, and the inclusion of a shared use trail on the bridge to connect the existing trails on each side. To date, the Draft Supplemental EIS has been prepared and is being reviewed by FHWA. The public hearing is tentatively planned for later in 2025.				
10/16 – Ongoing Record of Decision expected 2025-2026	DOTD State Project No. H.004273.5 I-49 Lafayette Connector Supplemental EIS: Task Lead for preparation of the SEIS for the 5.5-mile segment of I-49 South through urban area of Lafayette, LA. This assignment includes management of the Section 106 process for the project-both the Standing Structures Inventory Update and the consultation process. To date work has involved preparing the Inventory Update and coordinating with the CSS and design team members in a Concept Refinement Process to identify alternatives to be studied in the SEIS. Reference: Noel.Ardoine@la.gov; Office (225) 242-4502; Timothy.nickel@la.gov, 225-379-1110				

16. Staff Experience

02/03-01/08 Record of Decision 2008	DOTD State Project No. 700-92-0011 I-49 South-Raceland to Westbank Expressway EIS, Lafourche, St. Charles, and Jefferson Parishes, LA: Project Manager for the EIS for 38 miles of interstate highway in the US 90 corridor. Led a team providing line and grade, public outreach, traffic analysis, website development, cultural resource investigation, and preparation of supplemental environmental reports. Originally the project was intended to prepare two EISs for each of two sections of independent utility. Following the review of the DEIS for SIU 1 comments and in response to the 2005 hurricane season, a single EIS was undertaken. AECOM performed line and grade and public outreach services as well as program management. Louis was the lead author of the EIS document. A ROD was issued by FHWA in 2008. This project was one of the first DOTD projects to include a Project Management Plan mandated for mega-projects by SAFETEA-LU. Reference: Mr. Mike Aghayan, DOTD retired
10/00-10/05 Record of Decision 2005	DOTD State Project No. 799-99-0230 I-49 South Lafayette Regional Airport to LA 88 EIS, Iberia, Lafayette, and St. Martin Parishes, LA: Deputy Project Manager for an EIS for 10.8 miles of new urban and suburban interstate highway in the US 90 alignment. Major issues included highly congested intersections at railroad grade crossings in industrial areas and community opposition. A ROD was issued by FHWA in 2005. Reference: Mr. Kent Israel, DOTD retired
11/00-12/06 Record of Decision 2006	DOTD State Project No. 700-99-0230 I-49 South-Wax Lake Outlet to Berwick EIS, St. Mary Parish, LA: Project Manager for an EIS for 9.3 miles of rural and suburban interstate highway in the US 90 alignment plus a 1-mile rural access road. Wetlands were largely avoided by the use of the existing alignment, but Louisiana Black Bear habitat and the proximity of a main line railroad paralleling US 90 were major concerns. The project included an extensive public participation program. Work involved standardizing travel lane widths, adding safety shoulders, and providing interchanges, frontage roads, and drainage improvements. A ROD was issued by FHWA in 2006. Reference: Mr. Kent Israel, DOTD retired and Ms. Jan Hughes, DOTD retired
01/12-03/14 Record of Decision 2014	Maryland Transit Authority, Purple Line EIS, Suburban Washington, D.C.: Member of the EIS team for the preparation of this document. Primary areas of his responsibility were the construction impacts, visual assessment, indirect and cumulative sections, and the responses to comments. The project received the 2015 FTA Outstanding Achievement Award for Excellence in Environmental Document Preparation in the EIS category. A ROD was issued by FTA in 2014. Reference: Ms. Leslie Roche AECOM retired
07/08-08/12 Record of Decision 2012	Metropolitan Atlanta Rapid Transit Authority, Atlanta BeltLine Tier 1 EIS, Atlanta, GA: Member of the EIS team for this major transit project to create a 23-mile light rail system and trails encircling the inner city of Atlanta in existing railroad corridors, including the creation of four major transfer facilities where the new rail line intersects with the existing MARTA heavy rail transit system. Lou prepared the transportation and land use sections and performed a quality control review of the other chapters. He also prepared the ROD that was issued by FTA in 2012. Reference: Ms. Adelee LeGrand (now with Hillsborough Area Regional Transit Authority, Tampa, FL) (813) 384-6301

16. Staff Experience

	Name	Jan Hughes			MPR 4
	Firm	Arcadis		Years of Relevant Experience with this Employer	<1
	Title	Senior NEPA Planner		Years of Relevant Experience with Other Employer(s)	25
Degree(s)/Years/Specialization		BA, Anthropology, Louisiana State University, 1984			
Active Registration Number/State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Alternative Corridor Evaluation/Screening / NEPA Documentation Brief Description: Jan brings 25 years of experience with the LADOTD Environmental Section overseeing the National Environmental Policy Act (NEPA) process for proposed transportation projects, as well as preparing NEPA, Section 106 of the National Historic Preservation Act, and Section 4(f) of the U.S. DOT Act documentation for FHWA and U.S. Coast Guard. She has taken NHI Course No. 142055, NEPA and Transportation Decision Making. Jan has primary responsibility for authoring NEPA documents, including the Airline Highway Environmental Assessment for FHWA for which a FONSI was issued, and the Oaklawn Bridge Categorical Exclusion Reevaluation approved by FHWA. In addition to the projects listed below, throughout her career Jan has provided oversight for numerous staff and consultant prepared NEPA documents for LADOTD and local entities. She has also coordinated with federal, state, and local agencies on other environmental issues. She has conducted public involvement activities, including meetings and hearings. Jan was a project team member in the development of the 2015 Louisiana Historic Bridge Inventory and Section 106 Programmatic Agreement for Treatment of Louisiana Historic Bridges.			
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/01 - 12/06		I-49 South, Wax Lake Outlet to Berwick, Route US 90, Environmental Impact Statement/ROD, LADOTD, St. Mary Parish, LA. LADOTD NEPA Lead. Upgrade of this 9.3-mile portion of US 90 to a four-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for FHWA which was approved as a ROD. Reference: NOEL ARDOIN, Environmental Engineer Administrator Phone: 225-242-4501, Email: Noel.Ardoin@LA.GOV			
04/01 - 10/05		I-49 South, Lafayette Regional Airport to LA 88, Route US 90, Environmental Impact Statement/ROD, LADOTD, Iberia/Lafayette/St. Martin Parishes, LA. LADOTD NEPA Lead. Upgrade of this 10.8-mile portion of US 90 to a six-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for FHWA which was approved as a ROD. Reference: NOEL ARDOIN, Environmental Engineer Administrator Phone: 225-242-4501, Email: Noel.Ardoin@LA.GOV			
07/15 - 02/19*		I-49 South, I-10 to Lafayette Regional Airport, Route US 90/US 167, Supplemental Environmental Impact Statement (SEIS), LADOTD, Lafayette Parish, LA. LADOTD NEPA Lead. Preparation of a SEIS that includes follow-up to commitments made in the 2003 Record of Decision (ROD) for the upgrade of this 5-mile portion of US 90/US 167 in urban Lafayette to a six-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the NEPA process and the consultant NEPA work, which includes extensive public involvement . Also carried out the SEIS initiation process and re-initiation of the Section 106 process. Reference: NOEL ARDOIN, Environmental Engineer Administrator Phone: 225-242-4501, Email: Noel.Ardoin@LA.GOV			

16. Staff Experience

11/22 – Ongoing	US 11 Norfolk Southern Railroad, Route US 11, Environmental Assessment/FONSI, LADOTD, St. Tammany Parish, LA. Coordinating with LADOTD regarding the reevaluation of the FONSI.
04/23 – 04/23	Airline Highway North (Florida Blvd to I-110), Route US 61, City of Baton Rouge and East Baton Rouge Parish, East Baton Rouge Parish, LA. Assisted with preparation of the Stage 0 checklist.
10/22 – 05/23	LA 16 (Pete's Highway)/I-12 Interchange, Route LA 16, Environmental Assessment, LADOTD, Livingston Parish, LA. Coordinated with LADOTD to revise the draft Environmental Assessment to incorporate the rewritten construction phasing section of the document.
10/22 – 05/23	Rural Bridges Initiative II, Districts 02, 03, 07, 61, and 62, LADOTD. Reviewed and provided comments on draft Programmatic Categorical Exclusion documents for multiple projects.
02/94 – 08/98	Airline Highway (US 61), Florida Boulevard to Just North of Jefferson Hwy., Environmental Assessment/FONSI, LADOTD, East Baton Rouge Parish, LA. LADOTD NEPA Lead. Widening of this approximately 3.5-mile portion of Airline Highway from four lanes to six lanes. Responsible for handling the NEPA process and primary responsibility for authoring the Environmental Assessment with Programmatic 4(f) Statement for an adjacent park for FHWA for which a FONSI was issued.
01/11 – 05/15	Bayou Teche Bridge at Oaklawn, Route LA 323, Categorical Exclusion Re-evaluation, LADOTD, St. Mary Parish, LA. LADOTD NEPA Lead. Replacement of this historic, one lane, swing span bridge built in 1942 with a two-lane bridge on existing alignment. Responsible for handling the NEPA process and primary responsibility for authoring the NEPA document approved by FHWA. Also handled the Section 106 Consulting Parties process, preparation of the Section 106 Memorandum of Agreement and Programmatic Section 4(f) Statement for adverse impact to the bridge, and the historic bridge marketing and draft agreement for LADOTD's first ownership transfer of a historic bridge to another entity for alternate use.
03/02 – 03/05	Huey P. Long Bridge, Route US 90, Environmental Assessment, LADOTD, Jefferson Parish, LA. LADOTD NEPA Lead. Widening of the highway portions of this historic highway/railroad bridge constructed in the 1930s from two 9-foot-wide lanes to three 11-foot-wide lanes. Responsible for oversight of the NEPA process and consultant preparation of the NEPA document for U.S. Coast Guard. Also handled coordination with the New Orleans Public Belt Railroad and Louisiana State Historic Preservation Officer and preparation of the Section 106 Memorandum of Agreement for the adverse impact to the historic bridge.
01/95 – 12/01	Inner Loop Extension (LA 3132), Ellerbe Road to Flourney Lucas Road, Environmental Assessment/FONSI, LADOTD and City of Shreveport, LA, Caddo Parish. LADOTD NEPA Lead. Extension of the Inner Loop on new alignment as a four-lane control of access facility with interchanges and upgrade of adjacent roadways. Responsible for oversight of the NEPA process and consultant preparation of the Environmental Assessment for FHWA for which a FONSI was issued.
01/15 – 02/19*	Inner Loop Extension (LA 3132), E. Flourney Lucas Rd (LA 523) to Future I-69 Corridor, Environmental Assessment, LADOTD and City of Shreveport, Caddo Parish, LA. LADOTD NEPA Lead. Extension of the Inner Loop on new alignment as a four-lane control of access facility from LA 523 to Future I-69 with interchanges and upgrades to adjacent roadways. Responsible for oversight of the NEPA process and consultant preparation of the Environmental Assessment for FHWA.

*Until retirement from LADOTD in February 2019.

16. Staff Experience

	Name	Tom Herzog		MPR 5
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	20
	Title	Noise Analysis	Years of Relevant Experience with Other Employer(s)	12
Degree(s)/Years/Specialization		MBA/1994/Finance; BA/1988/Physics		
Active Registration Number /State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Noise/Air Quality Analysis Brief Description: Tom specializes in determining transportation noise and vibration impacts, and designing cost-effective mitigation measures. He uses the latest prediction methodologies, including the FHWA's Traffic Noise Model (TNM) for highway and bus rapid transit noise, the FTA's Transit Noise and Vibration Modeling Assessment guidelines, as well as other acoustical algorithms and methodologies to predict and assess noise impacts from highway and transit sources (such as pure tone mitigation). He has also used the FHWA Roadway Construction Noise Model and the FTA construction guidelines to assess noise and vibration impacts from, and develop mitigation measure for, proposed construction activities.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/14-07/19	DOTD, SPN H.001779.5, Red River Bridge at Jimmie Davis Highway (LA 511) EA, Bossier and Caddo Parishes, LA: Noise Analysis. Tom prepared an FHWA highway noise assessment that evaluated traffic noise impacts on nearby residences due to the proposed replacement of the Jimmie Davis Bridge just south of Shreveport. The noise analysis evaluated various design options along the roadway widening project in accordance with the LA DOTD's Highway Traffic Noise Policy. The noise analysis included an assessment of future project noise levels to determine the need for mitigation.			
03/16-Ongoing	DOTD, SPN H.004273.5, I-49 Lafayette Connector Supplemental EIS, LA: Noise Analysis. Tom led the traffic noise impact assessments for the proposed introduction of a new six-lane elevated 5½-mile interstate highway through downtown Lafayette. The noise analysis utilized the most recently released FHWA Traffic Noise Model (TNM) Version 3.1 to predict the potential impacts at nearby residences along the Project corridor. Where noise impacts were predicted, nine noise barriers were evaluated to optimize the noise reduction at the selected modeling sites. The barriers were evaluated in accordance with DOTD Highway Traffic Noise Policy to determine their feasibility and reasonableness.			
05/23-Ongoing	PennDOT I-81 Reconstruction Project, Section D46, Preliminary Engineering Noise Report, PA: Noise Analysis. Tom led the noise impact assessment for the proposed widening and redevelopment of an 8-mile section of the I-81 Interstate between Wilkes-Barre Scranton International Airport in Avoca to a point just north of the President Biden Expressway in Scranton. The noise analysis utilized the FHWA Traffic Noise Model (TNM) version 2.5 to predict the potential impacts at nearby residences in the study area due to roadway traffic. The evaluations were conducted for four interchanges and two mainlines widened from four to six lanes. Noise measurements were conducted to establish the baseline conditions and to validate the prediction model. Where noise impacts were predicted, 23 wayside noise barriers were evaluated to optimize the noise reduction at the selected modeling sites. The barriers were evaluated in accordance with the PennDOT Publication No. 24 to determine their feasibility and reasonableness.			

16. Staff Experience

05/21-11/24	NJ Turnpike Interchange 1 to 4 Widening Program, Preliminary Engineering Noise Report, NJ: Noise Analysis. Tom led the noise impact assessment for the proposed widening and redevelopment of a 36-mile section of the New Jersey Turnpike between Interchange 1 along the Delaware border to Interchange 4 in Mt. Laurel. The noise analysis utilized the FHWA Traffic Noise Model (TNM) version 2.5 to predict the potential impacts at nearby residences in the study area due to roadway traffic. The evaluations were conducted for multiple Build Design Options including a widened mainline as well as two new interchanges. Noise measurements were conducted to establish the baseline conditions and to validate the prediction model. Where noise impacts were predicted, 51 wayside noise barriers were evaluated to optimize the noise reduction at the selected modeling sites. The barriers were evaluated in accordance with the NJTA's recently updated Policy for Construction of Noise Barriers in Residential Areas to determine their feasibility and reasonableness.
07/15-09/15	MDOT, Gulfport Connector/US 90 Project EA/PE, MS: Noise Analysis. Tom led the traffic noise impact assessment for the proposed construction of a 160-foot grade separated bridge over US Highway 90 to improve the connectivity with the container port in Harrison County, MS. The noise analysis utilized the most current FHWA Traffic Noise Model (TNM) to predict the potential impacts at nearby residences in the vicinity of the new bridge and adjacent to the roadway improvements along the intermodal truck corridor (30th Avenue) for the Existing and future No Build and Build Alternatives. Noise measurements were also conducted to establish the baseline conditions and to validate the prediction model. Where noise impacts were predicted, mitigation was evaluated in accordance with MDOT Highway Traffic Noise Policy to determine whether they would be feasible and reasonable.
11/05-04/12	NYSDOT Tappan Zee Bridge Replacement Project, Alternative Analysis and EIS Phases, NY: Air Quality and Noise Analysis. Tom assisted with the environmental analyses of the roadway traffic noise along the 30-mile corridor that included the replacement of the Tappan Zee Bridge, introduction of HOV and HOT lanes as well as commuter rail service within the highway ROW. The noise assessment was conducted in accordance with the new FHWA Highway Traffic Noise: Analysis and Abatement Guidance [July 2010]. The traffic analysis included highway volumes of almost 200,000 AADT, both bus and commuter rail transit and mitigation that evaluated over 30 noise barriers using both the FHWA and the FTA modeling guidelines. The traffic noise barrier analysis also included an evaluation of replacing existing barriers in new locations or at increased heights to account for the new bus and diesel locomotive transit sources. A detailed construction analysis was also conducted using the FHWA Roadway Construction Noise Model, RCNM.
06/17-06/19	PennDOT I-78/SR-61 Interchange EA & Final Design, PA: Air Quality and Noise Analysis. Tom led the traffic noise impact assessments for the proposed re-design of the I-78 and SR 61 interchange and bridge improvements in Hamburg, PA. The noise analysis included a detailed noise barrier analysis to fine-tune and optimize the barrier dimensions, noise reduction and overall barrier construction costs. Working with the geotechnical and civil design team, this iterative design process also included an evaluation of utility constraints, application of structure-mounted barriers on a bridge and the application of the Equivalent Receptor Units (ERU) methodology to nearby parks and trails. The noise barriers were evaluated in accordance with PennDOT Publication #24, Project Level Highway Traffic Noise Handbook to determine their feasibility and reasonableness.
03/19-7/19	NCDOT Independence Boulevard, NC: Noise Analysis. Tom prepared an FHWA highway noise assessment that evaluated traffic noise impacts on nearby residences due to the proposed roadway improvements along Independence Boulevard in Wilmington, NC. The noise analysis evaluated various design options along the roadway improvement project in accordance with the NCDOT's 2016 Traffic Noise Policy. The noise analysis included an assessment of future project noise levels to determine the need for mitigation.

16. Staff Experience

	Name	Justin Maderia, PE, PTOE, PTP			MPR 5
	Firm	Arcadis	Years of Relevant Experience with this Employer	18	
	Title	Senior Transportation Engineer	Years of Relevant Experience with Other Employer(s)	0	
	Degree(s)/Years/Specialization				
Active Registration Number /State/Expiration Date		MS / 2005 / Civil Engineering; BS / 2004 / Civil Engineering			
Year Registered		2013	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Noise/Air Quality Analysis Brief Description: Justin's experience in transportation engineering includes safety studies, feasibility studies, traffic flow/demand modeling, spot speed studies, micro-simulation modeling, and traffic noise modeling. His experience with safety studies includes crash review and analysis, development of safety improvements and countermeasures, and application of Highway Safety Manual (HSM) methodologies to evaluate the effectiveness of safety improvements. He has also served as the project engineer responsible for the design of highway projects. Specific design experience includes maintenance of traffic design, traffic control plan design, roadway geometry, horizontal and vertical alignment design. His software program experience includes IHSDM, AutoCAD, MicroStation, Geopak, AutoTurn, SignCAD, GIS, TNM, CORSIM, VISSIM, HCS and all Microsoft Office Applications. Mr. Maderia has completed LADOTD Traffic Engineering Process and Report Training.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
06/13 – 03/16	US-11 Environmental Assessment (EA) - Traffic & Noise, Louisiana Department of Transportation & Development; Slidell, LA. Transportation Engineer. Responsible for developing existing and future traffic volumes, growth rate estimation, alternative evaluation, preliminary traffic signal timing analysis, and crash analysis. This project includes replacement of the bridge over the Norfolk Southern Railroad and widening the roadway from a two-lane undivided to a four-lane divided roadway for the segment of US 11 between I-12 and US 190 (Gause Boulevard) in Slidell. The project study area is comprised of Synchro analysis for six signalized and four unsignalized intersections.				
12/11 – 07/13	Chef Menteur Bridge and Approaches Route US 90 Environmental Assessment (EA), Louisiana Department of Transportation & Development; Orleans Parish, LA. Design Engineer. This project involves the Environmental Assessment completion for proposed improvements to the Chef Menteur Bridge and Approaches. The proposed project includes replacing the existing Chef Menteur Pass Bridge and Approaches, located in Orleans Parish on U.S. Highway 90. The project calls for a replacement bridge with two 12-foot-wide travel lanes and 10-foot-wide shoulders on each side. The logical termini were approved by the Federal Highway Administration (FHWA). The study area extends along US 90 from US 11 to Louisiana Highway 433. The study is conducted in accordance with policies and procedures prescribed in the Highway Traffic Noise Policy and Guidance issued by FHWA in 1995 and the LADOTD's statewide policy, titled Department of Transportation and Development Highway Noise Policy. Worked as a design engineer conducting traffic noise impact assessment portion of the study.				

16. Staff Experience

08/12 – 05/13	I-210 Cove Lane/Nelson Road Interchange Improvements Environmental Assessment (EA), Louisiana Department of Transportation & Development; Calcasieu Parish, LA. Design Engineer. This project involved the Environmental Assessment completion for proposed improvements to I-210 between Cove Lane and Nelson Road. The project included improvements along I-210 and the adjoining local street network. The study was conducted in accordance with policies and procedures prescribed in the Highway Traffic Noise Policy and Guidance, issued by FHWA in 1995, and the LADOTD's statewide policy, titled Department of Transportation and Development Highway Noise Policy. Worked as a design engineer, conducting traffic noise impact assessment portion of the study.
01/06-01/10	Noise Impact Assessment for Revive285 - Environmental Impact Statement (EIS), Georgia Department of Transportation, GA. Design Engineer. This project studies existing conditions and eight alternatives for a 12-mile corridor along Interstate 285 between Interstate 75 and Interstate 85. It includes managed lanes, Bus Rapid Transit (BRT) and Light Rail Transit (LRT) system. The study area has a mixture of residential, apartment, commercial and office land uses. The study was conducted in accordance with policies and procedures prescribed in Highway Traffic Noise Policy and Guidance issued by FHWA in 1995 and GDOT's statewide policy, titled Highway Noise Abatement Policy for Federal-Aid Projects. Conducted the traffic noise impact assessment, safety study including crash analysis, conceptual signing and pavement marking plans, and Synchro analysis at all ramp termini.
03/12-03/14	Noise Impact Assessment for SR 144 Widening from CR 100/Timber Trail to CR 154/Belfast Keller Road, GDOT, Bryan County, GA. Design Engineer. This project proposes to widen SR 144 to provide an urban four-lane section of roadway with a grass median, 4-foot bike lanes, and 12-foot shoulders. The project is approximately 5 miles in length. The study was conducted in accordance with policies and procedures prescribed in the Highway Traffic Noise Policy and Guidance issued by FHWA in 1995 and the GDOT's statewide policy, titled Highway Noise Abatement Policy for Federal-Aid Projects. Worked as a design engineer, conducting traffic noise impact assessment portion of the study.
06/11-06/12	Noise Impact Assessment for Busbee-Frey Connector, GDOT, Cobb County, GA. Design Engineer. This 0.5-mile-long project involves adding a 0.5-mile new connector roadway over I-75 between Frey Road and Busbee Drive over I-75 in Cobb County. The proposed roadway has two 12-foot travel lanes in each direction, a 20-foot raised concrete median, 12-foot-wide right- and left-turn lanes at Frey Road and Busbee Drive, and 17.5-foot shoulders consisting of 10-foot sidewalks, a 2-foot grass strip, and 30-inch curb and gutter. This study was conducted in accordance with policies and procedures prescribed in the Highway Traffic Noise Policy and Guidance issued by FHWA in 1995 and GDOT's statewide policy, titled Highway Noise Abatement Policy for Federal-Aid Projects. Worked as a design engineer, conducting traffic noise impact assessment portion of the study.
05/13-12/15	Noise Impact Assessment for Panola Road Corridor Improvements, GDOT, DeKalb County, GA. Design Engineer. Panola Road is an urban principal arterial that provides access to both residential and commercial properties and to Interstate 20 in western DeKalb County. The arterial improvement project, includes widening the existing roadway and constructing bicycle lanes, sidewalks, and medians along the 5.5-mile long widened roadway. The study was conducted in accordance with policies and procedures prescribed in Highway Traffic Noise Policy and Guidance issued by FHWA in 1995 and GDOT's statewide policy, titled Highway Noise Abatement Policy for Federal-Aid Projects. As design engineer, conducted the traffic noise impact assessment portion of the study.
5/09 – 05/10	Noise Barrier Construction CUY-71-16.40 Project, Ohio Department of Transportation, Cuyahoga County, OH. Design Engineer. The project consisted of a 2-mile noise barrier study and construction project extending from West 25 to Fulton Avenue along I-71 in Cuyahoga County. Project entailed field survey, noise analysis, barrier layout and design, estimation and public involvement. An innovative feature of the project was mounting standard concrete noise wall panels atop an existing retaining wall. This solution avoided additional right-of way-impacts to adjacent property owners and reductions to the collector- distributor roadway shoulder. Served as the design engineer responsible for the noise barrier design.

16. Staff Experience

	Name		Fang Yang		MPR 6	
	Firm		AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	30
	Title		Air Quality		Years of Relevant Experience with Other Employer(s)	6
	Degree(s)/Years/Specialization		MS/1988/Atmospheric Science; BS/1982/Physics			
Active Registration Number /State/Expiration Date		N/A				
Year Registered	N/A	Discipline	Lifecycle GHG Emissions Modeling			
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Noise/Air Quality Analysis Brief Description: Fang will support the compliance with environmental standards and to mitigate impacts on the surrounding community and ecosystem. His experience includes developing environmental air and noise special studies for a variety of projects.				
Experience (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
01/22-ongoing		Louisiana DOTD I-49 Lafayette Connector SEIS: Leading comprehensive air quality including quantitative MSAT and GHG emissions impact analyses using MOVES and regional transportation model network/database for three alternatives per FHWA NEPA guidance.				
01/24-10/24		Michigan DOT M-37 Improvement EA: Led comprehensive cumulative lifespan GHG emissions/social cost of GHGs/climate change impact analyses using MOVES and ICE modeling tools for four alternatives per 2023 CEQ NEPA guidance.				
01/21-02/24		Equinor/New York City Economic Development Corporation/Bureau of Ocean Energy Management South Brooklyn Marine Terminal Supporting Empire Wind Farms 1 and 2 EA/EIS: Led direct and indirect upstream GHG emissions modeling analysis and a subsequent comprehensive GHG and climate change impact analysis to meet both Federal and State most recent rigorous policy requirements.				
05/20-06/23		USPS Next Generation Delivery Vehicle (NGDV) FEIS/SFEIS: Led lifecycle GHG emissions and social cost of GHG modeling using MOVES model, Lifecycle GREET model, and eGRID database to determine GHG and cumulative social cost benefit for various fleet upgrade options.				
04/20-10/23		GulfLink Deep Port EIS: Led direct and indirect upstream and downstream GHG and social cost of GHG modeling analysis using EPA MOVES and Department of Energy Explore tool and database.				
06/20-ongoing		New Jersey Turnpike Exit 1-4 Improvement EIS: Leading air quality including GHG emissions/climate change impact modeling analysis for this 36-mile corridor regional significant transportation improvement project.				

16. Staff Experience

	Name	Jonathan Vavasseur, PWS			MPR 7, 8
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	6	
	Title	Senior Project Biologist	Years of Relevant Experience with Other Employer(s)	16	
	Degree(s)/Years/Specialization	BS/2002/Wildlife and Fisheries Sciences			
Active Registration Number /State/Expiration Date		PWS: 3029/LA/12-31-2027			
Year Registered	2018	Discipline	Certified Professional Wetland Scientist (PWS)		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Wetlands/Threatened and Endangered Species / Regulatory Brief Description: Jonathan is a certified Professional Wetland Scientist with over 17 years of experience in environmental, regulatory, and ecological consulting with a strong concentration in wetland ecology. He has served as the team leader and field coordinator for environmental project teams. He has led various projects that range from wetland delineations, T&E surveys, biological assessments, and environmental site assessments throughout the southeast U.S. for federal and state agencies, municipalities, and private clients. Examples of his experience are shown below.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
07/24-11/24	DOTD, SPN H.004273.5, I-49, Lafayette Connector Project, Lafayette, LA: Provided guidance and support for bridge and culvert surveys for threatened and endangered bat species in support of the I-49 Connector Project SEIS for DOTD. Technical reporting and agency coordination.				
09/20-present	Feasibility Study and Report/TEPR, College Drive, City of Baton Rouge/Parish of East Baton Rouge, Baton Rouge, LA. Senior Project Biologist/Permitting Specialist. Conducted wetland delineations and T&E Surveys as well as Section 404/10 Permitting for all roadway segments within the proposed improvement corridors.				
07/20-09/20	City of Baton Rouge, Parish of East Baton Rouge, Jones Creek Road Extension Project. Senior Project Biologist/Permitting Specialist. Conducted wetland delineation and T&E Surveys as well as Section 404/10 USACE Permitting.				
06/19-12/19	Department of the Airforce, Barksdale Air Force Base East Gate Relocation. Senior Project Biologist. Conducted Wetland Delineations threatened and endangered consultations for the proposed gate relocation and new roadway.				

16. Staff Experience

08/15-08/18	DOTD Environmental Impact Specialist. Biologist. DCL for FHWA Funded Highway Projects, State of Louisiana Environmental Impact Specialist (Biologist) responsible for coordinating and overseeing all wetland projects for DOTD. Lead biologist responsible for coordinating all linear and tract wetland delineations and technical reporting for numerous federally funded highway projects all over the state of Louisiana. Work included serving as the environmental coordinator, coordinating and conducting wetland and threatened and endangered field surveys, NEPA processing for federally funded highway projects, as well as technical reporting for state highway projects.
07/22-present	EDP Renewables North America, LLC/Ragsdale Solar Project, Madison County, MS. Project Manager and Project Biologist responsible for overseen all aspects of project management, conducting wetland field surveys, threatened and endangered field surveys, nesting bird surveys, and environmental compliance monitoring for the proposed solar farm project.
12/21-12/23	EDR Renewables North America, LLC/Crooked Lake Solar Project, Mississippi County, AR. Lead Field Biologist responsible for coordinating and conducting all wetland delineation, threatened and endangered field surveys, and raptor nesting surveys for the proposed 2,625-acre solar farm site.
05/21-present	Air Products and Chemicals, LLC/Louisiana Clean Energy Complex, Ascension, Assumption, Livingston, St. James, and St. John Parishes, LA. Senior Project Biologist/Permitting Lead responsible for leading wetland and threatened and endangered field survey efforts as well as permitting lead responsible for coordinating all federal and state resource permitting efforts
02/19-08/20	NASJRB New Orleans, LA. Project Manager and Senior project biologist responsible for conducting wetland and threatened and endangered species field surveys, technical reporting and NEPA documentation for a 500+ acre proposed vegetation clearing project for the Department of Defense.
07/18-06/19	Wanhua Chemical US Holdings. Project Manager and Senior Project Biologist responsible for conducting wetland delineations and threatened and endangered species surveys for 5 sites in St. James Parish, LA. Head permitting specialist responsible for obtaining USACE Section 404/10 permits and LADNR Coastal Use Permitting (CUP). Work included conducting wetland and T&E species field surveys and reporting as well completing and submitting all required federal and state regulatory permits.

16. Staff Experience

	Name	Jason Morrell, PWS		MPR 7
	Firm	Arcadis	Years of Relevant Experience with this Employer	10
	Title	Principal NEPA Planner	Years of Relevant Experience with Other Employer(s)	13
	Degree(s)/Years/Specialization	BS/1999/Agriculture/Environmental Economics & Management, University of Georgia		
Active Registration Number /State/Expiration Date		Professional Wetland Scientist – #2319 / USA / Exp. 04/2028		
Year Registered	2013	Discipline	Wetland Science	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Alternative Corridor Evaluation/Screening/Wetlands/NEPA Documentation/Regulatory Brief Description: Jason has over 20 years of experience in environmental planning and ecology in the southeastern U.S. Prior to joining Arcadis, he served as a NEPA Planner and Ecologist with the Georgia Department of Transportation (GDOT) evaluating environmental effects and completing permitting and environmental documentation for transportation projects. His area of expertise includes wetland studies, biological assessment, and environmental permitting, with a focus on Clean Water Act Section 404 permitting and Section 7 Endangered Species Act (ESA) consultation. He is experienced working with the Federal Highway Administration (FHWA), US Army Corps of Engineers (USACE), US Fish & Wildlife Service (USFWS), and state resource agencies. Since 2011, Jason has worked almost exclusively on transportation projects and is an active member of the Transportation Research Board Committee on Environmental Analysis and Ecology (AEP70).		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/17 – ongoing	I-49 South (Ricohoc to Berwick) SEIS, LADOTD, St. Mary Parish, LA. Project Manager and Ecology Lead for a Supplemental Environmental Impact Statement for the conversion of a 10-mile segment of US 90 to I-49 from Ricohoc to Berwick in St. Mary Parish. Responsibilities include scope and labor hour negotiations during initial project setup, as well as managing the schedule and budget for multiple phases of project delivery including the traffic, line and grade, and environmental studies.			
04/21 – ongoing	Rural Bridge Replacement Initiative Phase II – Districts 02, 03, 07, 61, and 62, LADOTD, Multiple Parishes, LA. Project Manager and Environmental Lead for 16 state projects involving replacement of 29 state highway bridges. The environmental scope of services for the projects consists of Solicitation of Views, Wetland Studies, Programmatic Categorical Exclusion Checklists, and permitting including USACE Nationwide Permits (NWP) and Louisiana Department of Natural Resources Coastal Use permits.			
04/16 – 05/23	Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA. Ecology Lead for wetland delineation and protected species habitat assessment along Range Road in the vicinity of the I-12 interchange for the proposed interchange improvement project. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, in support of the NEPA Environmental Assessment.			

16. Staff Experience

06/22–ongoing	Environmental Support Services - Ecology IDIQ Contract, GDOT, Statewide, GA. Project Manager. Responsible for contract management, staffing, and program delivery. Manage a team of staff and subconsultants providing 19 embedded (Support Services) ecologist positions with the GDOT Office of Environmental Services (OES). Also manage a team of ecologists and subconsultants delivering Ecology Initiatives including training media, guidance documents, report templates, programmatic agency agreements and consultants, and on-call services to the GDOT Ecology Section. Provide innovative digital solutions to improve GDOT program delivery including workload management, conflict of interest, and document tracking dashboards.
09/19–06/22	Environmental Support Services IDIQ Contract, GDOT, Statewide, GA. Project Manager and Ecology Lead. Responsible for management of embedded ecology and NEPA staff managing environmental studies on behalf of GDOT, including review of consultant documents. Design and develop ecology initiatives for the GDOT OES including guidebooks and toolkits to update the Environmental Procedures Manual, training materials for contractor prequalification, applications to streamline National Marine Fisheries Service Section 7 ESA and Essential Fish Habitat consultations, and other research initiatives.
07/14–07/19	Statewide Ecological Services IDIQ Contract GDOT, Statewide, GA. Deputy Project Manager and Ecology Lead. Responsible for managing embedded ecologists assigned management of ecology studies, permitting, and biological assessment for GDOT projects. Negotiated a menu of services task order for on-call environmental studies providing the client the flexibility to complete tasks quickly to meet project delivery schedules. Managed preparation and provided technical review of supporting NEPA documentation for federally funded infrastructure development and improvement projects. Developed ecology toolkits, guidance documents, and templates for GDOT use and publication in collaboration with regulatory agencies and GDOT staff. Managed a research project evaluating the effectiveness of migratory bird mitigation measures on transportation projects and providing recommendations to GDOT for best management practices.
12/15–11/18	Railroad Bridge Replacements, Confidential Class I Railroad Client, LA and TX. Lead Ecologist. Responsible for wetland delineation and protected species habitat assessments for replacement of two structurally deficient railroad bridges. Completed wetland findings report, including required exhibits, and calculated impacts to streams and wetlands for bridge replacements. Coordinated with design for impact avoidance and minimization and provided technical review of a NWP 14 Pre-Construction Notification (PCN), including permit sketches, submitted to the USACE Fort Worth District.
10/15–04/18	North Bayou Black Drive/Hanson Canal Bridge (OSBP) – LADOTD, Terrebonne Parish, LA. Ecologist. Completed a technical review of the Biological Resources and Wetland Findings Report, including required exhibits, prepared for replacement of an off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.
07/16–03/18	Bayou Sara Streambank Restoration, West Feliciana Parish Department of Public Works, West Feliciana Parish, LA. Ecologist. Project involved stabilizing the streambank along approximately 3,600 feet along Bayou Sara, where severe erosion is impacting the Town of St. Francisville's Wastewater Treatment Facility, pond levees, and the Parish's only access road (Ferdinand Street) to the Mississippi River. Completed a wetland delineation and protected species habitat assessment within the area proposed for bank stabilization, as well as adjacent staging and access areas. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, and NWP 13 PCN, including permit sketches for bank stabilization for which USACE authorization was successfully obtained.

16. Staff Experience



Name		Bonnie Porter			MPR 8	
Firm		AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	1	
Title		Ecologist		Years of Relevant Experience with Other Employer(s)	9	
Degree(s)/Specialization		BS/2014/Renewable Natural Resources				
Registration Number Expiration Date		N/A				
	N/A	Discipline	Threatened and Endangered Species			
Degree(s)/Brief Description of Responsibilities		Contract Role: Threatened & Endangered Species Brief Description: Bonnie is an ecologist with a decade of experience in environmental compliance, permitting, and ecological field surveys in both the public and private sectors. She has worked on various field projects including threatened and endangered (T&E) species surveys, habitat assessments, wetland delineations, and environmental site assessments across the eastern US. She has managed data, coordinated field staff, consulted agencies, and completed reporting requirements for T&E surveys since 2015.				
Experience (mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).					
	DOTD, SPN H.004273.5, I-49, Lafayette Connector Project, Lafayette, LA: Conducted bridge and culvert surveys for threatened and endangered bat species in support of the I-49 Connector Project SEIS for DOTD. Technical reporting and agency coordination.					
Ongoing	EDPR Site Characterization Studies – EDP Renewables, Pearl River, Holmes, and Newton Counties, MS: Environmental Impact and Permitting Specialist. Researched and drafted three detailed site characterization studies and permit matrices for prospective solar farm locations in Mississippi. Conducted field visits to validate desktop findings.					
	AEP Projects, WV: Threatened and endangered specialist responsible developing study plan, consulting resource agencies, and conducting presence- absence mist-net surveys for threatened and endangered bat species at plant facilities and electrical infrastructure projects in West Virginia. Man-aged field work and data. Completed technical reports detailing findings.					
	Oil Terminal Project, TX: Threatened and endangered specialist responsible for assessing proposed offshore oil terminal project’s impacts on aquatic reptile and mammal species, including T&E species, in support of Environmental Assessment.					
	Hydroelectric Project, SC: Threatened and endangered specialist responsible conducting presence-absence mist-net surveys and acoustic surveys for T&E bat species at a hydroelectric plant facility in South Carolina. Managed field work and data. Completed technical reports detailing findings.					

16. Staff Experience

9/17–5/21	FEMA Projects, LA: Environmental protection specialist at FEMA responsible for reviewing environmental impacts, including T&E impacts, of disaster recovery and hazard mitigation projects in LA. Desktop reviews of threatened and endangered impacts, site visits, habitat assessments, consulted resource agencies, wrote biological assessments, permitting, and created NEPA/internal documentation.
5/16-8/16, 5/17–8/17	Atlantic Coast Pipeline, WV, VA, NC: Threatened and endangered technician conducting summer surveys for T&E bat species on 600-mile gas pipeline. Trained acoustic technicians, led acoustic surveys, served as technician on mist-net surveys.
4/16 - 8/16	WMA Herpetofauna Census, LA and MS: Conducted reptile and amphibian surveys at four wildlife management areas in LA and MS with a focus on T&E species and snake fungal disease.
5/15–8/15	Northeast Energy Direct (NED) Pipeline, PA, NY, NH, and MA: Trained and led a team of field technicians on acoustic surveys for T&E bats on the route of a 188 mile gas pipeline. Managed staffing and data, coordinated with other field teams.
5/14–8/14	Sandpiper/Line 3 Pipelines, ND, WI, MN. Technician for acoustic and mist-net surveys for threatened and endangered bats on the route of two oil pipelines in the Midwest.
5/13–8/13	LSU Bat Lab, LA. Bat survey technician for LSU bat lab. Net capture and acoustic surveys for bats along Louisiana highways, including threatened and endangered species.

16. Staff Experience

	Name	Shelley Hartsfield		MPR 9,11
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	18
	Title	Archaeology & Historic Resource	Years of Relevant Experience with Other Employer(s)	0
	Degree(s)/Years/Specialization	MA/2012/Anthropology; BS/2001/Anthropology		
Active Registration Number /State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Cultural Resources Brief Description: Shelley is a Principal Investigator for Archaeology (36 CFR 61) and a Certified Project Manager for AECOM's Environmental Business Line, with over 18 years of experience in Cultural Resource Management, conducting all phases of archaeological projects in the field, laboratory, and office. During her career, she has conducted archaeological investigations for hundreds of miles of linear infrastructure and thousands of acres for renewable energy projects, which include transmission lines, pipelines, rail lines, roadways, solar farms, and wind farms, as well as processed tens of thousands of artifacts for curatorial facilities in Texas, Oklahoma, Louisiana, and Kansas. She has successfully completed the training class from the Advisory Council on Historic Preservation titled <i>What is Section 106</i>.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
06/24-10/24	United States Department of Agriculture, Climate Smart Program. Acadia, Avoyelles, Jefferson Davis, St. Landy, St. Martin, and Vermilion Parishes, LA: Principal Investigator/Primary Contact. Shelley performed and oversaw the background research and recommendations for the Environmental Compliance Services for the Implementation of Pilot Projects Developed under the Partnership for Climate-Smart Commodities Program.			
09/20-1/21	College Drive Perkins Road to I-10, City-Parish Project No. 19-EN-HC-0033, Baton Rouge, East Baton Rouge Parish, LA: Principal Investigator. Shelley conducted the background study and coordination with the Louisiana State Historic Preservation Office regarding archaeological and historic resources for the undertaking.			
06/20-08/20	Phase I Cultural Resources Investigation of the Proposed Jones Creek Road Extension, Jefferson Highway to Airline Highway, City Parish Project N. 12-CS-HC_0060, City of Baton Rouge, East Baton Rouge Parish, LA: Principal Investigator. Shelley oversaw the archaeological field efforts and is the primary author of the Phase I investigation report.			
06/13-08/23	Phase I Cultural Resources Investigations of the Proposed Jones Creek Road Extension, Tiger Bend Road to Airline Highway, City Parish Project No. 12-CS-HC_0060, City of Baton Rouge, East Baton Rouge Parish, LA: Principal Investigator. Shelley oversaw the archaeological field efforts and is the primary author of the Phase I investigation report.			

16. Staff Experience

11/20-02/21	Phase I Cultural Resources Survey Report for the Port of South Louisiana Globalplex Multi-Modal Connections Project, Reserve, St. John the Baptist Parish, LA: Principal Investigator. Shelley oversaw the archaeological field efforts and is the secondary author of the Phase I investigation report.
06/20-07/20	Phase I Cultural Resources Investigation of the East Gate Relocation Project, Barksdale Air Force Base, Bossier Parish, LA: Principal Investigator. Shelley oversaw the archaeological field effort, was the author of the Phase I investigation report, aided in the contribution for cultural resources to the Environmental Assessment, and conducted the preparation and submission of all records produced from the investigation, submitted to the curatorial facility at Barksdale Air Force Base.
10/15-07/20	Dallas to Houston High Speed Rail Archaeological Resources Survey, Federal Railroad Administration, Dallas, Ellis, Navarro, Freestone, Limestone, Leon, Madison, Grimes, Waller, and Harris Counties, TX: Project Archaeologist. Shelley coordinated the archaeological field effort, aided in the production of the Environmental Impact Statement contribution for cultural resources, produced the Programmatic Agreement for the project, and has coordinated with the lead federal agency and the Texas Historical Commission in support of compliance with Section 106 of the National Historic Preservation Act (NHPA), the Antiquities Code of Texas, and NEPA, as well as lead author and technical reviewer of the archaeological reports produced for this project.

16. Staff Experience

	Name	Lauran Switzer, MA, RPA, CPM			MPR 9, 11
	Firm	Arcadis	Years of Relevant Experience with this Employer	4.5	
	Title	Principal Planner	Years of Relevant Experience with Other Employer(s)	17	
Degree(s)/Years/Specialization		MA/2009/Anthropology; BS/2004/Anthropology			
Active Registration Number /State/Expiration Date		Register of Professional Archaeologists (RPA): #16637/January (renews annually)			
Year Registered	2009	Discipline	Archaeology		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Cultural Resources Brief Description: Lauran is a qualified archaeologist (36 CFR 61) with 18 years of experience in the field of cultural resources management. She is a project manager and trained prehistoric and historical archaeologist. She has worked on a wide range of projects in rural and urban contexts throughout the U.S. Her professional experience includes National Environmental Policy Act (NEPA) planning, transportation planning and design-build, Section 106 agreement document development, tribal consultation, field management, archival research, laboratory management, state/federal permit compliance, environmental compliance inspection, artifact analysis and curation, technical and research report writing, historical surveys, archaeological assessments, teaching, and public outreach. She has experience in all facets of NEPA documentation and technical report development and production, including historic background research, writing historic context statements, and crafting National Register of Historic Places (NRHP) eligibility evaluation statements. She has successfully completed the Advisory Council on Historic Preservation's What is Section 106 Training.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
01/25-present.	(Gateway) Hudson River Tunnel Project in Manhattan, Federal Railroad Administration (FRA), New York and Hoboken, NJ. Cultural Resources Lead. Responsible for drafting cultural resources assessment of effects to support several NEPA FEIS/ROD Reevaluations for proposed project modifications. Works with a large project team under tight deadlines for this complex deep bored tunnel design-build project.				
11/20-2/22	I-85 Widening Phase 3 from North of SR 11 to North of U.S. 441, Georgia Department of Transportation (GDOT), Gwinnett County, GA. Environmental Manager. Leads NEPA documentation for this variable scope 13-mile interior highway widening design build project. The project has an aggressive schedule, therefore expedited document preparation time and agency reviews is critical. Conducts weekly team check-ins / status updates for all the disciplines to stay on track for environmental documentation approval by end of June 2021 when project is scheduled for letting.				

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12/21-present	Project Adventure. GDOT, Morgan, Walton, and Newton Counties, GA. Environmental Manager and NEPA Lead. Responsible for leading the environmental team on three fast-paced, complex design build projects. Two of the projects are state funded and subject to GEPA review. The third project is a new interchange funded by FHWA and will be a NEPA Environmental Assessment (EA). Currently drafting the EA and managing a very compressed schedule.
10/20-present	GDOT Environmental Services Region 3 On-Call, GDOT, Districts 5 & 7, GA. Deputy Environmental Project Manager. Assisting environmental team with task orders for Region 3 on-call services in support of preparation of environmental studies, reports, and documents. Scope includes compiling the results of environmental studies into documents that are compliant with NEPA or Georgia Environmental Policy Act (GEPA); conduct QA reviews of environmental studies and NEPA or GEPA documents, and plan and conduct public outreach on behalf of GDOT in accordance with GDOT's Environmental Procedures Manual, Published Environmental Guidance, and the Georgia Department of Transportation Plan Development Process.
11/19-10/20	Mega Programs Cultural Resources Management Support, Washington State DOT (WSDOT), King County, WA. Embedded Cultural Resource Specialist. Section 106 Lead and project support when WSDOT cultural resource manager was on medical leave to coordinate cultural resource needs for three programs that included three to five design-build projects each, including SR 520 Program, I-405 Program, and Alaskan Way Viaduct Replacement Program. Tasks included tracking Section 106 commitments, served as PI for cultural resources surveys and technical reports, tribal coordination and consultation, reviewing project plans for Section 106 concerns, APE letters, and status of deliverables and SHPO reviews at weekly project delivery meetings.
06/18-10/20	SR 167 Auxiliary Lane and Tolling Improvements, WSDOT/HNTB, King County, WA. Principal Investigator/Project Manager. Responsible for cultural resources survey and lead report author for design-build project that involves constructing an auxiliary lane and sign bridges as well as other tolling and lane improvements where SR 167 intersections I-405 in Kent.
04/18-10/20	I-405 Brickyard Inline Transit Station, WSDOT/HNTB, King County, WA. Principal Investigator/Project Manager. Responsible for coordination of design changes with the team and State Historical Preservation Office (SHPO) for Section 106, PI for cultural resources survey and lead report author for design-build project that involves constructing a pedestrian bridge and inline transit station for Sound Transit in addition to tolling upgrades and lane improvements along the I-405 corridor.
06/17-10/20	I-405 Ripley Lane Downstream Conveyance, WSDOT/HNTB, King County, WA. Principal Investigator/Project Manager. Responsible for cultural resources survey and lead report author for design-build project that would reconstruct existing private conveyance system west of I-405 to restore the stream connection for two fish barrier corrections to be constructed as part of the I-405 Renton to Bellevue Widening and Express Toll Lanes (RTB project).
06/17-10/20	I-5 / Marine View Drive to SR 528 Peak Use Shoulder Lanes, WSDOT/HNTB, King County, WA. Project Manager. Authored Archaeological Monitoring Plan (AMP) for design-build interchange improvement. Drafted and finalized AMP as well as coordinated the Steamboat Springs mitigation area survey.
03/12-2/16	SR 99 Alaskan Way Viaduct Replacement, WSDOT, Seattle, WA. Archaeological Field Lead/Project Manager. Served as field lead for 3.5 years on this series of projects while employed by WSDOT. Responsible for field coordination/scheduling and archaeological monitoring under Section 106 MOA for Alaskan Way Viaduct Replacement (AWVRP) that included one design-build project (SR-99 Tunnel Project or Seattle Tunnel) and three design-bid-build projects that support the AWVRP (Holgate to King Stages 2 and 3, and North / South Access). Duties included drafting contract specifications, reviewing consultant invoices, and directly coordinating/scheduling monitoring support on various projects, as well as ensured contractor followed WSDOT specs outlined in the contracts. Adapted to quickly changing schedules, often worked night/weekend shifts, and coordinated unanticipated discovery response 24/7. Assisted in QV environmental inspection on WSDOT construction projects.

16. Staff Experience

	Name	Tanya McDougall		MPR 10
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	7
	Title	Cultural Resources - Historic	Years of Relevant Experience with Other Employer(s)	9
Degree(s)/Years/Specialization		MS/2008/Historic Preservation; BS/2005/History; Historic Preservation		
Active Registration Number /State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Cultural Resources Brief Description: Tanya has over 16 years of experience in Section 106/HABS/HAERS and in managing and completing cultural resources investigations for state and federal agencies and private entities throughout the United States. She is a Cultural Resources Team Lead and meets the Secretary of the Interior's qualifications (36 CFR Part 61; 48 Fed. Reg. 44738) in architectural history and history. She is well acquainted with coordinating cultural resources surveys for linear and aerial projects, as well as coordinating fieldwork for archeological and historic resources and research of primary source materials to inform National Register of Historic Places evaluations. Through her experience, Tanya has been the primary author for a variety of cultural resources projects and has successfully completed over 22 mitigation projects for historic properties.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
06/14-04/25	Cultural Resources Investigation for the Texas Central Railroad Dallas to Houston High-Speed Rail Project Environmental Impact Statement. Cultural Resources Lead. Ms. McDougall served as the Cultural Resources Lead and Senior Architectural Historian for the project and coordinated the documentation and evaluation of cultural resources with the lead federal agency and the SHPO in compliance with Section 106 of the NHPA and in support of the Environmental Impact Statement prepared for the project. She has been the primary author of over 20 technical reports produced for the project, as well as for the cultural resources section of the EIS and the resulting Programmatic Agreement. Through Tanya's efforts, the team successfully coordinated the NRHP eligibility of over 1,000 cultural resources with state and federal agencies and executed the Programmatic Agreement in July 2020.			
02/20-11/23	Federal Transit Administration, Orange Line High Capacity Rail, Austin, TX. Cultural Resources Lead. Tanya has led the cultural resources investigations for historic aboveground resources for the 20-mile rail project. She has coordinated the research, field survey, and reporting for over 800 aboveground historic resources for NRHP eligibility. Tanya has also coordinated public meetings and the development of a Programmatic Agreement between the lead federal agency, State Historic Preservation Office (SHPO), and other consulting parties.			

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02/14-08/14	Dallas Area Rapid Transit (DART), Historic American Engineering Record (HAER) Documentation for the Dallas Quadrangular Warren Through Truss Bridge, Dallas, TX. Senior Architectural Historian conducted archival research on the historic bridge and prepared a HAER Level II equivalent document for the resource, which included preparing archival quality black and white photographs, a detailed description of the resource, and an in-depth historic context. The documentation served as mitigation for the removal of the bridge from rail service and was accepted by the THC in 2014.
02/13-05/13	Oklahoma Department of Transportation (ODOT), HAER Documentation of the Bird Creek Bridge along Route 66 near Catoosa, Rogers County, OK. Senior Architectural Historian conducted intensive level archival research for the historic Route 66 Bird Creek Bridge at several repositories, including the Oklahoma State Archives, Oklahoma Historical Society archives, Oklahoma State University special archives, Rogers County Clerk, and local libraries. The primary and secondary source information collected during the archival search was used to develop a resource specific historic context, discussing the structures association and significance within the larger Route 66 corridor. In addition, Tanya prepared a detailed description of the bridge and its surroundings. The HAER documentation prepared was used by ODOT as mitigation for the removal of the structure from vehicular traffic.
05/12-02/13	ODOT, HAER Documentation of 9 ODOT Bridges, Bryan, Logan, Payne, Sequoya, Okfuskee, Craig, Creek, and Pittsburg counties, OK. Senior Architectural Historian performed intensive level archival research for 9 bridges in various counties in Oklahoma. Repositories visited included the County Clerk's Office for each county, local libraries and archives, Oklahoma State Archives, and Oklahoma Historical Society archives. Archival quality digital photography that meets the National Park Service standards for digital photography was taken of one of the two Bryan County bridges documented during this project. One HAER was prepared for each bridge, which served as mitigation for the removal of the structures from vehicular traffic. ODOT accepted the documentation in 2013 and posted the reports on their website for public viewing.
10/11-04/12	ODOT, HAER Documentation of 5 ODOT Bridges, Osage, Pawnee, Oklahoma, Jackson, and Harmon counties, OK. Architectural Historian prepared HAER reports for five bridges in various counties in Oklahoma. Intensive level research for each bridge was conducted at various repositories in Oklahoma. Photo documentation of each bridge was undertaken to record the current conditions of the structure within its environment. The documentation was completed for ODOT and served as mitigation for the demolition of the structures. The documentation was accepted by ODOT in 2012 and was posted on their website for public viewing.
05/08-006/09	Dallas Area Rapid Transit (DART), HAER Documentation of the Evans Road Rock Structure, San Antonio, Bexar County, TX. Tanya prepared the HAER documentation for the Evans Road rock structure in San Antonio, Texas. The document included archival black and white photographs, historic context, and detailed architectural description. The document served as mitigation for its removal from vehicular traffic. The documentation was by the National Park service in 2009.
01/08-07/09	U.S. Army Corps of Engineers, Fort Worth District, Mitigation of Architectural Documentation Central City Portion of the Trinity River Master Plan, Fort Worth, TX. Architectural Historian assisted in preparing HABS-like documentation of approximately 20 structures in the historic North Fort Worth business community, as well as assisting in completion of National Register nominations for 12 commercial buildings dating to the 1920s and 1930s.

16. Staff Experience

	Name	George Rounds		MPR 10
	Firm	Arcadis	Years of Relevant Experience with this Employer	2
	Title	Architectural Historian	Years of Relevant Experience with Other Employer(s)	11
Degree(s)/Years/Specialization		MHP/2014/Heritage Preservation BA / 2008/History, Minor in Religious Studies		
Active Registration Number /State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Cultural Resources Brief Description: George is a Secretary of the Interior qualified architectural historian (36 CFR 61) with over 11 years of experience in the field of cultural resources management and has worked on a wide range of projects in rural and urban contexts throughout the U.S. He has extensive Section 106 experience conducting historical research, field surveys, historic resource evaluation, and assessment of effects determinations in support of a variety of transportation projects. He also is an experienced Geographic Information Science technician and has drafted National Register of Historic Places (NRHP) eligibility evaluation statements.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
8/23-ongoing	I-285 @ I-20 West Side Interchange Reconstruction. GDOT, Fulton and Cobb Counties, GA: As part of the design-build team, George serves as the lead historian for this Major Mobility Investment Program design-build project that entails the reconfiguration of the I-285 and I-20 interchange west of downtown Atlanta. George's responsibilities include providing technical consultation, reviewing design plans, and completion of change narrative documentation, identifying physical, visual, and auditory impacts to cultural resources in support of environmental reevaluations.			
5/24-ongoing	State Route 42 at Norfolk Southern #718418R 5 Miles South of McDonough, Henry County, GA: George supports Section 106 compliance as the lead historian on the post-let General Engineering Consultant team for this bridge replacement project. As the lead historian, he validated previous reporting, updated resource identification efforts, engaged with design team staff to determine physical, visual, and auditory impacts to cultural resources, and produced required compliance documentation within an aggressive project schedule.			

16. Staff Experience

1/24-ongoing	State Route 360 from Cheatham Road to County Services Parkway. Cobb County, GA: George serves as the lead historian for this sidewalk installation project along a busy corridor composed of commercial and residential properties, as well as the National Register-listed Kennesaw Mountain National Battlefield Park. Project tasks included assisting with project scoping, validation of prior resource identification efforts, initiation of Section 106 consultation, field survey, and resource evaluation. George also produced maps and figures for the Historic Resources Survey Report.
3/23-9/23	I-285 @ I-20 East Side Interchange Reconstruction. GDOT, DeKalb County: As part of the design-build team, George served as the lead historian for this Major Mobility Investment Program design-build project that entailed the reconfiguration of the I-285 and I-20 interchange east of downtown Atlanta. George's responsibilities reviewing design plans and completion of change narrative documentation, identifying physical, visual, and audible impacts to cultural resources in support of environmental reevaluations.
3/23-4/24	State Route (SR) 400 from North Springs MARTA Station to McFarland Road-Express Lanes. GDOT, Fulton and Forsyth Counties: As part of the design-build team, George served as historian and GIS technician for the tender phase of this Major Mobility Investment Program design-build project that would construct toll lanes along the northbound and southbound lanes of SR 400. George's responsibilities included calculating impacts to ecology resources in ArcGIS Pro from CAD files, reviewing design plans, and providing support to staff for NEPA re-evaluation efforts.
6/21-2/23	SR 11 From Blue Ridge Street to SR 325/Nottely Dam Road. GDOT, Union County, GA: George served as the lead historian for this 8.7-mi. widening project with an aggressive schedule and a variety of historic resource types. Project tasks included validation of multiple project historic resources surveys and evaluations that had been undertaken since the project's notification in 2007 as well as field surveys to identify potential historic resources. These results of these efforts were provided in a Historic Resources Survey Report Addendum IV for 35 historic newly identified historic resources with a subsequent project impact assessment for 16 resources in an Assessment of Effects report. George also produced maps and figures for both reports.
3/19-8/20	CR 1515/Willis Foreman Road from SR 4/US 1 TO SR 121/US 25. GDOT, Richmond County, GA: George served as the lead historian for this widening project. George planned and led the field survey effort and assisted team historians with the evaluation of newly identified historic resources. These efforts resulted in a Historic Resources Survey Report for 28 historic newly identified historic resources. George was also responsible for land records research and the production of maps.
10/14-4/18	SR 3/Northside Drive from Whitehall Street to Marietta. GDOT, Fulton County, GA: For this major roadway improvement, George assisted in the preparation of the Historic Resource Survey (HRS). George's tasks included the survey and evaluation of 135 resources comprising commercial, industrial, residential, and district properties. George also performed additional research from primary source materials, including Sanborn Fire Insurance Maps, historic aerial photography and topographic maps, city directories and newspaper articles. Due to the quality of survey, research, and evaluations for this project, the team of historians earned accolades from GDOT.
5/13-2/14	Lithonia Historic District National Register Nomination, DeKalb County, GA: As an intern with the Atlanta Regional Commission, George completed an ongoing effort to complete a National Register nomination for a proposed historic district in the City of Lithonia, Georgia. George completed in-depth research at a variety of repositories, using historic aerial photography, newspaper articles, local histories, and plat maps to compile the nomination. George also created required supporting maps using GIS software. This effort resulted in the listing of the Lithonia Historic District to the National Register of Historic Places in 2016.

16. Staff Experience

	Name	Zoe Knesl			MPR 12
	Firm	AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	16
	Title	Phase I ESA		Years of Relevant Experience with Other Employer(s)	15
	Degree(s)/Years/Specialization MS/2002/Marine Science; BA/1994/Integrative Biology/Ecology; BA/1994/Studio Art				
Active Registration Number /State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: ESA Brief Description: Zoe has 31 years of experience in field surveys, Phase I and II ESAs, NEPA documentation, GPS data collection, wetlands delineation, and laboratory procedures. She has worked on ecological and environmental projects involving soil and water data collection, analysis, and reporting. Zoe has authored NEPA impact sections on aquatic and terrestrial ecology, wetlands, water resources, land use, and aesthetics. Her skills include stable isotope analysis, organism preservation, benthic invertebrate identification, and forensic DNA analysis. She is also experienced in identifying plants and soil types.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
11/20-04/21	City of Baton Rouge, Baton Rouge LA: Environmental Scientist. Zoe conducted a Phase I ESA of the ROW of the College Drive Corridor in Baton Rouge, East Baton Rouge Parish, LA.				
11/18-02/22	Cotton Creek Capital. Environmental Scientist: Zoe conducted multiple Phase I ESAs on developed and undeveloped properties in Texas and Louisiana.				
06/19-12/21	City of Austin, TX. Environmental Scientist: Zoe conducted multiple Phase I ESAs on a variety of properties in Austin, Texas.				
10/08-03/19	Siemens Water Technologies, Former Siemens Site, Long-Term Monitoring, New Orleans, LA: Environmental Task Manager. Zoe conducted long-term monitoring of a facility, including field sampling, and generated quarterly and annual reports. She coordinated with the laboratory and facility and developed a proposal for additional investigation with a horizontal drill rig.				
04/10-07/10	US Army Corps of Engineers (USACE), Phase I Environmental Site Assessments. Environmental Scientist. ▶ USACE Phase 1 ESA for Pump Stations, New Orleans. Conducted a Phase I ESA of 26 sites ▶ USACE Phase 1 ESA Stockpiles, New Orleans. Conducted a Phase I ESA of four large sites in Orleans Parish ▶ USACE Phase 1 ESA, New Orleans. Conducted a Phase I ESA of five miles of levees in Orleans Parish ▶ USACE, Phase II ESA, New Orleans. Participated in the analysis and preparation of a Phase II report investigating potential soil impacts adjacent to two floodwalls in Orleans Parish				

16. Staff Experience

05/10-10/16	Veterans Administration and Federal Emergency Management Agency, Phase I ESA for New Hospital Site, New Orleans, LA: Environmental Scientist. Zoe conducted a Phase I ESA of 39.8-acre site for an alternative location for the hospital. She participated in a scoping meeting and provided support for document preparation.
04/11-04/11	Dixie Brewery Phase II Investigation, New Orleans, LA. Environmental Scientist: Zoe conducted several Phase II investigations with soil and water sampling. She assisted in taking over 100 soil samples and installing four temporary monitoring wells. She monitored asbestos and lead abatement activities and coordinated subcontractors for contaminated soil, underground storage tank, and hazardous waste removal. She coordinated with the VA, its contractors, and Louisiana Department of Environmental Quality regarding sampling, waste disposal, and RECAP requirements. She also performed data table organization, GPS coordinate logging, and regulatory research.
04/11-04/11	05/10 – 10/16 US Department of Veterans Affairs (VA), Dixie Brewery Phase II Investigation, New Orleans, LA: Environmental Scientist. Zoe conducted a Phase I ESA of 11 sites in preparation for potential rebuilds and upgrades.
07/13-07/13	Entergy Services, Inc., Phase II Limited Site Investigation and Phase I ESA, Various Locations: Environmental Scientist. Zoe conducted and reported on a Phase I ESA of a boiler facility and a cooling facility for a power company.
06/14-05/19	LANXESS Corp./Arlanxeo Groundwater Monitoring and Report Preparation, Orange, TX: Environmental Scientist. Zoe conducted groundwater monitoring sampling and generated a draft annual report, including data evaluation and text.
09/15-09/15	Entergy Corporation, Liquefied Natural Gas Power Plant Phase I ESA, El Dorado, AR: Environmental Scientist. Zoe participated in the Phase I ESA of a LNG power plant, including site visit, draft report, and historical and governmental research.
02/16-08/19	SCT&E LNG Inc., Cameron, LA: Environmental Scientist. Zoe completed a Phase I site assessment of an undeveloped island.
07/16-07/16	Harris Corporation, Lafayette, LA: Environmental Scientist. Zoe performed a Phase I ESA for an office/warehouse property.
09/17-09/17	Pilgrim Energy Partners: Environmental Scientist. Zoe performed a Phase I site assessment of three industrial/commercial properties in Scott, LA.
09/17-09/17	The Bureau of Alcohol, Tobacco, Firearms, and Explosives (ATF) and Federal Occupational Health (FOH): Environmental Scientist. Zoe conducted a Phase I ESA and a limited Phase II site investigation for the future location of a dog kennel on Redstone Arsenal.
07/18-05/19	Cotton Creek Capitol, Phase I ESAs: Environmental Scientist. Zoe completed eight Phase I ESAs for properties in Louisiana and Texas.
09/18-09/18	Port of New Orleans, LA: Environmental Scientist. Zoe performed environmental site research and review for properties on the Industrial Canal.
10/18-05/22	Dallas Water Utilities, City of Dallas, TX: Environmental Scientist. Zoe completed multiple Phase I ESAs, File Review/Screening Reports, Phase II ESAs, and Waste Characterization Reports.
11/18-11/19	CF Industries, Phase I ESA: Environmental Scientist. Zoe completed an ASTM compliant Phase I ESA of a vacant property located on the Mississippi River in Louisiana.
05/19-08/19	City of San Antonio, TX: Environmental Scientist. Zoe completed a Phase I ESA for a 12-block corridor on Broadway Street.
04/19-06/19	City of Austin, TX: Environmental Scientist. Zoe completed two Phase I ESA Reports for properties in Austin.
06/19-08/19	Cargill, Phase I ESA: Environmental Scientist. Zoe completed an ASTM compliant Phase I ESA of a vacant warehouse property located in Louisiana.

16. Staff Experience

	Name	Cassie Kerrin, PG		MPR 12
	Firm	Arcadis	Years of Relevant Experience with this Employer	3
	Title	Geologist / Project Manager	Years of Relevant Experience with Other Employer(s)	11
Degree(s)/Years/Specialization		MS/2010/Geology BS/2008/Geology		
Active Registration Number /State/Expiration Date		Professional Geoscientist No. 1092/Louisiana/Dec 13, 2025		
Year Registered	2016	Discipline	Geology	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geological Investigation Brief Description: Cassie is a Professional Geoscientist and Project Manager with 14 years of experience in performing geologic investigations and assessments in the state of Louisiana. Her technical expertise resides in soil and groundwater environmental site assessment, risk management, and remediation under the applicable Louisiana regulatory framework with extensive regulatory experience in the Louisiana Risk Evaluation/Corrective Action Program (RECAP). Cassie advises and reviews as Professional Geoscientist for numerous projects and liaisons with regulatory agencies including the Louisiana Department of Environmental Quality (LDEQ), the Louisiana Department of Energy and Natural Resources (LDENR), the Texas Commission on Environmental Quality, and the US Environmental Protection Agency on behalf of clients.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/23–ongoing	Solid Waste and Hazardous Waste Groundwater Monitoring Program and Additional Environmental Support Services; Confidential Industrial Client; Saint Charles Parish, LA. Project Manager and Senior Geologist. Manages the groundwater sampling, analysis, and reporting associated with active solid waste units and closed hazardous waste units. Reviews subsurface data to delineate plumes, determine groundwater flow directions, and assess trends through time. Ensures facility compliance with LDEQ solid and hazardous waste permits. Coordinates and oversees the operation and maintenance of a groundwater treatment system for dense nonaqueous phase liquids (DNAPL) recovery and provides recommendations for system optimization.			
07/23–ongoing	Multi-Media Sampling, Confidential Mining Client, Ouachita Parish, LA. Project Manager and Senior Geologist. Prepared scope and sampling plan to assess unknown environmental conditions associated with former carbon black manufacturing facility, including subsurface soil, pond sediments, and surface water. Directed the client on required site closure activities in accordance with state regulations.			

16. Staff Experience

07/23–ongoing	Benzene Pipeline Release Corrective Action and Site Closure Advocacy, Confidential Oil & Gas Client, Ascension Parish, LA. Project Manager and Senior Geologist. Project Manager for benzene pipeline release site under LDEQ's Voluntary Remediation Program. Challenged and successfully overturned recent LDEQ requests (e.g., well network modifications, additional groundwater sampling parameters) through technical responses to demonstrate existing plan adequacy. Renewed client interest and action in addressing outstanding environmental liabilities and advancing site closure. Conducted updated high-level remedial alternatives analysis to provide recommended path forward strategy. Work plan to address data gaps submitted in 2024 after site was idle following active remediation in 2013.
01/22–ongoing	Environmental Support Services, USEPA Region 6 Superfund Site Potentially Responsible Party (PRP) Group, Vermilion Parish, LA. Project Manager and Senior Geoscientist. Ensures quality of subsurface data collection and analysis. Reviews subsurface data to delineate plumes, determine groundwater flow directions, and assess trends through time. Reviews and approves final deliverables as LA Professional Geoscientist. Advocated for and achieved USEPA approval for reduction in monitoring requirements based on groundwater data trends and assessment. Authored three technical memoranda on behalf of PRP Group to demonstrate continued protectiveness of the selected site remedy to human health and the environment in response to USEPA requests.
12/21–10/24	Low-pH Soil Corrective Action & Site Closure, Confidential Industrial Client, Plaquemine Parish, LA. Project Manager and Senior Geologist. Directed implementation of RECAP Corrective Action Plan involving in-situ chemical injections into shallow subsurface to remediate impacted soils from acid release. Evaluated data in consideration of conceptual site model and prepared report demonstrating that even though remedial standards had not been met, no risk to human health or the environment remained. Technical lines of evidence were accepted by LDEQ and site was granted No Further Action status after the site had been opened and active since 2005.
12/21–10/22	Soil and Groundwater Investigations, Remediation, and Monitoring Projects, Confidential Oil & Gas Client, Port Arthur, TX. Project Manager and Senior Geologist. Provided support to oil and gas refinery in Texas in managing their environmental liabilities, specifically related to release events. Contributed to authoring soil management plan and spill release guidance plan, advising the facility on regulatory requirements following a spill and risk-based evaluation under TRRP. Oversaw the implementation of post-closure monitoring, including collection and interpretation of groundwater data.
06/18–12/22	Groundwater Compliance Program, Confidential Industrial Client, Freeport, TX. Subject Matter Expert. Advised team on regulatory compliance of groundwater corrective action program under Hazardous Waste Permit at a large chemical manufacturing facility. Recommended changes to groundwater sampling and reporting for improved alignment with permit requirements and standard practices. Reviewed and PG sealed final reports for state submittal.
01/17–01/20	RECAP Investigations and Corrective Action, Greenfield Environmental Trust Group, Bossier Parish, LA. Project Geoscientist. Lead the field investigation and reporting under Louisiana RECAP for a former creosote wood-treating facility where non-aqueous phase liquid was identified in surface soil, subsurface soil, and groundwater. Supervised environmental sampling for visual and chemical analysis to determine nature and extent of contamination; analyzed geochemical data to delineate plumes. Supported the remedial alternatives analysis for design of cleanup.

16. Staff Experience

	Name	Tim Ratchford, PG		MPR 19
	Firm	Arcadis	Years of Relevant Experience with this Employer	36
	Title	Technical Expert/Geologist	Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		BS/1984/Geology/Millsaps College/Jackson, MS MS/1987/Geology/Northeast Louisiana University/Monroe, LA		
Active Registration Number /State/Expiration Date		Professional Geologist #54 / Louisiana / 08/2025; PG / Texas / August 2025		
Year Registered	1994	Discipline	Geology	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geological Investigation Brief Description: Tim is educated and experienced in various aspects of environmental science. He has been with Arcadis' Baton Rouge since 1989. He has more than 35 years of experience in conducting geological investigations. This experience includes conducting investigations that pertain to Resource Conservation and Recovery Act (RCRA) Facility Investigations and Brownfields Programs for urban redevelopment. Geological investigation work has included development of a detailed Quality Assurance Project Plan and Investigation Work Plan compliant with USEPA and Mississippi Department of Environmental Quality (MDEQ) protocols establishing data quality objectives for investigations for urban development consistent with USACE, MDEQ, and USEPA criteria.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/15-ongoing	RCRA Facility Investigation, Covestro, Baytown, TX. Project Manager and technical leader for a RCRA Facility Investigation (RFI) conducted for a petrochemical facility located in southeast Texas. Project responsibilities included implementation and conducting all field-related activities. These activities included the advancement of over 130 soil borings and the installation of over 26 monitor wells to facilitate the collection of soil and groundwater samples for chemical analyses. Select soil and groundwater samples were retained for chemical analysis during the project. Upon completion of all activities, Mr. Ratchford prepared the project report presenting the results of the chemical analytical program (with conclusions and recommendations). The project report was subsequently submitted to the Texas Commission on Environmental Quality (TCEQ) for review.			
03/16-ongoing	RCRA Facility Investigation, Westlake Chemicals, Plaquemines, LA. Project manager and technical Leader for a site wide RFI for a petrochemical facility located in Southeast, Louisiana. Responsibilities included development and implementation of a facility wide investigation to evaluate waste management units and potential releases of hazardous waste constituents. The project is currently ongoing and includes use of Louisiana Risk-based Corrective Action Criteria to establish closure objectives for the site.			

16. Staff Experience

12/12-ongoing	Site Investigation Work, Confidential Client, Port Neches, TX. Site Geologist for a petrochemical facility located in southeast Texas. Responsibilities include development and implementation of geological investigation plans to investigate soil and groundwater in support of site redevelopment and construction expansion. Data collected as part of the investigations are used to establish baseline conditions existing at a specific location and to plan for waste management for excavated soil resulting from construction and expansion.
12/15-04/21	Injection Well Permitting, Confidential Client, South Gulf Coast, TX. Site geologist and technical lead for permitting and installation of a Class I Injection Well used for disposal of nonhazardous industrial wastewater. Project activities included obtaining all required investigation work permits from several agencies having jurisdiction in the area of the project. Tim prepared geological cross sections to show the radius of influence associated with the injection well. Preparation of the injection well permit application providing all supporting geological information was also conducted by Tim.

16. Staff Experience

	Name	Angela Lemoine-Lakvold, MAI, SRA, R/W-AC		MPR 13
	Firm	The Lakvold Group	Years of Relevant Experience with this Employer	23
	Title	Real Estate Specialist	Years of Relevant Experience with Other Employer(s)	14
Degree(s)/Years/Specialization		MBA/1998/Business Administration; BS/1985/Business and Public Administration; numerous specialized appraisal classes and seminars		
Active Registration Number /State/Expiration Date		Louisiana State Certified General Appraiser: #APR.00575-CGA/LA/ 12/31/2025; MAI/1995; SRA/1993; R/W-AC/Appraisal Certification International Right-of-Way Association		
Year Registered	1992	Discipline	General Real Estate Appraiser	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Conceptual Stage Relocation Plan Brief Description: Angie has worked as an appraiser for the LADOTD since 1986 and focuses on infrastructure and litigation appraisals. She will provide the conceptual stage relocation plan.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
11/20-03/22	LADOTD, SPN H.004791, LA 23, Belle Chasse Bridge & Tunnel (HBI), Plaquemines Parish and Jefferson Parish, LA. Real Estate Professional. Angela completed an appraisal for the acquisition of the right-of-way for project construction.			
03/20-06/20	LADOTD, SPN H.009932/H009932, US 80 Widening, Vancil Road to Well Road, Ouachita Parish, LA. Real Estate Professional. Angela completed the Conceptual Relocation Plan to be included in the EA. The plan included viewing the project area, analyzing real estate impacts, determining potential relocations, and researching the market area and real estate inventory.			
07/19-09/17	LADOTD, SPN H.000284/H.00289/H000284 and H000286, US 90 Pearl River Bridges, Route US 90, St. Tammany Parish, LA, and Hancock County, MS. Real Estate Professional. Angela completed the Conceptual Stage Relocation Plan to be included in the EA.			
12/16-04/17	LADOTD, SPN H.007970/12-CS-HC-0043, Old Hammond Highway (LA 426), Segment 1, East Baton Rouge Parish, LA. Real Estate Professional. Angela completed the Conceptual Stage Relocation Plan to be included in the EA.			
01/17-08/20	LADOTD, SPN H.012308, Cook Road Improvements, LA 16 to Juban Crossing, Livingston Parish, LA. Real Estate Professional. Angela completed a Conceptual Stage Relocation Plan to be included in the EA and completed the appraisals for the acquisition of the right-of-way for construction.			
05/19-08/19	LADOTD, SPN H.001271, Cane River Bridge Church Street, Route LA1-X, Natchitoches Parish, LA. Real Estate Professional. Angela completed a Conceptual Stage Relocation Plan to be included in the EA.			

16. Staff Experience

01/18-08/19	LADOTD, SPN H.011670, F.A.P. No. H011670, Interstate 10/Loyola Interchange Improvements, Jefferson Parish, LA. Real Estate Professional. Angela completed the Conceptual Stage Relocation Plan to be included in the Environmental Assessment and completed the appraisal of the advanced acquisition of the Red Roof Inn Hotel.
03/19-06/20	LADOTD, SPN H.007811/007811, Comite River Diversion Canal, East Baton Rouge Parish, LA. Real Estate Professional. Angela completed appraisals for the acquisition of right-of-way for the construction of the Comite River Diversion Canal.
05/19-09/19	LADOTD, SPN H.011670/3-22-0006-110-2018, Runway 13-31 Safety Area, R.P.Z. Runway Improvements, LA, Highway 67/ Plank Road, Phase I, East Baton Rouge Parish, LA. Real Estate Professional. Angela completed an appraisal for the acquisition of the right-of-way to relocate Plank Road to accommodate expansion of the Baton Rouge Metropolitan Airport.
11/16-05/20	LADOTD, SPN H.012290/H.012290/09CSUS0041, Pecue Lane/I-10 Interchange, East Baton Rouge Parish, LA. Real Estate Professional. Angela completed the appraisals for the acquisition of the right-of-way for project construction. Appraisals were completed in phases.

16. Staff Experience

	Name	John Crosslin, PE		MPR 14
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	24
	Title	Civil Engineering IV	Years of Relevant Experience with Other Employer(s)	4
Degree(s)/Years/Specialization		BS/1996/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.0031498 / LA / 03/2027 Additional active licenses; AL, KY, TN, TX		
Year Registered	2001	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Bridge Design Brief Description: A bridge engineer with AECOM, John has extensive experience in the design and load rating of state highway and interstate bridge projects. This experience includes the design of complex arch bridges, extradosed bridges, complex steel box bridges with integral caps, pre-stressed concrete bridges, steel bridges, and curved steel bridges, over 95 in total. One highlight is the design and load rating of the New Frederick Douglas Memorial bridge in Washington DC. This bridge consisted of three arch spans with an overall length of 1,445 ft. He also has experience in the design of retaining walls, and box culverts. He has extensive training in design by the LRFD Bridge Design Specifications, and has design experience using this code. He is capable of the design and layout of bridges with complex geometric layout. He has experience designing bridges with high strength high performance concrete, and the use of high performance steel in plate girders for hybrid and non-hybrid sections. John has extensive experience in bridge widening projects and has extensive training and experience designing bridges in seismic regions 2 to 4. He has experience as an Resident Engineer on an \$11 million dollar TDOT interchange modification project. He has experience in the design of post-tensioned concrete structures.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/24 - ongoing	McFarland Boulevard over the Black Warrior River, Tuscaloosa, AL: John is the lead designer on the replacement of the Woolsey Finnell Bridge this project is a significant infrastructure project aimed at enhancing transportation efficiency and safety for the Tuscaloosa community. The new bridge consists of three steel plate girder spans and four pre-stressed girder spans. The total structure length is 1208 feet.			
03/19–06/23	Mystic River Crossing Bridge, Mystic, CT: John was part of the design team for this six span steel spine girder arch bridge. This multi span bridge featured a 220'-0" arch span bridge and steel V-piers.			

16. Staff Experience

08/17-02/22	Frederick Douglass Memorial Bridge, Washington, DC : John was part of the design team for this three span arch bridge. The span lengths were 452'-6", 540'-0", and 452'-6" for an overall bridge length of 1445'-0". This bridge was particularly challenging due to the hexagonal shape of the rib cross-section combined with the parabolic variation of the depth of the upper and lower web plates. The arch rib depth varied from 14'-0" at the base to 6'-0" at the crown. John was also responsible for the design of the arch rib splices, longitudinal girders, and the transverse floor-beams. In addition to the design process, John was the lead in charge of the load rating.
12/16-04/22	I-20/59 Over McFarland Boulevard, Tuscaloosa, AL: John was the lead designer for this single span arch bridge. The span length was a little over 256'. This bridge was particularly challenging due to the construction phasing requirements. The arch rib was a trapezoidal steel box with a parabolic variance in depth. The floor system consisted of seven trapezoidal direction box girders in the longitudinal as well as transverse floor beams. In addition to the design process, John was the lead in charge of the load rating.
08/14-02/16	Route 29 Over the Staunton River, VA: John is the lead designer for the steel super-structure of this eight span steel bridge. The total bridge length is 1,392ft and utilized haunched webs to aid in clearance requirements over the Norfolk Southern Railway. The web depth varied from 72" to 54".
05/13-10/13	Route 501 Over the James River and CSX Railroad, Amherst Co., VA: John was responsible for checking the final design calculations for the steel super-structure for this bridge. This bridge consisted of a 5 span curved steel girder with a 72" plate girder.
02/11-07/11	IH-35 over the Brazos River, Waco, TX: John was the designer of the structural steel components for this three span Extradosed Cable Stayed Structure. The spans of this structure were 185'-0", 250'-0", and 185'-0". The structure utilized two trapezoidal box girders with a web depth of 78". The girder spacing was set at 46'-8" to accommodate the cable stayed system. The wide girder spacing made it necessary to use a system of stringers with spaces from 14'-0" to 15'-0". The design and detailing of the cable anchorages to the girder presented some unique challenges involving the use of internal diaphragms and jacking stiffeners.
09/09-05/11	I-595 Broward County, FL: Bridge designer of three complex curved I-girder bridges with steel integral caps. Part of the design process also included a load rating for the steel girders as well as the integral steel caps. In addition to these bridges, a three girder system trapezoidal box girder with a horizontal curve, integral steel cap, and multiple degrees of skew.
09/04-03/07	Cumberland River Pedestrian Bridge, Metropolitan Government of Nashville, TN: Project Manager responsible for the design and details of this pedestrian bridge over the Cumberland River in Nashville Tennessee. This bridge utilized a single trapezoidal tub girder with an 11.5ft web. This girder utilized both Grade 50W steel and HPS Grade 70W steel. This project has many unique features and design challenges. Some of these challenges include two tall piers with rectangular hollow core sections and a 8ft diameter drilled shaft with a triple reinforcement cage. This bridge is also a simulated suspension bridge. This created the necessity for many unique and innovative details.

16. Staff Experience

	Name	Kenneth Butler, PE		MPR 14, 15
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	15
	Title	Global Head of Complex Structures, AECOM Fellow	Years of Relevant Experience with Other Employer(s)	22
	Degree(s)/Years/Specialization	BS/1984/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.31476/LA/3.31.27 Additional licenses in VA, FL, MD, PA, SC, NC, CA, D.C., DE, NY, NJ		
Year Registered	1991	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Project Principal/Bridge Design Task Leader/Alternative Corridor Evaluation/Screening Brief Description: Ken brings 40 years of experience and national recognition for his performance on high profile bridge projects. He has been involved with the management, design, and construction of 35 major and complex bridges worth more than \$5 billion in construction cost. He also has significant experience in Louisiana, leading the design of the Florida Avenue bridge in New Orleans, Louisiana and the I-49 Lafayette Connector Structural design. He has played significant roles on nine (9) major alternate delivery projects including: the \$4 billion Brent Spence Bridge project in Cincinnati, Ohio; the \$463 million Harry W. Nice/Thomas "Mac" Middleton Bridge in Newburg, MD; \$449 million Frederick Douglass Memorial Bridge Project in Washington D.C.; \$227 million historic Arlington Memorial Bridge design build project in Washington D.C.; the \$1.3 billion PPP I595/I95/I75/FLTP Corridor Improvements in Fort Lauderdale, Florida; the \$250 million design build Carolina Bays Parkway in Myrtle Beach, South Carolina; the \$1.5 billion design build Tren-Urbano mass transit project in San Juan, Puerto Rico; the \$150 million design build Indian River Inlet cable stayed bridge replacement in Rehoboth Beach, Delaware; and the \$1.3 billion PPP Edmonton LRT project (Tawatina extradosed cable stayed bridge) in Edmonton, Alberta, Canada. He has provided designs, project management, construction support and construction engineering inspection services to 14 state agencies, as well as several toll authorities.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/08-11/08	Florida Avenue Bridge, DOTD (State Project No. 700-92-0016), New Orleans, LA: Ken led the bridge design efforts as EOR for the main bridge over the Inner Harbor Navigational Channel (IHNC) which included a 1,500-foot long cast-in-place balanced cantilever segmental bridge with a 470-foot long main span. He directed the feasibility studies, bridge alternatives analyses, preliminary and final design phases for this section of bridge which includes a 156' vertical and 300' horizontal navigational clearances. Two alternates were developed during the final design for the main unit including steel plate girders and cast-in-place variable depth concrete box girders. The overall project consists of approximately 2 miles of elevated structure including high level approaches comprised of prestressed concrete bulb-T girders and curved steel girder interchange ramps.			

16. Staff Experience

01/19 - 12/22	MDTA Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project, MD (\$463M Design Build: SCM - Skanska-Corman-McLean) – Jan 2019 to Dec 2022. Mr. Butler served as the Design Manager for this 1.9-mile long bridge over the Potomac River. Project includes major bridge design over a navigable channel; environmental permitting; 200-ft deep foundations; roadway design; staged construction; and demolition of the existing bridge over the Potomac River. As Design Manager, Ken was responsible for managing 60+ designers for designs, plans, special provisions, shop drawings, and working plans for all design disciplines; implementing and overseeing the QA/QC program; integrating with contractor, designers and owner in project office; budget and schedule compliance; and constructability and VE reviews. He has full professional liability for all engineering decisions and the final work product. The design took 1-year and he continues to provide construction support to the Design Builder.
08/17-08/22	DDOT Frederick Douglass Memorial Bridge Project, Washington, DC: Ken served as the Design Manager for this signature bridge project over the Anacostia River. Creation of a signature bridge and overall project aesthetics were key drivers behind the project to satisfy the Commission of Fine Arts and the National Capital Planning Commission. The 1,445-ft long bridge is comprised of three springing cable stayed arch spans at 452.5'-540'-452.5' supported by cable stays. The project includes traffic ovals; major Interstate reconstruction; complex MOT; utilities; new river bridge being built parallel to existing bridge; roadway transitions; H&HA scour; drainage and erosion and sediment control; environmental permitting; roadway lighting; bike/pedestrian facilities; landscape; etc. Duties included managing 130 designers for designs, plans, special provisions, shop drawings, and working plans for all design disciplines; implementing and overseeing the QA/QC program; integrating with contractor, designers and owner in project office; budget and schedule compliance; and constructability and VE reviews. He had full professional liability for all engineering decisions and the final work product. Load rating as well as an Owner & Inspection Manual were also part of the design scope. Ken began this project in 2016 during the pre-bid phase and was committed full time for two years through the design and construction. The design took 1.5 years and he continues to provide construction support to the Design Builder.
10/18-12/21	NPS/FHWA-EFLHD Arlington Memorial Bridge, Washington, DC: Ken served as the Designer of Record for this historic arch bridge rehabilitation project over the Potomac River. Primary components of the project included complete re-decking of the 2,162 feet long bridge with precast concrete deck panels using stainless steel reinforcing; complete replacement of interior arch supports; and total replacement of the central bascule span with 280-foot-long fixed steel girder spans. Ken's roles on Arlington Memorial Bridge and the Frederick Douglass Memorial Bridge Project were concurrent, and Ken had full professional liability for engineering decisions and final work product.
01/14-12/20	City of Edmonton Tawatina Bridge on Valley Line SE, Edmonton LRT, Alberta, Canada: Ken was a technical advisor responsible for reviewing the extradosed cable stayed bridge base design & performance specifications; supporting the owner during technical proposal reviews and bid selection; and providing technical input during construction to the owner. The concrete segmental extradosed cable stayed bridge is 1,248-ft long over the North Saskatchewan River and includes 290-ft of cable stay spans.
03/11-08/12	TxDOT IH-35 Bridges over Brazos River, Waco, TX: Ken served as the Technical Director for these twin extradosed cable-stayed bridges that serve as the gateway entrance for the city of Waco, TX. He was responsible for the technical development of the bridge design. His services included input and oversight of design methods & criteria, stay configuration, superstructure details, erection schemes, and analysis procedures. The bridge is a 3-span structure 185'-250'-185' (steel trapezoidal box superstructure). As Technical Director he was also responsible for assigning the design team as well as the quality control team.

16. Staff Experience

	Name	Steve Stroh, PhD, PE			MPR 15
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	42	
	Title	Senior Vice President, Deputy Director, Surface Transportation, Major Bridges	Years of Relevant Experience with Other Employer(s)	10	
	Degree(s)/Years/Specialization PhD/2012/Civil Engineering MSc/1987/Civil Engineering BSc/1981/Civil Engineering				
Active Registration Number /State/Expiration Date		PE 0031221/LA/09/30/2025			
Year Registered	1981	Discipline	Professional Engineer (Civil and Structural)		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Bridge Design/Structural Engineer Brief Description: As an AECOM Complex Bridge Practice Leader, Steve is responsible for technical direction, overall production, and quality control of major bridge projects throughout the United States. Steve is active in project management, preliminary and final bridge design, construction document preparation, and construction-phase services. His expertise includes structural analysis and design for a wide variety of bridge structures, including concrete and steel grade separation structures, water crossing and viaduct structures, segmentally constructed concrete bridges, long-span cable-stayed bridges, arch, and suspension bridges. Special analysis has included aerodynamic stability investigations, earthquake dynamic analysis for long-span bridges, and detailed finite element modeling.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
7/18-12/21	Gordie Howe International Bridge (GHIB), Detroit, MI. was Lead bridge engineer and Engineer of Record responsible for design and delivery for Gordie Howe International Bridge (GHIB) over the Detroit River between Detroit, Michigan and Windsor Canada. This \$6 billion Public-Private Partnership project included the design and construction a composite cable stayed bridge with a 2,800 foot main span, the longest Cable stayed bridge in North America.				
09/13-12/16	Bridge Design Manager and Engineer of Record, George V. Voinovich Bridge, Cleveland OH, Ohio DOT. This \$270 million design build project includes a 3000 foot long steel delta girder bridge with spans up to 361 foot. The delta girder design is an innovative concept was developed in response to strict aesthetic criteria and was instrumental to the winning design tender.				
06/08-11/16	Project Manager, Ironton Russell Bridge over the Ohio River, Ohio DOT. Prepared preliminary design, final design, and construction phase services for a concrete cable stayed bridge crossing of the Ohio river between Ironton Ohio and Russell Kentucky. Bridge is a three-span symmetrical concrete cable stayed bridge with a 900-foot main span. Superstructure is a concrete edge girder arrangement cast in place with a traveling form. Towers are delta shaped. Preliminary design included a Navigation Simulation Study with River Pilots and US Coast Guard oversight to establish appropriate pier locations in the river and vesse4l collision design study and design for vessel collision with piers.				

16. Staff Experience

05/11-11/14	Design Manager, Anchorage Port Access Bridge, Alaska Department of Transportation, Anchorage, AK. Responsible for the structural modeling and load rating of this major arterial bridge connecting the Port of Anchorage with the city of Anchorage. This steel plate girder bridge structure is over 2200 feet in length with 22 spans and utilizes 12 hinge connections that incorporate pin and hanger assemblies. The superstructure is monolithic with the steel caps and columns, and also uses prestressed concrete beam approach spans.
06/11-03/12	Structures Design Manager, Ohio River Bridges – Downtown Crossing, Louisville, KY. Structures design manager for preparation of a design-build tender to Skanska/Flatiron/Dragados JV including interchange connections on Kentucky and Indiana approaches and a cable stayed crossing of the Ohio River. Ohio River Bridge was a three-span cable-stayed steel-composite bridge with a 750-foot main span. A third faux tower and stay-cables were design to visually provide a four-span cable-stayed bridge per RFP requirements.
10/10-06/13	Structural Advisor, 2nd Street Bridge over Shoal Creek, Austin, TX. Provided oversight for the conceptual phase engineering study for various highly stylized girder, arch and cable stayed structures spanning approximately 200 feet over Shoal Creek. The bridge accommodates four lanes of traffic and a separate pedestrian/bicycle path. The bridge was designed to visually integrate with a major redevelopment of the area including a new public library. Provided peer review of the preliminary and final design for the selected tied arch bridge alternative.
10/10-04/11	Bridge Expert Panel Review – I-5 Columbia River Crossing, Portland Oregon/Vancouver, WA. The Dames Point Bridge is a concert cable stayed bridge with an expansion joint at the mid-point of the main 1300-foot span. This assignment was to prepare a concept study recommending repair procedures for the mid-span vertical shear locks at the expansion joint location. Phase 2 of the project was to develop construction plans for the shear lock repair and expansion joint replacement, and Phase 3 provided construction phase services.
06/09-02/11	Project Manager, Dames Point Bridge Shear Lock Repair, Florida DOT District Two, Jacksonville, FL. The Dames Point Bridge is a concert cable stayed bridge with an expansion joint at the mid-point of the main 1300-foot span. This assignment was to prepare a concept study recommending repair procedures for the mid-span vertical shear locks at the expansion joint location. Phase 2 of the project was to develop construction plans for the shear lock repair and expansion joint replacement, and Phase 3 provided construction phase services.
04/01-12/10	Technical Advisor, Bridge of Honor (Pomeroy-Mason Bridge), Ohio DOT, Pomeroy, OH. Provided preliminary design, final design, and construction phase services of a concrete cable stayed bridge with a main span of 675 feet. Design features a cast-in-place edge girder deck system and delta-shaped towers and accommodated a separate pedestrian walkway. Provided maintenance and inspection manual. Project was awarded the 2011 American Segmental Bridge Institute Award of Excellence.
04/99-12/16	Lead Engineer, Pearl Harbor Memorial Bridge, Connecticut DOT, New Haven, CT. Developed both a steel and concrete alternative design for an innovative extradosed prestressed bridge design. Bridges are twin three span structures with 157m main spans. Each deck is variable width accommodating 5-lanes of traffic, full shoulders and a variable ramp taper. Design included consideration of vessel impact loads and pier protection system. The design features an explicit attention to aesthetics with carefully proportioned elements and provision of aesthetic lighting. Project included plans and specifications for research related instrumentation and testing that included strain gauging, accelerometers, thermocouples and displacement transducers. Providing construction phase services for the selected concrete alternative.

16. Staff Experience

	Name	W. Robert Thompson, III, PE, BC.GE			MPR 16
	Firm	Dan Brown and Associates	Years of Relevant Experience with this Employer		20
	Title	Senior Principal Engineer	Years of Relevant Experience with Other Employer(s)		11
Degree(s)/Years/Specialization		MS/1994/Civil Engineering BS/1988/Civil Engineering			
Active Registration Number /State/Expiration Date		Louisiana, 33408, 3-31-2026 Maryland, 49984 Mississippi, 13745, 12-31-2025 Ohio, 74616 Alabama, 22232 Tennessee, 131700 Arizona, 59196 Texas, 114920 Florida, 55045 Virginia, 402066776 Georgia, PE24442 Washington, D.C., 4000125 Illinois, 062.075731 British Columbia (CAN), 61014			
Year Registered	1998	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geotechnical Foundation Design Brief Description: With over twenty years of experience and projects throughout the gulf coast Robert brings insights for evaluating site conditions, designing appropriate foundations, and ensuring structural integrity and stability. He will lead site investigations, analyze soil properties, and develop design solutions that meet project requirements and safety standards.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
03/15-ongoing	I-10 Mobile River Bridge – Mobile and Baldwin Counties, AL: Project includes new high elevation cable-stayed structure with seven miles of new Bay Way bridges. Serves on the Owner Representative team, performing preliminary axial/lateral resistance analysis for deep foundations, writing/reviewing technical provisions, and reviewing all geotechnical and foundation design submittals by the design-build team. Provides owner representative field observations of deep foundation testing and construction. Designed large scale pre-bid load test program involving static, dynamic, rapid and bi-directional load cell testing of concrete piles, drilled shafts and steel pipe/H-piles.				
01/23- ongoing	US17/SR404 Spur Bridge (Talmadge Bridge) – Savannah, GA: Geotechnical Engineer for evaluation of the Talmadge Bridge foundations for a major maintenance project that includes stay replacement and evaluating raising the bridge by up to 20 ft during the stay replacement. The cable-stayed bridge that spans the Savannah River between downtown Savannah, Georgia, and Hutchinson Island with the main tower piers on the banks of the river. The bridge was completed in 1991, provides 185 ft of vertical navigational clearance, and is 1,100 ft long. Analysis of the existing foundations included axial and lateral analyses using the original design geotechnical information, construction-phase load tests, and supplemental exploration data. A site-specific seismic hazard analysis was done to determine potential ground motions for the bridge models and identify the potential for seismic induced liquefaction.				

16. Staff Experience

03/09–11/10	GIWW Closure Project – New Orleans, LA: Served as geotechnical designer and reviewer for contractor team, designing temporary works piles, performing new levee settlement analysis and calculations, geotechnical design of load test reaction systems, performed static and driveability analyses for driven piles (open-ended pipe piles, H-piles), and evaluated pile load test data
02/09–10/10	LPV-145 Levee Project – New Orleans, LA: Served as geotechnical designer and reviewer for contractor team, designing temporary works piles, geotechnical design of load test reaction systems, performed static and driveability analyses for driven piles (H-piles), and evaluated pile load test data
04/06–11/08	US 98 Biloxi Bay Bridge – Biloxi, MS: Foundation consultant for design and construction of replacement bridge after Hurricane Katrina. Provided oversight of a comprehensive test pile program of indicator piles and load test piles used to refine pile designs and establish driving criteria to reduce schedule delays. Provided technical assistance and design consulting for the driven pile foundations. Reviewed approach embankment designs and settlement analysis.
06/05–12/20	Various Deep Foundations Projects – Louisiana: Provided geotechnical consulting and design services as a subconsultant to CBK Soils Engineers (Lake Charles, LA) for a variety of structures supported on deep foundations. Foundation types were drilled shafts, prestressed concrete piles, and H-piles. Performed engineering analysis and calculations, wave equation analysis, and evaluation of dynamic testing results. Structures included: facilities at the Port of Lake Charles; highway overpasses; elevated water storage tanks; industrial facilities; and (name at the time) Sugar Cane Bay Casino in Lake Charles, LA.
06/05–12/09	John James Audubon Bridge – New Roads, LA: Design geotechnical engineer on design team, performing deep foundations calculations and analysis; performed wave equation analysis and evaluated dynamic testing data for concrete driven piles for approach structures; observed drilled shaft and driven pile installation and load testing; managed geotechnical exploration program for main cable-stayed bridge.

16. Staff Experience

	Name	Dan Brown, PhD, PE		MPR 16
	Firm	Dan Brown and Associates	Years of Relevant Experience with this Employer	21
	Title	Founder, Technical Advisor - Geotechnical Engineer	Years of Relevant Experience with Other Employer(s)	28
Degree(s)/Years/Specialization		PhD/1985/Geotechnical Engineering BCE/1977/Civil Engineering		
Active Registration Number /State/Expiration Date		18863/LA/03.31.2027 FL, GA, TN, MO, NY		
Year Registered	1980	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geotechnical Foundation Design Brief Description: 40 years of experience with deep foundations and soil slope stability and stabilization, Dan will participate in developing cost efficient geotechnical engineering solutions using proven techniques.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/13 - 11/15	Goethals Bridge, NY-NJ: Design Professional responsible for foundation engineering of \$1B cable stayed bridge and approach structures for Port Authority of NY/NJ, founded on drilled shafts.			
05/06 - 10/14	St. Croix River Bridge, St. Croix, MN: Design Professional responsible for foundation engineering and implementing the load testing program for extradosed bridge in environmentally sensitive area for drilled shafts in weak sandstone.			
09/10 - 12/12	Tilikum Crossing, Willamette River Bridge, Portland, OR: Foundation design of main pylon foundations for a long span cable stayed bridge to carry transit and pedestrian traffic, supported on groups of drilled shafts in a glacial deposit of cemented sand and gravel.			
01/09 - 11/11	Hastings Mississippi River Bridge, Hastings, MN: Design Professional responsible for foundation engineering and implementing the load testing program for a new arch bridge. The bridge is supported by large diameter driven steel pipe piles and drilled shafts, with a pile-supported approach embankment on deep compressible soils.			
03/09 - 12/11	Stan Musial Veterans Memorial Bridge, Mississippi River, St. Louis, MO: Foundation designer via alternate technical concept (ATC) process and load testing for a new cable-stayed bridge founded on large diameter drilled shafts socketed into Limestone bedrock.			
08/09 - 07/11	Lafayette Bridge, St. Paul, MN: Foundation designer for a new Mississippi River Bridge crossing, founded on driven steel pipe piles.			
03/07 - 12/09	Bond Memorial Bridge, Kansas City, MO: Lead geotechnical designer for cable-stayed Missouri River crossing, foundation construction recently completed with drilled shaft foundations socketed into rock.			

16. Staff Experience

03/05 - 12/08	John James Audubon Bridge, LA: Lead geotechnical designer for cable-stayed Mississippi River crossing, foundation construction recently completed with 200ft deep drilled shaft foundations in sand, improved by base grouting at the shaft toe.
05/07 - 05/08	I-35W Bridge Replacement, Minneapolis, MN: Foundation consultant to MNDOT for the replacement of the collapsed structure over the Mississippi River, construction recently completed with drilled shafts socketed into rock.
03/06 - 10/07	Biloxi Bay Bridge, Biloxi, MS: Foundation consultant for replacement of U.S. 90 bridge destroyed by hurricane Katrina with driven prestressed pile foundations.
02/05 - 12/06	I-10 Escambia Bay Bridge Replacement, Pensacola, FL: Foundation consultant for replacement of I-10 bridge destroyed by hurricane Ivan with driven pile foundations.
04/20 - 06/21	Stabilization of Site C Dam, British Columbia Hydro: Geotechnical consultant participating in providing solutions for a deep-seated slide movement beneath the spillway and powerhouse of this major dam. The slide was stabilized by a series of large diameter drilled shafts designed to act as shear dowels. This project included deep lateral bi-directional load cell tests to verify the shaft design.
02/09 - 12/10	Foothills Parkway Bridge, TN: Foundation designer for a micropile-supported bridge in remote mountainous terrain, constructed to minimize environmental impact for National Park Service. The bridge was on a steel and unstable slope and the foundations included anchors designed to resist lateral loads from unstable soil and rock.
07/08 - 08/09	Tombigbee River Slide Stabilization, Lomand Powerplant: Geotechnical consultant participating in providing solutions for a deep slide at the river dock which threatened a coal fired powerplant. The slide was stabilized using a series of deep foundation elements, including an innovative instrumentation and monitoring program to verify performance.
03/05-06/15	Port of Lake Charles, LA: Geotechnical consultant participating in providing solutions for slope stability problems along the Calcasieu River addressed by use of sheet pile structures and underwater grading.
03/91 - 08/92	U.S. 43 Slide, Littleville, AL: Geotechnical consultant for a slide stabilized using an innovative micropile and anchor solution, with instrumentation monitoring to verify performance.

16. Staff Experience

	Name	Megan Bourgeois, PE		MPR 16, 17
	Firm	Ardaman & Associates, Inc.	Years of Relevant Experience with this Employer	18
	Title	Project Engineer / Assistant Branch Manager	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2006/Civil Engineering **Meets MPR 16 & 17 Traffic Control Supervisor/LA/6-21-2028, DOTD Flagger/LA/8-14-2028 Certified NHI Drilled Shaft Inspector		
Active Registration Number /State/Expiration Date		0036725/LA/03-31-2026		
Year Registered	2011	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Historic Geotechnical Information & LA Soils Brief Description: Megan has over 18 years of experience in foundation design, including shallow foundations, embankment settlement analysis, and pile and drilled shaft foundation analysis. She is skilled in geotechnical instrumentation, construction phase testing, and laboratory management. Megan has managed numerous geotechnical investigations and served as Ardaman's program manager for LADOTD projects in Louisiana. She is also the director of the geotechnical engineering laboratory in Baton Rouge, overseeing laboratory operations, staff guidance, and certification maintenance.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/09 - ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. Project Manager. Megan manages this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction, x-ray scanning of unextruded samples to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. In addition, she performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report.			

16. Staff Experience

10/18- 06/21	SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA. Project Manager. Managed and oversaw all aspects of an extensive field investigation program which included 37 deep soil borings, including borings to depths of over 200 feet in over 80 feet of high flow water. She also managed a laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, oversaw the field resistivity (geophysical survey) testing program, and developed the data report.
04/21-ongoing	SP NOS. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Engineer. Leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, over various size rivers and creeks.
07/21-ongoing	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA. Project Engineer. Leads technical reviews pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA. Project Manager. Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. She also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.

16. Staff Experience

	Name	John Volk, PE		MPR 17
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	40
	Title	VP, Geotechnical Engineering Manager	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		MS/1984/Civil (Geotechnical) Engineering BS/1983/Civil Engineering		
Active Registration Number /State/Expiration Date		PE38377/LA/03/31/2026 Additional active licenses; PA, NJ, DE, NY, VA, OH, WI, IN, MD, WV, CT, TX, KY, SC, NC		
Year Registered	2013	Discipline	Civil (Geotechnical) Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geotechnical Investigation and Design Task Leader / Landslide Stabilization Brief Description: John is a geotechnical engineering manager with more than 39 years of experience in subsurface investigation, foundation design, levee design and landslide stabilization. He specializes in soft soils, ground improvement and landslide stabilization for major highway and levee projects across the United States. At AECOM's Philadelphia office, John has extensive experience in soil-structure interaction of complex structures and regularly utilizes PLAXIS and FLAC analyses on these projects. John regularly uses geotechnical instrumentation to inform of subsurface movements for landslide designs and to monitor designs.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/17-04/25	Mid-Barataria Sediment Diversion Project, Plaquemines Parish, LA: As Senior Geotechnical Engineer, John designed and reviewed pile foundations and deep soil mixing for key elements of this \$1.9 billion project in the soft clays of south Louisiana. He oversaw major structures, including the 250' by 600' inlet structure through the Mississippi River levee, a 2200' long railroad bridge, a 2200' long highway bridge, an 1800' long access bridge, and 30' high retaining walls. He led soil-structure interaction numerical analyses with FLAC, and analyzed the effect of fills on 24" to 30" open-end steel pipe piles up to 120' long, as well as 24" and 30" square concrete piles, and H-piles. He designed a static load test program to verify pile design. John designed 3.5 miles of earthen levees over very soft soils using stage construction (5 stages) with wick drains, high-strength geotextiles, and geotechnical instrumentation.			
06/90-09/06	Forest City Landslide, SDDOT Rt. 212, Gettysburg, South Dakota: This mile-wide and half-mile long landslide in a bentonitic shale (Pierre Shale Formation) was slowly moving a 4600-foot long bridge (Route 212) into the Oahe reservoir of the Missouri River. John involvement included extensive slope stability analyses and designing an 8M CY excavation to remove loading for the main landslide. He designed reinforced concrete shear pins to arrest movement in the bridge approach embankment. 120 shear pins (1 m by 3 m reinforced-concrete rectangular sections) were installed to depths of 90 to 140 ft with hydraulic grab clamshell technologies.			

16. Staff Experience

04/21–04/22	Gordie Howe International Bridge (GHIB), Detroit, MI: Lead Geotechnical Engineer responsible for Load-Transfer Platform design for eight retaining structures for Gordie Howe International Bridge (GHIB) in Detroit, Michigan. This \$6 billion design-build project included the design and construction of retaining walls to heights of 25 to 35 ft height over 80 ft of medium stiff clays. Precast concrete piles were utilized as the rigid inclusions and a pile cap was installed with high-strength geosynthetic reinforcement (3 layers) and crushed aggregate mattress above the cap. This solution reduced staging of the fills for the retaining walls.
09/06–09/13	LPV 105 to LPV 111, US Army Corps of Engineers, Soft Soil Stabilization/Ground Improvement/ Levee Design, New Orleans, LA: John led several projects in designing and reconstructing 25 miles of levees in New Orleans East (LPV 105 to LPV 111). He served as the lead geotechnical engineer for 7.5 miles of levees, utilizing wick drains, high-strength geotextiles, and deep mixing methods for ground improvement. For LPV 109.02a, a 7.5-mile reach in New Orleans East that included using I-10 as a levee, he raised the existing levees approximately four to seven feet with a protected side raise on virgin ground. The new levee construction required embankment construction in two stages to heights of 18 ft to 22 ft above existing grades of the tidal marsh. John accomplished the raises using stability berms, wick drains, high-strength geotextiles, and geotechnical instrumentation. He utilized DMM (soil-cement mixing) under the drainage structures and pump stations. For LPV 111, he was the reviewer for a 5.5 mile length of levees stabilized with DMM.
03/16–06/21	I-64 Reconstruction, Virginia Beach, VA: As Principal Engineer for the \$100 million I-64 Reconstruction in Virginia Beach, Virginia, John designed ground improvement for approximately 2 miles of soft ground construction. He evaluated and utilized ground stabilization techniques, including wick drains and surcharging, high-strength geotextile as base reinforcement, precast piled embankment, and lightweight fills (low-density cementitious fill). He employed extensive instrumentation to monitor the performance of the soft soils.
08/13–08/14	I-95 Landslide, Whitemarsh, MD: John was the Lead Geotechnical Engineer for a major landslide stabilization on I-95 NB in Whitemarsh, Maryland. This 50-ft high and 500-ft long landslide in a Potomac Clay Formation was causing major distress to I-95 north of Baltimore MD. He design included extensive slope stability analyses and evaluated the use of stone columns, drilled shafts as shear pins, and counterberms to arrest movement. Drilled shafts (6-ft diameter) were designed and constructed to depths of 60 ft and strapped together with a cap beam to stabilize the landslide.
01/00–09/06	Virginia DOT, Woodrow Wilson Bridge Reconstruction, Alexandria, VA: Representing Virginia DOT, Maryland State Highway, and FHWA as the General Engineering Consultant, John directed and oversaw the section designers in improving approximately 3 miles of soft ground construction on the Route 1 and Telegraph Road Interchanges in Alexandria, Virginia, and the I-295 Interchange in Oxon Hill, Maryland. He evaluated and utilized ground stabilization techniques such as wick drains and surcharging, high-strength geotextile as base reinforcement, deep soil mixing methods, and lime cement columns and lightweight fills (low-density cementitious fill and EPS geofoam). He designed two test embankments to evaluate these techniques. In Virginia, he directed extensive deep soil-cement column mixing (approx. \$15 million) to expedite embankment construction over soft subsoils. He designed 23,000 CY of geofoam for the Route 1 abutment and employed extensive instrumentation to monitor the performance of the soft soils.

16. Staff Experience

	Name	Alexis Edgar Templeton, PE		MPR 18
	Firm	Burns Cooley Dennis, Inc.	Years of Relevant Experience with this Employer	33
	Title	Principal/Sr. Geotechnical Engineer	Years of Relevant Experience with Other Employer(s)	11
Degree(s)/Years/Specialization		MS/1984/Civil Engineering, BS/1978/Civil Engineering		
Active Registration Number/State/Expiration Date		09128/MS/December 2026, 39422/LA/March 2026		
Year Registered	1984	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Geotechnical MS Soils Brief Description: "Eddie" is experienced in numerous facets of his discipline including analyzing soil and rock properties to determine their suitability for construction projects, site investigations, geotechnical testing, interpreting data to assess risks associated with soil stability, groundwater conditions, and seismic activity. He's overseen designing foundations, retaining walls, and other earth-support structures, ensuring compliance with safety and environmental regulations. He will collaborate with the multidisciplinary team to provide technical advice, develop solutions for geotechnical challenges, and support construction activities to ensure adherence to design specifications.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
11/01-04/24	I-20 Mississippi River Bridge Pier Movements, Warren County, MS: The I-20 Mississippi River Bridge was built in the late 1960s and early 1970s. Piers E-1 and E-2 experienced approximately 4 inches of lateral movement during the period from March 2000 to March 2002. BCD performed geotechnical investigations, instrumentation installation and monitoring, geologic explorations, and analyses as a sub-consultant to Modjeski and Masters, Inc. The explorations determined that the piers extend through an ancient landslide with a basal surface of sliding about 10 ft above the bearing level of Piers E-1 and E-2. The basal plane of sliding is in a stratum of high plasticity clay in the Forest Hill formation. The western limits of the unstable mass were established, and preliminary analyses were completed for several potential mitigation measures.			
02/05-11/06	Signal Hill Landslide, Warren County, MS: Evidence of landslide activity at the site was initially observed in 1977 shortly after construction of the US Hwy 61 4-lane bypass. Construction of an earthen berm in 1978 reduced the rate of movement dramatically. However, small intermittent movements continued, requiring occasional resurfacing of the southbound lanes. The rate of movement increased significantly in 2004, and an in-depth investigation of the landslide was initiated by MDOT. BCD was retained to assist in the field and laboratory investigations, to evaluate alternative remediation techniques, and to prepare the detailed design of the recommended stabilization system. The landslide impacts 15 acres, including 0.25 miles of US Hwy 61. The maximum depth of sliding is 70 ft in the Buccatunna Clay Formation. BCD recommended and designed a permanent ground anchor/buried anchor block stabilization system. The stabilization system includes 5 rows of anchors that provide a total anchor force of 97,000 kips. Anchor lengths range up to 260 ft.			

16. Staff Experience

09/23-11/23	I-20 Dick Hall Hospitality Station/Welcome Center, Warren County, MS: Geotechnical engineering services were provided for the replacement of the Mississippi Welcome Center. The facility is situated between the I-20 Mississippi River Bridge and the Highway 80 Mississippi River Bridge on the bluff overlooking the Mississippi River. Construction of the existing facility began in January 1980 and was completed in July 1982. The slopes in the vicinity of the project have a long history of instability. Prior to construction of the existing welcome center, ground improvement elements were constructed in the slope west of the building to improve slope stability. The ground improvement elements consist of 4-ft diameter stone columns spaced at 7 ft on center in a triangular pattern. BCD performed geotechnical explorations and analyses related to the construction of a new facility at the site.
08/19-01/21	Reunion Parkway / I-55 Interchange, Madison County, MS: Geotechnical investigation and analyses for the design of the proposed Reunion Parkway bridge over I-55 in Madison County, Mississippi. The bridge will have a total length of about 235 ft and will consist of two pre-stressed concrete beam spans. The abutments are to be supported on driven steel pipe piles, and the interior bents are to be supported on drilled shafts. The approach embankments will have a maximum height of about 25 ft. Anchored soldier beam and lagging walls will form the abutments. Services included: borings; laboratory testing; embankment settlement and stability analyses, axial pile/shaft capacity, and design of the retaining walls.
08/15-04/22	Pearson Road from Richland Creek to SR 468, Bridge over Kansas City Southern Railroad, Rankin County, MS: Geotechnical investigation and analyses for the design of the proposed Lake Harbour Drive Extension bridge over I-55 in Madison County, Mississippi. The bridge has a total length of about 180 ft and consists of four pre-stressed concrete beam spans. The abutments are supported on driven steel H- piles. The approach embankments have a maximum height of about 27 ft. MSE retaining walls with a maximum height of 31 ft were required along the flanks of the east and west approach embankments near the bridge ends.
10/13-08/20	Lake Harbour Drive Extension, Madison County, MS: Geotechnical investigation and analyses for the design of the proposed Lake Harbour Drive Extension bridge over I-55 in Madison County, Mississippi. The bridge has a total length of about 415 ft and consists of four pre-stressed concrete beam spans. The abutments are supported on driven steel H- piles, and the interior bents are supported on drilled shafts. The approach embankments have a maximum height of about 27 ft. Cantilever retaining walls with a maximum height of 15 ft were required along the flanks of the east and west approach embankments near the bridge ends.
10/13-08/20	Warren County Port, Warren County, MS: Geotechnical investigation and analyses for the design of a new port facility on a 1,700-acre tract along the left descending bank of the Mississippi River just south of the mouth of Hennessey Bayou. The port facility will include a slackwater slip, mooring structures, building pads, realignment of Hennessey Bayou, and approximately 7.7 miles of flood protection levee. The site is situated in the Mississippi River alluvial plain. BCD performed geotechnical and geologic explorations, including borings and CPT's, with maximum boring depths of 200 ft. Analyses included stability analyses of the proposed levee and excavated slopes for the slackwater slip and realigned bayou, and underseepage and settlement analyses for the levee.

16. Staff Experience

	Name	Mark Woodward, PE			MPR 18
	Firm	Ardaman & Associates, Inc.	Years of Relevant Experience with this Employer	7	
	Title	Principal Geotechnical Engineer	Years of Relevant Experience with Other Employer(s)	36	
Degree(s)/Years/Specialization		BS/1982/Civil Engineering MS/1986/Civil Engineering MS/2019/Risk Management			
Active Registration Number /State/Expiration Date		29797/MS/12-31-25 PE.0024206/LA/09-30-25			
Year Registered	LA 1991; MS. 2019	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geotechnical MS Soils Brief Description: Mark, a seasoned geotechnical engineer, dedicated 36 years to the USACE New Orleans District, culminating his career as Deputy Chief of the Geotechnical Branch and Dam and Levee Safety Program Manager. He managed diverse departmental functions, including engineering, drilling, and materials testing, and led significant projects across the Mississippi River and Southeast Louisiana. His expertise spans designing foundational elements for dams, levees, and hydraulic structures, as well as coastal restoration and mitigation projects. Since 2018, Mark has served as Principal Geotechnical Engineer at Ardaman, overseeing major foundation designs for various sectors across multiple states.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
01/14-12/16	FORT ADAMS REVETMENT, MRL 306.6 to 311.0-L, Wilkinson County, MS. Deputy Branch Chief, Geotechnical Branch, New Orleans District, US Army Corps of Engineers (USACE), in responsible charge of oversight and review of global stability analysis of the left descending bank of the Mississippi River in the state of Mississippi directly across from the USACE Old River Control Complex.				
01/21-12/22	VICKSBURG SUBSTATION EXPANSION, FREETOWN ROAD, Vicksburg, MS. Principal Engineer, Provided oversight and review of recommendations for both deep and shallow foundations for support of the proposed substation structure loads and site preparation.				
11/19 – 01/20	ENTERGY, ROXIE SUBSTATION EXPANSION: Roxie, MS. Principal Engineer. Mr. Woodward was Principal Geotechnical Engineer overseeing subsurface exploration, lab testing, resistivity testing, and engineering analyses providing recommendations for both deep and shallow foundations.				
12/21-2/24	PINE TREE SUBSTATION. Hernando, MS. Principal Engineer. Mr. Woodward served as Principal Engineer for the project consisting of foundation recommendations, site grading, stability and settlement.				
05/83-01/15	MISSISSIPPI RIVER AND TRIBUTARIES PROJECT – GEOTECHNICAL INVESTIGATION, DESIGN AND CONSTRUCTION OVERSIGHT, LA. Senior Geotechnical Engineer. Conducted or oversaw the review of existing geotechnical data and implementation of field investigation to obtain subsurface data, selection and reduction of laboratory testing, geotechnical engineering analyses, development of conclusions and recommendations, final report preparation and construction oversight for over 50 levee and floodwall projects on the Mississippi River and Atchafalaya Basin. Responsible for providing final geotechnical approval of 1,000 permits a year for construction activities on and around levees.				

16. Staff Experience

03/16-05/18	PALMETTO REVETMENT, MRL 319.2 to 325.9-L, Wilkinson and Adams Counties, MS. Deputy Branch Chief, Geotechnical Branch, New Orleans District, US Army Corps of Engineers (USACE), in responsible charge of oversight and review of global stability analysis of the left descending bank of the Mississippi River in the state of Mississippi between river miles 319.2 and 325.9-L.
01/21 – 12/22	ENTERGY, VICKSBURG SUBSTATION EXPANSION: FREETOWN ROAD: Vicksburg, MS. Principal Engineer. Mark provided oversight and review of recommendations for both deep and shallow foundations for support of the proposed substation structure loads and site preparation.
12/21 - Ongoing	MEDIALINK, TELECOM HORIZONTAL DIRECTIONAL DRILLING AND LEVEE CROSSING: Redwood, MS. Principal Engineer. Mr. Woodward served as Principal Engineer for two Horizontal Directional Drills at Yazoo River and Hwy 61 borrow canal, which includes crossing the Federal Yazoo River Levee.
11/18 – 08/19	GEORGIA-PACIFIC WFS, LLC, TOUCHLESS SCALING PROJECT: Brookhaven, MS. Principal Geotechnical Engineer. Mr. Woodward oversaw drilling and testing of borings for this project.
01/19-12/23	SP NO. H.013987 / RURAL BRIDGES PHASE I, Claiborne Parish, LA. Senior Geotechnical Engineer. The Rural Bridges project initiative is to replace many older bridges throughout the State of Louisiana. The geotechnical design includes geotechnical exploration, analyses, and foundation recommendations for 3 bridges (recall numbers 016831, 016842, and 016850).
01/06-05/06	HOMEPLACE LEVEE WITH GROUND IMPROVEMENT, P24. Plaquemines Parish, LA. Lead Geotechnical Engineer. In the aftermath of Hurricane Katrina, Mr. Woodward was assigned to USACE Task Force Guardian as Geotechnical Engineer for Plaquemines Parish to restore levee damage to pre-Katrina conditions. The Homeplace Floodwall had translated due to loading and had to be removed. In order to replace the risk reduction system with an earthen levee, the foundation had to be improved. Using knowledge gained from full scale test section coordinated pre-Katrina for Deep Mixing, Mark designed ground improvement and reviewed/ approved all construction submittals and oversaw construction.
11/23-05/24	PROJECT MAGNOLIA, GEORGIA-PACIFIC, Monticello, Lawrence County, MS. Principal Engineer, Provided oversight and review of recommendations for site preparation, foundation support of the proposed structures, and pavement design for plant expansion.
05/18-08/19	SP NO. H.011152.5/ I-12 WIDENING (US 190 to LA 59). St. Tammany Parish, LA. Principal Engineer. Provided technical oversight for this project which included the widening of Interstate 12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Providing oversight for an effort to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments.
06/98-07/98	SEVEN OAK DAM, San Bernardino, CA. Embankment Engineer. Served as the embankment engineer for the 600-foot-high earth fill Seven Oaks Dam during construction. This dam was for flood control, with no constant pool against it. It was a zoned dam with a clay core and varying rock gradations towards the upstream and downstream sides. Performed many large diameter sand cones on the rock fill. Looked for cracks at edges of the dam against the canyon wall so shotcrete could be applied, ensured that the clay core was not contaminated by equipment traffic, ensure proper gradation and compaction, monitored outlet works, spillway and tunnel construction. Monitored blasting and clay delivery system.

16. Staff Experience

	Name	Timothy King, PG		MPR 19
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	37
	Title	Associate Vice President, Principal Geologist-Geophysical Team Leader	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BS/1988/Geology		
Active Registration Number /State/Expiration Date		PG001254-PG/PA/09/2025		
Year Registered	1995	Discipline	Professional Geologist	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geotechnical Investigation Brief Description: Tim has built and is the leader of a geophysical services team in the Germantown, Maryland office. The team consists of eight staff ranging with experience levels ranging from junior to senior-level. As team leader, Tim's management responsibilities include hiring, mentoring, technical oversight, scheduling and performance reviews. His experience includes geohazards assessment and engineering geophysics, engineering geology, and hydrogeology applied to site investigations to evaluate subsurface conditions related to pipelines, storage tanks, terminals, processing facilities, well pads, tunnels, mines, highways, bridges, dams, and other civil infrastructure. He has been responsible for technical and management aspects of investigations at hundreds of sites across the United States. Tim has expertise in the application of geophysics to engineering and environmental problems. Geophysical and nondestructive testing methods he routinely utilizes include , seismic refraction, multichannel analysis of surface waves, seismic reflection, tomography, microgravity ground penetrating radar, marine geophysics, vibration monitoring, electromagnetics, resistivity, geophysical borehole logging, and crosshole and downhole seismic surveying.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/00-10/08	Project Geologist, Woodrow Wilson Bridge Replacement Project, Federal Highway Administration, Alexandria, VA: Managed geotechnical/geological field investigation for a large bridge and highway replacement/expansion project. Conducted soil borings, in-situ testing, vertical seismic profiling, ground penetrating radar and multichannel analysis of surface waves (MASW) investigations as part of the geotechnical investigation, feasibility study and construction phase services for the new bridge and related expansion of I-495 in Maryland and Virginia. The GPR surveys successfully located subsurface voids from ground subsidence associated with jack and bore tunneling for new utility line crossings. The MASW survey was conducted to aid delineation of soft soil zones associated with dredging and hydraulic filling at the existing bridge approach on the Maryland side.			

16. Staff Experience

1/01 to 9/01	Geologist, Proposed Great River (Charles W. Dean) Bridge, Arkansas Department of Transportation, , Desha County, Arkansas and Bolivar County, MS. Conducted downhole seismic velocity profiling as part of the geotechnical earthquake engineering assessment for the proposed 1,400 feet long cable-stay bridge and approximately 20,000 feet long approach embankments
01/09–Present	Principal Geologist, On-Call Bridge Design Services for the Maryland State Highway Administration, Statewide, MD. Designed and conducted detailed non-destructive testing of the US 40 over Patapsco River at Baltimore County/Howard County Border. The investigation consisted of high resolution penetrating radar (GPR) surveying of the existing concrete arches to detect and delineate voids and other features of potential structural concern. The bridge repairs include construction services for this 3-ribbed – 180-foot span concrete spandrel arch including review of shop drawings and review of temporary bridges over the Patapsco River.
1/95 to 1/96	Geologist, Cape Girardeau (Bill Emerson Memorial) Bridge, Missouri Department of Transportation, Cape Girardeau, MO. Conducted downhole seismic velocity profiling as part of the geotechnical earthquake engineering assessment and design for the 4,000 feet long bridge with 1,150 feet cable-stayed navigation span.
1/02 to 8/08	Project Geologist, Maryland State Highway Administration, I-70 Expansion, Frederick, MD. As part of the design of lane expansions, new interchanges and new access roads for Interstate I-70 from MD Routes 144 to 355, conducted a comprehensive geophysical investigation to characterize subsurface conditions and aid in locating potential sinkholes and delineating Karst conditions. The geophysical investigation consisted of over 20,000 linear feet of electrical resistivity imaging surveys and provided detailed mapping of subsurface conditions.
1/16 to 6/22	Principal Geologist, Maryland State Highway Administration, Subsurface Utility Mapping and Avoidance, Statewide On-Call Engineering Services Contracts MD. Designed, managed and conducted geophysical investigations as part of design projects statewide. Investigations include subsurface utility and avoidance surveys utilizing ground penetrating radar (GPR), electromagnetics (EM) and pipe and cable locators.
1/95 to 1/96	Geologist, Seismic Retrofit Evaluation, I-57 Bridge Over Illinois Route 3, Illinois Department of Transportation, Cairo, IL. Conducted downhole seismic velocity profiling as part of the geotechnical earthquake engineering assessment for the bridge.

16. Staff Experience

	Name	Michael Wright, RPG			MPR 19
	Firm	Burns Cooley Dennis, Inc.	Years of Relevant Experience with this Employer	5	
	Title	Geologist	Years of Relevant Experience with Other Employer(s)	40	
Degree(s)/Years/Specialization		BS/1980/Geology			
Active Registration Number/State/Expiration Date		0241/MS/12/2025			
Year Registered	1999	Discipline	Geologist		
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Geological Investigation Brief Description: Michael served as Executive Director for the Mississippi State Board of Registered Professional Geologists from 2016 to 2020. Prior to that, he spent 31 years with the Geotechnical Branch – Materials Division at the Mississippi Department of Transportation as a Geologist IV, responsible for the operation and supervision of 2 geotechnical drill crews for the investigations of bridge sites, retaining walls, hydraulic structures, landslides, and cut and fill sections associated with the State's highway system.			
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
10/98-10/99	U.S. 90 Over East Pascagoula River Load Test Project: Design plans were reviewed for the pre-design load test project which included axial load testing of each foundation type, and dynamic and static lateral testing of pile and shaft groups. The load test project was conducted in the river to accurately reflect site conditions. Geotechnical aspects of the construction including the instrumentation of piles, shafts, and pipe piles were monitored. Load testing of the piles, shafts, and pipe piles was supervised. Dynamic axial load testing (driving) of the drilled shafts, supplemental axial load tests on piles and shafts in the foundation groups, and static and dynamic testing of pile and shaft groups were supervised and monitored. World records achieved in both the static and dynamic lateral load tests. This project, its designers, and contractors were nominees for the 1999 NOVA Award - The NOVA Award is an international recognition for innovative construction techniques. The nomination was for the method of applying full-scale dynamic loads to model ship impact loading conditions on bridge foundations.				
06/96-06/02	U.S. 82 Over the Mississippi River at Greenville. Cable-stayed bridge: Geotechnical borings in the Mississippi River for the river piers and approach piers were supervised by MDOT Geotechnical Branch during the design phase. The drilled shaft construction and load testing for the river piers and approach piers during the early phases of the construction.				

16. Staff Experience

05/93-06/96	U.S. 90 Over East Pascagoula River. Geotechnical investigation for relocated U.S. 90 over the East Pascagoula River - a structural high rise to replace the existing drawbridge. Design criteria for the bridge warranted additional information to finalize the foundation recommendations. Conceptual plans were developed for a pre-design load test project which included driven pre-stressed piles, multiple sizes of post-tension pipe piles (large diameter), and multiple sizes of drilled shafts. Osterberg load cell load testing was completed for each foundation type.
11/04-04/07	U.S. 61 Signal Hill Landslide, Warren County. The 15+ acre slide was located on the Loess Bluff which borders the Mississippi River. The landslide which was first observed in 1977 when it was threatening the newly constructed U.S. 61 bypass. Repairs in 1978 were limited by right-of-way restrictions. Significant movement in 2004 required a detailed geotechnical investigation which included over 50 borings, slope inclinometers, and piezometers. Detailed geological cross-sections were developed for the slide and the failure surfaces were defined. Burns Cooley Dennis was retained by MDOT to develop plans to stabilize the slide within the existing right-of-way. Two hundred fifty-two permanent ground anchors and blocks were used to stabilize the slide. At that time, this was reportedly the largest project of its kind.
04/91-07/97	U.S. 61 Yokena Landslides, Warren County. The 10+ acre landslides were located on the Loess Bluff which borders the Mississippi River. The landslides developed after U.S. 61 was 4-laned a few years earlier. Two lanes were added to the Bluff side of U.S. 61 which resulted in the toe of the Bluff being removed. Removal of the toe of the slope, a high water table in the Loess silt (the main component of the Bluff), old landslides, and lateral and transverse faults each contributed to the instability of the Bluff both prior to and after the highway construction. Repair of the slide required a combination of slope changes, excavation of the failed material, and interconnected drilled shafts back-filled with sand and gravel to serve as vertical drains. Horizontal drain pipes were used to remove the water from the shafts.

16. Staff Experience



Name		George B. Burkley			MPR 20	
Firm		Locus, LLC		Years of Relevant Experience with this Employer		26
Title		Partner		Years of Relevant Experience with Other Employer(s)		15
Years/Specialization			BS/Marine Transportation/California Maritime Academy/1989 MS Environmental Science and Policy/Johns Hopkins University/1998			
Registration Number/State/Date			NA			
NA	NA	Discipline	NA			
Contract Role(s) / Brief Description of Responsibilities			Contract Role: Navigation Analysis & Simulations Brief Description: George’s vision and technical insights have guided the development of both regulatory and special interest issues in the maritime industry. He designs and oversees state-of-the-art waterways, ship simulators, and manned models. Through his leadership and support of Northshore Technical Community College’s emerging maritime curriculum, he has been able to guide Louisiana’s next generation of educated mariners towards success.			
Experience Dates (mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).				
01/10		2010 Simulation modeling and research for “Baton Rouge Loop” bridge project, Baton Rouge, LA				
01/13		2013 Simulation modeling and research for Quebec City pilots, Valero Ultramar Dock, Quebec, Canada				
01/14		2014 Simulation modeling and research for Cameron LNG Marine Berth and Navigation, Lake Charles, LA				
01/16		2015 Simulation modeling and research for Houston Bayport navigation channel approach, Port of Houston, Houston, Texas, creation of both 1/25th scale physical port model and virtual models				
01/16		2016 Simulation modeling and research for Houston Barbours Cut Container Terminal				
01/16		2016 Simulation modeling and research for Venture Global, Calcasieu River, Lake Charles, Louisiana, US Dept. of Energy “FERC Permitting” and US Coast Guard Waterway Suitability Simulations				

16. Staff Experience

10/16 – 11/17	2017 Simulation modeling in partnership with US Army Corps of Engineers, ERDC, Process "CFR 216" Simulations for the Port of Houston
05/18 – 05/19	2018 Simulation modeling and simulations for Port of Freeport and Freeport LNG, Brazos Texas
06/18 – 11/18	2018 Simulation modeling and research for Commonwealth LNG, Lake Charles, Louisiana, US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations
02/18 – 06/18	2018 Simulation modeling and research for CH-IV LNG, St. James, Louisiana, US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations
10/18 – 08/19	2019 Simulation modeling and research for two separate Venture Global LNG terminals "Plaq LNG and Delta LNG," Plaquemine, Louisiana, US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations
01/15 – 04/15	2015 Simulation modeling and research for feasibility testing of the Brownsville LNG facility in the Port of Brownsville Texas
08/17 – 01/18	Consultation in support of preparations for the ship simulation study relating to the U.S. Army Corps of Engineers 216 Study

16. Staff Experience

	Name	Akhil Chauhan, PE, PTOE, PMP			MPR 21
	Firm	Arcadis	Years of Relevant Experience with this Employer		17
	Title	Principal Engineer	Years of Relevant Experience with Other Employer(s)		5
Degree(s)/Years/Specialization		MS/2003/Transportation Engineering; BS/2001/Civil Engineering			
Active Registration Number /State/Expiration Date		PE: 0033703/LA /09-2026; PTOE: 2544/USA/11-2026; PTP: 246/USA/ 12-2027; PMP: 1444676/USA/08-2026			
Year Registered	2008	Discipline	Civil		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Traffic Modeling & Analysis Task Leader / Traffic Modeling Brief Description: Akhil is a principal traffic engineer with 22 years of applied research and industry experience in the fields of highway safety, traffic engineering, traffic modeling and simulation, Stage 0 Feasibility Studies, transportation planning, demand modeling/forecasting, intersection/corridor analysis, safety studies, NEPA studies, and access management. Akhil has successfully led, managed, and mentored numerous projects related to transportation modeling, simulation, and planning for public agency clients located across the nation including several state Departments of Transportation. He is proficient in the use of many macro-, meso-, and microscopic traffic simulation software programs such as HCS, Vistro, Synchro, SIDRA, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
04/13-10/20	LADOTD, US 11 Railroad Bridge Replacement and Corridor Improvements Environmental Assessment, St. Tammany Parish. Principal Engineer. Responsible for crash analysis, operating speed tabulations, intersection and corridor analysis, line and grade and public outreach for the proposed widening of US 11 between US 190 (Gause Boulevard) and I-12 in Slidell. Proposed improvements include the replacement of a bridge crossing the Norfolk Southern Railroad. Critically, this project includes analysis of several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.				
07/12-11/14	LADOTD, Chef Menteur Bridge and Approaches Environmental Assessment, Orleans Parish, LA. Principal Traffic Engineer. Responsible for the high-priority bridge replacement EA and Line and Grade Study, responsible for coordinating traffic impact study. Traffic Impact Study coordination included reviewing available data with DOTD traffic engineer to identify gaps and propose additional data needs, investigating planned transportation improvement projects and traffic generators with DOTD and New Orleans RPC, reviewing design hour volumes (DHVs), average daily traffic (ADTs), and peak hour, and 24-hour truck percentages, and reviewing intersection and road segment capacity analyses.				

16. Staff Experience

11/20-present	LADOTD, I-10 CMAR, East Baton Rouge Parish, LA. Principal Engineer. Responsible for technical advisory and QAQC of all traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.
08/18-12/19	LADOTD, I-10 Widening Mesoscopic Model and TMP, East Baton Rouge Parish, LA. Principal Engineer. Responsible for supervising development of mesoscopic traffic model used for this project. The object of the study was to develop an existing conditions model. Responsibilities included defining study area, assessing data needs, developing data collection plan, preparing calibration documentation, and preparing model documentation.
01/18-Ongoing	LADOTD, I-20 Mesoscopic Model and TMP Using Dynameq, Bossier Parish, LA. Principal Engineer. Responsible for supervising development of mesoscopic traffic model to predict queuing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project is anticipated to disrupt traffic in this critical portion of I-20. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, safety analysis, operational analysis, assistance with public outreach, development of a Level 4 TMP, and development of work zone mitigation strategies.
12/13-06/15	LADOTD, LA 3235 Stage 0 Feasibility Study, Lafourche Parish, LA. Project Manager. Responsible for the preparation of a formal traffic and access management Stage 0 study, in accordance with DOTD Stage 0 Manual of Standard Practice, that analyzed alternatives and enhanced mobility and safety on LA 3235. Main tasks included traffic data collection, warrant studies, traffic analysis, safety analysis, development of conceptual layouts, and public outreach. Intersections found to warrant signalization were also modeled in unconventional designs including U-turns, J-turns, and RCUTs. A preliminary cost estimate and conceptual layout drawings were also produced. During the study, it was found that crash modification factors (CMFs) for many access management principles are not found in the HSM's Part C predictive methods. Therefore, proposed a corridor-based approach in which Part D CMFs were applied at the corridor level after using Part C to predict future no-build crashes. This approach predicted changes to crash frequency, crash type, and severity type for the two build alternatives. The predicted crashes provided the opportunity to perform a cost/benefit analysis based on safety.
05/19-present	LADOTD, I-20/I-220 Interchange Improvements and BAFB Access Design-Build, Bossier Parish, LA. Principal Engineer. Responsible for overseeing the development of addendum to Interchange Modification Report, Transportation Management Plan, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20/I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.
01/14-02/17	LADOTD, Traffic Engineering Retainer - US 71 Corridor Traffic and Safety Study – Phase 1, Rapides Parish, LA. Project Manager. Responsible for the preparation of a corridor study for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included traffic data collection, warrant studies, traffic analysis, safety data analysis, and development of conceptual layouts. Data collection effort included automated one-week counts, manual turning movement counts and spot speed studies. A preliminary cost estimate and conceptual layout drawings were also produced during the study.

16. Staff Experience

	Name	Laurence Lambert, PE, PTOE, PTP		MPR 21
	Firm	Vectura Consulting Services, LLC	Years of Relevant Experience with this Employer	9
	Title	Traffic Analysis/Maintenance of Traffic/TMP/Intersection/Signal Design	Years of Relevant Experience with Other Employer(s)	18
Degree(s)/Years/Specialization		BS/1997/Civil Engineering; MS/2006/Civil Engineering (Transportation focus); MBA/2010		
Active Registration Number /State/Expiration Date		PE: 0029901/LA/3-31-2026 PTOE Exp. 2/3/2028		
Year Registered	2002	Discipline	Civil	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Traffic Data Collection Brief Description: Laurence is an experienced traffic engineer who has developed traffic management plans and conducted traffic studies. His experience includes serving as Project Manager for the College Drive Corridor Enhancement project, where he developed Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/20-09/21	College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA. Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle/pedestrian/transit observations.			
10/21-03/22	H.013256.5 I-10 ITS Scott to Lake Charles. Lead Traffic Engineer. Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.			
07/19-ongoing	MOVEBR New Capacity Projects Program Management, Baton Rouge, LA. At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided peer review for the traffic studies for Ben Hur Road and Lee Drive.			
03/10-11/11	S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector, Shreveport, LA. This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).			

16. Staff Experience

04/04 - 12/04	I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen, Baton Rouge, LA. Laurence provided the traffic analysis for a highly unique reconfiguration of interstate ramps that included frontage roads and an overpass of I-10 for new an interchange at Picardy. HCS and VISSIM were the primary analysis tools for the analysis. As part of the design team that developed the concept for this project, Laurence performed feasibility studies, developed design criteria, and coordinated with city, state and federal agencies for approvals as well as gathered public input. Laurence prepared traffic signal timings and designs that included cost estimates for the project.
10/21-03/22	H.011504 Alexandria ITS Phase 2. Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
09/18-02/19	H.013261.1 I-110 ITS Deployment Systems Engineering Analysis. Project Manager. As a subconsultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
06/12-12/12	Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, LA. Project Manager. Laurence led a feasibility study for ramp meters along I-10 in Baton Rouge, analyzing 17 on-ramps under multiple design scenarios. He oversaw QA/QC, interpreted model results, and coordinated with local agencies to incorporate related projects, including DOTD's I-10 Widening (Phases 1 & 2) and GLP projects on Essen Lane and Highland Road.
09/16-04/17	H.004957.5 I-12 To Bush-LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, LA. Laurence served as lead traffic engineer for a DOTD traffic study on the new LA 3241 alignment, analyzing existing and future traffic conditions per standard procedures. He collaborated with NORPC and District 62 to develop design year volumes using TransCAD model data. The study focused on improving roadway safety and efficiency in line with DOTD access management policies. Laurence and Brin collected 7-day, 24-hour classification counts, peak-period turning movement counts, and speed data. He also developed a VISSIM simulation model for the preferred alternative.
07/16-01/17	FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users, Norfolk, VA. At the request of the FHWA division office for Virginia, Laurence was asked to peer review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/23-10/23	H.014591.5 I-12: US 61 Bridges Girder Repairs, Baton Rouge, LA. Laurence was the project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD.
04/18-2/21	H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales, Ascension, LA. Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.

16. Staff Experience

	Name	Jonathan McDowell, PE		MPR 22, 23
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	22
	Title	Associate Vice President, Senior Project Manager	Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization		BS/1996/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.0030508/LA/3.31.27 PE.0018686/MS/12.31.2026 Additional active licenses in AR, TX		
Year Registered	2003	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Roadway Design Task Leader/Alternative Corridor Evaluation/Screening/Maintenance of Traffic Brief Description: Jonathan will play a lead role in roadway design, benefiting from over 28 years' experience as a Project Engineer and Project Manager for a wide variety of transportation and public infrastructure projects, including the development and review of horizontal and vertical geometry. His roles have included line and grade for feasibility studies, planning, NEPA Environmental studies, preliminary and final design. He also has experience with contract administration and construction engineering and inspection for all modes of transportation projects involving interstate highways, urban and rural roadways, bridges, streetcars, railroads, drainage canals and culverts, port facilities, and airports. Through his experience, he understands the project delivery process required to bring a transportation project from an idea to a built reality. His computer skills include Civil3D, Microstation, Inroads, MS Office, MS Project, HEC-RAS, STAAD, ArcView, and various other design software platforms.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/02-12/09	I-49 South Environmental Impact Statements, Lafayette, Iberia, St. Martin, St. Mary, Lafourche, St. Charles, and Jefferson Parishes. Developed horizontal and vertical geometry for the upgrade of US 90 to I-49 for four segments of independent utility: Lafayette Airport to LA 88, Wax Lake Outlet to Berwick, LA 1 to I-310, and I-310 to the Westbank Expy. Geometry included mainline interstate and potential interchanges. Authored the Engineering Reports for all four segments.			
07/15-ongoing	I-49 Connector, Lafayette Regional Airport to I-10/I-49/US 167 Interchange, DOTD, Lafayette Parish, LA. (H.004273.5). Project Manager, Leadership Team Member, and Railroad Coordination & Design Task Manager for a NEPA Supplemental EIS and Design of a 5 mile urban freeway corridor. The project includes a Context Sensitive Solutions process that is occurring concurrently with the environmental process. The project includes a signature bridge and an urban master plan for local road and frontage road connections. The project has considered implementation strategies, potential railroad alignment modifications, potential replacement of up to three at-grade crossings with underpasses, and possible modifications to an Amtrak station platform. Highway overpass for the mainline viaduct and the interchange ramps are being considered as well. In addition, Jonathan will also perform tasks associated with highway geometrics, highway traffic, and environmental and public involvement tasks.			

16. Staff Experience

07/08-07/18	LADOTD (H.001779), Red River Bridge at Jimmie Davis Highway (LA 511) Feasibility Study, Environmental Assessment, & Supplemental EA Bossier and Caddo Parishes, LA. Lead roadway design engineer to design geometric layout alternatives to improve the capacity and accommodate pedestrian and bicycle access for the bridge crossing of the Red River along Jimmie Davis Highway. Tasks included the development of the Purpose and Need Statement, the project design criteria, and the geometric alternatives of the bridge, interchange ramps, and roadway approaches. Proposed a superstreet concept.
11/04-12/07	LADOTD (State Highway Project No. 700-92-0016), Florida Avenue Bridge over IHNC, New Orleans, LA. Deputy Project Manager and Project Engineer responsible for the geometric design of a high-level bridge with 158 ft vertical clearance and associated interchange ramps and approach roadways. Supported utility and railroad coordination.
09/17-12/23	State Project No. BA-0153: Mid Barataria Sediment Diversion, Coastal Restoration and Protection Authority of the State of Louisiana, Plaquemines Parish, LA. Task manager and lead engineer for the relocation of LA 23 and the NOGC Railroad tracks across the proposed sediment diversion. Developed horizontal and vertical geometry for the highway relocation and the rail relocation across the diversion canal. Supported the drainage design and utilities relocations tasks. Led PS&E activities for the preliminary and final design of the roadway and the rail relocation.
07/23 - ongoing	LADOTD (H.001970), LA 561 Boeuf River Bridge near Hebert, Caldwell & Richland Parishes, LA. Road design lead engineer for the replacement of a truss bridge with a new precast girder bridge along the same alignment. Designed vertical alignment for updated hydraulic design criteria and reduce right-of-way acquisition. Designed horizontal and vertical geometry for a gravel local road to serve adjacent residences. Assisted with drainage design and utilities coordination.
02/16-04/17	MS State Project Nos. BR-2705-00(005) & BR-9999-01(249): Preliminary Roadway Plans for Bridge Replacements on SR 172 and SR 182, Mississippi Department of Transportation (MDOT), Lowndes & Tishomingo Counties, MS. (2016-2017). Task Manager for the development of Phase A Preliminary Plans and Right-of-Way Maps for two bridge replacement projects in northeast Mississippi. Road design activities include road geometrics, hydraulics, erosion control considerations, traffic control and determining additional right-of-way requirements.
12/16-10/18	MS State Project Nos. BR-0066-01(004): Final (Phase B) Roadway Plans for Bridge Replacement on SR 57 over Red Creek, Mississippi Department of Transportation (MDOT), Jackson County, MS. Task Manager for the development of Phase B Final Plans for the replacement of a historic truss bridge with a post tensioned span bridge in southeast Mississippi. Road design activities include line and grade, hydraulics, erosion control considerations, temporary traffic control, quantity estimation, and assembly of standard and special details.
09/22-08/24	US 49 at Oak Lane Improvements, MDOT, Gulfport, MS. Provided Quality Control Review and Support to the Design Team for the addition of directions turn lanes turn lane and associated drainage improvements for a 6-lane arterial in Gulfport, MS.
12/22-ongoing	Cedar Lake Bridge Replacement, City of Biloxi, MS. Developed alternative road alignments for the replacement of a bascule bridge with a new mid-height fixed bridge. The alignment study also considered connections to the D'Iberville Shopping Center east of Cedar Lake Road by developing a parallel road to I-10. Providing project oversight and quality control review of the 30% Design plan set.

16. Staff Experience

	Name	Greg Trahan, PE, RSP1		MPR 22
	Firm	AECOM Technical Services, Inc	Years of Relevant Experience with this Employer	19
	Title	Traffic Safety/Maintenance of Traffic/TMP	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2005/Civil Engineering		
Active Registration Number /State/Expiration Date		PE.0036041/LA/03/31/25 RSP1 No. 883/Exp. 2028		
Year Registered	2011	Discipline	Civil Engineering	
Other Training		Contract Role: MS Roadway Design/Maintenance of Traffic Brief Description: ATSSA Traffic Control Supervisor Refresher – LA State Specific (2027)/ATSSA Flagger Course LA DOTD Process and Report Parts 1, 2, and 3 (2018)		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Maintenance of Traffic/TMP/Traffic Engineering Brief Description: Greg will assist in the design of the Maintenance of Traffic (MOT)/TMP plans and traffic engineering analysis. He has almost 20 years of experience in various roadway and traffic projects. He has both assisted and managed roadway plans from the preliminary stage to Final Plans. He has also both assisted and performed traffic studies for corridor development and intersection design. His experience with these projects have allowed him to perform the design and coordination of many different types of disciplines; including roadway, drainage, maintenance of traffic, and signal design.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
05/13-Ongoing	DOTD, State Project No. H.001779.5 Red River Bridge at Jimmie Davis Highway (LA 511) EA, Bossier and Caddo Parishes, LA: Assisted in preparing a feasibility study to widen the existing crossing of the Red River along Jimmie Davis Bridge and to connect shared use bicycle and pedestrian paths on each side of the river. Task included geometrics study of highway and interchange ramps to produce three feasibility alternatives.			
11/04-12/07	DOTD State Project No. 700-92-0016, Florida Avenue Bridge over IHNC, New Orleans, LA: Assisted in the geometric design of two interchange ramps connecting to Florida Ave. Bridge and two relocated parking areas for two major public installations in the project area. He assisted in the design of girder splices for the steel main span alternative. He also assisted in the preparation of quantity calculations and cost estimates for the steel main span alternative.			

16. Staff Experience

09/17-Ongoing	Coastal Protection and Restoration Authority, LA 23 Over Mid-Barataria Sediment Diversion, Plaquemines Parish, LA: Project Engineer that assisted in the Design Plans for the new bridge and roadway structure over the new sediment diversion. The project consists of a new concrete precast girder bridge, approximately 2,200 feet in length, and the connecting asphalt roadway. Design Plans include Plan and Profile sheets, Drainage Plan and Profile sheets, Sequence of Construction Plans. There will be multiple construction activities being conducted at one time, the sequence of Construction is a critical element of design in order to manage traffic and maintain roadway operations even if evacuation routes would be required.
07/14-12/14	DOTD, Krotz Springs Bridge and Business US 90 Bridge In-Depth Bridge Inspection, LA: Project Engineer that assisted in the Maintenance of Traffic Plans for the inspection of the Krotz Springs Bridge and the Business US 90 Bridge. These plans included provisions to detour traffic from the closed portions of the bridge or entrance ramps.
02/07-06/10	Baton Rouge Dept. of Public Works, Siegen Lane Improvements, Highland Rd. to 650' south of Perkins Rd., Baton Rouge, LA: Project Engineer that assisted in the design and plan development to widen 1.18-mile segment of Siegen Lane to a four lane boulevard. Tasks include the geometric design of the roadway, subsurface drainage, and the development of the sequence of construction. The drainage area encompassed approximately 225 acres. A study was conducted on the multiple detention ponds, using a pond modeling program to determine if the box culvert system would need to be upgraded. A HEC-RAS model was conducted on an existing drainage ditch crossing Siegen Lane to ensure that the proposed drainage would not exceed the existing tail water elevation. The sizing and spacing of culverts and inlets was determined using the DOTD HYDRWIN hydraulics program. Prepared quantities and cost estimates for the project.
05/14-Ongoing	DOTD, Earhart Expressway Extension to US 61, Jefferson Parish, LA: Project Engineer for the traffic study involving the new extension of the Earhart Expressway a six lane urban freeway, to Airline Drive, a four-lane highway, for a total of ten lanes. The study will include analyzing existing and future conditions along the US 61 (Airline Highway) and LA 3154 (Dickory Avenue). As part of this project Greg is analyzing design alternatives, traffic data collection (speed and vehicular classification) along the corridor, and crash data.
12/01-04/17	DOTD, Safety Studies Retainer Contract, Low Cost Safety Improvements, Statewide, LA: Project Engineer for the preparation of Safety Improvement Plans (SIP) for 282 systemic curves located throughout the state of Louisiana. The tasks associated with this project include; site visits to the curves, plan preparation of safety countermeasures for each curve, cost estimates for the plan set, and a pre-construction meeting with each DOTD district. Each site visit includes; a ball bank test, photo and an existing conditions documentation of each curve. The plan preparation includes deriving safety countermeasures at each curve location, preparing a letter size plan set of the safety countermeasures, including the Crash Modification Factors (CMFs) within the plan sheet, and preparing cost estimates for the safety countermeasures. After the completing each letter size plan sets, a meeting was held with each District to discuss countermeasures.
05/10-09/12	DOTD State Project No. H.005171.1, I-49 Study to Identify Interim Improvements for Safety & Efficiency, St. Mary Parish, LA: Aided in identifying roadway projects that would provide increased capacity or improved safety along the US 90 corridor. Some of the improvements may upgrade portions of US 90 to interstate standards.
05/10-09/12	DOTD, LA 935 Feasibility Study, Safety Retainer Contract, Ascension Parish, LA: Project Engineer performed a Stage 0 on a segment of LA 935 from LA 431 to LA 22. Developed a conceptual alternative for the realignment of LA 935, including the typical section, design criteria, plan, and cost estimate. The road paralleling Black Bayou was realigned approximately 20' off the original alignment. This realignment allowed for the road to be widening to 12' lanes and add shoulders to provide a recovery area for drivers. AECOM also performed a cost analysis to ensure the feasibility of a build/no-build condition, minimize required Right-of-Way and/or acquisition of properties.

16. Staff Experience

	Name	Mark Barry, PE		MPR 23
	Firm	Arcadis	Years of Relevant Experience with this Employer	2
	Title	Roadway Design Engineer	Years of Relevant Experience with Other Employer(s)	9
Degree(s)/Years/Specialization		BS, Civil Engineering, Mississippi State University, 2013		
Active Registration Number /State/Expiration Date		PE.33277/MS/Exp. 12/31/2026		
Year Registered	2022	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: MS Roadway Design Brief Description: Mark has 11 years of design experience working on projects with MDOT, other DOTs, and other municipalities across the Southeast. He has worked on various new construction transportation projects as well as rehabilitation projects. These involved geometric improvements, converting intersections to roundabouts, intersection improvements, traffic control, pavement marking, and permanent signing. He is well versed in MDOT's policies and procedures. Before starting his professional working career, Mark worked directly for Mississippi Department of Transportation (MDOT) as an engineering intern where he gained intimate familiarity of the operations of the agency.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/23 – 04/25	I-55 at Brookway Boulevard Interchange Improvements, MDOT, Brookhaven, MS. Roadway Design Engineer. This project located in Brookhaven, MS started design in 2023. His role in the project involved design of two roundabouts at the Interstate 55 and Brookhaven Blvd. interchange for Phase A. Design included modeling the project in 3d in OpenRoads, and production of a full plan set for Phase A including roundabout design checks, typical sections, plan sheets and traffic control. This project was designed and developed in conjunction with MDOT and designed to current Mississippi Department of Transportation design standards.			
08/23 – 10/24	SR 481 Bridge Replacement, MDOT, Burns, MS. Roadway Design Engineer. This project located in Burns, MS started design in 2021. His role in this bridge replacement project was to aid with drafting, modeling and other additions to the plan set for Phase B plans. This involved quantity calculations, traffic control plans and cross section edits. This project was designed and developed in conjunction with MDOT and designed to current Mississippi Department of Transportation design standard.			
01/23 – 06/24	US 49 from WSF Tatum Boulevard to Sims Road, MDOT, Hattiesburg, MS. Roadway Design Engineer. This project located in Hattiesburg, MS started design in 2023. His role in this project involved design and drafting of directional curb to ensure safety in median turn lanes. The design included details of slotted curb, design of its placement throughout the project at 8 intersections and traffic control to accommodate vehicles during construction. This also included confirming the location of turning movements to verify proposed curb placement. This project was designed and developed in conjunction with MDOT and designed to current Mississippi Department of Transportation design standards.			

16. Staff Experience

01/22 – 7/23	MS 301 & Starlanding Rd. Roundabout, MDOT, Desoto County, MS. Roadway Design Engineer. This project located in Hernando, MS started design in 2022. His role in the project involved design of a roundabout to replace an existing intersection. Design included modeling the project in 3d in OpenRoads, and production of a full plan set including form grades, intersection details, permanent signing, and traffic control. This project was designed and developed in conjunction with MDOT and designed to current Mississippi Department of Transportation design standards.
03/20 – 12/21	Pleasant Hill and Getwell Rd. Intersection, MDOT LPA, Desoto County, MS. Roadway Design Engineer. This project located in Hernando, MS started design in 2020. His role in the project involved roadway design and design of a signal. The roadway design included setting the roadway alignment and profile, setting superelevation, and modeling the project in 3d. A full plan set was produced including plan profile sheets, permanent signing, pavement marking, intersection details, and signal schematics. In the signal design a schematic was created of the signal layout with wiring diagrams, and signal phasing. This LPA project included working with the Mississippi Department of Transportation as well as the City of Hernando.
01/19 – 05/20	Rice Road Extension, MDOT LPA, Ridgeland, MS. Roadway Design Engineer. This project located in Ridgeland, MS started design in 2019. This project has completed construction. The goal of this project was to extend Rice Rd. to give access to the new City Hall building in Ridgeland. His role in the project involved plan QA/QC of the roadway portion, traffic control plans, and design of a traffic signal at the intersection of Rice Road and Highway 51. He produced traffic signal schematics, as well as a temporary signal plan to aid in construction. These involved working with MDOT on anything in the area of Highway 51, as well as the City of Ridgeland.
01/18-12/19	North State Street Rehabilitation, MDOT LPA, Jackson, MS. Roadway Design Engineer. Located in Jackson, MS this project started design in 2018. Extents of this project were from Fortification St. to Woodrow Wilson Dr. His role in the project was plan development, performing roadway repair design using site visits to find repair areas, performing pedestrian facility design, and incorporating requests from the client. Signal updates were performed on 4 signals to update the hardware. Select areas were repaired based on plan marked locations to the roadway, and sidewalk. Base repair areas were selected based on inspection and based on information found during construction. Sidewalks were updated to ADA standards, and several items were placed, such as pedestrian pushbuttons, to aid in pedestrian convenience. This project involved working with the City of Jackson as well as MDOT.
03/16-12/17	North and South Ward Street Rehabilitation, City of Vicksburg, Vicksburg, MS. Roadway Design Engineer. This project located in Vicksburg, MS started design in 2016. This project has completed construction. His role in the project involved assessing damage to 12 roads by using data gathered from site visits, and gathering data provided by the client. Roads were repaired based on the gathered data and categorized according to those needing mill and overlay repairs and/or base repair. A pavement design was formulated in conjunction with Geotech engineers and applied to each road accordingly. Plans were produced to clearly depict each specific repair needed for each road. This project involved working with the City of Vicksburg.

16. Staff Experience

	Name	Bradley S. Holleman, PLS, PE			MPR 24, 25
	Firm	Forte & Tablada	Years of Relevant Experience with this Employer	4	
	Title	Survey Department Manager	Years of Relevant Experience with Other Employer(s)	15	
	Degree(s)/Years/Specialization				
Active Registration Number /State/Expiration Date		BSCE/2009/Civil Engineering with Minor in Land Surveying			
PLS 5082/LA/09/30/2027		PE 47165/LA/03/31/2025			
Year Registered	2012	Discipline	Land Surveying		
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Topographic Survey/Lidar Model/Utility Coordination/SUE Brief Description: In this role, Bradley will coordinate closely with the Project Manager to ensure that the contract is properly estimated, initiated, and completed on schedule—meeting both LADOTD deliverable standards and Forte and Tablada's quality expectations. Since 2013, Bradley has developed extensive experience in processing and interpreting LiDAR data to generate accurate surface models, meeting the minimum personnel requirement for this contract. He also brings a strong background in Subsurface Utility Engineering (SUE), having performed and managed investigations across all four quality levels (A, B, C, and D). In addition, Bradley has significant hydrographic surveying experience throughout Louisiana's rivers, lakes, and coastal environments. His well-rounded skillset and leadership have contributed to the successful delivery of numerous LADOTD topographic, LiDAR, SUE and hydrographic surveying projects. Bradley fulfills the minimum personal requirement (MPR 25) of being a professional land surveyor, registered in the state of Louisiana, having a minimum of five (5) years of experience in developing surface models from LiDAR data.			
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
01/23–01/24	Contract 4400021974–Task Order 2- H.014218 US190-Livingston Parish Line, East Baton Rouge Parish, LA: Principal-in-Charge for this project providing topographic survey, Mobile LiDAR, and drainage mapping. This project is in a dense urban area and includes approximately 4 miles of a 4 lane highway. The purpose of the project is to complete a road overlay and drainage improvements. The topographic survey included collecting mobile LiDAR throughout the entire project length to generate surface models of US 190.				
02/25–ongoing	Contract 4400021974- Task Order 13- H.016278- US 167, Median Improvements, Vermilion Parish, LA: Principal-in-Charge for providing topographic and Mobile LiDAR surveying for improvements of US 167. The survey included over 2 miles along a divided 4 lane highway in a rural area. The topographic survey includes collecting and utilizing LiDAR data to generate surface models.				

16. Staff Experience

07/23–ongoing	Mid Barataria Sediment Diversion, Plaquemines Parish, LA: Principal-in-Charge of the Survey QA team for the construction of the Mid Barataria Sediment Diversion project. The QA component of this project involves conducting bi-weekly LiDAR UAV flights to generate surface models for construction pay application verification.
06/22–12/22	Crescent city Connection Bridges Hydrographic Survey, New Orleans, LA: Principal-in-Charge for the multibeam hydrographic survey on the Crescent City Connection bridges in New Orleans, LA. The focus of the project was to document 2 piers, scour/debris, and produce sounding tables at increments upstream and downstream of each pier. In order to capture the necessary vertical information on the 2 pier structures, the R2Sonic 2022 was tilted to 30 degrees, allowing data capture from the waterline down. A full multibeam survey from approximately 350' upstream and downstream was performed giving a comprehensive look at the water bottom around the bridge.
01/21–12/22	Contracts 4400010587–Task Order 18; 4400015237- Task Order 1; 4400021974–Task Orders 1, 3, and 4- H.003931– Calcasieu River Bridge (HBI) – Calcasieu Parish, LA: Principal-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase. The topographic survey included collecting and utilizing LiDAR data to generate surface and bridge models.
01/18–04/20	H.004100- I-10 LA 415 to Essen Lane, East Baton Rouge Parish, LA: Surveyor-in-Charge for the topographic survey, LiDAR scanning, existing drainage map and SUE Quality Levels B, C and D. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. This Survey was part of a larger project that extended West to LA 415 and included a team of 4 Survey firms to complete the work on schedule. The topographic survey included collecting and utilizing LiDAR data to generate surface and bridge models.
05/18–04/19	H.012591- I-10 Paris Road Lake Pontchartrain, New Orleans, LA: Surveyor-in-Charge for the topographic survey, Mobile LiDAR scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East. The 8 mile roadway was scanned using mobile LiDAR to generate surface models from the resulting dataset.
06/16–02/17	H.000263 Chef Menteur Pass Bridge, Orleans Parish: Surveyor-in-Charge for the topographic survey, LiDAR scanning, hydrographic survey, existing drainage map and SUE Quality Levels C and D. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits. The topographic survey included a hydrographic survey of Chef Menteur Pass as well as collecting and utilizing LiDAR data to generate surface and bridge models.
12/14–03/16	H.011137 & H.011152- I-12 (LA 21 to LA 59), St. Tammany Parish, LA: Surveyor-in-Charge for the topographic survey, LiDAR scanning, hydrographic survey, existing drainage map and SUE Quality Levels C and D. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish. The topographic survey included a hydrographic survey of the Tchefuncte River as well as collecting and utilizing LiDAR data to generate surface and bridge models.
06/15–12/15	H.011224 US 190 Guardrail / Rutting Repair, Pointe Coupee, LA: Surveyor-in-Charge for the topographic survey and 3D LiDAR scanning. This project was for constructing a replacement guardrail along US 190 in Pointe Coupee Parish due to damage. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits. The topographic survey was conducted utilizing mobile LiDAR to generate surface models and guardrail models.

16. Staff Experience



Name	David Cabage, CCP			MPR 26
Firm	AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	31
Title	Cost Estimator		Years of Relevant Experience with Other Employer(s)	4
Degree(s)/Years/Specialization		BS/1986/Building Construction		
Active Registration Number/State/Expiration Date		1260/AACE/9-29-19		
Year Registered	1993	Discipline	Certified Cost Professional	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Independent Cost Estimator Brief Description: Develop Independent Contractor Estimates (ICEs) for major roadway and bridge construction projects using a bottom-up approach through development of materials and crew resources and productivities, subcontracting costs and indirect costs for field overhead, home office overhead, bond and insurance costs, and operating margins.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/08 – 06/09	Pinellas Bayway Bridge Replacement, FDOT District Seven, Pinellas County, FL: Chief estimator responsible for cost estimates for a new four-lane, 2,600-foot-long high-level bridge that replaced a low-level and bascule bridge. The project also included disposal of saw-cut bridge pieces into an off-shore artificial reef, a toll plaza, a pedestrian bridge, and multiple utility relocations. Our teams estimate of \$61.8 million was 0.64% below the award amount of \$62.2M using labor, material, and equipment costs, subcontractor and indirect costs, bond rates, operating margins, and more as the basis for construction cost estimation.			
03/10–04/12	CSX Railroad Bridge, Everglades, FL. Estimator for a project to construct a new steel through girder railroad trestle in the Everglades as part of re-channelizing the St Johns River. Project included a temporary detour track, a new bridge, partial excavation of the new channel, and all related trackwork. Estimated value was \$10.1 million			
12/10–01/11	Ft. Hamer Bridge, Manatee, FL: Lead cost estimator for a project to construct a 4-lane low level bridge over the Manatee river. Work included constructing the bridge via a temporary trestle using the "Top-Down" method due to shallow waters. Estimated value was \$23.216 million and the award amount was \$23.495M.			
09/12–09/13	2nd Street Bridge, Austin, TX: Chief estimator for a project to construct a canted arch-rib suspension bridge in downtown Austin, TX. Project included difficult logistics, protection of adjacent properties, and a unique woven cable system to support the deck structure. Estimated value was \$14.7M.			
02/15-11/15	US 14 over Missouri River, MO. Cost estimator for seven cofferdams in the Missouri River in Pierre South Dakota. Work included only cofferdams and seal concrete. Estimated value was \$5.2M.			

16. Staff Experience

03/04-Ongoing	Chief Estimator, Interstate Program Manager, FDOT District Seven, Florida: Responsible for multiple five-year contracts to provide oversight of all Interstate highways in the District. Duties included providing original planning/budget estimates, updating annual 5 year work program estimates, review of other design consultants estimates, input for constructability issues, and market area studies of cost trends for market sensitive resources such as sourcing over 12 million CY of borrow material and analyzing labor and equipment availability for over \$2.6 billion of interstate reconstruction.
07/08-08/08	Chief Estimator, Kunnen Expert Witness for US 19 Access Road, FDOT District Seven, Pinellas County, FL: Responsible for several alternative detailed cost studies to modify business access to US19 to mediate business damages. Work included new retaining walls, new access roads, pedestrian bridges, and relocation of a cantilever sign structure. Used labor, material, and equipment costs, subcontractor and indirect costs, bond rates, operating margins, and more as the basis for construction cost estimation. Approximate construction value was \$10.8M.
02/08-03/08	Chief Estimator, US 281/LOOP 1604 Coordination with TxDOT District Offices & FHWA, TX: Responsible for an FHWA review of our previous cost estimate based on "Mega Project" status. Scope of services included assisting TxDOT in support of completing a risk
01/07-03/07	Chief Estimator, CAMPO, TxDOT, TX: Responsible for a planning/budgeting effort to their work plan out to the year 2050. Work included 782 projects or work segments ranging from local resurfacing to major interchange construction. Approximate construction value was \$2.6 billion.
06/06-08/06	Chief Estimator, SH 281 LOOP 1604 Procurement Review, TxDOT, TX: Responsible for a project to upgrade/convert 32 miles of 4-lane divided highway to a toll road. Work included 9 significant interchanges, frontage roads, and approximately 6 miles of reconstruction of US 281, toll plazas, and maintenance facilities. Estimates included significant constructability issues related to sequencing of traffic movements relative to construction of walls & bridges. Approximate construction value was \$1.7 billion.
10/05-06/06	Chief Scheduler, I-35/TH62 CPM Schedule, MinnDOT, MN: Responsible for project scheduling for reconstruction of the "Crosstown Commons" area in Minneapolis. Scope of services included producing a contractor style detailed CPM schedule to establish contract duration based on crew composition and productivity rates and writing a detailed CPM specification for bidding purposes. The project consisted of 6 precast segmental and 28 precast girder bridges, at grade and grade separated roads to eliminate weaving problems, large amounts of retaining walls, deep storm sewer trunk lines, and ITS infrastructure. This effort has led to repeat work with MnDOT from 2003 continuously to present ongoing work. Our specification efforts have led to establishing several standard specs and our team leading policy and procedural development of how the State specifies, manages and reviews design consultant and contractor's construction schedules. Approximate construction value was \$288.0 million.
10/03-08/06	Project Controls Manager, 78th to I-75/ Segmental Bridge/Brandon Feeder Roads/West Toll Plaza, Tampa-Hillsborough County Expressway Authority, FL (10/2003-8/2006): Managed a staff of four estimators and two schedulers who prepared budget estimates and detailed bottoms up estimates and schedules up to bidding, tracked cost and schedules through construction, and negotiated all change orders and claims to successful final settlement. Total program construction value was approximately \$235 million.
03/02-11/03	Cost Estimator, Marquette Interchange, Wisconsin Department of Transportation, Milwaukee, WI: Preparation of an independent cost estimate for FHWA to reconcile project construction costs between the design team, WisDOT, and FHWA. FHWA requires a risk analysis and cost reconciliation for "Mega-projects" over \$500 million in construction value.

16. Staff Experience

	Name	Christopher Goddin		MPR 26
	Firm	Arcadis	Years of Relevant Experience with this Employer	2
	Title	Senior Cost Estimator	Years of Relevant Experience with Other Employer(s)	30
	Degree(s)/Years/Specialization			
Active Registration Number /State/Expiration Date		BSBA, Finance, Christopher Newport University		
Year Registered		N/A	Discipline	N/A
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Independent Cost Estimator Brief Description: Chris demonstrates the ability to determine long and short-term objectives, implement activities to achieve positive results and efficiently utilize resources. Specific skill and expertise include coordination work between trades, provided bottoms up estimates, using HCSS Heavy Bid, PlanSwift, Insite and Sage for estimating, quality management and leadership.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
09/22 – ongoing	GDOT Various Projects, GA. Lead Cost Estimator who provides independent cost estimates for GDOT projects that Arcadis is the designer on. This includes bid-build and design-build projects. Manages a team of estimators to provide a true bottoms up estimate/independent cost estimate for the projects provided. These estimates are typically based on conceptual plans and are updated at specific intervals throughout the design process.			
12/23 – ongoing	Newark Airport, Newark, NJ. Cost Estimator. Lead Estimator who provides independent cost estimates for Newark projects as requested. This includes bid-build and design-build projects. Manages a team of estimators to provide a true bottoms up estimate/independent cost estimate for the projects provided. These estimates are typically based on conceptual plans and are updated at specific intervals throughout the design process.			
09/22 – ongoing	VDOT Suffolk District, Hampton Roads, VA. Lead Estimator who provides independent cost estimates for VDOT projects as requested. This includes bid-build and design-build projects. Manages a team of estimators to provide a true bottoms up estimate/independent cost estimate for the projects provided. These estimates are typically based on conceptual plans and are updated at specific intervals throughout the design process.			
08/17 – 09/22	Hudgins Contracting Corporation, Hampton, VA. Senior Estimator who provided detailed site work cost estimates for bid-build and design build work for the Contractor's competitive bid process. Project included both private and US Government work including Norfolk International Airport, Newport News/Williamsburg International Airport, US Navy, US Airforce, US Army and US Coast Guard.			

04/17 – 08/17	Tutor Perini Corporation, Civil East – New Rochelle, NY, Senior Project Engineer. Direct, coordinate and exercise functional authority for the planning of all site work operations. Manage assigned Field Engineer and EIT. Manage subcontractors involved in site work operations. Perform all take-off of materials to confirm quantities and manage productions. Coordinate all import and export of material. Prepare and negotiate with Owner all PCO's related to site work. Work with Purchasing to ensure all purchase orders/contracts are in order. Prepare RFI's and Submittals as necessary..
11/13 – 2/17	Curtis Contracting Inc. – West Point, VA. Project Manager/Lead Estimator. Manage project budget and perform PCI's as necessary to update budget. Perform weekly and monthly financial reports. Perform project projection as necessary. Work with Purchasing to ensure all purchase orders/contracts are in order. Direct, coordinate and exercise functional authority for the planning of all concrete operations. Communicate, model, and reinforce CCI culture and leadership practices with other team members. Prepare monthly invoice to owner. Prepare and negotiate change orders to owner and subcontractors as necessary. Prepare RFI's and Submittals as necessary.
8/09 – 11/13	American Infrastructure – VA. Senior Project Engineer/Cost Estimator. Manage project budget and perform PCI's as necessary to update budget. Work with PM to perform weekly and monthly financial reports. Work with PM to perform project projection as necessary. Work with PM and Purchasing to ensure all purchase orders/contracts are in order. Direct, coordinate and exercise functional authority for the planning of all concrete operations. Communicate, model, and reinforce AI culture and leadership practices with other team members. Prepare monthly invoice to owner. Prepare and negotiate change orders to owner and subcontractors as necessary. Prepare RFI's and Submittals as necessary. Assist Estimating in preparation of bids for new work.
5/00 – 8/09	Archer Western Contractors, Ltd – Richmond, VA. Project Engineer and Cost Estimator. Liaison between company and owner. Prepare all correspondence to owner and subcontractors. Prepare monthly invoice to owner. Prepare contracts/ subcontracts as necessary. Prepare and negotiate change orders to owner and subcontractors. Prepare RFI's and Submittals as necessary. Maintain all daily and monthly paperwork. Schedule Archer-Western's work as well as subcontractors' work. Manage project budgets ranging from \$1.5 to \$100 million. Perform all financial reporting to Corporate. Update and submit projections as necessary. Assist Estimating in preparation of bids for new work.
12/99 – 5/00	Virginia Department of Transportation – Williamsburg, VA. Engineering Technician/Project Estimator. Inspect all phases of highway construction. Receive and stock inventory, pull and deliver inventory per customer order.
01/90-05/99	E.V. Williams, Inc. – Virginia Beach, VA Concrete Superintendent/Project Estimator. Supervise the concrete divisions work crew mixing and pouring concrete while ensuring jobs are completed in a timely manner and according to customer, state, and local regulations. Maintain a safe workplace and monitor quality; ensure customer receives the highest quality products. Perform as corporate liaison to resolve problems. Run jobs in the field and troubleshoot problems with personnel, owner, and subcontractors. Consistently meet job deadlines. Manage daily operations and streamline procedural operations to maintain/ increase profitability.

Non - MPR

(Minimum Personnel Requirements)

Organized alphabetically by last name.

16. Staff Experience



Name	Max Aguirre, PhD, PE, PTOE, RSP2I		
Firm	Arcadis	Years of Relevant Experience with this Employer	6
Title	Transportation Engineer	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization	PhD/2018/Engineering Science, LSU; MS/2015/Construction Management, LSU; BS/2013/Civil Engineering, LSU		
Active Registration Number/State/Expiration Date	Professional Engineer – LA/PE.0047579 09/2025; PTOE #5291/USA / Exp. 7/2025; RSP2I #182/USA/Exp. 7/2027		
Year Registered	2023	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Traffic Forecasting Capacity Analysis & Simulations Brief Description: Max is a Professional Engineer specializing in traffic engineering studies and design. Dr. Aguirre has experience working on projects for Louisiana Department of Transportation and Development (LADOTD) pertaining to traffic and safety studies, Stage 0 feasibility studies, pedestrian and bicycle improvements, permanent signing design, signal design, and NEPA studies. He is also familiar with the Highway Capacity Manual, Highway Safety Manual, MUTCD, and AASHTO "Green Book". He is also knowledgeable in the application of several software programs including Interactive Highway Safety Design Model, SYNCHRO, Highway Safety Software (HSS), GuidSIGN, HCS and MicroStation software.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
02/23 – 05/24	Stage 0 Feasibility Study - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA. Traffic Engineer. Responsible for conducting all traffic and safety tasks needed for this Stage 0 Feasibility study to develop and evaluate safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish. The study methodology was similar to that of a Road Safety Assessment, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, NLCOG, Downtown Development District, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documented in a Stage 0 Feasibility Reports were completed for all 7 study corridors with Preliminary Scope and Budget Checklist and Environmental Checklist. Performed benefit-cost analysis to aid in prioritizing the implementation of countermeasures.		
02/23 - ongoing	Stage 0 Feasibility Study and Design - Cross Bayou Bridge Replacement, LADOTD, Caddo Parish, LA. Traffic Engineer. Conducted Stage 0 Feasibility study to develop and evaluate alternatives for the replacement of two existing bridges over Cross Bayou. Developed Stage 0 Documentation including Preliminary Scope and Budget and Environmental Checklists. The next phase of the project will be conducted under the same contract and will include the development of construction plans.		
10/18 – 03/21	LA 3040 Corridor Improvements, LADOTD, Houma, LA. Traffic Engineer. Study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address safety and operational needs. Responsible for performing traffic analysis using Highway Capacity Software in accordance with LADOTD TEPR Requirement.		

16. Staff Experience

09/19 – 06/21	Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Assisted with the assessment of existing and future safety deficiencies related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes. Assisted in the development of Road Safety Assessments (RSAs) at 10 priority locations to identify and evaluate safety deficiencies and develop safety countermeasures to improve safety for pedestrians and bicyclists. Evaluated alternatives to determine and document the feasibility of proposed countermeasures. Developed benefit-cost analysis to prioritize implementation of proposed improvements.
10/19 – 07/21	I-10 New Orleans to Slidell Hard Shoulder Running Feasibility Study, LADOTD, Orleans Parish, LA. Traffic Engineer. Purpose of the project was to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor. Developed conceptual drawings and typical sections, crash analysis, and predictive safety analysis for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Developed benefit-cost analysis for Preliminary Scope and Budget and Environmental Checklists.
08/19 – 02/20	US 61 Access Management and Corridor Improvements (Airline Hwy), LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Evaluated the need for pedestrian and bicycle accommodations based on historical crash data and adjacent land use. Assisted in conducting traffic analysis and the development of benefit-cost analysis to compare the effectiveness of the proposed alternatives.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Assisting in traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Assisted in the development of existing condition safety analysis including tasks such as crash data analysis, collision diagrams, and crash report documentation.
09/19 – Ongoing	I-49 (Ricohoc to Berwick) Supplemental Environmental Impact Assessment, LADOTD, St. Mary Parish, LA. Traffic Engineer. Assist in project tasks involving planning and evaluation of different interchange alternatives and their geometric design, socio-economic impacts, mobility impacts, and environmental impacts.

16. Staff Experience



Name	Meredith Allen		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	6
Title	Environmental Plannerw	Years of Relevant Experience with Other Employer(s)	10
Degree(s)/Years/Specialization		Juris Doctor (JD)/Law/2008; BSc/1999/Environmental Studies; MA/2008/Marine Policy	
Active Registration Number/State/Expiration Date		N/A	
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Regulatory Brief Description: Meredith is a Subject Matter Expert (SME) in the federal regulatory field, including § 9/10/14 (§408) of the Rivers and Harbors Act, §404 of the Clean Water Act, and §103 of the Marine Protection Research and Sanctuaries Act of 1972. Her experience includes NEPA, 404(b)(1) Guidelines, Cumulative Impact Analysis, Alternative Analysis, Endangered Species Act/Marine Mammal Protection Act Assessment/Consultations, Essential Fish Habitat Coordination, and the various requirements for work in or with potential to effect Congressionally Authorized Navigation Projects.	
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
02/20-09/20	Port of Corpus Christi, Corpus Christi Ship Channel Deepening, Corpus Christi, TX. Regulatory subject matter expert provided guidance and direction on a complex regulatory review of a high-profile port project. Clarified permit application requirements, identified potential information gaps in existing submittals, and generated supplemental content to drive the regulatory review forward.		
08/2019-ongoing	Georgia Ports Authority, On-call Engineering Services 2018-2023, Various Locations, GA. As Environmental Permitting and Regulatory Subject Matter Expert, led a team of subject matter experts in development of a regulatory strategy for GPA's 2040 Master Plan for Savannah Harbor. The objective of strategy was to develop a guide for GPA to navigate through the environmental permitting process, while minimizing and mitigating any foreseeable risks that could impact their master plan schedule. Also providing ongoing environmental permitting support associated with on-call contract.		
12/20-04/21	Port of Houston Authority, Houston Ship Channel ECIP Project 11 Design Elements, Houston, TX. Environmental Subject Matter Expert working with an interdisciplinary team to update the Houston Ship Channel (HSC) Expansion Channel Improvement Project (ECIP)'s Final Integrated Feasibility Report and Environmental Impact Statement (FIFR-EIS) to reflect final project design changes to the recommended plan with particular focus on endangered species, marine mammals, and environmental law and regulation compliance.		
12/20-08/22	Georgia Department of Transportation, Bridge Program Management, Atlanta, GA. Environmental Subject Matter Expert conducted final QA/QC on Environmental Risk Register, provided support services for environmental project procurement planning and technical lead on program database update/evolution.		

16. Staff Experience

	Name	Bob Anderson, PE, SE		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	36
	Title	Vice President, Structural	Years of Relevant Experience with Other Employer(s)	5
Degree(s)/Years/Specialization		MS/1988/Civil Engineering, BS/1983/Civil Engineer		
Active Registration Number/State/Expiration Date		PE: CT, 01/31/2026; MD 06/23/2026; FL 02/28/2027; MN, 06/30/2026; MO,12/31/2026; TN, 08/31/2026; TX, 03/31/2026; SC 06/30/2026; SD, 12/31/2026; WV, 12/31/2026 SE: UT, 03/31/2027		
Year Registered	1991	Discipline	Professional Engineer/Structural Engineer	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Deputy Project Manager/Bridge Design Brief Description: Bob is an award-winning engineer and design manager with four decades of global experience in designing and managing complex bridge structural projects. His expertise includes applying highly technical design principles and effective project management techniques, including the planning, design, inspection, evaluation, rehabilitation, and construction.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/01-12/04, 06/07-06/17, 01/21-Ongoing	Connecticut DOT, Pearl Harbor Memorial Bridge, I-95 over the Quinnipiac River (Design-Build), New Haven, CT: Design Lead and Project Manager. Bob served first as design lead and then as project manager for the design and construction for the replacement of the I-95 bridge over the Quinnipiac River in New Haven. Walsh/Archer Western was responsible for the bridge construction. The design included marine construction techniques to limit environmental impacts for deep drilled shaft foundations subjected to scour and vessel collision and accounting for soil structure interaction. As the first extradosed cable-stayed bridge built in the United States, with a main span of 515 ft., it uses a hybrid design that combines features of both girder and stayed cable types. Leading a design team of 30, Bob was involved in all aspects of preliminary and final design, including client (CTDOT) and agency coordination (FHWA) of alternate steel and concrete bridges and construction of the winning concrete bridge alternative. He led the load rating of the as-built structure, authored the maintenance manual, and helped develop and interpret results obtained from the structural monitoring system. This project was completed on time and within 1% of the engineer's estimate of probable cost. Cost: \$656M			
08/17-04/21	Tampa-Hillsborough Expressway Authority, Selmon Expressway West Extension (Design-Build), Tampa, FL: Engineer of Record/Structures Lead. This project primarily involved viaduct structures that included: 1) 7,200 ft. of precast segmental bridge constructed with hybrid span-by-span method with above deck finback supports with cables encased in concrete and 2) 1,600 ft. of curved steel tub girders that are used to frame bifurcated alignments. The latter included a single-cell steel box that employed abolted bottom wide flange stiffeners to protect against collapse by providing load path redundancy. Average spans are 230 ft. and 200 ft. for the concrete and steel bridges. Design tasks included pre and post-construction Load and Resistance Factor Ratings (LRFR) load ratings. Cost: \$230M			

16. Staff Experience

03/15-09/16	Puerto Rico Highway and Transportation Authority, La Plata River Bridge (Design-Build), Puerto Rico: Lead Engineer. The Naranjito Bridge, a structure of intricate architecture, connects the cities of Naranjito with Toa Alta and Bayamón via the PR-5 highway. As the lead engineer for the rehabilitation of Puerto Rico's only longspan cable-stayed bridge, Bob assisted in developing the technical approach and performed LRFR. The bridge is a concrete cast-in-place, post-tensioned structure with edge girders. Non-destructive and invasive testing were performed on stay cables and post-tensioning tendons. Live load testing was performed at various speeds to determine an appropriate dynamic load allowance. Bob developed criteria and produced load rating report, which summarized longitudinal and transverse structural modeling and analysis, as well as capacity and load rating evaluations. Load ratings were performed both before and after the bridge was rehabilitated to correct deficiencies with an uneven deck surface. Limiting loading demands and dynamic load effects will extend the lifespan and improve the performance of the structure. Cost: \$27M
01/91-09/95	Kap Shui Mun Bridge and Ma Wan Viaduct Structures (Design-Build), Hong Kong: Lead Engineer. The Kap Shui Mun Bridge is part of the 2.18 mile Lantau Link. As part of the Lantau Link, this bridge connects the new Hong International Airport at Chek Lap Kok Island with Hong Kong Island and is the longest cablestayed bridge in the world carrying both rail and automobile traffic. The total length of the bridge is 4,040 feet, with a cable-stayed main span of 1,440 feet. It includes a hybrid concrete/steel cable-stayed bridge and concrete box girder approach spans and was designed as a double check system. Concrete spans were incrementally launched, segmentally constructed structures. Bob was responsible for the Design-Build team's development of design and production of construction plans for the joint venture. AECOM's role in the project began with the evaluation of a variety of steel and concrete alternatives for the cable-stayed bridge superstructure and substructure. Working closely with the contractor members of the Design-Build team, AECOM developed an extremely efficient design, optimizing the values inherent in both materials. Cost: \$1.6B. AECOM was selected to design the next phase of the Lantau Link sea crossing, the Tsing Ma suspension bridge. Bob was the Bridge Lead for this project, however Bob has been redirected to the FSK Replacement project
01/00-12/01	Florida DOT, I-4 Six-Laning - St. Johns River Bridge Replacement (Design-Build), Sanford, FL: The bridge was part of the First Coast Expressway project. The 46-mile roadway is designed to reduce congestion for commuters, and for those headed away from the coast during storm-related evacuations. The 9,300-ft. bridge included dual 12-ft.-wide travel lanes in each direction with 12-ft. wide outside shoulders and a shared-use path on the northbound side for pedestrians and bicyclists. The bridge has a 65-ft. vertical clearance to help marine commerce. Bob was responsible for preliminary and final designs and construction support for the major river crossings. The bridges were founded on prestressed precast pile foundations subjected to severe vessel collision loads. Bridges were designed to accommodate future widening. The grade separation bridges were the first in Florida to use high-performance Grade 70 steel and featured integral abutments and jointless deck designs to improve service life. Bob developed design fees and was responsible for budget, schedule, production, quality of structures design submittals, and collaboration with subconsultants. Cost: \$100M
06/06-12/06	Transit New Zealand, SH20 Manukau Harbor Crossing, Auckland, New Zealand. Bob served as the design project manager for a crucial transportation project in Western Auckland. The \$200 M, three-mile, SH20 serves as a key transit route that plays a vital role in Auckland's new Western Ring Route contracted with an alternate delivery alliancing process. The project involved the design and construction of a duplicate 2,130 ft., 13 span, major harbor crossing bridge with stringent environmental commitments imposed by local and national agencies. Bob oversaw a multi-disciplinary team of thirty professionals during the project's preliminary design and public involvement, as well as the production of tender documents.

16. Staff Experience

	Name	Collins Anderson, MHP		
	Firm	Arcadis	Years of Relevant Experience with this Employer	2
	Title	Architectural Historian	Years of Relevant Experience with Other Employer(s)	20
Degree(s)/Years/Specialization		MHP/2015/Historic Preservation		
Active Registration Number/State/Expiration Date		All states/NA		
Year Registered	N/A	Discipline	Architectural History	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Cultural Resources Brief Description: Secretary of the Interior-qualified Architectural Historian. Specialized experience in the southeastern United States and has worked with State Historic Preservation Offices (SHPO) in 40 states. Collins has Section 106 experience conducting historical research, performing field surveys, resource evaluation, assessment of effects determinations, and creating National Register of Historic Places (NRHP) eligibility evaluations.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/25-Ongoing	I-75 from I-675 to South of SR 155-Express Lanes, Georgia Department of Transportation (GDOT), Henry/Clayton Counties, GA: SOI-Qualified Architectural Historian and SME for a Design Build express lane widening along 12 miles of the I-75 corridor. Duties include Section 106 notification, screening the Area of Potential Effect (APE) for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with the GDOT team, and providing status updates (all on a compressed schedule).			
05/25-Ongoing	Louisiana Department of Transportation and Development (LADOTD) Dist 02-IIJA Off-Sys Bridge Replacement, Terrebonne/Jefferson/Plaquemines Parishes, LA: SOI-Qualified Architectural Historian and SME for multiple bridge replacement projects. Duties include tribal packet and Section 106 packet creation, map making, screening the APE for historic above-ground resources, evaluation of historic resources, feedback to the Louisiana team on history topics as well as status updates.			
06/24-Ongoing	State Road 135 at Keith Evans Road, Roundabout Construction at SR 135 at Keith Evans Road, Georgia Department of Transportation (GDOT), Dawson County, GA: SOI-Qualified Architectural Historian and SME for roundabout construction at SR 135 at Keith Evans Road. Duties include project description creation, Section 106 notification, screening the APE for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with the PMC and GDOT team, and providing status updates.			

16. Staff Experience

12/23-Ongoing	State Road 140 at I-85, Road Widening and Sidewalk Reconstruction of SR 140 at I-85, Georgia Department of Transportation (GDOT), Gwinnett County, GA: SOI-Qualified Architectural Historian and SME for road widening and sidewalk reconstruction on SR 140 at I-85. Duties include Section 106 notification, screening the APE for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with GDOT team, and providing status updates.
12/15-03/22	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Simpson County, MI: Senior Architectural Historian for an MOA consisting of a Historic Resource Survey (HRS) Report and 43 individual HRS forms for historic resources located within the project Area of Potential Effect (APE). Field survey was conducted for each resource, digital photographs were taken to accompany HRS forms and maps were included for all resources. Digital and hard copies were accepted by the Mississippi Department of Archives and History (MDAH) as mitigation for the telecommunications tower project.
11/20-03/21	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Carroll County, GA: Senior Architectural Historian for an MOA consisting of PARs of residential historic buildings and a CAR for the historic Veal School. Digital single-lens reflex camera (DSLR) photographs were taken to accompany maps and documentation on archival paper for the PAR. Additionally, a CAR was conducted for the Veal School with digital photographs taken to accompany the report and maps included. The SOI Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic Buildings were consulted, and a preservation plan was advised. Digital and hard copies were accepted by the Georgia SHPO, Carroll County Historical Society, and current Veal School representative of the CAR and PAR as mitigation for adverse effect to historic resources for the telecommunications tower project.
02/20-06/20	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Madison County, GA: Senior Architectural Historian for an MOA consisting of creation of an informational brochure. The brochure compares the Craftsman style of architecture to the bungalow house type in Georgia. Craftsman style and bungalow type homes in the city limits of Athens, Georgia were photographed and information on the history and features of both were compiled into a physical and digital brochure. Preservation entities such as the University of Georgia, College of Environment+Design, the Georgia Historical Society, and the Atlanta Historic Preservation Center were contacted as recipients of the brochure. A digital copy was accepted by the Georgia SHPO of the informational brochure as a preliminary telecommunication project mitigation for an adverse effect to historic resources.

16. Staff Experience

	Name	Kim Arcement		
	Firm	Arcadis	Years of Relevant Experience with this Employer	1
	Title	Senior Ecologist/Environmental Planner	Years of Relevant Experience with Other Employer(s)	24
Degree(s)/Years/Specialization		MS/2001/Ecosystem Science; BS/1998/Environmental and Sustainable Resources		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: ESA / Regulatory Brief Description: Kim is a Senior Ecologist and Environmental Planner with 25 years of experience in achieving compliance with environmental laws such as the Clean Water Act, NEPA, and NHPA. She has processed various permits for coastal use, obtained permits from USACE and LDEQ, and conducted Phase I Environmental Site Assessments (ESAs) per ASTM E1527. He has experience with environmental tasks required for feasibility studies including desktop and field reviews to document environmentally sensitive areas, and conducting public meetings. She was also the environmental advisor for the MOVEBR program while employed at CSRS (10/2018 to 09/2023. Additionally, she obtained the USACE Individual Permit and LDEQ Water Quality Certification for McHugh Road on behalf of the City of Baton Rouge-East Baton Rouge Parish.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/24-ongoing	I-20 Widening Monroe, LADOTD, Ouachita Parish, LA. Environmental Planner and Public Meeting Coordinator. Assisted with required wetland studies and the development of a Wetlands Finding Report using the latest FHWA criteria. Assisted with the coordination and execution of a public meeting to obtain public and stakeholder input. Prepared public meeting report.			
10/18-09/23	MOVEBR Transportation Program, City of Baton Rouge, East Baton Rouge Parish, LA. Environmental Program Advisor for the City-Parish's \$1.8 billion investment in transportation improvements; specifically, 39 roadway capacity projects. Worked with the New Orleans District Corps of Engineers to remove roadside ditches from jurisdiction under the 2020 Navigable Waters Protection Rule. Advisory services ensured FHWA and DOTD compliance (e.g., Section 404, Section 401 Water Quality Certification, LDWF Scenic Rivers Permit, Significant Trees, etc.)			
10/18-09/23	Heritage Crossings Mixed-Use Development, Ascension Parish, LA. Environmental Practice Lead. Obtained the Section 404 permit and Water Quality Certification for a new mixed-use development anchored by the new Gonzales PACE Center. The project included internal infrastructure to improve traffic flow and connectivity to medical facilities. The project required compensatory wetland mitigation for 9 acres of bottomland hardwoods.			

16. Staff Experience

05/21-09/23	Port of Greater Baton Rouge, West Baton Rouge Parish, LA. Environmental Practice Lead. Provided environmental services to owner's/investment reps for Grön Fuels, a \$9.2 billion renewable diesel refinery (biofuels) project that included: Phase I ESA, wetland delineation, Section 10/404, Section 7 of Endangered Species Act, Cultural Resources Survey, LDNR water well and LPDES wastewater discharge permits. Project included Capio carbon capture and sequestration injection wells.
05/11-10/16	Port of New Orleans, Orleans Parish, LA. Environmental Specialist/Project Lead. Responsible for preparing EA/Categorical Exclusion documents per Federal Railroad Administration (FRA) for funding through the U.S. DOT Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program; \$62 million in TIGER III funding was awarded for the 9-acres yard improvements and creation of a new 12-acre rail intermodal terminal at the Napoleon/Louisiana Avenue Wharves; Updated the EA documents in 2015 for \$16.7 million TIGER award for additional intermodal improvements.
11/12-07/15	Port of New Orleans, Orleans Parish, LA. Environmental Specialist. Responsible for preparing NEPA compliance documents (EA and Supplemental EA) according to HUD 24 CFR Part 58 to secure federal funding for Henry Clay Wharf and Riverfront Cold Storage Project; Prepared supportive documentation: Purpose & Need, Alternatives & Justification, Historic Preservation, 8-Step Floodplain & Wetlands Analysis, Traffic & Transportation, Environmental Justice, and Noise Assessment with pile-driving and construction noise impacts; Required formal consultation with SHPO identifying the Area of Potential Effect (APE); Subsequently, prepared compliance documentation for Julia Street Cruise Terminal & Erato Street Terminal Improvements, Poland Avenue Bank Stabilization and Wharf Repairs, & Almonaster Bridge Replacement.
04/20-09/23	University Lakes Flood Risk Reduction/Aquatic Restoration, East Baton Rouge Parish, LA. Natural Resource Manager. Created a permitting matrix for nature-based solution project that beneficially used dredge material to create ecosystem habitat including riparian areas along 6-lake system (400+ acres). Permits included a Section 10/404 permit from the USACE, Water Quality Certification from the LDEQ, a Section 106 Concurrence from SHPO, and a Letter of No Objection from the USFWS and the LDWF. Obtained a Nationwide Permit 27 for the Aquatic Enhancement Pilot Study and prepared NEPA compliance documentation for release of CDBG-MIT funds from La. Office of Community Development.
10/20-09/22	University Club – 11th Filing Phase 2 & 3, East Baton Rouge Parish, LA. Environmental Practice Lead. Tasked with obtaining a Scenic Rivers Permit from LDWF for a residential subdivision located within a 100-feet of historic Bayou Manchac. Prepared permit application with an EA along with interagency coordination. The development was controversial given the 2016 Great Flood and site location along historic Bayou Manchac. Kim worked hand-in-hand with LDWF and our engineering team to reconfigure the stormwater retention pond and remove the hydrologic connection to the bayou.
10/08-06/18	The Domain Companies, South Market District, Orleans Parish, LA. Environmental Specialist. Responsible for performing multiple Phase I ESA and preparing NEPA compliance documents for a 5-city block redevelopment project in downtown New Orleans; specifically, to secure funding through the Louisiana Office of Community Development Disaster Recovery Unit (OCD-DRU) for Project-based Recovery Opportunity Program (PROP) through the Community Development Block Grant (CDBG) Disaster Recovery Fund for parishes impacted by Hurricanes Katrina and Rita; Also, prepared Phase I ESAs and various NEPA compliance documents to secure HUD funding for the Gold Seal Creamery in New Orleans and new construction of the High Grove Development in Baton Rouge.
02/16 – 08/16	St. Thomas Community Health Center, Orleans Parish, LA. Environmental Specialist. Prepared NEPA compliance documents for HUD funding per 24 CFR Part 58 for OCD Gustav/Ike Economic Revitalization Business Recovery Grant; EA documentation also satisfied the U.S. Department of Health & Human Services, Health Infrastructure Investment Program; Also, prepared compliance documents for the adjacent KIPP Believe School in the Bayou District.

16. Staff Experience



Name	Paul Axtell, PE, BC.GE		
Firm	Dan Brown and Associates	Years of Relevant Experience with this Employer	17
Title	COO/Senior Principal Engineer	Years of Relevant Experience with Other Employer(s)	7

Degree(s)/Years/Specialization	MS/2001/Engineering BS/1999/Civil Engineering		
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Active Registration Number/State/ Expiration Date	PE26360/IA/Exp. 12/31/2028; 18118/KS/4-30-2026 Additional active licenses; IL, KY, MN, MT, MO, NJ, WI Board Certified Geotechnical Engineer (BC.GE)		
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Year Registered	2004	Discipline	Civil Engineer
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Geotechnical Foundation Design Brief Description: With over twenty years experience in deep foundation design and construction, including the last 17 years dedicated to major bridge projects spanning navigable waterways, Paul brings a wealth of experience and expertise. He will apply his technical acumen and experience to address all potential foundation demands, including typical load cases, extreme event vessel collision, extreme event scour, and potential kinematic forces applied by moving soil.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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01/23–Present	Brent Spence Companion Ohio River Bridge, Cincinnati, OH: Lead Geotechnical Designer for the new double-decker companion structure crossing the Ohio River.		
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05/21–Present	Iowa 9 Black Hawk Mississippi River Bridge, Lansing, IA: Lead Geotechnical Designer for the replacement structure crossing the Mississippi River.		
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09/22–Present	I-80 Mississippi River Bridge, Rapids City, IL: Geotechnical Designer for the replacement structure crossing the Mississippi River.		
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05/20–Present	I-90 Clark Fork and Cyr Bridge Structures, Alberton, MT: Lead Geotechnical Designer for the two westbound replacement structures crossing the Clark Fork River.		
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11/20–Present	I-535 Blatnik Bridge, Duluth, MN: Lead Geotechnical Designer for Phase I design of the replacement structure crossing the St. Louis Bay of Lake Superior.		
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16. Staff Experience

08/19–Present	IL100/106 Illinois River Bridge, Florence, IL: Lead Geotechnical Designer for the replacement structure crossing the Illinois River.
10/18–Present	Gordie Howe International Bridge, Detroit, MI: Subject Matter Expert for foundation design and construction representing the Owner.
03/21–12/24	I-70 Missouri River Bridge, Rocheport, MO: Lead Geotechnical Designer for the replacement structures crossing the Missouri River.
02/17–12/24	I-30 Crossing Project, Little Rock, AR: Geotechnical Designer for the replacement structures crossing the Arkansas River.
10/17–05/20	Rainey River Bridge, Baudette, MN: Lead Geotechnical Designer for the international border crossing bridge across the Rainey River.
02/17–10/19	I-90 Bridges over the Blackfoot River, Bonner, MT: Lead Geotechnical Engineer for the slope stabilization project beneath the replacement bridge structures crossing the Blackfoot River.
05/12–05/17	US 52 – Illinois 64 Mississippi River Bridge, Savanna, IL: Expert Foundation Consultant to structural engineer for the replacement structure crossing the Mississippi River.
05/15–04/18	TH63 Mississippi River Bridge, Red Wing, MN: Lead Geotechnical Designer for the replacement structure crossing the Mississippi River.
03/14–12/17	TH53 Thomas Rukavina Memorial Bridge, Virginia, MN: Lead Geotechnical Designer for bridge across the currently inactive and flooded Rouchleau iron ore mine pit.
03/13–05/16	Sellwood Bridge over Willamette River, Portland, OR: Lead Geotechnical Designer for the drilled replacement structure crossing the Willamette River.
02/2012–08/2017	TH36 St. Croix River Bridge, Stillwater, MN: Lead Geotechnical Designer for the pre-bid load test program and the structure crossing the St. Croix River.
05/11–11/13	Hurricane Deck Bridge, Lake of the Ozarks, MO: Lead Geotechnical Designer for the replacement structure crossing the Lake of the Ozarks.
01/10–12/13	US61 Mississippi River Bridge, Hastings, MN: Lead Geotechnical Designer for the replacement structure crossing the Mississippi River.

16. Staff Experience



Name	Mike Baker		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	27
Title	Environmental Manager	Years of Relevant Experience with Other Employer(s)	3

Degree(s)/Years/Specialization	BS/1994/Biology; BS/1994/Environmental Science
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Active Registration Number/State/Expiration Date	N/A
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Year Registered	N/A	Discipline	N/A
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Coast Guard Brief Description: Mike has been the main point of contact with the US Coast Guard (USCG) for several major bridge projects spanning the last 25 years, continuously, for both the owner's side and design-build teams. This extensive experience includes comprehensive USCG Bridge Permit expertise from start (NEPA phase) to permit acquisition following the USCG Bridge Permit Application Guide, working with design teams to generate the plan package and extensive permit application, as well as submitting the required post-issuance packages including lighting and pier protection, and coordinating directly with USCG during construction and demolition to main safe navigation for all river users.
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
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01/25-present	Maryland Transportation Authority, Francis Scott Key Bridge Rebuild, Baltimore, MD. Environmental Construction Manager (key staff), supported permitting team in obtaining the USCG Bridge Permit for the new 4-lane, cable-stayed Key Bridge with 230' vertical clearance over the 1800'-wide Federal Navigation Channel, including pier protection, lighting, and gauges as well as demolition of the remaining collapsed bridge structure. Designated as main point of contact with USCG and Pilots Association for all coordination during construction for the project.
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03/24-07/24	Skanska/Maryland Transportation Authority, Francis Scott Key Bridge Collapse Response/Recovery, Baltimore, MD. Environmental Construction Manager responsible for emergency permitting including daily USCG coordination and site inspections; multiple daily briefings with USCG and other agencies including morning and evening Unified Command meetings and Noon operations meetings; coordination with USCG on moorings, tug/barge movements, and clearing, marking and opening multiple auxiliary channels en route to opening the Federal Channel; environmental compliance for all work including: daily inspections of salvage yard, weekly and post-storm NPDES inspection reports, inspections of the salvage work in the river, and testing/disposal coordination of all materials including contaminated water and sediment.
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16. Staff Experience

11/19-01/25	Skanska/Corman-Kokosing/McLean for Maryland Transportation Authority, \$465M Nice Middleton Bridge Replacement Design-Build Project, Baltimore, MD. Environmental Compliance Manager (key staff) for design-build team from start to finish for the 4-land 2-mile bridge over the Potomac River between Maryland and Virginia. Responsible for acquisition or modification of all State/Federal/local permits to start and finish construction and demolition ahead of schedule. This included a major modification of the USCG Bridge Permit to gain conformance with the final design, coordination of all required USCG submittals including the fender rings, lighting plan, fog signal, and as-built package. Completed constructability reviews and compliance reviews of design submissions. Responsible for environmental compliance during construction including permit compliance, erosion and sediment control inspections, NPDES/SWPPP corrective items, Underwater Noise Monitoring Plan, navigational channel management, and contaminated materials management. Main point of contact for all USCG coordination during the 4 years of construction and demolition including continuous L-NTM's as well as USCG Temporary Safety Zones to close the shipping channel during setting of steel girder for the new bridge and several blasting events to demolish the old bridge.
7/17-8/23	Walsh/Archer Western/Granite for DDOT, \$445M South Capitol Street Frederick Douglass Memorial Bridge Design-Build Project, Washington DC. Environmental Manager (key staff) for Design-Build team responsible for acquisition/modification of all permits (USCG Bridge Permit, USACE Section 10/404 Individual Permit, DOEE Section 401 WQC, NPS SUP's including Bed of River permit, DC SHPO Section 106, Section 7 ESA compliance, FAA permits, DCRA/DOB permits, DOEE well/boring permits, DOEE ESC/SWM approval, DOEE and DC Water Discharge Permits), agency coordination with USCG and others in concert with DDOT, environmental review of all design packages including the plan set for the USCG Bridge Permit, successful negotiations with USCG to remove the requirement for fenders and gauges and reduce required demolition depths, NEPA/permit commitment tracking, hazardous materials management, implementation of Environmental Management Plan, and environmental compliance during construction (include fish protection during pile driving) of this arch suspension bridge over the Anacostia River in Washington DC and demolition of the old bridge.
1/18-1/21	Kiewit Construction for National Park Service, Arlington Memorial Bridge Rehabilitation Design-Build Project, Washington DC. Environmental Manager (key staff) for Design-Build team responsible for acquisition of all permits/authorizations (including USCG Bridge Permit, NWP's from USACE, Section 401 WQC from DOEE, USACE Section 408), hazardous materials management, implementation of Environmental Management Plan, main point of contract for the project for navigation channel management with USCG, coordination with river users, and environmental compliance during construction of this \$200M iconic bridge rehabilitation over the Potomac River in Washington DC.
4/23-present	Walsh/Granite, Brent Spence Bridge Project, Cincinnati OH. Permitting Specialist supporting Design-Build Environmental Team with the comprehensive USCG Bridge Permit process including the Bridge Project Initiation Request, the Vessel Impact Report, the USCGBP plan set and checklist, and the application package for the USCGBP.
12/21-10/22	VDOT, I-64 Hampton River Bridges Project, Hampon Roads, VA. Permit Specialist responsible for expedited initiation and advancement of USCG Bridge Permit including the Bridge Project Initiation Request, the Vessel Impact Report including marina and river-user interviews, the USCGBP plan set and checklist, and the application package for the USCGBP in preparation for the design-builder selection by VDOT for this critical project.

16. Staff Experience



Name	Peter Bakhit, PhD, PE, PTOE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	3
Title	Traffic Analysis Task Leader/Intersection/Signal Design	Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization	PhD/2018/Civil Engineering; MS/2015/Civil Engineering; BS/2012/Civil Engineering		
Active Registration Number /State/Expiration Date	PE.0049303/LA/Exp. 03/31/26; PTOE #5713/Exp. 7/9/2027; Additional active license in TX		
Year Registered	2021	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Contract Role: Traffic Modeling Brief Description: Peter is a professional engineer with more than six years of experience focusing on the transportation industry. He has experience working on projects for DOTD pertaining to traffic and safety studies, feasibility studies, permanent signing design, signal design, and NEPA studies. His software skills include: Synchro, Vissim, VISTRO, ArcGIS, Freeval, MATLAB, R Studio, SPSS, MicroStation and HCS. Peter is also a member of ASCE and ITE organizations.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
04/19-01/22	DOTD, Pete's Highway Interchange Alternatives & Environmental Assessment, Denham Springs, LA: Traffic Engineer. Responsible for traffic analysis of proposed build alternatives using Vissim software.		
04/18-05/19	DOTD, Freeval Lane Closure Analysis - Major Metropolitan Areas, Baton Rouge, LA: Freeval Modeling. Responsible for developing and calibrating the Freeval models for multiple freeway corridors in New Orleans, and Baton Rouge. This project aimed to provide a tool to analyze different lane closure scenarios for the interstate freeways in major metropolitan areas of Louisiana.		
06/19-12/19	DOTD, US 61 Corridor Study (Airline Hwy), Baton Rouge, LA: Traffic Analyst. Responsible for the corridor safety analysis. The purpose of the study is to assess traffic operations and potential safety improvements for this urban, four-lane divided highway. Scope of services include existing traffic data collection and analyses, safety data analyses, future traffic projections considering corridor growth rates, assessment of access management improvements (implementing "Superstreet" concept), and evaluation of concept using HCM methodologies.		
07/13-12/15	DOTD, Development of an Optimal Ramp Metering Control Strategy For I-12, Baton Rouge, LA: Traffic Vissim Modeling. Responsible for developing different traffic Vissim models with various ramp metering plans. The purpose of the study is to evaluate different ramp metering strategies to identify the optimal algorithm that can improve traffic operations on I-12.		
04/18-02/20	DOTD, I-10 (LA 73 to LA 429) Ascension Parish IMR & IJR Study, DOTD, Ascension Parish, Louisiana, Ascension Parish, LA: Transportation Engineer. Providing technical support for various tasks including data collection, development of build alternatives through a tiered analysis, and conceptual drawings of critical roadway geometry. The purpose of the project is to evaluate improvements to an existing interchange and configuration of two new interchanges along I-10 in Ascension Parish.		
11/20-Ongoing	DOTD, I-10 CMAR, East Baton Rouge Parish, LA. Traffic Engineer: Responsible for wide range of traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. The improvements also include the intersections nearby study area.		

16. Staff Experience



Name	Sridhar Basetty, PE, PTOE		
Firm	Arcadis	Years of Relevant Experience with this Employer	15
Title	Principal Transportation Engineer	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization	MS/2004/Civil Engineering, University of Dayton BS/2002/Civil Engineering, Osmania University		
Active Registration Number/State/Expiration Date	PE. 38950/LA/09/30/2026 PTOE #3682 Exp. 8/1/2026		
Year Registered	2010	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Traffic Modeling Brief Description: Sridhar is a Senior Traffic / Intelligent Transportation System (ITS) Engineer Lead with diverse experience in transportation engineering. His expertise includes traffic control plans, freeway and arterial corridor studies, Interchange Modification Report and Interchange Justification Report studies, microscopic and macroscopic simulations, transportation concept development, safety analysis, signal warrant analysis, ITS/ advanced transportation management system projects, transportation management plan (TMP) development, signal design, and signing and marking design. He is highly proficient with the transportation modeling and analysis tools that includes HCS, Synchro / SimTraffic, TRANSYT 7F, CORSIM, VISSIM, SIDRA, VISUM, CUBE, and TransCAD.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
08/16 – Ongoing	ITS Maintenance Retainer Contract– Program Management (PM) and Maintenance Management System (MMS), Louisiana Department of Transportation and Development (LADOTD), Statewide, LA. Senior Traffic Engineer. Responsible for developing traffic control plans and developing, implementing, and managing ITS maintenance plans, policies, standards, procedures, and guidelines. Systematically provide routine and responsive maintenance for the LADOTD's statewide ITS infrastructure. Such infrastructure includes CCTV cameras, dynamic message signs (DMS), radar vehicle detectors, and ramp meters, totaling more than 500 sites statewide.		
08/13 – 08/16	ITS Maintenance Retainer Contract– PM and MMS, LADOTD, Statewide, LA. Senior Traffic Engineer. Responsible for developing traffic control plans and developing, implementing, and managing ITS maintenance plans, policies, standards, procedures, and guidelines. Arcadis was awarded the first-ever ITS maintenance contract to establish a program to systematically provide routine and responsive maintenance for the LADOTD's statewide ITS infrastructure. Such infrastructure includes CCTV cameras, dynamic message signs (DMS), radar vehicle detectors, and ramp meters, totaling more than 500 sites statewide.		
08/13 – 08/16	ITS Maintenance Retainer Routine Maintenance Task Orders – CCTV Camera, DMS, VD, and Ramp Meter, LADOTD, Statewide, LA. Senior Traffic Engineer. Responsible for developing traffic control plans, providing routine maintenance of statewide ITS sites including, CCTV cameras, DMS, vehicle detectors (VD), and ramp meters. Responsibilities include development of detailed checklist by device type; integration of checklist with MMS software; standardized reporting; development of routine maintenance scheduler; and coordination with statewide traffic management center (TMC), regional TMCs, and DOTD districts before, during, and after all routine maintenance activities.		

16. Staff Experience

08/09 – 03/11	Baton Rouge to Lafayette ITS - Traffic Incident Management (TIM) Phase 2, LADOTD, Baton Rouge, LA. Senior Traffic Engineer. Responsible for ITS design support and Microstation-based plan development, quantity take-offs and quantity summary sheets, developing construction detail sheets, and creating as-built plan sheets. The project included installation of approximately 35 miles of fiber and wireless communication to provide interconnect between 13 CCTV/RVDs, four DMSs, and two HAR locations near Baton Rouge, Lafayette, and Opelousas, Louisiana.
05/07 – 08/08	Traffic Calming Guidelines, Gwinnett County, GA. Traffic Engineer. Responsible for preparing horizontal and vertical measures that control the vehicle operating speeds on streets. Seven traffic calming measures, their appropriate use, typical/minimum design requirements and construction details were provided to Gwinnett County.
06/08 – 09/09	Lithonia Ind Blvd Additional Service, DeKalb County, GA. Traffic Engineer. Responsible for traffic analysis for the proposed Linecrest Road extension between Ward Lake Road/Fairview Road and Bouldercrest Road. Responsibilities include traffic projections, modeling, signal warrant analysis and capacity analysis along the study corridor using SYNCHRO/SIM TRAFFIC.
04/09 – 06/10	I-85 KIA Interchange Design-Build, C.W. Matthews Contracting Co. GA. Traffic Engineer. Responsible for signing and pavement marking, signal design and ATMS design for the KIA interchange at I-85, Troup County, Georgia. The design included signing, pavement marking, signal and ATMS design primarily along KIA Parkway and KIA Boulevard, the major roads that provide access to the KIA plant. Additionally, signing and pavement marking along I-85 were done to accommodate the new interchange configuration.
05/09 – 08/10	Linecrest Rd - Add of Ward Lake, DeKalb County, GA. Traffic Engineer. Responsible for concept development for the proposed Linecrest Road extension between Ward Lake Road/Fairview Road and Bouldercrest Road. This involved traffic projections, modeling, signal warrant analysis and capacity analysis along the study corridor using Synchro/SimTraffic.
03/10 – 06/11	Encore Parkway Bridge and Streetscape, North Fulton Community Improvement District, Alpharetta, GA. Traffic Engineer. Responsible for concept development for the proposed Linecrest Road extension between Ward Lake Road/Fairview Road and Bouldercrest Road. This involved traffic projections, modeling, signal warrant analysis and capacity analysis along the study corridor using Synchro/SimTraffic.
08/10 – 03/12	Roswell Road Bridge Widening, City of Sandy Springs, Sandy Springs, GA. Traffic Engineer. Responsible for concept development for the proposed Linecrest Road extension between Ward Lake Road/Fairview Road and Bouldercrest Road. This involved traffic projections, modeling, signal warrant analysis and capacity analysis along the study corridor using Synchro/SimTraffic.

16. Staff Experience

	Name	Joe Berlin		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	12
	Title	Navigation Study	Years of Relevant Experience with Other Employer(s)	30
Degree(s)/Years/Specialization		MA/1993/Economics; BS/1979/Accounting		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Grant Development Support Brief Description: Joe is a Principal Economist specializing in cost-benefit analyses of environmental restoration projects, water projects, and transportation projects. He has developed models for estimating the benefits of harbor improvement projects and has experience with the economic models used for estimating the benefits of water projects, transportation projects, and environmental restoration projects. He has experience in writing policies, procedures, research and white papers and/or other public presentations for technical and/or public audiences. Mr. Berlin holds an MA in Economics from the University of New Mexico and a BS in Business Administration from Louisiana State University.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
02/13-05/13	Mississippi Department of Transportation, Preparation of Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Benefit-Cost Analysis for the I-20 at Vicksburg Bridge over the Mississippi River, Ridgeland, MS: Prepared the benefit cost analysis for a proposed project to increase the reliability of a Mississippi River bridge. The analysis was based upon transportation benefits, safety benefits, and environmental benefits. The \$4.3 million grant application was approved.			
03/19-06/19	Port of South Louisiana, Grant Application Port Infrastructure Development Program Grant Application, Reserve, LA: Prepared the successful \$13 million grant application to the U.S. Maritime Administration for improvements to the Port of South Louisiana's Globalplex Facility in Reserve, La. The grant application was based upon improving the efficiency of intermodal cargo transfers between truck, rail and ship.			
12/16-12/19	Greater Lafourche Port Commission Section 203 Channel Deepening Feasibility Study: Estimated the National Economic Development (NED) benefits of deepening channels within Port Fourchon. NED benefits are based upon supplying offshore petroleum exploration rigs, maintaining the rigs at new facilities within Port Fourchon, and exporting Liquefied Natural Gas (LNG). The Feasibility Study was approved by the Assistant Secretary of the Army.			
06/16-06/18	Port of South Louisiana, Container Feasibility Study, LaPlace, LA: Managed a feasibility study for a new multi-purpose dock. The dock is a long term goal of the Port of South Louisiana to foster economic development by facilitating new industries within the POSL jurisdiction and will have container loading capability. The feasibility study evaluated the potential to ship containers by barge throughout the inland navigation system from the Port's ideal location for transferring containers between ships and barges. The Study also evaluated rail connectivity and the cost of shipping containers by rail.			

16. Staff Experience

02/2024-10/24	MLK Bridge and Veterans Bridge Impact on the Sabine Neches Waterway, TxDOT, Austin, TX: Estimated the economic costs of air draft restrictions on the Sabine Neches Waterway. The cost benefit analysis determined the viability of replacing two major bridges. The limited air draft prevents the use of larger, more efficient vessels for transporting cargo, particularly the LPG tanker fleet. Petroleum companies are making major investments in LPG facilities and the efficient loading and operation of the tanker fleet is important for minimizing transportation cost. The petroleum industry is a mainstay of the local economy and providing efficient maritime transportation for exports is important to the region.
10/23-06/24	Brazos River Floodgates Economic Analysis, TxDOT, Austin, TX: Estimated the navigation impact and economic cost of transit delays at the Gulf Intracoastal Waterway (GIWW)-Brazos River Floodgates. The estimate was based upon outreach to stakeholders, and analysis of USACE data. The analysis determined that the cost to shippers and operators during four years of delays and accidents at the floodgates exceeds cost of floodgate replacement. Petroleum products and chemicals are the primary commodities shipped on the GIWW. The economic impact was estimated using RIMS II multipliers.
06/16-08/16	Mississippi Department of Transportation, Preparation of Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Benefit-Cost Analysis for US-49 in Harrison County: Prepared the benefit cost analysis for highway improvements on US-49 using the Federal Highway Administration BCA.Net Model.
02/13-10/13	Mississippi Department of Transportation, Jackson Airport Parkway Benefit Cost Analysis, Jackson, MS: Prepared the Benefit Cost Analysis Report for a new highway that would provide access to downtown Jackson. The benefits were estimated using the Federal Highway Administration BCA.Net Network Model and were based upon diversions of traffic from several highways.
06/23-10/23	Maritime Freight Forecast, TxDOT, Austin, TX: Reviewed the methodology and sources used to forecast maritime tonnage and value in the 2023 Texas Freight Plan and adjusted that forecast. The revised Maritime Freight Forecast in the Freight Plan was based upon surveys of Texas port authorities, analysis of green energy initiatives, and major petroleum related export facilities recently completed and under construction.
06/12-12/13	Feasibility Report for Federal Assumption of Maintenance of Cameron Loop, Cameron, LA: Developed portions of a port master plan for Cameron Port to better serve the offshore petroleum industry and to promote regional economic development. Estimated the NED benefits of maintaining a 24-foot deep channel connected to the Calcasieu Ship Channel.
04/19-07/19	Mississippi Department of Transportation, Infrastructure for Rebuilding (INFRA) Discretionary Grant Benefit-Cost Analysis for MS-76 in Itawamba County 2019: Managed the benefit cost analysis for highway improvements on MS-76. The successful \$54.2 million grant application provided for completing a new stretch of highway and improving existing intersections to increase economic competitiveness and increase safety. MS-76 will support freight movements between automotive manufacturing facilities in Huntsville, AL and Blue Springs, MS
07/11-11/11	Mississippi Department of Transportation, Preparation of Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Benefit-Cost Analysis for the Mississippi River Bridges Intelligent Transportation Systems, Ridgeland, MS, 2011: Prepared the benefit cost analysis for installing ITS hardware on Mississippi River bridges, including the I-20 Bridge. The transportation cost savings and the environmental benefits were estimated for a federal Tiger Grant application, which was approved by the U.S. Department of Transportation.

16. Staff Experience



Name	Bradley David Campbell, PE		
Firm	Burns Cooley Dennis, Inc.	Years of Relevant Experience with this Employer	15
Title	Principal	Years of Relevant Experience with Other Employer(s)	23

Degree(s)/Years/Specialization MS/1987/Civil Engineering, BS/1984/Civil Engineering

Active Registration Number/State/Expiration Date 12324/MS/December 2026, 35421/LA/September 2026

Year Registered	1990	Discipline	Civil Engineering
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Geotechnical MS Soils Brief Description: Bradley will support geotechnical investigations will encompass comprehensive studies to evaluate subsurface conditions, including soil and rock properties, groundwater levels, and other geotechnical factors influencing construction and stability. These investigations are critical for performing detailed analyses of slope stability, which involve assessing the potential for slope failures or movements under various conditions such as loading, weathering, or seismic activity. Based on these analyses, geotechnical engineers develop and design remedial solutions tailored to address slope failures or mitigate problematic slope movements. These designs may include reinforcement techniques, drainage systems, retaining structures, or grading adjustments, ensuring long-term stability and safety of the affected areas while adhering to environmental and regulatory standards.
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
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11/10-10/11	Ameristar Casino/Slope Stabilization Wall for the Southern Portion of the Ameristar Casino Site, Vicksburg, MS: Supervised a supplemental geotechnical investigation and performed stability analyses to stabilize the northern end of the deep-seated landslide that extends from the flat area above the river bend into the Forest Hill formation below the river bottom. This landslide extends to the south of the Ameristar site and is the same landslide that has been affecting the piers for the I-20 bridge and the Old Highway 80 bridges. The remedial design consisted of installation of approximately 116 micropiles extending to approximately El. -70 ft, and 110, 12-strand anchors. The anchors were oriented at about 10° from horizontal and extended a maximum length of 240 ft behind the wall into the Glendon formation limestone and marl located east of the scarp. The lock-off load for each anchor was 422 kips. The anchors and micropiles are both connected to a large CIP reinforced concrete wall face that extends between El. 70 ft and El. 107 ft. The wall was designed to provide over 200 kips/ft resistance against the landslide forces.
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09/11-03/12	Old Highway 80 Bridge Slope Stabilization, Vicksburg, MS: Designed two soil nail walls: one to stabilize the loess bluff below the Old Highway 80 bridge over the Mississippi River, and the other to stabilize the loess bluff immediately north of the bridge under the Navy Circle Overlook. Performed slope stability analyses to determine the required nail lengths and spacings. The first wall was a tiered wall with shotcrete facing, and the second wall had a wire mesh facing that allowed vegetation to grow through it. The second wall project was presented with the 2019 Engineering Excellence Grand Conceptor Award by the American Council of Engineering Companies (ACEC) of Mississippi.
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16. Staff Experience

11/20-06/22	I-40 WB Near MM 343 Slope Stabilization, Roane County, TN: Mr. Campbell was the design engineer for a VE slope stabilization system to stabilize a landslide affecting about 0.4 miles of I-40 W.B. The slope movements were deep-seated, over 100-ft deep in places, and were occurring close to the interface of the boulder stream colluvial, and the residual soils. The slope stabilization system consisted of 605, 12-strand tie-back anchors with design loads ranging from 377 to 422 kips. The total tieback loads imported to the landslide was about 235 million pounds. Each tieback reacted against an 8-ft by 10-ft reinforced concrete reaction blocks. Mr. Campbell supervised the slope stability analyses, designed the required anchor bond lengths, designed the reinforced concrete anchor blocks, and supervised the preparation of the shop drawings and specifications. This project was presented with the 2023 Grand Conceptor Award for Engineering Excellence by the American Engineering Council by the ACEC - Tennessee.
12/20-12/21 10/24-02/25	Landslide Stabilization, Vicksburg National Cemetery, Vicksburg, MS: Designed an Anchored Soldier pile and lagging wall and earthen berm to stabilize a landslide that occurred in 2020. Performed stability analyses and structural design of the retaining wall. The landslide occurred in the Byram formation of the Vicksburg Group. Construction of this project was delayed several years due to the archaeological search for skeletal remains of union soldiers that were displaced by the landslide.
07/24-08/24	Big Fill Landslide, Teton Pass, Teton County, WY: Prepared emergency design for a temporary soil nailed slope to allow for construction of the remediation of the Big Fill Landslide. The temporary 1H:1V nailed slope was 110 ft high, and consisted of 599 hollow bar soil nails and about 60,000 s.f. of wire mesh facing. Mr. Campbell performed stability analyses, design soil nails and wire mesh facing, and prepared drawings and specifications.
06/98-09/99	Hickman Bluff Landslide Stabilization Project, Hickman, KY: Design engineer for stabilization system for a large landslide along the east side of the Mississippi River. The design consisted of an approximately 150,000 s.f. soil-nailed slope to stabilize the landslide. The design also consisted of a row of prestressed anchors to protect against deep-seated failures, horizontal drains to protect against elevated pore water pressures, and a reinforced slope constructed with lightweight fill to allow for reclamation of an area at the top of the bluff. Mr. Campbell performed stability analyses and designed all elements of the stabilization design.
12/16-08/20	Natchez National Cemetery – Bluff Stabilization, Natchez, MS: Supervised geotechnical investigation, performed stability analyses and developed design concept for stabilizing the bluff at the VA Cemetery in Natchez, MS, which overlooks the Mississippi River. Design concept consisted of a 35-ft to 48-ft high, 1270-ft long soil nail wall constructed in the upper portion of the bluff. The soil nail wall incorporated prestressed anchors to protect against deeper global stability failures. Prepared drawings and specifications for the bluff stabilization. This project was presented with the 2023 Engineering Excellence Grand Conceptor Award by the ACEC - Mississippi.
04/24-10/24	U.S. 61 South of Redwood Retaining Wall Remediation, Warrant County, MS: Supervised geotechnical investigation and developed design recommendation for stabilizing an approximately 15-ft high reinforced earth wall (RERW) that was originally constructed near the toe of the bluff in 1986, and has exhibited movement over the years during periods of heavy precipitation. The geotechnical investigation included installation of slope inclinometers and vibrating wire piezometers. The inclinometers indicated that the wall movements were occurring due to a global slide surface located near the interface of colluvial clays and the Glendon formation of the Vicksburg Group. Mr. Campbell performed stability analyses and developed a stabilization design using two rows of driven stabilization piles in front of the RERW.

16. Staff Experience



Name	Colleen M. Campbell, PE		
Firm	Burns Cooley Dennis, Inc.	Years of Relevant Experience with this Employer	7
Title	Geotechnical Engineer	Years of Relevant Experience with Other Employer(s)	38
Degree(s)/Years/Specialization	BS/1980/Civil Engineering, MS/2008/Civil Engineering		
Active Registration Number/State/Expiration Date	20685/MS/12/31/2025		
Year Registered	2012	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Geotechnical MS Soils Brief Description: Colleen has a history of success supporting investigation and design of deep bridge foundations, including driven piles and drilled shafts, comprehensive geotechnical studies to assess subsurface conditions and structural stability under various loads. She understands that bridge scour requires detailed hydrodynamic analysis to predict erosion patterns and implement protective measures, such as scour-resistant materials or structural reinforcements, to safeguard bridge integrity. She has experience across various projects involving incorporating advanced engineering techniques to ensure durability and functionality in diverse conditions. Slope stabilization efforts focus on mitigating risks associated with slope movements or failures, employing methods like soil reinforcement, drainage systems, grading adjustments and the application of LRFD (Load and Resistance Factor Design) methodology.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
02/12-12/17	Various Bridge Replacement Sites in MS: As an engineer with MDOT, provided geotechnical investigation and deep foundation design recommendations for multiple bridges in the State of Mississippi for the Mississippi Department of Transportation (MDOT). Foundation recommendations included steel H-pile, concrete pile, steel pipe pile and drilled shaft foundations.		
05/19-09/19	Bridge Scour/Riverbank Revetment Stabilization: Engineering services consisting of geotechnical explorations, engineering and slope stability analyses were performed for riverbank revetment and countermeasure structures. Earthwork construction recommendations and specifications were provided to various extents based on project requirements. Recent landslide remediation projects include: • SR42 at Chickasawhay Riverbank Stabilization: Two separate storm events destroyed the west bridge abutment closing the bridge, then a second storm during construction altered the countermeasure and revetment locations and configurations.		
09/21-11/21	• US49 at Big Black River and Four Relief Bridges: The geotechnical evaluation revealed alluvial clay and sand above Yazoo clay (Jackson Formation) soils. Formational clay samples were evaluated by Texas A&M's Erosion Function Apparatus (EFA), and conventional geotechnical laboratory testing was performed to evaluate the soil scour rate and therefore delaying the replacement schedule for the scour sensitive bridge group.		
05/22-03/23	• US80, I20/I55 Pearl River Countermeasure and Revetments: Geotechnical investigations and stability analyses were performed for this bridge system over a 0.7-mile reach of the Pearl River. Geotechnical recommendations and construction specifications were provided based on the engineering analyses.		

16. Staff Experience

04/19 – 05/20	Landslide Remediation Projects: Engineering services consisting of geotechnical exploration and instrumentation plans, engineering evaluations, preliminary design of alternative remediation schemes, comparative alternative cost evaluations, final design of landslide remediations and preparation of construction stabilization plans, remediation and specifications and construction QA/QC. These services have been provided to various extents based on project requirements. Recent landslide remediation projects include:
12/17 – 03/18	• Bally's (formerly) Lady Luck Casino Entrance Road: Stabilization of a 300-ft long loess bluff slope sliding on the Byram clays (Vicksburg Formation) along the primary entrance road to the Vicksburg, MS, Casino just south of the I-20 Mississippi River Bridge. Stabilization consisted of construction a large buttress with stabilization piles. Portions of the upper slope stabilization consisted of 9-ft long earth anchors and permanent erosion matting.
02/20 – 04/21	• Old Mississippi River Bridge/Vicksburg NMP Navy Circle: Stabilization of a 220-ft long landslide below the Old Mississippi River Bridge northeast bridge abutment and below the NMP Navy Circle Overlook consisted of a 15,000 sq. ft. soil nail wall utilizing 35-ft to 40-ft long soil nail and both shotcrete and vegetated "Tecco Mesh" surface protection. The adjacent surficial landslide remediation consisted of a soil buttress and 4,800 sq. ft. riprap slope protection. • Vicksburg NMP Texas Monument: Daily QA/QC was provided for the stabilization of the loess bluff slope between the Texas Monument and the KCSRR. Stabilization consisted of a 230-ft long anchored soldier pile and lagging wall within the limits of the Vicksburg Civil War battlefield. Structure and vibration monitoring, construction inspection, materials testing, 120-ft long soil anchor proof testing and daily documentation of the construction progress were provided.
06/21 – 03/22	Bridge Projects: Geotechnical engineering for bridge deep foundations consisting of driven pile and drilled shaft design recommendations, construction monitoring for trial shaft, test shaft, and bridge shaft construction.
04/25 – 09/24	• Parkers Lake Bridge Replacement, Jackson County, MS: The trial shaft revealed that unanticipated significant scour occurred into the Pascagoula formation soils requiring field design and modification of each of the eight (8) 72-in. diameter drilled shaft foundations. All drilled shafts were construction from a barge group on the lake.
02/20 – 09/20	• Merrill-Salem Road Bridge over the Pascagoula River, George County, MS: The 1,000-ft long river bridge foundation consisted of four 78-in. and four 90-in. diameter drilled shafts and eight concrete pile bents. The foundation contractor's trial and test shafts were strictly monitored to mimic the construction of the eight drilled shafts to be constructed from a trestle bridge over an environmentally sensitive reach of the Pascagoula River.
04/19 – 05/19	• Kemp Bottom Road Bridge Replacement over Hennesseys Bayou, Vicksburg, MS: Erosion and scour of the bayou channel caused slope failures at the riverbanks and exposure of the piles. Four 60-in. diameter drilled shafts and two pile bents were constructed through the Mississippi River alluvial deposits for construction of the 300-ft long replacement bridge and stabilization of the riverbank slope failures. • Lake Harbour Drive Extension, Madison County, MS: The deep foundations for the 450-ft long bridge over Interstate I-55 consisted of fifteen 54-in. diameter drilled shafts in Jackson formation Yazoo clays. Construction monitoring of the trial and test shafts and subsequent bridge shafts was conducted.

16. Staff Experience



Name	Donald "Nick" Corda, PE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	40
Title	Sr. Structural Engineer	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization	BSCE/1981/Civil Engineering, MSCE/1983/Structural Engineering		
Active Registration Number/State/Expiration Date	15472/Maryland 7-21-2025 Additional active licenses: PA, DE, DC, VA, TX (PE) UT(SE)		
Year Registered	1987	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Bridge Design Brief Description: Design and analysis of concrete and steel bridges – including signature, movable and major river crossings – as well as other transportation-related structures including airport and underground transit facilities. Specific expertise includes the design of steel truss / arch and concrete arch superstructures, tall piers, and structure Rehabilitation. Served as a Design Manager and Technical Lead for major design-build projects.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
06/23-ongoing	Brent Spence Bridge – I-71 and I-75 over Ohio River – Covington, KY/Cincinnati, OH: Structural Advisor for the preliminary and final design for the rehabilitation and load rating of this three-span cantilevered double-decker through-truss which features an 830-foot main span and two 453-foot anchor spans. The rehabilitation includes a complete deck replacement, new false chord connections to the suspended span, analysis and detailing of new connections between the stringers and floor beams, expansion joints, lighting and drainage structures, access facilities, and substructure repairs. The load ratings include the main members, as well as the gusset plates and false chord connections.		
03/23-09/24	Delaware River Port Authority, Commodore Barry Bridge - US 322 over Delaware River, Chester, PA to Bridgeport, NJ: Technical Lead for Rehabilitation Design of main truss spans (822'-1,644'-822') including design of new expansion wind link bushings/pins and temporary bracing to carry additional weight of painting shields for primary diagonals at interior supports.		
02/19-08/24	Gordie Howe International Bridge – I-75 (Spur) over Detroit River – Detroit, Michigan / Windsor, Ontario: Task and Technical Lead for the final / detail design of the main pier tower footing caps and vertical pier sections. These two reinforced concrete piers are approximately 725 feet tall and support a 2,800-foot main span with two 1,170-foot flanking spans. The bridge deck width is approximately 117 feet and is configured for 6 or 8 lanes of traffic with shoulders and pedestrian access. The design includes a lateral post-tensioned tie beam framing between the pier footing caps, conventionally reinforced solid and hollow section pier legs, and corbel sections for support of the superstructure edge girders. The design analyses include strut-and-tie (primary reinforcement) and solid element sub-models (cracking/serviceability analyses).		
08/14-06/15	Honolulu Authority for Rapid Transit – Light Rail System – Farrington Highway Station Group (Waipahu and West Loch Elevated Stations) – Honolulu, HI: Lead Engineer for the design review and development of coordination submissions (rail guideway and pier construction) for the steel tube pedestrian bridge "dapped" truss structures and ancillary elements. Work included development of a seismic design model, construction temporary works (bracing elements) and ancillary elements of these structures.		

16. Staff Experience

03/11-10/11	Rio Tinto, Kennecott Utah Copper/Pipeline Bridge over Route 201 – Magna, UT: Technical Lead for the Seismic Evaluation and Rehabilitation Study for this 1100-foot long twelve-span continuous steel truss and girder structure supported on steel trestle bents and concrete pier shafts. A three-dimensional GT STRUDL model accounting for pipeline fixities and soil-structure interaction of the spread and deep foundations was developed. The analysis was based upon the criteria associated with a separate site-specific seismic study, which considered both serviceability and catastrophic seismic events. The structural evaluation was based upon the ATC/MCEER LRFD Guidelines for the Seismic Design of Highway Bridges. Techniques for the proposed rehabilitation, as well as the estimated construction cost and scheduling (including facility outages) were also developed as a part of this project.
03/09-06/13	Kentucky Transportation Cabinet, U.S. Route 60 over Tennessee River, Paducah, KY: Principal Designer/Technical Lead for three-span continuous through truss superstructure. Design features a 900-foot main span with 400- and 500-foot flanking spans. A lightweight design with Warren bracing and no vertical members is utilized, along with Vierendeel wind-bracing. The main-span unit is designed using a three-dimensional space truss model to evaluate wind, as well as seismic response. The structure is located in the New Madrid fault zone, and site-specific response spectra were developed. The project was the recipient of an ACEC National Award.
03/08-09/08	Wm. Preston Lane, Jr. Memorial Bridge (Eastbound and Westbound Chesapeake Bay Bridges), Annapolis, MD: Structures Lead for the main member gusset plate analyses and evaluations of the suspension span stiffening trusses and a series of deck trusses, through trusses, and girder approach spans for these twin four-mile-long structures. The adequacy of the gusset plates is determined in accordance with AASHTO, FHWA and NTSB guidelines. The analyses identified critical sections based upon fabrication drawing details and maximum stresses, connection forces, and buckling capacities are evaluated.
03/05-10/05	Wisconsin Department of Transportation, Cass Street Bridge, LaCrosse, WI: Lead Engineer responsible for development of a fatigue evaluation and strain gauge study for the rehabilitation of this three-span steel-cantilevered thru truss (978 feet long) over the Mississippi River. Other responsibilities included development of a redundancy system for suspended-span truss hangers utilizing post-tensioned bridge strand.
02/93-10/94	South Dakota Department of Transportation, Forest City and Mobridge Bridges, SD: Project Engineer for the structural rehabilitation (fatigue retrofit) and Inspection Team Leader for inspection and evaluation of these two major 4,000-foot truss crossings over Lake Oahe and Missouri River. Rehabilitation included development of repositioning of the longitudinal pin connections associated with movements related to the adjacent landslide stabilization work, fatigue retrofits for top lateral bracing members subject to wind induced vibration loading, as well as the design of a new underbridge inspection traveler system.
01/85-10/87	West Virginia Department of Transportation, Glade Creek Bridge (I-64), Raleigh County, WV: Structural Engineer for design of portions of superstructure of this 1,900-foot-long, three-span continuous truss bridge on I-64, as well as review of shop drawings for superstructure and substructure erection schemes for 300-foot tall main piers.

16. Staff Experience

	Name	Richard Davidson		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	41
	Title	VP, Engineering	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		MSc/1977/Geotechnical Engineering BS/1975/Civil Engineering		
Active Registration Number /State/Expiration Date		PE22430/CO/10/31/2025 Additional active licenses; AZ		
Year Registered	1984	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Landslide Stabilization Brief Description: Richard is a seasoned professional with extensive experience in civil engineering on a wide variety of major infrastructure projects. His responsibilities range from project management to technical consulting to resident construction engineer. Additionally, Richard's breadth of experience ranges from building some of the largest earth-rockfill dams in the United States to rehabilitating century-old puddle clay core dams and masonry dams, to stabilizing landslides, as well as deep excavations and tunnels. He has designed tailings dams all over the world and worked on some of the tallest buildings in the world, as well as many power facilities. His in-depth knowledge of civil engineering practices is extensive which fuels critical decisions that garner exceptional client service, quality results, and enduring value across the organization.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
09/88-08/06	Principal Engineer, Forest City Bridge Landslide on Oahe Reservoir, South Dakota DOT: Richard led the Woodward-Clyde team working with Greiner Engineering, now both part of AECOM in the design and construction of the successful landslide stabilization. This 10 million m3 landslide on Pierre shale caused severe damage to this important bridge. The solution included a major unloading to relocate the highway, slurry wall barrette shear pins around the approach embankment, modification of the bridge, drainage measures and relocation of facilities on the slide mass. The project won engineering awards from ACEC and the state of South Dakota.			
03/88-05/88	Cajun Oxbow Lignite Power Station, Coushatta LA: Richard provided consultation to the project team on geotechnical investigations, pressuremeter testing and foundation design for a new lignite brown coal power station along the Red River. He also provided slurry wall design consultation to Phillips Coal for their Delta Star Mine, also in Louisiana.			
09/14-09/17	Duke Energy, Ash Basin Dams, North Carolina, South Carolina, IN: Principal reviewer of the reconstitution of designs for various ash basins. This work included remediation of the embankments to meet all regulations.			

16. Staff Experience

05/88–09/88	Mississippi River Bridge Crossing, Natchez MS. Richard conducted investigations and design analyses of the large pier foundation for this new bridge across the Mississippi River.
04/14–02/19	Risk Advisory Panel and Owners Engineer, Boone Dam, TN, TVA: Participation in expert panel in developing risk estimates and remedial measures for seepage and piping issues for this dam founded on Karst. Directing AECOM in Owner's Engineer role during remedial works construction.
06/13–06/17	PacifiCorp Energy, Electric Lake Dam, Wasatch Plateau, UT: Principal-in-charge overseeing team evaluating an existing 150-foot-high earth-rockfill dam. Work included a potential failure mode analysis, geotechnical investigations, and engineering analyses.
04/07–06/17	US Corps of Engineers, Wolf Creek and Center Hill Dams, Russell County, KY: Advisory panel member on the technical advisory panel for two dams that represent the highest dam safety risk in the entire inventory of 600 dams owned and operated by the Corps of Engineers. Addressing seepage and piping issues associated with grouting and cutoff wall construction through the Karst limestone foundation.
04/07–07/16	US Army Corps of Engineer, Nashville District, Wolf Creek and Center Hill Dams: Serving on technical advisory panel for Wolf Creek and Center Hill Dams in Kentucky. These two dams represent the highest dam safety risk in the entire inventory of 600 dams owned and operated by the Corps of Engineers. The Board is helping the Corps address seepage and piping issues associated with grouting and cutoff wall construction through the Karst limestone foundation.
04/06–08/08	Taum Sauk Upper Reservoir, Lesterville, MO, working for Rimkus and VeriClaim,: Principal-in-charge led team developing an alternative repair option for a failed reservoir. Original dam was a 100-foot-high concrete face rockfill dam built in the early 1960s. The repair option was comprised of a new lining system, spillway, and shear key and rockfill buttress. Assignment required close interaction with forensic, adjustor, and legal teams.
01/79–01/84	US Corps of Engineers, Clarence Cannon Dam Geotechnical Safety Program, Hannibal, MO: Project engineer led a team conducting a geotechnical safety program for a major new dam on the White River. During construction, the team was commissioned to complete a risk-based review of concrete monoliths, embankment, and abutments. Various dam safety issues were evaluated, including hydraulic fracturing, foundation uplift and monolith stability, excess pore pressures in the embankment, and seepage through a Karst abutment. Work led to one of the first automated data acquisition systems for various critical area instrumentations.
01/79–01/84	US Army Corps of Engineers, Clarence Cannon Dam Geotechnical Safety Program, Hannibal, MO: Project engineer led a team conducting a geotechnical safety program for a major new dam on the White River. During construction, the team was commissioned to complete a risk-based review of concrete monoliths, embankment, and abutments. Various dam safety issues were evaluated, including hydraulic fracturing, foundation uplift and monolith stability, excess pore pressures in the embankment, and seepage through a Karst abutment. Work led to one of the first automated data acquisition systems for various critical area instrumentations.
01/77–01/85	US Army Corps of Engineers, Mississippi River Locks and Dam No. 26, St Louis District, MS: Project engineer on a \$13 million test program conducted to rehabilitate a river navigation structure using chemical grouting, piles, drilled piers, and rock anchors. Also participated in the new dam construction associated with cellular cofferdam issues, pile foundation, instrumentation, and other geotechnical issues.

16. Staff Experience

	Name	Ari Deitch, PE, PTOE, PTP, RSP1		
	Firm	Arcadis	Years of Relevant Experience with this Employer	11
	Title	Senior Transportation Engineer	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BS/2012/Biological Engineering, Louisiana State University		
Active Registration Number/State/Expiration Date		PE.0041842/LA/Exp. 03/2026; PTOE #4346/USA/Exp. 11/2026 PTP #690/USA/Exp. 07/2025; RSP #37/USA/Exp. 12/2027		
Year Registered	2018	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Traffic Forecasting Capacity Analysis & Simulations Brief Description: Ari is a Transportation Engineer and Senior Traffic Engineer specializing in traffic safety, traffic engineering and design, safety, transportation management, and conceptual roadway design. He has experience managing and working on projects for LADOTD and the City of Baton Rouge, as well as other DOTs across the country, pertaining to NEPA studies, interchange modification/ justification reports, Stage 0 feasibility studies, transportation management plans, traffic, and safety studies, ped/bike improvements, access management, signal design, and signing/marketing design. He has experience and proficiency in IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software.		
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
07/14 – ongoing		Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. Traffic Engineer. Responsible for traffic analysis of proposed alternatives using Vissim software. Played a key role in the development of preliminary roadway design drawings incorporate safety measures. Work involved completing an Environmental Assessment and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Developed an Interchange Modification Report including traffic study results and responses to FHWA Policy Points.		
04/22 – ongoing		LA 30 (I-10 to EBR Parish Line) Environmental Assessment, LADOTD, Ascension Parish, LA. Senior Traffic Engineer. Responsible for technical advisory of traffic engineering tasks including traffic data collection, peak period observations, volume projections and Highway Capacity Analysis (multi-period analysis using Highway Capacity Software) and ensuring conformance with LADOTD TEPR Requirements.		
03/17 – ongoing		I-49 Supplemental Environmental Impact Statement, LADOTD, St. Mary Parish, LA. Senior Traffic Engineer. Responsible for traffic engineering tasks including data collection, volume development, Vissim microsimulation model calibration, and alternative development and analysis. The purpose of the project is to conduct a Supplemental Environmental Impact Statement (SEIS) study to quantify the impacts of converting US-90, which has numerous existing access connections, to a control of access interstate (future I-49) facility. Because the study area is not included within an MPO area, Arcadis developed a unique volume development methodology to estimate the redistribution of traffic that would result from the conversion of US-90 to I-49.		

16. Staff Experience

05/19 – 11/22	I-20 / I-220 Interchange Imp. and BAFB Access TMP and IMR, LADOTD, Bossier Parish, LA. Traffic Engineer. Responsible for development of addendum to Interchange Modification Report, Transportation Management Plan, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20 / I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.
04/16 – 09/18	New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA. Project Manager. Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes and selecting safety countermeasures for 20 high-risk locations. Developed design drawings for proposed short-term and long-term improvement phases and conducted benefit-cost analysis to inform project prioritization. Conducted safety analysis using Highway Safety Manual predictive methods. Organized and lead project stakeholder meetings to review alternatives, obtain feedback, and develop context sensitive solutions. Completed Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists for all 20 intersections.
08/14 – 10/18	US 71 Corridor Traffic and Safety Study – Phase 1-3, LADOTD, Rapides Parish, LA. Traffic Engineer. Responsible for providing traffic data collection, warrant studies, traffic analysis, safety data analysis, and development of conceptual layouts. Data collection effort included automated one-week counts, manual turning movement counts and spot speed studies. Collected crash data for the most recent three years from LADOTD crash database, analyzed crash summaries and identified historical high-crash locations and over-representative crashes, determined crash types, frequencies and crash rates, reviewed individual crash reports to determine type and location of each crash, identified crash "hot-spot" locations, contributing factors for high-crash rates, and determined potential improvements.
11/20 – ongoing	I-10 CMAR, LADOTD East Baton Rouge Parish, LA. Traffic Engineer. Responsible for wide range of traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment.
10/19 – ongoing	I-10 New Orleans to Slidell Hard Shoulder Running, LADOTD, Orleans Parish, LA. Traffic Engineer. Responsible for the development of conceptual drawings and typical sections for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Purpose of the project is to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor.
08/19 – 02/20	Traffic Engineering IDIQ - US 61 Access Management and Corridor Study, LADOTD, East Baton Rouge Parish, LA. Senior Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Provided technical oversight for traffic analysis using Highway Capacity Software 7, signal warrant analysis, and predictive safety analysis. Assisted with the development of construction cost estimates and benefit-cost analysis.
02/15-01/18	Traffic Engineering IDIQ - LA 3105 (Green Acres to LA 72) Corridor Study, LADOTD, Bossier Parish, LA. Traffic Engineer. Responsible for development/evaluation of existing and future year conditions using a calibrated microsimulation model (Vissim). Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and signal timing enhancements.

16. Staff Experience



Name	Brin Ferlito, PE, PTOE		
Firm	Vectura Consulting Services, LLC	Years of Relevant Experience with this Employer	9
Title	Traffic Analysis	Years of Relevant Experience with Other Employer(s)	27

Degree(s)/Years/Specialization		BS/1988/Civil Engineering	
Active Registration Number/State/Expiration Date		PE.0025383/LA/9.30.25 PTOE Exp. 9/9/2027	
Year Registered	1993	Discipline	Civil
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Traffic Data Collection Brief Description: Brin has served as a project manager for design of traffic signal plans, with responsibilities that included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout just to name a few. Her expertise includes development of construction plans, data collection, special provision specifications, quantities, and cost estimate.	

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/19- ongoing	H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP, Belle Chasse, LA. Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by DOTD.
09/20-12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA. Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.
09/20-12/21	SP 700-99-0477 Jefferson Hwy. Signal Design, Baton Rouge, LA. Brin designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.
04/14-12/14	H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project, Baton Rouge, LA. As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Brin developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/21- ongoing	H.007160-EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA. Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.

16. Staff Experience

	Name	Clara Foshee, PE, PTOE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	1
	Title	Transportation Engineer	Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization		BS/2015/Civil Engineering, Louisiana State University		
Active Registration Number/State/Expiration Date		PE.0044568/LA/Exp. 09/2026; PTOE #5800/LA/11/2027		
Year Registered	2020	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Traffic Forecasting Capacity Analysis & Simulations		
		Brief Description: Clara is a Transportation Engineer specializing in traffic safety, traffic engineering and design, transportation management, and conceptual roadway design. Ms. Foshee has experience working on a range of transportation projects for LADOTD and various local municipalities pertaining to traffic and safety studies, corridor and intersection studies, access management, and pedestrian and bicycle improvements. She has experience with Highway Safety Manual and Highway Capacity Manual methods and is proficient in HCS, Synchro, and Sidra analysis software. Ms. Foshee has completed the LADOTD Traffic Engineering Process and Report Training.		
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
03/22 – 07/23		Morrison Road (Mayo – Bullard) Road Improvement Study, City of New Orleans / LADOTD; Orleans Parish, LA. Project Manager and Traffic Engineer. Responsible for overseeing and managing project tasks including traffic data collection and analysis, warrant studies, traffic operational analysis, safety analysis, alternative and countermeasure development, and conceptual drawings.		
04/23 – 07/23		Distribution Center Traffic Impact Study, LADOTD; Ouachita Parish, LA. Project Manager and Traffic Engineer. Responsible for overseeing and managing project tasks including traffic data collection and analysis, warrant studies, safety analysis, predictive traffic routing, traffic operational analysis, and alternative and countermeasure development.		
10/19 – 07/20		LA 1065 at LA 3234 Intersection Control Evaluation, LADOTD; Tangipahoa Parish, LA. Traffic Engineer Intern. Performed project tasks including traffic data collection and analysis, warrant studies, safety analysis, traffic operational analysis, and alternative development and analysis.		
06/18 – 03/20		LA 445 at Interstate 12 Safety Assessment, LADOTD; Tangipahoa Parish, LA. Traffic Engineer Intern. Performed project tasks focused on assessing safety operations of existing interchange and developing appropriate countermeasures to improve safety for motorists.		
10/19 – 07/20		LA 437 at Wymer/Planche Intersection Control Evaluation, LADOTD; St. Tammany Parish, LA. Traffic Engineer Intern. Performed project tasks including traffic data collection and analysis, warrant studies, safety analysis, traffic operational analysis, and alternative development and analysis.		
02/17 – 10/18		LA 22 at LA 21 / LA 1077 Roundabout Study, LADOTD; St. Tammany Parish, LA. Traffic Engineer Intern. Performed project tasks including extensive traffic data collection and analysis, warrant studies, safety analysis, predictive traffic routing, traffic operational analysis, and alternative development and analysis.		

16. Staff Experience

	Name	Jonathan Giardina, PE		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	6
	Title	Roadway Design	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2019/Civil Engineering		
Active Registration Number/State/Expiration Date		PE.49081/LA/09.30.2026		
Year Registered	2024	Discipline	Civil Engineer	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: LA Roadway Design Brief Description: Jonathan has experience in technical development for transportation engineering projects. Tasks and project experience include roadway design, waterline design, drainage layout and design, drafting and 3D modeling, construction submittal reviews, design plan development, construction cost estimating, document control, and plan checking.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
06/18-12/23	Coastal Protection and Restoration Authority (CPRA) of Louisiana, Mid-Barataria Sediment Diversion, Plaquemines Parish, LA: Roadway Designer. The project provides planning, engineering, and design services (\$1.5 billion CMAR project) for the creation of the Mid-Barataria Sediment Diversion Channel to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Jonathan worked on plan development, cost estimation, traffic report, roadway design calculations, guardrail design, plan checking, temporary traffic control planning and design, typical sections, and geometric details.			
01/21-ongoing	City of Baton Rouge, College Drive Enhancements Perkins Rd. to I-10, Phase 1 Concord Extension and Bennington Connector, Baton Rouge, LA: Roadway Designer. The overall project consists of planning and design of pedestrian and vehicular mobility enhancements for a 1.0-mile segment of College Drive which aims to provide a proposed road network connectivity and access management improvements that will reduce congestion, specifically in the northbound direction between Perkins Road and I-10. Jonathan worked on the 30% preliminary plans by performing roadway design calculations, corridor modeling, and plan production.			
03/23-ongoing	Louisiana Department of Transportation, LA 561 Boeuf River Bridge Replacement Near Hebert, Caldwell and Richland Parishes, LA: Roadway Designer. The project consists of the replacement of a 700 ft through truss bridge with a new prestressed concrete girder bridge and development of the horizontal and vertical geometry for the bridge replacement on the existing alignment while updating the typical section of the road to current standards and modifications to the adjacent gravel local road, Womack Road, that serves four residences along the Boeuf River. Jonathan worked on the Preliminary design phases by performing roadway design calculations, roadway and drainage layout, modeling, and plan production.			
11/19-02/23	City of New Orleans Department of Public Works, Broadmoor Neighborhood Reconstruction, New Orleans, LA: Roadway Designer. The project includes a complete reconstruction of 22 neighborhood blocks within the Broadmoor neighborhood in New Orleans. Reconstruction includes the roadway, concrete sidewalks, concrete curbs and/or gutters, driveway aprons, water lines, and stormwater system and corresponding infrastructure. Jonathan assisted in preliminary design, roadway design, water line design, quantity and cost estimating, design plan development, and client meetings.			

16. Staff Experience

01/19-01/24	City of New Orleans Department of Public Works, Milan Group A, New Orleans, LA: Roadway Designer. The project consisted of reconstruction/restoration of roadways in the Milan neighborhood, which is bounded by Napoleon Avenue, Claiborne Avenue, Louisiana Avenue, and St. Charles Avenue. The project includes milling and overlaying with full depth patching of selected streets, incidental patching, sidewalk repairs, and repairs to drainage structures, and the installation of handicap ramps. Jonathan worked on the plan development, tabulation of quantities, and development of cost estimates.
09/20-01/23	East Baton Rouge Parish, MOVEBR Program, College Drive Stage 0 /TEPR Study, Baton Rouge, LA: The project aims to provide access management, signalization and capacity improvements along College Dr. RFP includes a flyover exit ramp from I-10 westbound Ramp to College Dr. Jonathan assisted with estimating costs of high-level design concepts utilizing the DOTD Bid Tab spreadsheet, road design, and plan development.
03/21-06/23	East Baton Rouge Parish, MOVEBR Program, Airline Highway/Jones Creek Road TEPR Study, Baton Rouge, LA: The project is providing traffic engineering for the proposed extension that will connect Tiger Bend Road and Airline Highway. Jonathan assisted with existing intersection analysis, queue, and unmet demand traffic counts along the corridor, and a traffic study report.
09/18-05/19	Jefferson Parish Department of Public Works, Mounes St. Drainage Improvements, Jefferson Parish, LA: Roadway Designer. The project consists of the design of traffic control plans and technical specifications for drainage improvements along Mounes Street. Jonathan worked on temporary traffic control design, quantity tabulation, and plan drafting.
11/22-06/23	Mississippi Department of Transportation, Directional Medians for US 49 from Orange Grove Boulevard to St. Charles Street, Harrison County, MS: The project consists of highway improvements and directional medians on US 49 from Orange Grove Boulevard to St. Charles Street. Jonathan performed J-turn analysis and design, roadway design, and plan development for conceptual plans.

16. Staff Experience



Name	Rannah Gray		
Firm	Marmillon Gray Communications, LLC	Years of Relevant Experience with this Employer	19
Title	Public Involvement Lead	Years of Relevant Experience with Other Employer(s)	22
Degree(s)/Years/Specialization	BA/1977/Journalism; MA/1979/Journalism		
Active Registration Number/ State/Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Public Involvement and Engagement Task Leader Brief Description: One of the state's most experienced public engagement professionals for transportation projects, Rannah has developed and implemented successful strategies for public and stakeholder outreach in Louisiana, Texas, Mississippi, Alabama and Florida. She serves as the communications and public engagement lead for the East Baton Rouge Parish MOVEBR Transportation and Infrastructure Program and has worked with four of the state's Metropolitan Planning Organizations (MPOs) on public involvement for transportation plans. Rannah has worked on environmental studies for the proposed Baton Rouge Loop project and the proposed Nicholson Corridor High-Capacity Transit System, which is now the Bus Rapid Transit project. She is a graduate of the 2013 Louisiana Leadership Class and her work has won over 20 national marketing and communications awards.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
07/19-present	MOVEBR Transportation and Infrastructure Improvements Program for East Baton Rouge Parish, Baton Rouge, LA. Rannah wrote the program's strategic communications plan, created the MOVEBR brand; manages media outreach, public events, in-person and online stakeholder outreach for more than 100 community enhancement and corridor improvement projects. The MOVEBR program is the largest transportation and infrastructure initiative in East Baton Rouge Parish history, providing an investment of over \$1 billion in capacity projects, existing corridor enhancements, community improvements and traffic signal synchronization.		
09/19-present	Local Public Agency Documented Planning Process for DOTD, Baton Rouge, LA. Rannah was the public outreach consultant for this project. She wrote the plan's public and stakeholder involvement chapters, including strategies for gathering in-person and online public input. She led development of toolkit templates and resources for to be used by smaller cities, towns and parishes for transportation planning. The project produced pilot plans in three communities—the city of Opelousas, the town of Amite City and Lincoln Parish. She led the public outreach efforts for all three pilot programs.		

16. Staff Experience

10/23-03/24	Public Outreach for Safe Streets for All (SS4A) Plans. Rannah was the public outreach lead for several clients while implementing their SS4A plans including, Capital Region Planning Commission (CRPC); South Central Planning and Development Commission (SCPDC); North Delta Regional Planning and Development District (NDRPDD), conducting outreach through surveys, public outreach events and stakeholder meetings.
07/17-05/23	Baton Rouge Travel Demand Management project (Commuter Krewe of Louisiana) for CRPC, Baton Rouge, LA. Rannah served as the public outreach and marketing lead. She was responsible for development of the Commuter Krewe brand, marketing plan, and promotional strategies for ride-sharing program. The Commuter Krewe program was developed to help reduce traffic congestion in the Capital Region.
04/18-10/18	ADA Transition Plan for Baton Rouge Parks and Recreation Commission (BREC), Baton Rouge, LA. Rannah was the lead for public outreach. She was responsible for the planning and implementation of stakeholder and public outreach activities, development of a database of advocacy organizations and people living with disabilities; management of accessible public meetings, surveys and stakeholder outreach; and creation of outreach materials. This project evaluated BREC facilities, gathered public and stakeholder input to determine priorities and developed a plan for bringing facilities into compliance with the Americans with Disabilities Act (ADA).
03/09-03/16	Implementation Plan and EIS for the Baton Rouge Loop project for the Capital Area Expressway Authority (CAEA), Baton Rouge, LA. Rannah served as the lead for public outreach. This included building stakeholder databases, managing stakeholder workshops, public meetings, surveys, elected official briefings and public hearings. The Baton Rouge Loop was a proposed by-pass around Baton Rouge to help reduce traffic congestion in the Capital Region.
09/15-12/16	Nicholson Corridor High-Capacity Transit System for East Baton Rouge Parish, Baton Rouge, LA. Rannah served as lead for public outreach. Her responsibilities included development of the TramLinkBR brand, and stakeholder and public outreach activities including workshops, public open houses and presentations to business, civic and neighborhood organizations. TramLinkBR was a proposed modern streetcar system connecting LSU and Downtown Baton Rouge. It has since been converted to a bus rapid transit route and is currently under construction.
04/15-04/16	Capital Region Metropolitan Transportation Plan Update for the Capital Region Planning Commission, Baton Rouge, LA. Rannah was the lead for public outreach. She managed public and stakeholder outreach, including developing the MOVE2042 branding, managing stakeholder and public outreach, surveys, public meetings and elected official outreach. This project provided an update of the long range transportation plan for the five parishes in the Capital Region MPO.
08/10-01/12	Capital Region Bicycle and Pedestrian Safety Campaign for the Capital Region Planning Commission, Baton Rouge, LA. Rannah was the prime consultant for creating a public education campaign in the five Capital Region parishes in the MPO. Her responsibilities included producing TV spots, collateral materials, and community outreach strategies. This project aimed to reduce bicycle crashes and pedestrian deaths and during the campaign, bicycle crashes decreased 24% in the Capital Region and 32% in East Baton Rouge Parish, while pedestrian deaths decreased 12% in the Capital Region and 31% in East Baton Rouge Parish.
01/10-09/11	East Baton Rouge Parish Comprehensive Master Plan for Land Use, East Baton Rouge Parish, Baton Rouge, LA. Rannah was the lead for public involvement. She wrote the public outreach plan and managed public engagement, stakeholder workshops and branding. This included developing the FUTUREBR logo, managing stakeholder workshops, public meetings, surveys and a public outreach effort that signed up over 2000 residents to be "citizen planners" to provide ongoing input. This plan replaced the parish's Horizon Plan for land use.

16. Staff Experience



Name	Meredith Guidry, PE, RSP		
Firm	Arcadis	Years of Relevant Experience with this Employer	4
Title	Project Engineer	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization	BS/2020/Civil Engineering, Louisiana State University		
Active Registration Number/State/Expiration Date	PE.0050062/LA/Exp. 09/30/2025; RSP #861/USA/Exp. 7/2025		
Year Registered	2021	Discipline	Transportation Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Traffic Forecasting Capacity Analysis & Simulations Brief Description: Meredith specializes in preparing grant applications for federal programs, conducting benefit-cost analyses, and supporting transitions to electric fleets for transit agencies and private companies. She is knowledgeable in equity considerations, EV funding opportunities, charging infrastructure, and vehicle emissions. Meredith has experience in crash safety analyses, traffic volume studies, and intersection modeling, alongside proficiency in MUTCD regulations. Her software expertise includes ArcGIS, MATLAB, and MicroStation, and she has completed LADOTD Traffic Engineering Process and Report Training.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
01/23 – 03/23	US 190 (Vine Street) Reconstruction RAISE Grant Benefit-Cost Analysis (BCA), LADOTD, Opelousas, LA. Grant Specialist. Project included providing support in the preparation of a Rebuilding America's Infrastructure with Sustainability and Equity (RAISE) grant application for DOTD for the reconstruction of Vine Street in the City of Opelousas. The project aimed to reconstruct Vine Street to meet current design standards, addressing roadway deficiencies, sub-surface utility, clear zone, and corridor inadequacies, while ensuring safety for vehicles and pedestrians. Responsibilities included the development of the Benefit-Cost Analysis and accompanying report for the grant application following the US DOT's Guidance for Discretionary Grant Programs. Participated in the development and final review of other grant proposal documents, including the project narrative, budget, and merit criteria documents, as detailed in the US DOT's Notice of Funding Opportunity (NOFO) for the 2023 Raise Program.		
7/23 – 11/23	I-10: US 90 Bus. To Elysian Fields (NO) Project FY 2022 Reconnecting Communities Pilot (RCP) Discretionary Grant Program, LADOTD, New Orleans, LA. Grant Specialist. Developed a Capital Construction Grant Application that told a compelling story to highlight project elements that aligned with the U.S. Department of Transportation's priorities. The project's scope of work involved a set of improvements to reclaim a New Orleans neighborhood riddled by historic inequities into a cultural amenity that serves to reconnect the sides of the divided neighborhood. The application included details on the project's funding and readiness, a description of the neighborhood's rich cultural history, a project overview, and letters of support from local stakeholders. The application also responded to seven merit criteria according to the RCP Program's NOFO, including Equity and Environmental Justice; Access; Facility Suitability; Community Engagement and Community-Based Stewardship, Management, and Partnerships; Equitable Development; Climate and Environment; Workforce Development and Economic Opportunity.		

16. Staff Experience

04/23 – 06/23	Charging and Fueling Infrastructure (CFI) Grant Application, Electrify MUSIC City: Municipality Upgrades for Stations and Integrated Charging, NDOT, Nashville, TN. Grant Specialist. Developed an EV grant application for the CFI Discretionary Grant Program for the City of Nashville's Department of Transportation's Electrify MUSIC City project, which aims to establish a reliable and accessible Electric Vehicle Charging Infrastructure (EVCI) network for the Nashville community. The project involved conducting technical studies and developing four deliverables, including Budget Information and Cost Estimates for the program, Merit Criteria, Project Narrative, and Project Readiness, which all focused on safety, climate change, equity, workforce development, and the vision of the CFI program. GIS was used to identify gaps across the existing EVCI network and determine optimal locations for the installation of EVCI using a set of parameters including flood zones, disadvantaged communities (DACs), population density, median income, railway stations, highway network, and existing EVCI network. Additionally, the services addressed risks and strategies for deployment, including public engagement and compliance with regulations like ADA and Justice40.
04/22 – 08/22	EV Charging Infrastructure Deployment Plan & Alternative Fuel Corridor Grant Program Nominations, MDOT, Jackson, MS. EV Specialist. Assisted in the development of the Alternate Fuel Corridors (AFC) nominations for MDOT. Provided multiple deliverables that reported on high level corridor information, including metropolitan areas and intermodal facilities along the corridor, corridor connectivity with the national network, census and demographics data for equity analyses and considerations, utility data/electrical grid requirements to identify needs and potential challenges for EV charging station deployment, existing and future state-wide conditions that affect EV adoption and operation, known risks and challenges for EV deployment, assessment of state's use of federal funding from the National Electric Vehicle Infrastructure (NEVI) Formula Program measured by the amount of charging leveraged per Federal dollar, engagement with rural, underserved, and disadvantaged communities, emergency and evacuation needs, State and Federal civil rights laws (including Title VI of the Civil Rights Act, the American with Disabilities Act (ADA), and Section 504 of the Rehabilitation Act), labor and workforce considerations, and the schedule and plan for evaluating performance in achieving 5-year goals and vision.
08/24 – ongoing	Strategic Fleet Electrification Plan, Government of the District of Columbia (DC), Washington DC. EV Specialist. Developed a Fleet Electrification Roadmap, prioritizing locations for EV charging infrastructure through detailed site and fleet assessments. Conducted a total cost of ownership analysis, evaluating financial models, grants, incentives, and potential carbon credits. Provided recommendations on vehicle, charger, and software selection, and optimized site designs for redundancy, resiliency, and energy management. Assessed vehicle-to-grid (V2G) feasibility and market opportunities.

16. Staff Experience

	Name	Colby J Guidry, PE		
	Firm	Huval & Associates, Inc.	Years of Relevant Experience with this Employer	18
	Title	Vice President and Lead Engineer	Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization		BS/2000/Civil Engineering		
Active Registration Number/State/Expiration Date		31338/LA/09-30-2026		
Year Registered	2004	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Bridge Design Brief Description: Colby, with seven years of experience at the Federal Highway Administration (FHWA), has expertise in environmental review, design, construction, and maintenance of bridges and roadways in Louisiana. At Huval & Associates, he has contributed to bridge and structural design, plan preparation, inspections, and construction management. Certified as a Bridge Inspection Team Leader, Colby has completed extensive training, including FHWA-approved bridge inspection, NHI LRFR for Superstructures, and various traffic control and hydraulic design courses. He is proficient with LADOTD Bridge Design Manuals and AASHTO specifications. Currently, he manages the Bridge Construction Program for St. Martin Parish and supports other municipalities and private clients.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/08-ongoing	Public and Private Bridge Load Ratings – Statewide: Lead Rating Engineer for bridges all across the state on a continual basis. Numerous load ratings are performed weekly for a host of clients including parishes, cities, oil field companies, and other clients. The ratings include bridge types such as timber, steel, concrete, movable, fixed, pontoons, and trusses.			
03/23-ongoing	Jimmie Davis Bridge (LA 511 – Design Build Project) – Shreveport, LA: Design Quality Control Manager for all design aspects of the project. The scope includes the design and construction of a new steel and concrete girder bridge over the Red River, as well as the complete rehabilitation of the existing LA 511 truss bridge and its conversion into a linear park.			
11/18-ongoing	Old Mississippi River Railroad Bridge and Tunnel (Old US80) – Vicksburg, MS: Served as the lead inspector and bridge designer for the ongoing annual inspection program, as well as for repair design and construction management on an as-needed basis. The bridge is a truss structure built in the 1930s. Over the past seven years, responsibilities have included leading the annual inspections of both the bridge and tunnel, performing emergency inspections on a 24-hour call basis for barge impacts and other structural emergencies, contributing to the design of multiple repair projects for the truss and substructure elements, and assisting with construction project management for various repair and maintenance efforts.			
10/10-01/22	Butte LaRose Pontoon Repairs (Movable) – St. Martin Parish: Lead Engineer for the design, Load Rating, and Construction Management of numerous repairs to the movable pontoon bridge over alligator bayou. Repairs included deck repairs, stringer repairs, cap repairs, pontoon barge repairs, machinery repairs, pile repairs, and abutment repairs.			

16. Staff Experience

4/18-4/23	Retainer for Engineering Services for Bridge Preservation–Statewide, Contract No. 4400011225: Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the \$4M retainer.
12/20-06/21	Ascension Parish 26 Bridge Ratings: Inspected, gathered documentation, rated, and provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.
01/16-12/17	Inner Harbor Canal Seabrook Bridge Structural Repairs – New Orleans, LA: Lead Engineer for the design of temporary and permanent repairs for the steel truss bascule bridge built in the early 1900's. The repairs were complex structural repairs to the floor system, bottom chords, laterals, stringers, and floor beams in addition to various mechanical system repairs. Adding to the complexity of this design was the requirement to perform many repairs under train live loads. An elaborate temporary jacking strut system was also designed to remove the dead and live loads in the various members during replacement.
09/12-12/17	Retainer Contract for Bridge Repair and Rehabilitation Services–Statewide, Contract No. 4400002537: Supervising Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, Load Ratings, and bridge rehab design for the \$6M retainer contract.
05/11-08/15	Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM)–Statewide, Contract No. 440001543: Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes.
08/09-06/15	Retainer Contract for Bridge Repair and Rehabilitation Services–Statewide, S.P. 700-99-0488: Lead Engineer of Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task Orders totaling approximately \$8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of bridge design and inspection.
01/13-11/15	Tappan Zee Bridge, NY Thruway Authority (Construction Support): Project Manager/design engineer for design of precast tower and anchor pier slabs, pile templates, work platforms, and other systems. Also assisted in the design of temporary fender systems designed to protect the construction area from ice, wave, and ship impacts.
01/11-08/14	St. Ann Bridge Over Bayou Terrebonne (Movable) Swing Span – S.P. 700-55-0107: Lead structural designer for a new Swing span bridge over bayou Terrebonne. Also assisted with Mechanical reviews throughout the design process. Colby was involved with every aspect of this movable bridge project from environmental clearance through construction. This swing span had unique issues to overcome due to the limited vertical space due to waterway and adjacent road obstructions. Also performed Construction Oversight for LADOTD during the entire construction process.

16. Staff Experience



Name	Gary Hawkins		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	17
Title	Archaeology Technician IV	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization	BA/2003/Archaeology		
Active Registration Number/State/Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Cultural Resources Brief Description: Gary will support the cultural resources team. He has over 17 years of experience conducting archaeological projects in the field and laboratory.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
01/21–Present	TXDOT (US-380) Phase I Cultural Resource Survey, Various Counties, TX: Field Archaeologist, Technical Writing		
05/24–06/24	TXDOT (SH-183) Background study for Historic Resources, Tarrant County, TX: Technical Writing		
05/24–05/24	TXDOT (SH-107) Phase I Cultural Resource Survey, Hidalgo and Cameron Counties, TX: Field Archaeologist		
09/20–10/21	Feasibility Study and Report/TEPR, College Drive, City of Baton Rouge/Parish of East Baton Rouge, Baton Rouge, LA: Technical Writing		
09/20–10/20	Port of South Louisiana (La 637) Stage 0 Report and EA, Baton Rouge, LA: Crew Chief, Technical Writing		
08/20–09/20	Airline Hwy./Jones Creek Road TEPR Study, Baton Rouge, LA: Crew Chief, Technical Writing		
08/17–10/17	DOTD, Coteau Road Phase I Cultural Resource Survey. Iberia Parish, LA: Field Archaeologist		
05/17–06/17	DOTD, Tendal Road Cultural Resource Survey. Madison Parish, LA: Field Archaeologist, Technical Writing, Lab Analyst		
02/17–03/17	TCR, Texas Light Rail Survey. Ellis, Navarro, Limestone, Leon, Madison, Grimes, Waller, Harris Counties, TX: Field Archaeologist		
01/16–03/16	DOTD, LA1042 Bridge Expansion. Helena Parish, LA: Field Archaeologist, Technical Writing		
10/15–01/16	DOTD, Pigeon Creek Bridge Expansion. Helena Parish, LA: Field Archaeologist, Laboratory Technician, Lab Analyst		
08/15–09/15	GDOT, Hereford Farm Road Extension. Colombia County, GA: Field Archaeologist		
05/15–06/15	DOTD, Berwick Interchange Environmental Assessment. St. Mary Parish, LA: Field Archaeologist, Laboratory Technician		
02/15–02/15	DOTD, LA3 Turn Lane Construction. Bossier Parish, LA: Field Archaeologist		
09/13–04/14	Stantec Consulting Services, Inc. Perkins Road (LA427) Segment #1, From Seigen Lane to Highland Road. Baton Rouge, LA: Technical Writing, Field Archaeologist		

16. Staff Experience



Name	Katy Hendricks		
Firm	Fahrenheit Creative Group LLC	Years of Relevant Experience with this Employer	10
Title	Director of Design	Years of Relevant Experience with Other Employer(s)	0

Degree(s)/Years/Specialization	BA/2015/Graphic Design		
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Active Registration Number/State/Expiration Date	N/A		
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Year Registered	N/A	Discipline	N/A
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Community Outreach and Stakeholder Coordination Brief Description: Katy collaborates with and leads Fahrenheit Creative Group's design team in developing excellent, compelling creative and innovative design solutions for clients. Her responsibilities include responsible leading branding development and collateral design for client projects while working with printers and vendors to coordinate any print and production needs.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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09/16-9/20	Hind County School District, MS. Communications and Community Engagement Support		
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04/19-10/19	Jackson Municipal Airport Authority, MS. Marketing Strategy and Implementation		
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03/18-12/19	Better Together Community Engagement and Education (WKKF, State of Mississippi, and City of Jackson partnership).		
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09/22-10/24	W.K. Kellogg Foundation and Community Foundation for Mississippi Jackson Water. Community Engagement and Education.		
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01/24-10/24	US Water Alliance and MS Alliance of Nonprofits and Philanthropy. Disaster Preparedness and Recovery Engagement		
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16. Staff Experience

	Name	Nelida Herrera, PhD, PE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	6
	Title	Traffic Analyst	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		PhD/2018/Civil Engineering MS/2015/Civil Engineering BS/2014/Civil Engineering		
Active Registration Number/State/ Expiration Date		PE.0047892/LA/9-30-25		
Year Registered	2023	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Traffic Modeling Brief Description: Nelida specializes in traffic modeling and is a prior Associate Director of Research for the Gulf Coast Center for Evacuation and Transportation Resiliency at Louisiana State University.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/20-Ongoing	I-10 CMAR Segment 1, LADOTD, Baton Rouge, LA: Traffic Engineer. Analyze different stages of construction of the I-10 CMAR Segment 1 project using calibrated mesoscopic model in Dynameq. The purpose of this task is to understand the impacts on traffic due to construction and develop the Transportation Management Plan.			
11/24–03/24	I-285 @ I-20 West Interchange Reconstruction Project, GDOT, GA: Traffic Engineer. Provide support in the analysis of VISSIM simulation models of I-285 @ I-20 West Interchange to evaluate proposed improvements of the system-to-system interchange and adjacent mainline sections. The analysis was done using the Dynamic Routing Assignment (DTA) feature in VISSIM 10. The goal of the project was to improve traffic operations to address geometric deficiencies to reduce recurring congestion, improve travel speeds, and reduce crashes.			
02/24–07/24	FM 734 Feasibility Study, City of Austin, TX: Traffic Engineer. Develop and calibrate VISSIM simulation models of a 10-mile segment of FM 734 arterial road including 22 signalized intersections. The purpose of the study was the analysis of traffic operations along this segment of FM 734 to support the schematic design of road widening and operational improvements along the corridor. The analysis was done using the Static Routing feature in VISSIM 2024. Assist in the corridor study using Synchro and preparation of modeling methodology report and calibration report.			
08/19–04/21	I-75 Commercial Vehicle Lanes, GDOT, GA: Traffic Analyst. Develop and analyze VISSIM simulation models of future no-build and build conditions. The project purpose was to evaluate the addition of a Commercial Vehicle (CV)-only lane facility next to I-75 for approximately 40 miles. The analysis of future no build and build conditions also included the evaluation of improvements on I-75 General Purpose Lanes and existing interchanges.			
05/19-07/20	FM 1960 Access Management, TxDOT, Houston, TX: Traffic Analyst. Develop and calibrate existing condition VISSIM simulation models and analyze future build conditions. Determine short, medium and long-range mobility, safety, and geometric solutions to improve travel time reliability, provide long-term mobility options and multi-model access, improve access management, provide an open public process and improve operations and safety.			
08/15-10/28	Applied Research Study for the Nuclear Regulatory Commission, LSU, Baton Rouge, LA: Research Associate. Understand the effects of simulation parameter variation on evacuation time estimates; scenario development and analysis of micro-simulation models developed using VISSIM. She currently has one journal publication from this project in the Transportation Research Record.			

16. Staff Experience



	Name	Toni Horst			
	Firm	AECOM Technical Services, Inc.		Years of Relevant Experience with this Employer	23
	Title	Grant Application Preparation		Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization		PhD/1997/Regional Science; BA/1986/Economics and Government			
Active Registration Number/State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Grant Application Preparation Brief Description: Toni leads AECOM's National Transportation Economics Practice. She has more than 30 years of experience. A regional economist, her work focuses on analyzing how infrastructure investment changes local economies. Her work focuses on the application of quantitative information to support transportation decision making. She is an economist with significant experience assessing projects and developing defensible analyses of project feasibility, economic impact, return on investment and benefit cost assessments. She is a member of TRB Committee ADD10, Transportation and Economic Development.			
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
03/23-07/23		Port of New Orleans, Grant Strategy Recommendations, New Orleans, LA: Project Manager. Oversaw the development of a grant strategy to apply for a first-of-its-kind approach combining artificial intelligence, data analytics, and stakeholder engagement with our leading ESG and federal grants advisory services staff to identify the discretionary programs most suitable for Port of New Orleans's projects. Tasks involved utilizing Fund Navigator to holistically review Port of New Orleans's existing and planned projects' capital needs to assess the suitability of these projects for accessing specific IIJA funding programs. This also allowed for the development of a near-term grant funding implementation strategy, which included the identification of which specific discretionary program should be accessed by which specific Port Project, the date that application development should begin and when applications were due, and a checklist of actions to be undertaken prior to application development (such as advancement of planning, design, cost estimation, etc.) to boost the competitiveness of the application.			
09/17-ongoing		Grant Application and Administration Support, International Bridge, Tunnel and Turnpike Association (IBTTA), Washington, DC: Project Director. Contract to support IBTTA in identifying funding opportunities, applying for and administering a discretionary grant from FHWA. IBTTA was awarded a grant for research in the fall of 2016. Since that time, work entails preparing monthly, quarterly, and annual reports and certifications to FHWA, developing templates to collect required data to document compliance with the grant requirements, and coordination between the FHWA, the grant recipient and project partners.			

16. Staff Experience

02/14-05/14	2014 Planning TIGER Application for Long Bridge EIS, Virginia and Washington, DC: Project Manager. Economic benefit cost, economic impact analysis, and full application narrative for Virginia Railway Express and the District of Columbia's joint TIGER application. The grant will support planning work needed to replace this bridge over the Potomac River between the District and Virginia, creating additional rail capacity to accommodate freight and passenger service and remove a bottleneck preventing the expansion of commuter service and eventual implementation of high-speed rail. The project was selected to receive TIGER funding.
01/17-12/19	North Carolina Department of Transportation, Roadway Planning & Design 2017-2020-2019 BUILD Grant Division 11 I-95, Raleigh, NC: Advisor. Toni was an advisor to the BCA team who wrote the narrative for the I-95 Resiliency and Innovative Technology Improvements Project, 2019 BUILD Application.
07/22-03/23	Northeast Ohio Areawide Coordinating Agency, NOACA Fund Navigator Analysis, Cleveland, OH: Project Manager. Oversaw the development of a grant strategy to apply for a first-of-its-kind approach combining artificial intelligence, data analytics, and stakeholder engagement with our leading ESG and federal grants advisory services staff to identify the discretionary programs most suitable for Port of New Orleans's projects. Tasks involved utilizing Fund Navigator to holistically review Port of New Orleans's existing and planned projects' capital needs to assess the suitability of these projects for accessing specific IIJA funding programs. This also allowed for the development of a near-term grant funding implementation strategy, which included the identification of which specific discretionary program should be accessed by which specific Port Project, the date that application development should begin and when applications were due, and a checklist of actions to be undertaken prior to application development (such as advancement of planning, design, cost estimation, etc.) to boost the competitiveness of the application.
01/16-12/16 BCA 01/18-12/18 Economic Impact	Economic Task Lead, The Gateway Program Economic Evaluation, Northeast Corridor, Amtrak, National: Task Lead. Toni is supporting this study to estimate benefit cost of Gateway Program (tunnels under the Hudson River) under three scenarios. The team led multiple stakeholders through data collection and definition of scenarios and assumptions through a facilitated workshop. Analysis includes an economic evaluation of the importance of the New York region to the Northeast Corridor and to the U.S. national economy. The economic work entails a benefit cost analysis and economic impact analysis. The benefits estimated include, but are not limited to, the net travel time savings, net travel costs, net safety benefits, net emissions avoided, and the costs of a trip not taken.
01/17-5/17	INFRA Grant Application for I-95/U.S. 70 Innovative Technology and Rural Mobility Corridor Improvements, North Carolina Department of Transportation, NC: Technical Lead. Responsible for writing the narrative and leading the economic analysis included in BUILD application. Developed technical memos and worksheets detailing all assumptions and calculations for the reviewers' reference including calculation of benefit cost ratios for project. The project improved the quality of US 70 to interstate quality in the remaining unimproved sections, widen I-95 and raised several low interchange bridges, and added broadband to both corridors to manage the facilities in an integrated manner. The project was selected for funding; project received \$147 million in discretionary funding.
02/10-5/10	TIGER Grant and Funding Scan, Dallas County, TX: Project Manager. Benefit cost analysis of road and drainage improvements. Study also entailed a scan of funding sources that could support capital investments in stormwater and water distribution systems. Each funding source evaluated for its applicability to Dallas County's needs. Those candidate sources that were most promising were researched in greater detail.

16. Staff Experience



Name	Evelio Horta, PH.D., PE, GE		
Firm	Ardaman & Associates, Inc.	Years of Relevant Experience with this Employer	33
Title	Principal Engineer	Years of Relevant Experience with Other Employer(s)	0

Degree(s)/Years/Specialization	Ph.D./1979/Technical Sciences in Soil Mechanics MS/1976/Soil Mechanics BCE/1969/Civil Engineering		
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Active Registration Number/State/Expiration Date	46625/FL/02-28-2027; 2976/CA/06-30-2025; 77531/CA/06-30-2025		
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Year Registered	1993	Discipline	Civil Engineering
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Historic Geotechnical Information & LA Soils Brief Description: Evelio has over 50 years of experience in geotechnical engineering, supervising investigations and preparing recommendations for various projects, including structures, highways, bridges, and dams. He oversees construction monitoring and testing, and manages environmental projects, including assessments and remediation. Evelio specializes in 3-D finite element analysis using Plaxis software and has trained USACE engineers in its use.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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10/09 - ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. Principal Engineer. The I-20 Bridge has been suffering displacements along the bridge alignment related to foundation movements on the river's Mississippi side. Evelio has served as Senior Geotechnical Engineer in charge of the numerical modeling of the river bluff and bridge foundations included within the 1200 x 1300 feet area. The analysis has been performed using two and three-dimensional numerical methods to provide repair recommendations that have been successfully implemented.		
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03/19-07/20	SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST): East Baton Rouge Parish, LA. Principal Engineer. Evelio developed numerical models for the proposed single shaft foundation, which would support bridge expansions at critical locations. The analysis was completed to assess the impact of the new construction on the existing pile foundations.		
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10/18 – 01/19	IHNC – LAKE BORGNE BARRIER GIWW TO MRGO, St. Bernard Parish, LA. Principal Engineer. Evelio was Senior Project Engineer for this project. Ardaman provided geotechnical analyses for Bayou Bienvenue Sector Gate, Advanced Measures at Bayou Bienvenue, and tie-in T-Walls at the GIWW and MRGO levees. The project included geotechnical analyses with regard to global stability, pile capacities, settlements, seepage, temporary retaining structures, etc. for the structures associated with this barrier. Specialized analyses include Plaxis, Slope W and UTexas4.		
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06/00-06/10	SR 826 IMPROVEMENT PROGRAM; SR 826/836 INTERCHANGE – FDOT, District 6, Miami, FL. Principal Engineer. Evelio served as Senior Geotechnical Engineer for this interchange which includes 50 bridges on variable soil conditions. The bridges will be supported on drilled shafts and driven piles. The soil investigation included about 230 borings extended to depths of 125 feet below grade.		
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16. Staff Experience

01/19-ongoing	UNCLE SAM STACK NUMBER 4 NORTH SLOPE, St James Parish, LA. Principal Engineer. Evelio developed the numerical model for the gypsum stack cell number 4 to assess the displacements that occurred during the stack construction, the stress-strain and excess pore pressure conditions of the stack and foundation soils at the time of the analysis. The model results allowed for an alternative assessment of the factor of safety under different water elevation conditions, and after the proposed repairs/improvements of the stack.
05/16-05/19	100 LAS OLAS, Fort Lauderdale, FL. Principal Engineer. Evelio served as Senior Geotechnical Engineer for the design and construction of the 48-story building that is currently the highest structure in Fort Lauderdale. The soil investigation included soil borings up to 150 feet below grade. A numerical model for the foundation system was developed to assess the building's settlement. The pile foundation solution for the building included the use of existing piles from a previous project on the site and the assessment of the construction on the potential settlement of neighboring structures. He instrumented two production piles to confirm predicted design forces. After two years of observations during construction, the instrumentation data confirmed the predicted settlements of about 0.6 inches under the tower.
08/19-10/23	THE DISTRICT, NORTH MIAMI AVENUE, Miami, FL. Principal Engineer. The project is a 39-story residential tower with an attached parking structure. Evelio, as Principal Engineer, supervised the geotechnical investigation that included soil borings to depths from 80 to 150 feet, performed laboratory testing, and provided pile foundation recommendations for the structure. He also completed a "foundation on piles" analysis in a value engineering effort to reduce the number of required piles that result from conventional structural analysis. A numerical model for the foundation system was developed to assess the building's settlement. After completion, the building's total settlement was 0.35 inches.
03/12-06/12	LAKE GREGORY DAM, SEISMIC ANALYSIS, San Bernardino County, CA. Principal Engineer. Lake Gregory Dam was built between 1936 and 1938, and an analysis to upgrade the safety of the Dam to current regulations was performed by Evelio as Senior Geotechnical Engineer. A cross-section of the Dam was modeled using the Plaxis 2D Computer Program using soil properties from the geotechnical investigation completed in 2011. A dynamic analysis of the dam using the acceleration vs. time input from the design earthquake was completed for the existing dam cross section. The same analysis was completed for the proposed cross-section to evaluate the effectiveness of the different repair measures.
07/04-Ongoing	SOUTH TERMINAL EXPANSION PROGRAM, MIAMI INTERNATIONAL AIRPORT, Miami, FL. Principal Engineer. Evelio served as Senior Geotechnical Engineer for this project which included the design and construction of the new terminal the new Concourse J and remodeling of Concourse H. Ardaman performed all soil testing and foundation inspection and testing for the new terminal (J) and remodeled terminal (H).
09/19-Ongoing	CARNIVAL CRUISE LINES PORT IN GRAND BAHAMAS, The Bahamas. Principal Engineer. Evelio, as the Senior Geotechnical engineer for the project, directed the soil investigation for the new pier that required performing borings to 125 feet below sea level. Also, soil borings were completed for the landside development that includes multiple structures. The geotechnical report included recommendations for drilled shaft capacity and construction as well as the landside recommendations for foundation support and site development.

16. Staff Experience



Name	Beatrice E. Hunt, PE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	13
Title	Principal Hydraulic Engineer	Years of Relevant Experience with Other Employer(s)	22
Degree(s)/Years/Specialization	BS/1983/Engineering Mechanics; MS/1985/Engineering Mechanics		
Active Registration Number/State/Expiration Date	32819/CT/1/31/2026		
Year Registered	1995	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: H&H Analysis and Scour Brief Description: Assessments, appraisals, analysis and design services in bridge hydraulics. Expertise includes hydrologic, hydraulic, scour and stream stability analyses for new and existing bridges over rivers and tidal waterways; hydraulic bridge design; bridge scour evaluations including screening, prioritization and management programs; bank stabilization and protection; river training; and the evaluation, development, and implementation of scour countermeasures and monitoring programs.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
10/15-ongoing	CTDOT Replacement of the Devon Bridge over the Housatonic River: Lead Hydraulic Engineer. Conceptual engineering design services for \$2.2 billion replacement of two parallel CTDOT/Metro-North Railroad bridges over 1,000 ft in length. Technical advisor for hydrology and hydrodynamic modeling (SRH2D), and lead for the scour evaluation for the proposed bridge alternatives and the existing bridges during the interim conditions. Lead hydraulic engineer for preliminary and final design plans.		
03/24-ongoing	ODOT Brent Spence Companion Bridge over Ohio River: Technical Advisor/QC Scour Engineer. Progressive Design-Build for a new bridge adjacent to the existing Brent Spence Bridge carrying I-71 and I-75 over the Ohio River and over 1,700 ft long. Technical advisor for the development of 1D HEC-RAS, 2D SRH2D and 3D CFD hydraulic models and for the QC review of the final proposed and existing bridges and temporary conditions scour analyses.		
10/17-08/21	MDOT Phase III & IV Scour Evaluations for Six Bridges: Technical Advisor/Reviewer. Responsible for advising for the Phase III, stability analysis and Phase IV, Plans of Action/scour countermeasure designs for six bridges in Mississippi. Developed new scour monitoring section for the Scour Plans of Action template for MDOT. The bridges include I-55 over Tangipahoa River, I-59 over Black Creek and I-59 over Little Black Creek.		
01/19-10/19	TxDOT Hydraulic Design Manual: Technical Advisor/Subject Matter Expert. Assisted with organization and revisions to Coastal Hydraulic Design chapter. Included chapter organization, interviews with FHWA, DOTs and national experts, and review of scour sections. Provided scour analysis/countermeasure support for a replacement design for Bayshore Drive Bridge in Rockport. This bridge was damaged during Hurricane Harvey in 2017 and is the only roadway connecting Key Allegro Island and the mainland. The scour analysis used the new HD Manual and was added as a case study to the Manual.		
04/17-10/22	MassDOT Replacement of Haverhill Bridge over the Merrimack River: Lead Scour Engineer. Responsible for the scour evaluation and report using the SRH2D hydrodynamic model results for the Basic Technical Concept and hydraulic CSS for the design-build replacement of the Haverhill Bridge (I-495 NB & SB) over the Merrimack River in Haverhill, Massachusetts. Bridge is 700 ft long cost was \$90 million.		

16. Staff Experience

01/16-12/20	NYSDOT Region 11 Cross Bronx Expressway over Bronx River: Lead Hydraulic Engineer. Replacement of two bridges over the Bronx River in The Bronx, New York. Responsible for hydrologic, hydraulic (HEC-RAS) and scour analyses and Hydraulic and Scour Report for the proposed bridges and existing bridges during interim conditions.
06/16-05/18	MassDOT Scour Coding and Compliance Program Phase 3: Scour Task Leader. Scour evaluations and coding recommendations for NBIS Item 113 (Scour) and related items for 13 bridges over waterways in District 3. Included hydrologic, hydraulic and scour analyses, and evaluation of existing scour countermeasures. Responsible for project approach and supervising data review, site visits, hydrologic and hydraulic (HEC-RAS) analyses, and Plans of Action. Responsible for scour evaluations for seven bridges, and scour countermeasure evaluations, scour ratings and final reports for 13 bridges.
08/09-02/11	MDTA Comprehensive Preliminary and Final Design Services: Lead Hydraulic Engineer. Hydraulic and scour support services for four long span bridges for Maryland Transportation Authority. Responsible for technical review of previous hydrologic, hydraulic and scour analyses of Hatem (Route 40) and Tydings (I-95) Bridges over the Susquehanna River. Supervised revisions to HEC-RAS unsteady flow model; conducted scour analysis for rock; and developed scour vulnerability ratings, scour countermeasure alternatives, and a Scour Plan of Action. Supervised scour evaluation of scour vulnerability ratings for dual span Chesapeake Bay Bridge, over 21,000 ft long, using the results of a 2D FESWMS hydrodynamic model. This included the hydraulic variables and scour analysis of 247 piers and abutments, and the Scour Analysis Report.
06/09-10/10	MassDOT Replacement of the Textile Memorial Bridge over Merrimack River: Lead Hydraulic Engineer. Supervised the hydrologic, hydraulic and scour analyses and preparation of the Hydraulic Report for the proposed Textile Memorial Bridge replacement project over the Merrimack River in Lowell, Massachusetts. The rock scour analysis was done using the Erodibility Index Method.
08/07-06/08	FHWA Hydraulic Engineering Circular No. 23 Update. Technical Assistant/Project Manager. Responsible for the development of new sections on Plans of Action and fixed scour monitors for revisions to the 3rd Edition of the U.S. bridge scour countermeasure guidelines, FHWA Hydraulic Engineering Circular No. 23, Bridge Scour and Stream Instability Countermeasures.
08/01-08/05	IDOT McKinley Bridge over the Mississippi River: Lead Hydraulic Engineer. Rehabilitation of this major 14,575 ft. highway and railroad truss bridge. Supervised the hydrologic, hydraulic (HEC-RAS), scour and stream stability analyses, Hydraulic Report, and design plans for three types of pier scour countermeasures - riprap, gabions and grout bags.
08/04-0307	National Academy of Sciences Practices for Monitoring Scour Critical Bridges, Synthesis 396. Principal Investigator/Project Manager. Studied practices on bridge scour monitoring using fixed instrumentation, which included a survey of the 50 state DOTs and other bridge owners, interviews, and synthesis of practice reports. The results documented successes, failures, case studies and future needs. The report, NCHRP Synthesis 396 "Monitoring Scour Critical Bridges", was published in 2009 and Bea conducted a national TRB Webinar on the synthesis results.

16. Staff Experience



Name	Tom Hunter		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	28
Title	NEPA Documentation/Public Engagement/Toll Analyses	Years of Relevant Experience with Other Employer(s)	12
Degree(s)/Years/Specialization	BLA/1984/Landscape Architecture		
Active Registration Number/State/Expiration Date	Certified AECOM Project Manager; NHI Course No. 142005, National Environmental Policy Act (NEPA) and Transportation Decision Making; Improving the Quality of Environmental Documentation Course (NEPA) 2014		
Year Registered	1984	Discipline	Landscape Architecture
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Principal Planner/Alternative Corridor Evaluation/Screening/NEPA Documentation Brief Description: Tom is a Principal Planner and AECOM Certified Project Manager for the Gulf Coast Region. He has over 40 years of experience leading and conducting multimodal transportation planning, environmental assessment and NEPA studies for transportation projects including roadway and bridge, ports and marine, rail and transit. He has led or participated in 17 transportation NEPA (EIS's and EA's) in Louisiana and Mississippi. His experience includes managing planning and NEPA studies for bridges over navigable waterways. He has experience in project coordination with FHWA, USCG, LDOTD, MDOT, MPO's, River Pilot Associations, shallow draft interests, local municipalities and numerous federal and state resource agencies. He has directly related experience in managing navigation analysis and simulations on the Mississippi River. He also has significant experience managing travel demand forecasting and traffic modeling and analysis for IJR's IMR's and traffic and revenue studies. In addition he has extensive knowledge of the federal transportation planning regulations, federal and state discretionary grant programs and has significant expertise in managing public and stakeholder involvement programs associated with transportation planning and environmental assessment initiatives.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
07/15-ongoing	DOTD, State Project No. H.004273.5 I-49 Lafayette Connector Supplemental EIS, Lafayette, LA. Principal planner for preparation of the Supplemental EIS for the 5.5-mile segment of I-49 South through urban area of Lafayette, LA. To date work has involved developing alternatives, coordinating with the CSS and design team members in a concept refinement process, evaluation of alternatives and NEPA documentation. AECOM has led all structural design elements for this project. Tom's role has focused on review of alternatives, public engagement, and facilitation of breakout groups for public and stakeholder engagement.		
05/17-2023	DOTD, State Project No. H.001779.5 Red River Bridge at Jimmie Davis Highway (LA 511) Supplemental EA, Bossier and Caddo Parishes, LA: Project principal for an Environmental Assessment (EA) to improve the capacity of the LA 511 crossing of the Red River. Tom helped lead a Supplemental EA for replacement of the Jimmie Davis Bridge over the Red River (a navigable waterway for shallow draft barge tows) and approach roadway improvements. The project included a traffic and toll analysis, development of alignment and bridge alternatives, evaluation of alternatives, public and stakeholder coordination and NEPA documentation.		

16. Staff Experience

05/07-12/15	DOTD, State Project No. H.005201 (H.008732), City of Baton Rouge, Baton Rouge Loop Implementation Plan and Tier 1 EIS Alternatives Evaluation and Travel Demand Modeling, Baton Rouge, LA: Tom functioned as the principal transportation and environmental planner and managed the travel demand modeling and toll analysis for this project, which involved Stage 1 NEPA services. The project included development and evaluation of new Mississippi River Bridge alternative alignments, navigation simulations, and coordination with the River Pilots and USCG. He also participated in the public involvement and outreach, was a leader in alternatives development and evaluations, led the management of the traffic modeling and a Level 1 Toll Study, and participated in NEPA documentation and quality control/quality assurance of the project.
03/04-07/05	Capitol Region Planning Commission (CPRC), Baton Rouge North Bypass Feasibility and Toll Road Study, Baton Rouge, LA: Deputy project manager and principal transportation and environmental planner responsible for development of a feasibility study for a 40-mile Northern Bypass of Baton Rouge. The project included the use and potential rehabilitation of the Huey P. Long Mississippi River Bridge in Baton Rouge. Tom led the alternatives development and evaluation, coordinated regional travel demand modeling services and traffic and revenue forecasts for the toll road alternatives, and was instrumental in implementation plan development. Tom also maintained a leadership role in the public involvement component of the project.
07/1-11/15	DOTD, State Project No. H.004932, Supplemental Environmental Assessment, US 90 at LA 318, St. Mary Parish, LA: Project Manager. Completed the Supplemental Environmental Assessment (SEA) as part of the design-build process for the project that included review and revision of the previous EA to include the ATC developed by the DB Contractor. Obtained a FONSI on a very aggressive schedule set by the DB contractor, FHWA, and DOTD (4 months). Led all aspects of project, including NEPA documentation, as the primary author.
02/08-08/09	DOTD, State Project No. 700-48-0107 Globalplex Intermodal Terminal Connector Roadway Environmental Assessment, St. John the Baptist Parish, LA: Project manager for the preparation of an Environmental Assessment (EA) associated with the 1.5-mile widening of LA 637 (West 10th St) between US Highway 61 and the Port of South Louisiana (PSLA) Globalplex Terminal. Led technical oversight of project deliverables, NEPA documentation, stakeholder coordination and public involvement. A FONSI was issued by FHWA in August 2009
10/10-05/15	DOTD, State Project No H.004424 Environmental Assessment – US 61 at LA 3125/Clearview Parkway, Jefferson Parish, LA: Project manager for the Environmental Assessment associated with intersection improvements at US 61 and Clearview Parkway in Jefferson Parish, Louisiana. Tom led the development of the EA and NEPA documentation. The project is in a densely urban setting with numerous concerns related to effects on existing utilities, infrastructure, and the human environment. The intersection is located on a major east-west route that provides for hurricane evacuation as well as a bypass to Interstate 10. Clearview Parkway is the major north-south connector from the Huey Long Bridge to Interstate 10. The project was critical for accommodating the increased traffic projected with completion of the Huey Long Bridge widening.
01/03-04/12	DOTD, State Project No. 736-99-1032, Interstate 69 – Section of Independent Utility No. 14 EIS, Junction I-20 near Haughton, LA to US 82 near El Dorado, AR, Bossier, Claiborne and Webster Parishes, LA, Columbia and Union Counties, AR. Senior transportation and environmental planner for Draft EIS responsible for assisting with the development of alternative corridors, and Environmental Impact Statement for a 75-mile segment of Interstate 69 Corridor's section of independent utility number 14 which spans between Haughton, LA and El Dorado, AR. During the development of the Final EIS he undertook the role of Project Manager, leading the NEPA documentation effort and moving the project toward issuance of the ROD.

16. Staff Experience



Name	Trenton Iglehart		
Firm	Forte & Tablada	Years of Relevant Experience with this Employer	2
Title	Senior CAD Technician	Years of Relevant Experience with Other Employer(s)	26

Degree(s)/Years/Specialization	N/A
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Active Registration Number/State/Expiration Date	N/A
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Year Registered	2015	Discipline	N/A
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Topographic Survey/Lidar Model; Utility Coordination/SUE Brief Description: Trenton will serve as Hydrographic Task Manager during this contract, and in that role he will manage all hydrographic field and office work performed on task orders. He will also lead the effort on estimating Hydrographic work for task orders and producing completed Hydrographic in LADOTD format, so that it can be seamlessly integrated into the Topographic files. Trenton will be responsible for all QA/QC efforts throughout the process of each Hydrographic task, leading to the final review by the Surveyor. He has 11 years of experience on on-system LADOTD Topographic Surveys, 11 years of experience on on-system LADOTD Right of Way Surveys and 26 years of Hydrographic Survey experience. He has performed CAD and management tasks on over 42 task orders under 13 separate Topographic IDIQ Contracts with LADOTD and 168 task orders under 9 separate Right of Way IDIQ Contracts with LADOTD.
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
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07/17-07/22	H.011670 I10 Loyola Interchange Improvements, Orleans Parish, LA (4400010586): Senior CAD Technician field data processing and drafting for topographic surveys. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. Also responsible for Right-of-Way Monument Mapping as part of a later Phase of work
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03/24 - 04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue - Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA: Hydrographic Task Manager Topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to the Conventional Topographic survey, Hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
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09/22 - 06/23	H.010468.5 I-20 Monkhouse to I-49 LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713): Senior CAD Technician processing data and drafting files for Static GPS Control, topographic surveys utilizing Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, existing drainage map development, and Mobile Laser Scanning for interstate approximately 10 miles of interstate rehabilitation.
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16. Staff Experience

09/22 – 06/23	H.004100 I-10 I-110 Phase 7 (Task Order No. 4) (4400014660): Senior CAD Technician for the topographic survey, HDS 3D Terrestrial Laser Scanning, 3D Mobile laser scanning and S.U.E. Services in support of QL B, C, and D subsurface utility designating for additional areas around and below the I-10 and I-110 flyover interchange.
01/23–04/22	H.12685.5 LA 385 Ryan St Intersection IMPRS, Calcasieu Parish, LA (4400017711): Senior CAD Technician/Lidar Technician for 3D Mobile laser scanning field data collection, processing, lidar feature extraction and drafting for topographic surveys.
01/23–04/22	H.014752.5 LA 3021 Dual Turn Lanes @ LA 39, Orleans Parish, LA (4400017711): Senior CAD Technician field data processing and drafting for topographic surveys. The project was located at the intersection of La 39 (N. Claiborne Ave.) and La 46 (Elysian Fields Ave.) and had linear distance of approximately 3600'.
08/21 – 04/22	H.012851 UP RR Corridor, Plaquemine Parish (4400010586): Senior CAD Technician field data processing, drafting for Topographic Surveys and Existing Drainage Map development.
01/23–04/22	H.009300.5 Hooper Road Widening, East Baton Rouge Parish, LA (4400017711): Senior CAD Technician field data processing, drafting for topographic surveys and existing drainage map development.
03/21 – 06/21	H.010885 LA 91 Bayou Plaquemine Brule Bridge Replacement, Acadia Parish (4400010586): Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. This project consisted of 0.25 miles of roadway/bridge topographic survey and 500' upstream & downstream bathymetric cross sections for Bridge Replacement.
04/20 – 11/20	H.000688 US 11 Norfolk Southern Railroad, St. Tammany Parish (4400010586): Senior CAD Technician/Lidar Technician for 3D Mobile laser scanning field data collection, processing, lidar feature extraction and drafting for Topographic Surveys. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad.
02/20 – 08/20	H.010652 LA 73 US 61 Airline–Essen Lane, East Baton Rouge Parish (4400010586): Senior CAD Technician/Lidar Technician for 3D Mobile laser scanning field data collection, processing, lidar feature extraction and drafting for Topographic Surveys. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish.
01/18 – 04/20	H.004100.5 I-10 LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA: Senior CAD Technician for the Topographic Surveys, HDS 3D Terrestrial Laser Scanning, 3D Mobile laser scanning and S.U.E. Services in support of QL B, C, and D subsurface utility designating. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish for approximately 13 miles of roadway.
04/19 – 08/19	H.005121 I-10 to La 1 Connector, West Baton Rouge Parish (4400010586): Senior CAD Technician field data processing and drafting for Topographic Surveys. This project was for the design of a new route connecting LA 1 to La 415, over the Intercoastal Waterway in West Baton Rouge Parish.
05/18 – 04/19	H.012591 I-10 Paris Rd Lake Pontchartrain in Orleans Parish (4400010586): Senior CAD Technician/Lidar Technician for 3D Mobile laser scanning field data collection, processing, lidar feature extraction and drafting for Topographic Surveys. This project was for the design of Interstate 10 improvements of 8 miles of Roadway in New Orleans East.
03/17 – 03/18	H.004987 – US 190 Collins Blvd., St. Tammany Parish (4400009386): Senior CAD Technician field data processing, drafting for Topographic Surveys and Existing Drainage Map. This project was for the design of capacity improvements on US 190 in Covington.

16. Staff Experience

	Name	Tait Karlson, PE, PTOE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	>1
	Title	Senior Traffic Engineer	Years of Relevant Experience with Other Employer(s)	20
Degree(s)/Years/Specialization		MS/2005/Transportation Engineering, University of Florida BS/2001/Civil Engineering, University of Florida		
Active Registration Number/State/Expiration Date		PE.0040438/LA/09/30/2026; PTOE 3091/USA/Exp. 07/20/2026		
Year Registered	2016	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Traffic Forecasting Capacity Analysis & Simulations Brief Description: Tait has over 20 years of experience in the field of traffic engineering. As a senior traffic engineer for Arcadis, his responsibilities include managing and delivering a range of traffic engineering tasks including intersection and corridor studies, safety studies, signal design, ITS design, complete streets, and access management studies. Project applications include feasibility studies and traffic and ITS design projects. He is proficient in relevant software including High Capacity Software (HCS), Synchro, Vissim, SIDRA, and MicroStation and is well versed in the policies and procedures in the Highway Capacity Manual, Highway Safety Manual, LADOTD manuals and EDSMs, and AASHTO Greenbook. Tait has also completed the LADOTD Traffic Engineering Process and Report Training.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
05/17-03/19	US 171 (MLK Blvd) Improvements, LADOTD, Lake Charles, LA. Senior Traffic Engineer. Developed a calibrated VISSIM model for existing conditions and the future no-build conditions along US 171 in Lake Charles, LA. Alternative improvements were recommended and modeled to determine the best solutions to improve the corridor. The project included data collection, development of growth rates, developing and calibrating an existing VISSIM model and evaluation and development of alternatives. no-build and the alternatives, calibrating the models, developing the final report, and performing QA/QC review.			
06/12-09/13	Abrams Street (Cooper Street to Collins Street), City of Arlington, TX. Traffic Engineer. Performed a traffic and concept study as a part of the Abram Street Pilot Project (Cooper Street to Collins Street). The report further stated that the future design of Abram Street will have a direct impact on the City's ability to fully implement the Downtown Master Plan's vision to revitalize the downtown area. Traffic study identifies and estimates the potential diversion of Abram Street traffic to other area roadways as travel lane capacity is removed from the corridor. The concept study portion of the project develops concept alternatives for all modes of transportation and pedestrians. Tait was responsible for traffic analysis; alternative analysis and recommendations; and preparation of the feasibility study report.			
09/11-05/12	MS 30 at Lafayette CR 215/217, MDOT, MS. Traffic Engineer. The project goal was to conduct a feasibility study and develop plans for proposed safety improvements at the intersection of MS 30 and CR 215/217. MDOT's goal was to implement improvements that would likely reduce crashes at this rural intersection while maintaining efficient traffic flow. The study concluded that construction of a roundabout would best address the critical needs of this intersection. He helped develop the concepts of the initial alternatives and then used the extensive procedure outlined in the Highway Safety Manual to perform the safety and benefit/cost analysis.			

16. Staff Experience

09/23–12/24	MS 15 From Audubon Drive to I-59, MDOT, Laurel, MS. Senior Traffic Engineer. This project analysed and designed roadway improvements to enable safe and efficient access for users of Highway 15 in Laurel, MS. The assignment included preparing traffic analysis and conceptual plans to convert the five-lane section to a four-lane boulevard with strategically placed U-turns. This is expected to more safely and efficiently accommodate the large amount of traffic and significantly reduce crashes. The design was presented to the city council and the public.
06/23–02/24	MS 161 from Walmart Entrance to 6th Street, MDOT, Clarksdale, MS. Senior Traffic Engineer. This project consisted of analysing multiple alternatives of typical sections for the corridor to determine if a road diet would be feasible and developing conceptual plans. The goal of the road diet was to provide pedestrians and bicyclists with safe means of travel throughout the corridor. The analysis included reviewing crashes, performing capacity analysis of the alternatives, and determining pedestrian and bicycle needs.
05/24–ongoing	Scenic Highway Feasibility Study and Signal Design, City of Baton Rouge, East Baton Rouge Parish, LA. Senior Traffic Engineer. Purpose of the project is to develop feasible alternatives that enhance safety and accessibility for non-motorized modes. Following the completion of the feasibility study, Arcadis is providing signal design for the preferred alternative, which includes signal upgrades at existing intersection and a new HAWK signal.
05/24–05/24	SR-67 from US 49 to Lickskillet Road, MDOT, Harrison County, MS. Senior Traffic Engineer. The roadway project along MS 67/ SR 67 from Lickskillet Road to US 49 implements Restricted Crossing U-Turns (RCUTS) and the superstreet concept to improve traffic flow, address anticipated growth in the area, and increase safety by minimizing conflict points. The project also includes two signalized turnarounds at local roads and lighting improvements.

16. Staff Experience

	Name	Gary Kassof		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	11
	Title	Senior Manager, Engineering	Years of Relevant Experience with Other Employer(s)	40
Degree(s)/Years/Specialization		MS/1974/Environmental Health Science BS/1969/Biology		
Active Registration Number/State/Expiration Date		NA		
Year Registered	NA	Discipline	Navigation Analysis and Simulations	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Navigation Analysis & Simulations Brief Description: Gary had over 40 years of experience processing USCG Bridge Permit applications, evaluating movable bridge operations and drawbridge regulations, preparing navigational reports, and administering requirements of NEPA while serving as the Bridge Program Manager for the First CG District in the northeast U.S. He was responsible for the issuance of over 750 drawbridge regulation, 1000 bridge permits and countless bridge construction reviews. He was the USCG official responsible for the preparation and issuance of NEPA documentation to meet USCG Bridge Program environmental mandates pursuant to NEPA. Since 2014 with AECOM he has worked as a bridge permit and navigation specialist preparing bridge permit applications, navigational reports and providing coordination with marine interests for various clients throughout the U.S. as well as assisting with environmental documentation preparation. Assisted in preparing applications for U.S. Army Corps of Engineers approvals.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
04/11-11/13	Port Authority of NY/NJ, Bayonne Bridge Raising, NY/NJ: Project Manager for USCG's NEPA lead agency mandate and bridge permitting responsibility for raising of the historic Bayonne Bridge. The project increased the bridge vertical clearance from 150 to 225 feet, thereby ensuring access for post- Panamax vessels into Port of New York and allowing the Port of NY/ NJ to maintain its commercial competitiveness. Working under a federally imposed time mandate, he successfully directed a controversial environmental review process, coordinated with federal, state, and local agencies culminating in an approved EA/ FONSI and issuance of USCG Bridge permit. Coordinated closely with the U.S. Army Corps of Engineers regarding impact on federally authorized navigation channel.			
09/15-ongoing	CTDOT, Devon Railroad Bridge Replacement, CT, NJ: Provided permitting environmental and constructability presentation for RFP and client interview contributing to project award. Prepared navigational study assisted with bridge permit application and impact assessment for this movable bridge structure replacement along heavily transited commuter/regional rail corridor. Currently actively involved with permitting team. Coordinated with U.S. Army Corps of Engineers regarding its federal regulatory responsibilities.			

16. Staff Experience

01/05-12/12	Amtrak, Northeast Corridor Historic RR Movable Bridge Replacements, Thames and Niantic Rivers, CT: Coast Guard program manager for bridge permitting and navigational coordination for replacement of two Amtrak Northeast Corridor movable bridges (Thames River and Niantic River). Oversaw significant navigational and environmental coordination between Amtrak, commercial and recreational boating interests and the U.S. Navy. Developed in-water construction procedures to maintain construction schedule while meeting needs of navigation.
08/16-ongoing	Boston DPW, Northern Avenue Bridge Replacement, Boston, MA: Provided Bridge Permitting and navigational expertise for RFP which resulted in selection of team for A&E services for replacement of a historic and iconic bridge in Downtown Boston. Active member of ongoing bridge permit and environmental preparation. As part of permit application team, prepared Navigation Impact Report for USCG Bridge Permit Application and provided bridge permit processing expertise. As part of AECOM Team coordinated closely with the U.S. Army Corps of Engineers which served as lead federal agency for federal cultural resource mandates.
10/16-05/19	MDSHA, Cobb Island Bridge Replacement, Newburg/Cobb Island, MD: Prepared a navigational report for marine activity MDSHA, Cobb Island Bridge Replacement, Newburg/Cobb Island, MD. Prepared a navigational report for marine activity along Neale Sound as navigational expert for AECOM Team for replacement of Cobb Island Bridge. The results of the navigational report were included in the MD SHA's bridge permit application to the CG in support of proposed bridge design and navigational clearances. Coordinated with CG Portsmouth, VA bridge office. Successful USCG approval of bridge permit, required clearance gauges and navigational lighting.
06/17-06/20	Triborough Bridge and Tunnel Authority, Bronx Whitestone Bridge Fender, Bronx/Queens, NY: Provided CG Bridge permitting requirements and navigational protection concerns for fender protection design for major NYC highway bridge across active commercial and recreational waterway leading to issuance of USCG Bridge permit. Continued to coordinate with CG and other public officials and marine interests to assist in design and approval of bridge protective systems. Assisted in permit applications to the Corps of Engineers
01/08-12/10	NYCEDC, Arthur Kill RR Bridge, Conversion to Remote Drawbridge Operation, NY/NJ: Oversaw bridge owner conversion from onsite operation of vertical lift RR Bridge to a remote location. Processed federal drawbridge operation regulation modification. Coordinated with regional navigational interests to ensure safety of navigation was assured while meeting operational efficiencies of bridge owner. As the major marine access into the Port of NY/NJ contentious/controversial issues were addressed and all parties were satisfied with bridge operation.
07/07-09/08	CTDOT, Pearl Harbor Memorial Bridge Replacement, New Haven: Coast Guard program manager for bridge permitting and construction coordination for replacement of "Q" Bridge which carries I-95 over New Haven Harbor at confluence of Quinnipiac and Mill Rivers. Coordinated major construction effort with marine community in a very active commercial waterway. Helped accommodate needs of both vehicular and marine traffic transiting over and under the adjacent heavily trafficked Tomlinson Avenue drawbridge. Worked with CONNDOT and contractor during construction to minimize delays due to passing marine activity.

16. Staff Experience



Name	Joe Klein, PE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	49
Title	Vice President, Civil	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization	BS/1975/Civil Engineering MS/1976/Structures		
Active Registration Number/State/Expiration Date	058741/NY/08-31-2027		
Year Registered	1981	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	Contract Role: H&H Analysis and Scour Brief Description: Determination of design criteria necessary to meet AASHTO requirements for vessel collision impact.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
03/23-ongoing	Brent Spence Companion Bridge, Cincinnati OH: Project engineer for vessel collision risk analysis of proposed bridge crossing the Ohio River from Kentucky to Ohio. Analyzed marine traffic data and determined vessel collision loading criteria required to satisfy AASHTO requirements. The analysis considered that marine traffic is dominated by barge flotillas of various sizes propelled by tugboats, and that transit speeds of downstream traffic exceed upstream speeds due to river flow.		
03/19-03/22	Harry W. Nice Bridge Replacement, Newburg, MD: Project engineer for development and final design of fendering system to protect piers adjacent to navigation channel from severe errant vessel impact, and for determination of vessel collision impact load criteria for remaining in-water piers.		
02/20 - 04/21	Northern Ave. Bridge Replacement, Ft. Point Channel, Boston MA: Project Engineer for development and design of vessel collision criteria and fendering protection for proposed replacement bridge.		
12/13-08/18	MTA Bridge & Tunnels Authority (TBTA), Bronx-Whitestone and Throgs Neck Bridges Fendering for Queens & Bronx Towers and Anchorages, NY: Project Engineer for development and preliminary design of fender systems to protect the bridges' towers and anchorages from ship and barge collisions. Work included reviewing previous risk analysis reports to establish consistent design criteria and evaluate previously proposed protections. Developed models to assess performance and adequacy of proposed systems. Developed new protection alternatives.		
10/10-06/21	New York City Department of Transportation (NYCDOT), Staten Island Ferry Terminal Fender Racks, Manhattan & Staten Island, NY: Lead marine engineer for analysis and preliminary design of specialized fender systems for high frequency berthing of commuter ferries at Whitehall and St. George terminals. Efforts included: development of design criteria for the various zones of the various slips by processing electronic data obtained from the vessels' GPS navigation systems and applying probabilistic methods; evaluation and analysis of the existing racks to determine their capacity, adequacy and remaining life; development and analysis of alternative replacement fendering options.		

16. Staff Experience

05/07-12/07	Louisiana Department of Transportation and Development (LADOTD), Replacement of Florida Avenue Bridge over the Inner Harbor Navigation Canal, New Orleans, LA: Investigated existing fendering systems consisting of sheetpile cell dolphins and pipe piles to check adequacy for protection of proposed replacement bridge. Developed method of analysis for sheetpile cell dolphins considering various failure modes and energy absorbed by the associated large deformations. Designed supplemental fendering system to protect vulnerable exposures of proposed bridge piers.
09/19-01/25	Waterfront Code Development, NYCDOB, NY: Project Engineer for composing code language for structural sections of the proposed waterfront building code, including providing guidance and recommendations for technical references to be cited by the code to cover many waterfront typologies. Work included interfacing with other sections of the code, providing code guidance for determination of various waterfront-specific loadings and determination of waterfront-specific load combinations to consider.

16. Staff Experience

	Name	Shreekant Konnur, PE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	9
	Title	Traffic Engineer	Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization		MS, Civil Engineering, North Carolina State University, 2018 MS, Transportation Engineering, Visvesvaraya Technological University, 2014 BS, Civil Engineering, Basaveshwar Engineering College, 2012		
Active Registration Number/State/Expiration Date		PE. 059835/NC/12/31/2025		
Year Registered	2025	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Regional Travel Demand Planning Brief Description: Shreekant serves as a Traffic Engineer in Arcadis Raleigh, NC office. He is experienced in travel demand modeling, transportation planning, and traffic engineering. His project experience includes simulation, traffic operations, alternative interchange and intersection analysis, traffic travel demand model development, traffic forecasting, transportation data collection and GIS. He is experienced with several different software packages including TransCAD, TransModeler, ArcGIS, Synchro, Vissim, HCS, SIDRA, Microsoft Visio, Inkscape, PowerBI, Lingo, R, Microstation.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
11/20 – ongoing	I-10 CMAR – LaDOTD. Modeling/Traffic Engineer. Modeled and analyzed I-10 CMAR network for future year scenarios for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.			
05/18 - 09/22	North Carolina Statewide Travel Demand Model Development, North Carolina Department of Transportation, Statewide, NC. Modeling/ Traffic Engineer. Assisted for development of Existing and Future highway networks for the North Carolina Statewide Transportation Model (NCSTM). Assisted in Adding planned TIP projects statewide and LRTP projects from 17 NC MPOs into the statewide model.			
01/21-07/21	Piedmont Triad Regional Travel Demand Model - Piedmont Triad, NC. Assisted for model data maintenance and technical support for the Piedmont Triad Regional Travel Demand Model.			
07/18-12/18	Triangle Regional Travel Demand Model, NCDOT, Triangle Area, NC. Modeling/ Traffic Engineer. Assisted for model data maintenance, QC, and updated geometry and volume data inputs in Triangle Regional Travel Demand Model.			

16. Staff Experience



Name	Fernando Lagunes		
Firm	Locus, LLC	Years of Relevant Experience with this Employer	13
Title	Hydrodynamic Engineer	Years of Relevant Experience with Other Employer(s)	43

Degree(s)/Years/Specialization	MS/1983/Management Information Systems, BS/1978/Electrical-Mechanical Engineering
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Active Registration Number/State/Expiration Date	NA
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Year Registered	NA	Discipline	NA
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Navigation Analysis & Simulations Brief Description: Hydrodynamic Engineer developing maritime simulation databases and ship models for research and training purposes in Kongsberg Maritime Simulation Systems. Provides engineering support for all hardware associated with the Kongsberg Maritime Simulation systems.
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
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01/10-05/10	"Baton Rouge Loop" Bridge Project, Baton Rouge, LA: 2010 Simulation database modeling
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01/13-05/13	Quebec City Pilots, Valero Ultramar Dock, Quebec, Canada: 2013 Simulation database modeling
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01/13-10/14	Cameron LNG Marine Berth and Navigation, Lake Charles, LA: 2014 Simulation database modeling/research
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11/14-05/16	Houston Bayport Navigation Channel Approach, Port of Houston, TX: 2015 Simulation database modeling and creation of both 1/25th scale physical port model and virtual models
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10/15-10/16	Houston Barbours Cut Container Terminal, Houston, TX: 2016 Simulation database modeling
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05/16-11/16	Venture Global, Calcasieu River, Lake Charles, LA: US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations and 2016 Database Modeling
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10/16-11/17	Process "CFR 216" Simulations for the Port of Houston, TX: 2017 Simulation database modeling in partnership with US Army Corps of Engineers, ERDC
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16. Staff Experience

05/18-05/19	Port of Freeport and Freeport LNG, Brazos, TX: 2018 Simulation database modeling
06/18-11/18	Commonwealth LNG, Lake Charles, LA: US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations and 2018 Simulation database modeling
02/18-06/18	CH-IV LNG, St. James, LA: US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability Simulations and 2018 Simulation database modeling
10/18-08/19	Venture Global LNG terminals "Plaq LNG and Delta LNG," Plaquemine, LA: US Dept. of Energy "FERC Permitting" and US Coast Guard Waterway Suitability and 2019 Simulation database modeling
01/15-04/15	Brownsville LNG facility in the Port of Brownsville, TX: 2015 Simulation database modeling for feasibility testing

16. Staff Experience

	Name	Sara Lajoie, PE		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	16
	Title	Senior Hydraulic Engineer	Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date		0402051515/VA/05-31-2025 Additional Active License: PE (KY, MD)		
Year Registered	2013	Discipline	H&H Analysis and Scour Analysis	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: H&H Analysis and Scour Analysis Brief Description: Sara has over nineteen years of diverse experience that spans numerous aspects of river mechanics, scour analysis, roadway drainage, erosion and sediment control, and stormwater management. She is a certified Professional Engineer in Virginia, Maryland and Kentucky. Sara has experience in a variety of projects related to hydrologic and hydraulic analyses and design. She has worked extensively with culvert and bridge crossings in various locations from local rural streams to major coastal highways. She also has extensive experience with streams studied in detail by the Federal Emergency Management Agency (FEMA). She performs scour analyses for bridge crossings using HEC-18 methodology along with scour countermeasure designs using HEC-23 methodology.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
01/23-ongoing	Brent Spence Bridge – Cincinnati, Ohio. Covington, KY: H&HA and Scour Team Lead for this design/build bridge construction project. The proposed bridge spans the Ohio River between Kentucky and Ohio in a FEMA Floodway. The bridge will be built just downstream of the existing bridge. To evaluate the effect of the new configuration, meet regulatory requirements and provide scour parameters, a one-dimensional HEC-RAS hydraulic model and a two-dimensional SRH-2D/SMS hydraulic model was created. The scour analysis was performed with FHWA HEC-18 methodology, and a CFD model simulation is underway to refine the scour conditions for the complex pier interactions.			
04/19-01/22	Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project over the Potomac River – MD/VA: River mechanics and scour analysis team leader for this design/build bridge replacement project. The proposed bridge spans the Potomac River between Maryland and Virginia at a location which is dominated by coastal flooding. To demonstrate its effect on the river, a Coastal Hydraulic model was developed using ADCIRC software for the existing and proposed conditions. To perform the scour analysis, a 2D HEC RAS riverine model was developed with applicable boundary conditions from the ADCIRC coastal model simulations in addition to contributing riverine flows. A Scour analysis was then performed using the methodology presented by FHWA HEC-18 including parameters from the hydraulic model and geotechnical data from the site. Scour countermeasure recommendations for the abutments were also provided.			

16. Staff Experience

07/17-03/19	Frederick Douglass Memorial Bridge over the Anacostia River, South Capitol Street Corridor Phase I – Washington, D.C.: River mechanics and scour analysis team lead on this design/build signature bridge replacement project over the Anacostia River. Performed the hydrologic and hydraulic analysis for the permanent conditions, as well as the temporary trestle bridge for use during construction. Also performed scour computations to estimate alluvial scour depths in support of the abutment and pier foundation design.
04/17-11/18	Rehabilitation of Arlington Memorial Bridge over the Potomac River, Washington D.C.: River mechanics and scour analysis team leader to evaluate the conditions at the existing Arlington Memorial Bridge in support of the rehabilitation and restoration efforts of this iconic structure. Two-dimensional hydraulic modeling software was developed, then alluvial and rock scour depths were estimated.
04/13-11/16	Route 29 Business (Main Street) over Staunton River & NS Railway Bridge Replacement, Campbell County, VA: Hydraulic engineer responsible for performing the hydrologic and hydraulic analysis for this bridge replacement project within a FEMA floodplain. Temporary causeways were included in the hydraulic model, and a scour analysis was performed using standard HEC-18 methodology. Scour countermeasures and erosion prevention measures were recommended.
12/21-04/22	I-81 over Tinker Creek, Botetourt County, (VDOT) VA: Hydrologic and Hydraulic Analysis (H&HA) engineer responsible for performing the hydrologic and hydraulic analysis of the existing I-81 crossing over Tinker Creek. The project is located in a FEMA regulatory floodplain with a regulatory floodway and established base flood elevations. The Effective FEMA model was provided by FEMA in HEC-2 format, which was then converted to HEC-RAS to develop the hydraulic model.
06/18-09/22	RIDOT Bridge Inspection Program, Assignment #31, 2017 Scour Management Contract POA Updates and Associated Tasks, Rhode Island Department of Transportation, RI: Provided final National Bridge Inspection Standards (NBIS) structure inventory and appraisal (SI&A) Item 113 rating recommendations based on the scour recalculations for the FHWA HEC-18 equations. To determine scour versus embedment depth of bridge foundations, tasks included performing scour calculations, evaluating channel and underwater survey observations, and developing a system to compare each to known foundation data. Scour countermeasures in place were reviewed for stability. Based on the findings, the stability of the bridge foundations was assessed, and a scour rating was recommended for various bridges throughout the state of Rhode Island.

16. Staff Experience



Name	Jeffery Leuenberger, AICP		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	<1
Title	Transportation Planning Specialist IV	Years of Relevant Experience with Other Employer(s)	20
Degree(s)/Years/Specialization	MURP)/2008/Urban Planning; BURP/2005/Urban Planning		
Active Registration Number/State/Expiration Date	Certified Planner, American Institute of Certified Planners/American Planning Association – Certification Number #023531		
Year Registered	2009	Discipline	Planner
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Environmental Inventory / Data Management / GIS Brief Description: Jeffery is a transportation planning specialist reporting to the Baton Rouge office. His experience includes master planning for multi-use paths, implementation of complete street policies, and managing transportation enhancement projects from environmental review through design and letting. He also has experience in GIS enterprise deployment for emergency disaster response and developing best management practice handbooks for stormwater management.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).		
08/24 – Ongoing Record of Decision expected 2025-2026	LADOTD State Project No. H.004273.5, I-49 Lafayette Connector Project, Lafayette, LA. The team is currently completing the Draft Supplemental EIS for the I-49 corridor in Lafayette. Jeffery supports the environmental task, coordinates document updates, and leads all GIS services for the project.		
01/14-03/16	Lafourche Parish Government, Bayou Lafourche Multi-Use Path Master Plan and Feasibility Study, Thibodaux, LA: Project manager who oversaw and managed the delivery of services for the Lafourche Parish Government’s Multi-Use Path Plan and Feasibility Study for Bayou Lafourche. The plan included proposed creation and implementation of a multi-use path from Thibodaux, Louisiana to Fourchon Beach including branding, wayfinding, health and economic impacts, and implementation actions for funding and construction.		
09/22-06/24	City of Baton Rouge - Parish of East Baton Rouge Government, Complete Street Ordinance, Baton Rouge, LA: Project manager who oversaw the Baton Rouge Complete Streets Citizens’ Advisory Committee (CSCAC), which implemented the Baton Rouge Complete Street Policy, adopted by the City-Parish Council in 2014. While an ordinance created the Advisory Committee, the CSCAC drafted and proposed a new ordinance that codified the policy. This was adopted in June 2024		
04/19-12/20	Lafourche Parish Government, Bayou Lafourche Scenic Overlook, Thibodaux, LA: Senior planner who revised a stalled Transportation Enhancement Program Project for the Bayou Overlook project in Raceland, Louisiana, for Lafourche Parish Government. Led the project through in-house environmental review, design, engineering, and final project letting.		

16. Staff Experience

01/18-11/20	Lafourche Parish Government, Government Trailhead, Thibodaux, LA: Project manager who oversaw and managed the delivery of services for Lafourche Parish's Transportation Enhancement Program project for the Lafourche Parish Government Trailhead Project through in-house environmental review, design, and engineering. [1/2018 - 11/2020]
01/15-12/20	Lafourche Parish Government, Force Drainage Mapping, Thibodaux, LA: Senior project manager who used the Lafourche Parish Master Drainage Plan to map the levee and pumping stations and create an asset-based mapping system. This effort assisted in developing a base map of the Lafourche Parish force drainage system for future modeling, monitoring pump station maintenance, and tracking operations during hurricanes and other natural disasters.
06/2014-09/2021	Lafourche Parish Government, Hurricane Response Dashboard Site Incident Operations Dashboard, Thibodaux, LA: Senior planner who deployed a variety of ESRI applications for all tropical storms and hurricanes, including a story map and land page for emergency public outreach, incident reporting application for both the public and inhouse, deployed hurricane evacuation application, in-house hurricane response control center, and various other report tools and monitoring applications.
06/2014 - 09/2021	Lafourche Parish Government, GIS Enterprise Deployment, Thibodaux, LA: Senior project manager who created Lafourche Parish's GIS Enterprise System addressing application setup and deployment, centerline cleanup and attributing, forced drainage levee system mapping, cemetery documentation, emergency disaster response, Post-Disaster Damage Surveys Setup, and Deployment.
01/2013 - 08/2021	City of Baton Rouge - Parish of East Baton Rouge Government, Stormwater Best Management Practice Handbook, Baton Rouge, LA: Planner who coordinated a Louisiana Department of Environmental Quality grant, "Mitigating Nonpoint Source Pollution in Urban Watersheds with Spatial Modeling, Best Management Practices for Wetlands and Community Outreach," including a Best Management Practice handbook and public outreach
01/07 - 12/07	Lafourche Parish Government, Coastal Wetlands Planning and Protection and Restoration Act Project mapping, Thibodaux, LA: Senior planner who worked with the Lafourche Parish Coastal Zone to map four proposed marsh creation projects for a final grant submission. Resulted in four marsh restoration dredging and construction projects

16. Staff Experience

	Name	Jonathan "Daniel" Lowrey		
	Firm	Arcadis	Years of Relevant Experience with this Employer	<1
	Title	Senior Environmental Planner	Years of Relevant Experience with Other Employer(s)	15
Degree(s)/Years/Specialization		MA/2014/Anthropology; BS/2010/Social Science		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Alternative Corridor Evaluation/Screening Brief Description: Daniel is an experienced environmental consultant specializing in NEPA, GEPA, Section 106 compliance, and related regulations. As an Environmental Planner, he leads multidisciplinary teams to produce environmental documents, manage public involvement, and coordinate with stakeholders and agencies for transportation projects. He also develops scopes, work plans, permitting strategies, schedules, and budgets for complex projects delivered through various models, including Design-Bid-Build and Design-Build. Additionally, Daniel is a Cultural Resources consultant and professional Archaeologist.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
05/19 - 04/25	I-285 Top End Express Lanes Project. Georgia Department of Transportation, Cobb, Fulton, and DeKalb Counties, GA. Environmental Discipline Lead. Managed both the technical and administrative aspects of the Environmental team. Daniel led the Environmental Team through the scoping process, public involvement process, the development of the Draft EIS, the Final EIS, and the 404 permit application. For each of these, Daniel produced or managed the production of various and numerous ancillary technical studies and documents. He advised the broader project Team and the client on strategies to achieve state and federal environmental concurrence and permitting following the One Federal Decision process, engaging with the client, project stakeholders, FHWA, and other regulatory agencies to successfully meet expectations and schedule. Daniel also instituted and executed an Environmental quality control program that helped to maintain deliverable quality while achieving greatly accelerated production and review timeframes. Daniel also developed, managed, and handed off the Project's Public Involvement and Communications Team. Since joining Jacobs in 2019, Daniel has planned, executed, and managed numerous public outreach programs and meeting series ("Community Conversations", Public Involvement Open House, and Public Hearing Open House meetings) as well as several outreach advertising campaigns and opinion surveys.			
05/18 - 05/19	SR 236 at SR 42 Intersection Improvements. Georgia Department of Transportation, Fulton County, GA. Deputy Project Manager. GEPA Lead, and Lead Archaeologist for a state-funded intersection improvements project in Fulton County, Georgia. Comments received at public meetings caused the Project Manager to decide, at a late stage in the plan development process, to make substantial changes to the project design. Daniel strategized with the client and with his counterparts at the Georgia Department of Transportation and provided a work plan which helped to maintain the project schedule.			

16. Staff Experience

04/17 - 03/19	Madras Connector, Georgia Department of Transportation, Coweta County, GA. Deputy Project Manager. NEPA Lead, and Lead Archaeologist for a federally-funded new-location bypass project in Coweta County, Georgia. Due to a late discovery of a state-protected environmental resource on the project, Daniel revised the project environmental work plan, coordinated with state agencies, and provided scope for additional services.
04/17 - 05/19	Hereford Farm Road Widening and Improvements, Georgia Department of Transportation, Columbia County, GA. Environmental Discipline Lead and Lead Archaeologist. Federally-funded road widening and improvement project in Columbia County, Georgia. As NEPA Lead, Daniel assisted in preparing for and executing Public Involvement events and drafted responses to public comments. In doing so, Daniel coordinated with project stakeholders including GDOT's Office of Program Delivery, GDOT's Office of Environmental Services, and Columbia County's Department of Engineering Services. Daniel also worked with other environmental experts to deliver survey reports and environmental documents.

16. Staff Experience



Name	Steve Matty, PE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	38
Title	Associate Vice President, Project Manager	Years of Relevant Experience with Other Employer(s)	0

Degree(s)/Years/Specialization	BS/1985/Civil Engineering MS/1987/Structural Engineering		
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Active Registration Number/State/ Expiration Date	PE18598/MD/02/2026 Additional active licenses; DE, DC, NC, OH, SC, VA		
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Year Registered	1991	Discipline	Civil Engineering
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: QA/QC Brief Description: Steve is a Project Manager/Senior Structural Engineer with 38 years of experience working on a wide variety of challenging projects requiring innovative solutions to meet the goals of the project. He is responsible for the technical direction, overall production and quality control on bridge and other transportation projects, which include conceptual layouts and preliminary design of bridge structures, final design, detailed cost estimates and construction schedules for bridge projects. His experience includes analysis, rehabilitation and design of a wide variety of bridges including steel, reinforced concrete, prestressed concrete, segmental concrete bridges, retaining walls and highway noise barriers. He has provided technical support and guidance on numerous projects in more than a dozen states and overseas. His technical experience has included resolving issues that arise during construction that require spending time in the field and having a good understanding of construction practices.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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11/24-Present	Brent Spence Bridge Project, Cincinnati, OH: Lead Bridge Engineer for the design of Ohio Bridge 120. Bridge is a double-deck structure consisting of a 1,222-ft, 11-span continuous span bifurcated steel superstructure for the upper deck and a 519-ft five-span prestressed concrete superstructure for the lower deck. Rigid frame piers support the lower deck structure, and the upper deck structure is supported on the vertical extension of the exterior columns of the rigid frame piers. The upper deck superstructure is supported by triple-steel straddle girders that span between the exterior columns. Two hammerhead piers are also provided where the upper deck merges away from the lower deck. Overall pier heights range from 80 to 126 feet. All piers are supported on 18-inch diameter cast-in-place concrete piles.		
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12/22-Present	Maryland State Highway Administration Highway Structures Engineering Services for State and Local Governments, Statewide, BCS 2020-06E: Project Manager for the on-call services for highway structures design services for the Maryland State Highway Administration, Office of Structures. To date we have over 40 assignments. Some of the bridge assignments include final plan development for US 40 over Conococheague Creek concrete arch bridge; substructure and underwater repairs to MD 223 over Piscataway Creek; Final design of the Putty Hill Road Bridge over I-695; Preliminary engineering/NEPA studies for six (6) different bridge projects; AMMR for MD 136 over Falling Branch; on-site engineering services; proof load testing MD 299 over Jacobs Creek; shop drawing reviews of moveable bridge repairs; and two bridge/culvert rehabilitation projects.		
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16. Staff Experience

01/17-Present	US 40 over Conococheague Creek, Maryland State Highway Administration, Hagerstown, MD: Project Manager for the analysis, condition inspection and concrete testing of the existing three span open spandrel concrete arch for the purpose of determining the extent or member replacement and repairs. Project Manager for the final design of the rehabilitation of this bridge. The bridge superstructure consists of three reinforced concrete arch ribs supporting spandrel columns and a reinforced concrete deck system. A 3D space frame model is being developed using LUSAS to analyze the entire structure. Concrete testing of the floor beams, columns, arch rib and piers. Final design includes replacement of the spandrel columns, floor beams and deck, repairs to the piers and
2/18-12/23	Eastern Federal Lands Highway Division, Rehabilitation of the Arlington Memorial Bridge Design-Build Project, Washington D.C.: Lead Bridge Engineer for the final design of the deck replacement and pier and abutment frame replacement of the historic Arlington Memorial Bridge. Project Manager for engineering support during construction. The bridge is a multi-span closed spandrel concrete arch. The deck replacement consists of HPC precast concrete deck panels, stainless steel reinforcement, stainless steel strands and ultra-high-performance concrete (UHPC) closure pours. The pier and abutment frames consist of cast-in-place columns and caps with transverse precast beams. Work included repairs to the existing concrete arch rib and crosswalls, seismic analysis of the entire bridge, and analysis of the existing arch and crosswalls with the new deck panels in accordance with AASHTO LRFD Bridge Design Specifications.
04/08-05/19	MD 331 over Choptank River (Dover Bridge), Maryland State Highway Administration, Talbot and Caroline Counties: Maryland Project Manager for the design and engineering support during construction for the replacement of the existing Dover Bridge with a 2,015 foot long fixed high level bridge. The bridge superstructure consists of a 6- span continuous steel haunched girder portion over the river (200-210-230-230-210-200) and 7-105 ft. prestressed concrete girder spans, over the wetlands. The flared piers supporting the steel girder spans are supported by pile caps with 48-inch diameter steel pipe piles. The pile bents supporting the concrete spans include either 36-inch or 48-inch diameter steel pipe piles.

16. Staff Experience

	Name	James H. May, PhD, PG		
	Firm	Burns Cooley Dennis, Inc.	Years of Relevant Experience with this Employer	21
	Title	Engineering Geologist	Years of Relevant Experience with Other Employer(s)	34
Degree(s)/Years/Specialization		PhD/1988/Engineering Geology; MS/1980/Geology; BS/1971/Geology		
Active Registration Number /State/Expiration Date		PG: 0038/MS/12-31-2025; 0677/LA/5-24-2026		
Year Registered	MS:1988, LA:2015	Discipline	Geologist	
Contract Role(s)/Brief Description of Responsibilities		Contract Role: Geological Investigation Brief Description: Dr. May has 55 years of experience in the geological profession. His advanced education includes a Doctor's degree from Texas A & M University. He served as National President for the Association of Environmental and Engineering Geologists. He started his geological career with the Mississippi Geological Survey (MGS) where he served for 6 years. While at MGS he mapped the geology of large areas of the State. He conducted a subsurface investigation to site a State Lime Quarry in the Vicksburg Formation which runs from Vicksburg, MS, across the State into Alabama. The Vicksburg Formation forms part of the foundation for some of the I-20 bridge piers at Vicksburg. He spent one and a half years with the Wilmington District USACE conducting foundation geologic assessments for critical facilities such as dams and reservoirs. He came back to Mississippi and worked at the USACE Waterways Experiment Station (WES) where his work included geologic investigations to site critical facilities such as pump and treat systems and strategic underground facilities. After retiring from WES, he was hired as a professor at Mississippi State University (MSU) where he taught for eight years. While at MSU his courses included Engineering Geology, Environmental Geology, Hydrogeology, Clay Mineralogy, and Siting Critical Facilities. Dr. May lives in Vicksburg and has considerable academic and field experience in geotechnical investigations involving the evaluation of embankment stability and landslide mitigation in general and the slide at I-20 bridge in particular.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
11/01-04/02	I-20 Bridge Slide (with BCD), Vicksburg, MS. Piers moving on the I-20 Bridge at Vicksburg initiated geotechnical investigations to define the cause. The Vicksburg Formation is part of the foundation for some of the piers. Geological mapping was part of the study and included a contour map on the top of the Glendon Limestone a key marker bed in the area. This map indicated an abrupt linear change in elevation and confirmed subsurface structural movement at the site. The details of this movement require clarification.			

16. Staff Experience

08/24-10/24	Anduril Incinerator Pad (with BCD), McHenry, MS. The Anduril site is being used for the manufacture and testing of rocket engines. Of particular interest was the geology underlying the proposed incinerator pad. The geologic information needed was consistent with that required for siting critical facilities. Primarily the ground at the site has to remain stable. Any geologic or hydrologic conditions that could cause instability such as faults, slides, subsidence, erosion, flooding and groundwater had to be identified. Literature reviews, borings and lab tests were conducted to obtain needed data to show the site is stable.
06/10-10/10	Yazoo City Slump (with BCD), Yazoo City, MS. A large slump area was moving and causing damages to homes and property. Literature review and field work revealed that the slumps were classic rotational slumps where a scarp was formed at the top of the slump and a bulge formed at the toe. The slumps were in the Yazoo Formation which contains highly expansive clay. The practice by the city or landowner was to remove the material pushed up by the toe and fill in the scarp area of the slump. This practice was keeping the slumps continuously moving and causing damage. Guidance was provided on how to lower pore pressure in the slump and properly distribute the weight along the slump to stop the movement.
04/11-06/11	Smith County Reservoir (with BCD), Smith County, MS. A geotechnical investigation was conducted to determine if a site which was underlain by limestones and marls of the Vicksburg Formation was suitable for the construction a large reservoir. The Vicksburg Formation contains voids and expansive clay. Extensive field and lab testing in the area showed severe weathering of the limestones had created areas of high permeability and expansive clay unsuitable for the construction of a reservoir.
02/05-01/06	Signal Hill Landslide – Highway 61 (with BCD), Vicksburg, MS. A geotechnical investigation was conducted south of Vicksburg, Mississippi. A classic slump had shut down traffic in one lane of the highway. Borings and field studies indicated that the slump had occurred in the upper part of the Vicksburg Formation mostly in the Bucatunna Clay which is expansive. Soil anchors were installed to pin the slump in place along with contouring and drainage to keep pore pressure down. The remediation was successful as the slump has not continued to move.

16. Staff Experience

	Name	Rudolph (Rudy) McLellan, PE		
	Firm	Huval & Associates, Inc.	Years of Relevant Experience with this Employer	6
	Title	Senior Design Structural Engineer	Years of Relevant Experience with Other Employer(s)	41
Degree(s)/Years/Specialization		MS/1977/Engineering in Structures BS/1976/Civil Engineering		
Active Registration Number/State/Expiration Date		19994/LA/03/31/2026 Additional active licenses; MS, FL		
Year Registered	1981	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Bridge Design Brief Description: Rudy has over 47 years of experience in every facet of structural design in over 14 states including the design of complex bridges. He has been a lead bridge design engineer for the complex bridge design of two (2) constructed cable stayed bridge projects and performed the preliminary design of the constructed Audubon Cable Stayed Bridge in St. Francisville, Louisiana.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
09/18-ongoing	Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines Parish, LA, Project No. H.004791: The bridge includes the fixed high level continuous steel plate girders having spans of 160' – 175' – 160' over the Intercoastal Waterway (ICWW). The project included a vessel collision design for the waterway main piers. He performed final Bridge Design calculations for the ICWW Main Piers and provided QA/QC for all bridge designs.			
01/87-ongoing	Old Mississippi River Railroad Bridge and Tunnel (Old U.S. 80), Vicksburg, Mississippi and Delta, LA: He performed Complex Bridge Analysis and Repair Design including bridge safety and repair inspection, bridge load rating and structure maintenance and repair plans for the existing combination highway and railway through truss. He has analyzed the entire steel truss and approach structures for the current on-going large foundation movements using modern 3-D computer software. He has developed State of the Art repair methods.			
04/96-07/99	S.P. 239-01-0077 LA Highway 319 Intracoastal Waterway Bridge Louisa, St. Mary Parish, LA: He performed preliminary & final Complex Bridge Design calculations for all superstructure and substructure members of the constructed 276 foot double leaf fixed trunnion bascule movable bridge. The Louisa Bridge is the state's longest steel girder double leaf bascule bridge, is one of the longest span of its type constructed in the nation and is the recipient of the National Steel Bridge Alliance's 2007 Prize Bridge Award Winner in the movable span category.			
04/09-01/14	S.P. 840-43-0001 US 71 & US 165 Fort Buhlow Bridge & Approaches Over The Red River, Rapides Parish, LA: He performed final Complex Bridge Design calculations for all superstructure and substructure members of the constructed twin fixed high level three span continuous steel plate girders having spans 300'-400'-300' and the Main River Piers which are designed for marine vessel (Barge) collision.			
01/06-03/06	Project No. ER/BR-0003-01(098) US 90 Across St. Louis Bay, Hancock and Harrison Counties, MS: He performed the Complex Bridge Design for all bridge design build documents and design build services for the superstructure and substructure members of the constructed precast post-tensioned concrete segmental variable depth modified bulb tee channel spans 200'-250'-200' and piers supported with deep pile waterline footings.			

16. Staff Experience

09/95–07/01	Project No. BRDP-9205-00(003) Mississippi River Bridge US 82 Greenville, MS: He performed the Complex Bridge Design, quality review of plans, constructability, cost estimates and final calculations for the post-tensioned concrete segmental alternate and steel composite alternate of the 1,378 foot cable stayed main navigational span. He performed the Complex Bridge Design for most of the constructed steel composite main span, river piers supported on dredge caisson type foundations & the anchor span piers with drilled shaft footings.
03/85–01/94	I 49 / LA 3132 and I 49 / I 20 Interchanges, Shreveport, LA, S.P. 455-08-23 & 455-08-20: He performed the Complex Bridge Design, quality review of plans, constructability, cost estimates & final calculations for most of the constructed members consisting of curved continuous steel trapezoidal box girders with spans to 250', steel box framed in cap beams, the post-tensioned concrete delta shaped central (tree) pier and architecturally flared piers of both the constructed four level bridge interchanges.
04/83–07/86	BH-015-1(81) & (87) Mississippi River Bridge Parallel Crossing between Natchez, MS and Vidalia, LA and the Railroad Bridge Overpass in Natchez, MS: He performed Complex Bridge Design for the twin, five span, multiple cantilever through truss bridge with spans to 875' over the Mississippi River. Mr. McLellan performed the final structural design and rating calculations for all superstructure and substructure members of the constructed railroad bridge overpass with steel girder spans over the highways.
09/77–03/80	Project No. 72002-3515 Dame Point Cable Stayed Bridge over the St. Johns River, Jacksonville, FL: Structural Engineer for the concrete and steel alternates of the 1,300 foot cable stayed main span. He was instrumental in the 3-D computer modeling and the finite element modeling for the cable stayed main spans. The project included a ship collision design for all the river piers. The project set a U.S. record for cable stayed bridges and was winner of the 1990 Grand Conceptor Award.

16. Staff Experience

	Name	Erik Newman, PE		
	Firm	Huval & Associates, Inc.	Years of Relevant Experience with this Employer	17
	Title	Senior Design Structural Engineer	Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		PhD/2007/Geotechnical Engineering MS/2003/Geotechnical Engineering BS/2001/Geotechnical Engineering		
Active Registration Number/State/Expiration Date		82957/CA/09/30/2026		
Year Registered	2014	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Landslide Stabilization Brief Description: Erik specializes in numerical analyses (finite element with PLAXIS & FLAC) and design, geotechnical engineering, seismic evaluations, and condition assessments for complex structures. He, with over 17 years of civil engineering experience, excels in geotechnical investigation, inspection, engineering, civil design, and construction support for water resources projects like levees and dams. His expertise includes slope stability, seismic evaluation, liquefaction modeling, dynamic soil-structure interaction, foundation design, and rock mechanics. His dissertation focused on paleoseismology and soil liquefaction, with additional research in geosynthetic liners and soil shear strength. Since 2012, he has been part of AECOM Oakland's QA committee, assisting with QA procedures and audits.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
06/13-ongoing	Geotechnical Engineer, Anderson Dam Seismic Retrofit Project, California, Santa Clara Valley Water District (SCVWD): Worked on geotechnical analysis and design of the dam, excavation slopes, and temporary cofferdam as well as designing design in dam monitoring instrumentation and the EAP. The objectives of this project are the seismic design of dam embankment stabilization measures, design of the replacement outlet tunnel to accommodate shaking and fault offset, and the design of spillway modifications, including a gravity wall, to safely pass the probable maximum flood. PFMA studies were performed to inform decision decisions. The services included field investigation, engineering analysis, development and preparation of basis of design, preparation of contract documents including technical memoranda and reports, cost estimates, and plans and specifications.			

16. Staff Experience

06/19–04/24	Geotechnical Lead, Los Vaqueros Dam Expansion, CA, Contra Costa Water District: Managed geotechnical characterization and analysis tasks for the second expansion of the reservoir. Scope included characterization of existing embankment materials and new borrow areas, static and seismic analysis of the proposed raised dam, and analysis of appurtenant facilities. Los Vaqueros Reservoir is an off-stream reservoir which was originally constructed with a capacity of 100 thousand acre-feet (TAF) in 1997 and was expanded to 160 TAF in 2012. Design is currently underway by AECOM to expand the facility to 275 TAF, including raising the dam and spillway, and constructing new high-level and low-level outlet works. AECOM (URS) was responsible for the planning and design of the original dam (1987 – 1998) and for providing full field engineering and QA testing during construction. AECOM was also responsible for the planning and design of the first expansion project (2002–2012) and for providing full field engineering and QA testing during construction of that expansion. The facility is under DSOD jurisdiction.
09/17- 12/17	Geotechnical Engineer, Hugh Leatherman Terminal Design, South Carolina Ports Authority, Charleston, SC: Performed nonlinear site response analyses, liquefaction evaluation, and nonlinear static and dynamic SSI analysis of existing and planned port facilities. The analyses are in support of the design for the new port facilities.
06/20–06/22	Geotechnical Engineer, Mid-Barataria Sediment Diversion, LA, Louisiana Coastal Protection and Restoration Authority: Performed geotechnical modeling for planned sediment diversion structure. Task involved detailed soil-structure interaction analyses of the proposed pile-supported sediment diversion structure. Modeling considerations included compressibility of soft foundation soils, accounting for time-dependent consolidation behavior with the planned construction and dewatering sequence, nonlinear axial and lateral behavior of piles, and sequencing of backfill placement.
03/09 -08/09	New York City Department of Transportation, Soil-Structure Interaction Analysis, The Manhattan Bridge Evaluation, East River, New York, NY: Project Engineer. The work involved field explorations and geophysical surveys to evaluate the dynamic characteristics of the subsurface soils and rock, dynamic site response analyses, and dynamic soil-structure interaction analyses of the bridge tower caissons and the main cable anchorage foundations using the computer program SASSI. The SSI analyses were used to calculate the earthquake motions of the foundations and the dynamic impedances for global structural analysis of the bridge.
04/10-09/10	Model Engineer, Standard Plant Soil-Structure Interaction Analysis, North Anna Power Station, VA, Mitsubishi Heavy Industries: The work involves dynamic soil-structure interaction analyses of the Ultimate Heat Sink, Power Source Vault Structure, and Distribution Tunnel of the Nuclear Power Plant using the computer program SASSI. The SSI analyses were used to calculate the earthquake motions of the foundations for structural analysis of the power plant.
6/03–6/04	Geotechnical Engineer, Buck Center/Partridge Knolls Landslide, Novato, CA: Performed a forensic analysis of an ancient serpentinite landslide in the north San Francisco Bay Area that was reactivated by nearby development. The case successfully demonstrated that the slide was reactivated by the placement of 76,000 m3 of embankment fill at the top of the slope and not by minor grading for a residential development at the toe of the slope.

16. Staff Experience



Name	Lisa Noble		
Firm	Marmillon Gray Communications, LLC	Years of Relevant Experience with this Employer	12
Title	Public Involvement Administrator	Years of Relevant Experience with Other Employer(s)	20
Degree(s)/Years/Specialization	BA/1982/Arts		
Active Registration Number/ State/Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Community Outreach and Stakeholder Coordination Brief Description: Lisa provides expertise in public outreach, project management, planning, logistics, staging and video production for Marmillon/Gray Media. Lisa and Public Involvement Lead Rannah Gray have worked together for more than a decade ensuring an integrated approach to public outreach and communications management on projects throughout Louisiana. Lisa's project experience includes: MOVEBR, the Capital Region Planning Commission; South Central Planning and Development Commission; North Delta Regional Planning and Development District; Imperial Calcasieu Regional Planning and Development Commission; City of Opelousas, Lincoln Parish and the Town of Amite City. She is also very experienced in building, attracting, and engaging the public in transportation-related projects and gathering and tracking their feedback through a variety of channels.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
07/19-current	MOVEBR Transportation and Infrastructure Improvements Program for East Baton Rouge Parish, Baton Rouge, LA: Lisa supports Public Involvement Lead Rannah Gray on this project including the writing of program's strategic communications plan; marketing materials, award submissions, year-end reports and drafting informational updates and presentations. She assists Rannah in managing media outreach, public events, in-person and online stakeholder outreach for more than 100 community enhancement and corridor improvement projects. The MOVEBR program is the largest transportation and infrastructure initiative in East Baton Rouge Parish history, providing an investment of over \$1 billion in capacity projects, existing corridor enhancements, community improvements and traffic signal synchronization.		
09/19-current	Local Public Agency Documented Planning Process for DOTD, Baton Rouge, LA. Lisa worked with Rannah Gray to draft the plan's public and stakeholder involvement chapters, including strategies for gathering in-person and online public input. The project produced pilot plans in three communities—the city of Opelousas, the town of Amite City and Lincoln Parish. Ms. Gray, aided by Lisa, led the public outreach efforts for all three pilot programs.		

16. Staff Experience

10/23-03/24	Public Outreach for Safe Streets for All (SS4A) Plans. Lisa helped Ms. Gray lead public outreach for several clients while implementing their SS4A plans including, Capital Region Planning Commission (CRPC); South Central Planning and Development Commission (SCPDC); North Delta Regional Planning and Development District (NDRPDD).
07/17-05/23	Baton Rouge Travel Demand Management project (Commuter Krewe of Louisiana) for CRPC, Baton Rouge, LA. Lisa assisted Ms. Gary in the development of the Commuter Krewe brand, marketing plan, and promotional strategies to help reduce single-occupied vehicles. The Commuter Krewe program was developed to help reduce traffic congestion in the Capital Region.
12/18-2/19	Baton Rouge Bus Rapid Transit Feasibility Study for East Baton Rouge Parish, Baton Rouge, LA. Lisa worked with Ms. Gray on this project. She assisted in the planning and implementation of stakeholder and public meetings to gather input for proposed bus routes on Nicholson Drive and Plank Road. This project and its funding was absorbed by the MOVEBR program for more efficient management where Ms. Gray will continue to manage public engagement strategies for the project.
04/18-10/18	ADA Transition Plan for Baton Rouge Parks and Recreation Commission (BREC), Baton Rouge, LA. Ms. Gray was the lead for public outreach and Lisa assisted her. Lisa was responsible logistics and collaterals for stakeholder and public outreach activities, development of a database of advocacy organizations and people living with disabilities; creation of surveys and outreach materials and drafting of the final report. This project evaluated BREC facilities, gathered public and stakeholder input to determine priorities and developed a plan for bringing facilities into compliance with the Americans with Disabilities Act (ADA).
09/15-12/16	Nicholson Corridor High-Capacity Transit System for East Baton Rouge Parish, Baton Rouge, LA. Ms. Gray served as lead for public outreach and Lisa assisted her. Lisa responsibilities included aiding in development of the TramLinkBR brand, and logistics for stakeholder and public outreach activities including workshops, public open houses and presentations to business, civic and neighborhood organizations. TramLinkBR was a proposed modern streetcar system connecting LSU and Downtown Baton Rouge. It has since been reimagined as bus rapid transit service.
04/15-04/16	Capital Region Metropolitan Transportation Plan Update for the Capital Region Planning Commission (CRPC), Baton Rouge, LA. Ms. Gray was the lead for public outreach. Lisa helped managed public and stakeholder outreach, including developing the MOVE2042 branding, managing stakeholder and public outreach, surveys, public meetings and elected official outreach. This project provided an update of the long range transportation plan for the five parishes in the Capital Region MPO.

16. Staff Experience

	Name	Sarah Powell		
	Firm	Marmillon Gray Communications, LLC	Years of Relevant Experience with this Employer	16
	Title	Graphic Design	Years of Relevant Experience with Other Employer(s)	20
Degree(s)/Years/Specialization		Bachelor of Fine Arts/1985/ Graphic Design		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Community Outreach and Stakeholder Coordination Brief Description: Sarah provides expertise in graphic design, video production and website development for Marmillon Gray Media, including projects for East Baton Rouge Parish; the Capital Region Planning Commission (CRPC); South Central Planning and Development Commission; North Delta Regional Planning and Development District; Imperial Calcasieu Regional Planning and Development Commission; the Baton Rouge Loop project; Louisiana Department of Culture, Recreation and Tourism; and the America's WETLAND Foundation. Sarah and Project Manager Rannah Gray have worked together for more than 20 years, providing a seamless creative process for developing impactful and engaging communications. Ms. Powell's work has been a vital aspect of many successful advertising and public relations campaigns and has helped the firm win numerous national, regional and local awards such as: The Communicator Awards, Telly awards, Pollie Awards, Lantern Awards, and Addy awards.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
07/19-current	MOVEBR Transportation and Infrastructure Improvements Program for East Baton Rouge Parish, Baton Rouge, LA. Sarah serves as graphics designer. Her responsibilities include graphics and branding; still photography, videography with drone and Go-Pro cameras; production of short informational videos and animations for press announcements and social media; design of project signs; doorhangers to inform neighborhoods of project work; and presentation materials.			
09/19-current	Local Public Agency Documented Planning Process for DOTD, Baton Rouge, LA. Sarah provided graphic design for the development of a toolkit for use by communities for transportation planning. This project is providing a plan, toolkit, and resources to assist smaller communities conduct in-house planning.			
07/17-5/23	Baton Rouge Travel Demand Management project (Commuter Krewe of Louisiana) for CRPC, Baton Rouge, LA. Sarah served as graphic designer. Her responsibilities included creating the branding for the program and designing promotional materials. She also provided videography and editing for informational videos used for onboarding employees at job centers, banner design, animation for social media posts, on-site sign design and collateral materials. The Commuter Krewe branding has been adopted by the New Orleans and Lafayette MPOs to promote ridesharing throughout the region. The program encourages ridesharing and other alternatives to single-occupied vehicles to help reduce traffic congestion in the Capital Region.			

16. Staff Experience

12/18-02/19	Baton Rouge Bus Rapid Transit Feasibility Study for East Baton Rouge Parish, Baton Rouge, LA. Sarah serves as graphic designer. She designed meeting notices, posters and collateral materials for stakeholder and public outreach and public open house meetings. This study was conducted to determine whether work conducted for a proposed modern streetcar system could be used to develop a bus rapid transit route instead.
04/18-10/18	ADA Transition Plan for Baton Rouge Parks and Recreation Commission (BREC), Baton Rouge, LA. Sarah served as graphic designer. She designed meeting notices, social media posts, posters, and collateral materials for public and stakeholder outreach and public meetings. Her ability to design materials that complemented BREC's existing "Imagine Your Parks" campaign helped give the ADA Transition Plan identity and credibility. The plan provided an evaluation of BREC's facilities, gathered public input to determine priorities and developed a plan to BREC to achieve compliance with the Americans with Disabilities Act. (ADA)
03/09-03/16	Implementation Plan and EIS for the Baton Rouge Loop project for the Capital Area Expressway Authority, Baton Rouge, LA. Sarah served as graphic designer. Her responsibilities included graphic design and logo design, production of informational videos for public meetings and presentations, collateral materials. The Baton Rouge Loop was a proposed by-pass around Baton Rouge to help reduce traffic congestion in the Capital Region.
09/15-12/16	Nicholson Corridor High-Capacity Transit System for East Baton Rouge Parish, Baton Rouge, LA. Sarah served as graphic and web designer. Her responsibilities include designing the TramLinkBR project brand, website design and management, production of informational videos, and collateral materials. TramLinkBR was a proposed modern streetcar system connecting LSU and Downtown Baton Rouge. It has been converted to a bus rapid transit route by the current administration.
04/15-04/16	Capital Region Metropolitan Transportation Plan Update for the Capital Region Planning Commission, Baton Rouge, LA. Sarah served as graphic designer. She created the MOVE2042 project logo and designed stakeholder and public meeting materials. This project provided an update of the long-range transportation plan for the five parishes in the Capital Region MPO.
08/10-01/12	Capital Region Bicycle and Pedestrian Safety Campaign for the Capital Region Planning Commission, Baton Rouge, LA. Sarah served as graphic designer and video producer. She designed print ads, posters, billboards, handouts, and videos as part of the public education campaign to encourage bicycle and pedestrian safety in the Capital Region. This project aimed to reduce bicycle crashes and pedestrian deaths and during the campaign, bicycle crashes decreased 24% in the Capital Region and 32% in East Baton Rouge Parish, while pedestrian deaths decreased 12% in the Capital Region and 31% in East Baton Rouge Parish.

16. Staff Experience

	Name	Chris Reed, PhD		
	Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	30
	Title	Senior Scientist	Years of Relevant Experience with Other Employer(s)	5
Degree(s)/Years/Specialization		PhD/987/Engineering Science and Mechanics/University of Florida; MS/984/Engineering Science and Mechanics/University of Florida; BS/1982/Engineering Sciences/Georgia Institute of Technology		
Active Registration Number/State/Expiration Date		NA		
Year Registered	NA	Discipline	H&H Analysis and Scour Analysis	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: H&H Analysis / Bridge Scour Analysis Brief Description: Chris has years of experience in conducting coastal and oceanographic hydrodynamic and sediment transport studies, feasibility studies and design analysis. His modeling experience includes surf-zone transport and inlet dynamics. He also has conducted numerous hydrodynamic and water quality studies in tidally and wind dominated coastal regions along the Atlantic, Pacific and Gulf coasts. He has focused on the development and application of purpose-built one, 2- and 3-dimensional sediment transport models for specialized applications in these areas. He has also developed and applied hydrodynamic models for circulation, sediment transport, water quality studies, surf zone transport, inlet dynamics, and storm surge analysis. Chris is experienced in the application of standard process-based transport models including the SMS models RMA2 and 4, ADCIRC, M2D, as well as HSPF and the HEC suite of models. He is a co-author on the M2D model hydrodynamic and sediment transport model, which is part of the USACE supported SMS software package. Chris has applied these models for industrial clients and governmental agencies and often coordinates with academic institutions.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
08/18-07/19	US 51 Hydraulic Design of Bridges over Peachahala and Hudson Creeks, MDOT: Chris provided technical oversight and conducted the internal review of the modeling analysis. The MDOT is re-designing bridges on the Peachahala and Hudson Creeks. Provided modeling analysis to assess the performance of the new bridge designs for the % and 0.2% annual change flood events. The bridges are located in portions of the river systems with wide flood plains, necessitating the application of 2D modeling. The SRH-2D model with the SMS GUI was used for the analysis. The model was calibrated to historic conditions, the then the impact of the new bridge designs were evaluated with the calibrated model.			
09/22-ongoing	Mid-Barataria Sediment Diversion Project (MBSD) , CPRA, LA: The MBSD project consists of a channel connecting the Mississippi River to the Barataria Basin. The channel is two miles long with gates at the Mississippi River end to control flow and sediment load and cuts through the NOV levee system to discharge into the basin. He has conducted surge and wave analysis of the outfall structure to evaluate design alternatives and develop armoring rock size for design. He also provided technical oversight of the Hwy 23 bridge pier scour analysis for the project.			

16. Staff Experience

02/10-05/20	Sediment Transport Modeling, Matagorda Navigation Channel, U.S. Army Corps of Engineers: The Matagorda Ship Channel has planned new work to deepen and widen the existing navigation channel through Matagorda Bay and Lavaca Bay. It is expected that maintenance dredging requirements will increase as a result of the project. Chris investigated the transport of the fine sediments comprising the channel shoaling and conducted analysis to determine the fate of the increased maintenance dredging. The primary objectives of the analysis were to determine if the existing placement areas could still be used without increasing the recycling of the dredged material into the channel, and if the placement areas would experience a buildup of sediments.
11/24-ongoing	Flood Protection Level of Service, St. Lucie and Loxahatchee Basins, St. Lucie, Martin and Plam Beach Counties, FL: AECOM is currently under contract to conduct the FPLOS study for the St Lucie/Indian River (SLE) and Loxahatchee System (LOX) basins which are the following: C-23, C-24, C-25, C-44, S-153, Ten Mile Creek, Pal Mar, Jupiter Farms, Historical Cypress Creek, Grove, Loxahatchee Wild and Scenic Area (including Riverine Corridor, Reese Property), Kitching Creek, and C-18/ Corbett watersheds. The project scope included collecting and evaluating existing data, model selection, the development and calibration of the watershed model, and then the application of the model to mitigate potential flooding for future sea-level rise and infrastructure scenarios.
01/23-06/23	Lake Wales Wetlands Mitigation and Road Scour Improvement, Florida Fish and Wildlife Conservation Commission, FL: The FWC is investigating alternatives to improving a wetland function in the Lake Placid wetlands and to also improve scour protection of gravel and dirt roads throughout the site. Chris provided hydrological and hydrodynamic model analysis to evaluate alternative mitigation designs consisting of channel plugs and weirs in retaining runoff on the site in improving the hydroperiod. He also conducted analysis to evaluate scour reductions due to various water bar configurations along the main roads crossing the site.
05/14-09/16	Tamiami Trail "Next Steps" Environmental Impact Statement, Everglades National Park, National Park Service, FL: Chris provided reviews of alternative performance in terms of surface water hydrology for the NEPA EIS Tamiami Trail (U.S. Highway 41) "Next Steps" transportation project to restore more natural flows to ENP and restore the ecological conditions in the Park. Project was considered a critical component of the \$10.9 billion Comprehensive Everglades Restoration Plan (CERP). Six alternatives were developed and the estimated cost for the preferred alternative was \$279M.

16. Staff Experience



Name	Greg Reilly, PE		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	2.5
Title	Associate Vice President, Sr. Electrical Manager	Years of Relevant Experience with Other Employer(s)	16.5
Degree(s)/Years/Specialization	BS/2004/Electrical Engineering		
Active Registration Number/State/Expiration Date	PE/0047409/LA/03-31-2027 Additional active licenses: PE IL, IN, NE, KS, FL, GA, MO, TX, OH, RI, MN, WA		
Year Registered	2022	Discipline	Electrical Engineer
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Aesthetic Lighting Lead Brief Description: Greg has been in responsible charge of the aesthetic bridge lighting for many DOT projects. He has led aesthetic lighting designs throughout the development of the conceptual, preliminary and final design phases for state DOT's. His experience includes dynamic color changing LED lighting, DMX control systems, electrical systems, communication systems, and coordination throughout project development. His experience includes the design and preparation of aesthetic bridge lighting plans, project special provisions and project cost estimates formatted in accordance with project guidelines.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
03/24-ongoing	Brent Spence Companion Bridge, KYTC, Covington, KY: Aesthetic Lighting Design Lead. Responsible for specifications, details, and designs for the aesthetic lighting systems on the new Brent Spence Companion Bridge over the Ohio River, which is using a progressive design-build project delivery method. Lead role also included coordination with other lighting, electrical, and ITS designers to ensure all the various systems on the bridge were constructable. The design included RGBW LED aesthetic lighting fixtures and DMX512 control system for the cable stayed dual-deck bridge. A combination of color-changing flood lights, linear fixtures, and direct-view linear fixtures were used to highlight aesthetic features of the bridge. The control system provided dynamic lighting shows, calendar-based color schemes, remote control/programming, and remote device monitoring of individual fixture health. Developed specifications, details, and design plans for all aesthetic lighting work, including coordination with involved disciplines through construction.		
02/25-ongoing	Leonard P. Zakim Bridge Preservation, MassDOT, Boston, MA: Aesthetic Lighting Design Lead. Responsible for specifications, details, and designs for the replacement aesthetic lighting system on the Zakim Bridge over the Charles River, as part of an overall bridge structure preservation contract. Lead role also included coordination with other lighting and structural designers to ensure all the various systems on the bridge were constructable. The design included RGBW LED aesthetic lighting fixtures and DMX512 control system for the cable stayed bridge. A combination of color-changing flood lights, direct-view "dot" fixtures, and direct-view linear fixtures were used to highlight aesthetic features of the bridge. The control system provided dynamic lighting shows, calendar-based color schemes, remote control/programming, and remote device monitoring of individual fixture health. Developed specifications, details, and design plans for all aesthetic lighting work, including coordination with involved disciplines through construction.		

16. Staff Experience

03/24-02/25	Mount Hope Bridge, RITBA, Bristol, RI: Aesthetic Lighting Design Lead. Responsible for specifications, details, and designs for the aesthetic lighting systems on the Mount Hope suspension bridge over Mount Hope Bay. Lead role also included coordination with structural bridge cable dehumidification designers to ensure the designs worked together. The design included RGBW LED aesthetic lighting fixtures and DMX512 control system for the suspension bridge. A combination of color-changing flood lights and direct-view "dot" fixtures were used to replace the necklace lighting on the suspension cable and add lighting for the towers. The control system provided dynamic lighting shows, calendar-based color schemes, remote control/programming, and remote device monitoring of individual fixture health. Developed specifications, details, and design plans for all aesthetic lighting work, including coordination with involved disciplines.
08/23-10/23	Livingston Avenue Bridge, NYSDOT, Albany, NY: Aesthetic Lighting Design Lead – Pursuit Phase. Responsible for specifications, details, and designs for the aesthetic lighting systems on the replacement Amtrak/CSXT railroad and pedestrian bridge over the Hudson River, which utilized a design-build project delivery method. Lead role also included coordination with other lighting, electrical, and bridge designers to ensure all the various systems on the bridge were constructable. The design included RGBW LED aesthetic lighting fixtures and DMX512 control system for the vertical-lift steel truss bridge. A combination of color-changing flood lights and linear wall wash/graze fixtures were used to highlight the trusses, piers, towers, and mechanical house of the bridge. The control system provided dynamic lighting shows, calendar-based color schemes, remote control/programming, and remote device monitoring of individual fixture health. Developed 30% specifications, details, and design plans for all aesthetic lighting work, including coordination with involved disciplines through the pursuit phase.
01/24-03/24	I-10 Architectural Towers – Aesthetic Lighting Report, TxDOT, El Paso, TX: Aesthetic Lighting Design Lead. Responsible for field investigation, report, cost estimate, details, and renderings for the aesthetic lighting replacement and enhancement for six architectural lantern towers. The tower heights ranged from 60' to 100' tall. The design included RGBW LED aesthetic lighting fixtures and DMX512 control system to replace the internal lantern lighting and add aesthetic lighting for the tower exterior. A combination of color-changing flood lights and linear fixtures were used to internally illuminate the glass lanterns at night and highlight the exterior stucco and brick surfaces. The control system provided calendar-based color schemes, remote control/programming, and remote device monitoring of individual fixture health. Developed recommendations for aesthetic lighting work to help the client solve long standing issues with insufficient lantern brightness.
10/12-12/20	I-74 over the Mississippi River Design, Iowa Department of Transportation, Bettendorf, IA / Moline, IL: QA/QC and design. Provided roadway, navigation, and aesthetic lighting design and QA/QC for the design team. Lighting design included the preparation of contract plans, estimates, and specifications. The project scope included designing roadway and aesthetic lighting and coordination with the structural designs for the roadway reconstruction of I-74 from Bettendorf, Iowa to Moline, Illinois. The existing suspension bridge was replaced with a steel tied-arch bridge, which included RGB LED aesthetic lighting and DMX512 controls. A combination of color-changing flood lights and linear wall wash fixtures were used to highlight the arch, cables, and many piers. The control system provided dynamic lighting shows, calendar-based color schemes, and remote control/programming. The design of the lighting system includes 45' and 50' roadway poles with specially designed 14' davit arms with 10' radii and LED luminaries. Decorative "C" shaped light poles with LED luminaries were also included in the design for the arch bridge and multi-use path. Swivel mount LED navigation lighting was also designed per US Coast Guard Standards. [Prior to AECOM]

16. Staff Experience



Name	Jose L. Rodriguez, PE		
Firm	Arcadis	Years of Relevant Experience with this Employer	1
Title	Senior Civil Engineer	Years of Relevant Experience with Other Employer(s)	24
Degree(s)/Years/Specialization	BS/1992/Civil Engineering, University of New Orleans		
Active Registration Number/State/Expiration Date	PE.0030492/LA/Exp. 03/31/2025		
Year Registered	2003	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: LA Roadway Design Brief Description: Jose has more than 25 years of experience with roles of progressive responsibility as a civil engineer performing roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, estimating, and project implementation for various clients in Louisiana, Texas, Georgia, and North Carolina. Jose has worked in close relationship with the Federal Highway Administration (FHWA), U.S. Army Corps of Engineers (USACE), Louisiana Department of Transportation (LADOTD), local parish governments, and regional planning commissions. He has extensive experience with Bentley Inroads, Autodesk Civil 3d, and Leap Bridge for Concrete Bridge Design. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010 and remains active in the organization.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
07/09-07/15	Peters Road Expansion, Phases I-III, LADOTD, Plaquemines, LA. Project Designer. Responsible for the geometric design, plan preparation and wetland delineation of Peters Road Phases I, II and III. The projects consisted of a new roadway, elevated crossing over the Intracoastal Waterway, approach roadways in Jefferson and Plaquemines Parishes to tie Peters Road to Louisiana 23 near Barrier Road. During the environmental phase of the project, Jose actively contributed to the preparation of plans and exhibits required for securing permits from the U.S. Coast Guard and the USACE. These projects were executed in close collaboration with Plaquemines Parish, the LADOTD, and the USACE.		
01/08-05/08	I-12 to Bush Corridor Study Phase III (EIS), LADOTD, St. Tammany Parish, LA. Project Designer. Responsible for evaluating environmental issues and developing design alternatives in accordance with the National Environmental Policy Act (NEPA) for transportation improvements. Jose, working in coordination with the environmental team, helped produce plans and exhibits for the development of GIS data sets for the project.		
04/21-ongoing	Lee Drive (Highland Road to Perkins) Final Design Study Report, MOVEBR Baton Rouge, LA. Project Designer. Responsible for coordinating and developing concept drawings to evaluate the geometric feasibility of different roadway alternatives, proposed improvements, and anticipated right-of-way needs. Provided technical guidance to help identify green infrastructure opportunities along the project. Also assisted in the implementation of Complete Street regulations for the corridor. During the alternative's selection process, conducts cost estimates to evaluate and select the preferred alternative.		

16. Staff Experience

01/06–09/09	New Orleans Submerged Roadway Program Management, LADOTD / New Orleans Regional Planning Commission, New Orleans, LA. Project Designer and Quality Control Reviewer for the program management team for the LADOTD and the FHWA. Jose helped develop design guidelines and processes for the standardization of engineering work for the repair of roadways damaged by Hurricane Katrina in the City of New Orleans and other parishes. Responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with LADOTD and FHWA design standards.
02/10–06/11	I-10 from Veterans to Clearview, LADOTD, Metairie, LA. Project Designer. Responsible for roadway plan preparation for widening 1.2 miles of I-10 from three lanes to five lanes in each direction. The project also included bridge work to accommodate the interstate widening. Jose was also responsible for the alignment and design of concrete sound walls along the corridor. He helped implement an innovative two-sided concrete stamp process for the noise wall precast concrete panels.
05/12–12/15	Earhart Boulevard-Causeway Interchange, LADOTD, New Orleans, LA. Project Designer. Responsible for the geometric design and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.
06/04–01/11	Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA. Project Designer. This project consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the roadway plan preparation for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.
01/20–05/20	NC Highway 73 (NC 73) Widening, North Carolina DOT, Mecklenburg County, NC. Project Engineer. Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges due to the high traffic volumes, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards.
03/19–05/20	Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. Assessment Roadway Lead: Responsible for reviewing, preparing reports, and coordinating repairs at over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project adhered to the client's guidelines and strict schedules. Jose ensured that all fieldwork and plan development were aligned with Puerto Rico's horizontal and vertical datums for integration with GIS systems.
04/18–09/20	Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, TX. Project Designer. Assisted with establishing flood elevations for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted by the High-Speed rail.

16. Staff Experience



Name	Andres Sanchez, International Assoc. AIA		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	3
Title	Manager, Visualization / Digital Consulting	Years of Relevant Experience with Other Employer(s)	15

Degree(s)/Years/Specialization	Master Computer Animation/2006; Bachelor in Architecture/2003		
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Active Registration Number/State/Expiration Date	N/A		
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Year Registered	N/A	Discipline	N/A
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Virtual Meeting Specialist Brief Description: Andres has dedicated the past 18 years of his career to supporting projects within the Architecture, Engineering, and Construction (AEC) industries. Throughout this time, he has provided valuable insights and solutions to clients through the use of cutting-edge technology in computer animation, delivering high-quality 3D animations, video production, website development, and virtual reality experiences. Andres has worked closely with architects, engineers, developers, and innovators, collaborating as an integral member of design teams. He excels in translating clients' visions into compelling digital assets, ensuring that each project aligns with both the creative and technical goals. His proficiency with advanced software allows him to select the most suitable tools for each project, enabling him to effectively convey design concepts and intent in visual formats that serve as powerful communication tools for clients, as well as design and construction teams. Committed to staying at the forefront of industry trends, Andres continually updates his knowledge of new technologies and applications within the AEC sector. This ensures that both the company and our clients benefit from the latest advancements in visual communication.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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01/23-05/23	Houston Ship Channel Bridge, TX. For this project, Andres responsibility was to create a series of static and animated sequences to show our proposed solution for a Bridge static lighting analysis, this task included day and night renders. The night renders show a color-changing sequence that allows for a vision and impact on the city skyline.		
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04/23-08/23	DOTD, State Project No. H.004273.5 I-49 Lafayette Connector Supplemental EIS, Lafayette, LA. Andres was responsible for creating 3d renderings for 4 different alternatives of possible structure designs as well as 4 bridges design concepts that will impact the connector design. Due to a large number of renderings and key points of view, Andres developed a virtual room that is accessible on the web for the public and stakeholders to stay updated on the progress of design and in an interactive way understand the different design solutions around the corridor.		
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16. Staff Experience

04/21-07/21	Natchez Trace Parkway Bridge, Williamson County, TN. For this iconic project, AECOM was selected to present a solution to eliminate the high cases of suicides that happened in this location every year. Andres took the technical documents provided by the bridge expert and designed 4 different options to stop these incidents from happening in the future and with the use of the 3D software Andres created photo-realistic views from different angles to improve the studies on the safety and esthetics of each option and how those studies will impact the iconic design of Natchez Trace Bridge.
06/20-9/20	D' Orleans Bridge, Quebec City, Quebec. Andres was responsible for creating a state of the art animation for the D' Orleans Bridge Competition in Quebec City. The important idea was to showcase this iconic bridge's unique design and the urban area on both ends of the bridge, also, show the design in different times of day for a complete understanding on how this project will impact the city. Andres took the design technical documents, landscape design, and the team's vision and put it all together on the 3D software, and was able to deliver a high-quality video for the new project.
08/23-12/23	City of Savannah, Traffic Simulations, GA. The City of Savannah needs clear information about potential traffic issues that a new port located close to the city will affect the future traffic conditions of the Savannah, after a series of traffic studies done by AECOM, Andres was responsible to showcase with a virtual exploration tool the postential issues in four of the most important areas of the city. After this study was completed this tool shows clearly the comparison between 2021 traffic conditions vs 2040 traffic conditions, helping the city understand the potential issues for the city's future traffic.
06/20-9/20	State Road No 817/University Drive. Andres was responsible for creating and coordinating the animation and public engagement tool that showcases the vision for the road renovation in State Road No 817, this animation presents a detailed drive-thru. This Project and the Virtual engagement tool allow anybody to explore a digital twin experience of the project in detail.
07/22-11/22	Van Wyck Expressway (VWE) Capacity and Access Improvements to JFK Airport, Contract 3 Design-Build, NY. Andres was responsible for the creation of high-quality visuals that portray the intended design, construction sequences, and Phasing Plan, due to the level of detail in this project, and its complexity, 3D generated visuals are a key component of this pursuit, Andres had to gather all the relevant information from the Team and with animations and static images make sure the client understands this complex project.
10/21-1/22	Broward County -University Drive Improvements, FL. Andres was responsible for finding a solution to a proposed virtual exploration meeting room. The client needs a simple and clear way to allow anyone interested in the project to have a clear understanding of the Proposed AECOM improvements. Using the 3D models and Virtual reality software, Andres developed a web-based virtual room that allows users to explore the mile-long project improvements in detail, Some of the key benefits of this Virtual room are: allowing users to zoom to street level, access aerial view panoramas, and watch a detail fly-thru of the corridor. This technology will facilitate communication and make important decisions based on accurate visual representation.
03/25-4/25	Dothan City HWY 605, AL. For this project, Andres was tasked with creating a Virtual Public Involvement website. This virtual platform enables residents of the City of Dothan to access critical information regarding the new corridor study for Hwy 605 Brannon Stand Rd. Through this interactive website, users can explore detailed drawings of the entire corridor, as well as additional documentation that explains the project's concepts and future plans.
03/25-4/25	City of Decatur, AL. For this project, the City of Decatur required an interactive map to present key information about its future development plans. The primary objective was to showcase how AECOM will enhance pedestrian pathways and bike trails throughout the city. The interactive experience allows users to engage with the project area, explore various design alternatives, and view visual graphics that clearly communicate the proposed plans for the city's future infrastructure improvements.

16. Staff Experience



Name	Krishna Satti, PE, PMP		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	7
Title	Associate Vice President - Texas Transportation Planning Lead	Years of Relevant Experience with Other Employer(s)	13
Degree(s)/Years/Specialization	MBA/2024; MS/2005/Civil (Transportation) Engineering; BS/2002/Civil Engineering		
Active Registration Number/State/Expiration Date	135360/TX/06/25/25 PE/AZ		
Year Registered	2008	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Contract Role: NEPA Documentation Brief Description: Krishna has 20 years of experience in transportation planning and engineering design, including studies and analysis, and modeling/ forecasting travel demand. His project management experience includes managing planning and environmental linkage (PEL) studies, schematic and environmental studies, multimodal corridor planning studies, master plans, and feasibility studies. His professional expertise spans the entire project lifecycle, from initial planning and conceptualization to final design plans. He has comprehensive knowledge in multimodal operational analyses, safety analyses, public engagement initiatives, travel demand modeling analyses, alternative analyses, and evaluation of corridor-level performance.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
10/23-present	Gulf Freeway Planning and Environmental Linkage Study, TxDOT, TX. Krishna is serving as Project Manager to explore transportation alternatives addressing the growing safety, mobility, multimodal, and infrastructure needs along the corridor, driven by projected population and employment growth in the Houston metropolitan area. The PEL approach was to build on previously completed planning studies by evaluating existing conditions, projecting future scenarios, and assessing how various alternatives could address issues related to growth, congestion, mobility, safety, connectivity, freight, and asset management. The study focused on a 14-mile stretch of I-45 South from I-69/US 59 in Downtown Houston to BW 8 South. Public meetings were conducted in both English and Spanish, offering participants the option to attend either in person or virtually, thereby enhancing accessibility. Krishna and his team developed all materials in English, translated them into Spanish, and conducted the meetings in both languages. Krishna also created a detailed schedule, coordinated with subconsultants, and successfully managed the team to deliver the public meeting on time with high quality.		
10/16-11/17	I-85 Managed Lanes (Schematic and Environmental), Houston, Georgia – GDOT. Krishna served as traffic Modeling Lead evaluated one of the congested sections of I-85 between SH 316 and I-985. He performed complex traffic operations analysis. Although a formal PEL study was not conducted, his work aligned with PEL principles by proactively identifying operational challenges and potential solutions early in the project development process. The proposed EIS design plans have been developed to mitigate these issues. The project included system-to-system multi-level & regular interchanges and intersections, CD roads, and managed lanes.		

16. Staff Experience

04/21-10/23	SH 6 Corridor Feasibility Study and Preliminary Schematic Design, TxDOT, Brazos and Robertson Counties, TX. Krishna served as Project Manager with a primary focus on conducting thorough technical analyses and identifying vital corridor enhancements to improve safety and mobility along a 32-mile segment of SH 6 spanning Brazos and Robertson Counties. Additionally, he was involved in developing a new alignment designed to serve as a relief route for Hearne through stakeholder and public meetings. While a formal PEL study was not conducted, the project incorporated many PEL-aligned practices, including early coordination, a broad evaluation of alternatives for the new I-14 interstate highway, and the integration of environmental, traffic, safety, and right-of-way considerations into the planning phase. His dedicated team undertook a comprehensive analysis of potential relief routes around Hearne, Texas, conducting in-depth technical evaluations encompassing various aspects, including roadway elements, traffic and safety conditions, environmental considerations, and right-of-way impacts. Throughout this process, a detailed technical report was meticulously crafted, with a specific emphasis on the outcomes of the traffic, safety, and environmental analyses. In addition to these responsibilities, Krishna led the charge in developing multiple innovative interchange concepts at strategic locations. These concepts were thoughtfully designed to enhance mobility and safety at key intersections, thereby aligning with and contributing to the overarching goals of the project.
09/11-06/13	US 290 Program Management – Schematic and Environmental, TxDOT, Houston, TX (Traffic Modeling Lead) Krishna served as a Traffic Modeling Lead and evaluated one of the most congested interstate freeways in the state: IH-610 between IH-45 and Katy Freeway. He performed complex traffic operations analysis using multiple tools – CORSIM, VISSIM, etc. As part of a PEL approach, Krishna ensured that environmental considerations, community needs, and transportation goals were integrated early in the project development process. The proposed FEIS design plans have been developed to mitigate these issues. Krishna's traffic model included system-to-system multi-level and traditional interchanges, HOV lanes, park-and-ride facilities, frontage roads, and a railroad. In addition, multi-level complex interchange alternatives were evaluated that provided new direct access from US-290 to IH-10 / IH-610. The final US-290/IH-610/I-10 interchange included a combination of direct connectors and a CD system; all the existing ramp movements and frontage road access were maintained and most of the park-and-ride access. Krishna conducted thorough calibration and validation of the base traffic model to ensure its accuracy in representing existing conditions. Subsequently, he employed the model to evaluate all the proposed alternatives.
06/10-12/11	SR 202 Loop Design Concept Report (Schematics/ Environmental), Mesa, AZ. ADOT Traffic Task Lead collaborated with roadway and bridge teams to develop alternatives and estimate the preliminary construction cost for each alternative. In addition, Krishna was responsible for traffic and planning tasks and evaluating the operational analysis of the corridor. This analysis includes using the CORSIM traffic modeling software to analyze existing and future conditions with and without the additional lane. The project consists of preparing a Design Concept Report to widen 6 miles of State Route 202L (SR 202L) with an additional general-purpose lane in each direction between SR 101L freeway and Gilbert Road and interchange improvements at various locations, including the SR 101 and SR 202L system-system interchange.
02/09-10/10	SR 101 Loop Design Concept Report (Schematics/ Environmental), Scottsdale, AZ. As Traffic Task Lead, Krishna developed alternatives at various traffic interchanges and worked with roadway engineers to check the footprint of the alternative and cost implications. Krishna performed alternative analysis, conducted highway capacity analysis, signing, pavement marking design, preliminary cost estimate, and traffic lighting design. He developed a traffic simulation model for analyzing traffic for both existing conditions and various alternatives for future conditions using CORSIM. He was responsible for traffic and planning-related tasks, performing operational, weaving, and ramp analyses. The project included preparing a Design Concept Report and 30% of construction plans to add one additional general-purpose lane in each direction on 15 miles of SR 101L freeway.

16. Staff Experience



Name	Robert Schmidt, PE, PTOE		
Firm	Huval & Associates, Inc.	Years of Relevant Experience with this Employer	9
Title	Engineering Manager	Years of Relevant Experience with Other Employer(s)	35

Degree(s)/Years/Specialization	BS/1982/Civil Engineering		
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Active Registration Number/State/Expiration Date	22837/LA/09-30-2025		
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Year Registered	1987	Discipline	Civil Engineering
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: LA Roadway Design Brief Description: Robert is a Senior Manager at Huval & Associates. Prior to this role, he served as Practice Leader for international engineering firms in Louisiana and the Gulf Coast area. With 42 years of broad transportation experience in New Orleans, Baton Rouge, and across the nation, he has focused on some of the most challenging projects in the industry. He has led all aspects of transportation, including program management and administration, planning, traffic engineering, design, construction, and operations. He has managed numerous alternative delivery projects, such as Design-Build and Construction Manager at Risk (CMAR). Throughout his career, he has dedicated himself to providing credible, high-quality, innovative solutions to Louisiana's transportation system and other systems across the country.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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01/20-present	Louisiana DOTD, I-10 CMAR Project (Reconstruction and Widening) LA 415 to Essen Lane on I-10 and I-12, WBR and EBR Parishes, LA. HUVAL's project manager and principal in responsible charge of design on its \$2.0 billion project to widen I-10 in the heavily congested section through Baton Rouge. This very complex project will replace existing bridges in the urban area within an extremely constrained right of way while maintaining the existing 3 lanes of traffic flow on I-10 through the construction zone. Schmidt is responsible for all aspects of the design team including preparation of plans for 7 construction contracts to cover Segment 1 of the corridor. Services include extensive traffic studies to provide for Maintenance of Traffic through the construction zone during construction as well as numerous context sensitive design and aesthetic treatments through the corridor.		
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02/22-present	Louisiana DOTD, I-10 Calcasieu P3 Project, Lake Charles, LA. HUVAL's Project Director and Roadway Design Key Personnel for the preliminary design phase of the \$2.3 billion I-10 P3 reconstruction project in urban Lake Charles. The project is being delivered by alternative delivery including toll financing. Services include traffic engineering, bridge design, road design, and related activities. Alternative technical concepts have been developed by HUVAL saving approximately \$100 million in project cost, helping to make the project financially solvent.		
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16. Staff Experience

03/00-09/10 04/21-04/25	Louisiana DOTD, I-10 Calcasieu River Bridge and Approaches EIS and P3, Lake Charles, LA. Project Manager and Project Principal for this 9-mile \$500 million urban freeway improvements project in the NEPA planning phase and the P3 delivery phase (in progress). In these roles he has had ultimate responsibility for all aspects of the project, including NEPA planning, design, traffic control, schedule compliance, and QA/QC plans/adherence. This urban freeway project is extremely comprehensive and complex, consisting of the reconstruction of an existing I-10 high level crossing of the Calcasieu River and improvements to nine miles of urban freeway approaches. An interchange at the base of the bridge significantly complicates the design, construction staging, and maintenance of traffic options. He has worked with DOTD leaders to solve these issues, which has had the added benefit of managing funding requirements by staged implementation over time. The project includes an EIS/ROD, preliminary geometric and bridge design, special engineering studies (including traffic impacts through the construction zone and value engineering regarding hazardous waste issues), and litigation support regarding hazardous waste encroachments. The project is now in the P# project delivery phase.
01/18-present	Louisiana DOTD, New Belle Chasse Bridge P3 Project - S.P. H.004791, LA. Design Manager for the new \$150 million Belle Chasse bridge and urban roadway approaches, including a new access management interchange between LA 23 and Engineers Road. In this role he is responsible for all design work performed on the project including road, bridge, geotechnical, traffic engineering, and other disciplines. The project is currently 50% through the design phase.
01/20-present	Louisiana DOTD, Comite Diversion Canal Highway and Railroad Bridges CMAR, S.P. H. 001352.5 and H. 002273.5, Caddo Parish, LA. CMAR liaison for the CMAR Preconstruction Phase of this \$50 million project to build new highway bridges on LA 19 and LA 67 over the new Comite River Diversion Canal. The project also includes design of a new railroad bridge over the new canal parallel to LA 19. Detour roadways, railroad shooflys, utility coordination are also a part of the project.
01/22-present	City-Parish of Baton Rouge/E. Baton Rouge, US 61 Airline Highway North, Baton Rouge, LA. HUVAL's Project Manager leading the Traffic Engineering, NEPA studies, and Roadway Design for the 5.8 miles section of Airline Highway in East Baton Rouge Parish. The project includes upgrading the road from 4 to 6 lanes including access management and superstreet design features.
01/12-03/15	Louisiana DOTD, Jimmie Davis Bridge EA, Shreveport, LA. Project Principal for an EA to replace the 80 year old steel truss bridge over the Red River near Shreveport, LA. The project includes approach roadways and interchanges. Alternatives considered include a new four lane structure, rehabilitating the existing truss bridge and providing a new two lane structure, and removing the existing truss superstructure from the existing piers and providing a new plate girder structure using existing piers. Cost management to meet funding availability is a big issue on the project, as well as coordination with the Coast Guard regarding the navigable waterway.
06/07-09/10	Capital Area Expressway Authority (CAEA), Baton Rouge Loop Toll Road EIS, Baton Rouge, LA. Project Manager and Project Principal for this ongoing project. The project includes developing an Implementation Plan and then a two-tier EIS for a 90-mile loop toll road around the Baton Rouge region. This \$4.5 billion Loop project includes two new Mississippi River bridges and approximately 25 interchanges. Coordination and interaction with numerous agencies including the local toll authority (CAEA), LA DOTD, FHWA, Baton Rouge City-Parish, Coast Guard, and Corps of Engineers has been critical. Elected official and public outreach has also been an important part of the project. The Tier 1 EIS and ROD is scheduled for completion in May 2011.

16. Staff Experience

	Name	Shashank Shekhar, PE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	7
	Title	Principal Transportation Engineer	Years of Relevant Experience with Other Employer(s)	19
Degree(s)/Years/Specialization		MS/2005/Civil Engineering BS/2002/Civil Engineering		
Active Registration Number/State/Expiration Date		PE 36244/TX/ 2025 PE 149479/NC/2026		
Year Registered	2023	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Regional Travel Demand Planning Brief Description: Shashank specializes in transportation planning, travel demand modeling, traffic forecasting and operations analysis. He is experienced in land use modeling, travel demand modeling, traffic projection, transit ridership forecasting, traffic simulation, GIS mapping, visualization, data collection and analysis.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
06/18-08/22	SMART Study, TxDOT Houston District, Tx: DPM and Task Lead. As a DPM and Planning & Modeling Task lead for TxDOT Houston SMART Study, he led the literature review, developed "first of a kind" methodology that seamlessly integrated vision, drivers, plausible scenarios, 3-tier modeling (land use modeling, travel demand modeling and mesoscopic modeling) and outlook. He was instrumental in developing and shaping the Major Drivers (factors) that are relevant to the sub-region and formulating scenarios around CAV, transit, tele-commuting, e-commerce and high growth. He worked closely with H-GAC land use team in evaluating the impact of CAV and transit on land use allocations to "shape the demand" rather than "chasing the demand". He led the development of data visualization tools in ArcGIS and Tableau. Shashank coordinated with subject matter experts to develop modeling assumptions for scenarios including CAV, transit, land use, telecommuting and e-commerce. The performance measures from models, tied to study goals and objectives, were translated into tangible scenario planning outcomes. This helped in better understanding of emerging issues facing the sub-region and evaluate effect of different policy and project choices. SMART Study utilized FHWA's Exploratory Model Analysis Tool (EMAT) for which several mesoscopic scenarios were run, and large output data were generated. Shashank led development of Tableau dashboard to present model results in an interactive and visual format. The dashboard enabled in-depth analysis in a user-friendly way.			
09/17-03/19	I-10 East Planning and Environmental Linkage (I-10E PEL) Study, Houston, TX: Traffic projections task lead for I-10E PEL study located on east side of Houston. As a subconsultant project manager, Shashank developed traffic forecasts for 30-mile corridor along I-10 consisting of main lanes, frontage roads, ramps, and crossing arterials with over 30 interchanges. In Phase 1 of the project, he led sub-area travel demand model calibration and validation, and development of traffic forecast diagrams for AADT, AM peak hour and PM peak hour for existing conditions and future year No Build scenarios. Currently working on Phase 2 to short-list Build alternatives and develop traffic projections. Utilized H-GAC TDM analysis to narrow down from universe of alternatives and shortlist selected alternatives. The corridor was divided into five segments, with urbanized area near downtown Houston at one end and rural area in Chambers County on the other end, and each segment was evaluated based on it's unique land use and transportation needs.			

16. Staff Experience

05/18-Ongoing	NCDOT 2024 Traffic Forecasting On-call, NC: Project manager for current 2024 on-call and two previous on-calls (2018 and 2021) with North Carolina Department of Transportation (NCDOT) for development of project-level traffic forecasts statewide. As a PM, Shashank managed projects from scoping through final forecast delivery and completed over 25 traffic forecasts for NCDOT. The forecasts included all three categories – Category A (Regional Forecasts requiring the use of Regional Travel Demand Models), Category B (Other Modeled Forecasts requiring use of a non-regional Transportation Travel Demand Models), and Category C (Other Forecasts not utilizing Transportation Travel Demand Models). Managed multiple work authorizations concurrently and led the Arcadis team to complete each project on schedule. Developed traffic projections for diverse areas - from high growth urban areas with regional TDM to negative growth rural areas without any TDM and areas in-between. Applied suitable analysis approach to meet each project's unique requirements – managed lanes, new bypass route, route re-location, proposed large future developments, innovative interchange and intersections, etc.
08/20-01/25	I-35 Segment 3 & Segment 4 IAJRs, TxDOT Design Division, Laredo, TX: Deputy PM for the project and is leading traffic operations analysis and traffic safety analysis. Arcadis, as a prime consultant to TxDOT Design Division, is developing two IAJRs in Webb County in Laredo District. Projects would widen I-35 to six lanes, add a new interchange, replace deficient interstate bridges, improve existing interchanges, and extend frontage roads. Coordinated early on with the Design Division, Laredo District, TPP and FHWA to define a streamlined alternatives analysis approach. The simplified approach was clearly defined in the Methodology and Assumptions (M&A) document and received quick approval from all stakeholders. The streamlined approach cut down in unnecessary alternatives analysis scenarios and allows an expedited IAJR development while meeting all the requirements and focusing on the key issues. Utilized traffic count data from several sources to develop existing AADT and peak hour volumes as traffic count was uncertain due to impact of Covid-19. Our approach to data collection and traffic volume development allowed the project to move forward without relying on uncertain traffic count data during the pandemic.
02/21-11/21	FM 1220 Traffic Engineering Study, TxDOT Fort Worth District, TX: As the traffic lead, Shashank oversaw development of the Vissim microsimulation model, identified operational and safety issues, developed range of short-term cost-effective solutions, tested alternatives, and made final recommendations. Arcadis, as a prime consultant on Fort Worth District Traffic / ITS on call, conducted a traffic engineering study along FM 1220 between Rocky Point Trail and Venera Street in Tarrant County. The purpose of this study was to evaluate traffic operations and recommend improvements for the corridor implementable in the short-term. Developed a range of short-term solutions including signal timing optimization, access management, addition / extension of turn lanes, lane restriping and traffic signal warrant/removal analysis. Rapid testing of many concepts in Vissim to select most effective improvements. Maximized efficiency of the existing transportation infrastructure by identifying cost-effective short-term improvements that could immediately improve corridor traffic operations and safety.
08/19-03/20	I-285 Westside Express Lanes, Atlanta, Georgia DOT, GA: Task lead for traffic analysis of 10-mi corridor of I-285 between I-20 and Paces Ferry Road. The project is part of Georgia's Major Mobility Investment program focusing on reducing congestion by constructing one new, buffer-separated express lane in each direction of I-285. In-charge traffic analysis. Reviewed volume development, Vissim microsimulation calibration and analysis, QA/QC and final report to GDOT.

16. Staff Experience



Name	Sarah Spatzer		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	5
Title	Environmental Manager and Data Scientist V	Years of Relevant Experience with Other Employer(s)	14
Degree(s)/Years/Specialization	MS/2013/Environmental Management; BS/2007/Wildlife Biology		
Active Registration Number/State/Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Regulatory Brief Description: Sarah is an experienced environmental project manager and data scientist with 19 years of expertise. She specializes in managing complex projects that integrate environmental work and digital scripting, focusing on regulatory and social risk planning, impact mitigation, and strategic integration of natural capital concepts. Her background includes five years as a Regulatory Project Manager with the USACE Savannah District, where she coordinated environmental permitting activities. Additionally, Sarah has instructed GIS courses for regulators across multiple districts, showcasing her proficiency in geospatial technologies.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
10/20-ongoing	Southeast Transportation On-call Environmental Services, Georgia, Alabama, and Tennessee (GDOT, ALDOT, and TDOT). As Environmental Manager, she serves as well as a consultant for the Office of Environmental Services at GDOT. Sarah has assisted in the review and approval of over 78 bridge projects within GDOT, within the GDOT Bridge PTIP Program, that has allowed those projects to continue within their schedule to construction. She has also participated and led approximately seven large complex delineations in the states of Georgia, Alabama, Mississippi, and Tennessee within the last two years, with either transportation agencies or the state agencies. All seven of those projects are currently being developed, as she assisted or participated in them receiving all their environmental permits within or ahead of schedule.		
9/21-ongoing	GDOT Bridge PTIP Program, Statewide, GA. As Team Lead, working with the GDOT Bridge Program to revamp the Project Team Initiation Process screening process, by developing a one-stop-shop for all team members to access data and files. Her team is creating 20+ specialized dashboard tools that streamline the screening process and automate repeated analysis. Other work includes developing forms for each discipline, scheduling trackers to manage who has completed work, and moving the old access database into an ESRI online database that pulls in GeoPI data to streamline the input process and eliminate mistakes across bridge batches. This includes a created as main author software development kit, for right of way calculations at the programmatic level. It brings in Regrid API, and it estimates cost of procurement with up-to-date real estate data. It also created an automated ROW spatial series from the Bridge Centerpoint, as well as an Environmental Survey Boundary. This tool was developed in AECOM EMAP Technology stack initially, but it is now being migrated to the client's technology stack, GDOT.		

16. Staff Experience

4/22 - ongoing	I-75 @ CR 312 Bethlehem Road – GDOT : This Project is at 100% Design level. The estimated cost is \$135M. The scope of work is to revised alignment of Bethlehem road including 4 roundabouts, replacing of existing bridge over I-75, 2 new bridges, additional lanes and ramps to I-75, realignment of SR 42, etc. I reviewed and analyzed drawings & specifications and have carried out Take-off quantities Cost estimating from 30 %, 60% , 90% and 95% Costing plan to ongoing with 100% Costing plan.
6/23 – 3/24	Bryan County Mega Site Project – GDOT: This project is consist of Frontage Road – 100 % Design level - \$37.5M, Old Cuyler Road – 100% Design level - \$80.7M and US – 280 – 90% Design level – \$46.4M, (total of \$164.6M). The scope of work is to develop Frontage Road, revised alignment and development of Old Cuyler Road, and US 280 including roundabouts, replacing of existing pavement, construction of new pavement, widening of bridges and ramps, etc. I reviewed and analyzed drawings & specifications and have carried out Take-off quantities Cost estimating.
07/23 – 12/23	North Station Draw 1 Bridge Replacement, MBTA. Cost Estimator. The project is at 75% Design level. The project estimated cost is \$1.018 Billion. The scope of the work of this project is of demolition and reconstruction / replacement of (1) Entire North Trestle. (2) Entire Moveable Span Structure. (3) Entire South Trestle. (4) Existing Fender System (5) Existing Abandoned Foundation System. (6) Partial demolition of Existing North and South Abutments and Existing Seawall. (7) Relocation of entire Signals and Utilities system. Also proposed new Control Tower – A. I reviewed and analyzed drawings & specifications and have carried out Take-off quantities and conceptual Cost estimating.
10/22 – 12/22	Pawtucket Layover Inspection Building, MBTA. Cost Estimator. The project is at 100% Design level. The project estimated cost is \$88.19 million. The scope of the work of this project is of removing and relocating exiting 7 tracks, relocating utilities, remove and replacing of Inspection Building, construction of new triple stack or double stack train layover storage. I reviewed and analyzed drawings & specifications and have carried out Take-off quantities and conceptual Cost estimating.
05/20 – 07/20	Winchester Center Station Rehabilitation, MBTA. Cost Estimator. The project is at 100% Design level. The project estimated cost is \$44.90 million. The scope of the work of this project is Demolition and replacement of existing Winchester Station platform, construction of new IB Midway Stair, OB Elevator, replacing existing utilities, installing plumbing, electrical, Mechanical and fire alarm work. Milling and overlaying of existing pavement including curb and gutter, drainage system. Installation of Micro piles and structural piles to support new structure. I reviewed and analyzed drawings & specifications and have carried out Take-off quantities and conceptual Cost estimating.
9/18 – 04/20	Renew Atlanta Bond Program / TSPLOST – City of Atlanta. Program consists of over 450 individual projects, which includes both horizontal and vertical projects containing scope of work such as pavement restoration / installation, traffic signalization, streetscape pedestrian improvement, bridges, ADA and sidewalk upgrades. The Program will upgrade all the fire station buildings, renovate parks and recreation centers including replacement of dehumidification units and park equipment. The program will build more than 30 miles of complete streets projects and bicycle lanes and will synchronize Atlanta's traffic signals.

16. Staff Experience



Name	Sunil Talati		
Firm	Arcadis	Years of Relevant Experience with this Employer	7.5
Title	Senior Cost Estimator	Years of Relevant Experience with Other Employer(s)	35
Degree(s)/Years/Specialization	BS, Civil Engineering, The Institution of Engineers (India) – 1983		
Active Registration Number /State/Expiration Date	PE Passed – NCEES ID -14-917-53, Texas PE, Dt 4/21/2017 (Waiting for License)		
Year Registered	2017	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Contract Role: Independent Cost Estimator Brief Description: Sunil, a Senior Estimator with over 42 years of experience in civil engineering, specializes in cost estimating, project engineering, and structural design. His expertise spans heavy civil engineering structures, including bridges, highways, tunnels, canals, and dams. Currently based in Atlanta, GA, at Arcadis Design and Consultancy, he contributes to site improvement and safe route development projects. Sunil has also worked on significant projects in India, such as the Sardar Sarovar Project and the Post-Earthquake Redevelopment Program. Proficient in IT, he has developed and utilized software for structural analysis and design, including AutoCAD and programming in C and FORTRAN.		
Experience (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
11/17-08/18	FY17 & FY18 Bridges – GDOT. : GDOT has proposed to replace existing structurally weak bridges with complete lane closures. I have carried out bridge replacement estimates of the 9 counties of GA.		
01/18 –03/21	I-75 & I-85 Downtown Connector, GDOT, Atlanta, GA. Cost Estimator. This project is at a conceptual level in which cost estimating study and feasibility study of various alternatives are carried out. Alternatives were studied for relocations of existing lanes with additional lanes, two express lanes, HOV lanes, Grade-separated interchanges, ramps, etc. To accommodate present and future traffic.		
04/21-ongoing	I-285 Westside Express Lanes, Georgia Department Of Transportation, Atlanta, GA. Cost Estimator. GDOT trusted Arcadis to deliver the Governor's top priority project within an extremely aggressive schedule. This project includes 15 miles of expressway and 12 interchanges. Arcadis is serving as the General Engineering Consultant (GEC) for this complex design-build project. Arcadis led the initial risk workshop at 5% design, which involved reviewing key project stakeholders, delivery dates and the identification and scoring of project risks. Arcadis holds monthly risk reviews with the project team and GDOT's Program Management Consultant (PMC) to check if risk mitigations are being progressed and that risk management is being consistently applied across the entire Program.		

16. Staff Experience

10/20-ongoing	On-call Engineering Services, Georgia Ports Authority (GPA), GA. Environmental Manager, Deputy Program Manager, and Environmental and Regulatory SME providing environmental permitting support associated with AECOM's on-call engineering and consulting services contract in the Georgia Coastal Plains for Georgia Ports Authority. Entire environmental support and execution for nine (9) individual permit authorizations, eight (8) permit modifications, and 20 general permit authorizations under Section 10 Rivers and Harbors Act/Section 404 of the Clean Water Act. Also, lead expert to ensure compliance and submittal of over 28 General Stormwater Construction Permits. Provided lead expertise and execution on four separate NEPA approvals (CEs/EAs) from varying federal agencies providing funding for GPA for them to receive their funding and NEPA Compliance. Deputy Program Manager that leads, coaches, teaches, and mentors 20 staff members, that vary in background from environmental planners, engineers, and construction management personnel.
03/21-ongoing	Vessel Network Model, Quality Assurance Lead, Lead Modeler, State, Federal, and International Clients, Multiple Navigable Channels (U.S. and International). As the Lead Modeler, and QA/QC lead, Sarah coordinates with multiple State, Federal, and Local clients to model the navigable waterways and their vessel fleets. This analysis provides operational answers for current river operations, as well as potential future scenarios. Provided complete quality assurance and review of AECOM owned and created model, that evaluates multiple factors in navigation and port work. That provides customers with tiered priorities to plan for future improvement activities within navigational channels. This modeling also includes working with the pilots, USCG, the USACE District Operations/Navigation Section, and tug companies.
04/15-01/20	U.S. Army Corps of Engineers, Savannah District, GA. Served as National GIS Instructor, GIS Administrator (700+ user management), Full Stack Developer, and Regulatory Project Manager. Created over 200 applications for efficiency across USACE nationally. Applications were developed for multiple business lines from Regulatory Division, Emergency Management, Planning, Operations and Navigation to Hydraulics and Hydrology. Lead National USACE GIS instructor for two years. Ms. Spatzer also served on multiple interdisciplinary teams within USACE that improved or assisted in improvements of archaic oracle databases. She has worked in both the CWBI and AWS, USACE interfaces, both the public and private facing. As an instrumental Regulatory Project Manager in the the Savannah District, she processed thousands of permits and delineations during her tenure at the U.S. Army Corps of Engineers, from simple to complex projects. She was responsible for the busiest 14 counties within the Coastal Branch of the Regulatory Division. She led three Wetland Delineation Courses, and two Soil courses in conjunction with GDOT and other interagency attendance. Sarah was also the Project Manager for five of the military installations Regulatory Permitting within those counties.
04/24-ongoing	Integrated Feasibility Report and Environmental Assessment for Menominee Harbor Navigation Improvement Study, Fincantieri Marine, Marinette, Wisconsin/Menominee, MI. Technical Advisor and Lead Environmental Qualified Reviewer for non-federal project sponsor supporting completion of USACE Detroit District's Planning Division in the evaluation of the potential deepening of the Menominee River. Responsible for project evaluation of water quality, aquatic habitat, fisheries, social/ environmental justice, cumulative effects as well as performance of the alternatives analysis and 404(b)(1) analysis for dredge material placement areas.

16. Staff Experience



Name	Jason Thompson		
Firm	Fahrenheit Creative Group LLC	Years of Relevant Experience with this Employer	14
Title	Principal	Years of Relevant Experience with Other Employer(s)	0

Degree(s)/Years/Specialization	BS/2004/Business Administration		
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Active Registration Number/State/Expiration Date	N/A		
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Year Registered	N/A	Discipline	N/A
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Community Outreach and Stakeholder Coordination Brief Description: Jason oversees and manages marketing communications campaigns for a diverse array of clients, including the National Network of Public Health Institutes, Truth Initiative, W.K. Kellogg Foundation, Packard Foundation, and Hewlett Foundation. He has coordinated local, regional and national media campaigns and developed creative concepts, layouts and designs for programmatic, print, outdoor, television and radio.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
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09/16-9/20	Hind County School District, MS. Communications and Community Engagement Support		
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04/19-10/19	Jackson Municipal Airport Authority, MS. Marketing Strategy and Implementation		
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03/18-12/19	Better Together Community Engagement and Education (WKKF, State of Mississippi, and City of Jackson partnership).		
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09/22-10/24	W.K. Kellogg Foundation and Community Foundation for Mississippi Jackson Water. Community Engagement and Education.		
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01/24-10/24	US Water Alliance and MS Alliance of Nonprofits and Philanthropy. Disaster Preparedness and Recovery Engagement		
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16. Staff Experience



Name	Abby Tomlinson		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	6
Title	Communication Senior Manager	Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization	MA/2011/Mass Communication; BS/2009/Public Involvement		
Active Registration Number/ State/Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Virtual Meeting Specialist Brief Description: Abby has experience in execution and management of all aspects of public involvement, including high-level stakeholder coordination, management of the NEPA public involvement process, coordination and development of multi-platform communications campaigns and grassroots stakeholder engagement. Her multimodal project portfolio includes highway/ bridge, transit, aviation, emerging technologies, and seaports.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
01/20-ongoing	TxDOT, Transportation Planning and Programming Extension of Staff, Statewide, TX. Outreach Oversight Lead. Abby is currently supporting TxDOT's statewide outreach oversight team, located within the TPP organization. Support long-term initiatives including the development of statewide engagement toolkits targeted at typically underserved populations; assisting in the outreach related to Unified Transportation Plan updates, including managing and reporting out on comments received from the public; development of a suite of materials related to online engagement, including tear sheets and presentations on each of three major platforms (MetroQuest, Bang the Table and Social Pinpoint); development of content sites on each platform at the request of District project teams. Developed a memo for the Commission's consideration that evaluates various open comment options and makes recommendations for updates to Commission policies. Upon approval of policy changes, began to lead the implementation team to develop materials and processes related to these policy updates.		
07/21-ongoing	City of Austin, Transit Enhancements Project, Austin, TX. Task Lead. City of Austin strategy and boots-on-the ground, pop-up style engagement to share information about potential transit-supportive investments outside of the Project Connect System. Engagements focus on better understanding current transit users experiences and connecting those experiences with potential transit service improvements. In-community engagement strategies netted hundreds of completed surveys from current system users that generally matched the demographic breakdown of CapMetro's rider profile, meeting multiple outreach goals set by the project team.		
10/22- ongoing	Invenergy, Grain Belt Express EIS, KS and MO. Lead Public Involvement. This project is a 530-mile transmission line project across two midwestern states. Led the development of all content, including a property owner mailing to a 3,000-person list developed by the AECOM team, a website, and all materials and logistics for two virtual engagement sessions and four public meetings across the two states. Materials included a presentation, a set of exhibits, a fact sheet, and logistics included coordination of two teams from three different entities across the two states for a week of activities.		

16. Staff Experience

09/22-ongoing	TxDOT, Gulf Freeway (I-45S) Planning and Environmental Linkages Study and I-45N Planning and Environmental Linkages Study, Houston, TX. Public Involvement. Lead materials development and logistical planning for stakeholder and public outreach efforts for this PEL study. In addition to stakeholder meetings with agency partners and elected officials, this project includes both virtual and in-person outreach to the general public. Outreach includes traditional open houses, as well as virtual engagement strategies including virtual presentations, social media outreach, and virtual surveys through MetroQuest.
05/22-12/22	Arizona Department of Transportation, ADOT Electric Vehicle Infrastructure Deployment Plan, Statewide, AZ. Public and Stakeholder Outreach Task Leads. Development of a statewide electric vehicle deployment plan. Specific tactics included the development and maintenance of a 300+ member stakeholder list and the materials and logistical management of a stakeholder meeting attended by hundreds of policymakers, advocacy groups, and transportation officials. The stakeholder meeting achieved high participation and good feedback on the use of virtual engagement tools including Zoom Webinar, Mentimeter, and Survey Monkey. The project also included a statewide virtual public meeting attended by hundreds and a series of in-person public meetings throughout the state.
05/22-12/22	Central Yavapai Metropolitan Planning Organization, Sundog Connector, AZ. Public Engagement Task Lead. This project is a controversial greenfield project in rural Arizona. Worked with project technical team to develop outreach approach and materials (exhibits and FAQs) aimed at developing informed consent for the project. Crafted an approach to the open house that engaged participants in targeted activities to break down general controversy into specific points of feedback for use by the technical team.
09/19-11/21	Utah Department of Transportation Express Lanes, Messaging Support, Salt Lake City, UT. Outreach. Strategic messaging guidance and support for the UDOT Express Lanes team in the redevelopment of website content and overall messaging strategy. She supports the development of a user survey designed to better understand driver habits and motivations and has supported the development of a smartphone application for use by drivers as part of a new pilot program.
10/19-ongoing	DFW Airport, Communications Project Manager, DFW, TX. Project Lead. Internal stakeholder coordination exercise designed to assess and document the lessons learned from recent major airfield construction projects. Conducted facilitated conversations with more than 100 participants representing all aspects of airport operations and each phase of the project lifecycle. Worked to isolate and describe trends and implementable lessons learned in a comprehensive report on the effort. Continue to support the effort through the development of tools and processes designed to facilitate and improve stakeholder collaboration and communication. Developed materials to assist in community engagement, planned and executed constructor outreach events for major projects, and authored award submissions for various projects and industry/publication award cycles.
03/19-ongoing	Capital Metropolitan Transportation Authority, Project Connect Orange Line EIS, Austin, TX. PI Task Lead. Pre-construction project development for the 21-mile, urban corridor light rail spine of Austin's future transit system. Managed the development and execution of the entire stakeholder engagement strategy including all messaging and materials for the public, media, elected officials, EJ, and internal audiences. Developed the project's Public Involvement Plan with an emphasis on engaging typically underrepresented audiences and supported regular analysis to determine success against target metrics. Stress a collaborative approach to engagement through hands-on community workshops, virtual engagement tools and one-on-one stakeholder meetings with key audiences and community members. Support the Agency in property owner outreach, day-to-day management of public and stakeholder inquiries, and day-to-day documentation needs. Authored Chapter 5 (engagement chapter) for the EIS document along with the management of several rounds of iterative reviews from the Agency, Collaborating Agencies, and the Federal Transit Administration. Developed a high-quality, graphic EIS Executive Summary for the project which highlights the results of each chapter and tech report.

16. Staff Experience



Name	Bradley Touchstone, FAIA, RA		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	30
Title	VP, Bridge Architect - Complex Bridges	Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization	BA/1993/Architecture		
Active Registration Number/State/Expiration Date	Registered Architect #6057/Louisiana /12/31/2025		
Year Registered	2004	Discipline	Bridge Architecture
Contract Role(s) / Brief Description of Responsibilities	Contract Role: Bridge Architecture Brief Description: Bradley will use his years of design and facilitation work to help facilitate agreement on bridge and urban design issues. He has over 25 years of experience as a Bridge Architect and in using design features to mitigate impacts associated with visual change, Section 4(f) and S106.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
03/16-08/19	Gordie Howe International Crossing, Detroit, MI: Bridge Architect and Aesthetics Lead responsible for the development of the aesthetic design requirements for the main bridge and lead author for the aesthetic design guidelines for the entire \$2.7 billion project. Mr. Touchstone served as lead aesthetic consultant to the owner (Windsor-Detroit Bridge Authority) during the two year procurement P3 procurement process.		
02/08-12/11	LADOTD State Project No. 052-02-0024 John James Audubon Bridge, Point Coupee and West Feliciana Parishes, LA: Bridge Architect responsible for the aesthetics associated with the new Audubon Bridge over the Mississippi River in St. Francisville, LA.		
11/15-05/17	LADOTD State Project No H.003495, I-49N Segment K – Phase I (I-220 to MLK Dr.). Shreveport, LA: Bridge Architect responsible for aesthetics, public involvement and coordination of the art in public places installation on the new bridge.		
06/11-12/12	Hastings Bridge, Hastings, MN: Bridge Architect and Visual Quality Manager for the replacement of the existing bridge over the Mississippi River. Mr. Touchstone led the architectural design and public involvement process for the river bridge.		
03/07-02/09	Red Wing Bridge, Red Wing, MN: Bridge Architect for stakeholder involvement and preliminary design for the new Mississippi River crossing in historic downtown Red Wing, MN. This work included to development of the Aesthetic Design Guidelines that directed the development of the final bridge design.		
03/07-02/09	kciCON, Kansas City, MO: Bridge Architect for the design/build team constructing the kciCON Bridge. Bradley C. Touchstone, AIA led a community involvement and aesthetic design process for the design build team of Paseo Corridor Constructors resulting in a design which was awarded 95% of the potential points for aesthetics, secured the contract and opened the door to an entirely new level of public input for major bridge projects.		
05/07-05/10	First Street Bridge Restoration and Expansion, Los Angeles, CA: Bridge Architect for the restoration and expansion of this 1920's spandrel arch bridge in Los Angeles, CA. The bridge is listed on the National Historic Register and required HABS/ HAER Recordation for the State Historic Preservation Office and the National Parks Service. Mr. Touchstone led the historic mitigation and design process for the significant urban bridge.		

16. Staff Experience

	Name	Luis Velasquez, PE		
	Firm	Arcadis	Years of Relevant Experience with this Employer	9
	Title	Senior Transportation Engineer	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2012/Civil Engineering		
Active Registration Number/State/Expiration Date		PE.045025/GA/Exp. 12/2025		
Year Registered	2019	Discipline	Civil Engineering	
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Noise/Air Quality Analysis Brief Description: Luis is an air quality and noise analyst with seven years of experience in transportation engineering. His engineering experience includes developing environmental air and noise special studies for a wide variety of roadway and bridge projects. Services included carbon monoxide analysis using CAL3QHC, Mobile Source Air Toxics (MSAT) analysis, PM2.5 review, ozone conformity review and Traffic Noise Model 2.5 (TNM 2.5) analysis. The air analysis also includes a review of conformity to the National Ambient Air Quality Standards (NAAQS) for ozone, nitrogen dioxide, sulfur dioxide, and lead. Experienced performing noise studies in accordance with FHWA Highway Traffic Noise Policy and Guidance and state DOT noise policies.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).			
12/18-05/19	I-40 at I-77 at Interchange Improvements, TIP Project I-3819, Flatiron Contractors, NC. Noise Subject Matter Expert for the proposing Design-Build Team (Flatiron Constructors), reviewing the design noise report as part of the pre-bid tender phase of the project. The noise analysis review was completed, included becoming familiar with the NCDOT Traffic Noise Policy and providing details of the design noise report to the Design-Build Team. The expert review provided by Luis indicated that the design noise report completed back in 2010 did not meet new NCDOT Traffic Noise Policy requirements. A risk assessment workshop was completed with the roadway engineers, noise team, and contractors to determine how best to estimate for new noise barriers along the project limits.			
07/15-05/19	I-85 HOT Lane Extension PI# 110600, CW Matthews Contracting Company, Atlanta, GA. Noise Subject Matter Expert for the proposing Design-Build Team (C.W Matthews Contracting) reviewing the noise report as part of the pre-bid tender phase of the project. Provided details of the noise report to the Design-Build Team and coordinated with roadway design engineers for optimal placement of the required noise barriers. Re-designed and optimized the required noise barriers, while still meeting GDOT Noise Policy, and reduced the project total barrier area by an estimated 50,000 square feet, providing an estimated cost savings of \$1.3M to the contractor.			
07/17-05/19	I-85 General Purpose Lane Widening. PI# 110610, CW Matthews Contracting Company, Atlanta, GA. Noise Subject Matter Expert for the proposing Design-Build Team (C.W Matthews Contracting) reviewing the noise report as part of the pre-bid tender phase of the project. Re-designed and optimized the required noise barriers, while still meeting GDOT Noise Policy, and reduced the project total barrier area by an estimated 20,000 square feet, providing an estimated cost savings of \$500K to the contractor.			

16. Staff Experience

09/13–03/16	I-285 at Riverside Drive, GDOT, Atlanta, GA. Traffic Engineer. Conducted a traffic noise impact assessment for the proposed Interstate 285 at Riverside Drive interchange modification. Project responsibilities included data collection of existing conditions, and traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts based on the proposed interchange configuration, and investigated the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Compiled all noise analysis and results into narrative reports and figures.
04/14–06/15	I-285 @ GA 400, GDOT, Metro Atlanta, GA. Traffic Engineer. Conducted traffic noise impact assessment for one of Metro Atlanta's most congested interchanges to support an Environmental Assessment, public involvement, and NEPA Re-Evaluation. Performed data collection of existing conditions, and traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts based on the proposed interchange configuration. Investigated the feasibility of noise mitigation measures (sound barriers) including benefit-cost ratios.
12/15–11/17	I-16 at I-95 Interchange Reconstruction, I-16 Widening, GDOT, Chatham County, GA. Air and Noise Engineer. Conducted traffic noise impact assessment and air analysis report for the I-16 at I-95 interchange reconstruction and I-16 Widening Project in Savannah, GA. Responsibilities included data collection of existing conditions, creation of traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts due to proposed interchange configuration and investigated the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Air quality analysis included CO analysis using CAL3QHC and coordination on MSAT, PM2.5, and ozone analysis. The report also includes a review of conformity to NAAQS for ozone, nitrogen dioxide, sulfur dioxide, and lead.
11/16–06/20	I-20 Over Savannah River Bridge Replacement, GDOT, Richmond County, GA. Traffic Engineer. Conducting traffic noise impact assessment and air analysis report for the I-20 Over Savannah River Bridge Replacement Project in Augusta, GA. Responsibilities included data collection of existing conditions, creation of traffic noise modelling for existing, no-build and build conditions using TNM 2.5. Identify potential traffic noise impacts due to proposed interchange configuration and investigates the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Air quality analysis included CO analysis using CAL3QHC and coordination on MSAT, PM2.5, and ozone analysis. The report also includes a review of conformity to the NAAQS for ozone, nitrogen dioxide, sulfur dioxide, and lead.

16. Staff Experience



Name	Anne Watkins		
Firm	AECOM Technical Services, Inc.	Years of Relevant Experience with this Employer	16
Title	Grant Application Preparation	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		MBA/2012/Economics & Finance; BBA/2009/Economics & Finance	
Active Registration Number/State/Expiration Date		N/A	
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities		Contract Role: Grant Application Preparation Brief Description: Anne will provide support on the economics team, utilizing her specialties in transportation economics, benefit cost analyses, and grant applications. She is an economist with experience evaluating transportation, flood risk management, and other infrastructure projects. She has prepared the benefit-cost analysis for numerous winning grant applications, helping to secure over \$1.2 billion in federal funding for her clients. She has experience using spreadsheet, database, and statistical software to analyze and understand large data sets and prepare long term forecasts. She is skilled in writing clear, concise reports, decision documents, and grant applications to explain complicated concepts. She has determined trade patterns based upon data from both public and proprietary sources such as the U.S. Census, railcar waybill sample, the Navigation Data Center, and IHS Sea-Web, and has experience interviewing tenants, government officials, and other stakeholders. In addition, Ms. Watkins has experience creating and testing models for the US Army Corps of Engineers and has also used economic models developed by private industry, such as IMPLAN, and government agencies, such as the Federal Emergency Management Agency BCA Toolkit and Federal Highway Administration BCA.Net, to calculate benefits and economic impacts for various types of projects.	
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
05/23-09/23	Louisiana International Terminal USDOT Grant, Port of New Orleans, LA: Developed a BCA for a winning USDOT grant application for a new greenfield container terminal on the Lower Mississippi River. Benefits were based on reducing inland transportation costs for container imports and exports through the Gulf of Mexico. The Project was awarded \$300 million from USDOT.		
05/23-09/23	Humboldt Bay Offshore Wind Port INFRA Grant, Crowley, CA: Contributed to the BCA of a winning USDOT grant application for the retrofit of Humboldt Port to accommodate offshore wind turbine assembly and maintenance. Benefits were based on decreased transportation costs to the offshore wind areas and increased reliability of the power grid. The Project was awarded \$426.7 million.		
08/16-10/17	NMDOT, New Mexico Rail Plan, NM: Economist, Prepared IMPLAN analysis to demonstrate the contribution to New Mexico's economy provided by rail transportation throughout the state. Analysis included freight transportation, passenger transportation (Amtrak and commuter rail), and industries dependent upon rail access.		

16. Staff Experience

09/22-01/23	Gold Hill Drinking Water Transmission Pipeline BRIC Grant, City of Greeley, CO: Developed the BCA for a winning BRIC Grant for a new drinking water pipeline to connect the City of Greeley's two water treatment plants. The new pipeline will be able to deliver the full production of both plants to all four pressure zones in the service area, providing flexibility and redundancy in the case of wildfire, drought, or other hazards such as infrastructure failure, cyber-attacks, or contamination. The Project was awarded \$13.8 million from FEMA.
05/23-09/23	Eastern Pittsburgh Multimodal Corridor MEGA Grant, Southwestern Pennsylvania Commission, PA: Developed a BCA for a winning USDOT grant application. The Project includes 8 individual actions, each of which had an independent BCA, that will make significant safety and time savings improvements for the 100,000 daily travelers on the I-376 "Parkway East" corridor and the MLK Jr Busway. The Project was awarded \$142.3 million.
09/18-04/19	Multimodal Transit Center Feasibility Study and Conceptual Plan, Laplace, LA: Economist. St. John the Baptist parish. Used IMPLAN to determine the economic impacts of developing a multi-modal transit center. Calculated both short term construction impacts and on-going impacts of associated redevelopment.
02/22-05/22	Newport Pell Bridge - Multi Modal Climate Resiliency and Safety Project Grant Application, Rhode Island Turnpike and Bridge Authority, RI: Developed a BCA for the USDOT MPDG grant application; the Project will complete a partial depth deck replacement, install a main cable dehumidification system, and replace cable suspenders for an iconic suspension bridge over the Narragansett Bay. Benefits were based on reduced travel delays and detours and cost-savings of this innovative repair method compared to full cable replacement. The Project was awarded an \$82.5 million INFRA grant.
02/19-04/19	Market Demand Study and Business Case Analysis for Reduction of Emissions through Intermodal Opportunities and Incentives, Port Houston Authority, Houston, TX: Economist, Developed benefit-cost analyses for five alternatives to help Port Houston reduce their emissions, including shifting to rail, container-on-barge, electric shuttle, electric or LNG trucks, and cleaner cargo handling equipment.
02/19-04/19	Market Demand Study and Business Case Analysis for Reduction of Emissions through Intermodal Opportunities and Incentives, Port Houston Authority, Houston, TX: Economist, Developed benefit-cost analyses for five alternatives to help Port Houston reduce their emissions, including shifting to rail, container-on-barge, electric shuttle, electric or LNG trucks, and cleaner cargo handling equipment.
07/19-12/20	Port Houston Widening Analysis, Port Houston, TX: Economist, Used the HarborSym model to calculate the NED benefits of widening the Houston Ship Channel. Evaluated past casualty incidents to determine NED safety benefits of a widened channel.
03/22-05/22	Next Generation Zero-Emission Bus Operations, Maintenance, and Administration Facility, Yuba Sutter Transit Authority RAISE Application, CA: Developed a BCA for a new transit facility and electric buses for submission to the USDOT RAISE program. Key benefits included reduced deadhead hours, reduced fuel costs, increased mobility and community connectivity, emissions savings, and maintenance cost savings. The Project was awarded \$15 million.

16. Staff Experience



Name	Ross Wilson, PLS		
Firm	Forte & Tablada	Years of Relevant Experience with this Employer	14
Title	Senior Professional Land Surveyor	Years of Relevant Experience with Other Employer(s)	2

Degree(s)/Years/Specialization	BS/2010/Geomatics		
Active Registration Number/State/Expiration Date	PLS 5148/LA/03/31/2026 Additional active licenses; TX, MS, AR, FL, KY, TN, GA		

Year Registered	2015	Discipline	Land Surveying
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Contract Role(s) / Brief Description of Responsibilities	Contract Role: Topographic Survey/Lidar Model Brief Description: Ross will supervise all field and office work performed on task orders. He will also lead the effort on estimating task orders and producing project deliverables ahead of any project deadlines. Ross will be responsible for all QA/QC efforts from beginning to end of each task order, including the final project deliverables. Ross has 12 years of experience of managing field crews and office work on on-system LADOTD Topographic Surveys, with 9 years being the Professional Surveyor in Charge on these projects. Ross has managed 37 task orders under 3 separate Topographic IDIQ Contracts with LADOTD. Ross fulfills the MPR #26 of being a professional land surveyor, registered in the state of Louisiana, having a minimum of five (5) years of experience in conducting topographic surveys for DOTD as shown below.		
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Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).		
08/23 – ongoing	Contract 4400025029- H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553: Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program–10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, LA – Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 13 bridge sites on 2 lane roadways.		
12/21–ongoing	IDIQ Contract No. 4400021974 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07, LA: Surveyor-in-Charge performing Topographic Surveys for LA DOTD. This contract showcases Mr. Wilson's familiarity with the process of managing LADOTD Survey IDIQ Task Orders from beginning to end. To date, this IDIQ contract has included a total of 9 separate Task Orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.		
06/21–ongoing	Contract 4400019336- H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05, LA: Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 20 bridge sites on 2 lane rural roadways.		

16. Staff Experience

08/19–ongoing	H.011670- I-10/Loyola Interchange Improvements, Kenner, LA: Surveyor-in-Charge providing Topographic Survey, Right-of-Way Survey, Drainage Survey, and Right-of-Way Monument Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required weekly data updates, to allow the Design team to begin working and stay on schedule.
08/15–ongoing	H.004273.5 – I-49 Connector, Lafayette Parish, LA – LA DOTD: Survey Manager/ Surveyor-in-Charge responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. was able to mobilize up to 4 Survey crews on this project, in order to meet phased deadlines. This project demonstrates Mr. Wilson's ability to fulfill the minimum personnel requirement of having over five (5) years of experience in conducting topographic surveys.
05/21–12/22	Contracts 4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI), Calcasieu Parish, LA: Surveyor-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.
06/17–06/22	Retainer Contract No. 4400010587 for Professional Surveying Services – Statewide with Majority of Work in Districts 02, 03, 07, 61 and 62, LA: Surveyor-in-Charge performing Topographic Surveys for LA DOTD. This contract showcases Mr. Wilson's familiarity with the process of managing LADOTD Survey IDIQ Task Orders from beginning to end. This Retainer contract included a total of 18 separate Task Orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.
06/20–03/22	Contract 4400017598- H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58, LA: Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 22 bridge sites on 2 lane rural roadways.
01/20–10/20	Contract 4400010587- Task Orders 6, 7, and 8- H.012588, H.012169, H.012587 I-10 Atch Basin Br-W. Baton Rouge P/L, I-10 Iberville P/L-W End Miss Br, I-10 W End of Br 290-W End of LA 415, West Baton Rouge & Iberville Parishes, LA: Surveyor-in-Charge for complete topographic survey and Mobile LiDAR of approximately 18.3 miles along I-10, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.
12/16–12/19	Retainer Contract No. 4400009387 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07, LA: Surveyor performing Topographic Surveys for LA DOTD. This contract showcases Mr. Wilson's familiarity with the process of managing LADOTD Survey IDIQ Task Orders from beginning to end. This Retainer contract included a total of 5 separate Task Orders for 3 State Highway Projects. Survey tasks included Conventional Topo, Hydrographic Survey, LiDAR Survey, and producing Existing Drainage Maps.
01/18–06/19	Contract 4400012323- H.004100- I-10 LA 415 to Essen Lane to I-10 and I-12, East and West Baton Rouge Parishes: LA DOTD- Survey Manager for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane. Project required Forte and Tablada, Inc. to mobilize up to 5 Survey Crews to meet phased deadlines.

Section

17

AECOM **Frederick Douglass Memorial Bridge** Washington, DC

Services: Lead design and Engineer of Record for this award-winning bridge. Select awards include:

- ▶ Bridge of the Year, American Institute of Steel Construction (AISC), 2024
- ▶ Steel Bridge Major Span Award, AISC, 2024
- ▶ Grand Award, American Council of Engineering Companies, 2023
- ▶ Award of Merit, Engineering News Record – Mid Atlantic, 2023

Delivering a better world

17. Firm Experience

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*		Geotech, Bridge	
Project Name	Forest City Landslide SDDOT Rt. 212 Missouri River Bridge			Firm responsibility (prime or sub?)		Prime
Project Number	88C2243B	Owner's name		South Dakota Department of Transportation		
Project Location	Gettysburg, South Dakota		Owner's Project Manager		Kevin Griese, P.E.,	
Owner's Address, Phone, Email		700 East Broadway Ave., Pierre SD 57501; 605.773.3870; kevin.griese@state.sd.us				
Services Commenced by This Firm (mm/yy)		04/88	Total Consultant Contract Cost (\$1,000's)			\$3,000
Services Completed by This Firm (mm/yy)		12/06	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$3,000

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Landslide movements 30+ yrs
- ▶ Structure was saved not relocated
- ▶ Landslide stabilized excavation
- ▶ Approach embankment stabilized by concrete shear pins
- ▶ Structure modifications

The Forest City Bridge, spanning 4,600 feet, was built in 1958 to carry SDDOT Route 212 over the Oahe Reservoir, formed by the Oahe Dam on the Missouri River, 60 miles north of Pierre, South Dakota. By 1962, structural distress appeared as the reservoir filled, and by 1968, pavement cracking indicated movement in the southern approach embankment due to the Forest City Landslide, one of North America's largest at 75 million cubic yards. Movement persisted for over 40 years.

In 1988, a feasibility study explored stabilization and relocation options for the crossing. The landslide caused northward movement of the embankment, piers, abutment, and foundation piling, driven by bentonitic seams in the Pierre Shale saturated by rising reservoir levels. Relocation was deemed impractical due to similar geological conditions and higher costs, leading to stabilization efforts costing \$16 million versus \$52 million for relocation.

AECOM TEAM: John Volk, Dick Davidson, Nick Corda

Monitoring from 1988 to 1992 led to the removal of 8 million cubic yards of material above the bridge approach, reducing movement from 2–4 inches per year to less than ¼ inch annually, though the northern approach embankment continued moving at 2–5 inches per year and was stabilized with 120 concrete shear pins 3 ft x 9 ft to depths of 90–140 feet.



17. Firm Experience

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*		Road, Bridge, Traffic, Planning, Environmental
Project Name	Gordie Howe International Bridge D-B Project			Firm responsibility (prime or sub?)	Prime
Project Number	82194	Owner's name	Windsor-Detroit Bridge Authority		
Project Location	Windsor, ON, Canada to Detroit, MI, U.S.		Owner's Project Manager	Gang Jiao	
Owner's Address, Phone, Email	35 Prospect Avenue, Windsor, ON N9C 3G3; 313.518.2099; gjiao@bnausjv.com				
Services Commenced by This Firm (mm/yy)	07/18	Total Consultant Contract Cost (\$1,000's)			\$164,300
Services Completed by This Firm (mm/yy)	Present	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$123,225

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Line & grade for road & bridge
- ▶ Cable-stayed main span
- ▶ Bridge alternatives analysis
- ▶ Hydrology & hydraulics
- ▶ Traffic analysis & modeling

The Gordie Howe International Bridge (GHIB) is a landmark infrastructure project that links Windsor, Ontario, to Detroit, Michigan. AECOM has been instrumental in bringing this once-in-a-generation initiative to life, serving as the lead designer and design manager. The bridge itself is an impressive six-lane, cable-stayed structure stretching 1.5 miles, with a main span of 2,800 feet and soaring towers reaching 722 feet. Designed to last 125 years, it also features pedestrian trails and the flexibility to accommodate future expansion. The project includes the development of two major Ports of Entry (POEs). On the Canadian side, the POE is the largest along the Canada–U.S. border, housing inspection facilities, toll operations, and maintenance buildings. Across the river, the U.S. POE is among the largest in North America, with facilities for inspections, commercial vehicle control, and pedestrian access.

AECOM played a key role in the project, designing the bridge and ports of entry with a focus on long-term durability and a 125-year service life. The

AECOM TEAM: Derek Chisholm , Kenneth Butler, Bob Anderson , Steve Stroh, John Volk, Nick Corda and Steve Matty

bridge includes the world's longest composite steel and concrete deck; 1.5 miles, and features advanced tolling and traffic systems. AECOM also led community engagement efforts to create a benefits plan promoting local economic, social, and environmental opportunities.

AECOM's was the EOR for the new bridge and as lead designer provided detailed design and engineering of roadways, drainage, and structures, to coordinating utilities—all while meeting both Canadian and U.S. standards. Sustainability is at the heart of the project, with goals set for Silver Envision and LEED certifications, as well as lifecycle-optimized infrastructure. The project also integrates advanced environmental practices, including ISO 14001:2015-certified management systems and ongoing air quality monitoring.

✓ **Envision Platinum Award, from the Institute for Sustainable Infrastructure**



17. Firm Experience

Firm Name	Burns Cooley Dennis, Inc.		Past Performance Evaluation Discipline(s)*		Geotech	
Project Name	I-20 Mississippi River Bridge Pier Movements			Firm responsibility (prime or sub?)		Sub
Project Number	110231 & 200484	Owner's name		Modjeski and Masters		
Project Location	Vicksburg, MS		Owner's Project Manager		Zolan Prucz	
Owner's Address, Phone, Email		1055 St. Charles Ave, New Orleans, LA, 504-524-4344, zprucz@modjeski.com				
Services Commenced by This Firm (mm/yy)		11/01	Total Consultant Contract Cost (\$1,000's)			\$2,750
Services Completed by This Firm (mm/yy)		4/24	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$841

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Geotechnical Analysis on the I-20 Vicksburg bridge
- ▶ Landslide and pier movements

The I-20 Mississippi River Bridge, built in the late 1960s and early 1970s, began showing structural movement in the early 2000s. Between March 2000 and March 2002, Piers E-1 and E-2 experienced approximately four inches of lateral displacement. To investigate and mitigate the issue, LADOTD engaged Modjeski and Masters, Inc., with Burns Cooley Dennis, Inc. (BCD) providing geotechnical and geological support as a sub from 2001 to 2015.

BCD conducted a comprehensive review of available subsurface and geologic data, supplemented by 14 new soil borings. They installed 12 slope inclinometer casings—three in the river and nine along the bank—to monitor ground movement. In-river inclinometer data, retrieved remotely, revealed movement at depths of 100 to 130 feet.

Field mapping of limestone outcrops near the river and Pier E-1 helped identify historical ground shifts, with boring data revealing 40 to 50 feet of vertical displacement in nearby geologic layers. These findings indicated that an ancient landslide beneath the bridge had likely been reactivated.

BURNS COOLEY DENNIS TEAM: Alexis Templeton

This conclusion, supported by subsurface displacement data and bridge monitoring, informed the evaluation of mitigation strategies.

Since 2011, BCD has also drilled seven additional borings for Ardaman and Associates, Inc. near Piers E-1 and E-2, some reaching depths of 250 feet. Shape Accelerometer Arrays (SAAs) were installed in most to continue monitoring ground movement and support ongoing stabilization planning.



17. Firm Experience

Firm Name	Huval & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project Name	Old Mississippi River Railroad Bridge and Tunnel (Old U.S. 80)			Firm responsibility (prime or sub?)	Prime
Project Number	NA	Owner's name	Vicksburg Bridge Commission of Warren County		
Project Location	Vicksburg, MS		Owner's Project Manager	Herman Smith	
Owner's Address, Phone, Email	4160 Washington Street Vicksburg, MS 39180; 601.636.0881; hermans@co.warren.ms.us				
Services Commenced by This Firm (mm/yy)	11/18	Total Consultant Contract Cost (\$1,000's)			\$801
Services Completed by This Firm (mm/yy)	Present	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$702

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Bridge is immediately upstream of I-20 bridge with similar geotechnical and structural
- ▶ Bridge preservation repair techniques

Huval & Associates, Inc. (HUVAL) provides ongoing bridge engineering and inspection services for the historic Old Mississippi River Bridge in Vicksburg under a master contract with the Vicksburg Bridge Commission. This 1.6-mile combination railroad and highway bridge, opened in 1930, was originally designed to carry one track of AREMA Cooper E60 rail traffic and two lanes of AASHTO H15 highway traffic. Today, it serves as a vital structure with unique engineering and preservation challenges.

HUVAL is responsible for developing structural maintenance and repair plans for the steel through-truss, approach deck girder spans, and a concrete tunnel structure. Services include the design of repairs, construction documents, constructability reviews, and cost estimates for key activities such as structural steel replacement, girder strengthening, vertical jacking of truss spans, and concrete rehabilitation at piers. To address continued large-scale foundation movement, HUVAL performed a full structural analysis of the truss and approach spans using advanced 3D modeling software. State-

HUVAL AND ASSOCIATES TEAM: Davis S. Huval, Rudy McLellan, Colby Guidry

of-the-art repair techniques are applied where necessary to maintain structural integrity and prolong the service life of the bridge.

HUVAL also performs annual inspections across the entire bridge and tunnel, evaluating overall condition and recommending repairs as needed. A man lift is used to access and assess fatigue-prone truss members, especially those classified under fatigue category "E." These inspections are essential to tracking wear and deterioration in hard-to-reach areas. In addition, HUVAL conducts special inspections after any collision or vessel impact. These include taking control measurements at critical joints, bearings, and piers throughout the year. Data is compared against previous benchmarks to monitor structural movement and detect early signs of instability, ensuring continued safety and performance.



17. Firm Experience

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*		Road, Bridge, Planning
Project Name	Pearl Harbor Memorial Bridge, I-95 over the Quinnipiac River			Firm responsibility (prime or sub?)	Prime
Project Number	AECOM: F100001830 / F100002150 / 60401263 / 60406858 / 60408940 / 60409990 / 60410303 / 60439206 / 60410325 / 60483188 / 60409955 / 60509304 / 60615160 / 60639137 / 60658283 / 60677668 / 60686780	Owner's name	Connecticut Department of Transportation		
Project Location	New Haven, CT		Owner's Project Manager	Bao K. Chuong	
Owner's Address, Phone, Email	2800 Berlin Turnpike Newington, CT 06111; 860.594.3316; bau.chuong@ct.gov				
Services Commenced by This Firm (mm/yy)	01/95	Total Consultant Contract Cost (\$1,000's)			\$49,430
Services Completed by This Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$40,756

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Cable-stayed design (Extradosed)
- ▶ Line & grade for road & bridge
- ▶ Bridge alternatives analysis
- ▶ Traffic analysis & modeling

The Pearl Harbor Memorial Bridge, replaced the aging I-95 span over the Quinnipiac River, it is the first extradosed prestressed bridge in the U.S. Designed to meet structural, navigational, and airspace constraints. It offers a signature aesthetic similar to a cable-stayed bridge but with greater cost efficiency for its 515-foot main span. The design garnered significant public interest and was designated as a memorial by the Connecticut legislature.

AECOM, was initially retained for concept development and evaluated multiple bridge types before selecting the extradosed option. This process included a joint scanning tour to Japan with CTDOT and FHWA to study the innovative structure. Final design began in 2001 with AECOM leading multiple project contracts. The main span, approach spans, utilities, drainage, traffic staging, permitting, and directional drilling are below the river.

AECOM TEAM: Bob Anderson, Steve Stroh

The bridge features twin decks, each with five lanes and full shoulders, constructed in stages—northbound lanes were built first while traffic used the existing bridge, followed by demolition and southbound construction. Two design alternatives, a concrete box girder and a steel composite option, were competitively bid, with concrete chosen for cost efficiency. Foundations consist of 2.5m drilled shafts reaching depths over 60m.

Construction began in 2009 with the northbound side opening ahead of the southbound span. AECOM also provided construction support, including field services, engineering reviews, and the development of a Maintenance and Inspection Manual.

✓ 2017 ASBI Bridge Award of Excellence 2017 ASCE Outstanding Civil Engineering Achievement Award Finalist 2013 Roads & Bridges Magazine Top 10 Bridges



17. Firm Experience

Firm Name	Ardaman & Associates, Inc.		Past Performance Evaluation Discipline(s)*		Geotech	
Project Name	I-20 Mississippi River Bridge Geotechnical Review			Firm responsibility (prime or sub?)		Prime
Project Number	SP No. H.004646 09-L1049,H.010603.6 13-3720, H.010612.6 20-3729, H.004647.6 22-3753, 24-3707	Owner's name	Louisiana Department of Transportation and Development			
Project Location	Madison Parish, LA		Owner's Project Manager	Chris Nickel		
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA; 225.379.1100; timoth.nickel@la.gov				
Services Commenced by This Firm (mm/yy)		10/09	Total Consultant Contract Cost (\$1,000's)			\$10,881
Services Completed by This Firm (mm/yy)		Present	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$10,881

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Direct geotechnical experience on I-20 Mississippi River Bridge
- ▶ Access by site reconnaissance due to difficult access
- ▶ Geotech subsurface investigation
- ▶ Coordination with government Agencies
- ▶ Evaluate various potential bridge crossing locations

Ardaman was retained to conduct a geotechnical study at the I-20 Mississippi River Bridge to identify technically feasible remedial solutions for ongoing ground movements, particularly near the east abutment. The issue was first noted during a 2001 inspection, and although several consultants were engaged by the Mississippi DOT over the years, no viable solution had previously been found.

Ardaman began by thoroughly reviewing all prior slope stability evaluations and recommendations. Based on this, the team developed a refined geotechnical site characterization plan for the bluff and bank area to support advanced analysis. Drilling operations were performed both on land and by barge in highly challenging access conditions. These efforts yielded extremely sensitive soil samples, including prehistoric shear planes. Additionally, Ardaman installed an array of geotechnical monitoring instruments, such as Shape Accelerometer Arrays, inclinometers, and

ARDAMAN AND ASSOCIATES TEAM: Megan Bourgeois, Robert Jewell

vibrating wire piezometers. **The engineering analysis included see page and drawdown assessments, as well as both equilibrium and finite element slope stability modeling. Based on these findings, Ardaman developed a comprehensive slope stabilization design, a construction remediation strategy, and a long-term monitoring program to address the instability issues affecting the I-20 bridge.**

Currently, Ardaman is managing the next phase of the project, which involves upgrading the instrumentation communication system and implementing continuous monitoring of geotechnical data. This phase also includes periodic site inspections and topographic surveys to track changes in ground movement and assess the ongoing stability of the bluff area.



17. Firm Experience

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*		Road, Bridge, Traffic, Planning, Environmental
Project Name	Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement			Firm responsibility (prime or sub?)	Prime
Project Number	MDTA NB 0543-0000	Owner's name	Maryland Transportation Authority		
Project Location	Newburg, MD and Dahlgren, VA		Owner's Project Manager	Brian Wolfe	
Owner's Address, Phone, Email	8019 Corporate Drive, Suite F, Nottingham, MD 21236; (443) 915-0851; bwolfe3@mdta.state.md.us				
Services Commenced by This Firm (mm/yy)	11/19	Total Consultant Contract Cost (\$1,000's)			\$32,800
Services Completed by This Firm (mm/yy)	10/22	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$22,304

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Bridge alternatives analysis
- ▶ Line & grade for road & bridge
- ▶ Hydrology & hydraulics
- ▶ Traffic analysis & modeling

The project replaced the outdated 1.9-mile, two-lane span over the Potomac River with a modern, 61-foot-wide, four-lane concrete and steel bridge. Originally opened in 1940, the existing bridge had become a major bottleneck along US Route 301, where four lanes of traffic merged into two, causing daily delays for around 18,000 vehicles. The new bridge provides twice the traffic capacity and includes shoulders on each side to improve safety and facilitate access for emergency response, maintenance, and wideload vehicles. It also provides a navigational vertical clearance of 135 feet, enabling tall ships to pass beneath, and more gradual vertical grades to allow vehicles to maintain a safe, consistent speed. The project also included construction of approximately 0.5 miles of roadway realignment on both sides of the bridge, conversion to all-electronic tolling, and demolition of the existing bridge, parts of which were converted into an artificial reef in the Chesapeake Bay watershed.

The new Nice/Middleton Bridge doubled traffic capacity and significantly improve safety with wider lanes, shoulders, a barrier-separated median, bicycle-friendly joints, and modern lighting,

AECOM TEAM: Kenneth Butler, Joe Klein, Nick Corda, Steve Matty

while also supporting smoother grades for trucks and emergency access. AECOM's efficient design includes a 9,970-foot structure with low-level, high-level, and channel spans, all-electronic tolling, and environmentally mindful construction methods, including pile-supported foundations, haunched girders, and reuse of the old bridge as an artificial reef.

AECOM, as lead designer, mobilized a team of over 60 professionals to deliver comprehensive design services for the project. Working closely with the design-build contractor and MDTA from a shared project office, AECOM helped refine the design through constructability and value engineering reviews. Their collaboration was key to achieving MDTA's goals for cost, schedule, safety, durability, and minimal public disruption.

✓ **The new bridge was opened to traffic two months ahead of schedule.**



17. Firm Experience

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Planning, Environmental
Project Name	I-49 Lafayette Connector Supplemental EIS, CSS, and Structural Design		Firm responsibility (prime or sub?)	Prime
Project Number	H.004273	Owner's name	Louisiana Department of Transportation and Development	
Project Location	Lafayette, LA		Owner's Project Manager	Tim Nickel, PE
Owner's Address, Phone, Email		PO Box 94245, Baton Rouge, LA 70804-9245; 225.379.1110; timothy.nickel@la.gov		
Services Commenced by This Firm (mm/yy)	07/15	Total Consultant Contract Cost (\$1,000's)		\$49,000
Services Completed by This Firm (mm/yy)	Present	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$12,000

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Alternatives included a complex design including a cable -stayed structure
- ▶ Led air & noise modeling
- ▶ Led Section 106 process
- ▶ Led EIS and supplemental EIS for LADOTD

Proposed PM Derek Chisholm led this 5.5-mile, \$1.3 billion project, one of the largest ever undertaken by the Louisiana Department of Transportation and Development (LADOTD). AECOM serves as a key consultant, leading structural design and supporting tasks such as supplemental EIS evaluations, cultural resource assessments, Section 106 consultation, Standing Structures Inventory updates, railroad coordination, and project implementation planning. AECOM is also guiding the context-sensitive solutions (CSS) design process.

As structural lead, AECOM is designing a 2-mile elevated six-lane viaduct with signature bridge components, two grade-separated interchanges (at Kaliste-Saloom and University/Surrey), and major bridges over the Vermilion River. The team is also developing more than 25 retaining and noise wall structures and managing conceptual railroad designs for two grade separations involving BNSF and LDOR, led by AECOM's railroad coordinator, Jonathan McDowell.

AECOM TEAM: Derek Chisholm, Louis Costa, Gary Marji, Daniel Boyd, Gregory Trahan, Tom Herzog, Jonathan Vavasseur, Tom Hunter, Jonathan McDowell

The project began with a re-evaluation of the 2003 Record of Decision (ROD) and adopted a CSS-focused preliminary design approach. Through stakeholder engagement, necessary modifications to the selected alternative were identified and refined through a Concept Refinement Process (CRP)—similar to a PEL study. These refinements were evaluated in a Supplemental EIS prepared by AECOM.

Current efforts include completing the final supplemental EIS, continued design refinements, and coordination with stakeholders to ensure the project balances transportation goals with community and environmental considerations.



17. Firm Experience

Firm Name	Dan Brown and Associates, LLC		Past Performance Evaluation Discipline(s)*	Geotech	
Project Name	I-70 Stan Musial Veteran's Memorial Mississippi River Bridge			Firm responsibility (prime or sub?)	Sub
Project Number	J6I0984	Owner's name	Missouri Department of Transportation		
Project Location	St. Louis, MO		Owner's Project Manager	Jennifer Wade, P.E.	
Owner's Address, Phone, Email	1590 Woodlake Drive, Chesterfield, MO 63017; 314.624.7462; jennifer.wade@modot.mo.gov				
Services Commenced by This Firm (mm/yy)	01/09	Total Consultant Contract Cost (\$1,000's)			\$66,000
Services Completed by This Firm (mm/yy)	12/13	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$200

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Foundation design for cable-stayed bridge crossing of Mississippi River
- ▶ Major bridge of navigable waterway
- ▶ Kinematic soil loading on new foundations by moving soil
- ▶ Enormous vessel collision forces
- ▶ Enormous seismic demand
- ▶ Deep potential scour
- ▶ Massive drilled shaft foundations in the AR River

As part of a confidential pre-bid Alternative Technical Concept (ATC) for our contractor client, DBA re-designed the advertised baseline foundation plan for this 1,500-ft main span cable-stayed bridge spanning the Mississippi River. Our ATC foundation design was ultimately accepted and constructed. The re-design revised the drilled shaft foundations by increasing the diameters from 8-ft to 11-ft, reducing the number of drilled shafts by more than half, reducing the rock socket lengths by relying on the contributions of both side and base resistance, reducing the plan dimension of the two coffercells, reducing the plan dimension of the two pile caps, and proving the design by performing a world-record bi-directional axial load test on a full-scale, non-production demonstration/test shaft.

DAN BROWN AND ASSOCIATES TEAM: Paul Axel, Dan Brown

Reductions in the size of the coffercells and pile caps produced benefits beyond the material savings in that the reduction in mass substantially reduced the inertial demands during extreme event seismic loading from the nearby New Madrid fault system. The associated reduction in cost, schedule, and risk exposure by implementing our ATC foundation redesign were enormous.



17. Firm Experience

Firm Name	Marmillion Gray Media, Inc.		Past Performance Evaluation Discipline(s)*	Planning	
Project Name	Baton Rouge Loop Tier 1 EIS			Firm responsibility (prime or sub?)	Sub
Project Number	CAEA No. E-2009-001	Owner's name	East Baton Rouge Parish/Capital Area Expressway Authority		
Project Location	Capital Region (5 parishes)		Owner's Project Manager	Bryan Harmon	
Owner's Address, Phone, Email		P.O. Box 1471, Baton Rouge, LA 70821; 225.389.3158; fraiford@brla.gov			
Services Commenced by This Firm (mm/yy)		02/09	Total Consultant Contract Cost (\$1,000's)		Unknown
Services Completed by This Firm (mm/yy)		03/16	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$291

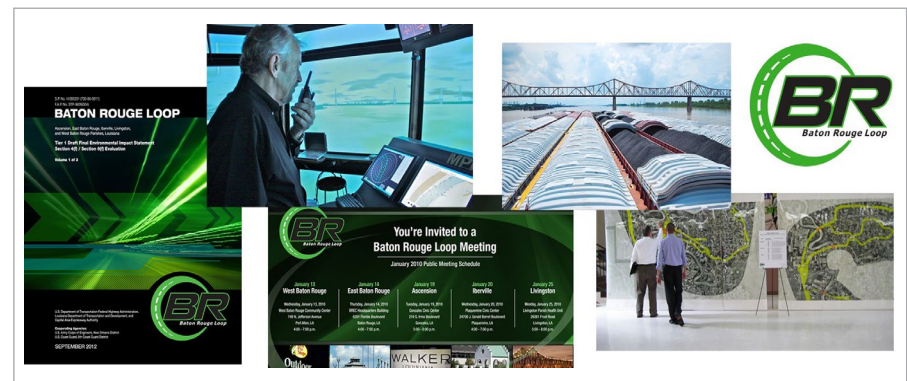
RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ LA Public Involvement for a similar NEPA study

Marmillion Gray Media provided comprehensive public involvement services for the Baton Rouge Loop Tier 1 Environmental Impact Statement (EIS), spanning five Capital Region parishes. Marmillion Gray worked closely with AECOM and other prime team partners in the public and stakeholder involvement process managed stakeholder and advisory committee coordination, media relations, database management, and the production of project newsletters, videos, and presentations. Public meetings, hearings, and comment periods were facilitated in compliance with NEPA engagement guidelines. The outreach effort also supported studies related to potential Mississippi River crossings.

MARMILLION/GRAY MEDIA TEAM: Rannah Gray, Lisa Noble

Rannah Gray and Lisa Noble led all public and stakeholder engagement efforts, including meetings, hearings, media coordination, and briefings with elected officials. They also conducted ongoing presentations to the Capital Region legislative delegation, advocacy groups, and the FHWA. Sarah Powell created the project branding and designed public meeting materials, collaborating with Rannah to develop informational videos that effectively communicated the project's purpose and need to the broader community.



17. Firm Experience

Firm Name	Forte & Tablada Inc.		Past Performance Evaluation Discipline(s)*		Survey	
Project Name	Crescent City Connection Bridges Hydrographic Survey				Firm responsibility (prime or sub?)	Sub
Project Number	NA	Owner's name		Moffatt & Nichol		
Project Location	New Orleans, LA		Owner's Project Manager		Garth Presgrave	
Owner's Address, Phone, Email		301 Main St #800, Baton Rouge, LA 70802; 225.610.1944; gpresgrave@moffattnichol.com				
Services Commenced by This Firm (mm/yy)		06/2022	Total Consultant Contract Cost (\$1,000's)			Unknown
Services Completed by This Firm (mm/yy)		07/2022	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$19

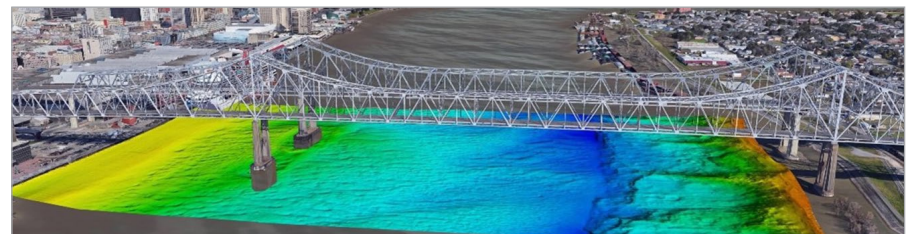
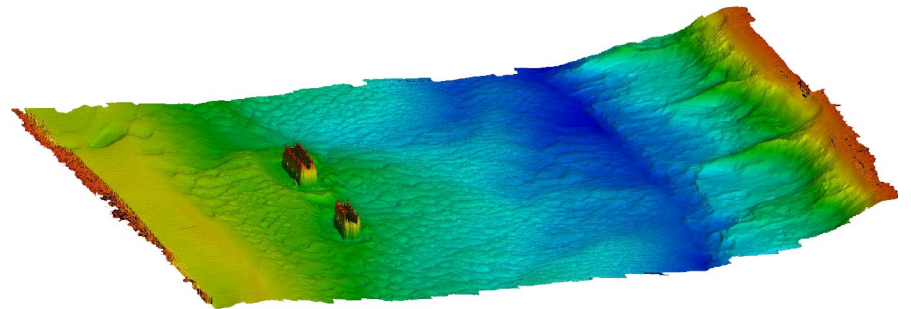
RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Hydrographic survey of Mississippi River
- ▶ Multibeam survey of underwater bridge piers
- ▶ Surface model sonar soundings
- ▶ Scour analysis of Mississippi River Bridge
- ▶ Monitoring and comparative analysis of underwater conditions

Forte and Tablada conducted a multibeam hydrographic survey of the Crescent City Connection bridges in New Orleans, Louisiana. The project focused on documenting two piers, identifying scour and debris, and generating sounding tables at specific intervals both upstream and downstream of each pier.

To accurately capture vertical details of the pier structures, the R2Sonic 2022 multibeam sonar was tilted 30 degrees, enabling data collection from the waterline down. The survey covered approximately 350 feet upstream and downstream of each pier, providing a detailed and comprehensive view of the riverbed conditions surrounding the bridge.

FORTE & TABLADA TEAM: Brad Holleman



17. Firm Experience

Firm Name	ARCADIS		Past Performance Evaluation Discipline(s)*	Road, Bridge, Traffic, Environmental, Planning	
Project Name	US 90 Chef Menteur Bridge and Approaches Environmental Assessment			Firm responsibility (prime or sub?)	Prime
Project Number	H.000263.2	Owner's name	Louisiana Department of Transportation and Development		
Project Location	Orleans Parish, LA		Owner's Project Manager	Nikki Leon/Irina Sorset	
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802; 225 242 4514; nikki.leon@la.gov, irina.sorset@la.gov				
Services Commenced by This Firm (mm/yy)	08/11	Total Consultant Contract Cost (\$1,000's)			\$1,118
Services Completed by This Firm (mm/yy)	11/14	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$879

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Environmental assessment for navigable waterway crossing
- ▶ Stakeholder & agency coordination
- ▶ Alternatives development
- ▶ Public involvement
- ▶ Geometric design of roadway and Bridge
- ▶ Local Access Directions
- ▶ Construction Cost Estimate

Arcadis was contracted by LADOTD to prepare preliminary design layouts for the replacement of the existing US 90 swing span bridge over Chef Menteur Pass in Orleans Parish, as part of a NEPA Environmental Assessment. The study evaluated both movable and fixed span alternatives, along with three potential alignments, all developed in accordance with LADOTD Design Guidelines, EDSMs, and the Road and Bridge Design Manuals.

The project aimed to reduce impacts to surrounding communities and environmentally sensitive areas, including the Venetian Isles Subdivision, Fort Macomb, adjacent state parklands, submerged and terrestrial archaeological sites, and the Bayou Sauvage National Wildlife Refuge. Engineering complexities were driven by strong tidal currents, severe scour conditions, and a high risk of vessel collisions due to narrow navigation clearances.

ARCADIS TEAM: Lauren Bolstad, Jan Hughes, Jason Morrell

To guide decision-making, Arcadis prioritized early identification of key factors such as updated post-Katrina vessel clearance requirements, bathymetric and remote sensing data collection, and coordination on design criteria tailored to the area's unique navigational and environmental context. The project also integrated feedback from bicycle advocacy groups under the LADOTD Complete Streets Policy, recognizing US 90 as a critical bicycle corridor between New Orleans and the Mississippi state line.

Access management measures were introduced to improve connectivity and safety, including the use of shared access points and reduced driveway entries for residential, commercial, and recreational properties. Arcadis led an aggressive outreach effort, conducting nearly 10 agency and stakeholder meetings within the first two months to ensure early coordination, transparency, and community engagement throughout the project development process.



17. Firm Experience

Firm Name	Huval & Associates Inc.		Past Performance Evaluation Discipline(s)*		Bridge
Project Name	Jimmie Davis Bridge (LA 511- Design-Build Project)			Firm responsibility (prime or sub?)	Prime
Project Number	H.001779	Owner's name	Louisiana DOTD		
Project Location	Shreveport, Louisiana (Bossier / Caddo Parish)		Owner's Project Manager	Catherine Mastin, PE	
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70804; 225.379.1652; catherine.mastin@la.gov			
Services Commenced by This Firm (mm/yy)	03/23	Total Consultant Contract Cost (\$1,000's)			\$12,950
Services Completed by This Firm (mm/yy)	Present	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$5,640

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

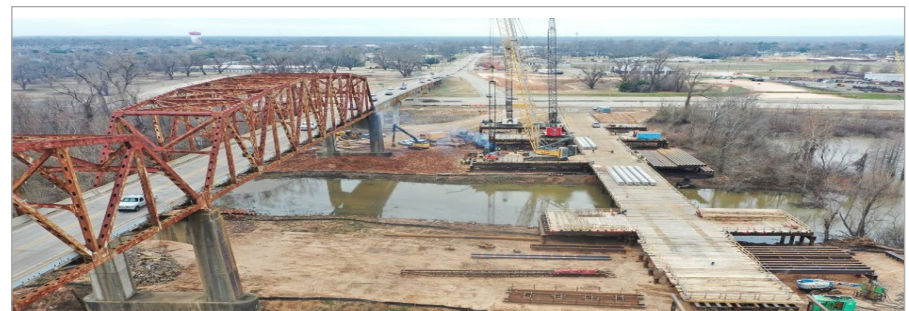
- ▶ Major bridge structure over a navigable waterway
- ▶ Repair techniques for bridge preservation

Huval and Associates, along with James Construction as the Contractor, are the main design engineers for the project to construct the new four-lane bridge across the Red River in Bossier / Caddo Parish. The project includes the reconstruction of nearly two miles of LA 511 into a modern, four-lane median-divided highway. The project encompasses the creation of full access interchange connections at two key junctions: Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway. These interchanges will seamlessly integrate with the upgraded LA 511.

A critical component of the project is the temporary work platforms designed by Huval. These platforms are installed on both sides of the Red River, providing stable and secure foundations for cranes and other heavy equipment. These support platforms will enable efficient and safe construction across the river and the approaches, while also supporting the dynamic loads of construction activities.

HUVAL TEAM: Colby Guidry

The initiative also includes the transformation of the existing Jimmie Davis Bridge into a Linear Park. This includes the full rehabilitation of the existing truss bridge that includes deck and barrier replacement, girders and truss repairs, bearing replacement and rehabilitation and pier and bent repairs. Under the bridge rehabilitation, the structure shall be retrofitted to provide vibrant public space, featuring new multi-use paths for pedestrians and cyclists. Elevated ramps will connect these paths, providing seamless access to the heart of the Linear Park. The design portion of this project is 95% complete.



17. Firm Experience

Firm Name	ARCADIS		Past Performance Evaluation Discipline(s)*	Road, Bridge, Traffic, Environmental
Project Name	US 165 Connector and Ouachita River Bridge EIS, Line and Grade and Toll Study		Firm responsibility (prime or sub?)	Prime
Project Number	4400004807 / H.004782	Owner's name	Louisiana Department of Transportation and Development	
Project Location	Orleans Parish, LA		Owner's Project Manager	Rhonda Braud
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802; 225.242.4532; rhonda.braud@la.gov			
Services Commenced by This Firm (mm/yy)	05/12	Total Consultant Contract Cost (\$1,000's)		\$1,981
Services Completed by This Firm (mm/yy)	11/22	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$1,363

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ✓ Traffic Engineering & Analysis
- ✓ Impacts to surrounding wetlands
- ✓ Extensive Alternatives analysis and development
- ✓ Wetland Delineation
- ✓ Biological Resources
- ✓ Survey/Report

Discussed for over 40 years, the proposed "4th Bridge" in Monroe aims to improve transportation connectivity in the growing northern region of Ouachita Parish. The bridge would link LA 143 and US 165—two major north-south routes serving Ouachita, Union, and Morehouse parishes—and provide a segment of independent utility for a future bypass around Monroe and West Monroe.

Due to fiscal constraints, Arcadis is evaluating phased construction strategies and alternative methods to reduce costs and environmental impacts. A primary challenge is identifying the least environmentally damaging and most practicable crossing of the Ouachita River, which is flanked by the ecologically sensitive Chauvin Bottomland Hardwood Swamp and features strong currents that restrict pier placement.

AECOM TEAM: David Fuls; Akhil Chauhan; Josh Chatelain; Justin Maderia

The project team developed 183 potential alignments across three viable river crossing locations. Using GIS-based trade-off analyses, alternatives were screened for their ability to avoid and minimize impacts to wetlands and the built environment. This process led to the selection of three priority corridors for detailed analysis.

Further evaluations included field studies of existing and projected traffic noise (using TNM 2.5 modeling), air quality assessments, and the feasibility of noise barriers. A biological survey confirmed wetland types, identified sensitive habitats, and documented the presence of significant trees and federally recognized species, such as the Louisiana black bear, bald eagle, and red-cockaded woodpecker. These areas were designated for avoidance during route planning to minimize ecological disruption.



17. Firm Experience

Firm Name	Locus, LLC		Past Performance Evaluation Discipline(s)*	Other (Navigation)	
Project Name	Navigation Simulation for Expansion of the Huey P. Long Bridge			Firm responsibility (prime or sub?)	Prime
Project Number	NA	Owner's name	NOBRA Pilots		
Project Location	Covington, LA		Owner's Project Manager	Capt. Chris Rieder, Vice President, NOBRA Pilots	
Owner's Address, Phone, Email	New Orleans Baton Rouge Steamship Pilots Association, 2805 Harvard Avenue, Suite 102, Metairie, LA 70006; 504.832.8030; linda@nobrapilots.net				
Services Commenced by This Firm (mm/yy)	10/12	Total Consultant Contract Cost (\$1,000's)			\$100
Services Completed by This Firm (mm/yy)	04/13	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$60

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major Bridge of navigable waterway
- ▶ Performed navigation study and vessel simulations for construction associated with the Huey P Long Bridge substructure on the MS River Mississippi River

LOCUS Research for Expansion of the Huey P. Long Bridge. In 2012-2013 LOCUS conducted research simulations on behalf of the NOBRA Pilots to coordinate river closures due to construction of the Huey P. Long Bridge expansion project, in the Avondale area, New Orleans, Louisiana. LOCUS Provided marine databases, ship models and reports to support meetings with US Coast Guard Vessel Traffic Service, and local marine stakeholders. The project resulted in greatly improved coordination during the disruptions and closures of the river and subsequent impact to navigation.

Findings and lessons learned from the simulation runs were collected and inputted to create a comprehensive and detailed evaluation report, written by Technical & Analysis Lead.

LOCUS TEAM: George Burkley, Fernando Lagunes



17. Firm Experience

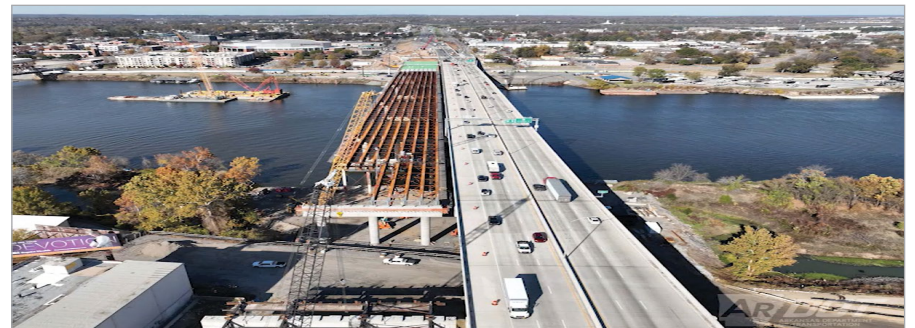
Firm Name	Dan Brown and Associates, LLC		Past Performance Evaluation Discipline(s)*		Geotech	
Project Name	30 Crossing Project			Firm responsibility (prime or sub?)		Sub
Project Number	CA0602	Owner's name		Arkansas Department of Transportation		
Project Location	Little Rock, AR		Owner's Project Manager		Mark Trickey, P.E.	
Owner's Address, Phone, Email		10324 Interstate 30, Little Rock, AR 72209; 501.569.2000; mark.trickey@ardot.gov				
Services Commenced by This Firm (mm/yy)		12/18	Total Consultant Contract Cost (\$1,000's)			\$100,000
Services Completed by This Firm (mm/yy)		03/23	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$1,000

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Major bridge of navigable waterway
- ▶ Kinematic soil loading on new foundations by moving soil
- ▶ Enormous vessel collision forces
- ▶ Enormous seismic demand
- ▶ Deep potential scour
- ▶ Massive drilled shaft foundations in the AR River

DBA provided geotechnical and foundation engineering services for the new twin bridges carrying I-30 across the Arkansas River. Bridge foundations include large diameter drilled shafts designed to resist extreme event vessel collision demands as well as kinematic forces from spreading soil following an extreme seismic event emanating from the New Madrid fault system. A unique waterline footing concept was also instituted to avoid traditional coffercells, thereby reducing exposure to construction risk, reducing schedule impacts, reducing cost, and reducing predicted scour. Finally, ground improvement utilizing a column-supported embankment on driven timber piles was also designed and constructed to protect the abutment and embankment from damage during, and shortly after, an extreme seismic event.

DAN BROWN AND ASSOCIATES TEAM: Paul Axel, Dan Brown



17. Firm Experience

Firm Name	ARCADIS		Past Performance Evaluation Discipline(s)*	Road, Bridge, Traffic, Environmental
Project Name	I-49 SEIS Richoc to Berwick			Firm responsibility (prime or sub?) Prime
Project Number	H.011328	Owner's name	Louisiana Department of Transportation and Development	
Project Location	Bossier and Caddo Parishes, LA		Owner's Project Manager	Corey Landry
Owner's Address, Phone, Email	1201 Capitol Access Rd., Room 201E, Baton Rouge, LA 70802; 225.379.1889; corey.landry@la.gov			
Services Commenced by This Firm (mm/yy)	02/17	Total Consultant Contract Cost (\$1,000's)		\$2,593
Services Completed by This Firm (mm/yy)	Present	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$2,080

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ NEPA SEIS Environmental Documentation
- ▶ Wetlands and Other Waters Survey and Delineation
- ▶ Threatened and Endangered Species
- ▶ Permits Evaluation
- ▶ Tier 1 and 2 Traffic Analysis

Arcadis is preparing a Supplemental Environmental Impact Statement (SEIS) for LADOTD along a 10-mile segment of Future I-49 South between Ricohoc and Berwick in St. Mary Parish. This follows a previously completed Environmental Impact Statement and Record of Decision (ROD) for the corridor. The SEIS aims to explore alternative solutions that offer a more practical and cost-effective approach to upgrading this segment to interstate standards.

Currently, Arcadis is conducting the Traffic Analysis phase, which includes evaluating roadway geometry, analyzing existing conditions, and assessing the potential impacts of each proposed alternative. Key considerations include right-of-way needs, socio-economic effects, access management, local connectivity, railroad interactions, impacts to the built environment, and projected construction costs. This analysis is critical to determining the feasibility of each alternative. Following the traffic phase, the project

ARCADIS TEAM: Akhil Chauhan, Ari Deitch, David Fulks, Jason Morrell

will progress into Line and Grade/Conceptual Design and Environmental Evaluation. This phase will include extensive public and stakeholder engagement, coordination with local officials and agencies, and a detailed environmental review process.

As part of this contract, Arcadis is providing a comprehensive range of services, including a Line and Grade Study, conceptual design development, and an alternatives screening analysis. Additional tasks include Tier 1 and Tier 2 traffic analysis, air and noise impact studies, and Highway Safety Manual-based safety evaluations. The environmental component involves NEPA compliance and assessments of land use, community, and social impacts. Arcadis is also responsible for conducting a Phase I Environmental Site Assessment (ESA), leading public and stakeholder outreach, facilitating agency coordination, and developing the project scope, budget, and construction cost analysis.



17. Firm Experience

Firm Name	Forte & Tablada Inc.		Past Performance Evaluation Discipline(s)*		Survey	
Project Name	I-10 Calcasieu River Bridge (HBI)			Firm responsibility (prime or sub?)	Prime	
Project Number	H.003931	Owner's name	Louisiana Department of Transportation and Development			
Project Location	Calcasieu, LA		Owner's Project Manager	Barrett Smith		
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802; 225.379.1292; barrett.smith@la.gov				
Services Commenced by This Firm (mm/yy)		05/21	Total Consultant Contract Cost (\$1,000's)			\$4,282
Services Completed by This Firm (mm/yy)		12/22	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$4,282

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ Topographic survey of major bridge alternatives
- ▶ Hydrographic survey of navigable waterway
- ▶ Developing surface models from LiDAR for major bridge
- ▶ LiDAR survey of major bridge
- ▶ Utility survey for major bridge alternatives
- ▶ Exiting hydrology conditions for major bridge alternatives

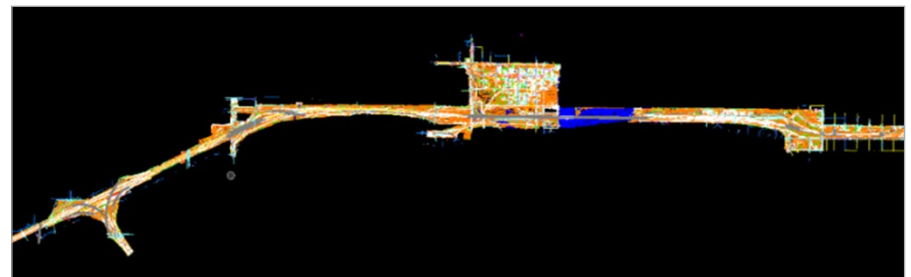
Forte and Tablada completed this extensive survey through four task orders under multiple IDIQ contracts for Professional Surveying Services with LADOTD. Covering approximately seven miles, the project involved a comprehensive topographic survey of I-10, including the I-10 Bridge over the Calcasieu River and the Calcasieu River Ship Channel; much of it located in a high-traffic industrial corridor.

Primary survey control was established using deep rod monuments meeting National Geodetic Survey standards to ensure high accuracy. The topographic survey, performed in compliance with LADOTD On-System survey standards, utilized a combination of conventional methods, terrestrial LiDAR, and mobile LiDAR. These advanced technologies allowed for detailed capture of bridge deck and substructure features while minimizing risk to field crews.

FORTE & TABLADA TEAM: Brad Holleman, Ross Wilson, Trent Iglehart

A multibeam hydrographic survey was also conducted across the river, adjacent water bodies, and canals within the project limits. This included mapping bridge substructures, identifying fender systems and debris, and conducting a magnetometer survey to assess subsurface conditions.

Additional services included the production of an existing drainage map covering the survey corridor and a half-mile perimeter beyond, as well as utility surveys supported by a Subsurface Utility Engineer for accurate utility location. Due to the size and complexity of the project, up to six survey crews were mobilized simultaneously—demonstrating Forte and Tablada's ability to efficiently execute large-scale topographic survey tasks within demanding timelines.



17. Firm Experience

Firm Name	Fahrenheit Creative Group LLC		Past Performance Evaluation Discipline(s)*		Planning	
Project Name	Jackson Water Community Engagement and Communications			Firm responsibility (prime or sub?)		Prime
Project Number	N/A	Owner's name	W.K. Kellogg Foundation			
Project Location	Jackson, MS		Owner's Project Manager	Robyn Rosenthal		
Owner's Address, Phone, Email	W.K. Kellogg Foundation, 1 E Michigan Ave, Battle Creek, MI 49017; 269.969.2787; robyn.rosenthal@wkkf.org					
Services Commenced by This Firm (mm/yy)	09/22	Total Consultant Contract Cost (\$1,000's)			\$250	
Services Completed by This Firm (mm/yy)	10/24	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$250	

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- ▶ MS community engagement
- ▶ Stakeholder communications
- ▶ Authority coordination

On August 30, 2022, former President Joe Biden declared a federal emergency in Jackson, Mississippi, due to "conditions resulting from a water crisis" when massive amounts of rain caused the Pearl River to flood. Fahrenheit Creative Group LLC was engaged by the W.K. Kellogg Foundation to help Jackson residents get accurate information about and timely access to clean water and craft a shared vision for the future of its water system. Katy Hendricks, director of design, led efforts to develop a simple and easily identifiable brand and look residents can use to determine if information about clean water is trustworthy and credible. Fahrenheit led the project strategy and implementation, led the creation of platforms to support the aggregation and sharing of information about water distribution and opportunities to engage in conversations about the water system, including a landing page and social media channels. Jason Thompson, principal, led the project, which included producing narrative-shifting media that helped Jacksonians understand the issue in-depth and the possibilities for the future. They facilitated conversations with nonprofit, philanthropy, and government groups to identify opportunities for collective impact and alignment.

FAHRENHEIT TEAM: Jason Thompson, Katy Hendricks



17. Firm Experience

Firm Name	Burns Cooley Dennis, Inc.		Past Performance Evaluation Discipline(s)*	Geotech	
Project Name	Ameristar Casino Stabilization Wall			Firm responsibility (prime or sub?)	Prime
Project Number	110169	Owner's name	Pinnacle Entertainment, Inc. (now Penn Entertainment, Inc.)		
Project Location	Vicksburg, MS		Owner's Project Manager	Todd Prudhomme	
Owner's Address, Phone, Email	Penn Entertainment, 4116 Washington Street, Vicksburg, MS 39180; 484.336.5023, todd.prudhomme@pennentertainment.com				
Services Commenced by This Firm (mm/yy)	07/11	Total Consultant Contract Cost (\$1,000's)			\$8,000
Services Completed by This Firm (mm/yy)	11/11	Cost of Consultant Services Provided by This Firm (\$1,000's)			\$65

RELEVANCE TO I-20 MISSISSIPPI BRIDGE

- Geotechnical Evaluation and Design of Slope Stabilization Methods in close proximity to the I-20 Vicksburg Bridge

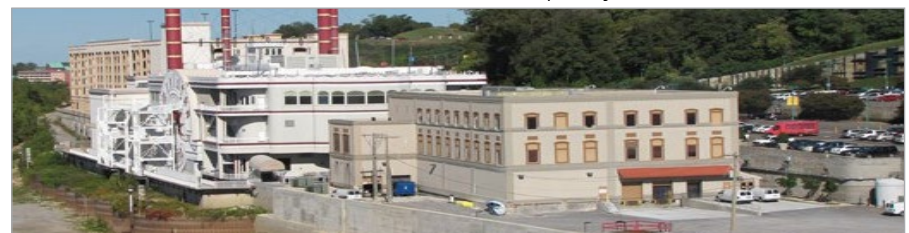
Since the construction of the Ameristar Casino in Vicksburg, Mississippi in 1994, deep-seated landslide movements have been occurring along the southern portion of the site. Located just upstream of the Highway and I-20 bridges over the Mississippi River, the casino—and both bridges—have been affected by the reactivation of an ancient landslide in the area.

In 2011, Pinnacle Entertainment, Inc. (now Penn Entertainment, Inc.) contracted Hayward Baker Inc. (HBI) to design and build a slope stabilization wall to protect the southern portion of the property. HBI, in turn, subcontracted with Burns Cooley Dennis, Inc. (BCD) to lead the design of the stabilization system. After evaluating several alternatives, BCD developed an innovative solution tailored to the site's unique conditions: a slope stabilization wall incorporating deep micropiles and long prestressed anchors capable of resisting significant landslide forces. These elements were integrated with a cast-in-place concrete facing, tied into the existing tangent pipe pile wall along the riverbank. Traditional stabilization methods were deemed unfeasible due to the size of the landslide and spatial constraints near the river.

BURNS COOLEY DENNIS TEAM: Bradley Campbell, Eddie Tempelton

BCD prepared detailed construction drawings, and HBI began construction in Fall 2011. Elevated river levels halted work from December 2011 to June 2012, but construction resumed in July and was completed by November 2012. Since completion, data from survey monuments and inclinometers confirm that ground movement behind the wall has ceased, although some limited activity continues downstream during low river stages.

This stabilization wall is notable for its ability to resist extraordinary landslide forces; up to 231,000 pounds per linear foot of wall. Despite the complexity and scale of the project, it was designed and constructed within a relatively short timeframe, with minimal disruption to casino operations and no encroachment into the Mississippi River. It remains one of the largest slope stabilization walls ever constructed based on its load resistance capacity.



Section 18

AECOM

Gordie Howe International Bridge

Detroit, Michigan, USA; Windsor, Ontario, Canada

Services: As Lead designer/design manager for Bridging North America, AECOM's vast global network of architects, planners, engineers, safety specialists, roadway experts, landscapers, interior designers and dozens of other technical practices are collaborating to bring this project to life and deliver a functional and iconic design.

Delivering a better world

18. Approach and Methodology

Overview

The I-20 Vicksburg Bridge, officially known as the Mississippi River Bridge at Vicksburg, is an element of vital infrastructure that connects Madison Parish in Louisiana to Warren County in Mississippi. Originally constructed in 1973, the bridge has undergone recent rehabilitation to maintain its structural integrity and ensure safety for the thousands of vehicles that traverse it daily. The recent stabilization work included overlaying the bridge deck and addressing the westward movement of Piers E1 and E2.

Based on our assessment of the available data, and our experience with very similar conditions, **the AECOM team is primarily focused on stabilization of the landslide and rehabilitation of the existing structure.** We are convinced that the landslide movements supporting the approaches can be arrested and that the westward movement of the piers can also be stopped. We are confident that this can be accomplished for a fraction of the cost of a new crossing. The AECOM team will provide a long-term solution to arrest the existing pier movement, support the serviceability of the I-20 Vicksburg Mississippi bridge, and will also provide alternative bridge alignments and crossing locations.

The AECOM Team

We bring special expertise required for the success of this project. In many cases, we have significant depth for each task due to over-lapping local, national, and international experience in environmental analysis and PEL, roadway design, landslide management, and delivery of visionary bridges. Besides bringing two nationally recognized experts in complex/long span bridge design to lead this effort (Kenneth Butler and Bob Anderson), the AECOM Team also includes navigation analysis and simulation experts to enable the team to effectively locate the bridge and pier spacing to minimize cost, maintain safe navigation, as well as obtain expedited USCG approval.

We have worked with DOTD and FHWA to deliver and streamline the NEPA process. A prime example is the Supplemental EA for the US 90 / LA 318 Interchange which was needed to secure approval for an Alternative Technical Concept. AECOM coordinated with DOTD and FHWA on delivery milestone dates, review times and how concurrent reviews would be handled; the Supplemental EA was completed on schedule.

The team also has unique navigation expertise: AECOM has expertise in all types of navigation analysis and has recently performed a navigation study and vessel collision analysis for the I-10 Mobile River Bridge as well as a navigation study for

a new terminal on the Mississippi River for the Port of New Orleans. Locus will use custom simulation databases and ship models in the Kongsberg K-Sim ship simulator located in Covington. The research team will utilize a Green-Amber-Red, "GAR" assessment system, based on the US Coast Guard operational risk assessment system, to qualitatively evaluate safety and maritime hazard identification for the simulations.

Locus is a technical provider of inland tug and barge models to the US Army Corps of Engineers in Vicksburg. They performed very similar navigation simulations for both the Huey P. Long Bridge widening project in Jefferson Parish as well as the Baton Rouge Loop new bridge location alternatives pier placement.

This table summarizes the skills and expertise of our team members from other firms.

SUBCONSULTANT	ROLE
Arcadis U.S., Inc.	Traffic modeling & analysis, environmental support, roadway design and cultural resources / environmental support
Ardaman & Associates, Inc.	Geotechnical engineering for Louisiana soils
Burns Cooley Dennis, Inc.	Geotechnical engineering for Mississippi soils and geological analysis
Dan Brown & Associates, LLC	Geotechnical engineering for pier foundations
Fahrenheit Creative Group LLC	Public and stakeholder engagement Mississippi
Forte and Tablada, Inc.	Topographic survey, LIDAR surface modeling, bathymetric survey and sonar
Huval & Associates, Inc.	Bridge/Structural Design support
Locus, LLC	Navigation analysis simulation
Marmillon Gray Media, Inc.	Public and stakeholder engagement Louisiana
The Lakvold Group LLC	Conceptual Stage Relocation Plan
Vectura Consulting Services, LLC	Traffic Data Collection

Key Leadership



Project Manager and PEL Lead:
Derek Chisholm, AICP, LEED GA, ENV SP.

In 2005, Project Manager Derek Chisholm began working on the largest public works project, at the time, on the West Coast. The project included conceptual design and NEPA approvals for a new Interstate bridge across the Columbia River. The project faced numerous challenges related to high numbers of displacements, endangered species, and the need to acquire property from a National Landmark. Mr. Chisholm was co-located with the various agencies and contractors on a multi-year effort that resulted in committed federal funding, a Record of Decision, local and federal permits, and design-build procurement packages.

He has contributed to numerous other EIS's and EA's nationally and has spent years working on local projects including the I-49 Lafayette Connector SEIS and the Jimmie Davis Bridge EA.



Deputy Project Manager and Bridge Design:
Bob Anderson, PE

With over 35 years of diverse design engineering and management experience including preliminary and final design of bridges and associated structures in both steel and concrete, Bob is ready to deliver for DOTD. His expertise includes applying highly technical design principles and effective project management techniques that have contributed to the success of major bridge projects across the United States and worldwide, including the planning, design, inspection, evaluation, rehabilitation and construction of over 20 cable-supported structures.



Lead Geotechnical Engineer:
John Volk, PE

John is a geotechnical engineering manager with more than 39 years of experience in subsurface investigation, foundation design, levee design and landslide stabilization. He specializes in soft soils, ground improvement and landslide stabilization for major highway and levee projects across the United States.

1. Geotechnical Evaluation and Approach

The heart of this project lies in the ability to arrest movement of the soil mass and bridge piers and stabilize the landslide. We believe that relocation of the bridge can be averted and that the landslide can be substantially stabilized. We base this statement on our extensive experience in stabilizing landslides and in particular, for a project north of Pierre, South Dakota which has many striking similarities.

The landslide at SDDOT Rt. 212 near Gettysburg, South Dakota, was one of the largest in North American spanning a mile in width and a half mile length. This massive landslide greatly affected a 4,600 ft long bridge crossing the Oahe Reservoir/Missouri River shown in Figure 1. Movements began shortly after construction in 1958, with shifts ranging from 2 to 5 inches per year in an area known for significant historic landslides. After 25 years of movement evaluations and structural modifications, AECOM was hired (legacy firms Greiner and Woodward-Clyde) to address the issue.



Figure 1 (left) – Aerial View of Forest City Landslide

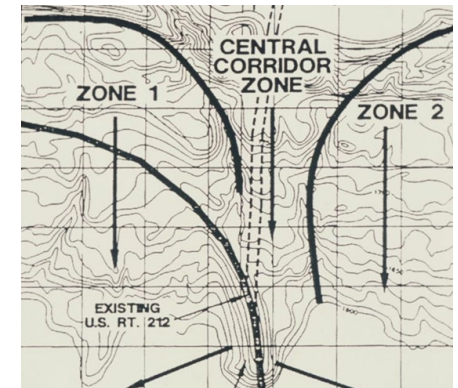


Figure 2 (right) – Roadway Relocation to Central Corridor

There are four major elements to landslide stabilization: (1) site characterization and identification of failure planes; (2) isolating an area to stabilize; (3) reducing driving forces at the head (near top) of landslide with excavation (or lightweight fills); and (4) pinning down the approach embankment. These elements were implemented for the Forest City landslide and may also be used at Vicksburg.

Following the installation of inclinometers and geologic evaluations two failure planes were identified. Consequently, the roadway was relocated to a “Central Corridor” as shown in Figure 2, to minimize stabilization costs by focusing on a core area while allowing the outer zones to continue moving. A massive 120 ft deep excavation was undertaken to “unload” the head of the landslide and reduce driving forces, resulting in the removal of 8 million cubic yards of soil, which was placed in a nearby valley. This significantly slowed movement to less than ¼ inch per year. To arrest movements in the approach embankment, 120 concrete filled shear pins (9 ft x 3 ft) were installed to depths of 90 to 140 ft. Eight inclinometers to 200 ft depth indicated that movements had slowed in the approach embankment to 0 to 1/8 inch per year. The bridge retrofit included the design of an expansion dam for the existing structure to accommodate 48 inches of movement.

For the Vicksburg bridge failure plane elevations have been reasonably identified. Limited additional instrumentation may likely be needed to confirm. In terms of reducing driving forces at the head of the landslide, lightweight fills (EPS geofoam, low density cementitious fill like Elastizell) would allow the grades to remain similar to existing. Installing shear pins near the approach embankment offers the most robust stabilization concept.

These would be drilled shafts or concrete-filled rectangular elements and would extend 40 to 60 ft below failure planes. We would use numerical modeling of the soil-structure interaction with PLAXIS or FLAC. Installing an expansion dam into the abutment allows very small movements for many years.



Figure 3 (left) – Excavation at Head of Forest City Landslide

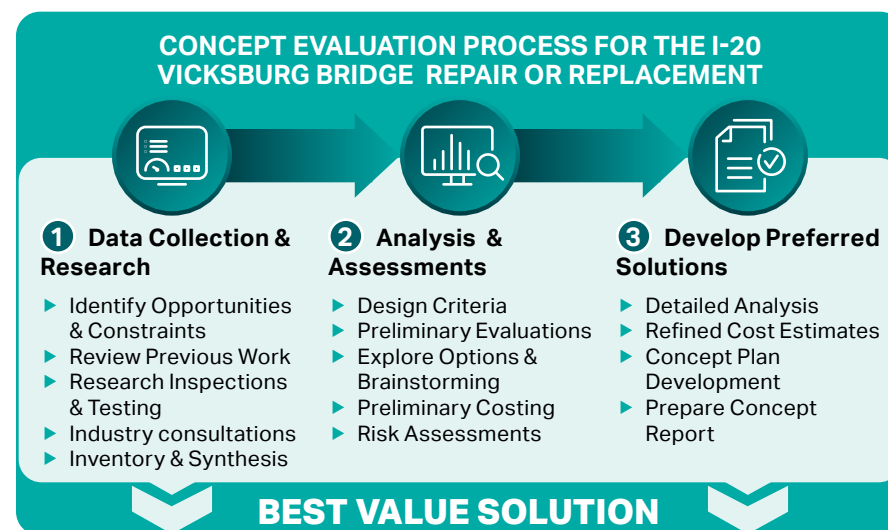


Figure 4 (right) – Shear Pins Installed at Approach Embankment

2. Structural Analysis and Design

The AECOM team will use a systematic approach to overcome the geotechnical challenges that the Mississippi River is placing on the I-20 Vicksburg Bridge. AECOM will provide DOTD a comprehensive **Bridge Concept Study Report** which will illuminate and demonstrate the technical viability of AECOM's best solutions. The capstone of the bridge concept study report shall include a concept to allow the existing bridge crossing to remain and arrest the movement of piers E-1 and E-2 for DOTD's consideration. Additionally, AECOM will develop alternatives to reroute I-20 and modify the crossing location to complete the bridge concept study report.

Before proceeding with the structural design and analysis for concept alternative development, AECOM will gather and review existing information from DOTD and MDOT to determine the current stress state of the bridge.



Data Collection

AECOM will create a detailed timeline of all the retrofit measures implemented over the lifespan of the existing bridge. The legacy information may include original and retrofit bridge plans, calculations and models, inspection reports, maintenance records, underwater scour investigations, geotechnical exploration programs, and geometrical and bathymetric surveys. Data collection may also involve supplementing, reviewing, and accepting existing

LiDAR surveys and integrating this information with Bridge Information Modelling (BRIM) technologies to create an accurate 3D map of the structure, capturing both its existing geometrical configuration and current condition. After inventorying and reviewing the existing information, AECOM will coordinate with the DOTD project manager and evaluate the possible need for additional testing, such as non-destructive evaluations, and structural health monitoring, which AECOM can perform in-house and may be recommended to further understand the bridge's behavior before establishing actionable solutions to arrest the pier movement or further studying a new route alternative.

Project Specific Design Criteria

AECOM will begin bridge alternative selection process by developing project-specific design criteria that seamlessly integrate bridge and geotechnical design, code compliance, safety, construction considerations, cost efficiency, aesthetics, and the preferences and DOTD policies for both rehabilitated existing and new bridge types. Simultaneously with the data collection phase, our team will identify opportunities and constraints. Guided by the established criteria, AECOM will collaborate with the DOTD project manager to formulate a plan for developing alternative configurations for both stabilizing the existing bridge and creating new bridge alternatives. This will be achieved through a multi-disciplinary approach, highlighted by integrating our geotechnical engineering expertise, that builds upon previous and ongoing work. The criteria, in conjunction with life cycle costing methodologies, will ensure that alternatives are evaluated equally, enabling the team to propose solutions that best align with the project's needs.

Preliminary Design

Preliminary design, which will culminate in the Bridge Concept Study Report, will begin once critical as-built data has been collected and analyzed. Recognizing that the bridge's behavior is variable and dynamic due to the sliding soil mass, findings from ongoing field explorations up to a specified cut-off date will be integrated into structural modeling and design development, ultimately leading to the issuance of this report.

Structural Design: The cornerstone of the structural design for both new and existing alternatives will be the creation of high-definition 3D structural analysis models.

It is crucial that these models and the modeling process include:

- ▶ Consideration of the as-built condition, with updates for retrofits.

- ▶ Advanced techniques, such as linear and non-linear methods with soil springs for soil-structure interaction, high-definition finite element analysis, fuse elements, and incorporation of shear modulus. AECOM has experience with using powerful geotechnical analysis programs, such as PLAXIS®, to assess slope stability and soil-structure interaction.
- ▶ Consideration of ground motions and their effects related to soil mass, given Vicksburg's proximity to the seismically active New Madrid region. Our recent design of the Tennessee River Bridge near Paducah, Kentucky was influenced by the same New Madrid seismic region.
- ▶ Bridge aerodynamics and wind load assessments based on code recommendations, with additional amplification to approximate the dynamic and inertial response of long-span structures.
- ▶ Bridge articulation studies determine the appropriate types and locations of bearings.

Capacity versus Demand Evaluations: The existing bridge will be load rated at inventory and operating levels to determine its live load carrying capacity. This load rating will be enhanced by capacity checks that include other AASHTO load groups. Capacity versus Demand (C/D) ratios will be calculated for elements, including the foundations, and movement checks for bearings and expansion joints. **Nick Corda, PE** and our team have extensive experience with pier design and truss bridge design/retrofits. Thus, we recognize that it may be necessary to assess the capacity of the existing structure according to the AASHTO Standard Specification (LFD) used for its original design, while all new retrofit components will be designed following the current AASHTO LRFD Bridge Design Specifications.

Figure A shows the geologic subsurface at the bridge from previous investigations. AECOM understands how the stratification can contribute to the formation of slip planes with low angles of friction that has led to slope stability failures.

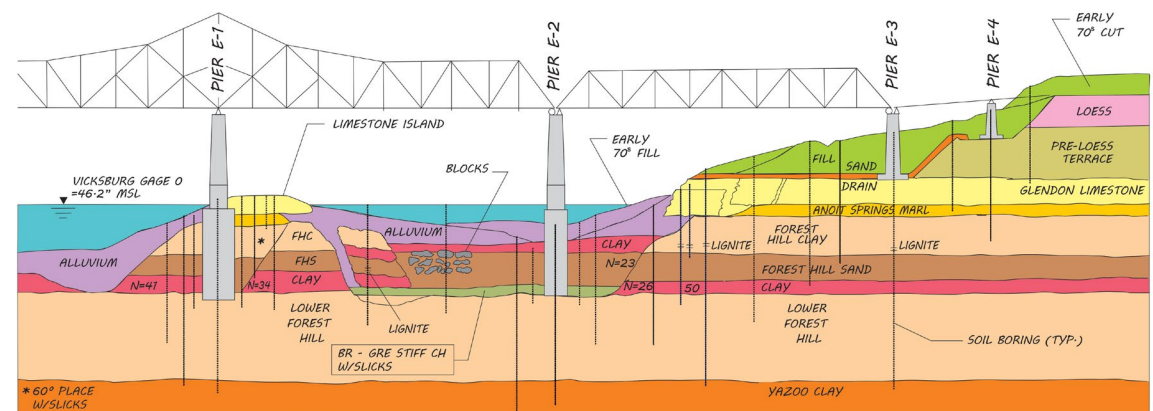


Figure A I-20 Bridge Soil Stratification

Our experienced design team brings proficiency in both codes, which is crucial not only for design but also for load rating the bridge with a specified suite of vehicles. Depending on DOTD's preference, both LFR and LRFR methodologies may be required. We also understand that projections of further movements of the soil mass must be incorporated into our design so we can estimate a proposed service life and the retrofits, mitigations, and costs that accompany the target lifespan of the bridge. We have performed a nearly identical design for the Forrest City Bridge crossing Missouri River in South Dakota. For the new replacement bridge, the analytical evaluations will be greatly influenced by the chosen alignment and recommended foundation type. Analytical modeling and capacity evaluations will be performed to give a reasonable certainty of bridge costs that can be compared to the replacement bridge with a life cycle cost analysis.

Vessel Collision Assessment: AASHTO guidelines require that bridges in navigable waterways be designed to prevent collapse in the event of a impact by merchant ships or barges. Key considerations include vessel size and type, water depth, vessel speed, and the bridge's structural response. Led by **Joseph Klein, PE**, our team understands that the design process involves a detailed vessel collision risk analysis, incorporating factors such as the annual number of passages by each type of vessel, probability of vessel aberrancy, geometric probability of wayward vessels striking vulnerable bridge components, and probability of bridge collapse. Joe recently performed a detailed vessel collision risk analysis for the Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project in Newburg, MD. The Vicksburg bridge, located downstream from a major bend in the Mississippi, presents unique challenges related to resisting vessel collision risk. Application of AASHTO provisions will draw from inputs obtained from simulations performed by our subconsultant, LOCUS LLC, and also vetted with a focus group of river pilots and users.

Data collection for the vessel collision assessment will include vessel traffic, navigation conditions, and waterway characteristics. This information will be used to compute collision loads based on vessel size and speed. Through linear and non-linear structural modeling, the bridge's structure and foundations will be evaluated for their capacity to resist these forces, drawing on AECOM's extensive experience, including pioneering beta testing over 20 years ago with fb MultiPier®, now widely used for the non-linear evaluation of vessel collisions considering soil-structure interaction.

Hydraulic Design and Scour: Our Hydraulic Design & Scour Team, led by **Sara Lajoie, PE**, will develop a comprehensive Hydrologic and Hydraulic Analysis (H&HA) and Scour Analysis to support the bridge alternative

selection, rehabilitation and proposed design. The H&HA Scour Analysis will demonstrate compliance with Federal, DOTD, local government and local flood control district statutes and regulations, as applicable. To evaluate the hydraulic performance of the bridge, data and resources will be collected to build the hydraulic model including the FEMA Effective Model with associated data, peak discharges and any subsequent letters of map change, site topography, bathymetry, inspection reports, soils data, etc.

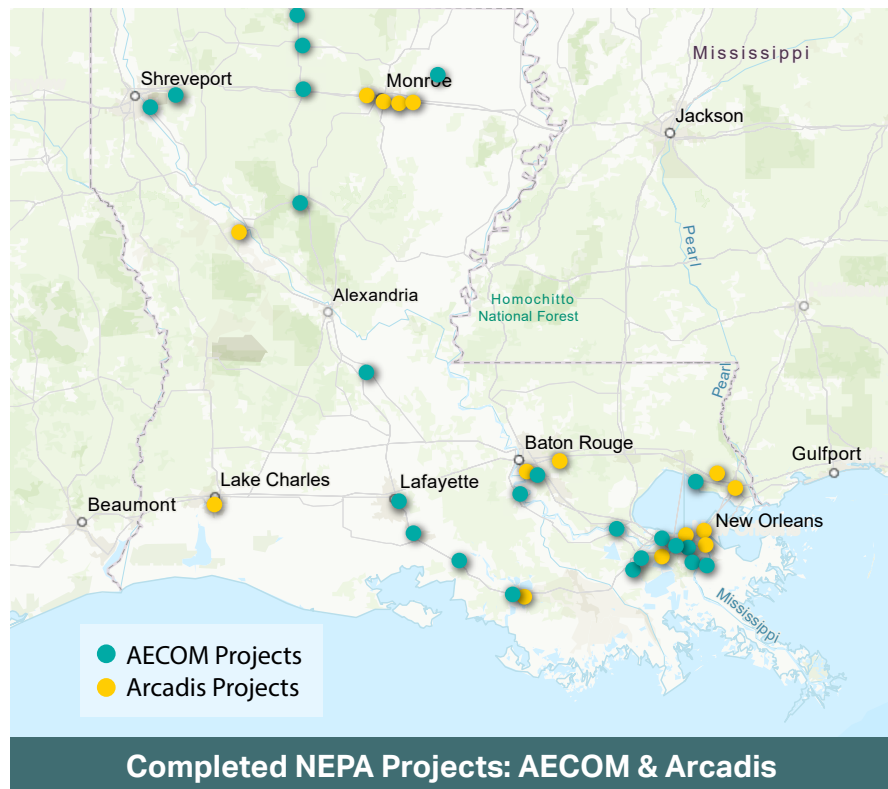
A scour analysis will be performed following the Federal Highway Administration's (FHWA) Hydraulic Engineering Circular No. 18 (HEC-18) methodology and procedures. At a minimum, scour elevations will be determined for the 100-year, and 500-year flood. The potential for scour hole overlaps will be investigated due to the proximity of the replacement and existing bridges. Supporting foundation elements will be extended below predicted scour elevations to resist scour in accordance with published guidance.

Concept Report

Our Concept Report will evaluate the feasibility of maintaining the existing bridge for a selected reasonable lifespan versus opting for a complete replacement. It will summarize the necessary retrofits to ensure the existing bridge can handle all dead and transient loads from its current state through interim phases. As mentioned earlier, our analysis will determine the forces acting on the existing structure from the end of construction to the present, and project them into the future to a target end of service life. We propose the formation of a Design Review Board for the Concept Report, comprised of experts from agencies, firms, and academia. Concept studies will be performed in parallel for the replacement bridge. The concept report will also include discussions on durability, maintainability, constructability, constraints, challenges, mitigations, and bridge aesthetics.

3. Planning and Environmental Linkages

The Purpose and Need Statement is a critical component of the PEL process. It serves as the foundation for project planning and decision-making. AECOM emphasizes clarity and alignment with stakeholder goals when drafting this statement. Among these stakeholders are the many river pilots and captains, whose navigational needs will be a focus in identifying potential locations for a new crossing.



AECOM is highly skilled in Planning and Environmental Linkages (PEL) and using this process to secure agreement on feasible solutions prior to initiating formal NEPA activities. In Louisiana, AECOM is a leader in preparing NEPA documents, AECOM has managed and participated in over 20 EA's and EIS's for transportation projects in Louisiana and Mississippi, most for DOTD. The AECOM Team, including Arcadis, has led or participated in over three dozen EA's and EIS's, providing DOTD the most experienced NEPA team in Louisiana.

Starting the Planning and Environmental Linkages (PEL) study, AECOM will bring recommendations for Purpose and Need Statements and be prepared to facilitate a discussion of the trade-offs associated with different approaches to the Purpose and Need. We have found that it is best to have a balanced Purpose and Need that is not too narrow nor too broad.

It contains the same information as the traditional Final Tier 1 EIS document in an interactive and engaging format. This includes photos, visualizations, sound demonstrations, videos, project dashboards, models and narrative, according

By integrating environmental considerations early in the planning process, PEL helps to identify potential environmental and social impacts, regulatory constraints, and stakeholder concerns. PEL facilitates the integration of digital engagement tools, such as AECOM's PlanEngage, which enhances stakeholder engagement and visualization. This tool improves communication by making project data more accessible and engaging. AECOM and the Arizona DOT worked together on the first fully-digital EIS for the I-11 project located at the link: [PlanEngage in Action](#)

to the release. Additionally, the platform has built-in feedback reception and reporting capabilities. This experience led to AECOM creating award-winning digital engagement tools too and shown in *Figure B* on the following page.

We will perform the various environmental analyses and prepare technical reports as needed. Analyses and technical reports will address all the typical sections of a PEL/NEPA process. During 2025, the team will quickly develop a constraints map, noting any environmental "showstoppers" which could increase costs or cause delays in delivering the project. Unlike very urban projects with several significant impacts, the team is comfortable that many types of environmental effects can be avoided in the study area. Subject to DOTD approval, the constraints mapping can be online and enable citizens to identify features as well.

4. Traffic Analyses and Design

A traffic engineering study will be conducted to develop and evaluate a range of alternatives for the project. The traffic study will be conducted in accordance with the LADOTD Traffic Engineering Process and Report (TEPR) guidelines as well as applicable EDSMs and manuals.

The limits of the study area and data collection plan will need to include portions of the existing roadway network that could be impacted by proposed alternatives. For example, alternatives that include a realignment of I-20 will likely impact existing ramps and intersections along US 61 (Blues Highway), US 61 BUS (Warrenton Road), Halls Ferry Road, and US 80. Data collection on these routes should extend beyond the ramp terminals as needed to assess impacts at adjacent intersections and coordinated signal systems. Additionally, intersections on routes that could be impacted by projected changes in travel patterns should be included in the data collection plan.

The study will utilize a tiered, data-driven approach to develop and evaluate alternatives. Tier 1 will include a wide range of alternatives that are conceptualized to a sufficient level of detail to perform a comparative analysis based on relevant evaluation criteria. Alternatives that are determined to be most feasible will move forward to preliminary Tier 2, where refinement of alternatives will be performed through the development of critical geometry and high-level traffic analysis. During preliminary Tier 2, evaluation criteria will be determined for use in subsequent comparative analysis of alternatives. Tier 2 analysis will include a detailed assessment of alternatives with respect to traffic operations and safety, and selected evaluation criteria that typically include but is not limited to environmental impacts, ROW impacts, construction cost, maintenance of traffic, constructability, etc. Lastly, the team is prepared to provide Tier 3 analysis for the preferred alternative in anticipation of an Interchange Modification Report (IMR). Tier 3 analysis will include additional geometric details and signing and marking layouts.

For traffic volume projections and forecasts for future year conditions, the team will utilize available Travel Demand Models and data including the Jackson area/ MPO Model (which includes Warren County), the Louisiana Statewide Model, and Mississippi Statewide Model.

Traffic analysis software such as Highway Capacity Software (HCS), Synchro, and SIDRA (Roundabouts only) will be utilized for capacity analysis. Where such tools are limited in their ability to model complex operational conditions, Vissim models may be needed for spot locations to determine the operational performance of existing or proposed conditions. Our team will hold pre-scoping meetings with LADOTD to discuss the technical approach for modeling and determine which software will be appropriate.

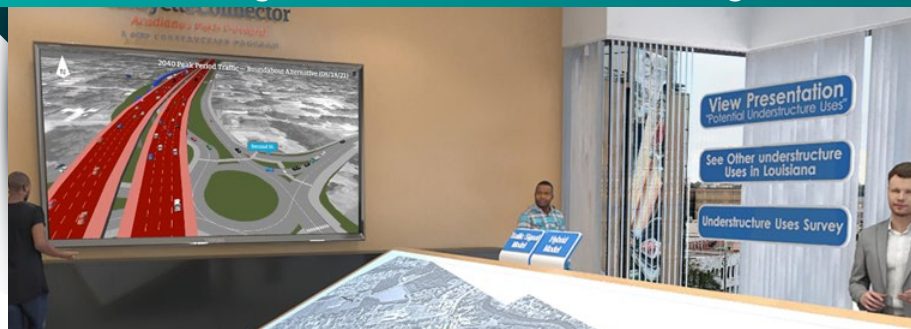
5. Engagement

AECOM will develop a unique, bi-state public involvement plan for this project. It will combine conventional outreach including the initial Solicitation of Viewers and public open houses. The plan will also include digital tools, online commenting, and potentially the development of interactive mapping which would be hosted on the project webpage.

Marmillon Gray Media, Inc. on the Louisiana side is well-known to the DOTD, having played a key role in I-10 improvements through Baton Rouge and the Baton Rouge Loop/New Mississippi River Bridge Tier 1 EIS working closely with AECOM on that project. Rannah Gray and George Burkley from LOCUS will also help facilitate discussions among river pilots and other maritime users of the river. Rannah has ample in-house expertise working with the public, governmental agencies, and businesses. She and George will also facilitate user groups including major tow companies headquartered in Vicksburg (Ergon Marine, Yazoo River Towing, Golding Barge Line) other major tow companies that operate in the area (Kirby, American Commercial, and Marquette) as well as Major Industry Tow Groups (the Waterways Council and Gulf Intercoastal Canal Association). The Fahrenheit Creative Group, have been added to the team to assist Rannah and to focus on the Mississippi side, with Vicksburg and Warren County. They will work with designated neighborhood associations in Vicksburg and community groups such as the Vicksburg Foundation for Historic Preservation. They can also assist the Louisiana DOTD in providing updates to the MDOT or help to engage stakeholder groups in the capital, Jackson, or in presenting to the Mississippi House Transportation Committee. Statewide organizations that Fahrenheit would interview include the Mississippi Trucking Association and Mississippi Association of Pupil Transport.

Figure B Innovative Engagement Tools

Award-winning Tools for Interactive Marketing!



DOTD won a 2022 TransComm Interactive Marketing Award for the 1-49 Lafayette Connector Virtual Reality Room developed by AECOM. The AASHTO Committee on Transportation Communications (TransComm) is made up of public affairs professionals from across the 52 DOTs. It promotes excellence in communications through the exchange of ideas and educational programming. The VR Room project showcases a corridor map with rendered street views of potential understructure use, mainline viaduct structure alternatives as well as traffic models at main intersections. Boards display different urban design treatments including streetscape concepts, under-structure uses, street furnishings. (i49VR.com)

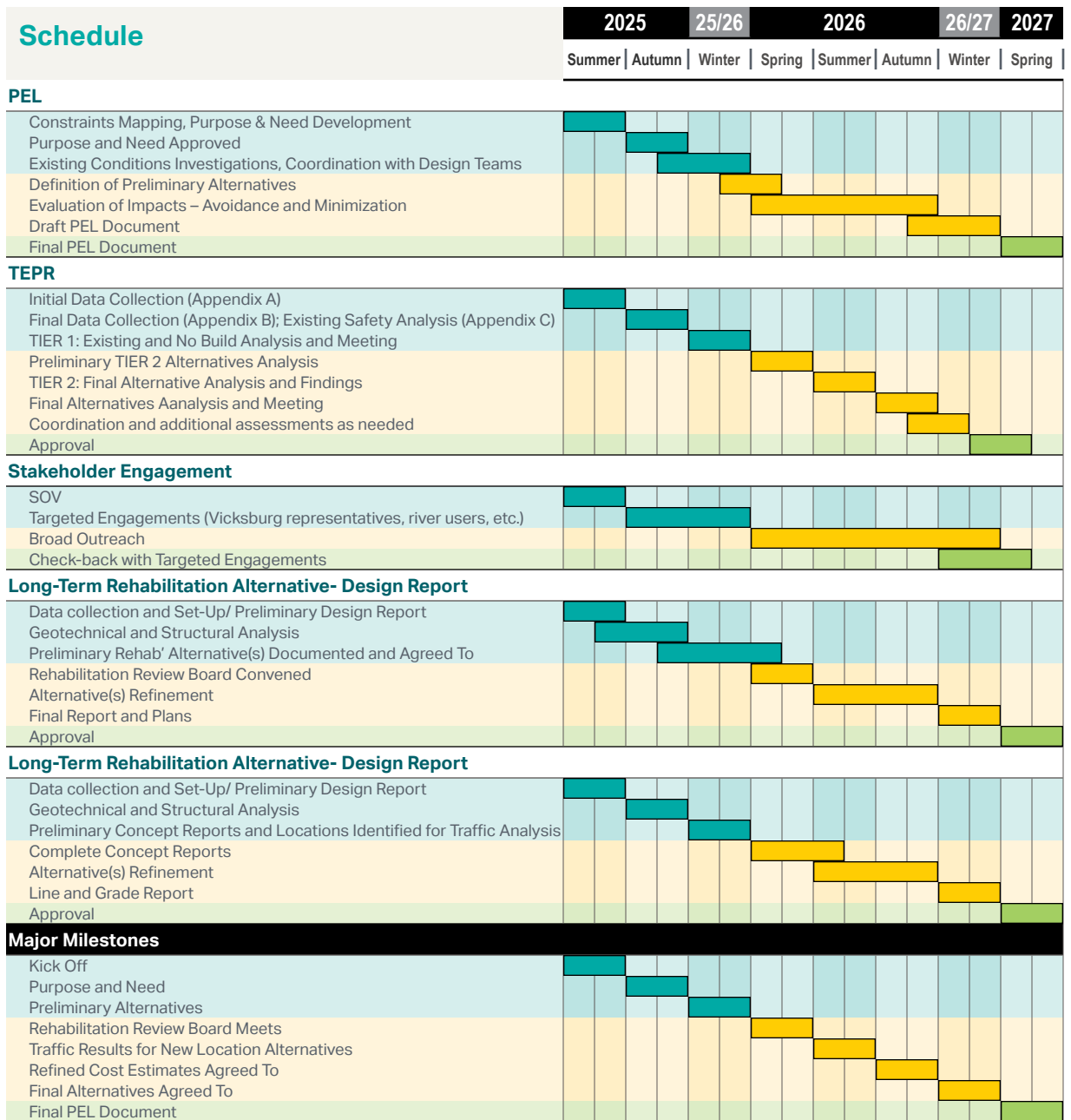


6. Conclusion

With over 300 personnel in the State, AECOM is currently delivering some of the largest, most complex infrastructure projects in Louisiana. We combine the deep local understanding, and a long history with the DOTD, with a team of national experts, several with direct experience under very similar conditions. As stated at the start of this section, we have successfully provided long-term rehabilitation of bridges that had the same risks as the Vicksburg I-20 bridge. By including three geo-technical firms, we combine their expertise as well as new and old perspectives on this site. AECOM also has a team of specialists at analyzing and managing landslides.

The schedule shown here demonstrates the integrated approach to complete rehabilitation assessments and design, the TEPR process, the PEL process, and the conceptual location and design of potential new crossing(s).

Although confident that we can rehabilitate the existing bridge, we are also the nation's number one transportation firm and number two in bridge design per ENR. Our qualifications speak for themselves, as shown in this proposal, with AECOM designers winning dozens of national awards. Pulling together all these resources and delivering this project efficiently for DOTD is critical. The AECOM management team is led by local staff who are accustomed to DOTD processes and requirements. We would be honored to support the DOTD in making this project a success!



The overall time for the completion of the scope of services is estimated to be 730 days.

A nighttime photograph of the Pearl Harbor Memorial Bridge in New Haven, Connecticut. The bridge is a cable-stayed bridge with four prominent, cylindrical pylons illuminated with bright blue light. The bridge deck and its reflection are visible in the water below. In the background, other bridge structures and city lights are visible under a dark sky.

19-23

AECOM

Pearl Harbor Memorial Bridge

New Haven, Connecticut

Services: Concept development; preliminary and final design; and construction phase services. The I-95 New Haven Harbor Crossing Corridor Improvement Program reconstructed approximately 7 miles of I-95 in New Haven, East Haven and Branford, Connecticut. The centerpiece of this project was the Pearl Harbor Memorial Bridge over the Quinnipiac River.

Delivering a better world

19. Workload

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
AECOM TECHNICAL SERVICES, INC.	Bridge	H.015603.5	LA 641 Bridge Load Rating Services	\$95,340
	Bridge	H.009859.5	TO#1 Bridge Load Rating Services	\$1,009,026
	-	H.004273.5	I-49 Connector	See below
	Planning		Tasks 1, 5, 6, 12	\$514,486
	Traffic		Task 2	\$34,207
	Road		Task 4	\$14,923
	Bridge		Task 8	\$5,335
	Environmental		Task 10	N/A
	Bridge		Task 301	N/A
	Bridge		Task 302	\$95,000
	Bridge		Task 408	\$122,179
	Bridge	H.011969.5	Contract 1 for Movable Bridges (LA 1264)	\$555,400
	Bridge	H.012044.5	Contract 1 for Movable Bridges (LA 384)	\$400,181
	Bridge	H.011988.5	Contract 1 for Movable Bridges (LA 86)	\$490,008
	Bridge	H.011973.5	Contract 1 for Movable Bridges (LA 315)	\$483,440
	Bridge	H.012737.5	Contract 1 for Movable Bridges (LA 433)	\$483,440
	Road	4400023921 H.016313	LA 1206: Creek Bridge	\$404,837
	Road	4400023921 H.016315	LA 463: Drain Bridge	\$107,404
	Road	4400023921 H.016316	LA 499: Ice Branch Bridge	\$107,404
	Road	4400023921 H.016317	LA 1234: Drain Bridges	\$152,036

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
AECOM TECHNICAL SERVICES, INC.	Road	4400023921 H.016321	LA 970: Creek Bridge	\$107,404
	Road	4400023921 H.016322	LA 81: W-11 Lateral & Bayou Black Brs	\$148,588
	Road	4400023921 H.016323	LA 37: Glass Branch Brid	\$107,404
	Road	4400023921 H.016324	LA 463: Drain Bridge	\$107,404
	Road	4400023921 H.016326	LA 36: Drain Bridge	\$107,404
	Environmental	4400023921 H.016313	LA 1206: Creek Bridge	\$50,656
	Environmental	4400023921 H.016315	LA 463: Drain Bridge	\$50,656
	Environmental	4400023921 H.016316	LA 499: Ice Branch Bridge	\$50,656
	Environmental	4400023921 H.016317	LA 1234: Drain Bridges	\$53,087
	Environmental	4400023921 H.016321	LA 970: Creek Bridge	\$50,656
	Environmental	4400023921 H.016322	LA 81: W-11 Lateral & Bayou Black Brs	\$53,087
	Environmental	4400023921 H.016323	LA 37: Glass Branch Bridge	\$50,656
	Environmental	4400023921 H.016324	LA 1047: Drain Bridge	\$50,656
	Environmental	4400023921 H.016326	LA 36: Drain Bridge	\$50,656
	Road, Bridge, Traffic	4400023434 H.000445	US 190: UPRR Overpass near Opelousas	\$2,555,108

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ARCADIS U.S., INC.	Traffic	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 (50% of remaining work is complete and invoiced but awaiting payment)	\$1,490,002
	Traffic	4400019379 / H.013797	LA 30: EBR PL – I-10	\$232,048
	Traffic	4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	\$43,467
	Traffic	4400021325 / H.012837.5	I-10 New Orleans Master Plan	\$93,173
	Traffic	4400023690 / H.015590.5	LA 494: LA 6 To Blanchard Rd	\$194,387
	Traffic	4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	\$190,399
	Traffic	4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	\$12,348
	Traffic	H.003931	I-10 Calcasieu River Bridge P3 Project (Majority of remaining work to be completed within 1 year)	\$1,800,000

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ARCADIS U.S., INC.	Road	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	\$269,615
	Road	4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	\$27,459
	Road	4400019010 / H.010116.5	LA 1088: Soult and Trinity Roundabouts	\$33,307
	Road	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Road Task Orders	\$26,082
	Road	H.003931	I-10 Calcasieu River Bridge P3 Project (Majority of remaining work to be completed within 1 year)	\$2,400,000
	ITS	4400025921 / H.015938.1	Transportation Systems Management and Operations (TSMO) Program	\$142,500
	ITS	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 (50% of remaining work is complete and invoiced but awaiting payment)	\$335,981
	ITS	4400026457 / H.013868.5	ITS MGMT, OPERATIONS, & MAINT	\$504,999
	ITS	4400026457 / H.013868.6 (A)	ITS MGMT, OPERATIONS, & MAINT	\$127,748
	ITS	4400026457 / H.013868.6 (B)	ITS MGMT, OPERATIONS, & MAINT	\$65,079
	ITS	H.003931	I-10 Calcasieu River Bridge P3 Project (Majority of remaining work to be completed within 1 year)	\$420,000
	Environmental	4400009703 / H.000688.2	US 11 Norfolk Southern Railroad	\$3,008
	Environmental	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	\$926,274
	Environmental	4400019338 / Multiple State Project Nos	Rural Bridge Replacement Initiative Phase II	\$52,764
	Environmental	4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road EA	\$5,343
	Environmental	4400025022 / H.015498.5 Recall 102225	Park Road Over Lagoon	\$35,000
	Environmental	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Env. Task Orders	\$183,549
	Environmental	4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	\$65,529
	Environmental	H.003931	I-10 Calcasieu River Bridge P3 Project (Majority of remaining work to be completed within 1 year)	\$480,000

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ARCADIS U.S., INC.	Bridge	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 (50% of remaining work is complete and invoiced but awaiting payment)	\$730,393
	Bridge	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Bridge Task Orders	\$20,498
	Bridge	4400021325 / H.015193.1	LA 22: Tchefuncte Bridge Feasibility	\$4,889
	Bridge	H.003931	I-10 Calcasieu River Bridge P3 Project (Majority of remaining work to be completed within 1 year)	\$900,000
	CE&I	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	\$365,196
	CE&I	4400027361 / H.011220.6, H.012901.6,	US 90 Engineering Support	\$261,305
	CE&I	4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	\$193,131
	CE&I	4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	\$35,297
	CE&I	4400025665 / H.013482.6	I-10 WBR Queue Warning System (Waiting on a supplement)	N/A
	Data Collection	4400021325 / H.012837.5	I-10 New Orleans Master Plan	\$5,947
	Data Collection	4400023812 / H.015377.5	Weigh Station Assessment	\$454,079

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ARDAMAN & ASSOCIATES, INC.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	\$422,403
	Geotech	44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$72,965
	Geotech	44-1960; H.013897	I-10 / I-12 College Drive Flyover Ramp	\$20,241
	Geotech	44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$299,218
	Geotech	H.004435	I-12 to Bush Construction Phase	\$47,956
	Geotech	44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$25,760
	Geotech	44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	\$180
	Geotech	44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$2,781
	Geotech	44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,743,373
	Geotech	H.015935	LA 47 @ Bayou Bienville	\$23,059
	Geotech	44-25025; H.015337, H.015452, H.015453, H.015454, H.015455, H.015456, H.015457, H.015458, H.015459, H.015460, H.015461, H.015462, H.015463	IIJA	\$202,942
	Geotech	44-24652; H.014265.5	N River Road Irving Branch	\$1,217
	Geotech	44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	\$4,452
	Geotech	44-24652, H.012607.5	Henderson Bayou Bridge LA 933	\$5,070
	Geotech	44-24652, H.015568.5, H.015569.5	Pelican Point Roundabout	\$160,460
	Geotech	44-24652; H.012842.5	LA 124 Ext. Larto Lake	\$3,372
	Geotech	44-21519; H.012030.5	KCS RR Overpasses US 371	\$47,561
	Geotech	44-6189; H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5	Culvert Replacements	\$256,734

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
ARDAMAN & ASSOCIATES, INC.	Geotech	44-21887; H.012542, H.012453, H.012544, H.012047	Replacement of 15 Bridges	\$779,058
	Geotech	44-25026; H.015489, H.015490, H.015491, H.015492	IIJA	\$19,330
BURNS COOLEY DENNIS, INC.	Geotech	None	None	N/A
DAN BROWN AND ASSOCIATES, LLC	Geotech	None	None	N/A
FAHRENHEIT CREATIVE GROUP LLC	N/A	N/A	N/A	N/A

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
FORTE & TABLADA, INC.	Bridge, Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$51,603
	Bridge	4400021594/H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	\$4,127
	Bridge	4400021594/H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	\$562
	Bridge	4400021594/H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	\$254
	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	\$1,408,396
	Bridge	4400021594/H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	\$68,942
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	\$158,517
	Bridge	4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	\$8,424
	Bridge, Survey	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	\$7,428
	Bridge, Survey	4400013387/H.013137.5	OSBR Ouachita	\$23,249
	Bridge, Survey	4400019864/H.014318.5	OSBR Gurney Road Bridges	\$4,708
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	\$3,487
	CE&I/OV	4400023837/H.013090.6	Gretna Downtown Pedestrian Improvements	\$10,577
	CE&I/OV	4400023837/H.009290.6	LSU Laboratory School SRTS Project	\$7,263
	Survey	4400021532/H.012068.5	LA 1026: Creek Bridge	\$10,719
	Survey	4400021532/H.010116.5	LA 1088: Sout & Trinity Roundabouts	\$23,987
	Survey	4400021532/H.005734.5	LA 447 Corridor Study	\$119,475
	Survey	4400021532/H.012563.5	LA 73: Bayou Manchac Bridge (HBI)	\$461
	Survey	4400021974/H.002186.5	UP (Plaquemine)	\$90,304
	Survey	4400021974/H.012449.5	H.012449.5 KCS Xings Gayosa St. & Louise	\$17,107
	Survey	4400021974/H.016748.5	US 167: Median Improvements	\$134,057
	Survey	4400025029/H.015341	D61(EBR) IJJA Off-System Bridge	\$69,054
	Survey	4400025029/H.015341	D61(EBR) IJJA Off-System Bridge - SA 3	\$41,123
	Survey	4400004128/H.004273.5	I-49 Connector Additional ROW	\$55,766

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
HUVAL & ASSOCIATES, INC.	Road, Bridge	Co. #:4400005673 S.P. H. 011235	I-49 South @ Verot School Road Lafayette Parish – De-sign Phase Supp. #3,4,5	\$97,864
	Bridge	Co. #:4400010428 S.P.H.004774.5	Kansas Lane-Garrett Road Connector – Supp #1	\$11,644
	Bridge	Co. #:4400017421 S.P. H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services	\$173,401
		Co. #:4400017421 S.P. H.002273.5	Comite Diversion Bridge at LA 19 & LA 19 Railroad – Const. Services	
	Road, Bridge	Co. #:4400029193 S.P. H.004100.5	I-10 CMAR –Design	\$4,545,608
	Road, Bridge	Co. #:4400029193 S.P. H.004100.6	I-10 CMAR – Construction Services	\$727,569
	Road, Bridge	Co. #:440017262 S.P.H.012545.5	LA 454: Wiggins Bayou Bridge	\$87,456
	Bridge	Co. #:4400017262 S.P.H.014646.5	I-20: US 165 East of Garret Road	\$27,224
	Bridge	Co. #:4400017262 S.P.H.014052.5	LA 151: Construction Services	\$38,473
	Bridge	Co. #:4400017262 S.P.H.002868.6	I-49 South: Ambassador Caffery Interchange	\$24,106
	Road, Bridge	Co. #:4400017262 S.P.H.012027.5	I-20: UPRR Overpass	\$362,180
	Bridge	Co.#. 4400017262 S.P.H. 014747.5	Southern University Ravine Mitigation	\$280,902
	Bridge	Co.#. 4400017262 S.P.H. 011808.6	LA 10: Palmetto Company Canal BR	\$27,180
	Road, Bridge	Co. #. Not Assigned S.P.H. 001779	Jimmie Davis Bridge (LA 511 – Design-Build Project)	\$2,797,072
	Bridge	Co.#. 4400023923 S.P.H. 013821.5	LA 6: Youngs Bayou Bridges	\$10
	Bridge	Co.#. 4400023923 S.P.H. 007300.5	I-20 Widening and Kansas - Garrett Connector	\$18,483

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
HUVAL & ASSOCIATES, INC.	Bridge	Co.#. 4400023923 S.P.H. 012545.6	LA 454 - Wiggins Bayou Bridge: Construction Services	\$39,352
	Bridge	Co.#.4400023923 S.P.H. 014560.6	LA 94: Vermillion Bridge Replacement	\$28,105
LOCUS, LLC	N/A	None	None	N/A
MARMILLON GRAY MEDIA, INC.	Other – (public involvement)	4400021094	Update Statewide Transportation Plan	\$4,609
	Other – (public involvement)	4400022830	LADOTD Americans with Disabilities Act (ADA) Transition Plan Update, Phase 1 – District 3 Pilot Study	\$54,899
	Other – (public involvement)	4400015733 / H.972374.1	Local Public Agency Documented Planning Process- Statewide	\$24,639
THE LAKVOLD GROUP, LLC	Appraiser	H.007811	Comite River Diversion Canal, ERRP, LA	\$20,800
	Appraiser	H.004100	I-10: LA 415 to Essen On I-10 and I-12, EBRP, LA	\$20,000
	Appraiser	H.010124	LA 15: Roundabout at LA 447, Livingston Parish, LA	\$10,000

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
VECTURA CONSULTING SERVICES, LLC	Traffic	4400017293 H.010616	I-20: LA 544 Overpass Replacement	\$74,429
	Traffic	400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	\$71,398
	CE&I/OV	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	\$66,032
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$11,202
	Traffic	4400021519 H.012030.5	KCS RR Overpasses HBI	\$572
	Traffic	4400023075 H.013522	S. Lewis Street Widening	\$7,499
	ITS	4400016364 H.015136.1	Lake Charles Regional ITS Architecture Update	\$12,643
	ITS	4400017922 H.012845.1	C/AV Team and Working Group Support	\$6,820
	ITS	4400017922 H.014515.5	SEA ATMS and 511 System	\$11,652
	ITS	44000020058 H.011507.1	Monroe Phase 3 SEA	\$29,217
	Traffic	4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146
	ITS	4400016364 H.015136.1	Shreveport-Bossier Regional ITS Architecture Update	\$11,260
	ITS	4400016364 H.014511.1	Houma Regional ITS Architecture Update	\$10,746
	Traffic	4400025299 H.013421.5	Dist. 02H Flashing Yellow Arrow Part 2	\$360,988
	Traffic	4400026913 H.013421.5	East Street & Parkview Drive Sidewalks	\$12,818

20. Certifications/Licenses

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

REQUIRED personnel under Traffic Heading(s) TEPR Certifications

<i>Certificate of Completion</i> presented to Akshil Chauhan for completing the Traffic Engineering Analysis Process & Report Module 1 Date: June 4, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 4 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure	<i>Certificate of Completion</i> presented to Akshil Chauhan for completing the Traffic Engineering Analysis Process & Report Module 3 Date: September 10, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 3 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure	<i>Certificate of Completion</i> presented to Ari Deitch for completing the Traffic Engineering Analysis Process & Report Module 1 Date: July 16, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 2 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure	<i>Certificate of Completion</i> presented to Ari Deitch for completing the Traffic Engineering Analysis Process & Report Module 3 Date: October 15, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 3 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure
<i>Certificate of Completion</i> presented to Akshil Chauhan for completing the Traffic Engineering Analysis Process & Report Module 2 Date: June 11, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 4 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure		<i>Certificate of Completion</i> presented to Ari Deitch for completing the Traffic Engineering Analysis Process & Report Module 2 Date: July 23, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDH): Awarded: 3 <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor <i>[Signature]</i> Authorized Instructor DOTD Louisiana Department of Transportation and Infrastructure	

REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 4

Poly A. Colvins
Authorized Instructor

John Hitt
Authorized Instructor

Robert J. Brumfield
Authorized instructor



Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 4

Poly A. Colvins
Authorized Instructor

John Hitt
Authorized Instructor

Robert J. Brumfield
Authorized instructor



REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Brin Ferlito

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**

Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3


Authorized Instructor


Authorized Instructor


Authorized instructor



Certificate of Completion

presented to

Clara Foshee

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**

Date: October 1, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5


Authorized Instructor


Authorized Instructor


Authorized instructor



REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Clara Foshee

for completing the

**Traffic Engineering Analysis Process & Report
Module 2**

Date: October 10, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5


Authorized Instructor


Authorized Instructor


Authorized instructor



Certificate of Completion

presented to

Clara Foshee

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**

Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

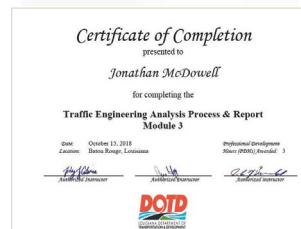
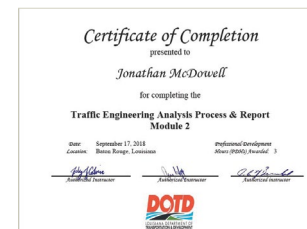
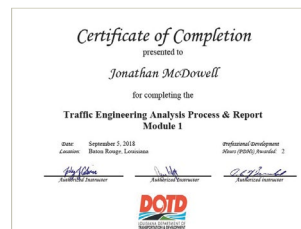

Authorized Instructor


Authorized Instructor

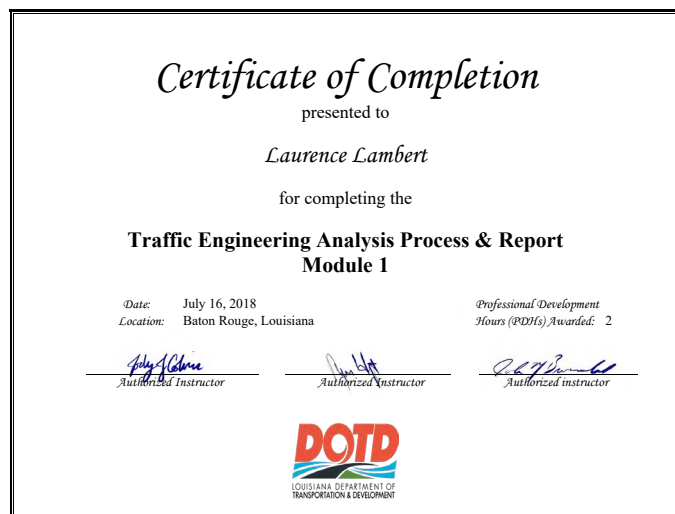

Authorized instructor



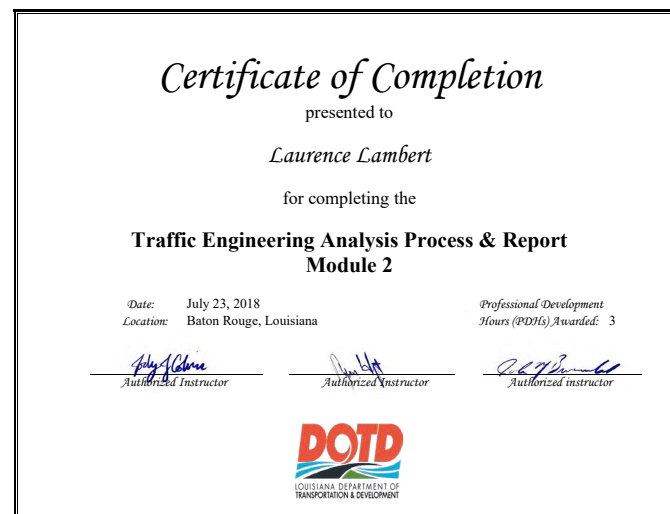
REQUIRED personnel under Traffic Heading(s) TEPR Certifications



REQUIRED personnel under Traffic Heading(s) TEPR Certifications

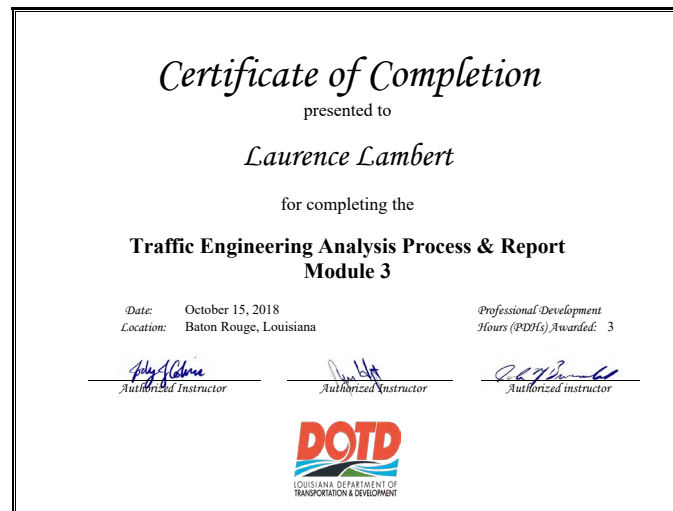


Page 119 of 139 Prime consultant firm name: [AECOM Technical Services, Inc. \(AECOM\)](#)



Page 120 of 139 Prime consultant firm name: [AECOM Technical Services, Inc. \(AECOM\)](#)

REQUIRED personnel under Traffic Heading(s) TEPR Certifications



Section left intentionally blank.

Page 121 of 139 Prime consultant firm name: **AECOM Technical Services, Inc. (AECOM)**

REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5

[Signature]
Authorized instructor

[Signature]
Authorized instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

[Signature]
Authorized instructor

[Signature]
Authorized instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

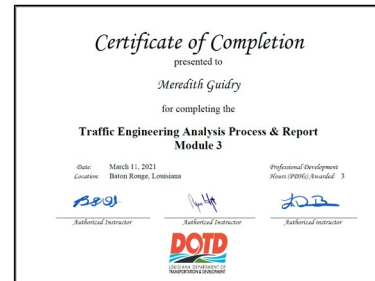
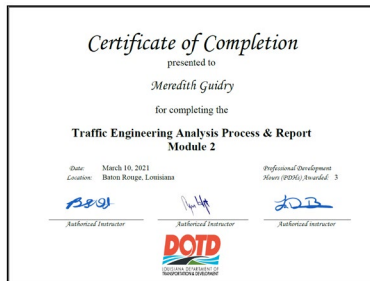
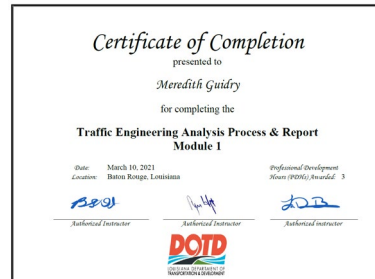
[Signature]
Authorized instructor

[Signature]
Authorized instructor

[Signature]
Authorized instructor



REQUIRED personnel under Traffic Heading(s) TEPR Certifications



Congratulations! Nelida Herrera

You have completed

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

Date: April 27-28, 2023
Location: Baton Rouge, Louisiana

*Professional Development
Hours (PDHs) Awarded: 8.50*

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Peter Bakhit

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5

Polly J. Colvins
Authorized Instructor

John Holt
Authorized Instructor

Robert J. Brumfield
Authorized instructor



Certificate of Completion

presented to

Peter Bakhit

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: July1, 2019
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Polly J. Colvins
Authorized Instructor

John Holt
Authorized Instructor

Robert J. Brumfield
Authorized instructor



REQUIRED personnel under Traffic Heading(s) TEPR Certifications

Certificate of Completion

presented to

Peter Bakhit

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: July 2, 2019
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Congratulations! *Sridhar Basetty*

You have completed

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

Date: April 27-28, 2023
Location: Baton Rouge, Louisiana

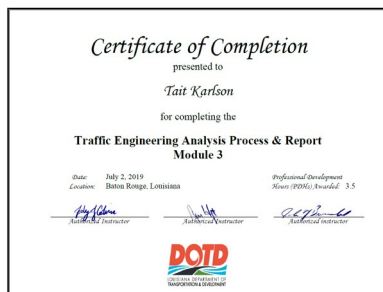
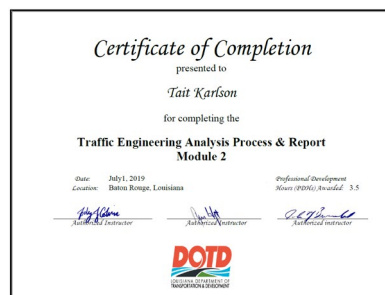
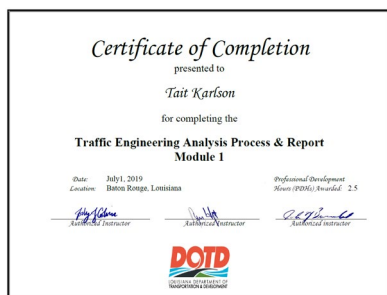
Professional Development
Hours (PDHs) Awarded: 8.50

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

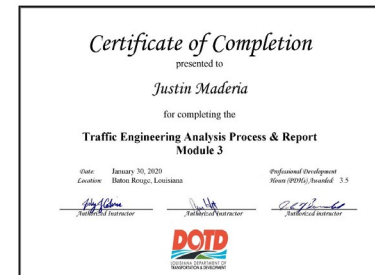
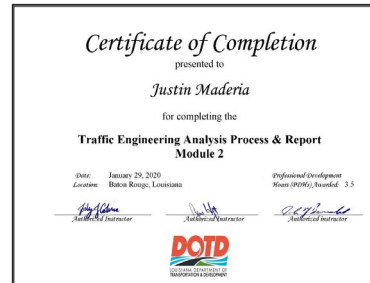
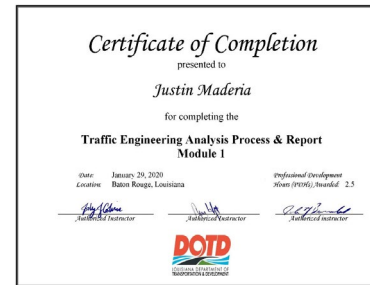
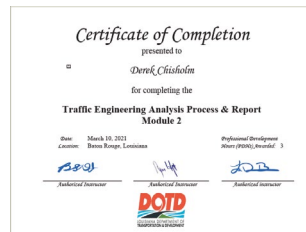
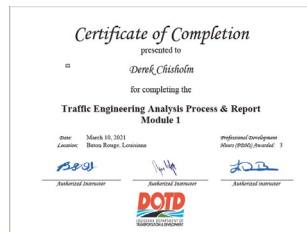


REQUIRED personnel under Traffic Heading(s) TEPR Certifications

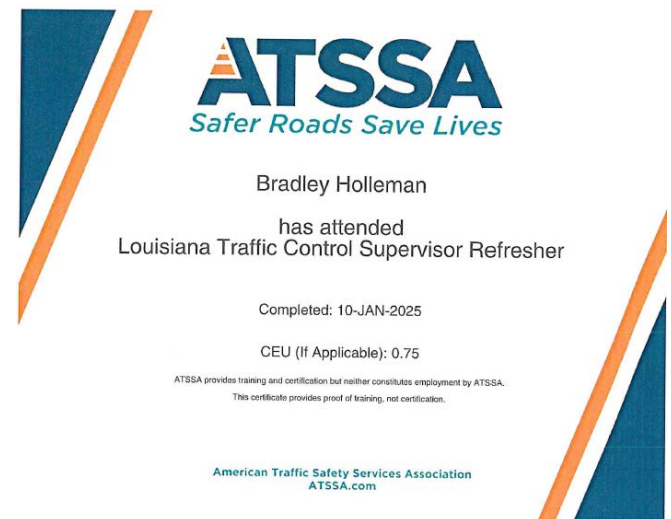
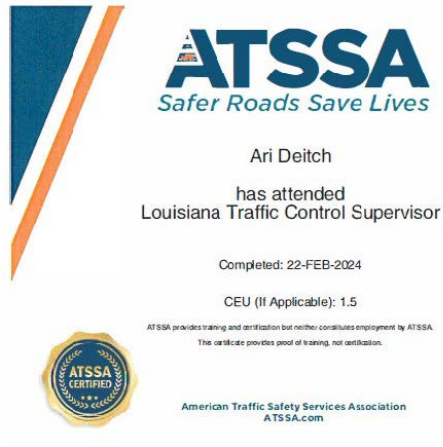


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ADDITIONAL personnel under Traffic Heading(s) TEPR Certifications



ATSSA Certifications

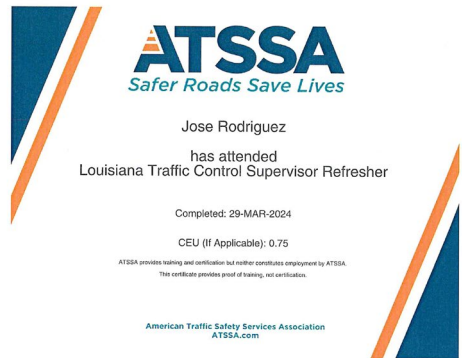






Section left intentionally blank.

ATSSA Certifications



ATSSA Certifications



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Max Aguirre
has attended
Traffic Control Supervisor-LA State Specific
Training Course

9/8/2021 to 9/9/2025
Training Valid Through

Baton Rouge, LA
Location

Ramona Smith
Director of Training

Abbas Teshkhan
President, CEO

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



American Traffic Safety Services Association ATSSA.com



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Peter Bakhit
has attended
Traffic Control Technician-LA State Specific
Training Course

9/7/2021 to 9/7/2025
Training Valid Through

Baton Rouge, LA
Location

Ramona Smith
Director of Training

Abbas Teshkhan
President, CEO

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



American Traffic Safety Services Association ATSSA.com

ATSSA Certifications



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Peter Bakhit
has attended
Traffic Control Supervisor-LA State Specific
Training Course

9/8/2021 to 9/9/2025
Training Valid Through

Baton Rouge, LA
Location

Ramona Smith
Director of Training

Alexander Teichman
President, CEO

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



American Traffic Safety Services Association ATSSA.com



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ross Wilson
has attended
Traffic Control Supervisor-LA State Specific
Training Course

4/5/2023 to 4/5/2027
Training Valid Through

Baton Rouge, LA
Location

Ramona Smith
Director of Training

Alexander Teichman
President, CEO

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



American Traffic Safety Services Association ATSSA.com

ATSSA Certifications



Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

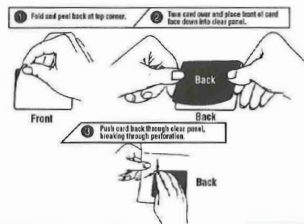
We commend you on your decision to become an ATSSA Certified Flagger. This distinction reflects that you have been trained by the leader in roadway safety and also entitles you to be listed on our National Flagger Database. Please review your state requirements for expiration of your flagger card. Also, please inform us of any errors or changes in your name or address so we may keep our records up to date.

Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:



American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com

Certificate of Training

this certifies that

Gregory Trahan

has successfully completed the training
program requirements for

National Flagger Certification Training Course



Awarded on this **11th** day of **May** 2023

This certificate is valid for 30 days from the date awarded.

ATSSA Certifications



Beginning Jan. 1, 2022, all flagger cards shall include a serial number. Cards issued without a serial number will not be accepted.

**National flagger certification cards shown below. Utah cards have a slightly different appearance. All serial numbers are exactly 11 characters (1 letter + 10 numbers).*

Flagger Verification Search

By Flagger Number Beginning with "A":
A1000126301

By Flagger Number Beginning with "V":

Last Name
McDowell

SEARCH

Search Results

Contact	Program	Beg Date	End Date	ATSSA Flagger Number	Trainer Flagger Number
Jonathan G McDowell	National Flagger	5/11/2023	5/10/2027	A1000126301	



Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

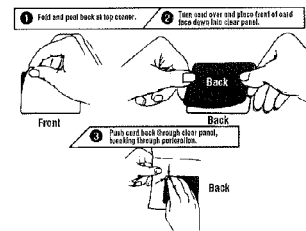
We commend you on your decision to become an ATSSA Certified Flagger. This distinction reflects that you have been trained by the leader in roadway safety and also entitles you to be listed on our National Flagger Database. Please review your state requirements for expiration of your flagger card. Also, please inform us of any errors or changes in your name or address so we may keep our records up to date.

Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:



	American Traffic Safety Services Association
This is to affirm that	
Laurence Lambert	
has satisfied the requirements to be designated as a	
CERTIFIED FLAGGER	
ATSSA	
Issue Date	5/9/2023
Exp. Date	5/8/2027
State Issued	LA
A1000126196	
Verify at Flagger.com	

American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com



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NIH NEPA Certifications



National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

**NHI Course No. 142005 -
NEPA and Transportation Decision Making**

hosted by

LA DOTD/LTRC



Date: May 28-30, 2014

Location: Baton Rouge, LA

Hours of Instruction: 18

[Signature]

Instructor

[Signature]

Local Coordinator

[Signature]

Instructor

[Signature]

Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

**FHWA - NHI Course No. 380071 -
Interactive Highway Safety Design Model (IHSDM)**

hosted by

Louisiana Department of Transportation and Development



Date: May 9-10, 2012

Location: Baton Rouge, LA

Hours of Instruction: 12

[Signature]

Instructor

[Signature]

Local Coordinator

[Signature]

Instructor

[Signature]

Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training

Akhilendra Chauhan

has participated in

**NHI Course No. 380075 -
New Approaches to Highway Safety Analysis**

hosted by

LA DOTD/LTRC



Date: October 9-11, 2012

Location: Baton Rouge, LA

Hours of Instruction: 18

[Signature]

Instructor

[Signature]

Local Coordinator

[Signature]

Instructor

[Signature]

Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

**FHWA - NHI Course No. 133078
Access Management, Location and Design (3 day)**

hosted by

LA DOTD/LTRC



Date: January 6-8, 2015

Location: Baton Rouge, LA

Hours of Instruction: 18

[Signature]

Instructor

[Signature]

Local Coordinator

[Signature]

Instructor

[Signature]

Valerie Briggs, Director
National Highway Institute



National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

**NHI Course No. FHWA-NHI-380106
Highway Safety Manual Online Overview**

hosted by

National Highway Institute



Date: 7/18/2012

Location: Web-Based Course

Hours of Instruction: 12 hours

[Signature]

Instructor

[Signature]

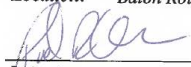
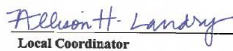
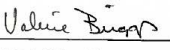
Local Coordinator

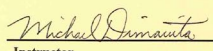
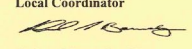
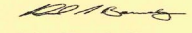
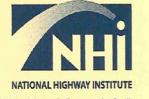
[Signature]

Instructor

[Signature]

Richard J. Barnaby, Director
National Highway Institute

	National Highway Institute Certificate of Training ARI DEITCH <i>has participated in</i> FHWA-NHI-133121 Traffic Signal Design and Operation <i>hosted by</i> LA DOTD/LTRC Date: August 16-17, 2017 Hours of Instruction: 11 Location: Baton Rouge, LA  Instructor  Instructor  Local Coordinator  Valerie Briggs, Director National Highway Institute	
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	National Highway Institute Certificate of Training Brin Ferlito <i>has participated in</i> FHWA - NHI Course No. 380071 - Interactive Highway Safety Design Model (IHSDM) <i>hosted by</i> Louisiana Department of Transportation and Development Date: May 9-10, 2012 Hours of Instruction: 12 Location: Baton Rouge, LA  Instructor  Instructor  Local Coordinator  Richard Barnaby, Director National Highway Institute	
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	National Highway Institute Certificate of Training <i>Derek Chisholm</i> has participated in FHWA-NHI-142005 NEPA and Transportation Decision-Making hosted by Tennessee Department of Transportation  <i>Manuel Bordnville</i> Instructor <i>Valerie Briggs</i> Valerie Briggs, Director National Highway Institute <i>Alley</i> Instructor	
---	---	--

	National Highway Institute Certificate of Training JAN HUGHES has participated in FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process hosted by LA DOTD/LTRC <i>Alison H. Landry</i> Local Coordinator <i>Stacey J. Caston</i> Stacey J. Caston, Director National Highway Institute <i>Katly Brumgar</i> Instructor	
---	---	---



National Highway Institute

Certificate of Training

Jonathan McDowell

has participated in

NHI Course No. 142005 –

NEPA and Transportation Decision Making

hosted by

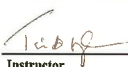
LA DOTD/LTRC



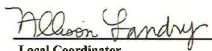
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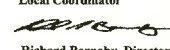
Location: Baton Rouge, LA

Hours of Instruction: 18


Instructor


Instructor


Local Coordinator


Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training

Kimberly Arcement

has participated in

NHI Course No. 142005 -

NEPA and Transportation Decision Making

hosted by

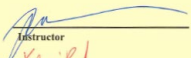
LA DOTD/LTRC

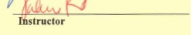


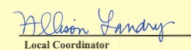
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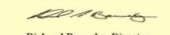
Location: Baton Rouge, LA

Hours of Instruction: 18


Instructor


Instructor


Local Coordinator


Richard Barnaby, Director
National Highway Institute

Professional Traffic Operations Engineer (PTOE) Certifications

Transportation Professional Certification Board Inc.

certifies that

Akhilendra Singh Chauhan

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

*Unless withdrawn by the Certification Board this certificate number 2544
issued in Washington, D.C. is subject to the provisions for renewal
November 24, 2008*

Steven D. Hofener
Chair



James W. Phillips
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Transportation Planner

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 690 issued in Washington, DC, USA*

07/17/2019

Diane M. Morabito
Chair



Jeffrey F. Denisti
Executive Director

Professional Traffic Operations Engineer (PTOE) Certifications

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal
Certificate number 43416 issued in Washington, D.C., U.S.A.*

11/2017

Michael F. Clark
Chair




Jeffrey F. Benetti
Executive Director



The Transportation Professional Certification Board

Certifies that

Ms. Sheelagh B. Ferlito, P.E., PTOE

successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 9/9/2009

Certification Valid Through: 9/9/2027



Steve Kuciemba,
Executive Director and CEO



Joseph C. Baskus, P.E., PTOE, RSPI
TPCB Chair

Certification Number: 932

Professional Traffic Operations Engineer (PTOE) Certifications

Transportation Professional Certification Board, Inc.

certifies that

Clara Foshee

*has met all of the requirements established by the Certification Board
to use the title of*

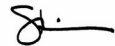
Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 6800 issued in Washington, DC, U.S.A.*

11/13/24


Joseph C. Balch
Chair




Steve Kaciamba
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Justin M. Maderia

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Transportation Planner

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 604 issued in Washington, DC, U.S.A.*

7/19/17


Michael R. Park
Chair




Jeffrey F. Donati
Executive Director

Professional Traffic Operations Engineer (PTOE) Certifications

Transportation Professional Certification Board Inc.

certifies that

Justin M. Maderia

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3455 issued in Washington, D.C. U.S.A.

July 22, 2013

Timothy D. Harpoot
Chair



James W. Smith
Executive Director



The Transportation Professional Certification Board

Certifies that

Mr. Laurence L. Lambert, II, P.E., PTOE, PTP

successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 2/3/2004

Certification Valid Through: 2/3/2028

Steve Kuciemba,
Executive Director and CEO

Joseph C. Baskus, P.E., PTOE, RSPI
TPCB Chair

Certification Number: 1303

Professional Traffic Operations Engineer (PTOE) Certifications

Transportation Professional Certification Board, Inc.

certifies that

Max Aguirre

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 5291 issued in Washington, DC, U.S.A*

7/13/2022

Deborah Snyder
Deborah Snyder
Chair



Jeffrey F. Paniati
Jeffrey F. Paniati
Executive Director



The Transportation Professional Certification Board

Certifies that

Max Aguirre, Ph.D., PE, PTOE, RSP2I

successfully renewed the Road Safety Professional Infrastructure® (Level 2) certification

Original Certification Date: 7/9/2024

Certification Valid Through: 7/9/2027

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 182

Professional Traffic Operations Engineer (PTOE) Certifications



The Transportation Professional Certification Board

Certifies that

Dr. Peter Bakhit, P.E., PTOE

successfully renewed the Professional Traffic Operations Engineer® certification

Original Certification Date: 7/9/2024

Certification Valid Through: 7/9/2027

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Baskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 5713



The Transportation Professional Certification Board

Certifies that

Mr. Sridhar Basetty, P.E., PTOE, PTP

successfully renewed the Professional Traffic Operations Engineer® certification

Original Certification Date: 8/1/2014

Certification Valid Through: 8/1/2026

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Baskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 3682

Transportation Professional Certification Board, Inc.

certifies that

Sridhar Basetty

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Transportation Planner

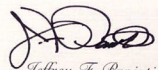
unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 526 issued in Washington, D.C., U.S.A.

7/18/2016


Kenneth W. Achert
Chair




Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board Inc.

certifies that

Tait K. Karlson

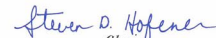
*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3091 issued in Washington, D.C., U.S.A.

July 20, 2011


Steven D. Hofener
Chair




Dennis W. H. H. H.
Executive Director

Professional Traffic Operations Engineer (PTOE) Certifications



The Transportation Professional Certification Board

Certifies that

Mr. Robert William Schmidt, P.E., PTOE

successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 5/2/2012

Certification Valid Through: 5/2/2027

Steve Kuciemba,
Executive Director and CEO

Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 3189

Section left intentionally blank.

Road Safety Professional Certifications (RSPs)

Transportation Professional Certification Board, Inc.

certifies that

Ari Jacob Deitch

*has met all of the requirements established by the Certification Board
to use the title of*

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 87 issued in Washington, DC, USA

12/21/2018

Diane W. Morabito
Diane W. Morabito
Chair



Jeffrey F. Pariani
Jeffrey F. Pariani
Executive Director



The Transportation Professional Certification Board

Certifies that

Gregory Dale Trahan, P.E., RSP1

successfully holds the Road Safety Professional® (Level 1) certification

Original Certification Date: 3/14/2022

Certification Valid Through: 3/14/2028

A blue ink signature of Steve Kuciemba.

Steve Kuciemba,
Executive Director and CEO

A blue ink signature of Joseph C. Baskus.

Joseph C. Baskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 833

Transportation Professional Certification Board, Inc.

certifies that

Meredith Guidry

*has met all of the requirements established by the Certification Board
to use the title of*

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 867 issued in Washington, DC, USA

7/13/2022

Deborah Snyder
Chair



Jeffrey F. Piniati
Executive Director

Section left intentionally blank.

Road Safety Professional Certifications (RSPs)



The Transportation Professional Certification Board

Certifies that

Max Aguirre, Ph.D., PE, PTOE, RSP2I

successfully renewed the Road Safety Professional Infrastructure® (Level 2) certification

Original Certification Date: 7/9/2024

Certification Valid Through: 7/9/2027

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Baskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 182

Section left intentionally blank.

Secretary of State Documentation

State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
AECOM TECHNICAL SERVICES, INC.	Business Corporation (Non-Louisiana)	LOS ANGELES	Active

Previous Names

EARTH TECH, INC. (OF CALIFORNIA) (Changed: 12/8/2008)

Business: AECOM TECHNICAL SERVICES, INC.

Charter Number: 34545989F

Registration Date: 12/20/1996

Domicile Address

515 S. FLOWER ST.
SUITE 1050
LOS ANGELES, CA 90071

Mailing Address

300 SOUTH GRAND AVENUE, 9TH FLOOR
LOS ANGELES, CA 90071

Principal Business Office

300 SOUTH GRAND AVENUE, 9TH FLOOR
LOS ANGELES, CA 90071

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

5615 CORPORATE BLVD., STE. 400B
BATON ROUGE, LA 70808

Status

Status: Active

Annual Report Status: In Good Standing

Qualified: 12/20/1996

Last Report Filed: 11/21/2024

Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816

Appointment Date: 12/20/1996

Officer(s)

Additional Officers: No

Officer: MATTHEW CRANE
Title: President, Director
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: ARMOND TATEVOSSIAN
Title: Director, Secretary
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: ALLISON HALL
Title: Treasurer, Director, Officer
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: KARL JENSEN
Title: Director
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: ANDREW CEITLIN
Title: Officer
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: KENNETH V. BUTLER
Title: Officer
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Officer: JOHN J. CARDONI
Title: Officer
Address 1: 300 SOUTH GRAND AVENUE, 9TH FLOOR
City, State, Zip: LOS ANGELES, CA 90071

Amendments on File (5)

Description	Date
Stmnt of Chg or Chg Prin Bus Off	1/29/2008
Name Change	12/8/2008
Stmnt of Chg or Chg Prin Bus Off	10/18/2015
Disclosure of Ownership	7/25/2016
Appointing, Change, or Resign of Officer	5/3/2021

Print

Secretary of State Documentation

State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

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

Previous Names

ARCADIS G&M, INC. (Changed: 1/4/2007)
ARCADIS GERAGHTY & MILLER, INC. (Changed: 6/12/2001)

Business: ARCADIS U.S., INC.

Charter Number: 34610353F

Registration Date: 2/5/1998

Domicile Address

222 DELAWARE AVENUE, SUITE 1110
WILMINGTON, DE 19801

Mailing Address

C/O LEGAL DEPT.
110 WEST FAYETTE ST., SUITE 300
SYRACUSE, NY 13202

Principal Business Office

630 PLAZA DR., SUITE 200
HIGHLANDS RANCH, CO 80129

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

6100 CORPORATE BLVD., SUITE 325
BATON ROUGE, LA 70816

Status

Status: Active

Annual Report Status: In Good Standing

Qualified: 2/5/1998

Last Report Filed: 2/14/2025

Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816

Appointment Date: 2/5/1998

Officer(s)

Additional Officers: No

Officer: WASSIM SELMAN
Title: Director
Address 1: 2839 PACES FERRY ROAD, STE 900
City, State, Zip: ATLANTA, GA 30339

Officer: JOHN MCCARTHY
Title: Director, President
Address 1: 44 SOUTH BROADWAY, SUITE 1200
City, State, Zip: WHITE PLAINS, NY 10601

Officer: NILESH PARMAR
Title: Director
Address 1: 4301 NORTH FAIRFAX DRIVE, SUITE 530
City, State, Zip: ARLINGTON, VA 22203

Officer: JESSICA NEWTON
Title: Treasurer
Address 1: 630 PLAZA DRIVE, SUITE 200
City, State, Zip: HIGHLANDS RANCH, CO 80129

Officer: ROBYN MILLER
Title: Secretary
Address 1: 333 HOPE STREET, SUITE C-200
City, State, Zip: LOS ANGELES, CA 90071

Officer: ALEXANDER ROTHCHILD
Title: Director
Address 1: 213 COURT STREET, SUITE 700
City, State, Zip: MIDDLETOWN, CT 06457

Amendments on File (9)

Description	Date
Disclosure of Ownership	5/31/2000
Name Change	6/12/2001
Name Change	1/4/2007
Stmnt of Chg or Chg Prin Bus Off	1/29/2008
Disclosure of Ownership	5/30/2014
Stmnt of Chg or Chg Prin Bus Off	2/25/2015
Stmnt of Chg or Chg Prin Bus Off	10/18/2015
Disclosure of Ownership	3/2/2022
Disclosure of Ownership	3/2/2022

Print

Secretary of State Documentation

State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

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

Previous Names

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

Domicile Address

8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809

Mailing Address

3475 E. FOOTHILL BLVD.
PASADENA, CA 91107

Principal Business Office

8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

316 HIGHLANDIA DR.
BATON ROUGE, LA 70816

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 12/13/1991
Last Report Filed: 11/19/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment Date: 12/13/1991

Officer(s)

Additional Officers: No

Officer: MOHAMAD AL-HAWAREE
Title: President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: DAN L. BATRACK
Title: Vice-President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: WILLIAM R. BROWNLIE
Title: Vice-President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: STEVEN M. BURDICK
Title: Treasurer
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: FRANCIS K. CHEUNG
Title: Vice-President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: ERNEST A. COX, III
Title: Officer
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: CHARLES H. CUNNINGHAM
Title: Vice-President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: ROBERT E. DODSON
Title: Officer
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: JOHN E. GARLANGER
Title: Officer
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: VIRGINIA A. GOFF
Title: Officer
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Officer: RODRIGO HOME
Title: Vice-President
Address 1: 3475 E. FOOTHILL BLVD.
City, State, Zip: PASADENA, CA 91107

Secretary of State Documentation

Officer:	ASHBY HOOVER
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	PRESTON HOPSON
Title:	Secretary
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	EVELIO N. HORTA
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	THOMAS S. INGRA
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	ROBERT E. JEWELL
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	COLIN T. JEWSBURY,
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	RICHARD A. LEMMON
Title:	Vice-President, Director
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	THOMAS J. LETO
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	JASON P. MANNING
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	MARTIN E. MILLBURG
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	JASON M. PARKER
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107

Officer:	ASHRAF H. RIAD
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	REINALDO ROLO
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	ROBERT E. ROUSSET
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	BRIAN D. RUNKLES
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	RAJENDRA K. SHRESTHA
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	IVAN SOKOLIC
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	MICHAEL WILSON
Title:	Vice-President
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	MARK ZRALLACK
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	AMR SALLAM
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	ETHAN DREW
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107
Officer:	EVELIO HORTA JR.
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107

Secretary of State Documentation

Officer:	IRFAN RIYAJ
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107

Officer:	JEYISANKER MATHIYAPARANAM
Title:	Officer
Address 1:	3475 E. FOOTHILL BLVD.
City, State, Zip:	PASADENA, CA 91107

Amendments on File (7)

Description	Date
Stmt of Chg or Chg Prin Bus Off	2/1/1993
Revoked	3/21/2003
Reinstatement	12/31/2003
Stmt of Chg or Chg Prin Bus Off	1/29/2008
Disclosure of Ownership	8/21/2008
Merger	9/22/2009
Stmt of Chg or Chg Prin Bus Off	10/18/2015

Print

Commercial - Search - Work - Microsoft Edge

https://conweb.sos.la.gov/CommercialSearch/CommercialSearchDetails_Print.aspx?CharterID=388416_EAG3DX418E

State of Louisiana
Secretary of State

COMMERCIAL DIVISION
225.625.4704
Eag. Builders
225.625.8337 (Admin. Services)
225.625.8334 (Corporations)
225.625.5338 (SIC)

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

Business: ARCUMIN & ASSOCIATES, INC.
Charter Number: 343960237
Registration State: 12/13/1991
Domestic Address
8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809
Hailing Address
3475 E. FOOTHILL BLVD.
PASADENA, CA 91107
Principal Business Office
8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809
Registered Office in Louisiana
3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816
Principal Business Establishment in Louisiana
338 HIGHLANDIA DR.
BATON ROUGE, LA 70816

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 12/13/1991
Last Report Filed: 12/16/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment: 12/13/1991

Officer(s)

Officer: MONSIEUR AL HEBBARIE
Title: President

Additional Officers: 0

9:59 AM
4/23/2025

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Name	Type	City	Status
BURNS COOLEY DENNIS, INC.	Business Corporation (Non-Louisiana)	RIDGELAND	Active

Previous Names

Business: BURNS COOLEY DENNIS, INC.
Charter Number: 34407872F
Registration Date: 5/22/1992

Domicile Address
551 SUNNYBROOK RD.
RIDGELAND, MS 39157

Mailing Address
PO BOX 12828
JACKSON, MS 39236

Principal Business Office
551 SUNNYBROOK RD.
RIDGELAND, MS 39157

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

Principal Business Establishment in Louisiana
3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 5/22/1992
Last Report Filed: 4/23/2024
Type: Business Corporation (Non-Louisiana)

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Name	Type	City	Status
DAN BROWN AND ASSOCIATES, LLC	Limited Liability Company (Non-Louisiana)	KNOXVILLE	Active

Previous Names

DAN BROWN AND ASSOCIATES, P.C. PROFESSIONAL CORPORATION (Changed: 1/20/2023)

Business: DAN BROWN AND ASSOCIATES, LLC
Charter Number: 40785702Q
Registration Date: 3/22/2012

Domicile Address

6424 BAUM DRIVE
KNOXVILLE, TN 37919

Mailing Address

6424 BAUM DRIVE
KNOXVILLE, TN 37919

Principal Business Office

6424 BAUM DRIVE
KNOXVILLE, TN 37919

Registered Office in Louisiana

4459B BLUEBONNET BLVD.
BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana

4459B BLUEBONNET BLVD.
BATON ROUGE, LA 70809

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 3/22/2012
Last Report Filed: 4/15/2025
Type: Limited Liability Company (Non-Louisiana)

Registered Agent(s)

Agent: COGENCY GLOBAL INC.
Address 1: 4459B BLUEBONNET BLVD.
City, State, Zip: BATON ROUGE, LA 70809
Appointment Date: 9/20/2023

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Officer(s)

Additional Officers: No

Officer: OBSIDIAN GROUP ACQUISITIONS, INC.
Title: Member
Address 1: CORPORATE HEADQUARTERS
Address 2: 4205 VINELAND RD., ST. L1
City, State, Zip: ORLANDO, FL 32811

Amendments on File (5)

Description	Date
Stmnt of Chg or Chg Prin Bus Off	11/22/2019
Conversion	1/20/2023
Name Change	1/20/2023
Foreign LLC Statement of Change	9/1/2023
Foreign LLC Statement of Change	9/20/2023

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Name	Type	City	Status
FAHRENHEIT CREATIVE GROUP LLC	Limited Liability Company (Non-Louisiana)	JACKSON	Active

Previous Names

Business: FAHRENHEIT CREATIVE GROUP LLC
Charter Number: 42108162Q
Registration Date: 12/21/2015

Domicile Address

620 N. STATE STREET
JACKSON, MS 39202

Mailing Address

620 N. STATE STREET
JACKSON, MS 39202

Principal Business Office

620 N. STATE STREET
JACKSON, MS 39202

Registered Office in Louisiana

5160 LACOUR MONIQUE STREET
NEW ORLEANS, LA 70131

Principal Business Establishment in Louisiana

5160 LACOUR MONIQUE STREET
NEW ORLEANS, LA 70131

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 12/21/2015
Last Report Filed: 11/21/2024
Type: Limited Liability Company (Non-Louisiana)

Registered Agent(s)

Agent: EDDIE BROWN
Address 1: 5160 LACOUR MONIQUE STREET
City, State, Zip: NEW ORLEANS, LA 70131

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Appointment Date: 12/21/2015

Officer(s)

Additional Officers: No

Officer: JASON THOMPSON
Title: Manager
Address 1: 620 N. STATE STREET
City, State, Zip: JACKSON, MS 39202

Amendments on File

No Amendments on file

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

Previous Names
Business: FORTE AND TABLADA, INC.
Charter Number: 25306090D
Registration Date: 2/8/1961

Domicile Address
9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Mailing Address
9107 INTERLINE AVE.
BATON ROUGE, LA 70809

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

Status
Status: Active
Annual Report Status: In Good Standing
File Date: 2/8/1961
Last Report Filed: 1/9/2025
Type: Business Corporation

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Name	Type	City	Status
HUVAL & ASSOCIATES, INC.	Business Corporation	LAFAYETTE	Active

Previous Names
Business: HUVAL & ASSOCIATES, INC.
Charter Number: 343519490
Registration Date: 3/21/1990

Domicile Address
922 W. PONT DES MOUTON RD.
LAFAYETTE, LA 70507

Mailing Address
C/O DAVID S. HUVAL, SR.
922 W. PONT DES MOUTON RD.
LAFAYETTE, LA 70507

Principal Office Address
922 W. PONT DES MOUTON RD.
LAFAYETTE, LA 70507

Status
Status: Active
Annual Report Status: In Good Standing
File Date: 3/21/1990
Last Report Filed: 3/24/2025
Type: Business Corporation

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Name	Type	City	Status
THE LAKVOLD GROUP LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names
Business: THE LAKVOLD GROUP LLC
Charter Number: 34882713K
Registration Date: 1/24/2000

Domicile Address
4520 JAMESTOWN AVENUE, SUITE 1
BATON ROUGE, LA 70808

Mailing Address
C/O 4520 JAMESTOWN AVENUE, SUITE 1
ANGELA LEMOINE-LAKVOLD
BATON ROUGE, LA 70808

Status
Status: Active
Annual Report Status: In Good Standing
File Date: 1/24/2000
Last Report Filed: 12/26/2024
Type: Limited Liability Company

Registered Agent(s)

Agent:	DAVID EARL LAKVOLD
Address 1:	6812 SOUTH WOODGATE COURT
City, State, Zip:	BATON ROUGE, LA 70808
Appointment Date:	1/24/2000

Agent:	ANGELA LEMOINE-LAKVOLD
Address 1:	6812 SOUTH WOODGATE COURT
City, State, Zip:	BATON ROUGE, LA 70808
Appointment Date:	10/20/2022

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Nancy Landry Secretary of State		LIMITED LIABILITY COMPANY ANNUAL REPORT For Period Ending 11/20/2024		 35595664Q	
		 7074		(INDICATE CHANGES TO THIS ADDRESS IN THIS BOX) Domicile Street Address in State Where Organized (Do not use P. O. Box) 205 RUSHLEY ROAD ARNOLD, MD 21012	
Mailing Address Only (INDICATE CHANGES TO THIS ADDRESS IN THIS BOX) 35595664 Q LOCUS, LLC 205 RUSHLEY ROAD ARNOLD, MD 21012		1		Federal Tax ID Number	
Our records indicate the following registered agents for this company. Indicate any changes or deletions below. All agents must have a Louisiana address. Do not use a P. O. Box. A NEW REGISTERED AGENT REQUIRES A NOTARIZED SIGNATURE. STERNBERG, NACCARI & WHITE, LLC 935 GRAVIER STREET SUITE 2020 NEW ORLEANS, LA 70112					
I hereby accept the appointment of registered agent(s).		Sworn to and subscribed before me on NOTARY NAME MUST BE TYPED OR PRINTED WITH NOTARY #			
New Registered Agent Signature		Notary Signature		Date	
This report reflects a maximum of three members/managers for the company. Indicate any changes or deletions below. Include a listing of all names and addresses. Do not use a P. O. Box. If additional space is needed attach an addendum. Officer titles, such as president or secretary are not acceptable. LAURA BURKE 205 RUSHLEY ROAD ARNOLD, MD 21012 Manager, Member					
Our records indicate the following addresses for the corporation. Indicate any changes below. Principal business office wherever located: 205 RUSHLEY RD, ARNOLD, MD 21012 Registered office in Louisiana (Must be the same as agent's address): 935 GRAVIER STREET SUITE 2020 NEW ORLEANS, LA 70112 Principal business establishment in Louisiana (Do not use a P. O. Box): 434 E LOCKWOOD STREET COVINGTON, LA 70433-2829					
The filing of a false public record, with the knowledge of its falsity, is a crime, subjecting the filer to the fine or imprisonment or both under R.S. 14:133.					
SIGN →	To be signed by authorized individual Laura D. Burke (SIGNED ELECTRONICALLY)		Title Managing Partner	Phone	Date 11/04/2024
	Signee's address		Email Address ON FILE		(For Office Use Only)
Enclose filing fee of \$30.00 Make remittance payable to Secretary of State Do Not Send Cash Do Not Staple web site: www.sos.louisiana.gov		Return by: 11/20/2024 To: Commercial Division P. O. Box 94125 Baton Rouge, LA 70804-9125 Phone (225) 925-4704		1	

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Name	Type	City	Status
MARMILLION GRAY MEDIA, INC.	Business Corporation	BATON ROUGE	Active
Previous Names Business: MARMILLION GRAY MEDIA, INC. Charter Number: 35935615D Registration Date: 5/9/2005			
Domicile Address 2333 WISTERIA STREET BATON ROUGE, LA 70806			
Mailing Address C/O RANNAH GRAY P.O. BOX 65346 BATON ROUGE, LA 70806			
Principal Office Address 2333 WISTERIA STREET BATON ROUGE, LA 70806			
Status Status: Active Annual Report Status: In Good Standing File Date: 5/9/2005 Last Report Filed: 6/27/2024 Type: Business Corporation			

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

Previous Names

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

Domicile Address

4467 BLUEBONNET BLVD.
SUITE A
BATON ROUGE, LA 708099639

Mailing Address

PO BOX 14269
BATON ROUGE, LA 70898

Status

Status: Active
Annual Report Status: In Good Standing
File Date: 8/24/2015
Last Report Filed: 7/26/2024
Type: Limited Liability Company

Registered Agent(s)

Agent: SHEELAGH BRIN FERLITO
Address 1: 4467 BLUEBONNET BLVD
Address 2: SUITE A
City, State, Zip: BATON ROUGE, LA 708099639
Appointment Date: 8/15/2018

Officer(s)

Additional Officers: No

Officer: SHEELAGH BRIN FERLITO
Title: Manager
Address 1: 4467 BLUEBONNET BLVD
Address 2: SUITE A
City, State, Zip: BATON ROUGE, LA 708099639

Officer: LAURENCE LAMBERT
Title: Member

Address 1: 4467 BLUEBONNET BLVD
Address 2: SUITE A
City, State, Zip: BATON ROUGE, LA 708099639

Amendments on File (1)

Description	Date
Domestic LLC Agent/Domicile Change	6/8/2023

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Disadvantaged Business Enterprise (DBE) Certification(s)

		
LOUISIANA UNIFIED CERTIFICATION PROGRAM		
Disadvantaged Business Enterprise Program (DBE)		
Small Business Element (SBE)		
This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)		
<u>The Lakvold Group, LLC</u>		
Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:		
NC531320		
NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.		
Certificate Eligibility: July 2024 to July 2025		
This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.		
		
Rhonda Wallace, DBE/SBE Programs Manager		
<i>Louisiana Department of Transportation & Development</i>		

		
LOUISIANA UNIFIED CERTIFICATION PROGRAM		
Disadvantaged Business Enterprise Program (DBE)		
Small Business Element (SBE)		
This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)		
<u>Marmillion Gray Media, Inc.</u>		
Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:		
NC541820		
NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.		
Certificate Eligibility: February 2025 to February 2026		
This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.		
		
Rhonda Wallace, DBE/SBE Programs Manager		
<i>Louisiana Department of Transportation & Development</i>		

Disadvantaged Business Enterprise (DBE) Certification(s)



Section left intentionally blank.

21. QA/QC Plan and/or Work Plan

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

QA/QC Section N/A.

22. Subconsultant information

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Arcadis U.S., Inc.	6100 Corporate Blvd., Suite 325, Baton Rouge, LA 70808	Akhil Chauhan, PE, PTOE, PTP, PMP akhil.chauhan@arcadis.com	225.368.6563
Ardaman & Associates, Inc.	316 Highlandia Drive, Baton Rouge, LA 70810	Robert Jewell, RJewell@ ardaman.com	225.666.4598
Burns Cooley Dennis, Inc.	551 Sunnybrook Road, Ridgeland, MS 39157	Alexis (Eddie) Templeton, PE etempleton@bcdgeo.com	601.856.9911
Dan Brown and Associates, LLC	2563 Willow Point Way, Knoxville, TN 37931	Paul Axtell, PE, BC.GE, paxtell@dba.world	816.210.1954
Fahrenheit Creative Group LLC	620 N. State Street Jackson, MS 39202	Jason Thompson jthompson@fcgworks.com	601.940.7059
Huval & Associates, Inc.	922 West Pont Des Mouton Road, Lafayette, LA 70507	Colby Guidry, PE cguidry@huvalassoc.com	337.234.3798
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 7080	Russell J. "Joey" Coco, Jr. jcoco@forteandtablada.co	225.927.9321
Locus, LLC	434 E. Lockwood Street Covington, LA 70433	George Burkley, gburkley@locus-mpi.com	443.306.4991
Marmillon Gray Media, Inc.	2333 Wisteria Street Baton Rouge, LA 70806	Rannah Gray rannah@rannahgray.com	225.381.3036
The Lakvold Group LLC	4520 Jamestown Avenue, Suite 1, Baton Rouge, LA 70808	Angela Lemoine-Lakvold angie@thelakvoldgroup.com	225.248.9984 (o) 225.603.5515 (c)
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A, Baton Rouge, LA 70809	Brin Ferlito, PE, PTOE bferlito@vecturacs.com	225.223.6685

23. Location

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

Section left intentionally blank.

About AECOM

AECOM is the global infrastructure leader, committed to delivering a better world. As a trusted professional services firm powered by deep technical capabilities, we solve our clients' complex challenges in water, environment, energy, transportation and buildings. Our teams partner with public and private-sector clients to create innovative, sustainable and resilient solutions throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. AECOM is a Fortune 500 firm that had revenue of \$16.1 billion in fiscal year 2024.