



PROPOSAL FOR

IDIQ CONTRACTS FOR BRIDGE LOAD RATING SERVICES STATEWIDE

CONTRACT NOS. 4400036211, 4400036212, 4400036213, AND 4400036214

Submitted to:

**Louisiana Department of
Transportation and Development**

Submitted by:

AECOM Technical Services, Inc.

**DELIVERING
A BETTER
WORLD.**



August 25, 2026

Louisiana Department of Transportation and Development (DOTD)
Attn: William Metcalf, Contract Manager
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

RE: CONTRACT NOS. 4400036211, 4400036212, 4400036213, AND 4400036214 IDIQ CONTRACTS FOR BRIDGE LOAD RATING SERVICES STATEWIDE

Dear Mr. Metcalf and Members of the Project Evaluation Team:

LADOTD needs load rating partners that can keep multiple task orders moving while applying consistent engineering judgment across a statewide inventory that varies widely in condition, complexity, and available documentation. AECOM Technical Services, Inc. (AECOM) knows each task order will bring different challenges, from missing information and deterioration to structures that cannot be fully analyzed in BrR. Our team is prepared to address those differences while producing consistent, well-documented ratings that support clear posting and mitigation decisions.

Proven at Scale, Focused on Every Assignment | Project Manager Brett Canimore has successfully led and managed load rating and complex bridge inspections for the LADOTD since 2014 and led 50 DOT load rating projects encompassing more than 15,000 bridges. Technical Lead Jason Zimpfer has rated more than 2,000 bridges across 22 states, and Henry Fix, QA/QC Lead has developed and delivered load rating training for PennDOT engineers. They are supported by more than 200 AECOM bridge engineers, load raters, and bridge inspectors. This includes 10 SPRAT-certified rope access technicians, providing specialized access and inspection support when a task order involves difficult or complex structures. **LADOTD can rely on Brett, Jason, and the AECOM team to bring the judgment that comes from repeating this process thousands of times, from reviewing bridge records and validating models to resolving QC comments and delivering a rating that can be readily updated and reused.**

Expertise for Every Bridge Type | AECOM has performed bridge load ratings in 43 states for state agencies and departments of transportation, covering complex bridge types that include movable, conventional span, truss, and cable-stayed structures. Recently, AECOM has completed load ratings for more than 125 bridges across Louisiana, including bascule, swing, and pontoon movable bridge structures. This gives the AECOM team current, firsthand knowledge of LADOTD's standards, bridge records, and review expectations. We bring particularly strong experience with rail and transit bridges, where stringent rating requirements, fatigue considerations, specialized live loads, and aging structural components demand careful engineering judgment. Our team also evaluates heritage and hard-to-model structures, including masonry, jack-arch, and multi-span through-girder bridges, where geometry, boundary conditions, and composite action must be carefully validated to produce defensible ratings. **For LADOTD, this means having complete confidence that you have a load rating partner with the right expertise readily available, regardless of the bridge type or complexity of the task order.**

AECOM brings together the field, rating, design, and independent review expertise needed to carry each assignment from record retrieval through final recommendations. Safety and quality are built into our planning, fieldwork, analysis, and reporting. With direct LADOTD experience, proven leadership, and resources that can scale as task orders are issued, our team is ready to deliver accurate, reproducible ratings that help LADOTD make timely decisions, address low-rated structures, and avoid unnecessary postings where a more refined evaluation supports continued service. Should you have any questions regarding our proposal, please contact Brett Canimore.

Sincerely,

AECOM Technical Services, Inc.

Brett Canimore, PE
Project Manager

T: 610.234.0390 | E: brett.canimore@aecom.com

Jonathan McDowell, PE

Associate Vice President / Senior Project Manager
T: 504.450-9904 | E: jonathan.mcdowell@aecom.com



Expedited Results for LADOTD

Look for this icon throughout our proposal to hear how our tools, processes, and experience will improve efficiency and expedite LADOTD's load rating assignments on this IDIQ.

The background of the slide is a collage of various bridge images, including concrete overpasses, steel truss bridges, and bridge piers, all arranged within a grid of green triangular frames. The overall color scheme is dominated by green and white.

**IDIQ Contract for Bridge
Load Rating Services
Statewide**
LADOTD

120+
LOAD RATINGS

Sections
1-13

**Relevance to LADOTD Bridge Load Rating
Statewide Services IDIQ:** Bridge Condition
Assessment/Load Rating, Preventative
Maintenance and Repair, Bridge Rehabilitation
Recommendations

AECOM DELIVERING
A BETTER
WORLD.



DOTD FORM: 24-102

(Revised August 1, 2026)

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.

1. Contract Name as shown in the advertisement	IDIQ BRIDGE LOAD RATING SERVICES STATEWIDE
2. Contract Number(s) as shown in the advertisement	4400036211, 4400036212, 4400036213, AND 4400036214
3. State Project Number(s), if shown in the advertisement	N/A
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.002331
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	Brett Canimore, PE Bridge Inspection Practice Leader - North America 610-234-0390 brett.canimore@aecom.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Jonathan McDowell, PE Associate Vice President / Senior Project Manager 504-450-9904 Jonathan.McDowell@aecom.com

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



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

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

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

Signature
(shall be the same person listed in Section 9)

Jonathan D. McDull

Date: August 25, 2026

Firm(s):
N/A

Firm(s)'%:
N/A



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.

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.

Discipline(s)	% of Overall Contract	AECOM Technical Services, Inc.	Stantec Consulting Services Inc.	Each Discipline must total to 100%
Bridge	100%	90%	10%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each subconsultant.				
Percent of Contract	100%	90%	10%	100%



13. Team 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 (must specify)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: <https://bit.ly/DOTDJobClassifications>

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	1	3
	Supervisor - Eng	3	12
	Supervisor - Other	2	10
	Engineer	8	8
	Pre-Professional	6	12
	Engineer - Other	6	9
	Inspector - Bridge	2	4
Stantec Consulting Services Inc.	Principal	1	2
	Engineer	4	9
	Engineer Intern	3	10
	Technician	1	3
	Inspector - Bridge	3	10

(Add rows as needed)

*For evaluation purposes only, and as referenced in the Scope of Services on page 2 of IDIQ advertisements only, the consultant shall assume the number of concurrently active task orders specified in the advertisement and shall identify the number of committed personnel accordingly.



Movable Bridge
Inspection, Load
Rating, and
Rehabilitation
Design
LADOTD

5
COMPLEX
BRIDGES

Sections

14-16

**Relevance to LADOTD Bridge Load Rating
Statewide Services IDIQ:** Bridge Condition
Assessment/Load Rating, Preventative
Maintenance and Repair, Bridge Rehabilitation
Recommendations, Bridge Inspection

14. Organizational Chart

Click a name to go to resume



Contract Manager
William Metcalf



Expedited Results for LADOTD
Look for this icon throughout our proposal to hear how our tools, processes, and experience will improve efficiency and expedite LADOTD's load rating assignments on this statewide IDIQ.

PROJECT PRINCIPAL

Jonathan McDowell, PE (MPR 1 & 2)

CONTRACT MANAGER/PROJECT MANAGER

Brett Canimore, PE¹, CBI

QA/QC

Henry Fix, PE, CBI (MPR 4)
Ken Butler, PE (MPR 3)

TECHNICAL LEAD

Jason Zimpfer, PE, CBI (MPR 4 & 5)

TASK 1 - PLAN DOCUMENT RETRIEVAL AND REVIEW

Task Lead

Sarah Elsawah, PE (MPR 5)

Myles Martin, PE
Josh Guitreau, EI

TASK 2 - SITE VISITS

Task Lead

Daniel Boyd, PE, CBI

Landon Whitton, PE, CBI (MPR 5)
Myles Martin, PE
Josh Guitreau, EI
David Raffensperger, CBI

Traffic Safety Plans

Jonathan McDowell, PE (MPR 1 & 2)*
Gregory Trahan, PE, RSP1*

TASK 3 - ANALYSIS & LOAD RATING

Task Lead Jason Zimpfer, PE, CBI (MPR 4 & 5)

Load Rating Team 1 Lead

Sarah Elsawah, PE (MPR 5)

Jason Mathers, PE (MPR 5)
Seth McVey, PE¹, CBI
Craig Parent, PE¹, SE
James Martinez, PE¹
Kendra VanGorp, EI
Josh Guitreau, EI

Load Rating Team 2 Lead

Kevin Hagen, PE¹

Binu Shrestha, PE¹
Maegan Vause, PE¹
Myles Martin, PE
James Rhoad-Drogalis, PE¹
Jared Fattoross, PE, CBI
Gabriel Umholtz, PE, CBI

TASK 4 - TRAINING

Task Lead

Jason Zimpfer, PE, CBI (MPR 4 & 5)

Henry Fix, PE, CBI (MPR 4)
Yi Edward Zhou, PE¹, PhD
Jason Mathers, PE, CBI (MPR 5)

TASK 5 - OVERWEIGHT PERMIT REVIEW

Task Lead

Jason Mathers, PE, CBI (MPR 5)

Gabriel Umholtz, PE, CBI
Tanya Tsekhanovsky, PE¹
Jason Zimpfer, PE, CBI (MPR 4 & 5)

TASK 6 - REVIEW, UPDATE, AND CORRECT AASHTOWare BrR FILE

AND TASK 7 - BRIDGE RATING REVIEW

Task Lead

Sarah Elsawah, PE (MPR 5)

Jared Fattoross, PE, CBI
Binu Shrestha, PE¹
Jason Mathers, PE, CBI (MPR 5)

TASK 8 - MISC. RATING WORK

Task Lead

Tanya Tsekhanovsky, PE¹

Jason Zimpfer, PE, CBI (MPR 4 & 5)
Jared Fattoross, PE, CBI



ADDITIONAL CAPACITY & EXPERTISE

Stantec Load Rating Team
Brian Johnson, PE (MPR 5)

Taylor Perkins, PE, PhD, SE (MPR 4)
John Krebs, PE
Kunal Malpani, PE
Heather Deare, PE
Bagyalakshmi "Bagya" Shanmugam, PhD, EI

Complex/Movable Structures
Jason Zimpfer, PE, CBI (MPR 4 & 5)

Jonathan Eberle, PE (MPR 4)
Eric Nelson, PE¹
Yi Edward Zhou, PE¹, PhD
Steve Haynes, PE
Henry Fix, PE, CBI (MPR 4)
Jason Mathers, PE, CBI (MPR 5)
Sarah Elsawah, PE (MPR 5)
Gabriel Umholtz, PE, CBI



Our team is structured to support two simultaneous task order assignments, with added capacity to handle fast-track emergency and complex load rating needs.

Legend:

● Stantec Personnel

(CBI) NBIS Certified Bridge Inspector

*Traffic Control Certified

¹ PE or EI Not Registered in LA

WHAT LADOTD GAINS WITH THE AECOM TEAM

Proven leadership managing LADOTD's Bridge Maintenance Infrastructure

PROJECT MANAGER
BRETT CANIMORE



SR. PROJECT MANAGER WHO HAS SUCCESSFULLY DELIVERED 50+ STATE & LOCAL LOAD RATING/ INSPECTION CONTRACTS, INCLUDING THE LADOTD

SPANNING **15,000** BRIDGES

I want to express my appreciation for AECOM's service on our Complex Bridge Inspection Program. The reports and repair plans were clear and concise and submitted in a timely manner."

- Hayle Brown, PE, DOTD Bridge Maintenance (about Brett as AECOM PM)

Trusted Load Rating Solutions for all of LADOTD's Bridge Inventory

TECHNICAL LEAD
JASON ZIMPFER



AECOM'S NATIONAL PRACTICE LOAD RATING LEAD ENGINEER & AASHTOWARE BrR EXPERT, SUPPORTING LADOTD'S RATING NEEDS

2,000+ BRIDGE RATINGS

AECOM is the only one of four consultant firms doing load ratings for MDT that takes the time to find out why a bridge isn't rating before submitting the rating to MDT for review. This is much appreciated and saves MDT a lot of time..."

- Amanda Jackson, Project Manager, MDT Load Rating Bridges Term Contracts

200+

CERTIFIED BRIDGE Inspectors & Load Rating Engineers

Bringing our proven complex load rating experience on the Brent Spence (OH), Frederick Douglass Memorial (DC), and Gordie Howe (CAN) Signature Bridges confirms our ability to support LADOTD on this IDIQ.

EXPERTISE IN LOAD RATING COMPLEX BRIDGE TYPES (including)



TRUSS



SEGMENTAL



MOVABLE



CABLE-STAY



SUSPENSION



DEVELOPMENT AND DEPLOYMENT OF AUTOMATED OVERWEIGHT VEHICLE EVALUATION TOOL

On the Gordie Howe International Bridge, Tanya Tsekhanovsky and the AECOM team developed an automated overweight vehicle evaluation tool. The tool checks stay cables, edge girders, floor beams, and other primary components against AASHTO MBE, AASHTO LRFD, and CSA S6 requirements enabling faster defensible permit decisions.



15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

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 and discipline meeting MPR/ certification & number	State of license	License/certification expiration date
1.	Jonathan McDowell, PE	AECOM	PE Civil Engineering 0030508	LA	03/31/2027
2.	Jonathan McDowell, PE	AECOM	PE Civil Engineering 0030508	LA	03/31/2027
3.	Ken Butler, PE	AECOM	PE Civil Engineering 0031476	LA	03/31/2027
4.	Jason Zimpfer, PE, CBI	AECOM	PE Civil Engineering 0045922	LA	03/31/2028
4.	Jonathan Eberle, PE	AECOM	PE Civil Engineering 0051485	LA	09/30/2026
4.	Henry Fix, PE, CBI	AECOM	PE Civil Engineering 0038224	LA	03/31/2028
4.	Taylor Perkins, PhD, SE, PE	Stantec	PE Structural Engineering 0047449	LA	09/30/2027
5.	Jason Mathers, PE, CBI	AECOM	PE Civil Engineering 0046129	LA	03/31/2028
5.	Sarah Elsayah, PE	AECOM	PE Civil Engineering 0046814	LA	09/30/2028
5.	Landon Whitton, PE, CBI	AECOM	PE Civil Engineering 0041523	LA	09/30/2027
5.	Jason Zimpfer, PE, CBI	AECOM	PE Civil Engineering 0045922	LA	03/31/2028
5.	Brian Johnson, PE	Stantec	PE Civil Engineering 0031273	LA	09/30/2026

 [Click a name to go to resume](#)



16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés are limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

		Firm AECOM	
Name: Brett Canimore, PE, CBI		Years of relevant experience with this employer	27
Title: Contract Manager/Project Manager		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		MS / 2009 / Engineering Management; BS / 1994 / Civil Engineering Technology	
Active Registration Number / State / Expiration Date		053513E/PA/09.30.26 Additional active license: AR, MI, MD, GA, DE, MT, NJ, NY, FL, & PR	
Year Registered		PE PA: 1999	Discipline Civil Engineering
Contract Role(s) / Brief Description of Responsibilities		Contract Manager/Project Manager. With more than 35 years of bridge inspection, rehabilitation, design, analysis, and load rating experience, Brett will serve as LADOTD's primary point of contact and provide consistent oversight across the IDIQ. He will work with LADOTD to define each task order, assign the appropriate technical and field resources, monitor schedule and budget, coordinate quality reviews, and address issues before they affect delivery as he has previously done on LADOTD's IDIQs. A Certified Bridge Safety Inspector since 1995, Brett has contributed to more than 15,000 routine, in-depth NBIS, and underwater bridge inspections , including field investigations, load ratings , stream bed evaluations, technical reporting, and repair recommendations. His Bridge Safety Inspector training and refresher courses from 1995 through 2026 reinforce the practical judgment he will bring to keeping multiple task orders organized, technically consistent, and responsive to LADOTD's priorities.	
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).		
05/25–Ongoing	LADOTD Contract No 44-29684 State Project No H0097305, IDIQ Contract for In-Depth Bridge Inspection of Complex Structures, Statewide, LA. Project Manager for this five-year retainer contract to perform in- depth bridge inspections of assigned complex structures . Assigned bridges in 2025 include the routine NBIS, NSTM and in-depth mechanical and electrical inspection of movable bridges LA 82 over Superior Canal in Cameron Parish, LA 22 over Tchefuncte River in Tammany Parish and LA 315 over Bayou Dularge in Terrebonne Parish. The project also included an emergency inspection, and repairs of the trunnion support towers at the LA 315 twin bascule bridge over the Bayou Dularge.		
02/23-09/26	LADOTD Contract No 44-21593, IDIQ for Bridge Load Rating Services, Statewide, LA. Project Manager for this load rating analysis of 120 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.		
12/12-06/18	LADOTD Contract No 44-02687 State Project No H0097305, In-Depth Inspection of Complex Structures, Statewide, LA. Project Manager for the four-year retainer contract to perform in-depth bridge inspections of assigned complex structures . Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), and the Greater New Orleans Bridge (2016). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River.		

Brett Canimore, PE Contract Manager/Project Manager - Cont.	
05/14-Ongoing	Montana Department of Transportation (MDT), Load Rating Bridges Term Contracts (2014-2017, 2018-2021, 2021-2024, 2025-2029), Statewide, MT. Project Manager responsible for oversight of the AECOM team providing load rating services. The goal of this project is to provide load rating services on an as-needed basis for all of the state's legal loads. The work includes the analysis and rating of more than 1,000 bridges including steel truss systems with gusset plate analysis , glue laminated timber, solid-sawn timber, reinforced concrete, prestressed concrete, multi-girder steel, corrugated metal pipe, and steel girder-floorbeam-stringer systems. AECOM used AASHTOWare BrR software to analyze all structures that the program is capable of modeling, and Midas Civil for 3D FEM analysis for complex bridge configurations, including rigid frame, suspension bridge, and multi-cell concrete box girders.
11/25-Ongoing	New Jersey Turnpike Authority (NJTA) General Consulting Engineer - Bridge Inspection Program Technical Manager, Statewide, NJ. Project Manager responsible for overseeing load rating and inspection contracts for 6 consultant teams serving NJTA on their 1200+ bridge inventory. Responsibilities include reviewing the calculations and AASHTOWare BrR models produced by other consultant teams for load ratings , establishing and maintaining load rating policy, analyzing bridges for overweight permit requests , special analysis for bridge collision damage after emergency inspections, and general bridge/asset management.
01/21-12/26	PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large / Complex Bridges. Project Manager for the three-cycle bridge inspection and load rating contract of 160 assigned structures in D4-0. The assigned bridges are non-fracture-critical, large and complex, requiring specialized access, traffic control, railroad coordination, and nondestructive testing. Project included in-depth, routine NBIS, and interim inspections, emergency on-call services, load rating analyses , element inventory, and element-level inspections.
04/26 – Ongoing	Delaware River Port Authority (DRPA), 2026 Biennial Inspection of the Benjamin Franklin Bridge. Project Manager for the biennial inspection that included a close visual “hands-on” inspection of all NSTM and fatigue sensitive details, including inspection of the main cables, suspender ropes, towers and the cable splay in the anchorages. Additional tasks encompassed ultrasonic testing of the truss link pins. Gaining access without impacting traffic during peak travel times was the contract's major challenge. AECOM developed an inspection schedule and method of access plan that considered safety, OSHA regulations, traffic control (no lane closures during peak hours), and the schedule and hazards of the electrified heavy rail transit system. The access plan matched the best inspection methods to the characteristics of the bridge. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
1/26 –12/26	PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA. Project Manager for the 2-cycle contract focusing on structures within the high ADT I-95, US Route 1, and I-76 corridors. The bridges typically require specialized access, traffic control, railroad coordination, non-destructive testing, and mechanical and electrical inspection of movable bridges . Due to the high traffic volume roadways, construction projects, and number of railroad crossings, there is an elevated level of coordination of planned inspection activities required. This demanding project included fracture critical inspections, in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, element inventory and element level inspections.
04/24-04/26	DRPA, Betsy Ross Bridge over Delaware River 2024 Biennial Inspection, PA and NJ. Project Manager for the biennial inspection that included a close visual “hands-on” inspection of all fracture-critical and fatigue-sensitive details, including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures. This project included an underwater inspection of the channel piers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/20-12/26	Puerto Rico Highway and Transportation Authority (PRHTA), NBIS Safety Inspection of In-Service Bridges in Puerto Rico. Project Manager for the professional services agreement to provide NBIS bridge safety inspection and load rating services of assigned bridges throughout Puerto Rico. Inspection work was completed in accordance with PRHTA's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Currently, AECOM has completed more than 1,000 inspections, including routine, fracture-critical, and special inspections.

MPRs 1 & 2

	Firm	AECOM			
	Name: Jonathan McDowell, PE			Years of relevant experience with this employer	23
	Title: Project Principal			Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		BS / 1996 / Civil Engineering			
Active Registration Number / State / Expiration Date		0030508 / LA / 03.31.2027 ATSSA Traffic Control Supervisor–LA State Specific (2027); LADOTD Traffic Process and Report Parts 1, 2 and 3 (2018); NEPA and Transportation Decision Making (2011); AASHTO Highway Safety Manual (2013)			
Year Registered		PE LA: 2003	Discipline	Civil Engineer	
Contract Role(s) / Brief Description of Responsibilities		MPRs 1 & 2, Project Principal. Jonathan has served as a principal, project manager, and project engineer for a wide variety of transportation and public infrastructure projects in Louisiana and throughout the southeastern U.S. His roles have included line and grade for feasibility studies, planning, NEPA Environmental studies, and preliminary and final design. He is experienced with contract administration, construction engineering, and inspection for all modes of transportation 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).				
09/07-07/15	LADOTD (H0017795 & 700-08-0114) Stage 0 Feasibility Study & Report & EA, LA 511 Red River Bridge at Jimmie Davis Highway, Baton Rouge, LA. Project Manager and Lead Road Design Engineer. Led the Stage 0 Feasibility Study; Lead Road Design Engineer and co-author of the engineering report for the EA. Designed geometric layout alternatives for capacity improvements and pedestrian and bicycle accommodations for the bridge crossing of the Red River and along Jimmie Davis Highway (LA 511) from the Red River to US 71. Tasks included the development of the purpose and need statement, the project design criteria, and the geometric alternatives of the bridge, interchange ramps on each side of the bridge, and roadway approaches. Developed a median U-turn alternative and off corridor access improvements to improve corridor connectivity for LA 511 between the Arthur Teague Parkway and US 71.				
07/15-Ongoing	LADOTD (H0042735) I-49 Connector, Lafayette Regional Airport to I-10/I-49/US 167 Interchange, Lafayette Parish, LA. Project Manager Leadership Team Member, and Railroad Coordination & Design Task Manager. Led 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, he will also perform tasks associated with highway geometrics, highway traffic, and environmental and public involvement tasks.				
05/10-12/13	LADOTD (H.005171.1) I-49 South, Stage 0 (24 Stage 0 & 16 Stage 0) Interim Improvements for Safety & Efficiency, Raceland to Westbank Expressway, Lafourche & Richoc to Berwick, St. Charles, Jefferson & St. Mary Parishes, LA. Lead Road Design Engineer to develop a program of Stage 0 projects providing interim capacity and safety improvements along two segments of the US 90 corridor that would upgrade the existing US 90 highway to interstate standards. Responsible for planning and geometric design of the interstate highway, interchange ramps, and intersections with local collector and arterial roadways; preparation of cost estimates for alternative concepts; completion of Stage 0 Checklists; and preparation of an implementation plan. Developed a median U-turn concept that was implemented by the District.				

Jonathan McDowell, PE Project Principal - Cont.	
01/11-01/13	LADOTD (H0099981) Stage 0 Feasibility Study & Report, LA 935, Ascension Parish, LA. Engineer. AECOM, as a subconsultant, performed a Stage 0 Feasibility Study in accordance with the results of the Roadway Safety Assessment (RSA). The study area is approximately a 4-mile segment of LA 935 from LA 431 to LA 22 in Ascension Parish. From the RSA three proposed alternatives were to be considered for a Stage 0.
03/15-01/17	LADOTD, Stage 0 Feasibility Study & Report, Westside Expressway, Iberville Parish Government, West Baton Rouge, Iberville, Ascension & St James Parishes, LA. Project Manager and Lead Roadway Designer for the planning and development of a high level corridor study to locate a new highway that connects I-10 west of Baton Rouge to LA 3127 with a spur to connect to LA 30 using the Iberville Parish bridge crossing location identified in the Baton Rouge Loop EIS and a secondary bridge connection to I-10 utilizing the Sunshine Bridge (LA 70). Coordinated TransCAD model data with CRPC. Utilized traffic data published in available versions of the Baton Rouge Loop EIS. Completed LADOTD Environmental Inventory and Stage 0 Scope and Budget Checklists for each identified independent segment of utility. Presented proposed alignments to LADOTD, Iberville and Ascension Parishes, and various stakeholders identified by Iberville Parish.
08/12-07/14	LADOTD (H0099971) Stage 0 Feasibility Study & Report, Johnston Street Study (US 167), Lafayette Parish, LA. Project Manager and Lead Road Design Engineer who led the analysis of crash data to identify trends and suggest countermeasures for development of alternatives to improve safety within the corridor of an urban arterial with heavy bicycle traffic. Evaluated the proposed alternatives using Crash Modifications Factors provided in Part D of the Highway Safety Manual. Determined benefit costs for each alternative for use in the evaluation of the alternatives.
06/13-10/14	LADOTD (H0105701) Stage 0 Feasibility Study & Report, Williams Boulevard, Jefferson Parish, LA. Project Manager and Lead Road Design Engineer who led analysis of crash data to identify trends and suggest countermeasures to develop alternatives to improve safety within the corridor by converting a five lane urban arterial to a four-lane road with bike lanes. Evaluated the proposed alternatives using the Predictive Method outlined in Part C of the Highway Safety Manual. Determined benefit costs for each alternative to evaluate the alternatives.
09/20-present	City of Baton Rouge/Parish of East Baton Rouge, Feasibility Study & Report/TEPR, College Drive, Baton Rouge, LA. Project Manager of the Design Study, Traffic Study, and Preliminary Plans for the completion of capacity and safety improvements that also include Complete Streets and Green Infrastructure enhancements on College Drive and adjacent facilities between Perkins Road and Bawell Street including the I-10 interchange. Documented preliminary alternatives using LADOTD Stage 0 Project and Scope and Environmental Checklists to apply for state and federal funding grants. Developed preliminary concepts. Provided QC review of the Safety Analysis.
09/15-04/17	City of New Orleans Department of Public Works, Multimodal Transportation & Traffic & Safety Analysis, & Transportation Plan (NODPW), New Orleans, LA. Design Engineer. Multimodal transportation analysis and plan for the New Orleans Downtown and historic French Quarter neighborhood. Dozens of bicycle, pedestrian and vehicular alternatives were developed and evaluated and selected improvements were programmed, based on the integrated modal-access analysis, including pedestrian LOS modeling around transit stops. Extensive curb-use revisions, car-free zones, and other innovations were developed for the Quarter and CBD.

MPR 3

	Firm AECOM		Name: Ken Butler, PE		Years of relevant experience with this employer	30
	Title: QA/QC Review				Years of relevant experience with other employer(s)	12
	Degree(s) / Years / Specialization				BS / 1984 / Civil and Environmental	
Active Registration Number / State / Expiration Date		0031476 / LA / 3.31.27 Additional active license: VA, FL, MD, PA, SC, NC, CA, DC, DE, NY, NJ				
Year Registered		PE LA: 1991	Discipline	Civil Engineer		
Contract Role(s) / Brief Description of Responsibilities		MPR 3, QA/QC. Ken brings 40+ years of experience leading the design, evaluation, and construction of major and complex bridges, including 35 structures representing more than \$12 billion in construction value. He has served in responsible-charge and senior technical leadership roles for several LADOTD projects (including the I-49 Mainline Viaduct and the Florida Avenue Bridges), applying agency-specific bridge criteria, construction standards, and AASHTO provisions to guide design decisions, verify structural adequacy, and maintain quality across multidisciplinary teams. His experience includes major alternative-delivery programs, among them the \$4B Brent Spence Bridge, the \$463 million Harry W. Nice/Thomas "Mac" Middleton Bridge and the \$449 million Frederick Douglass Memorial Bridge delivered through design-build and public-private partnerships. Ken has provided design, project management, construction support, and construction engineering inspection services for 14 state transportation agencies, giving him a strong command of translating governing requirements into practical, defensible solutions throughout design 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).					
08/23-Ongoing	BSMT (ODOT & KYTC), Brent Spence Bridge Project, OH/KY. Design Manager in responsible charge of design management and final work product for this \$4B 6-mile-long highway & bridge project. Project includes a double-decker cable-stayed bridge over the Ohio River; 5-miles of highway and 17 bridges and 23 walls (30,475-ft) in Kentucky; and 1-mile of complex interchanges and 37 bridges and 26 walls (16,250-ft) in Ohio. As Design Manager, Ken is responsible for managing 350 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.					
06/14-12/21	LADOTD (H.004273) I-49 Connector, Lafayette, LA. Project Principal and Structures Lead in responsible charge for bridge design during the Environmental Assessment, SEIS, and preliminary design of this 3.5-mile-long elevated urban viaduct. Ken's roles required interpreting and implementing LADOTD's governing bridge criteria and roadway construction standards alongside AASHTO evaluation provisions to guide technical decisions , confirm structural adequacy, and maintain consistency across structure types. Fixed bridge design experience includes elevated precast segmental and prestressed concrete U-girder viaducts, four flyover connector ramps, three multi-level interchanges, two elevated SPULs with signature bridge elements including arches and cable-stayed features, eleven overpass structures, three railroad bridges, and 27,000 feet of retaining wall.					

Ken Butler, PE QA/QC Review - Cont.	
01/11 – 08/14	LADOTD (State Project No 700-92-0016) Florida Avenue Bridge, New Orleans, LA. Project Principal and bridge lead in responsible charge for directing preliminary and final design of the \$100 million, 1,500-foot-long main crossing carrying an urban highway over the Inner Harbor Navigation Canal. Fixed bridge design of a 470-foot main span over the canal with 156-foot vertical and 300-foot horizontal navigational clearances, steel plate girder and cast-in-place variable-depth concrete box girder alternates,. Led the technical evaluation of steel plate-girder and cast-in-place, variable-depth concrete box-girder alternatives, applying LADOTD criteria and AASHTO provisions to assess structural performance, constructability, and long-term serviceability. The broader project included approximately two miles of elevated structure.
03/17-Present	VDOT, Rte 3 Robert Norris Bridge over Rappahannock River, Whitestone, VA. Chief Bridge Engineer responsible for conceptual design and cost estimates (Environmental Assessment, Preliminary Engineering) for replacing this 10,200-foot-long bridge. Fixed bridge design experience includes conceptual design for a long-span river crossing with a 400-foot channel span providing a 110-foot vertical and 300-foot horizontal navigational envelope. Deep water up to 60 feet and 200-foot deep foundations resulting from poor subsurface conditions contributed to the estimated \$400M project cost.
10/19–12/22	MDTA Harry W Nice/Thomas “Mac” Middleton Bridge Replacement Project, MD. Design Manager in responsible charge 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 is responsible for managing 60+ designers for designs, principal 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 one year and he continues to provide construction support to the Design-Build.
10/18-12/21	NPS/FHWA-EFLHD Arlington Memorial Bridge, Washington, DC. Designer of Record in responsible charge for this historic arch bridge rehabilitation project over the Potomac River. Primary components of the project included complete re-decking of the 2,162-foot-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. 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.
08/17-01/22	DDOT, Frederick Douglass Memorial Bridge Project, Washington DC. Design Manager in responsible charge of design management and final work product for this \$449M signature bridge project over the Anacostia River. Fixed bridge design experience includes a 1,445-foot-long signature bridge comprised of three springing cable-stayed arch spans supported by cable stays. 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. 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.

MPRs 4 & 5



Firm | AECOM

Name: **Jason Zimpfer, PE, CBI**

Title: Technical Lead, Task 3 and 4 Lead

Years of relevant experience with this employer | **17**

Years of relevant experience with other employer(s) | **0**

Degree(s) / Years / Specialization | MS / 2007 / Structural Engineering; BS / 2006 / Civil Engineering

Active Registration Number / State / Expiration Date | 45922 / LA / 03.31.2028
Additional active license: PE UT, PA, DE, TX, PR, NJ, CO, FL, MT, RI

Year Registered | PE LA: 2021 | Discipline | Civil Engineer

Contract Role(s) / Brief Description of Responsibilities | **MPRs 4 & 5, Technical Lead, Task 3 and 4 Lead.** Jason has 17 years of extensive and varied load rating analysis, design, research, and bridge inspection experience. He has performed load rating analyses of more than 2,000 bridges and culverts in more than 22 states and is a certified bridge safety inspector. He has more than 12 years of extensive experience with the **AASHTOWare BrR** software for a wide range of structure types. His analysis experience also includes coordinating load ratings of deficient structures, **movable bridges, truss gusset plate analysis**, complex structure analysis, and finite element modeling. He has been involved with **long-span truss inspection, analysis, and rehabilitation**, and has performed structural research at a graduate level. Training: ASCE Load Rating of Highway Bridges; Bridge Safety Inspector Training Course (NHI 130055) 2009; Bridge Safety Inspection Training Refresher Courses, 2011 through 2026, PA.

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).

02/23-09/26 | **LADOTD Contract No 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA. Task Manager** responsible for more than 120 bridge superstructure and substructure **load ratings using AASHTOWare BrR** software and other approved LADOTD software applications. Task manager responsible for all AECOM deliverables, quality control, and all technical aspects of this project, which included the analysis of reinforced and precast concrete multi-girder and slab bridges, steel plate girders, and timber and metal substructure element analysis. **Developed proprietary tool for concrete bent cap and timber pile analysis using AASHTOWare BrR influence line data.**

12/25-Ongoing | **LADOTD, Movable Bridge Inspection, Load Rating, and Rehab Design - Duperier, Bayou Bonfouca, & Grand Lake Bridges (H.011988, H.012737, & H.012044). Task Leader** overseeing the **load rating** analysis calculations for these **three movable bridges** (bascule span, steel girder swing span, and pontoon span) with approach span multi-girder systems in the **AASHTOWare BrR** software.

10/25-07/26 | **LADOTD, Movable Bridge Inspection, Load Rating, and Rehab Design - Dularge Bridge (H.011973), Terrebonne Parish, LA. Task leader** overseeing bascule span movable bridge **load rating analysis** with rehabilitation recommendations using the **AASHTOWare BrR** software.

10/25-02/26 | **LADOTD, Movable Bridge Inspection, Load Rating, and Rehab Design - Ted Hickey Bridge (H.011969), Orleans Parish, LA. Task Leader** overseeing engineering services for **movable bridge** inspection, evaluation, and rehabilitation recommendations. Assisting with **AASHTOWare BrR load rating**, analysis of bridge components, and development of repair strategies to extend bridge service life.



Jason Zimpfer, PE Technical Lead - Cont.		 Click to return to organizational chart
01/25-03/25	LADOTD, Bridge Preservation IDIQ 2022-2027 - LA 641 Bridge Load Rating and Repair, St. James Parish, LA. Technical Advisor for load ratings for the existing bridge condition and post-repair load ratings, as well as as-designed load rating reports for damaged pre-stressed concrete girders.	
01/18-Ongoing	Montana Department of Transportation (MDT), Load Rating Bridges Term Contracts 2018-2021 & 2021-2024, Statewide, MT. Task Leader responsible for quality, schedule, budget, technical oversight and communication for load rating services. The goal of this project is to provide load rating services on an as-needed basis for all of the state's legal loads. The work includes the analysis and rating of more than 1,000 bridges including steel truss systems with gusset plate analysis , glue laminated timber, solid-sawn timber, reinforced concrete, prestressed concrete, multi-girder steel, corrugated metal pipe, and steel girder-floorbeam-stringer systems. AECOM used AASHTOWare BrR software to analyze all structures that the program is capable of modeling, and Midas Civil for 3D FEM analysis for complex bridge configurations, including rigid frame, suspension bridge, and multi-cell concrete box girders .	
08/14 – 09/17	LADOTD (Contract No 44-2687 State Project No H0097305) US-190 Krotz Springs Atchafalaya Bridge Bearing Repair, LA. Structural Engineer responsible for preliminary and final design of superstructure jacking and repair of the nested rocker bearings supporting the free end of a three-span, 1500 ft long cantilever through truss.	
11/25-Ongoing	New Jersey Turnpike Authority (NJTA) General Consulting Engineer - Bridge Inspection Program Technical Manager, Statewide, N.J. Load Rating Engineer responsible for the management of load rating and inspection contracts for 6 consultant teams serving NJTA on their 1200+ bridge inventory. Responsibilities include reviewing the calculations and AASHTOWare BrR models produced by other consultant teams for load ratings , establishing and maintaining load rating policy, analyzing bridges for overweight permit requests , special analysis for bridge collision damage after emergency inspections, and general bridge/asset management.	
04/20 – 12/22	NDDOT, Local Public Agency Bridge Inspection and Load Rating, Northwest Region. Technical Advisor for the load rating of 619 local agency bridges in northwest North Dakota. Bridge types include trusses, steel girder, prestressed concrete girder, R/C slabs, T-Beams, and timber. AASHTOWare BrR was used for the majority of the ratings. Substructures and truss bridge pins were rated, as needed, using in-house developed manual calculation and spreadsheet tools.	
07/17-08/22	Mississippi Office of State Aid Road Construction, Bridge Load Rating, MS. Structural engineer and technical advisor responsible for coordination, calculation checking, and quality control of load rating efforts for this assignment of more than 300 bridges over multiple contracts, using the AASHTOWare BrR software, including steel, reinforced concrete, prestressed concrete, and timber superstructures, as well as timber pile substructures and timber decks. Field-noted deterioration is included in calculations and load rating models.	
06/19-08/19	NASA/Kennedy Space Center: Indian River Bridge Derating Assessment Study, Kennedy Space Center, FL. Task leader for the load rating analysis of twin double-leaf bascule span bridges carrying the NASA Causeway at Kennedy Space Center over the Indian River. Main bascule spans and steel girder approach spans were analyzed using the AASHTOWare BrR software for NASA special transport vehicles and Florida legal vehicles. The analysis considered counterweight loads behind the trunnion, as well as modeling the effect of the live load anchor and center span lock.	
05/12-12/18	Pennsylvania Department of Transportation - District 5-0, Load Rating Analysis, Carbon, Monroe, and Schuylkill Counties, PA. Lead structural engineer responsible for coordinating all load ratings performed on the contract (approximately 150). Load ratings are performed on deteriorated structures based on the NBIS inspections provided by AECOM. Responsible for regular client communication, reporting results to PennDOT, and posting and repair recommendations based on analysis results.	
05/14-02/18	Montana Department of Transportation (MDT), Statewide Load Rating Term Contract, MT. Lead structural engineer responsible for coordination, calculation checking, and quality control of load rating efforts for this four-year assignment with approximately 150 bridges , using the AASHTOWare BrR software, including steel, reinforced concrete, pre-stressed concrete, and timber superstructures. Task includes rating of steel trusses with gusset plate analysis, curved girder, and arch analyses.	



MPR 4



Firm | AECOM

Click to return to organizational chart

Name: **Henry Fix, PE, CBI**

Title: QA/QC Review

Years of relevant experience with this employer **31**

Years of relevant experience with other employer(s) **8**

Degree(s) / Years / Specialization MCE / 1992 / Structural Engineering; BCE / 1987 / Civil Engineering

Active Registration Number / State / Expiration Date 0038224 / LA / 03.31.28
Additional active license: AR, AZ, DE, FL, MD, NJ, PA, PR, MT, RI

Year Registered PE PA: 1992 Discipline Civil Engineer

Contract Role(s) / Brief Description of Responsibilities

MPR 4, QA/QC Lead, and Task 3 and 4 Support. Henry has substantial **analysis and design experience** on a wide range of bridge, bridge inspection, highway, and railway projects. He has an extensive background in structural modeling and design, utilizing **finite element software**, including STAAD, GTSTRUDL, and ANSYS. Henry has **developed and led load rating training for state DOT staff** on load rating policies, techniques, and procedures, helping PENNDOT District staff deliver accurate, complete, and consistent bridge ratings. He is also proficient with design and **load rating analysis programs** including **AASHTOWare BrR**, BAR7, BOX, ABUT and LRFD design. An NBIS certified bridge inspector since 1989, Henry has participated in a broad range of bridge inspection activities as an Inspection Team Leader. His training includes the Bridge Safety Inspector Training, NJDOT, 1988; PennDOT BSITC Certification, 1989; and Refresher course 2010-2025.

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).

06/25-Ongoing

LADOTD (CONTRACT NO. 4400029684, Program No. H.009730.5) IDIQ Contract for In-Depth Inspection, Statewide, LA. Inspection Team Leader, and Project Quality Representative for the contract to perform in-depth bridge inspections of assigned **complex and movable structures**. Inspections included LA 315 Dularge Bridge, LA82 over Superior Canal, LA6 over Red River at Grand Ecore; LA2 over Ouachita Sterlington; US71 over UP RR; I-49 over LA1 (NB and SB structures).

12/12-06/18

LADOTD (Contract No 44-2687 State Project No H0097305) In-Depth Inspection of Complex Structures, Statewide, LA. Structural Engineer of Record, inspection team leader, and project quality representative for the four-year retainer contract to perform in-depth bridge inspections of assigned **complex structures**. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017) and LA 315 Dularge Bridge (2017). Also included the **design** to reset the rocker nest **truss** bearings of the US 190 WB Structure over the Atchafalaya River.

01/14-01/24

Montana Department of Transportation (MDT) – Statewide Load Rating, Various Locations, MT. Senior structural engineer and project quality representative responsible for structural analysis and project quality of **load rating** for back-to-back four-year assignments with approximately 400 bridges, using the **AASHTOWare BrR** software, including steel, reinforced concrete, prestressed concrete, and timber superstructures. Task includes rating of ~75 steel trusses, gusset plate analysis, curved girdera and arch structure analysis.

06/2012-06/2018

Pennsylvania Department of Transportation - District 5-0, State-owned National Bridge Inspection Standards Bridge Inspections, Berks, Lehigh, and Northampton Counties, PA. Inspection team leader responsible for coordinating and performing inspections of structures, writing inspection reports, computing bridge **load ratings**, suggesting maintenance and repair work, and presenting reports to the owner. **Truss and gusset plate ratings** were done for the Cementon Truss Bridge using the PennDOT Truss Gusset Plate Analysis Rating Spreadsheet (TGPARS).

Henry Fix, PE QA/QC Lead - Cont.	
04/10-12/10 04/16-12/16 04/20-12/21 04/24-01/25	Delaware River Port Authority (DRPA), Betsy Ross Biennial Inspection, PA and NJ. Deputy Project Manager, lead structural engineer and project safety coordinator for the inspection and load rating of the Betsy Ross Bridge Facility. The 2010 contract included a complete rating of all the bridges and culverts on the facility, including the main through truss spans , the approach deck truss spans , the approach girder spans, numerous overpass structures, and two culverts. A final report was prepared that included the load rating analysis , a description of the inspection findings, recommendations for repairs, SI&A PONTIS and BMS updates.
04/14-12/14 04/18-12/18 04/22-02/24	Delaware River Port Authority (DRPA), Commodore Barry Bridge 2014, 2018 and 2022, Biennial Inspection, Pennsylvania and New Jersey. Deputy Project Manager and Project Quality Manager for the inspection of the Commodore Barry Bridge Facility. The inspection included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span , deck truss spans and steel stringer spans. This project also included ultrasonic testing of the pins and electro-slag welds on the bridge.
01/14-07/15	Sonoma Marin Area Rail Transit (SMART), Haystack Bridge, Petaluma, CA. Structural Engineer for the rehabilitation and installation of a relocated Scherzer rolling bascule, through truss rail transit bridge . Work included assessing the condition of the structure, analyzing the load capacity of the deteriorated members and gusset plates , recommending repairs and rehabilitating the structure for installation.
02/11-06/11	Pennsylvania Department of Transportation (PennDOT), State Project No E01047, District 11-0, Allegheny and Beaver County NBIS, Ambridge-Aliquippa Bridge Load Rating, Pittsburgh, PA. Lead Structural Engineer responsible for the load rating analysis of the gusset plates for this 1730-foot, five-span, cantilever, steel, through truss over the Ohio River and the approach pony truss span. The bridge was being rehabilitated and AECOM was asked to analyze the capacity of the gusset plates in response to the increased emphasis on gusset plates as a result of the I-35W bridge collapse.
09/09-03/10	Pennsylvania Turnpike Commission (PTC) Systemwide Inspections, PA. Structural Engineer for the load rating analysis of The Hawk Falls 739-foot truss (NB-610) and the Beaver River 1480-foot truss (WB-211) bridges to analyze the capacity of the gusset plates. This work was done as a part of the systemwide inspection agreement.
01/08-12/08	Pennsylvania Department of Transportation - Bureau of Design, Bridge Load Rating Training Course, PA. Training Subject Matter Expert. Developed portions of load rating training courses for all PENNDOT Districts. The purpose of the training was to teach bridge load rating engineers the current policy, techniques, and procedures for accuracy, completeness, and uniformity in load rating bridges. Henry was later also an Instructor and Project Manager of training courses for the Bridge Inspection Training and Scour Training courses. These trainings provided the latest policies and procedures from PennDOT BQAD in accordance with Pub 238, to re-certify Bridge Inspectors to provide for uniformity in inspecting bridges.
06/2007-06/2010	Delaware River Port Authority, Walt Whitman Bridge Gusset Plate Analysis, Philadelphia, PA. Deputy Project Manager for the analysis of the gusset plates for the approach deck trusses of this signature, complex bridge over the Delaware River. Calculations involved creating a spreadsheet to automate the analysis.
01/2007-12/2010	Delaware Department of Transportation, Rehabilitation of Bridge 1-501, The Newport Viaduct, Newport, DE. Deputy Project Manager and lead structural engineer for the rehabilitation of a twin span, 1984-foot, 19-span viaduct composed of various continuous span and simple span configurations of a composite steel tub girder with varying cross-sections. A routine inspection discovered over 1200 fatigue cracks in the webs at the internal diaphragm connection plates. Finite element modeling of the condition and retrofit schemes were examined to remediate the cracking, and a load rating of the bridge was performed using the BRASS-GIRDER software.
01/2003-12/2003	Tidewater/Skanska, Great Bridge Bridge Replacement Construction Support Engineering Services, Virginia Beach, VA. Structural engineer provided fabrication and erection analysis for the contractor constructing a double leaf rolling bascule bridge . Services include erection assembly analysis for fit-up, camber review, erection hoisting stress and displacement analysis, and fit-up tolerances for the two 250-ton leaf span deck installations to the rolling bascule counterweight mechanism.



MPR 4



Firm | AECOM

[Click to return to organizational chart](#)

Name: **Jonathan Eberle, PE**

Title: Complex/Movable Structures Load Rating and Analysis

Years of relevant experience with this employer | **13**

Years of relevant experience with other employer(s) | **0**

Degree(s) / Years / Specialization | MS / 2013 / Civil Engineering (Structures); BS / 2010 / Civil Engineering

Active Registration Number / State / Expiration Date | 0051485/ LA / 09.30.2026
Additional active license: PA, DE, FL

Year Registered | PE LA: 2026 | Discipline | Civil Engineer

Contract Role(s) / Brief Description of Responsibilities | **MPR 4 and Complex/Movable Structures Load Rating and Analysis.** Jon brings more than 12 years of combined bridge **load-rating and load-capacity evaluation experience**, including refined rating of a complex tied-arch bridge and current leadership of load ratings for **five LADOTD movable bridges**. Leads condition evaluation, structural modeling, load-capacity assessment and load-rating review for movable and complex bridges; develops practical repair or replacement recommendations.

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	LADOTD, Movable Bridge Rehabilitation Contract, Multiple Locations, LA. Project Manager / Load Rating Lead. Leads condition inspection, load rating , repair/replacement recommendations and rehabilitation or replacement design for five movable bridges : three bascule bridges, one swing bridge, one pontoon span and their approach spans. Directs the multidisciplinary team and technical evaluation of these complex structures.
07/25-10/25	LADOTD, Bayou Dularge Bascule Bridge Emergency Repairs, Houma, LA. Movable Bridge Specialist. Evaluated unexpected movement of a dual-leaf bascule bridge and developed progressive emergency repairs for the fracture-critical tension-column connection supporting the leaf. Coordinated post-tensioned anchors and steel connection details with the contractor, restoring the bridge to service within seven weeks of inspection.
09/22-Ongoing	San Juaquin and Sacramento Counties, Millers Ferry Swing Bridge over the Mokelumne River, Walnut Grove, CA. Project Manager overseeing the AECOM team performing a feasibility study to determine whether to replace or rehabilitate the existing historic truss swing span structure . Through coordination with the Federal Highway Administration (FHWA), it was determined that the preferred alternative was to replace the existing structure with a new overhead counterweight rolling lift bridge. Jon has been leading the design of the replacement structure, which is advancing toward 65% design.
03/22-08/23	DelDOT, Bridge 2-021A Movable Bridge Repairs, Milford, DE. Project Manager/Senior Structural Engineer and was in responsible charge for inspection and repair design of an overhead counterweight rolling lift bridge after the machinery platform was struck by an over-height vehicle in December 2021. He managed the accelerated response, deployed the inspection team, and oversaw hands-on inspection of the damaged portal frame, machinery platform, and counterweight girder. Jon led development of repair recommendations into construction documents under an accelerated schedule, and the repairs were let for construction. After the bridge was struck again in December 2022, Jon managed additional repair scope addressing further damage to the machinery platform and mechanical equipment.

Jonathan Eberle, PE Complex/Movable Structures Load Rating and Analysis - Cont.	
09/22-Ongoing	Walnut Grove Movable Bridge, Walnut Grove, CA. Project Manager / Structures Lead leading the inspection, repair-versus-replacement alternatives analysis, and preliminary design for replacement of the existing truss swing bridge . He led the structural scope through preliminary design, including coordination of bridge replacement concepts and development of the recommended rolling leaf bascule movable bridge alternative. The project is currently anticipated to begin final design in 2026.
03/22-08/23	DelDOT Bridge 2-021A Movable Bridge Emergency Repairs, DE. Lead Engineer / Engineer of Record. Led inspection and structural evaluation following an over-height vehicle impact; developed structural and mechanical repairs for the portal frame, machinery platform, counterweight girder and drivetrain and provided construction support.
06/15-06/18	MnDOT, Rehabilitation and Rating of Smith Avenue High Bridge, St. Paul, MN. Arch Span Primary Analysis Lead. Led refined load-rating analyses of a 550-foot main-span, three-span continuous tied-steel arch with splayed, curved multi-girder approaches . Evaluated existing and proposed conditions and modeled staged deck removal, post-tensioned tie detensioning and reconstruction to support rehabilitation decisions.
07/14-08/14	DRBA Delaware Memorial Bridge Rehabilitation, CC, DE. Designer for the analysis of existing overhang brackets which exhibited significant section loss on the suspension bridge . A retrofit was design using threaded rod to ensure that dead and live load would be carried by the rehabilitation efforts.
06/15-06/18	MnDOT, Rehabilitation and Load Rating of the Smith Avenue Bridge (High Bridge), St. Paul, MN. Arch Span Primary Analysis Lead Engineer. This project consisted of the rehabilitation and load rating of a long-span continuous tied steel arch over the Mississippi River. The main river unit is a three-span continuous tied arch with a main span of 550 ft, and the approach spans are multi-girder spans that are splayed and curved in plan. Jon served as the Lead Engineer for the analysis for the arch spans. This work included analyses to determine a sequence for removal of the existing deck, de-tensioning of the post-tensioned ties, and re-construction of the deck and ties. Refined analyses were also performed as part of this project to allow for rating of the arch spans for the existing and proposed conditions.
05/21-06/21	VDOT, Gwynn's Island Swing Bridge Peer Review, Gwynn's Island, VA. Lead Engineer that performed a peer review of the rehabilitation contract documents for major mechanical and electrical rehabilitation of the existing historic truss structure swing span bridge. Jon led the review effort by coordinating between the client and the AECOM review team. He also performed a review of the contract documents and conducted a plan in hand walk through of the construction sequence to identify potential conflicts or issues with the provided contract documents
01/18-08/20	Caltrans, Islais Creek Bridge, San Francisco, CA. Task leader for structural analysis of a dual-leaf movable bridge replacement located in a high seismic zone. He led detailed seismic analysis of the replacement superstructure to verify the bridge could meet required seismic demands after evaluation determined the existing bridge required replacement due to structural deficiencies. Jon also served as task leader for the accelerated replacement design of the machinery pit top slabs, a critical element of the anticipated two-week construction window between closure and reopening to light rail traffic. The project was completed through semi-final design and is currently on hold while the client evaluates alternatives.
07/18-07/19	CN, Railway Rainy Lake Movable Bridge Rehabilitation in Ontario, Canada. Task leader for structural design of a temporary support system to support the 1,130-kip counterweight during counterweight trunnion replacement. The existing 1913 Strauss overhead counterweight movable bridge exhibited trunnion wear requiring bushing replacement. Jon led development of a temporary structural system to lift and unload the counterweight, bypass the trunnion, and transfer loads to the existing substructure. This approach eliminated the need for new foundation construction and supported delivery of bid documents on an accelerated schedule.
07/2013-12/2013	Painting of the Commodore Barry Bridge, Pennsylvania and New Jersey. Structural analysis engineer performing 3D finite element analysis of the long-span cantilever truss bridge subjected to loads required for painting of the bridge. Analysis was conducted using GTSTRUDL to confirm that the proposed painting containment system did not overstress the superstructure when subjected to construction loads in addition to the significant wind load caused by tarping of the structure consisting of a 1,644-ft main span with 822-ft anchor spans crossing the Delaware River.

MPR 4



Firm | Stantec Consulting Services Inc.

Name: **Taylor Perkins, PhD, SE, PE**

Title: Sr. Structural Engineer

Years of relevant experience with this employer | **19**

Years of relevant experience with other employer(s) | **0**

Degree(s) / Years / Specialization | PhD | 2017 | Structural Engineering; MS | 2008 | Civil Engineering; BS | 2007 | Civil Engineering

Active Registration Number / State / Expiration Date | 47449 | LA | 9.30.2027

Year Registered | PE CO: 2023 | Discipline | Structural Engineering

Contract Role(s) / Brief Description of Responsibilities

MPR 4 and Task 3 Load Rating and Analysis Support. Taylor has been involved in the plan preparation, design, **load rating**, and rehabilitation of complex highway and rail bridges of nearly every type. His experience includes concrete bridges, structural steel bridges, long span bridges, seismic evaluation and retrofit, and various types of foundation systems. Taylor has completed Sprat Level I rope access training and has assisted in a wide range of bridge inspections.

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 – 09/18

STATEWIDE FRACTURE CRITICAL INSPECTION SERVICES - PACKAGE 2 - SIMON KENTON BRIDGE LOAD RATING | Kentucky Transportation Cabinet | Statewide, KY. Load Rating Lead. Taylor was the **load rating** engineer of record for the Simon Kenton Bridge, a 1990-ft. long suspension bridge over the Ohio River in Maysville, KY. The structure consists of 465-ft side spans and an 1060-ft main span. The load rating includes 3-D finite element modeling of the full structure in CSi Bridge, with nonlinear effects included to account for large displacements and stress-stiffening of the cables. Components included in the load rating are stringers, floorbeams, stiffening trusses, including gussets, hanger cables with connections, main suspension cables, steel tower piers, and suspension cables anchorages. The rating is performed using LRFR methodology, the rating vehicles include HL-93, four state posting vehicles, four specialized hauling vehicles, and FHWA FAST act's emergency vehicles.

03/18 - 12/19

TBTA BIENNIAL BRIDGE INSPECTION - ROBERT F. KENNEDY BRIDGE LOAD RATING | New York, NY. Technical Lead for the **load rating** of the 200+ ft spans of the Robert F. Kennedy Bridge over the East River and Bronx Kill in NYC. The rated portions include a suspension bridge unit with 1,380-ft main span and 672-ft side spans as well as several through-truss spans. Ratings were performed for both the LRFR and ASR methodologies and incorporated AASHTO specialized hauling vehicles and FHWA FAST act's emergency vehicles. For the suspended spans, a nonlinear finite element model was built in CSi Bridge analyze the large displacements and stress-stiffening effects of the suspension cables. Ratings included stringers, floorbeams, and stiffening trusses, including gussets. Ratings for the Bronx Kill truss spans included stringers, floorbeams, main truss members, and gusset plates. The project also includes ratings for the orthotropic steel decks, which were modeled in 3-D using Ansys.

09/18 - Ongoing

STATEWIDE FRACTURE CRITICAL INSPECTION SERVICES (PACKAGE 2) SIMON KENTON BRIDGE LOAD RATING | Kentucky Transportation Cabinet | Maysville, KY. Load Rating Lead Engineer/EOR for the Simon Kenton Bridge, a 1990-ft long suspension bridge over the Ohio River. Structure consists of 465-ft side spans and a 1060-ft main span. The **load rating** includes 3-D finite element modeling of the full structure in CSi Bridge, with nonlinear effects included to account for large displacements and stress-stiffening of the cables. Components included in the load rating are stringers, floorbeams, stiffening trusses, including gussets, hanger cables with connections, main suspension cables, steel tower piers, and suspension cables anchorages. Rating is performed using LRFR methodology, the rating vehicles include HL-93, four state posting vehicles, four specialized hauling vehicles, and FHWA FAST act's emergency vehicles.

Taylor Perkins, PhD, SE, PE Sr. Structural Engineer - Cont.	
11/18 – 01/22	I-70 BRIDGES UPGRADE DESIGN & QAM SERVICES (WVDOH) West Virginia Highways Wheeling, WV. Structural Engineer. Project required rehabilitation to bring the inventory rating of the 70-year old bridge up to HL-93 standards. Taylor is responsible for technical oversight of the rehabilitation plan as well as QA/QC of the 3-D finite element Arch analysis model and capacity checks for the in-situ and rehabilitated structural elements of the bridge including, arch rib, tie chord, hangers, and floor system members. Evaluation of the arch included extensive global stability evaluations of arch rib buckling modes
09/16 - 08/18	STATEWIDE BRIDGE LOAD RATING - PACKAGE 1 - ARCH LOAD RATINGS Kentucky Transportation Cabinet Various Locations, KY. Load Rating Engineer-of-Record for three arch bridges. Structures include: 535-ft twin tied arches that carry I-24 over the TN River, 186-ft open spandrel steel arch that carries Highland Ave. over I-471 in Campbell Co., and 100-ft concrete infill arches that carry KY 90 over the Cumberland River. The LRFR load ratings incorporated all pertinent structural elements and included HL-93, four state posting vehicles, four specialized hauling vehicles, state superload vehicles, and FHWA FAST act's emergency vehicles.
03/15 – 12/25	US 60 Over Cumberland River Bridge Replacement (Smithland Design) Kentucky Transportation Cabinet District 1 Smithland, KY. Deputy Project Manager and Load Rating Engineer of Record. This \$60M project replaces the existing structure, which carries US 60 over Cumberland River in the town of Smithland, KY. As deputy PM, Taylor had been involved with the project from the planning and environmental phase, in which he led navigation simulation modeling, a span arrangement and structure type selection study, and performed USCG coordination. The replacement structure has a 40-ft clear roadway width and is 1909.83-ft long consisting of a 3-span (368') PPC I-beam south approach unit, a 700.33-ft single truss span over the river, and a 6-span (841.5') PPC I-beam north approach unit. A modified warren through-truss was used for the main span which eliminates vertical members and utilizes rigid frame connections at the top and bottom chord to eliminate the need for sway bracing. The bridge is in a high seismic hazard zone, consequently a response spectrum analysis was performed using a site-specific response spectrum and the structure was designed and detailed to meet AASHTO LRFD criteria for Seismic Zone 3. As Co-Engineer of Record for the main truss span and the supporting piers, Taylor was responsible for all aspects of design and plan production. During the construction phase of the project, he served as document controls manager, working closely with the KYTC Resident Engineer to coordinate construction submittals and address issues that arose.
09/17- 04/21	KY 676 LOAD RATING AND TESTING Kentucky Transportation Cabinet Frankfort, KY. Load Rating Engineer Lead for the twin 3-span post-tensioned segmental box bridge. LRFR load ratings , completed under the 2015 Statewide Fracture Critical Bridge Inspection Package 3, were performed for HL-93 load, four state posting vehicles, four specialized hauling vehicles, state superload vehicles, and FHWA FAST act's emergency vehicles. Analysis for the structure included two independent models in CSi Bridge and BD2 to capture the stage construction effects of the balance cantilever erection. After the load ratings, Taylor supported a load testing of the bridge, which was performed by the Kentucky Transportation Center.

MPR 5



Firm | AECOM

Name: **Jason Mathers, PE, CBI**

Title: Bridge Load Ratings

Years of relevant experience with this employer | **21**

Years of relevant experience with other employer(s) | **0**

Degree(s) / Years / Specialization | BS / 2007 / Civil Engineering

Active Registration Number / State / Expiration Date | PE.0046129 / LA / 03.31.28
Additional active license: DE, PR, PA, NJ, FL, MT

Year Registered | LA PE: 2021 | Discipline | Civil Engineering

Contract Role(s) / Brief Description of Responsibilities | **MPR 5 and Task 5 Lead, Support for Tasks 4, 6 and 7.** Jason is a certified bridge safety inspector and SPRAT Level III rope access worker with experience inspecting, **load rating**, analyzing, and designing repairs for more than 2,300 structures across 25 states and territories for 35 owners. His complex bridge experience includes **segmental and cast-in-place cable-stayed bridges, cantilevered trusses, tied arches, suspension bridges, and movable bridges**. He has coordinated multiple inspection teams using specialized access equipment, managed subcontractor and contractor communication, identified maintenance needs and critical repairs, and prepared detailed technical reports. Jason has reviewed load ratings and designed repairs for steel, timber, prestressed concrete, and reinforced concrete bridges using ASD, LFD, and LRFD methodologies. He is proficient in **AASHTOWare BrR**, PennDOT analysis programs, LARS, STAAD, and **Midas Civil**. His training includes bridge safety inspection and refresher courses, fracture-critical inspection, highway bridge load rating, movable bridge systems, and SPRAT Level III certification.

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).

02/14-04/17 | **LADOTD (Contract No 44-2687, Project No H0097305) In-depth Inspection of Complex Bridges, Various Locations, LA.** **Inspection team leader** for fracture critical/in-depth Inspection of long span bridges. Crescent City Connector, 1575' Cantilevered Truss; I-210 over Prien Lake, 450' Deck Girder; Hwy 182 over Atchafalaya River, 607ft Truss; Rope Access Team Leader responsible for hands-on inspection of the fracture critical members of the Main Span. Utilized rope access to inspect main truss members unable to be reached by typical methods.

04/23-09/26 | **LADOTD Contract No 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA.** **Staff design engineer** for the **Load Rating** IDIQ responsible for the rating and evaluation of approximately 120 bridges throughout the state **using AASHTOWare BrR** software and other approved LADOTD software applications. Bridge types in this task order include precast/cast-in-place slabs, steel I-beams and concrete prestressed girders. Many bridges are supported by timber piles.

03/14-Ongoing | **Montana Department of Transportation (MDT), Statewide Load Rating, Various Locations, MT.** **Structural engineer** responsible for analysis and review of several bridge **load ratings** using **AASHTO BrR and Midas software**. Bridge types varied from slabs, horizontally curved, Girder/Floor-truss/Stringer, to Truss structures comprised of concrete (mild and prestressed reinforcement), steel, and timber materials. Truss ratings also included gusset plate analysis. Several truss bridges were field measured utilizing rope access techniques.

06/19-08/19 | **NASA/John F Kennedy Space Center, Load Rating of Bascule Spans, Indian River Bridge Derating Assessment Study, Kennedy Space Center, FL.** **Structural engineer** responsible for the **load rating** of the Main Bascule Spans and steel side spans for the NASA Causeway over the Indian River. Rating included evaluation of NASA special transport vehicles and Florida legal vehicles.

Jason Mathers, PE, CBI Bridge Load Ratings - Cont.	
11/25-Ongoing	New Jersey Turnpike Authority (NJTA) General Consulting Engineer - Bridge Inspection Program Technical Manager, Statewide, NJ. Structural Engineer responsible performing quality management and calculation checking of load rating and inspection contracts for 6 consultant teams serving NJTA on their 1200+ bridge inventory. Responsibilities include reviewing the calculations and AASHTOWare BrR models produced by other consultant teams for load ratings , establishing and maintaining load rating policy, analyzing bridges for overweight permit requests , special analysis for bridge collision damage after emergency inspections, and general bridge/asset management.
04/20 – 12/22	NDDOT, Local Public Agency Bridge Inspection and Load Rating, Northwest Region. Structural Engineer for the load rating of 619 local agency bridges in northwest North Dakota. Bridge types include trusses, steel girder, prestressed concrete girder, R/C slabs, T-Beams, and timber. AASHTOWare BrR was used for the majority of the ratings. Substructures and truss bridge pins were rated, as needed, using in-house developed manual calculation and spreadsheet tools.
07/17-08/22	Mississippi Office of State Aid Road Construction, Bridge Load Rating, MS. Structural engineer responsible for calculation checking and quality control of load rating efforts for this assignment of more than 300 bridges over multiple contracts, using the AASHTOWare BrR software, including steel, reinforced concrete, prestressed concrete, and timber superstructures, as well as timber pile substructures and timber decks. Field-noted deterioration is included in calculations and load rating models.
05/12-12/18	Pennsylvania Department of Transportation - District 5-0, Load Rating Analysis, Carbon, Monroe, and Schuylkill Counties, PA. Structural engineer responsible for preparing calculations for load ratings performed on the contract (approximately 150). Load ratings are performed on deteriorated structures based on the NBIS inspections provided by AECOM. Responsible for preparing reports, and updating posting recommendations based on analysis results.
05/16-05/20	Delaware River Port Authority (DRPA), Betsy Ross 2016 & 2020 Biennial Inspection, PA and NJ. Inspection team leader for the inspection of 1620' long continuous steel truss crossing of the Delaware River. Responsibilities included hands on inspection of the fracture critical members and fatigue sensitive details.
05/14-12/14 and 05/18-12/18	DRPA, Commodore Barry 2014, 2018, & 2022 Biennial Inspection, PA and NJ. Inspection team leader and rope access worker for the inspection of 1644' long cantilevered truss crossing of the Delaware River. Responsibilities included hands on inspection of the fracture critical members and fatigue sensitive details.
04/16-01/17	West Virginia Division of Highways, CPL Thomas Bennett Memorial Bridge Analysis, Monongalia County, WV. Structural engineer performing a load rating analysis of the CPL Thomas Bennett Memorial Bridge (Uffington Truss).
04/08-12/12	DelDOT, Movable Bridge Inspections, New Castle, Kent, and Sussex Counties, DE. Structural inspector for the regular NBIS and interim inspections of several movable bridges over waterways. Inspections included fixed trunnion and rolling lift bascule type bridges.

MPR 5



Firm | AECOM

Name: **Sarah Elsworth, PE**

Title: Task 1, 6, 7, and Load Rating Team 1 Lead

Years of relevant experience with this employer | **2**

Years of relevant experience with other employer(s) | **7**

Degree(s) / Years / Specialization | MS / 2018 / Civil Engineering; BS / 2016 / Bridge Engineering

Active Registration Number / State / Expiration Date | PE.0046814 / LA / 09.30.2028

Year Registered | PE LA: 2022 | Discipline | Civil Engineer

Contract Role(s) / Brief Description of Responsibilities | **MPR 5, and Tasks 1, 6, 7 and Load Rating Team Lead.** Sarah brings more than eight years of bridge load rating experience, including extensive use of **AASHTOWare BrR** for prestressed concrete, steel plate-girder, truss, and slab bridges as well as movable bridges such as swing, vertical lift, bascule and pontoon bridges. Her LADOTD experience includes **load rating 27 complex bridges, leading analyses and quality reviews for 617 off-system bridges, and reviewing models and reports for 120 structures.** For this contract, she will lead plan and record retrieval and review, direct load rating assignments, oversee updates to BrR models, and update bridge rating reviews based on verified structure data, current conditions, applicable vehicles, and LADOTD requirements.

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).

10/25-Ongoing | **LADOTD, US 190 Overpass Near Opelousas Engineering, Preliminary and Final Design, Opelousas, LA. Task Leader** for design tasks in accordance with AASHTO LRFD, BDEM, and project-specific design standards. Performed and reviewed structural calculations to support design accuracy, quality, and constructability. Managed task scope, schedule, and budget, tracking progress against design hours and identifying risks early. Oversaw preparation of design submittals in alignment with contract scope, BDEM requirements, and milestones. Coordinated with roadway, geotechnical, hydraulics, and CAD teams to integrate design packages.

10/25-Ongoing | **LADOTD, Movable Bridge IDIQ 2025 – Ted Hickey Bridge (H011969), Orleans Parish, LA. Bridge Engineer** supporting engineering services for movable bridge inspection, **load rating**, evaluation, and rehabilitation recommendations. Assisting with structural assessment, analysis of bridge components, and development of repair strategies to extend bridge service life.

06/26-Ongoing | **LADOTD, Movable Bridge IDIQ 2025- Bayou Bonfouca Bridge (H.012737), LA. Project engineer** who worked on the **load rating analyses** and quality control for the as-inspected and as-repaired superstructure of the swing bridge, while providing quality assurance oversight for the substructure load rating team.

01/25-Ongoing | **LADOTD Contract No 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA. Bridge Engineer and Checker** that developed **load rating** templates for multi-girder spans using **LEAP modeling and AASHTOWare BrR**, analyzing complex bridges and quality review of simple bridges **for 120 bridge structures.**

12/25-Ongoing | **LADOTD, Movable Bridge IDIQ 2025- Dularge Bridge Inspection (H.011973), LA. Project engineer** who worked on **load rating analyses** and quality control for the as-inspected and as-repaired superstructure of the bascule bridge, while providing quality assurance oversight for the substructure load rating team. The 2,311-foot bascule bridge was evaluated using data obtained from the in-depth inspection conducted under the contract. Identified structural members requiring repair based on load rating results and supported the development of repair recommendations.

Sarah Elsawah, PE Tasks 1, 6, 7, and Load Rating Team Lead - Cont.	
01/25-03/25	LADOTD, Bridge Preservation IDIQ 2022-2027 – LA 641 Bridge Load Rating and Repair, St James Parish, LA. Bridge Engineer responsible for calculating load ratings for the existing bridge condition and prepared comprehensive load evaluation reports. Determined post-repair load ratings and developed as-designed load rating reports for damaged prestressed concrete girders.
05/19-06/19	LADOTD, LA 1 Bridge Load Testing over Lockport Canal, Lafourche Parish, LA. Project Engineer that developed finite element bridge models using MIDAS software, evaluated field load testing data , and updated AASHTOWare BrR models to assess bridge performance and determine whether load posting restrictions could be removed.
01/26-Ongoing	ODOT, Main Avenue Bridge on SR 2 over the Cuyahoga River Feasibility Study, Ohio. Project Engineer for the structural assessment of the Main Avenue Bridge cantilever truss system. Performed independent quality control review of truss member section loss assessments and verified the incorporation of deterioration effects into the structural load rating analysis .
01/19 – 08/19	LADOTD, Load Rating of 27 Complex Bridges, Statewide, LA. Project Engineer who performed bridge load ratings using AASHTOWare BrR, RC-Pier, and Mathcad for multiple bridge types including prestressed girders, steel plate girders, truss bridges, and swing spans, and prepared detailed load rating reports.
07/19 – 10/21	LADOTD, Load Rating of 617 Off-System Bridges, Statewide, LA. Project Engineer who led load rating analyses for slab bridges and performed quality reviews of load rating models and reports for various bridge types including precast slabs, concrete slabs, prestressed quad beams, and swing span bridges.
03/20 – 06/20	LADOTD, Job Number 44-17310 Bridge Load Testing, Statewide, LA. Project Engineer responsible for the development of 3-D finite element bridge models using MIDAS software, evaluated field load testing results, and prepared reports demonstrating bridges could safely carry higher loads than previously estimated.
03/20 – 04/20	LADOTD, I-20 Bridge over Lakeshore Drive and KCS Railroad Rehabilitation, Caddo Parish, LA. Project Engineer who prepared feasibility study report, rehabilitation concepts, and preliminary cost estimates for curved steel bridge structures as part of a Stage 0 bridge rehabilitation study.
02/22-06/22	LADOTD, Load Rating of 36 Bridges, Statewide, LA. Project Engineer who contributed to the preparation of load rating results for a 3,455-foot steel bridge and reviewing span ratings completed by other team members as part of a statewide load rating project.
05/24-12/24	LADOTD, Load Rating of 89 Bridges, Statewide, LA. Project Engineer who assisted the team in reviewing load rating reports for bridges and prepared load rating reports in the state of Louisiana. The project consisted of complex and simple bridges , including railroad flat car, steel low truss swing span, suspended steel plate girder, slab spans and continuous deck slab span.
07/22-06/23	LADOTD, Load Rating of 114 bridges, Statewide, LA. Project Engineer who reviewed documents and plans for bridges, and generated detailed reports presenting an overview of load ratings, results, and schematics . Responsibilities also included ensuring quality control of load rating models and reports produced by other engineers, maintaining accuracy and consistency throughout the analysis and load rating process. The bridge structures encompassed a variety of types, including timber spans, steel spans, concrete spans, continuously voided slab bridges, continuous steel, truss, slab, and a pontoon bridge.
06/18-08/18	LADOTD, Load Rating of 18 Bridges, Statewide, LA. Project Engineer who performed load ratings , including swing spans, concrete box girders, truss spans, and continuous steel plate girders. Responsibilities includes analyzing and rating deficient structures, and preparing load rating reports. Additional responsibilities encompassed quality control of load rating models and reports prepared by other engineers.

MPR 5



Firm | AECOM

Name: **Landon Whitton, PE, CBI**

Title: Bridge Rehabilitation/LRFR Load Ratings Task Leader

Years of relevant experience with this employer | **9**

Years of relevant experience with other employer(s) | **6**

Degree(s) / Years / Specialization | BS / 2009 / Mechanical Engineering

Active Registration Number / State / Expiration Date | 41523 / LA / 09.30.27
Additional active license: MS, AR

Year Registered | PE LA: 2015 | Discipline | Civil Engineer

Contract Role(s) / Brief Description of Responsibilities | **MPR 5 and Task 2 Site Visit Support.** Landon brings extensive bridge inspection and load rating experience across multiple states, including serving as Project Manager for AECOM's MDOT and OSARC Bridge Load Rating Services contracts and for NDDOT's 2020–2021 and 2022–2025 inspection and load rating cycles. As a former Mississippi DOT inspection and load rating engineer, he understands both consultant and agency requirements, including federal submittals. For this assignment, Landon will support site visits by documenting existing conditions, verifying field measurements, and collecting the information needed for accurate load rating analyses.

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).

01/25-Ongoing | **LADOTD, No. H.015603: LA-641 Bridge Insp and Repair, St. James Parish, LA. Bridge Inspection Team Leader.** Landon was the qualified bridge inspection team leader on this project. He performed the arms length inspection of the structures damage, providing type/size/location level information of the prestressed concrete girder defects. Landon also provided oversight of the documentation efforts.

08/17-Ongoing | **Mississippi Office of State Aid Road Construction, Bridge Load Rating, Statewide, MS. Project Manager/Inspection Team Leader** overseeing inspections and **load ratings on over 500 county and urban bridges** across the Northern part of the state. The substructures were a mix of timber piling, steel H-pile, and reinforced concrete piles. The superstructure types inspected/evaluated during this project included; steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, steel railroad car girders, and steel military bridges. **Load ratings were performed using AASHTOWare BrR software** with accompanying external calculations.

06/20-Ongoing | **North Dakota Department of Transportation, North Dakota County Bridge Inspections, Statewide, ND. Project Manager and Inspection Team Leader** overseeing **1,300+ inspections and load ratings of county bridges** across the northwestern part of the state. The substructures include a mix of timber pile bents, reinforced concrete configurations, steel H-pile bents, and masonry abutments. Superstructure types inspected/evaluated include steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, and steel pipe culverts. Landon aided in the routine inspection of dozens of these bridges in accordance with the NBIS Standards using the Recording and Coding Guide for NBI data reporting and the AASHTO Manual for Bridge Element Inspection. The majority of structures were rated using **AASHTOWare BrR**.

04/18-12/18 | **MDOT, Post-Tensioned Load Ratings, Statewide, MS. Project Manager and Load Ratings Engineer** performing **load ratings on 13 post-tensioned bridges** using CSIBridge software. The superstructure types were Box-Girder w/ post tensioning over the piers, I-girders w/ post tensioning, and haunched I-girders with post-tensioning.

Landon Whitton, PE, CBI Bridge Rehabilitation/LRFR Load Ratings Task Leader - Cont.	
07/22-12/22	MDOT, I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection, Biloxi, MS. Project Manager and Inspection Team Lead performing the in-Depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Landon also prepared the approach span portions of the report.
06/20-01/22	MDOT, I-20 EB/I55 NB Box Girder Rehabilitation Conceptual Design, MS. Project Manager providing Phase A bridge conceptual plans for rehabilitation and replacement options for I-20 EB to I-55 NB. The bridge is a dapped end box girder bridge, and the rehabilitation options maintained one lane of travel during construction.
05/20-12/24	MDOT, Scour Evaluations, Multiple Locations, MS. Bridge Engineer. Project included performing scour evaluations of I-59 over Tangipahoa River, and I-55 over Black Creek and Little Black Creek. Landon was responsible for the inspection of the substructure, and assisted in determining substructure penetration depths for future scour events.
08/16-Ongoing	MDOT, Phase-A Bridge Designs, Multiple Locations, MS. Project Manager. Landon serves as project manager and lead bridge designer of the Phase A projects for the following locations: SR 15 in Tippah County, MS, SR 145 in Clarke County, MS, Madison Avenue in Madison County, MS.
05/20-06/25	MDOT, Statewide Bridge Deck Scanning and Visual Surveys, Multiple Locations, MS. Project Manager for deck scanning and visual surveys for 68 bridges in Mississippi. These surveys provided an in-depth analysis of the existing condition of these concrete bridge decks to be used for rehabilitation. Landon was responsible performing visual surveys of the bridge deck undersides. prestressed concrete girder, reinforced concrete slabs and T-beams, timber, concrete box culverts and corrugated metal pipe culverts. Many of these inspections required collecting measurements for load rating analysis when bridge plans were not available
05/15-05/16	MDOT NBIS Compliance Field Review (while at MDOT), Statewide, MS. Review Team Member. Reviewed 20 inspections performed by MDOT bridge inspectors, by inspecting the subject bridges with the Local FHWA Bridge Engineer and MDOT's Inspection Program Manager. FHWA determined MDOT's compliance to the NBIS based on the results of this review.
08/12-06/15	MDOT Tennessee-Tombigbee Waterway Routine Inspections (while at MDOT), MS. Inspection Team Leader on the inspection team for the yearly Fracture Critical inspections of five Bridges along the Tennessee-Tombigbee Waterway. Each Bridge contained a 1,000ft parabolic steel girder superstructure
08/12-05/15	MDOT US 82 Cable-Stayed over Mississippi River Bridges Fracture Critical (while at MDOT), MS. Inspection Team Leader. For this project, MDOT needed a fracture critical inspection on the superstructure of the Cable-Stay Bridge in Greenville, MS over the Mississippi River. In this inspection, all fracture critical members on the underside of the deck were inspected. Landon helped with the inspection and report.

MPR 5



Firm | Stantec Consulting Services Inc.

Name: **Brian Johnson, PE**

Title: Principal, Structural Section Manager

Years of relevant experience with this employer | **21**

Years of relevant experience with other employer(s) | **5**

Degree(s) / Years / Specialization | MS | 2000 | Civil Engineering; BS | 1999 | Civil Engineering

Active Registration Number / State / Expiration Date | 31273 | LA | 9.30.2026

Year Registered | PE LA: 2004 | Discipline | Civil Engineering

Contract Role(s) / Brief Description of Responsibilities | **MPR 5 and Task 3 Load Rating/Analysis Support.** Brian brings over 26 years of engineering experience specifically related to structural projects and serves as the Structural Section Manager in the Baton Rouge office. His primary expertise lies in analysis, design, rating, inspection, and rehabilitation of bridges. Brian has managed bridge projects with a variety of structure types such as prestressed concrete girders, steel truss vertical lift bridges, long span steel trusses, horizontally curved steel plate girders, concrete box culverts, and retaining walls. He has overseen several NSBI bridge inspection projects and been involved in several hydraulic studies for bridge replacement projects in both Mississippi and 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).

01/17 - 10/18

LOAD RATING AND POSTING OF 110 ON-SYSTEM BRIDGES | LADOTD | Statewide, LA. Project Manager. Brian was responsible for managing **load rating** activities, scheduling progress meetings, managing the status of each bridge, delivering progress submittals, and coordination with LADOTD. This project involved the load rating and posting of **110 on-system bridges for LADOTD**. Bridges were located throughout the state and were load rated in accordance with current LADOTD and AASHTO specifications. **AASHTOWare BrR**, CSI Bridge, and RC-Pier were used to determine rating factors and posting requirements.

03/13 - 03/17

LOAD RATING AND POSTING OF 630+ ON-SYSTEM BRIDGES | LADOTD | Statewide, LA. Project Manager. Brian was responsible for managing **load rating** activities, scheduling progress meetings, managing the status of each bridge, delivering progress submittals, and coordination with LADOTD. A monthly meeting was scheduled with the client to assist with addressing incomplete data needs and modeling approaches for more complicated structures. Over **630 bridges** statewide were load rated in accordance with current LADOTD and AASHTO specifications. Models were developed in **AASHTOWare BrR**, CSI Bridge, STAAD and RC-Pier to determine rating factors and bridge posting requirements. Structure types included structural steel plate girders and rolled beams, prestressed concrete girders, concrete slab spans, hammerhead and multi-column concrete bents, and steel beam bents.

02/19 - 11/22

ALDOT BRIDGE LOAD RATING | ALDOT | Statewide, AL. Project Manager. Brian managed three different task orders with ALDOT to perform **load ratings on 84 bridges**. Structure types included steel plate girders, prestressed concrete girders, concrete T-beams, voided concrete slabs, and post-tensioned channel beams. **AASHTOWare BrR** was used for modeling and analysis. Ratings were in accordance with the AASHTO LFR method and current ALDOT standards. Brian's responsibilities included performing quality assurance on load rating reports and transmitting deliverables to ALDOT.

Brian Johnson, PE Principal, Structural Section Manager - Cont.	
10/17 - 01/19	AASHTOWARE BRIDGE LOAD RATING MDOT Statewide, MS. Project Manager. Brian served as the project manager for the load rating of 120 bridges using AASHTOWare BrR . Structure types included steel plate girders, prestressed concrete girders, concrete T-beams, concrete slab spans, and integral reinforced concrete multi-cell box girders. Ratings were performed in accordance with current MBE standards. Brian was responsible for managing project activities, developing rating criteria, scheduling internal and external progress meetings, performing QC/QA, and delivering final reports.
08/10 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Project Manager. Brian manages all field and office work for inspecting and load rating over 200 bridges annually throughout the state. Inspections and load ratings are performed in accordance with current NBIS and procedures as outlined in the AASHTO MBE. Brian is responsible for managing project activities, inspection scheduling, and performing QC/QA on field inspections, load ratings, and inspection reports. Structure types include steel trusses, structural steel plate girders, steel railroad flat cars, reinforced concrete girders and slabs, reinforced concrete box culverts, and masonry arches.
12/20 - 04/22	TRUSS BRIDGE INSPECTIONS AND LOAD RATINGS MDOT Statewide, MS. Project Manager. This project consisted of inspecting and load rating four unique steel through trusses . Brian served as project manager and was responsible for coordinating inspection schedules, overseeing report development, reviewing load rating reports, and communications with MDOT. Detailed, arm's length, inspections were performed on the steel truss spans only. Load ratings were performed in accordance with the AASHTO LFR method and MDOT standards. Results from the analyses were used to determine fracture critical members that could not be determined from traditional structural mechanics. Final inspection reports will be used by MDOT to develop repair / rehabilitation plans.
08/19 - 04/24	I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA. Lead Structural Engineer. Brian leads the structural design efforts of two new flyover ramps (concrete slab spans, prestressed concrete girder spans, twin horizontally curved steel tub girder spans, and complex substructure units), one bridge widening (concrete slab spans), noise barriers, precast box culverts, roadway and pier protection barriers, and miscellaneous structural elements. During design Brian orchestrated a series of meetings with the contractor, fabricators, vendors, and suppliers to optimize and streamline the design. In addition, he oversees construction support which includes shop drawing reviews, addressing RFIs, and providing construction engineering services.
02/05 - 03/08	FLORIDA AVENUE BRIDGE / NAVIGATIONAL CANAL LADOTD Contract No. H.005967 New Orleans, LA. Project Manager. Brian oversaw the structure layout, design, and project coordination for this project resulting in a three-level, fully directional interchange to serve as the approaches to the main span bridge over the Inner Harbor Navigational Canal. Project components included long span (up to 280-ft) horizontally curved steel plate girders at an extremely tight curvature (radius equal to 265-ft); prestressed concrete girders (Types III, IV, BT-72, and BT-78); high-level piers (60-ft to 90-ft tall); and complex footing designs within tight utility corridors. Project design was in accordance with the LRFD bridge design specifications. Steel girders were designed and analyzed using MDX and STAAD. In 2008, 95% plans were completed and transmitted to the client; however, the project was put on hold to determine future project scope that is pending decisions by state and local leaders regarding recovery and redevelopment of the New Orleans East area.

	Firm AECOM			
	Name: Binu Shrestha, PE Title: Load Rating Engineer		Years of relevant experience with this employer	12
			Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		MS / 2010 / Civil Engineering; BE / 2007 / Civil Engineering		
Active Registration Number / State / Expiration Date		54871 / MN / 06.30.2028 Additional active license: IA, ND, SD, UT, CO		
Year Registered		PE MN: 2017	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 3 - Analysis & Load Rating. <i>Binu has 14 years of structural engineering experience in bridge design, analysis, checking, load rating, and construction support. Her technical experience includes prestressed concrete, steel, concrete slab bridges, substructures, retaining walls, culverts, and transportation-related structures. She has served as Engineer of Record and Load Rating Engineer for bridge replacement, rehabilitation, deck replacement, and inspection/load rating projects, including projects for CDOT, OHDOT, North Dakota DOT, South Dakota DOT, Kentucky Transportation Cabinet, and Iowa DOT. Her experience includes AASHTOWare BrR load ratings, design calculations, plan/specification preparation, and coordination with Minnesota State Aid Bridge Office.</i>		
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).			
01/26-Ongoing	BSMT (ODOT & KYTC), Brent Spence Bridge Project, OH/KY. Load Rating Reviewer for the \$4B 6-mile-long project's single and multi-span prestressed beam bridges.			
01/24 - 11/25	KYTC, GEC Bridge Program, Statewide KY. Load Rating Reviewer for bridge replacement projects.			
01/26 - Ongoing	OHDOT District 12, VAR-D12 Bridge Inspections - Main Ave Bridge Over the Cuyahoga River, Cleveland, OH. Load Rating Reviewer for Main Ave Bridge, a cantilever truss bridge. Access methods include snoopers trucks, structure climbing, and rope access.			
03/21-06/22	Hennepin County, CSAH 152 / Osseo Road Deck Replacement, Hennepin County, MN. Engineer of Record. Served as Engineer of Record for the deck replacement project. Coordinated with Hennepin County on deck replacement, joint replacement, plan and specification preparation, and project delivery. Also coordinated with the Minnesota State Aid Bridge Office regarding load rating of the structures.			
09/15-12/20	Metropolitan Council Southwest Light Rail Transit, Metro Green Line Extension, Minneapolis, MN. Structural Designer / Checker. Designed roadway and LRT bridges using Minnesota standard prestressed beams and designed special retaining walls for LRT loading. Responsibilities included design of superstructure and substructure components, retaining wall design, structure checking, and construction-phase design support.			
09/20-12/21	North Dakota DOT 2020-2021 LPA Bridge Inspection and Load Rating, ND. Load Rating Engineer / Engineer of Record. Checked rating analyses and served as Engineer of Record for load rating of approximately 750 in-service bridges at the county and LPA level. Data was gathered through plans, shop drawings, and field measurements. Superstructure load ratings were performed primarily using AASHTOWare BrR in accordance with NDDOT guidance. Structure types included timber beam, nail-laminated timber, rolled steel beams, prestressed concrete shapes, slab bridges, and trusses.			

Binu Shrestha, PE Task 3 - Analysis & Load Rating - Cont.	
12/20-11/24	South Dakota DOT West River Bridge Bundle Project, SD. Bridge Designer / Checker. Supported design of two bridge bundles in western South Dakota. Responsibilities included design and checking of three-span concrete slab bridges and cast-in-place box culverts.
11/23-10/25	SDOT, US 16 Bridge Replacement, Pennington County, SD, Lead Engineer. Lead engineer for replacement of an existing concrete slab bridge with a prestressed beam bridge supported on integral abutments. The bridge replacement project is currently under design development.
07/17-08/18	IADOT, Viking Road over IA 58, Black Hawk County, IA. Design Reviewer. Reviewed plans and design calculations for a grade separation project. The project lowered the grade at the Viking Road and IA 58 intersection to provide freeway-type traffic flow on IA 58. The Viking Rd bridge is a prestressed beam bridge supported on integral abutments with tie-back wall wrap.
01/20-06/21	Kentucky Transportation Cabinet Bridging Kentucky Program, KY. Structural Designer / Load Rating Engineer. Supported replacement or rehabilitation of bridges under a statewide program involving more than 1,000 bridges . Responsibilities included inspection support, feasibility evaluation, design of replacement structures, design checking, and load rating of existing and proposed structures.
01/18-06/18	KYTC, KY 244 over CSX Railroad and US 23, Greenup County, KY. Bridge Designer. Designed bridge piers for KY 244 over CSX Railroad and US 23. The bridge is located near the Ohio River and spans over railroad, highway, and existing KY 244 facilities. Piers were designed for vessel collision and seismic loads and supported on piles.
11/20-06/26	OSARC, Mississippi Office of State Aid Road Construction Timber and Complex Bridge Inspection and Load Rating, Jackson, MS. Load Rating Engineer. Checked rating analyses for timber and complex county-owned bridges. Data for load rating was gathered through plans, shop drawings, and field measurements. Superstructure ratings were performed using AASHTOWare BrR in accordance with OSARC guidance. Structure types included timber beam, nail-laminated slab, and concrete channel beam bridges. Timber piles and pile caps were rated using in-house calculation spreadsheets.
7/17-11/17	IADOT, Granger Creek Bridge, IA. Bridge Designer. Designed superstructure and substructure elements for a three-span curved, continuously welded steel girder bridge. Bridge abutments and walls were supported on piles, and piers were supported on spread footings.
05/16-10/17	IADOT, Catfish Creek Bridge, IA. Substructure Designer. Designed piers for east and west bridges over Catfish Creek. The structures are five-span prestressed concrete beam bridges with pier foundations supported by a combination of spread footings and piles.

		Firm	AECOM	
Name: Craig Parent, PE, SE Title: Associate Vice President, Project Manager VI		Years of relevant experience with this employer		30
		Years of relevant experience with other employer(s)		0
Degree(s) / Years / Specialization		BS / 1995 / Civil Engineering; MS / 1997 / Civil Engineering		
Active Registration Number / State / Expiration Date		36117 / CO / 10.31.2027 Additional active license: UT (Structural), AZ, CA		
Year Registered		PE CO: 2002	Discipline	Civil/Structural Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 3 - Analysis & Load Rating. <i>Craig has extensive experience managing on-call load rating contracts, individual task orders, and project specific contracts including small bridge rehabilitation and replacements; complex structural repair and retrofit; emergency repair and replacement; and large multidisciplinary projects such as grade-separated interchanges. His rehabilitation and repair experience includes non-destructive load testing, bridge deck scanning (GPR and IR), finite-element modeling, bridge jacking, substructure replacement, foundation augmentation, concrete deck repair, fatigue retrofit, and bearing and expansion joint replacement.</i>		
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).			
07/20 – 09/21	MDOT, Repair Assessment of Bridge No. 93.1, I-20 EB to I-55 NB, Jackson, MS. Independent Technical Reviewer. Responsible for the load rating and repair recommendations. This bridge exhibits diagonal cracking of the concrete girders and spalling at the dapped girder ends which weakened the structural integrity of the bridge and warranted a load posting. The load rating was completed using a 3D finite model using CSiBridge software. Craig provided subject matter expertise for rehabilitation measures such as bearing repair/ replacements, bridge seal using high molecular weight methacrylate (HMWM), concrete patching, expansion joint replacement, and dapped girder rehabilitation.			
03/20 – 01/21	City of Colorado Springs, Colorado Avenue Bridge Rehabilitation, Colorado Springs, CO. Bridge Engineer. Responsible for load rating and quality checking the design and rehabilitation plans for two 95'-0" wide, 6-span precast concrete I-girder bridges over Sierra Madre Street and UPRR, and Monument Creek. The bridge decks were evaluated using ground penetrating radar survey to determine deck deterioration and depth of cover to reinforcing, as well as infrared thermographic survey to locate deck and overlay delamination. These bridges further underwent a life cycle cost analysis comparing two deck repair and overlay material alternatives, followed by recommendations for repair of displaced bearing devices; replacement of aging expansion joints; and repair of localized deck deterioration.			
01/19 – 12/19	ODOT, Bridge Load Ratings, Various Locations, OH. Task Leader and Quality Checker. Responsible for 60 bridges in Ohio using AASHTOWare BrR software. The structures typically included rolled steel beams and welded steel plate girders rated in accordance with Ohio DOT policies and AASHTO specifications. The rating team evaluated multiple complex structures to determine innovative methods to rate in BrR rather than using more costly methods using finite element analysis software.			
06/16 – 06/18	CDOT, Bridge Load Ratings, Various Locations, CO. Task Leader and Quality Checker. Responsible for load rating over 60 structures using AASHTOWare BrR software in accordance with the CDOT Bridge Load Rating Manual and AASHTO specifications. Structure types include concrete slab and girder, continuous concrete slab and girder, continuous steel girder bridges, and reinforced concrete t-beam structures. Worked directly with the CDOT to deliver rating packages under tight schedule and budget constraints.			



Firm | AECOM

Name: Daniel Boyd, PE, CBI

Title: Task 2 Lead

Years of relevant experience with this employer

7

Years of relevant experience with other employer(s)

13

Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering		
Active Registration Number / State / Expiration Date	36728 / LA / 03.31.2028 Additional active license: MS, TX, AR		
Year Registered	PE LA: 2011	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	Task 2 Site Visit Lead. Daniel is a Louisiana-based PE and Certified Bridge Inspector who combines hands-on field experience with technical leadership in bridge load rating analysis and project delivery. As AECOM's Louisiana Bridge Division Lead and project manager for multiple assignments under LADOTD's 2023 Bridge Preventive Maintenance IDIQ, he understands how observed conditions, field measurements, and available bridge records inform defensible engineering decisions. As the Site Visit Task 2 Lead, Daniel will plan and coordinate field activities, guide condition verification and data collection, and confirm that load rating teams receive complete, reliable information. He will direct technical staff, review calculations and deliverables, and maintain consistency with LADOTD and AASHTO requirements.		

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).
05/25-Ongoing	LADOTD, Movable Bridge Rehabilitation Contract #1, Orleans, Cameron, Iberia, Terrebonne, and St. Tammany Parishes, LA. Deputy Project Manager and Structural Discipline Leader for Fixed Spans. Team lead for inspections of fixed spans, developing site work safety plans for each of the five bridges, review of inspection reports prior to submittal, and coordination with load rating team members on all five bridges. Coordinating with other disciplines to develop scopes of work, cost estimates, and schedules for repair and rehabilitation for each of the five bridges. Completed LADOTD's Historic Bridge Training as required for this project.
04/25-Ongoing	LADOTD, US 190: UPRR Overpass Near Opelousas, St. Landry Parish, LA. Project Manager and Structures Discipline Leader in Responsible Charge for this multi-discipline project that is currently providing preliminary and final design services for resurfacing and/or reconstruction and widening US 190 east of the I-49/US 190 Interchange near Opelousas, LA. This project includes bridge replacements over Little Teche Bayou and UPRR and retaining walls near the UPRR tracks, roadway design, supplemental design survey, and bridge hydraulic design and analysis. Extensive railroad coordination will be required for the bridge replacements crossing the UPRR tracks. This coordination is currently in progress with LADOTD's Rail Coordinator, Shawn Luke.
01/25-05/25	LADOTD LA 641 Bridge over I-10, Gramercy, LA. Project Manager, Bridge Inspector, and EOR for the structural repair details for the contract. Performed an emergency bridge inspection to confirm superstructure damage and load posting requirements, pre- and post-repair load ratings , and prepare structural repair plans for the LA 641 Bridge over I-10 WB to mitigate the damage incurred by an equipment impact to this bridge in St. James Parish and extend the service life of this 1584-ft, multi-span, pre-tensioned concrete girder bridge.

Daniel Boyd, PE, CBI Task 2 Lead - Cont.	
07/25-Ongoing	LADOTD, IDIQ Contract for In-Depth Bridge Inspection, Statewide, LA. Structural Inspector. Performed emergency inspection of the Bayou Dularge Bascule Bridge (H.009730.5) following LADOTD observations of bascule rocking during bridge operation. Worked closely with team to develop repair plans and provide construction coordination. Also participated in multiple routine structural inspections and weathering steel patina inspections
01/20-Ongoing	TxDOT, LBJ East Design-Build Project, Dallas, TX. Structural Task Leader / Engineer of Record in Responsible Charge for the design of Ancillary 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. Serving as the bridge structural task leader in Responsible Charge (03/2022 – present) during Design Services During Construction (DSDC) phase serving as Engineer of Record on drawing and/or calculation revisions, answering RFI's, developing solutions to field/construction issues, etc. Requires extensive coordination with other disciplines and the construction contractor to provide timely, efficient solutions to maintain construction schedules.
03/23-09/24	LADOTD, LA-10 Bayou Carron Bridge Project, Washington, LA. Project Manager and Structural Task Lead and oversaw overall quality assurance for the project. Final bridge design services to replace an existing truss bridge over Bayou Carron. Daniel and the AECOM Team worked integrally with the LADOTD/PM, Dana Feng, geotechnical, roadway, and district staff to develop final design calculations, bridge quantity cost estimates, and construction documents for this 3-span replacement bridge using LG36 precast, pretensioned concrete girders.
03/23-12/24	LADOTD, LA-561 Boeuf River Bridge Replacement Project, Hebert, LA. Project Manager and Structural Task Lead for preliminary roadway and bridge design to replace a 3-span truss bridge over the Boeuf River in Richland and Caldwell Parishes. Daniel and the AECOM Team worked with the LADOTD project manager and geotechnical, environmental, and district staff to confirm approach roadway, drainage, right-of-way, utility, and bridge requirements to replace this structurally deficient bridge.
10/20-04/25	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 in Responsible Charge and EOR for the final asbuilt Load Ratings for all new bridges on the project (03/24 – 06/24).
04/20-11/20	Port of Gulfport, Port of Gulfport Connector, Gulfport, MS. Deputy Project Manager and Structures Discipline Leader in Responsible Charge for preliminary structural design. 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
10/06-08/11	LADOTD, US 71/165 Fort Buhlow Bridge/KCS Railroad Overpass, Alexandria, LA. Bridge Design Engineer responsible for 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.



Firm AECOM

Name: **David Raffensperger, CBI**

Title: Inspection Team Leader

Years of relevant experience with this employer **26**

Years of relevant experience with other employer(s) **0**

Degree(s) / Years / Specialization AA / 1999 / Architectural Technology

Active Registration Number / State / Expiration Date N/A

Year Registered N/A Discipline N/A

Contract Role(s) / Brief Description of Responsibilities **Task 2 Site Visit Support.** Dave has 24 years of experience in the inspection of bridge structures. He has been a Certified Bridge Safety Inspector since 2002 and has performed bridge inspection services for over 3,000 structures in seven states, Puerto Rico, and in the province of Saskatchewan, Canada. David has been the Team Leader on several NBIS inspections that included hands-on inspection of NSTM members and NDT of pins and pin-and-hanger systems.

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).
06/21 - Ongoing	PennDOT District 6-0, Safety Inspections of State-Owned Bridges, Philadelphia County, PA. Bridge Inspection Team Leader for the back-to-back 2-cycle contracts focusing on structures within the high ADT I-95, US Route 1, and I-76 SR 309 corridors. The assigned bridges typically require specialized access, traffic control, railroad coordination, and non-destructive testing.
05/24 - 11/24	Montana Department of Transportation (MDT), Bridge NDT Term Contract 2024-2026, Statewide MT. Team lead performing bridge nondestructive testing inspections of pin and hanger assemblies. The first term assignment included non-destructive testing of 33 bridges with 463 pins and 145 hangers. To allow MDT to conduct bridge inspections more efficiently, the term assignment also included the routine inspection for six of the bridges, and the NSTM inspection of two of the bridges. The assigned work included coordination with the MDT staff in the Great Falls, Butte, and Missoula Districts for inspection access, traffic control, and railroad protection. The inspection results and NDT reports were input and uploaded into BrM.
04/14 - 12/14 04/18 - 12/18 04/22 - 12/22	Delaware River Port Authority (DRPA), Commodore Barry Bridge 2014, 2018 & 2022 Biennial Inspections, PA & NJ. Inspection Team Leader for the biennial inspections that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included UT of the pins and electro-slag and A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
04/10 - 12/10 04/16 - 12/16 04/20 - 12-20 04-24 - 12/24	DRPA, Betsy Ross Bridge 2010, 2016, 2020 & 2024 Biennial Inspections, PA & NJ. Inspection Team Leader for the biennial inspections that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures. This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report.
12/12 - 06/18	LADOTD, In-Depth Inspection of Complex Structures, Statewide, LA. Team Leader for the contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016) and the Greater New Orleans Bridge (2016).



Firm | AECOM

Name: **Eric Nelson, PE**

Title: Complex/Movable Structures Load Rating and Analysis

Years of relevant experience with this employer | **25**

Years of relevant experience with other employer(s) | **9**

Degree(s) / Years / Specialization | MS / 1991 / Structural Engineering; BS / 1988 / Civil Engineering

Active Registration Number / State / Expiration Date | 59902/CA/12.31.2027
Additional active license: FL

Year Registered | PE CA: 1999 | Discipline | Civil Engineer

Contract Role(s) / Brief Description of Responsibilities | **Complex/Movable Structures Load Rating and Analysis.** *Eric brings extensive experience evaluating **complex bridge** behavior through three-dimensional **finite element modeling**, global structural analysis, service-load evaluation, and **AASHTOWare BrR** and **special permit truck-load analysis**. His experience encompasses cable-stayed, arch, steel plate-girder, segmental concrete box-girder, post-tensioned, and conventional bridge systems.*

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).
01/05 - 05/07	LADOTD, Florida Avenue Bridge, New Orleans, LA. Lead Design Engineer. Led preliminary and final design of the main-span unit for approximately 2 miles of elevated structure. Evaluated constant-depth steel plate girder and variable-depth cast-in-place segmental concrete box-girder alternatives for the five-span crossing, including a 470-foot navigational span. Developed the span arrangement and cross-section details for the steel alternate and completed final design of the segmental concrete alternate.
03/97 - 06/98	Caltrans, John F. McCarthy Memorial Bridge Seismic Retrofit, San Rafael, CA. Bridge Engineer. Developed a three-dimensional finite element model using shell elements for a new 100-foot precast concrete double-tee span. Used the model to evaluate standard AASHTO and special Caltrans permit truck loads , determine transverse post-tensioning requirements, and design diaphragm reinforcement.
01/03 - 3/04	NYCDOT, East 153rd Street Bridge, New York, NY. Independent Design Peer Reviewer. Reviewed final superstructure and cable-stay design , design criteria, constructability, and erection sequencing for a 512-foot cable-stayed bridge. Developed an independent three-dimensional finite element model to evaluate the superstructure and stay cables under service and erection loadings and redesigned steel cable anchorages in the pylons and edge girders.
09/17 - 10/18	DDOT, South Capitol Street Corridor Segments 1 and 2, Washington, DC. Lead Structures Engineer. Established structural design criteria and developed the three-dimensional global analysis model for the 1,445-foot Frederick Douglass Memorial Bridge, a complex three-arch structure with a 540-foot main span.
01/11 - 10/13	TxDOT, IH 35 Bridges over the Brazos River, Waco, TX. Engineer of Record and Lead Design Engineer. Led design of twin 620-foot extradosed cable-stayed bridges . Designed the steel superstructure and stay system and developed the three-dimensional global analysis models used to evaluate bridge behavior and force effects. Reviewed steel and cable-stay shop drawings and provided engineering support during construction.
01/17 - 8/17	ALDOT, I-20/59 Bridge over McFarland Boulevard, Tuscaloosa, AL. Lead Design Engineer. Led design of a 250-foot steel arch bridge with seven trapezoidal steel box girders and complex phased construction. Developed the three-dimensional global analysis model and designed the abutments and cable hangers.

		Firm AECOM	
Name: Gabriel Umholtz, PE, CBI Title: Load Rating Engineer		Years of relevant experience with this employer	3
		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		BS / 2019 / Civil Engineering	
Active Registration Number / State / Expiration Date		97363 / PA / 9.30.2027	
Year Registered		PE PA: 2025	Discipline Professional Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 5 - Overweight Permit Review and Task 3 Support. Gabe is a Certified Bridge Safety Inspector since 2021. Training: Bridge Safety Inspection Training Course, PennDOT, 2021. Bridge Safety Inspection Training Refresher Courses; 2023. NHI Bridge Safety Inspection Training Refresher Course 03/12/2026, NHI NSTM Inspection Course 07/25/2024, NHI Stream and Scour Course 03/26/2025.	
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 - 09/26	LADOTD, IDIQ for Bridge Load Rating Services, Statewide, LA. Load Rating Engineer for this present load rating analysis of 120 bridges throughout Louisiana, including superstructure and substructure analysis; provided recommendations for mitigation and repair of deficient structures.		
10/25 - Ongoing	LADOTD, In-Depth Inspection of Complex Structures, Statewide, LA. Bridge Inspection Team Leader for the contract to perform in-depth inspection on complex bridges throughout the state as part of the overall NBIS program. The assigned bridges have included hands-on inspection of all NSTM bridge elements and element level inspection of the bridge deck, superstructure and substructure components. For the movable bridges that were assigned, AECOM completed a full hands-on inspection which included an in-depth mechanical and electrical inspection in accordance with the AASHTO requirements.		
10/25-Ongoing	LADOTD, Movable Bridge Contract, Statewide, LA. Load Rating Engineer responsible for performing load ratings of several movable bridges throughout Louisiana. AECOM used AASHTOWare BrR software to analyze the bridges structures that the program is capable of modeling. AECOM also used hand calculations to rate portions of the bridges including the steel grid decks. The movable bridges types rated include double leaf bascule bridges and a swing span bridge. Performed an in-depth inspection of a movable bridge as Bridge Inspection Team Leader that included hands-on inspection of all NSTM bridge elements and element level inspection.		
11/22 - Ongoing	PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA. Bridge Inspection Team Leader for the 2-cycle contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.		

Gabe Umholtz, PE Task 5 - Overweight Permit Review - Cont.	
11/22 – Ongoing	Montana DOT, Load Rating Bridges Term Contracts 2018-2021, 2021-2024, 2025-2026. Bridge Load Rating Engineer responsible for completed load rating analyses . The goal of this project is to provide load rating services on an as-needed basis for all of the state's legal loads. The work includes the analysis and rating of nearly 1,000 bridges to date throughout the state . The bridges include steel truss-floorbeam- stringer systems with gusset plate analysis, glue laminated timber, solid-sawn timber, reinforced concrete, prestressed concrete, multi-girder steel, corrugated metal pipe, and steel girder-floorbeam-stringer systems. AECOM used AASHTOWare Bridge Rating (BrR) software to analyze all structures that the program is capable of modeling.
05/26 - Ongoing	NJ Turnpike Authority (NJTA), Bridge Inspection Program Technical Manager Services, Statewide, NJ. Load Rating Engineer performing LRFR load rating analysis on NJ Turnpike bridges for oversize and overweight permit vehicles . Load Rating Reviewer of load ratings prepared by bridge inspection and design consultants for quality control.
11/22 – 03/26	PennDOT District 10-0, Agreement E04971, Armstrong County Local NBIS Bridge Inspections. Bridge Inspection Team Leader for 70 NBIS bridges in PennDOT D10-0 that include special and routine inspections of bridges on the local system. All assignments included the development of Plans of Action to address priority maintenance deficiencies and/or load capacity restrictions. In addition, AECOM is required to update the inventory and appraisal data, provide recommendations for safety improvements, coordinate the mitigation of critical deficiencies, and oversee load rating analysis of bridges that have advanced deterioration.
11/22 – 03/26	PennDOT, District 2-0, Agreement E04604, Clearfield County Local NBIS Bridge Inspections. Bridge Inspection Team Leader for 70 NBIS bridge inspections with PennDOT D2-0 that include special and routine inspections of bridges on the local system. All assignments included the development of Plans of Action to address priority maintenance deficiencies and/or load capacity restrictions. In addition, AECOM is required to update the inventory and appraisal data, provide recommendations for safety improvements, coordinate the mitigation of critical deficiencies and oversee load rating analysis of bridges that have advanced deterioration.
11/22 – 04/24	Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ. Bridge Inspection Team Leader for the biennial inspection that included a close visual “hands-on” inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

		Firm AECOM	
Name: Gregory Trahan, PE, RSP₁ Title: Project Manager		Years of relevant experience with this employer	20
		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2005 / Civil Engineering	
Active Registration Number / State / Expiration Date		36041 / LA / 03.31.2027 Additional active license: ATSSA Traffic Control Supervisor Refresher–LA State Specific (2027); RSP1 No. 833 / 2028; DOTD Traffic Process and Report Parts 1, 2 and 3 / 2018	
Year Registered		PE LA: 2011	Discipline Civil Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 2 - Site Visits; Traffic Safety Plans. <i>Greg brings extensive roadway safety experience conducting site visits, crash analyses, and developing traffic safety plans for LADOTD and local agencies. He has evaluated existing conditions, identified crash trends, and developed practical safety countermeasures, including completing field reviews and Safety Improvement Plans for 282 curves statewide.</i>	
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).		
4/21–Ongoing	City of New Orleans, Milan Roadway Improvements, New Orleans, LA. Project Manager Greg assisted with the completion of the plans for the Milan project, which included the replacement of sidewalks, roadway milling, and pavement patching. Greg also assisted with Construction Administration during construction, including responding to Contractor RFIs and preparing change orders and invoices.		
12/23–12/25	City of New Orleans, Lafitte Greenway Connections, New Orleans, LA. Project Engineer Greg assisted with the development of plans for the improvements along the Lafitte Greenway. This included the field review of the Greenway and plan development of additional sidewalks, mill and overlay of roadway, replacement and relocation of pedestrian hybrid beacons, striping, and bollard placement to ensure pedestrian safety on the Greenway.		
08/14–07/17	LADOTD, Low Cost Systemic Roadway Improvements IDIQ, Statewide, LA. Project Engineer Greg conducted Safety Improvement Plans (SIP) for 282 systemic curves located throughout the State of Louisiana. Tasks associated with this project included site visits to the curves, preparation of safety countermeasures for each curve, cost estimates for the plan sets, and participation in pre-construction meetings with each DOTD district. Each site visit included a ball bank test, photographs, and documentation of existing conditions at each curve. Plan preparation included deriving safety countermeasures at each curve location, preparing a letter-size plan set showing the countermeasures, incorporating Crash Modification Factors (CMFs) within the plan sheets, and preparing cost estimates for the safety countermeasures. After completion of the letter-size plan sets, meetings were held with each district to discuss the recommended countermeasures.		
09/20–Ongoing	City of Baton Rouge / Parish of East Baton Rouge, College Dr Corridor Enhancement (Perkins – I-10), Baton Rouge, LA. Project Engineer Greg assisted with the Design Study, Traffic Study, and Preliminary Plans for roadway improvements along College Drive between Perkins Road and Bawell Street, including the interchange with I-10. Preliminary alternatives were developed and documented using DOTD Stage 0 Project Scope and Environmental Checklists to support applications for state and federal funding beyond the parish MOVEBR bond allocation.		

Gregory Trahan, PE, RSP, Task 2 - Site Visits; Traffic Safety Plans - Cont.	
07/16–08/17	LADOTD, S.P. No. H.012369.1 Safety Studies Retainer Contract – US 190 Barrier Feasibility Study, St. Tammany Parish, LA. Project Engineer Greg served as Project Engineer for a study evaluating a median barrier within the limits of an existing structure on LA 22. Tasks included existing data collection, geometric layout analysis, safety analysis, field review, bridge rating review, and structural analysis. A comprehensive report was prepared documenting existing conditions, preliminary plans for a preferred barrier alternative, and a safety analysis of the proposed barrier system.
07/15–06/17	LADOTD, S.P. No. H.011935.5 Safety Studies Retainer Contract – Roadside Safety Assessment (RSA), Statewide, LA. Project Engineer Greg was responsible for preparing the Roadside Safety Assessment (RSA) Field Report used to conduct meetings with LADOTD officials, local officials, and law enforcement. Field reports included a map of the general area and a review of Crash1 data, including graphs and charts illustrating crash patterns and severity types. These findings were discussed at the RSA meeting prior to conducting field reviews of existing conditions. Upon completion of the RSA meeting, Greg summarized all findings and discussions into a report submitted to LADOTD, including recommended countermeasures prioritized based on safety effectiveness and financial considerations.
06/13–Ongoing	City-Parish of East Baton Rouge, MOVEBR Jones Creek Road Extension Segments 1A and 1B, Baton Rouge, LA. Project Manager Greg manages tasks related to Traffic Engineering, Environmental Review, and Green Infrastructure/Landscaping for a new roadway project extending a suburban arterial from its current terminus at Tiger Bend Road to Airline Highway. Greg is responsible for the development of the traffic analysis and evaluation of alternatives, including signalized intersections, roundabouts, and alternative intersections. This project also includes following LADOTD's Traffic Engineering Process and Report and coordinating analysis work with the City-Parish and LADOTD. Greg assisted in the development of Appendix C – Existing Safety Analysis, which utilizes the Crash1 and Crash3 databases to conduct spot-specific and segment crash analysis using the CATScan tool.
08/12–07/14	LADOTD, S.P. No. H.009998.1 Stage 0 Feasibility Study – Johnston Street (US 167), Lafayette Parish, LA. Project Engineer Greg supported the US 167 (Johnston Street) Corridor Study, which collected and analyzed data to develop immediate, short-term, and long-term recommendations in accordance with LADOTD's Stage 0: Manual of Standard Practice. Greg assisted with identifying crash trends, developing collision diagrams, evaluating the effectiveness of countermeasures in alternative concepts, and compiling environmental conditions along the corridor into a GIS database.
06/13–10/14	LADOTD, S.P. No. H.010570.1 Stage 0 Feasibility Study – Williams Boulevard (LA 49), Jefferson Parish, LA. Project Engineer Greg conducted crash analysis and environmental inventory for the LA 49 feasibility study. The study evaluated a 2.5-mile segment of a heavily traveled five-lane urban roadway with moderate pedestrian activity, three major intersections, and an interchange with I-10. Tasks included collecting and analyzing data to identify crash trends and determine overrepresented crash types, developing collision diagrams, and applying Crash Modification Factors to evaluate safety countermeasures proposed for each alternative.
09/24–05/25	Regional Planning Commission, Lower St. Bernard / Louisiana Terminal Roadway Network and Resilience Study, St. Bernard Parish, LA. Project Engineer Greg conducted crash analysis and environmental inventory associated with the Stage 0 Feasibility Study. Tasks included analyzing crash conditions and patterns within the study area, including manner of collision, time of day, fatalities, and involvement of vulnerable users such as pedestrians and bicyclists. This information was used to document crash trends and evaluate potential safety treatments for alternative concepts.
11/11–01/13	LADOTD, S.P. No. H.009997.1 Stage 0 Feasibility Study – LA 935, Ascension Parish, LA. Project Engineer Greg assisted with preparation of a Stage 0 Feasibility Study based on the results of a Roadway Safety Assessment conducted by the AECOM team. The study area included approximately four miles of LA 935 from LA 431 to LA 22 in Ascension Parish with a known history of crashes. Tasks included development of conceptual alternatives for roadway realignment, including typical sections, design criteria, conceptual plans, and cost estimates.

	Firm AECOM	
Name: James Martinez, PE Title: Load Rating Engineer	Years of relevant experience with this employer	4
	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	MS / 2022 / Structural Engineering; BS / 2021 / Civil Engineering	
Active Registration Number / State / Expiration Date	31214 / NM / 31.12.2026	
Year Registered	PE NM: 2025	Discipline Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	Task 3 - Analysis & Load Rating. James <i>is an experienced bridge load rating engineer with expertise evaluating complex existing structures using AASHTOWare BrR and applying LRFR and ASR methodologies in accordance with AASHTO and state DOT requirements. His experience includes load rating and independent checking of more than 45 structures for ODOT, KYTC, and Kansas City Southern Railway, encompassing steel plate and rolled girders, box girders, timber beams, timber substructures, and other bridge components. James supported the load rating of ODOT's 6,580-foot Main Avenue Bridge in downtown Cleveland and has completed multi-structure load rating programs involving both new and existing bridges.</i>	
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).	
08/25 - Ongoing	Ohio Department of Transportation, Load Rating of Main Avenue Bridge (CUY-2-1441), Downtown Cleveland, OH. Bridge Load Rating Engineer. The main avenue bridge is 6,580 feet long originally built in 1938 and received a major rehabilitation in 1990.	
04/25 - 01/26	Ohio Department of Transportation, Greene, Hamilton, and Stark County Load Ratings, Various Locations, OH. Bridge Load Rating Engineer and Bridge Load Rating Checker. Load rated and checked 33 existing structures using AASHTOWare BrR software in accordance with the Ohio DOT Bridge Design Manual and AASHTO specifications. The structures included box girders, steel rolled girders, and timber beam superstructures which were rated using LRFR or ASR methodologies.	
03/23 - 12/23	Kentucky Transportation Cabinet (KYTC), Load Rating on Emergency Flood Bridges, Various Locations, KY. Bridge Load Rating Engineer. Load rated 15 new structures using AASHTOWare BrR software in accordance with the Kentucky Bridge Inspection Procedures Manual and AASHTO specifications. The structures included box girders, steel rolled girders, and steel plate girders which were rated using LRFR methodologies.	
03/23 - 07/23	Kansas City Southern Railway (KCS), Timber Bridge Rating, Sparta Road Bridge over KCS Gibsland, LA. Bridge Load Rating Engineer. Load rated 1 existing structure using AASHTOWare BrR software in accordance with the Louisiana Department of Transportation Bridge Design and Evaluation Manual and AASHTO specifications. The structure included a timber and steel girder superstructure that is founded on timber piles and timber bent caps. Timber components were rated using ASR methodology while the steel girders were rated using LRFR.	



Firm | AECOM

Name: James Rhoad-Drogalis, PE

Title: Load Rating Engineer

Years of relevant experience with this employer

14

Years of relevant experience with other employer(s)

0

Degree(s) / Years / Specialization	MS / 2012 / Civil Engineering; BS / 2012 / Architectural Engineering		
Active Registration Number / State / Expiration Date			
Year Registered		Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	Task 3 - Analysis & Load Rating. <i>James brings 14 years of bridge design, load rating and inspection experience. He has served as engineer of record for 250+ bridge load ratings in the past five years, including 100+ in the past year, using AASHTOWare BrR and supplemental calculations for superstructures and substructures. He is also an AECOM Certified Project Manager and completed NHI Course 130056, Safety Inspection of In-Service Bridges, in 2021.</i>		

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	Mississippi Office of State Aid Road Construction, Timber & Complex Bridge Inspection and Load Rating, Jackson, MS. Load Rating Engineer. Checks load rating analyses for timber and complex county-owned bridges using plans, field measurements and available documentation. Superstructures are rated in AASHTOWare BrR in accordance with OSARC guidance, including timber beams, nail-laminated slabs and concrete channel beams. When inspection findings require additional analysis, evaluates timber piles and pile caps using in-house calculation spreadsheets.
05/20-12/25	NDDOT, Bridge Inspections and Ratings, Statewide, ND. Load Rating Engineer / Engineer of Record. Checked load rating analyses and served as engineer of record for 200+ county-owned structures within a program covering 750+ in-service bridges. Compiled data from plans, shop drawings and field measurements; performed superstructure ratings primarily in AASHTOWare BrR under NDDOT guidance and evaluated timber substructures using in-house spreadsheets. Structure types included timber beams and nail-laminated slabs, rolled steel beams, prestressed concrete shapes, slab bridges and trusses.
05/22-09/22	NDDOT, State-Owned Bridge Load Rating, ND. Load Rating Engineer / Engineer of Record. Checked load rating analyses and served as engineer of record for approximately 120 in-service reinforced concrete box culverts. Gathered data from plans and shop drawings and performed culvert ratings primarily using AASHTOWare BrR in accordance with NDDOT guidance.
03/21	City of Waterloo, 2019 Biennial Bridge Review, Waterloo, IA. Load Rating Engineer. Load rated the multi-span steel-girder Ranchero Road Bridge over Black Hawk Creek using AASHTOWare BrR and the Iowa DOT Bridge Rating Manual, including Special Haul Vehicles required for FHWA compliance.
03/21	General Engineering Services, Denver, IA. Load Rating Engineer. Load rated the multi-span concrete-slab State Street Bridge over Quarter Section Run Creek using AASHTOWare BrR and the Iowa DOT Bridge Rating Manual, including Special Haul Vehicles required for FHWA compliance. Client name should be confirmed because the source resumes list conflicting City/County information.
11/17-01/18	Ohio Turnpike and Infrastructure Commission, Bridge Load Ratings, OH. Reviewing Consultant. Reviewed consultant bridge load ratings using AASHTOWare BrR to update the Turnpike inventory for current live-load configurations, including FHWA emergency vehicles and develop new ratings.

	Firm AECOM
	Name: Jared Fattoross, PE, CBI Title: Load Rating Engineer Years of relevant experience with this employer 14 Years of relevant experience with other employer(s) 2
Degree(s) / Years / Specialization	BS / 2010 / Civil Engineering; MS / 2017 / Civil Engineering
Active Registration Number / State / Expiration Date	47927 / LA / 09.30.2027 Additional active license: CO, MS, OH
Year Registered	PE LA: 2023 Discipline Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	Task 3 - Analysis & Load Rating. <i>Jared offers international experience as a structural engineer, providing technical and professional services to a diverse portfolio of public agencies. Since entering the consulting market in 2010, he has contributed to projects that include infrastructure rehabilitation of major US and overseas structures, emergency repairs, concept development, defense / hardening of critical elements, advanced 3D modeling for seismic and blast analysis, complex bridge / tunnel preventative maintenance, hands-on field inspection, NBI/SNBI load rating, construction support services, and specification authoring for materials. Currently acting as project or asset management engineer on multidisciplinary teams, Jared strives to produce the highest quality deliverables, on schedule and within budget, to civic agencies of all sizes seeking to advance, maintain or rehabilitate their most critical infrastructure.</i>
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).
02/23-12/23	TxDOT, METRO University Corridor, Houston Bus Rapid Transit, TX. Load rater using FHWA-certified AASHTO BrR software to rate complex steel and concrete superstructures, and routine bridge superstructures for Bus Rapid Transit (BRT) bridge widening program, using LFD and LRFR method of analysis. Development of fatigue rating methodology for finite life steel splice and weld details.
01/24 - Ongoing	Colorado DOT Bridge and Tunnel Enterprise (CDOT-BTE), CO. Load rater serving as a general consultant performing review and recommendations of asset management treatments that align with established industry best practices, in collaboration with CDOT-BTE for continuous improvement of the Department's existing Structure Asset Management (SAM) plans. Deliverables entail a 180-bridge inventory report / list of recommendations that can be used to assist program managers, regional engineering staff, and maintenance sections in determining bundled AM or Bridge Preventative Maintenance (BPM) projects for the inventory. Innovative techniques to address present day repair and maintenance needs aim to improve the asset's NBI/SNBI condition state to meet 75-to-100-year design life goals.
01/20 - Ongoing	Mississippi & North Dakota DOT, Statewide Load Rating Services, ND/MS. Load rater using FHWA-certified AASHTO BrR software to rate complex truss superstructures, and routine bridge super/substructures for the National Bridge Inventory using LFD/ASD method of load rating analysis . Responsibilities also include development of MathCAD supplemental calculations for each bridge rated. Development of gusset plate rating methodology without as-built drawings was included in the scope of work. Field inspection services also provided as needed.

Jared Fattoross, PE, CTI Task 3 - Analysis & Load Rating - Cont.	
01/24 - Ongoing	Colorado DOT Off System Bridge Load Rating, CO. Technical task lead, load rating developer, reviewer and EOR. Responsibilities included review of rating analysis for Prestressed concrete Double Tee beam and box beams. Reviewed AASHTOWare BrR load rating, LL distribution factor calculation and input data from as built plans and SIA report. Organized schedule, deliverables, client interface and staffing.
06/23 - 12/23	Kansas City Southern (KCS) Railway, Timber Bridge Rating, Sparta Road Bridge over KCS, Gibsland, LA. Load rater performing QA/QC and technical lead verification on the load rating model calculations for (1) existing structure using AASHTOWare BrR software in accordance with the Louisiana Department of Transportation Bridge Design and Evaluation Manual and AASHTO specifications. The structure included a timber girder and steel girder superstructure that is founded on timber piles and timber bent caps. All timber components were rated using ASR methodology while the steel girders were rated using LRFR methodology. This structure was rated in its current condition and its repaired condition.
01/22 -12/25	Complex Load Rating, Inspection and Rehabilitation of Dapped End Multi-Cell RC Box Girders in Rankin and Hinds Counties, MS. Jared served as deputy project manager and technical task lead on the contract, as well as the EOR of load ratings . MDOT hired AECOM to provide Phase A bridge conceptual plans for rehabilitation and replacement options for I-20 EB to I-55 NB. The bridge is a dapped end box girder bridge, and the rehabilitation options maintained one lane of travel during construction. A field inspection and load rating were also performed, including accessing the interior of the box girders and providing an in-depth inspection of the dapped end girder details. The load rating utilized CSIBridge and post processing hand calculations.
01/20-12/21	City of Colorado Springs, Bridge Rehabilitation of Concrete Deck and Expansion Joints, CO. Lead structural engineer supporting engineer of record on the development of deck repair and joint replacement contract drawings, estimate, and specifications, with multi-disciplinary coordination responsibilities.
01/22-12/22	Kentucky Transportation Cabinet, Load Rating on Emergency Flood Bridges, KY. Load Rater. The scope of the project includes the Load Rating of bridges replaced in place of flood damaged structures. Bridges are rated using AASHTO BrR in accordance with KYTC load rating guidance.
09/19-12/19	VicRoads of Victoria, Load Rating Assessment of Highway and Buried Structures, Australia. Load rater, lead field inspector, and QC engineer applying AS-2100 to confirm whether the existing structures have adequate capacity to accommodate permit vehicles proposed to transport the oversize bridge beams for the West Gate Tunnel Project, in coordination with principal and senior directors. Responsibilities also include oversight of QC protocols for each bridge rated, performing field inspection, coring, and ground penetrating radar (GPR) testing of superstructure members including prestressed girders, concrete bridge deck, and railings/appurtenances



Firm | AECOM

Name: **Josh Guitreau, EI**

Title: Load Rater

Years of relevant experience with this employer | **4**

Years of relevant experience with other employer(s) | **0**

Degree(s) / Years / Specialization | BS / 2022 / Civil Engineering

Active Registration Number / State / Expiration Date | EI.0035162 / LA / 09/30/2026

Year Registered | EI LA: 2022 | Discipline | Engineer-in-Training

Contract Role(s) / Brief Description of Responsibilities | **Tasks 1, 2 and 3 Support.** Josh has 4 years of experience in structural and bridge engineering across multiple transportation projects for state DOTs including LADOTD, TxDOT, and SDDOT, as well as bridge load rating evaluations, field assessments, and site visits for LADOTD, with one year focused on analyzing existing structures to assess capacity and inform maintenance or load decisions. Josh will research and evaluate available plans and bridge records, conduct field visits to confirm dimensions and document current conditions, and help reconcile discrepancies between existing documentation and observed conditions. Josh will use the verified information to develop analytical models, **complete load rating calculations**, and prepare clear technical documentation consistent with LADOTD and **AASHTO criteria**.

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).
05/25-Ongoing	LADOTD, Movable Bridge Inspection, Load Rating, and Rehab Design, Multiple Locations, LA. Engineer in Training (EIT) supporting movable bridge inspection and load rating for five complex movable bridges. Assisted in the development of inspection safety plans and coordination of inspection logistics involving access equipment, traffic control, and marine safety services. Performed structural inspection of Bayou Dularge Swing Bridge in Houma, LA, and conducted site visit to collect measurements and condition data to support evaluation and development of emergency repair measures for the Ted Hickey bridge.
10/23-08/25	LADOTD Contract No 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA. EIT who performed substructure analysis for a series of multi-span concrete slab bridges as part of a statewide load rating effort, assessing existing conditions and structural capacity to deliver recommendations supporting effective maintenance and rehabilitation planning. Experienced with the LADOTD retrieval and review process for acquiring plan documents and related project records to support structural assessments and project development.
02/25-04/25	LADOTD, LA-641 Bridge over I-10, Gramercy, LA. EIT for the structural assessment of impact-damaged bridge to evaluate girder condition and determine repair needs. Developed girder repair quantity calculations to support design of remedial measures, including material selection and repair extents. Contributed to the production of repair plans and documentation to fit project constraints and field-access limitations.
05/23-Ongoing	LADOTD, LA-561 Boeuf River Bridge Replacement Project, Hebert, LA. EIT responsible for preliminary bridge layout and design, including pile-supported foundation and reinforced deck system. Conducted site visit and met with LADOTD to evaluate existing bridge conditions and inform design approach. Contributed to plan development while working closely with roadway and geotechnical teams to ensure design compatibility and address project-specific constraints.
08/23-09/24	LADOTD, LA-10 Bayou Carron Bridge Project, Washington Parish, LA. EIT for the geotechnical analysis efforts, including determining bridge service loads used in foundation design. Assisted with plan development and coordination to maintain consistency between structural and geotechnical design elements.

		Firm AECOM	
Name: Kendra VanGorp, EI Title: LRFR Load Rater		Years of relevant experience with this employer	13
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS/2007/Civil Engineering; MS/2009/Civil Engineering	
Active Registration Number / State / Expiration Date		64207 / CO / N/A	
Year Registered		El CO: 2007	Discipline Engineer-in-Training
Contract Role(s) / Brief Description of Responsibilities		Task 3 - Analysis & Load Rating. Kendra is a bridge engineer with experience in multidisciplinary transportation projects including design of numerous highway structures, concrete box culverts, and retaining walls; load rating hundreds of existing and proposed bridges; and bridge widening, rehabilitation, preventative maintenance, and inspection. Design and load rating analysis include various structure types including precast prestressed I-girders, box girders, and steel plate girders over waterways, roadways, and railroads for state and local agencies.	

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).
03/17-06/23	City and County of Denver, Park Avenue Viaduct Rehabilitation, CO. Bridge engineer for the \$14 million rehabilitation of an elevated viaduct structure consisting of five steel plate girder viaducts that frame into a central post-tensioned concrete waffle slab located over the BNSF and UPRR railroads and RTD tracks. The project includes modular expansion joint and bearing replacement; bridge deck repairs; replacement of concrete curb ramps and sidewalk on the waffle slab; concrete repair under the waffle slab; complex replacement of four overhead mast arm signals; painting steel girders; and resurfacing the bridge.
09/21-06/23	City and County of Denver, Havana over Sand Creek Preventative Maintenance, Denver, CO. Bridge engineer for the sidewalk extension and preventative maintenance a 4-span, post-tensioned concrete bridge over Sand Creek. As part of the maintenance efforts, infrared thermographic inspection was performed to locate delamination areas in the concrete deck for repair. Additional repairs to extend the bridge design life included expansion joint, bridge rail, pedestrian rail, end rail transitions, and asphalt replacement; epoxy injection and sealing of cracks; sidewalk resurfacing; and superstructure and substructure structural concrete coating.
03/20-01/21	The City of Colorado Springs, Colorado Avenue Bridge Rehabilitation, Colorado Springs, CO. Bridge engineer responsible for load rating and quality checking the design and rehabilitation plans for two 95'-0" wide, 6-span precast concrete I-girder bridges over Sierra Madre Street and UPRR, and Monument Creek. The bridge decks were evaluated using ground penetrating radar survey to determine deck deterioration and depth of cover to reinforcing, as well as infrared thermographic survey to locate deck and overlay delamination. These bridges underwent a life cycle cost analysis comparing two deck repair and overlay material alternatives, followed by recommendations for repair of displaced bearing devices; replacement of aging expansion joints; and repair of localized deck deterioration.
01/19-12/19	ODOT, Bridge Load Ratings, Various Locations, OH. Bridge load rating engineer and quality checker for 30 bridges in Ohio using AASHTOWare BrR software. The structures typically included rolled steel beams and welded steel plate girders rated in accordance with Ohio DOT policies and AASHTO specifications. The rating team evaluated multiple complex structures to determine innovative methods to rate in BrR rather than using more costly methods using finite element analysis software.

Kendra VanGorp, EI Task 3 - Analysis & Load Rating - Cont.	
05/18-06/19	CDOT, I-76 over Clear Creek Fatigue Study (CDOT NPS Contract), Adams County, CO. Field inspection engineer for a fatigue study for EB and WB I-76. These bridges are highly skewed, multi-span, steel plate girder bridges that collectively have over 60 known distortion induced fatigue cracks due to a gap between the cross-frame stiffener and the bottom flange. The project included detailed inspections; instrumentation with strain gages and displacement transducers; full scale load testing; data collection and analysis; three-dimensional finite element analysis (FEA); and developing conceptual fatigue retrofit details. Field testing was used to calibrate the FEA to have an accurate tool to evaluate fatigue retrofit strategies. Adjustments to the model such as member properties and boundary conditions, allow the model to be refined to replicate the load test responses.
06/16-06/18 11/24-01/25	CDOT, Bridge Load Ratings (CDOT NPS Contract), Various Locations, CO. Bridge load rating engineer and quality checker for over 150 structures using AASHTOWare BrR software in accordance with the CDOT Bridge Load Rating Manual and AASHTO specifications. Structure types include concrete slab and girder, continuous concrete slab and girder, continuous steel girder bridges, and reinforced concrete t-beam structures. The project included working directly with the CDOT to deliver rating packages under tight schedule and budget constraints.
05/12-09/15	UDOT, UDOT Bridge Load Rating Program, Various Locations, UT. Rating engineer of over 150 structures using AASHTOWare BrR Software in accordance with the 2014 UDOT Bridge Management Manual. The structures included reinforced concrete box culverts, concrete frames, prestressed concrete bridges, and analysis of bridges without as-built plans.

	Firm AECOM			
Name: Kevin Hagen, PE Title: Load Rating/Analysis Team Lead	Years of relevant experience with this employer		20	
	Years of relevant experience with other employer(s)		6	
Degree(s) / Years / Specialization	BS / 2000 / Civil Engineering			
Active Registration Number / State / Expiration Date	43828 / MN / 6.30.2028 Additional Active License: MS, WI, IA, ND, KY			
Year Registered	PE MN: 2004	Discipline	Civil Engineer	
Contract Role(s) / Brief Description of Responsibilities	Load Rating/Analysis Team Lead. Kevin is a project manager and senior engineer with a diverse background in design and load rating for a variety of bridge projects. Kevin is experienced with a variety of bridge types including concrete slab-spans, prestressed concrete girders, concrete channel beams, steel girders, and timber slabs and girders . Kevin routinely manages teams of engineers at AECOM to deliver bridge design and load rating projects or tasks.			
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).			
4/22-12/22	NDDOT, Bridge Load Ratings for State Owned Bridges, West Region. Project manager for the load rating of 131 bridges in Western North Dakota. All structures for this assignment were concrete box culverts. Many structures were rated using AASHTOWare BrR. In some cases, structures were judgment rated due to the absence of plan details or unique conditions. A variety of reinforcing conditions, fill heights and conditions were encountered which required client coordination for agency level decisions on general procedures. Responsible for managing a team of rating engineers and delivering ratings on schedule; verification reviews of ratings to confirm rating methods, general accuracy of results and conformance to NDDOT Load Rating Manual and submittal requirements, and oversight & compliance with NDDOT and AECOM QA/QC procedures.			
04/20-12/22	NDDOT, Local Public Agency Bridge Inspection and Load Rating, Northwest Region. Task manager for the load rating of 619 local agency bridges in northwest North Dakota. Bridge types include trusses, steel girder, prestressed concrete girder, reinforced concrete slabs and T-beams, timber, concrete box culverts and corrugated metal pipe culverts. Many structures were rated using AASHTOWare BrR. Metal pipe culverts were rated using spreadsheet calculations. Substructures and bridge pins were also rated, as needed, using spreadsheet calculations. Responsible for managing a team of rating engineers and delivering ratings on schedule; verification reviews of ratings to confirm rating methods, general accuracy of results and conformance to NDDOT Load Rating Manual and submittal requirements; and oversight & compliance with NDDOT and AECOM QC/QA procedures.			
8/21-Ongoing	MDOT – OSARC, Statewide Timber and Complex Bridge Inspections and Ratings. Task manager for load rating/load rating updates of more than 760 local agency bridges in Mississippi. Structure types included precast concrete channel beams, steel girders, steel thru-girders with floor beams and stringers, concrete box culverts and railroad car bridges. Superstructures were rated using AASHTOWare BrR. Pile bent substructures were rated, as needed, based on section loss. Responsible for coordination and oversight of the bridge ratings including providing guidance and direction on the rating of deteriorated bridge elements and quality control review of the final rating packages.			

Kevin Hagen, PE Load Rating/Analysis Team Lead - Cont.	
03/21-12/21	City of Waterloo, IA, 2021 Biennial Bridge Review. Ratings Task Manager for Specialized Hauling Vehicle rating updates to 51 bridges to maintain compliance with FHWA requirements. Complete rating calculations were also performed using AASHTOWare BrR for six additional bridges. Structure types include steel girder bridges, concrete slabs, prestressed concrete girders and box culverts. Responsibilities included coordination of rating activities, quality control reviews of final rating packages, and submittal of ratings to IADOT via SIIMS.
07/20-08/20	MDOT – OSARC, Non-Complex Load Ratings Task 4. Task Manager for the load rating of 21 local agency bridges in Mississippi. Structure types included precast concrete channel beams, steel girders, concrete box culverts and a cast-in-place concrete T-beam. Superstructures were rated using AASHTOWare BrR 6.8.4. Pile bent substructures were rated, as needed, based on section loss. Responsible for coordination and oversight of the bridge ratings including providing guidance and direction on the rating of deteriorated bridge elements and quality control review of the final rating packages.
09/20-03/21	MDOT – OSARC, Timber Bridge Inspection and Load Rating. Task Manager for the load rating of 99 local agency bridges in Mississippi. Superstructure types include timber and concrete; however, all the bridges are supported by timber piling. Superstructures are being rated using AASHTOWare BrR 6.8.4. Pile bent substructures are being rated, as needed, based on section loss. Responsible for coordination and oversight of the bridge ratings including providing guidance and direction on the rating of deteriorated bridge elements and quality control review of the final rating packages.
08/20-11/20	MDOT – OSARC, Complex Bridge Inspection and Load Rating. Task Manager for the load rating of approximately 30 local agency bridges in Mississippi. Superstructure types include steel railcar, steel military, steel I-girder of varying levels of deterioration, prestressed concrete, reinforced concrete channel beams, and timber beams. Superstructures are being rated using AASHTOWare BrR 6.8.4 and in some cases judgment ratings. Pile bent substructures are being rated, as needed, based on section loss. Responsible for coordination and oversight of the bridge ratings including providing guidance and direction on the rating of deteriorated bridge elements and quality control review of the final rating packages.
06/20-8/20	MDOT – OSARC, Non-Complex Load Ratings Task 3. Rating Engineer for four cast-in-place concrete culverts. These structures were rated in accordance with MDOT's Box Culvert Standards using AASHTOWare BrR 6.8.4. Responsible for completing culvert ratings and assembling rating submittals in accordance with MDOT OSARC requirements
05/14-Ongoing	Wisconsin Valley Improvement Company. Project Manager and Senior Bridge Engineer for routine, element level bridge inspections in accordance with Wisconsin Department of Transportation (WisDOT) and National Bridge Inspection Standards (NBIS) Regulations for nine client bridges. Responsible for coordinating bridge inspections and reviewing inspection reports. In addition, oversaw and reviewed initial load ratings for each of the bridges as well as load rating updates as bridge conditions changed.

		Firm AECOM	
Name: Maegan Vause, PE Title: Load Rating Engineer		Years of relevant experience with this employer	13
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 2014 / Structural Engineering; BS / 2011 / Civil Engineering	
Active Registration Number / State / Expiration Date		53421 / CO / 03.10.2027	
Year Registered		PE CO: 2017	Discipline Structures
Contract Role(s) / Brief Description of Responsibilities		Task 3 - Analysis & Load Rating. <i>Maegan is a structural engineer with design and management experience for transportation projects. Her design experience includes prestressed concrete highway bridges, LRT light rail bridges, retaining walls, pedestrian structures, concrete box culvert design, and animal crossings. Maegan has worked on several project for CDOT including R4 Timber Bridge Holyoke Bridge Replacements, HR1 Pre-scoping reports, I-25 127-135 MAMSIP & I-25 Bridges over S Academy. Her local agency experience includes Mail Creek Pedestrian Bridge and Monaco over Cherry Creek.</i>	
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).		
07/22-09/24	CDOT R4, Holyoke Bridge Replacement, Phillips County, CO. Deputy Project Manager and Bridge CAD Manager. Blended team project with multidisciplinary design services for the replacement of 5 timber bridges in eastern Colorado. Responsibilities include structures CAD management, client, interdiscipline and subconsultant coordination, schedule tracking and submittals.		
12/21-04/24	CDOT R4, Eastern Plains Timber Bridge Replacement, Weld County, CO. Deputy Project Manager and Bridge CAD Manager. Blended team project with multidisciplinary design services for the replacement of ten timber bridges in eastern Colorado. Responsibilities include structures CAD management, client, interdiscipline and subconsultant coordination, schedule tracking and ubmittals.		
02/23-Ongoing	CDOT R1, Region 1 Bridge Pre-scoping Project, Denver County, CO. Project Manager and structures lead. Project is tasked with completing approximately 40 pre-scoping reports for region one. As part of this effort Maegan and the AECOM team are developing the standards to a more streamlined and efficient approach to the typical CDOT pre-scoping report. Responsibilities include client, interdisciplinary and subconsultant coordination, developing report approach and templates, schedule tracking, and submittals.		
03/18-04/21	CDOT R2, I-25 MP 127-135, Colorado Springs, CO. Lead Structural Engineer for the widening of 8 miles of the I-25 corridor in Colorado Springs, including the widening of two pairs of bridges, I-25 Mainline over Dry Wash and I-25 Mainline over Clover Ditch. Dry Wash bridge is a steel girder bridge founded on shallow foundations and widened in kind. Clover Ditch is a CIP concrete tee girder bridge widened with precast prestressed boxes. Maegan lead the structures seven person design team in their efforts and performed the full design check of the Clover Ditch design.		

Maegan Vause, PE Task 3 - Analysis & Load Rating - Cont.	
03/18-04/21	CDOT, I-25 South Academy Bridges, Colorado Springs, CO. Structural engineer. Project includes the replacement of the I-25 Northbound and southbound bridges to accommodate future interchange improvements. Design includes a phased bridge construction to minimize impacts to traffic on I-25. Structural design engineer responsible for the layout and full bridge design including prestressed CBT girders supported on deep foundations.
03/21-05/23	City of Fort Collins, Mail Creek Pedestrian Bridge, Fort Collins, CO. Project Manager and structural designer. Lead structural design engineer responsible for design of two pedestrian bridges; two span bridge over UPRR and one short span slab structure over a drainage ditch. Design includes, slab girders, CIP abutments and pier design, h-piles and drilled shafts. Maegan was also responsible for structures CAD management, client, interdisciplinary and subconsultant coordination, schedule tracking and submittals.
12/21-02/24	City and County of Denver, Monaco over Cherry Creek Bridge Replacement, Denver, CO. Deputy Project Manager and structures task lead for replacement highway bridge over Cherry Creek in downtown Denver. Three span bridge founded on deep pile foundations. Design includes, box girders, abutments and pier design, h-piles and drilled shafts and complicated bridge phasing considerations.
04/18-08/18	CDOT R4, SH 59 Over I-70 Emergency Replacement, Seibert, CO. Structural Engineer. This project included the emergency replacement of a four-span bridge taken out of service by a fatal truck collision. AECOM lead multi-disciplinary blended team with CDOT. The project utilized a CM/GC Alternate Delivery method and was able to re-open the structure to traffic in eight weeks. Maegan was responsible for the abutment sheet pile wall design, structural drafting coordination and construction support.
12/20-08/21	CDOT R4, US 34 Interchanges at 35th and 47th Avenues, Greeley, CO. Structural Engineer for this multidisciplinary effort in the 30% design of two interchanges. Project goal is to replace two at grade intersections with interchanges to improve traffic and safety conditions. Maegan was the structural engineer for the 30% design of US 34 over 47th Avenue. Design included prestressed concrete CBT girders founded on steel h-piles and the associated wrap around MSE walls.



Firm	AECOM		
Name: Myles Martin, PE Title: Load Rating Engineer	Years of relevant experience with this employer		4
	Years of relevant experience with other employer(s)		0
Degree(s) / Years / Specialization	BS / 2022 / Civil Engineering		
Active Registration Number / State / Expiration Date	PE.0051714 / LA / 03.31.2027		
Year Registered	PE LA: 2026	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	Tasks 1, 2 and 3 Support. Myles will support plan and record-document retrieval and review, participate in site visits to verify bridge geometry and existing conditions, and document information needed to resolve gaps in available records. Myles will also develop structural models, perform load rating analyses, and prepare supporting calculations and documentation in accordance with LADOTD and AASHTO requirements.		

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).
07/23-Ongoing	LADOTD Contract No 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA. Engineer in Training (EIT) tasked with performing load rating on the substructure components of multiple bridges across the state using BrR software and an AECOM proprietary tool.
09/23-Ongoing	LADOTD, LA-10 Bayou Carron Bridge Project, No H011993, Washington Parish, LA. EIT responsible for taking project to 100% final design.
08/23-Ongoing	TxDOT, I-820 Southeast Connector Project, Dallas, TX. EIT providing construction support activities and quality support/quality assurance tasks for multiple bridge structures throughout project.
07/23-Ongoing	TxDOT, I-635 LBJ East Design Build Project, Dallas, TX. EIT performing construction support activities and quality support/quality assurance tasks for multiple bridge structures throughout project.
06/23 -08/23	E ST Bernard Parish, Louisiana International Terminal, New Orleans, LA. EIT responsible for the development of 30% preliminary plans for the St. Bernard and Judge Perez bridge general plan and layout sheets.
04/23 - 07/23	El Paso County, South Academy Blvd over BNSF Rehabilitation, Colorado Springs, CO, Engineering support for the 90% submittal for South Academy Boulevard project in drawings and detailing of the soundwall standard details and calculations involving the soundwall data summary.
11/22 - 12/22	Kansas City Southern Railway, North/South Jefferson Retaining Wall, Pittsburg, KS. EIT responsible for the 90% submittal of the preliminary plans of the North and South Jefferson retaining walls. Performed calculations of structural quantities, conceptual cost estimates, generating profile in InRoads and providing the CAD drawings of the retaining walls plan & elevation sheets, typical sections and general notes sheets.
09/22-12/22	Pennington County, West Rivers, Rapid City, SD. EIT responsible for the 60% and 90% submittal of the north and south approach slab details which were part of the overall box culvert road structure plans. Performed calculations of structural quantities, conceptual cost estimates and providing the CAD drawings of the north and south approach plan sheets, approach section details and handrail section details

	Firm AECOM	
	Name: Seth McVey, PE, CBI, PCI	
	Title: Structural Sr Manager	
Degree(s) / Years / Specialization		MS / 2015 / Civil Engineering; BS / 2014 / Civil Engineering
Active Registration Number / State / Expiration Date		25972 / NM / 31.12.2026 Additional active license: AZ, TX, SD, CO, ND, UT
Year Registered		PE NM: 2020
		Discipline Professional Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 3 - Analysis & Load Rating. Seth is experienced in structures design, construction, and inspection. He has served as the structural designer and load rating engineer on several bridge replacement and bridge renovation projects. His experience includes design, load rating and inspection of steel, prestressed concrete, conventionally reinforced concrete, masonry and timber structures of various types. His bridge inspection experience includes routine bridge inspection of numerous bridge types, in-depth inspection of steel structures, and due to his PCI Level I/II certification, he is experienced in precast, prestressed fabrication inspection

Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/19-Ongoing	NMDOT, Prestress Inspections, NM. Inspector. This project includes the precast/prestress inspection for eight NMDOT bridge projects. Seth performed the inspection of bridge elements including wingwalls, abutment caps, girders and approach slabs, in conformance with PCI standards and state specifications. This includes verifying prestress strand location, inspecting stressing rams, verifying mild steel location, and concrete consistency. Seth inspected and/or oversaw the inspection of four reinforced concrete, precast approach slabs, four reinforced concrete, precast wingwalls, two reinforced concrete, precast abutment caps, and 80+ prestressed concrete girders.
09/22	Bay Area Rapid Transit (BART), Fracture-Critical Inspections, Oakland, CA. Inspector. AECOM developed a fracture-critical inspection plan for BART and has an ongoing contract to perform fracturecritical inspections for the light rail system structures in Oakland and the surrounding areas. Seth performed fracture-critical inspections on 13 structures composed of single trapezoidal box girders or two girder superstructures. A bucket truck was used to access the bridges.
06/22-07/23	NDDOT, County/Local Bridge Inspections and Load Ratings, North Dakota. Structural Engineer, Inspector, Load Rater. This project included the inspection and load rating of 642 bridges , of which Seth inspected approximately 100 and load-rated over 150. The bridges were conventional P/S concrete girder, steel girder, timber stringer, concrete culvert bridges, and steel culvert bridges.
07/19	ADOT, Statewide On-Call Bridge Engineering, Assessment, and Evaluation, Arizona. Inspection Team Leader/Bridge Engineer. Seth assisted with inspections of 28 bridges, including conventional P/S concrete girder, steel girder, timber stringer, and concrete culvert bridges. His responsibilities included serving as a team leader for routine, in-depth, and fracture-critical field inspections, documenting element-level ratings of bridge components, supervision and review of inspections performed by junior inspectors, preparing draft and final inspection reports meeting the NBIS based on field observations, addressing client comments on draft reports, and sealing final inspection reports as the engineer-of-record.

Seth McVey, PE, CBI, PCI Task 3 - Analysis & Load Rating - Cont.	
09/21-06/22	Mississippi Office of State Aid Road Construction (OSARC), Timber Inspection and Load Rating, MS. Structural Engineer/Load Rater. This project included the inspection and load rating of 100+ bridges, of which Seth load rated 34 and inspected 10. The steel and concrete structures were inspected in a snooper truck. The bridges inspected/load rated were conventional P/S or reinforced concrete girder, timber stringer founded on timber substructures, or steel structures on various foundation types
01/19 - 09/19	Valley Metro Rail Inc., South Central Light Rail Transit Extension, Phoenix, AZ. Structural designer developed structural illustrations to support final design of Valley Metro's South Central light rail transit (LRT) extension, which will add 5 miles of double-track alignment south from downtown Phoenix, generally along Central Avenue, to Baseline Road.
08/15 - 07/17	New Mexico Department of Transportation, Statewide On-Call Bridge Design 2017-2019 - NM124 Bridge over I-40, Albuquerque, NM. Structural designer formulated and developed structural illustrations as part of a multi-year, task order contract to support additional construction engineering services on an as-needed basis for the bridge portion of the project.
08/20	Utah Department of Transportation, SR 55 Bridge Rehabilitation, Price, UT. Structural designer developed structural illustrations as part of the preparation of design and construction documents to remove a concrete bridge deck and do miscellaneous bridge rehabilitation work for a 4-span structure in Price, Utah.
06/18-08/18	New Mexico Department of Transportation, Statewide On-Call Bridge Design 2017-2019 - Bridge Load Rating, Albuquerque, NM. Bridge engineer evaluated the adequacy of various structural components to carry predetermined live loads for the bridge design, as part of a multi-year, task order contract to support statewide on-call bridge design services.
08/17 - 01/19	US Army Corps of Engineers Tulsa, Fort Wingate Depot Activity Parcel 3 Closure & Corrective Action, Fort Wingate, NM. Structural designer and inspector providing services for Fort Wingate Depot Activity (FWDA) Parcel 3 closure and corrective action, Fort Wingate Depot Activity, McKinley County, New Mexico.

		Firm AECOM	
Name: Steve Haynes, PE Title: Complex/Movable Structures Load Rating		Years of relevant experience with this employer	25
		Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization		BS / 1978 / Civil Engineering	
Active Registration Number / State / Expiration Date		PE.0043319 / LA / 09.30.26 Additional active licenses: CO, TX, KY	
Year Registered		PE LA: 2019	Discipline Civil Engineer
Contract Role(s) / Brief Description of Responsibilities		Complex/Movable Structures Support. Steve is a senior project manager and bridge designer with extensive experience in analysis, design, and load rating of bridges and other structures. He will apply his knowledge in support of the bridge team. He is knowledgeable of the AASHTO bridge design specifications and AASHTO bridge construction specifications for steel, precast, and post-tensioned concrete bridges, including the design of complex substructures.	
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).		
09/25-Ongoing	BSMT (ODOT & KYTC), Brent Spence Bridge Project, OH/KY. Lead engineer in the design and load rating of the double decked approach bridges to the Ohio River Crossing Bridges between Cincinnati, OH and Covington, KY. Designing retrofits of existing 1700' three span Brent Spence Truss Bridge for the new approaches. The new approach bridges are bifurcated bridges nearly 900' in length consisting of a combination of prestressed concrete girder and structural steel including triple-I steel straddle bents		
07/18-06/26	TxDOT, Skillman Tied Arch Bridge, Dallas, TX. Lead engineer for the design and load rating of a 285' Steel Tied Arch Bridge over Interstate Highway 635 for the IH 635E Design Build Project. Designed the tied arch consists of 2 main arch ribs and a center partial arch rib 60'-6" tall with network hangers. The overall bridge width is 217.5' minimum width to accommodate truck turn-arounds. The turn-arounds cantilever over 30' beyond the arch ribs and must accommodate HL93 Loads and WB62 Truck Turning Movements. Challenges include designing steel floor beams for the large cantilevers and the design of the arch hangers assuming loss of one of the network hangers. The design complies with TxDOT and AASHTO LRFD Requirements.		
07/15-Ongoing	LADOTD (State Project No H0042735) I-49 Connector, Lafayette Regional Airport to I-10/I-49/US 167 Interchange, Lafayette Parish, LA. Structural task lead for the conceptual designs of Signature Bridge Options totaling approximately 840 feet in length and a main span approximately 400'. Technical Task Leader for AECOM's portion of this design study report. Provided QC for the superstructure and design of the substructure elements for this bridge, including straddle bents in excess of 130' in length. AECOM was tasked with the design for Spliced U-Girder Alternative. The viaduct consisted of multiple structures. The study area and was in excess of 15000' long with a number of ramps. Considering the parallel I-49 structures, the overall bridge length studied was in excess of 10,000 feet each and over 120 spans total. Midas and CSIBridge were utilized for the designs of the structures. Designed the structure in accordance with LADOTD's Guidelines and AASHTO LRFD requirements.		
10/17-12/19	Washington DC Department of Transportation, Frederick Douglass Memorial Bridge, Washington DC. Structural engineer designing foundations for this 3-span suspended arch bridge crossing the Anacostia River. The bridge is 1445' in length and spans 540' over the main channel. Challenges included designing deep pile foundations in soft soils, including the design of the bridge for active threats, such as ship collisions which could potentially damage several supporting piles at the piers. The design plans comply with Washington D.C's DOT Standards and AASHTO's LRFD Requirements.		

	Firm AECOM
	Name: Tanya Tsekhanovsky, PE Title: Task 8 - Misc. Rating Work Lead Years of relevant experience with this employer 6 Years of relevant experience with other employer(s) 5
Degree(s) / Years / Specialization	MEng / 2018 / Civil Engineering; BSc / 2016 / Civil Engineering
Active Registration Number / State / Expiration Date	90628 / FL / 02.28.2027
Year Registered	PE FL: 2021 Discipline Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Task 8 Lead, Task 5 Support. Tanya is a Structural Engineer with over 11 years of experience in the load rating analysis, evaluation, and design of steel and concrete bridges. Her experience includes bridge design and inspections, structural evaluations, and bridge load ratings for conventional bridges, as well as analysis and evaluation of major cable-supported bridge structures. She has experience serving as Engineer of Record for bridge load rating assignments. Her project experience also includes the development of bridge evaluation tools, rehabilitation studies, and structural analysis for complex bridge structures designed in accordance with AASHTO LRFD, the AASHTO Manual for Bridge Evaluation, and CSA S6.
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).
05/26-Ongoing	Tampa-Hillsborough Expressway Authority (THEA), Post-Tensioning Retrofit: Selmon West Extension, Tampa, FL. Structural Engineer supporting the retrofit design by laying out the established external post-tensioning tendon profiles in three dimensions to evaluate compatibility with existing structural components and utilities. She also assisted with a field investigation to verify existing conditions and support development of the retrofit details and evaluated the existing bottom deviators for the revised force demands. She continues to provide post-design engineering support through the technical evaluation of shop drawings, work plans, and contractor submittals. The Selmon West Extension is a 1.9-mile elevated toll facility that carries regional traffic above Gandy Boulevard and provides a signal-free connection between the Gandy Bridge and the Lee Roy Selmon Expressway. The project involved the retrofit of Unit 5, a four-span segmental/finned-back concrete structure, to address cracking observed in Spans 19 and 20.
05/25-Ongoing	Windsor-Detroit Bridge Authority, Gordie Howe International Bridge Design-Build-Operate-Maintain Project (Public Private Partnership), I-75 Spur over Detroit River, Wayne County, MI. Lead Structural Engineer and Load Rating Tool Development Lead. Tanya was the technical lead responsible for the development of an automated overload vehicle evaluation tool for the main cable-stayed bridge and approach steel girder bridges. The tool evaluates arbitrary permit vehicles in accordance with the AASHTO Manual for Bridge Evaluation, AASHTO LRFD Bridge Design Specifications, and CSA S6 Canadian Highway Bridge Design Code using finite element analysis models and influence surfaces to evaluate stay cables, steel edge girders, floor beams, and other primary structural components. Tanya designed and implemented automated routines for structural demand calculations, rating computations, and report generation to provide consistent, repeatable overload vehicle evaluations. She also established quality control procedures to verify rating results and improve the efficiency and reliability of permit vehicle evaluations across the bridge. The Gordie Howe International Bridge is a 1.5-mile, six-lane cable-stayed bridge spanning the Detroit River between Detroit, Michigan and Windsor, Ontario. It is currently the longest cable-stayed bridge in North America.

Tanya Tsekhanovsky, PE Task 8 - Misc. Rating Work Lead - Cont.	
01/26-Ongoing	City of Cedar Rapids, 8th Avenue Bridge Replacement, Grand Rapids, IA. Structural Engineer for Independent Design Check. Tanya performed independent design checks and structural analyses for major bridge components and connections. She developed independent engineering calculations, evaluated structural behavior and load paths, compared analytical results with the Engineer of Record's design, and documented technical findings supporting the Independent Design Check.
05/24-05/25	FDOT, District 2 Local Government Bridge Inspection Contract (CAF02), FL. Structural Engineer for Bridge Load Ratings. Tanya performed bridge load ratings for a broad range of conventional bridge structures, including reinforced concrete, prestressed concrete, structural steel, and timber bridges . She reviewed bridge plans, inspection reports, previous load rating calculations, and record documentation to establish engineering assumptions, develop structural analysis models, identify governing members and limit states, and evaluate bridge capacity. She also served as Engineer of Record for bridge load rating assignments, signing and sealing engineering calculations prepared in accordance with the AASHTO Manual for Bridge Evaluation and applicable FDOT requirements. She coordinated technical deliverables, addressed technical review comments, and supported the successful delivery of multiple bridge load rating assignments.
04/22-10/25	CTDOT, I-95 Bridge over Quinnipiac River (Pearl Harbor Memorial Bridge), New Haven, CT. Structural Engineer and Load Rating Tool Development Lead. Tanya led the development of an automated permit vehicle load rating tool for the Pearl Harbor Memorial Bridge in New Haven, Connecticut. The tool incorporated project-specific analytical procedures for permit vehicle evaluations in accordance with the AASHTO Manual for Bridge Evaluation. She developed and programmed an Excel-based, macro-enabled load rating tool incorporating influence-line data and project-specific rating procedures. She implemented automated calculation routines and standardized reporting routines to improve the efficiency and consistency of permit vehicle evaluations. Tanya also performed load ratings for the Pearl Harbor Memorial Bridge's extradosed cable-stayed main span . She prepared engineering calculations for legal and permit vehicle load ratings, evaluated the stay cable system, towers, and extradosed post-tensioned box-girder superstructure, and verified structural capacity in accordance with the AASHTO Manual for Bridge Evaluation.
01/20-06/22	FDOT D7, I-275/SR 60 Interchange with Express Lanes, Hillsborough County, FL. Structural Engineer for preliminary design. Tanya performed bridge design for prestressed concrete beam bridges, including span layout development, girder sizing, preliminary reinforcement design, and substructure evaluation. She prepared engineering calculations for bridge geometry, framing alternatives, and preliminary bridge plans. She evaluated alternative bridge configurations, coordinated bridge geometry with roadway design and staged construction requirements, and collaborated with roadway, drainage, geotechnical, and construction disciplines to develop preliminary bridge concepts compatible with project constraints. The I-275/SR 60 Interchange improvements include express lanes, high-level system-to-system connections to Tampa International Airport and the Veterans Expressway, and accommodations for a future transit corridor. The project includes more than 50 new and modified bridge structures consisting of steel and concrete viaducts, curved girders, hammerhead piers, eccentric pier arrangements, and complex staged construction.

	Firm AECOM			
Name: Yi Edward Zhou, PE, PhD Title: Instrumentation Task Leader/Task 4 Lead			Years of relevant experience with this employer	28
			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		BS/1982/Civil Engineering; MS/1990/Civil Engineering; PhD/1994/Structural Engineering		
Active Registration Number / State / Expiration Date		21330 / MD / 9.2.2026 Additional active license: DE, VA		
Year Registered		PE MD: 1995	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities		Task 4 - Training. <i>Ed is AECOM's Bridge Instrumentation & Evaluation Lead in North America with 28 years of experience in bridge evaluation, structural health monitoring, NDE, load testing, inspection, load rating, and rehabilitation. He specializes in using instrumentation, monitoring, digital imaging, and UAS technologies to assess bridge condition and performance and support data-driven asset management decisions. Ed is also a recognized expert in fatigue and fracture of steel bridges and has contributed to national bridge testing and load-rating guidelines through ASCE, TRB, and NCHRP.</i>		
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).		
12/19-02/20		Colorado DOT, Live Load Test for Investigating Concrete Cracking of Pier 5 Straddle Beam of WB-WB Ramp Bridge over C-470 Express Lanes, Douglas County, CO. Technical Leader for live load testing of reinforced concrete straddle beam (6'-6" wide by 9'-0" deep by 81'-0" long) of Pier 5 of the 9-span prestressed concrete girder structure with a total length of 1,156 ft. The testing was for investigating concrete cracking in the straddle beam discovered during construction before the bridge opened to regular traffic.		
04/14-Ongoing		Connecticut DOT, Two-Year Structural Monitoring of Extradosed/Cable-Stayed Pearl Harbor Memorial Bridge (I-95 over Quinnipiac River) of Post-Tensioned Segmental Concrete Box Girders, CT. Technical Leader for the development and implementation of a two-year structural monitoring program for the extradosed/cable-stayed 3-span dual structures consisting of post-tensioned segmental concrete box girders. Work scope includes: design of a comprehensive structural monitoring system (SMS) consisting of 252 sensors; development of a procurement package including instrumentation plans, performance specifications and qualification requirements; inspection and oversight during system installation by contractor; acceptance testing and commissioning of SMS; specification and oversight of live load and cable plucking tests at beginning, middle, and end of monitoring period; data collection, processing, management, analysis, interpretation and reporting throughout monitoring period; assessment of actual bridge behavior in comparison with analytical predictions by design models; establishment of normal behavior envelopes and anomalous behavior thresholds for sensor measurements; and recommendations to provide guidance for bridge maintenance, inspection, and load rating . Also included in this project is photogrammetric mapping of existing concrete cracks on interior of box girders and exterior of tower legs in 12 areas surrounding crackmeters at beginning, middle and end of two-year monitoring period.		

Yi Edward Zhou, PE, PhD Task 4 - Training - Cont.	
01/20-Ongoing	VDOT, Route 360 Corridor Evaluation of 22 Structures, Fredericksburg District. NDT Task Lead on this task to evaluate rehabilitation needs for 22 structures along the Route 360 corridor. He was responsible for development and quality assurance review on our program for assessment of the existing structure condition, including Infrared scanning for delamination detection, three-dimensional ground penetrating radar for deck condition assessment, and digital image mapping for crack detection. Structures range in length up to 500 feet and include both concrete and steel superstructures. The analysis results supported our data-driven process for rehabilitation recommendations and budget prioritization.
05/18 – 06/19	CDOT, I-76 over Clear Creek Fatigue Study, Adams County (CDOT NPS Contract), CO. Lead Instrumentation Engineer for a fatigue study for EB and WB I-76 over Clear Creek. These bridges are highly skewed, multi-span, steel plate girder bridges that collectively have over 60 known distortion induced fatigue cracks due to a gap between the cross-frame stiffener and the bottom flange. The project included detailed inspections; instrumentation with strain gages and displacement transducers; full scale load testing; data collection and analysis; three-dimensional finite element analysis (FEA); and developing conceptual fatigue retrofit details. Field testing was used to calibrate the FEA to have an accurate tool to evaluate fatigue retrofit strategies. Adjustments to the model such as member properties and boundary conditions, allow the model to be refined to replicate the load test responses.
07/18-09/20	Virginia DOT, Vibration Testing and Evaluation of External P-T Tendons in Segmental Concrete Box Girders of Cable-Stayed Varina-Enon Bridge (I-295 over James River). Technical Leader for applying the taut cable vibration measurement (TCVM) method for condition evaluation of external post-tensioning (P-T) tendons inside segmental concrete box girders of the 28-span dual structures built in 1990 with concerns on steel strand corrosion inside the grouted PVC duct.

	Firm Stantec Consulting Services Inc.		
Name: Bagyalakshmi "Bagya" Shanmugam, PhD, EI Title: Principal, Structural Engineer-in-Training	Years of relevant experience with this employer		4
	Years of relevant experience with other employer(s)		2
Degree(s) / Years / Specialization	PhD 2011 Civil Engineering; MS 2003 Structural Engineering		
Active Registration Number / State / Expiration Date	0035308 LA 3.31.2027		
Year Registered	EI LA: 2022	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Structural EIT. Bagyalakshmi is a structural engineer in training with six years of experience. Her skill set involves analyzing, designing, inspecting and load rating of various types of bridge structures . She also has experience in analyzing and designing temporary steel shelters and ITS structures and their foundations. She is well versed in AASTOWARE BrR , CONSPAN, FBmultiplier, RC Pier, STAAD-pro, MDX and CSi.		
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).		
10/24 – 12/25	BASCULE LOAD RATING CONTRACT Mississippi DOT, MS. Engineer in Training. Stantec was responsible for developing a methodology to load rate bascule bridges in AASHTOWare BrR for MDOT and then use the developed methodology to load rate three bridges. The first bridge was modeled in AASHTOWARE BrR and then in CSIBridge to compare the results and guide BrR model revisions. The remaining two bridges were then modeled in BrR using the methodology developed on the first bridge. Bagya's responsibilities included developing the methodology for load rating factors of bascule bridges in BrR, modeling and load rating the bridges in BrR and CSIBridge, compiling load rating modeling, analysis, and results considerations, and writing the load rating report.		
10/22 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Engineer in Training and Inspection Team Leader. Project included inspection and load rating of over 100 off-system bridges in 17 different Mississippi Counties. Inspections and load ratings are performed in accordance with current NBIS and procedures as outlined in the AASHTO MBE. Structure types include steel trusses, structural steel plate girders, steel railroad flat cars, reinforced concrete girders and slabs, reinforced concrete box culverts, and masonry arches.		
10/22 - Ongoing	MISSISSIPPI STATEWIDE TIMBER BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Engineer in Training and Inspection Team Leader. Bagya is responsible for inspecting and load rating 120 bridges with timber elements in 10 different Mississippi Counties. Inspections are at arms-length and in accordance with NBIS. Load ratings are performed using AASHTOWare BrR , RC Pier, and in-house analysis tools for timber and in accordance with ASD and LFR guidelines. Predominately the bridges consist of timber piles; however, a large number are full timber structures.		

Bagyalakshmi "Bagya" Shanmugam, PhD, EI Structural EIT - Cont.	
09/24 – 01/25	BRIDGE INSPECTIONS AND LOAD RATINGS (WA5 – WA7) Statewide, TX. Engineer in Training. This project involved checking inspection reports and load rating calculations of bridge structures from three districts according to the latest NBIS based on SNBI. Bagya reviewed on-system and off-system bridge inspection reports and load ratings from eight different sub-consultants to ensure consistency between reports being submitted. She also reviewed Stantec inspection reports.
05/24 – 07/24	TXDOT LOAD RATING (WA4) Statewide, TX. Engineer in Training. Stantec was requested by TxDOT to perform an independent check of the load rating of a curved steel bridge structure in accordance with MBE and AASHTO standards. The structure comprised of curved steel girders framing into steel cap at the intermediate bent. The cap was supported by rotational bearings free to rotate longitudinally along the bridge. To simplify the bridge analysis process, Bagya built an MDX model of the superstructure. Rotational stiffness of the intermediate support in MDX was calculated by building a CSI bridge model of the intermediate support. MDX was used to calculate rating factors.
12/22 – 08/23	SR 16/ SR 149 FLOODWAY CHANNEL YAZOO RIVER (BRIDGE NOS. 210.9, 211.1 & 211.8) Project No. STP-0037-04(059)/ 107397-101100 MS. Engineer in Training. The project consists of designing three bridges across Yazoo River in Mississippi. Bagya designed the substructure and superstructure of the two prestressed bridges and one steel bridge per AASHTO and MDOT Bridge design manual. Superstructure design involved load calculations, deck design, prestressed girder design, steel plate girder design, elevation calculations, intermediate and abutment bent design, back wall design, bearing design, joint width calculation and foundation design and as-design load rating of the bridge and estimating summary of quantities. AASHTO Bridge Rating Software , RCPier, MDX, FBMultipier and MS-excel software were utilized.
08/25 – 09/25	SOUTHERN COMFORT SHELTERS Project No: 201802424 LA. Engineer in Training. The project involves the design and analysis of fabric covered temporary shelters (50, 60, 72 and 80 ft wide and 3ft/5ft spaced frames, 60 ft wide and 10 ft spaced frames) compliant to current ASCE and AISC standards. Bagya's responsibilities include calculating the wind and snow loads based on current ASCE design standards for wind and snow loads and updating and analyzing the temporary structure models. She is also responsible for creating new STAAD model for the 80 and 72 ft shelter.
06/24 – 12/24	STATEWIDE BRIDGE LOAD RATING Alabama Department of Transportation Statewide, AL. Engineer in Training. Stantec was responsible for load rating 12 bridges of various types – Simple span and continuous span T-beams, Continuous steel plate girders, steel beam encased girders, Steel beams and post tensioned channel beams. Bagya's responsibilities included load rating (LRFR) of simple span/ continuous concrete T-beam bridges and continuous steel plate girder bridges using AASHTO Bridge Rating Software and Excel spread sheet.
03/24 – 06/25	SR 28 OVER PEARL RIVER REPAIRS Mississippi DOT Copiah and Simpson Counties, MS. Engineer in Training. Project included the inspection and repair of a steel through truss that was damaged due to an oversized vehicle impact. When the damage occurred, MDOT requested Stantec to perform a damage inspection to determine the extents of required rehabilitation. Stantec completed the initial inspection and coordinated the hands-on inspection just one week after the impact. Repair plans were developed using the inspection findings. Truss members were replaced in-kind. Stantec reviewed contractor shop drawings and temporary support design for each phase of construction.

	Firm Stantec Consulting Services Inc.			
	Name: Heather Deare, PE Title: Bridge Inspection Engineer		Years of relevant experience with this employer	5
			Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS 2007 Civil Engineering		
Active Registration Number / State / Expiration Date		36800 LA 3.31.2028		
Year Registered		PE LA: 2011	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities		Bridge Inspection Engineer. Heather has 18 years of engineering experience related to bridge design, bridge maintenance/repair, and NBIS bridge inspection. She has been involved in the design of a variety of structure types such as prestressed concrete girders, precast slab spans, concrete columns, pile-supported footings, drilled shafts, and retaining walls both MSE and concrete. Through her years of bridge design she gained a true understanding of bridge mechanics and behavior and began applying that to a path in bridge maintenance. During her time at the LADOTD she was responsible for the design and delivery of a variety of bridge maintenance projects across Louisiana ranging from pilot installations of innovative preservation products to emergency repairs resulting from collision accidents. She learned valuable skills regarding realistic and practical preventative maintenance and repair solutions.		
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).		
02/26 – Ongoing		MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Bridge Inspection Engineer. Heather manages all field and office work for inspecting and load rating over 200 bridges annually through the state of Mississippi. Inspections and load ratings are performed in accordance with current NBIS and SNBI and procedures as outlined in the AASHTO MBE. Her responsibilities also include inspection scheduling / coordination, performing QC/QA on field inspections, load ratings, and inspection reports, and assisting with invoicing. Structure types include steel trusses, structural steel plate girders, steel railroad flat cars, reinforced concrete girders and slabs, and reinforced concrete box culverts.		
01/12 – 03/13		STATE ROUTE 178 BRIDGE REPLACEMENTS MDOT Marshall County, MS . Structural Engineer. Under a Master Bridge Retainer contract, Stantec was tasked with designing 3 bridges along a corridor of SR 178 in Marshall County. The first, over Chewalla Creek and BSNF Railway will be a 894-foot prestressed concrete structure. The other two, both presetressed concrete bridges on Type III and BT-72 girders, will span 1374 and 280 feet over the Tippah River and Tippah Relief, respectively. Design Phase A will involve the preliminary plans, bridge hydraulics, with Phase B final plans and seismic design to be submitted in October 2012. Heather was responsible for the design of all bridge elements including: bridge decks, prestressed girders, plain and laminated bearing pads, columns, drilled shafts, and pile bent caps. All design is in accordance with the 2012 AASHTO LRFD Bridge Design Specifications		

Heather Deare, PE Bridge Inspection Engineer - Cont.	
01/20 – 05/23	BRIDGE MAINTENANCE PRECAST SLAB SPAN STANDARDS LADOTD Statewide, LA. Project Manager. LADOTD's Bridge Maintenance section has two in-house construction crews that can handle a variety of complex construction projects including slab span spot replacements and at the time they were following an older standard plan that no longer met the MASH criteria that the Department had moved towards. Heather took on the role of designing a new set of Bridge Maintenance precast slab span standards which included the precast panels themselves as well as the precast bent caps. She worked closely with one of the prominent precast fabricators in the area to develop a precast panel that would be easily constructable while meeting the MASH criteria. Achieving the appropriate barrier rail crash requirements involved casting the single-slope barrier rail directly onto the exterior panel to create a structurally adequate slab span when coupled with high-strength concrete closure pours. These standards have been used by the bridge maintenance construction crews since 2021 without issue.
02/20 – 03/23	LOAD TESTING OF BRIDGES LADOTD Statewide, LA. Project Manager. Occasionally, the results of a load rating may appear to conflict with the physical condition of the bridge due to conservative calculation assumptions. In those cases where it is desired that the load rating results be verified, load tests would be utilized to accurately measure the bridge's response to known loading. Detailed models can then be created and analyzed to determine the true load carrying capacity. Heather managed several of these load tests across Louisiana as situations arose. These tests involved lining up instrumentation installation prior to the work, traffic control, nearby material stockpiles to accurately load the test trucks, mobile weight scales, and consultant availability.
01/21 – 02/23	LA 1: BAYOU PLAQUEMINE BRIDGE STRENGTHENING LADOTD H.014608 Iberville Parish, LA. Project Manager. LA 1 is a major highway used by many commercial industries for transporting large/heavy equipment. This corridor should not be load posted unless absolutely necessary for public safety. A load rating at the time determined that the bridge over Plaquemine Bayou needed to be load posted until repairs could be made. Heather was the project manager and coordinated with the consultant to, first, perform a load test and, second, to design the necessary repairs as the load test still indicated that a load posting would be required. This project was accelerated due to the economic importance of keeping this corridor open. Due to the alignment of the roadway in this section of the highway extensive traffic control was required which involved moving southbound traffic over to the northbound lanes far in advance of the bridge location and, ultimately on to the northbound adjacent bridge. The repairs were completed quickly and the bridge load posting was removed.
03/09 – 12/12	L'AUBERGE BATON ROUGE HOTEL & CASINO, RIVER ROAD RELOCATION LADOTD Baton Rouge, LA. Structural Engineer. The project consisted of several offsite improvements near the intersection of Gardere Ln. and Nicholson Dr. A retaining wall was necessary at this particular roadway widening location due to the embankment requirements within an area lacking the necessary ROW. The retaining wall is supported on both spread footings as well as drilled shafts at separate locations along the project. The drilled shaft foundation is used to alleviate ground pressures over gas utility pipelines present in the area. Also within the area was a precast slab "land bridge" unit over a pipeline that was necessary in order to provide safe utility access to an energy substation. Heather was responsible for the retaining wall, foundation, and precast slab designs, quantity calculations, plan review, and has attended several meetings with various utility companies during the design phase to resolve any design conflicts.

		Firm Stantec Consulting Services Inc.		
Name: John Krebs, PE Title: Senior Structural Engineer		Years of relevant experience with this employer		13
		Years of relevant experience with other employer(s)		4
Degree(s) / Years / Specialization		MS 2008 Civil Engineering; BS 2007 Civil Engineering		
Active Registration Number / State / Expiration Date		37259 LA 9.30.2026		
Year Registered		PE LA: 2012	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities		Senior Structural Engineer. John has 17 years of engineering experience providing engineering design and load ratings for bridges and interchanges for LADOTD, MDOT, and KYTC and currently serves as a project manager in the Structural Division at Baton Rouge. His primary expertise lies in the engineering analysis and design of a variety of structure types such as prestressed concrete girders, reinforced concrete substructure elements, and retaining walls. He has been heavily involved in the inspection and load rating of existing bridges in both Louisiana and Mississippi. John has excellent working knowledge of AASHTO LRFD and the LADOTD Bridge Design Manual. He is proficient in several commercial software packages including AASHTOWare BrR , RC-Pier, CONSPAN, MDX, and STAAD.		
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).		
10/24 - 12/25		BASCULE LOAD RATING CONTRACT Mississippi DOT, MS. Load Rating Project Manager. Stantec was responsible for developing a methodology to load rate bascule bridges in AASHTOWare BrR for MDOT and then use the developed methodology to load rate three bridges. The first bridge was modeled in AASHTOWARE BrR and then in CSIBridge to compare the results and guide BrR model revisions. The remaining two bridges were then modeled in BrR using the methodology developed on the first bridge. John's responsibilities included vetting the methodology for loading bascule bridges in BrR , providing QC to all load rating models, quality control/quality assurance of the load rating report, and general coordination with the MDOT Project Manager.		
03/13 - 03/17		LADOTD LOAD RATING AND POSTING OF 630+ ON-SYSTEM BRIDGES LADOTD Statewide, LA. Project Engineer. John served as a project engineer for the load rating of over 630 on-system bridges . The bridges were load rated in accordance with current LADOTD and AASHTO specifications. Models were developed in AASHTOWare BrR , CSI Bridge, STAAD and RC-Pier to determine rating factors and bridge posting requirements. Structure types included structural steel plate girders and rolled beams, prestressed concrete girders, concrete slab spans, hammerhead and multi- column bents, and steel beam bents. John was responsible for QA/QC of rating analyses and the final rating reports.		
10/17 - 01/19		AASHTOWARE BRIDGE LOAD RATING MDOT Statewide, MS. Project Engineer. John served as a project engineer for the load rating of 120 bridges using AASHTOWare BrR . Structure types included steel plate girders, prestressed concrete girders, concrete T-beams, concrete slab spans, and integral reinforced concrete multi-cell box girders. Ratings were performed in accordance with the current MDOT and AASHTO standards. John was responsible for day-to-day support of the load rating engineers and performing QC/QA on finished load ratings.		

John Krebs, PE Senior Structural Engineer - Cont.	
08/10 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid and Road Construction Statewide, MS. Project Engineer and Inspection Team Leader. John serves as a project engineer and inspection team leader. As an inspection team leader, John is qualified to direct a team in the field to inspect and document bridge deficiencies according to the National Bridge Inventory standards. As a project engineer, John assists in load rating of bridge structures using AASHTOWare BrR and RC-Pier in accordance with the latest Manual for Bridge Evaluation (MBE) as well as QC/QA of bridge load rating calculations and reports. Structure types on this project include steel trusses, steel plate girders, prestressed concrete, concrete boxes, concrete channel beams, masonry arches, steel railroad flat cars, and box culverts.
12/15 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Contract No. H.005967 Lake Charles, LA. Structural Engineer. John worked on the bridge and structural design efforts during preliminary plans. Project tasks included preliminary design of bridge superstructure, substructure including foundations, median barrier design and as-designed load rating. Other design elements include navigational lighting bridge attachments, steel bracket light supports with concrete anchors to the bridge structure. Structural Design was performed in compliance with AASHTO LRFD Specifications. In addition, he completed the vessel study report detailing the expected water-borne vessel traffic and establishing the need for pier protection structures.
08/10 - Ongoing	MISSISSIPPI STATEWIDE TIMBER BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid and Road Construction Statewide, MS. Project Engineer and Inspection Team Leader. John serves as a project engineer and inspection team leader. As an inspection team leader, John is qualified to direct a team in the field to inspect and document bridge deficiencies according to the National Bridge Inventory standards. As a project engineer, John assists in load rating of bridge structures using AASHTOWare BrR and RC-Pier in accordance with the latest Manual for Bridge Evaluation (MBE) as well as QC/QA of bridge load rating calculations and reports. The bridges for this project are located across 10 different Mississippi counties. Superstructure types include concrete channel beams, prestressed concrete girders, timber stringers, and steel girders. These bridges are predominantly supported by timber piles categorizing them as timber structures.
02/19 - 04/19	ALDOT LOAD RATING OF 30 BRIDGES ALDOT Statewide, AL. Project Engineer. John served as a project engineer for the load rating of 30 bridges in AASHTOWare BrR . The bridges were load rated in accordance with current ALDOT and AASHTO specifications. Bridge types rated were steel plate girders, prestressed concrete girders, reinforced concrete T-beams, and precast prestressed concrete voided slabs. John served as QA/QC for the AASHTOWare ratings and final rating reports.
04/11 - 03/15	I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD H.010151 Lake Charles, LA. Project Engineer. John was responsible for the design and plan development of three bridges and an MSE wall system load transfer platform. The bridge along I-210 consists of a single 130-ft long LG-54 prestressed concrete girder span founded on true abutments (spread footings). The remaining bridges consist of concrete slab spans founded on concrete pile bents. All design was performed in accordance with AASHTO LRFD Bridge Design. Project received the Highways/ Bridges: Award of Merit from the Engineering News Record for Texas and Louisiana in October 2016.

	Firm Stantec Consulting Services Inc.	
	Name: Kunal Malpani, PE	
	Title: Structural Engineer	
Years of relevant experience with this employer		13
Years of relevant experience with other employer(s)		0
Degree(s) / Years / Specialization	MS 2012 Civil Engineering; BS 2010 Civil Engineering	
Active Registration Number / State / Expiration Date	43016 LA 3.31.2027	
Year Registered	PE LA: 2018	Discipline Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	Structural Engineer. Kunal has 13 years of engineering experience with an emphasis on structural projects. His primary focus has been in the analysis, design, load rating , and inspection of a variety of bridge types including prestressed concrete girders, structural steel plate girders, concrete slab spans, multi-column concrete bents, and pile bents. He is proficient in commercial software packages such as AASHTOWare BrDR , RC-Pier, CONSPAN, MDX, and STAAD. In addition to bridge design, Kunal has been involved in the design of highway sign structures and reviewing structural shop drawings.	
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).	
03/13 - 03/17	LADOTD LOAD RATING AND POSTING OF 630+ ON-SYSTEM BRIDGES LADOTD Statewide, LA. Engineer Intern. Kunal was responsible for performing load ratings and developing summary reports on a variety of structures including prestressed concrete girders, concrete slab spans, structural steel spans, timber and steel pile bents, and concrete hammerhead piers. More than 630 bridges statewide were load rated in accordance with current LADOTD and AASHTO specifications. Models were developed in AASHTOWare BrR and RC-Pier to determine rating factors and bridge posting requirements.	
09/13 - 11/17	LADOTD RETAINER CONTRACT FOR BRIDGE LOAD RATING LADOTD Statewide, LA. Load Rating Engineer. Kunal was responsible for developing LFR rating procedure using AASHTOWare BrR and STAAD for superstructure as per AASHTO MBE. Highlights of the project include rating Long Span Steel Through Trusses, Short span Steel Pony Trusses, and Masonry Arch Bridges.	
01/17 - 10/18	LOAD RATING AND POSTING OF 110 ON-SYSTEM BRIDGES LADOTD Statewide, LA. Structural Engineer. Kunal's responsibilities included developing the LRFR load rating procedure using the AASHTO Bridge Rating Software for superstructure and LEAP RC Pier for substructure as per AASHTO MBE and LADOTD rating guidelines. Project included load rating and posting of various bridge superstructure types including slab spans, prestressed concrete girders, rolled steel girders, and built-up steel plate girders. Bridges are located throughout the state and were load rated in accordance with LADOTD and AASHTO specifications. ASHTOWare BrR, CSI Bridge, and RC-Pier were used to determine rating factors and posting requirements. Highlight of the project was rating an 18,000 ft. long bridge with 268 spans on I-10 over New Orleans City Streets.	

Kunal Malpani, PE Structural Engineer - Cont.	
10/17 - 01/19	AASHTOWARE BRIDGE LOAD RATING MDOT Statewide, MS. Load Rating Engineer. Project included load rating of 120 bridges in MS. Load ratings were performed in accordance with the AASHTO LRFR or LFR method and current MDOT Standards. Only superstructure elements were considered for the load rating analysis. Structure types included steel plate girders, prestressed concrete girders, reinforced concrete T-beams, concrete slabs, and reinforced concrete multi-cell box girders (integral and non-integral). Kunal was responsible for load ratings and performing QC/QA.
02/19 - 04/19	ALDOT LOAD RATING OF 30 BRIDGES ALDOT Statewide, AL. Load Rating Engineer. The project included load rating of 30 bridges in Alabama . Load ratings were performed in accordance with the AASHTO LFR method and current ALDOT Standards. Only superstructure elements were considered for the load rating analysis. Structure types included steel plate girders, prestressed concrete girders, reinforced concrete T-beams, and concrete slabs. Comprehensive analysis referred to as Non-Standard Gage (NSG) or Distribution Factor-Line Girder Analysis was performed when Emergency Vehicle produced a rating factor less than 1.0. Kunal was responsible for load ratings and performing QC/QA.
06/16 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Load Rating Engineer and Inspection Team Leader. Project included inspection and load rating of over 100 off-system bridges in 17 different Mississippi Counties. Inspections and load ratings are performed in accordance with current NBIS and procedures as outlined in the AASHTO MBE. Structure types include steel trusses, structural steel plate girders, steel railroad flat cars, reinforced concrete girders and slabs, reinforced concrete box culverts, and masonry arches.
08/19 - Ongoing	MISSISSIPPI STATEWIDE TIMBER BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS. Load Rating Engineer and Inspection Team Leader. Kunal is responsible for inspecting and load rating 120 bridges with timber elements in 10 different Mississippi Counties. Inspections are at arms-length and in accordance with NBIS. Load ratings are performed using AASHTOWare BrR, RC Pier, and in-house analysis tools for timber and in accordance with ASD and LFR guidelines. Predominately the bridges consist of timber piles; however, a large number are full timber structures.
01/19 - Ongoing	I-10 LOYOLA DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA. Structural Design Engineer. Kunal assisted signing engineer in design of flyover ramps, consisting of concrete slab spans, prestressed concrete LG and LU girder spans, and twin horizontally curved steel tub girder spans supported by different substructure types including hammerhead bents, wall bents and pile bents. Kunal is currently looking over the as-built load rating of all the structural components.
02/19 - Ongoing	LA 12 BRIDGE REPLACEMENTS LADOTD Calcasieu Parish, LA. Project Engineer. Kunal is responsible for overseeing all superstructure and substructure design elements, performing load ratings , and reviewing construction submittals. As part of value engineering, Stantec is responsible for designing and detailing the replacement of six structurally deficient bridges along LA State Route 12 in Calcasieu Parish. The project is being executed in two phases of construction, with the first phase of widening to one side in order to accommodate two lanes of traffic, and a second phase to complete the reconstruction. This would allow structure replacement without the requirement of temporary bridges. All bridges consist of LA Quad beam girder spans supported on pile bents. Kunal is currently looking over the as-built load rating of all the structural components



**Statewide Bridge
Load Ratings**
Montana DOT

**1,000+
BRIDGES**

Section 17

**Relevance to LADOTD Bridge Load Rating
Statewide Services IDIQ: AASHTOWare BrR**
Load Rating, Posting Mitigation Strategies,
High Volume Statewide Load Rating Program



17. Firm Experience:

Firm	AECOM Technical Services, Inc.		Discipline(s)*	Bridge
Project name	IDIQ Contract for Bridge Load Rating Services Statewide		Firm responsibility (prime or sub?)	Subconsultant
Project number	H.009859.5		Owner's name	LADOTD
Project location	Louisiana Statewide		Owner's Project Manager	Billy Metcalf
Owner's address, phone, email	1201 Capital Access, Baton Rouge, LA 70808; 225.379.1741; William.metcalf@la.gov			
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost (\$1,000's)		\$5,906
Services completed by this firm (mm/yy)	08/26	Cost of consultant services provided by this firm (\$1,000's)		\$2,227

120+ BRIDGES

AASHTOWare BrR

BRIDGE RATINGS

102 concrete slab span and precast slab span units, 3 AASHTO and LG pre-tensioned girder, 7 reinforced concrete girder, 10 steel rolled beam

AECOM served as a subconsultant on LADOTD's statewide assignment to perform LRFR load rating analyses for the superstructures and substructures of 120 bridges across Louisiana.

The structures represent a number of LADOTD's standard plans, as well as a range of structure types, including prestressed girders, reinforced concrete slabs, and steel girders. AECOM also analyzed timber piles, steel piles, concrete bent caps, and timber and steel bent caps.

To expedite our substructure load ratings efforts, AECOM developed an innovative method for analyzing concrete bent caps supporting slab spans. The team modeled each bent cap as a line girder in AASHTOWare BrR, exported the influence-line data, and incorporated it into a proprietary spreadsheet that simulated vehicles moving transversely within each lane to identify maximum force effects. The tool combined dead load, live load, and capacity data to calculate ratings at critical locations and identify the controlling case. For multi-girder bridges, AECOM used LEAP to analyze the concrete bent caps.

This assignment includes superstructure and substructure analysis and mitigation strategies to avoid posting bridges with low ratings. AECOM researched available plans on LADOTD servers and in InspectX, extracting information from previous load rating and inspection reports. We developed a progress tracking tool to coordinate rating, QC, and reporting. We also identified and documented in the tool the best-fit standard drawings for bridges with missing plans, improving efficiency in rating similar structures for this and future assignments. AECOM efficiently designed and submitted 120 bridge load rating packages for the LADOTD'S Bridge Maintenance Department on schedule and under budget by deploying Baton Rouge and AECOM's National Bridge Load Rating staff.



Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Superstructure and substructure LRFR analysis
- Bridge ratings without plans
- AASHTOWare BrR and LEAP modeling
- Site visits, field measurements, plans research and record review
- Current-condition deterioration modeling
- Mitigation and repair recommendations



Key Personnel

Brett Canimore, Jason Zimpfer, Sarah Elsawah, Jason Mathers, Daniel Boyd, Josh Guitreau, Gabriel Umholtz, Jared Fattoross





Firm	AECOM Technical Services, Inc.		Discipline(s)*	Bridge
Project name	Movable Bridge Inspection, Load Rating, and Rehabilitation Design		Firm responsibility (prime or sub?)	Prime
Project number	H.011973.5, H.012737.5, H.012044.5, H.011969.5, H.011988.5		Owner's name	LADOTD
Project location	Louisiana Statewide		Owner's Project Manager	Fallon Farber
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802; 225-379-1986; fallon.farber@la.gov			
Services commenced by this firm (mm/yy)	01/25	Total consultant contract cost (\$1,000's)		\$2,847
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$2,349

5 Movable BRIDGE RATINGS

3 bascule, 1 swing, and 1 pontoon

“They are very responsive, provide accurate advice, and ensure deadlines have been met to ensure project stays on track.” - Fallon Farber, PE LADOTD PM Movable Bridges IDIQ

AECOM is providing in-depth bridge inspection, conceptual design and alternative analysis, **load rating** design/analysis, and preliminary and final design services for the following movable structures:

- **H.011969, LA 1264 (Ted Hickey Bridge) over Inner Harbor Navigational Canal**, Orleans Parish: 1,942-ft bridge, including a 120-ft bascule span
- **H.012044, LA 384 (Grand Lake Bridge) over Intracoastal Waterway**, Cameron Parish: 421-ft bridge, including 150-ft pontoon barge span
- **H.011988, LA 86 (Duperier Bridge) over Bayou Teche**, Iberia Parish: 242-ft bridge, including a 74-ft bascule span
- **H.011973, LA 315 (Dularge Bridge) over Intracoastal Waterway**, Terrebonne Parish: 2,311-ft bridge with a 150-ft bascule span
- **H.012737, LA 433 over Bayou Bonfouca**, St. Tammany Parish: 325-ft bridge included a 240-ft swing span

During initial task order efforts, AECOM performed NBIS In-Depth inspections of all five structures including structural, mechanical and electrical inspection of the movable span as well as structural inspection of the fixed spans and architectural and MEP inspection of the operator's houses. **Detailed inspection reports along with LRFR bridge load ratings were developed to assist the team with the identification, preparation, and evaluation of bridge rehabilitation and/or replacement alternatives** for LADOTD review/consideration.

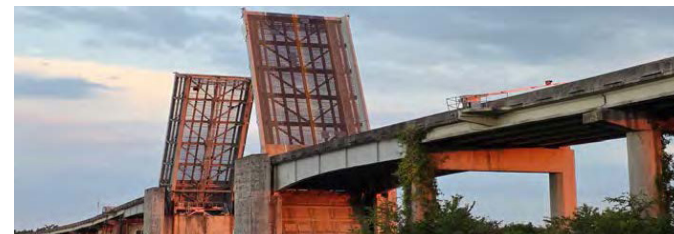
LRFR load rating designs were prepared in accordance with LADOTD's BDEM and AASHTO manual specifications. Rating calculations for the bascule, swing, and pontoon barge spans included main girder, floorbeam, stringer, and grid deck superstructures. Approach span mainly consisted of prestressed girder, steel girder and concrete slab spans. Designs were developed using AASHTOWare, finite-element analysis and other approved LADOTD design software.

Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Complex bridge rating analysis and design of movable spans and approach spans
- LRFR and NBIS in-depth inspections
- Site visits for current condition field-informed ratings
- Recommendations for rehabilitation and replacement
- Load rating results were used to identify the need for structural repairs to provide a 30-year service life following rehabilitation

Key Personnel

Daniel Boyd, Landon Whitton, Sarah Elsawah, Jason Zimpfer, Jon Eberle, Josh Guitreau, Myles Martin, Gabriel Umholtz





Firm	AECOM Technical Services, Inc.		Discipline(s)*	Bridge
Project name	LADOTD Bridge Preventative Maintenance IDIQ		Firm responsibility (prime or sub?)	Prime
Project number	H.011993, H.013832, H.015603		Owner's name	LADOTD
Project location	Statewide		Owner's Project Manager	Brian Allen, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 Phone: 225.379.1840 Email: brian.allen@la.gov			
Services commenced by this firm (mm/yy)	6/23	Total consultant contract cost (\$1,000's)		\$3,453
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$3,423



LA 6 Grand Ecore

AECOM has completed existing and as-designed bridge **load ratings** in accordance with the LADOTD Bridge Design and Evaluation Manual (BDEM) and applicable provisions of the AASHTO Manual of Bridge Evaluation using AASHTOWARE BrR software for the following task orders:

LA 641 Bridge Over I-10. In Spring 2023, an over-height equipment trailer impacted a portion of the LA 641 bridge spanning across the WB lanes of I-10 bridge. The trailer damaged several precast, pretensioned concrete girders, creating numerous concrete delaminations, spalls, and severed several pretensioning strands at one location. Scope of work included a detailed structure inspection, development of a comprehensive structure condition summary, existing review of as-built plans, **computation of existing and as-designed bridge load ratings**, and the development of final bridge rehabilitation plans to extend the bridge service life for this 1584-ft, multi-span, pretensioned concrete line girder structure.

This design required detailed analysis to determine the bridge's reduced load carrying capacity as a result of the girder damage and loss of the pre-tensioning strands.

LA 10 Bridge over Bayou Carron. As part of our final bridge design efforts for this 3-span, 240-ft, LG girder bridge replacement project, AECOM performed a **LRFR Bridge Load Rating design** in accordance with the LADOTD BDEM. The design was performed using **AASHTOWare's BrR software**. AECOM developed both **superstructure and substructure load rating** designs.

LA 6 Grand Ecore Red River Bridge. During the development of this Stage 0/1 design report, AECOM reviewed and **evaluated the existing bridge load rating model** and report to confirm the current load rating factors to identify the feasibility of installing a polymer concrete overlay and extend the structure design life. This 1879-ft, multi-span, steel plate girder structure included a 975-ft long, fracture critical (NSTM), two-girder, 3-span main unit that exhibited major deterioration. **AECOM's evaluation determined that the 0.85 condition factor (per Section C6A.4.2.3 of the AASHTO Manual of Bridge Evaluation (MBE) and corresponding LADOTD BDEM, was conservatively applied throughout the structure. By assigning this condition factor only to those deteriorated members, AECOM recommended to increase the overall load ratings approximately 10%.**



Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Movable spans and approach spans evaluated
- LRFR and NBIS in-depth inspections
- Site visits for field-informed ratings
- Complex and non-conventional bridge analysis
- Rehabilitation and replacement design



Key Personnel

Daniel Boyd, Jonathan McDowell, Sarah Elsayah, Jason Zimpfer, Myles Martin



Firm	AECOM Technical Services, Inc.		Discipline(s)*	Bridge
Project name	STATE AID TIMBER/COMPLEX INSPECTION AND LOAD RATING (2019-2025)		Firm responsibility (prime or sub?)	Prime
Project number	N/A		Owner's name	MDOT Office of State Aid Road Construction
Project location	Mississippi Statewide		Owner's Project Manager	Harry Lee James
Owner's address, phone, email	412 E Woodrow Wilson Ave, Jackson, MS 39216; 601.359.7150; hjames@osarc.ms.gov			
Services commenced by this firm (mm/yy)	08/19	Total consultant contract cost (\$1,000's)		\$7,000
Services completed by this firm (mm/yy)	08/25	Cost of consultant services provided by this firm (\$1,000's)		\$5,000

954 BRIDGES



140+ COMPLEX BRIDGES

steel trusses, pin-and-hanger, rolled steel, military, railroad, reinforced concrete I-beam, and timber

2024-2025 IDIQ. AECOM provided inspection and **load ratings of 187 bridges** that were identified as having timber substructure and/or steel superstructures. **The timber substructures were inspected primarily using non-destructive testing techniques, with spot checks using timber coring. Inspectors identified capacity losses, and documented the type size and location of all defects for every timber pile and cap.** The superstructures included steel truss, pin and hanger assemblies, steel built-up sections, rolled steel shapes, military structures, railroad cars, reinforced concrete (RC) channels, RC I-beams, and others. Access methods used for this contract included rope access performed by SPRAT certified inspectors, under bridge inspection vehicles, and more traditional methods (ladders, waders, etc.).

2019-2024 IDIQ. AECOM provided inspection and **LRFR load ratings for 776 bridges** with timber substructures and/or steel superstructures. Element level inspections were required for a majority of these structures to accurately compute the superstructure and substructure load ratings. **Load ratings were performed using AASHTOWare BrR software** with accompanying external calculations.

Under this IDIQ AECOM inspected and developed **LRFR load rating designs of four steel truss superstructures.** Truss ratings included gusset plate rating designs at most locations. Hands-on inspections and as-built plan reviews accurately identified section loss in severely corroded and deteriorated members. AASHTOWare BrR software was used to rate many bridges, while several structures required detailed finite-element analysis to validate load rating factors.



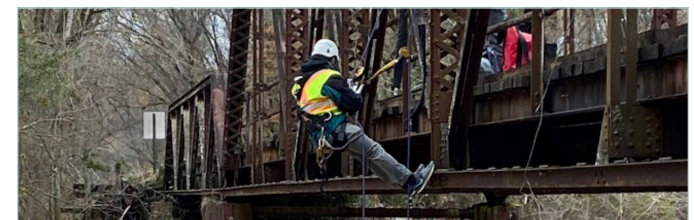
Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- High-volume statewide load rating program
- On-call rapid response for high-priority ratings
- Capacity-loss and defect documentation
- AASHTOWare BrR and external calculations
- Condition-triggered rating updates
- SPRAT rope access and specialized inspection access
- Posting mitigation strategies



Key Personnel

Landon Whitton, Kevin Hagen, Jason Zimpfer, Jared Fattoross, James Martinez, Seth McVey, James Rhoad-Drogalis, Jason Mathers





Firm	AECOM Technical Services, Inc.		Discipline(s)*	Bridge
Project name	Montana Department of Transportation Bridge Load Ratings		Firm responsibility (prime or sub?)	Prime
Project number	N/A		Owner's name	Montana Department of Transportation (MDT)
Project location	Montana Statewide		Owner's Project Manager	Amanda Jackson
Owner's address, phone, email	2701 Prospect Avenue, Helena, MT 59620, 406.475.4500, amjackson@mt.gov			
Services commenced by this firm (mm/yy)	04/14	Total consultant contract cost (\$1,000's)		\$6,546
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$5,854

1,000+

BRIDGES

230+

COMPLEX BRIDGES

steel trusses, suspension, riveted, haunched steel girders, prestressed concrete girders, and continuous concrete slabs

AECOM was selected by MDT as the first-ranked consultant for four consecutive four-year statewide load rating contracts (2014-2017, 2018-2021, 2021-2024, 2025-2029). AECOM was the lead engineer for the live load rating analysis of more than 1,000 bridges for the state of Montana utilizing the **AASHTOWare BrR software** to analyze all structures that the program is capable of modeling. The goal of this project is to provide load rating services on an as-needed basis for all the state's legal loads, including the FAST Act emergency vehicles, EV2 and EV3. AECOM also assisted MDT in mitigating dozens of potential postings on bridges. As a result of excellent performance in AECOM's first contract, additional complex structure work was added, including the analysis of 75 steel truss structures, many of which required gusset plate analysis in accordance with AASHTO standards.

AECOM's load ratings have also included a suspension bridge, steel truss structures, riveted, haunched steel girders, prestressed concrete girders, and continuous concrete slabs. AECOM has also analyzed: timber structures, steel rigid K-frame, curved steel girder, steel girder-floor truss-stringer, rolled steel multi-girder, glulam timber beam, reinforced concrete T-beam, riveted and welded plate girder systems, as well as metal culverts. Unique features in these structures included cantilevered ends of continuous concrete T-beams, concrete slab systems that were integral with substructure units, in-span hinges, and rating of laminated timber decks.

Field measurements and deterioration were considered in the modeling of bridges in the AASHTOWare BrR software. AECOM was responsible for identifying several bugs in the AASHTOWare software which were reported to the software manufacturer. Workarounds were developed to address program limitations, and when the BrR software could not be used, **Midas Civil** was used to perform finite element analysis.



Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- AASHTOWare BrR Rating
- Posting Mitigation Strategies
- High Volume Statewide Load Rating Program
- FEM Analysis for complex structures outside BrR limitations
- On-call rapid response for high-priority ratings



Key Personnel

Brett Canimore, Jason Zimpfer, Jason Mathers, Henry Fix, Sarah Elsworth, Gabriel Umholtz



17. Firm Experience:

Firm	Stantec Consulting Services Inc.		Discipline(s)*	Bridge
Project name	LADOTD Bridge Load Rating Retainer		Firm responsibility (prime or sub?)	Prime
Project number	N/A		Owner's name	LADOTD
Project location	Louisiana Statewide		Owner's Project Manager	Billy Metcalf
Owner's address, phone, email	1201 Capital Access, Baton Rouge, LA 70808 225-379-1741 William.metcalf@la.gov			
Services commenced by this firm (mm/yy)	03/13	Total consultant contract cost (\$1,000's)		\$2,993
Services completed by this firm (mm/yy)	03/17	Cost of consultant services provided by this firm (\$1,000's)		\$2,110



Stantec was responsible for managing and performing **load ratings on 635 statewide on-system bridges using the Load and Resistance Factor Rating (LRFR) method.**

The scope of services included plan and document review, condition verification, load rating analyses, and developing reports with posting recommendations. Structure types included concrete slab spans, prestressed concrete girder spans, structural steel girder units, voided concrete decks, steel trusses, pile bents (timber, concrete, and steel), and concrete hammerhead piers.

During the initial stage of the project, Stantec was responsible for gathering as-built plans, shop drawings, original design calculations (if available), documentation of repairs and rehabilitations, and previous inspection reports.

These documents were reviewed to develop bridge models and determine deficiencies to be included.

Superstructure elements were analyzed using AASHTOWare BrR. Substructure units, such as pile bents and hammerhead piers, were analyzed using RC-Pier and/or STAAD. The models were used to load ratings based on the present condition, capacity, and loads (dead and live) of each bridge.

Over the course of the project, Stantec established several processes to assist with tracking data gathered and the status of each bridge to be load rated. The most effective process was the scheduling of monthly progress meetings with LADOTD representatives to discuss analysis procedures and establish ground rules on assumptions and modeling. Meeting minutes were used to document decisions made, identify action items to assist with data gathering, and adjust the design criteria regularly. In addition to meetings, a bridge database was developed, and updated weekly, to assist with tracking the status of bridge types (slab spans, medium spans, long spans, and complex) and tracking missing and needed information to complete the load rating for each bridge. To improve the checking process, an overall project Quality Management Plan (QMP) was developed that included a set of checklists to be included in the QA/QC documentation.



Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Condition Verification
- Bridge Load Rating
- Existing Document Review
- Bridge Status Log



Key Personnel

Brian Johnson, Kunal Malpani, John Krebs



Firm	Stantec Consulting Services Inc.		Discipline(s)*	Bridge
Project name	Truss Bridges Inspection and Load Rating		Firm responsibility (prime or sub?)	Prime
Project number	NBIS (140)/108451-101000		Owner's name	LADOTD
Project location	Itawamba, Leflore, Quitman and Stone Counties, Mississippi		Owner's Project Manager	Neal Terry
Owner's address, phone, email	401 North West Street, Jackson, MS 39201 601-359-7200 nterry@mdot.ms.gov			
Services commenced by this firm (mm/yy)	12/20	Total consultant contract cost (\$1,000's)		\$461
Services completed by this firm (mm/yy)	04/22	Cost of consultant services provided by this firm (\$1,000's)		\$461

Stantec performed detailed inspections and **load ratings for four steel through trusses**.

MDOT initiated this project to establish process and procedures to assist with future maintenance needs on other trusses. The project's goal was to develop an inspection report, including a load rating summary, that could be used to develop rehabilitation and/or repair plans without performing extensive field work.

MDOT originally selected six trusses; however, due to scope of work modifications two of the bridges were removed. Each of these trusses were constructed in the late 1940s and early 1950s with lengths varying from 120'-1" to 180'-1". A few have suffered damage due to vehicular impacts while in service.

An in-depth, hands-on inspection of every truss member, with the superstructure, was performed. Climbing techniques were implemented when required to access areas unreachable by ladder. Prior to the field work, available data for each bridge was reviewed and used to develop inspection field sketches in the field. Detailed measurements were required to confirm existing shop drawings to ensure the load rating model depicted accurate field conditions. Existing shop drawings, when available, were verified in the field. To supplement existing bridge files, additional CAD sketches were developed based inspection findings.

A final inspection report, which included available data, field observations, and element quantities was delivered to MDOT for each structure.

Using the gathered data and field measurements, models were developed in **AASHTOWare BrR** to perform load ratings. Each truss member, including gusset plates, were analyzed in accordance with the Load Factor Rating (LFR) method for inventory, operating, MDOT legal, and emergency vehicle loads. Once the load rating was accepted by MDOT, the inspection reports were updated to account for any adjustments in the fracture critical member schematic.



Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Bridge Design (New, Rehab, and Repair)
- Bridge Inspections
- Bridge Load Rating
- Construction Support



Key Personnel

Brian Johnson



Firm	Stantec Consulting Services Inc.		Discipline(s)*	Bridge
Project name	Mississippi Complex Bridge Inspection and Load Rating		Firm responsibility (prime or sub?)	Prime
Project number	N/A		Owner's name	Mississippi Office of State Aid Road Construction
Project location	Mississippi Statewide		Owner's Project Manager	David Barrett
Owner's address, phone, email	412 Woodrow Wilson Ave., Jackson, MS 39215 601-359-7129 dbarrett@osarc.state.ms.us			
Services commenced by this firm (mm/yy)	01/2026	Total consultant contract cost (\$1,000's)		\$1,567
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$1,289



The Mississippi Office of State Aid Road Construction implemented a bridge inspection program on bridges that have been identified by county engineers as complex bridges in 2010.

Stantec is responsible for performing bridge inspections and determining **bridge load ratings for complex bridges** located in 11 different counties in Mississippi. An arm's length inspection is required for each bridge component which requires us to use an underbridge access platform truck on some bridges and introduce truss climbing on others. Structure types range from concrete and steel to timber and masonry. All Stantec team leaders are NBI certified.

During field operations, we are responsible for coordinating with local emergency responders and county engineers when traffic is impacted. When a lane or bridge closure is required to perform the inspection, we are responsible for providing the necessary equipment, supplies, and manpower to operate the closure. All closures are in accordance with current MUTCD requirements.

Bridge load ratings are performed in accordance with AASHTO Allowable Stress Design (ASD), Load Factor Rating (LFR) or Load and Resistance Factor Rating (LRFR) requirements. Each structure's inspection and load rating results are documented using AssetWise for that particular year. Stantec has been awarded this project on a two-year term contract since 2011. **Stantec's inventory on the most recent contract exceeded 250 different bridges.**

Scope Relevancy to the LADOTD Load Rating Services Statewide IDIQ

- Bridge Load Rating
- Rope Access Techniques
- Bridge (NBIS), Element Level & Fracture Critical Inspections

Key Personnel

Brian Johnson, John Krebs, Kunal Malpani, Taylor Perkins, Heather Deare



County/Local Bridge
Inspections & Load
Ratings
NDDOT

760+
BRIDGES

Section 18

Relevance to LADOTD Bridge Load Rating
Statewide Services IDIQ: Bridge Rehabilitation,
Preventative Maintenance and Repair, and
Condition Assessment/Load Rating

18. Approach and Methodology

The AECOM team brings significant LADOTD and nationwide bridge load rating experience from our current LADOTD and other similar contracts for numerous state bridge owners throughout the country. We are experienced in managing similar scopes of services and well prepared to support the LADOTD as we bring our local and national local rating expertise to bear in this critical IDIQ contract. The AECOM team brings proven expertise in analyzing bridges of all types and materials with high-volume load rating projects, and a unique feature of our team is our practical approach to exercising engineering judgment to simplify complex, technical problems into manageable solutions.

For the LADOTD Bridge Load Rating IDIQ, AECOM performed LRFR analyses for 120 bridges, including BrR modeling, refined substructure evaluations, site visits, and posting-mitigation recommendations. Additionally, our work rating five movable bridges and evaluating and repairing the collision-damaged LA 641 Bridge over I-10 further demonstrates our familiarity with LADOTD's diverse inventory, procedures, and documentation requirements.



FULL-SPECTRUM EXPERTISE OF CONVENTIONAL, COMPLEX, AND MOVABLE STRUCTURES

Our Project Manager, Brett Canimore, and Louisiana staff are backed by more than 200 AECOM bridge engineers experienced in rating the full range of bridge types, from **concrete slabs, prestressed girders, steel plate girders, and timber structures to complex trusses, segmental, cable-stayed, suspension, and movable bridges, including bascule, swing, and vertical lift spans.** Across Louisiana and more than 43 state and local agency clients nationwide, our integrated network supports consistent engineering judgment, rapid response, and cost-effective delivery at any volume. **WHY IT MATTERS: LADOTD can have high confidence in AECOM's ability to serve as your load rating partner with the capacity and specialized expertise to deliver accurate, defensible ratings for any bridge in the state.**



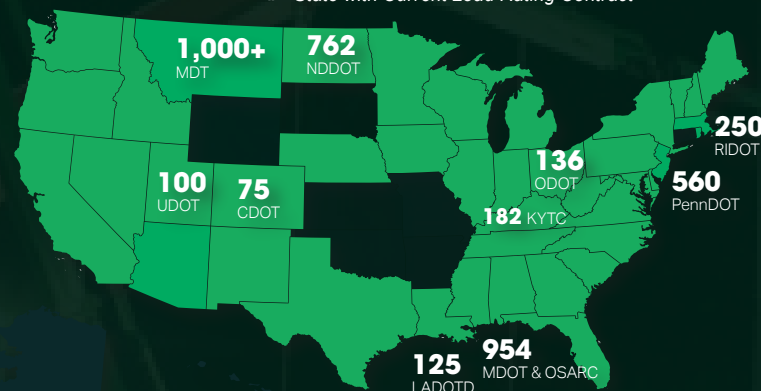
Ted Hickey Bridge

This national experience coupled with our current LADOTD Load Rating IDIQ and movable bridge contract experience and that of our subconsultant, Stantec, will bring the necessary load rating resources and expertise required of this IDIQ Contract. We have selected staff that have significant experience working as a team on similar relevant projects. All are part of AECOM's Bridge Load Rating Practice who routinely work together on typical, atypical, and complex bridge load rating projects.

3,500+ Bridge Load Ratings

in the last 10 years

■ State with Bridge Load Ratings performed by AECOM
State with Current Load Rating Contract



Agency	Load Rating Analysis	Complex Bridges	BrR	Field Measure / Inspection
Colorado DOT	✓		✓	
Delaware River Port Authority	✓	✓	✓	✓
Delaware DOT	✓	✓		✓
Idaho DOT	✓		✓	
Illinois DOT	✓	✓		
LADOTD	✓	✓	✓	✓
Maine DOT	✓			
Mississippi DOT	✓	✓	✓	✓
Montana DOT	✓	✓	✓	✓
New Hampshire DOT	✓			
New Mexico DOT	✓	✓	✓	
North Dakota DOT	✓	✓	✓	✓
Ohio DOT	✓		✓	✓
Pennsylvania DOT	✓	✓	✓	✓
PA Turnpike Commission	✓	✓		✓
Rhode Island DOT	✓	✓	✓	✓



Recent examples of our proposed team working together include:

- **Brett Canimore, PM and Jason Zimpfer, Technical Lead** developed an innovative, streamlined approach using **AASHTOWare BrR** and proprietary spreadsheet solutions for substructure load ratings as part of our current LADOTD Bridge Load Rating IDIQ Contract. They have also delivered **over 1000 bridge load ratings in BrR** on four consecutive statewide bridge load ratings contracts for Montana DOT. Jason also oversees the bridge ratings for AECOM's ongoing LADOTD Movable Bridge contracts.
- **Kevin Hagen and Jason Zimpfer** worked collaboratively to develop streamlined load rating solutions to facilitate the inspections, data collections and **load ratings for more than 950 Mississippi bridges and over 750+ bridges for NDDOT over an 18-month period.**

Task 1: Plan and Document Retrieval and Review

We understand that having the proper documents is critical to performing the work. Our team will complete a thorough investigation of the available project as-built plans, inspection reports, previous rating documents and repair/ rehab details that document the current structure condition. Similar to our current load rating task order for LADOTD, **Sarah Elsawah and the AECOM team will collect project information through sources such as LADOTD's InspectX Database, VPN, FileNet Manager Systems, Inspection File Servers (Section 51 and 25), District and Parish Offices, and from other consultants who may have performed relevant work.** This information will be compiled, organized, and evaluated to identify any missing information and confirm an efficient approach to the load rating efforts.



Task 2: Site Visits

Site visits will be performed, as required, to ensure our ratings consider the current structure field conditions. Our team is prepared to make reasonable engineering assumptions to reduce unnecessary field visits, but we are skilled and experienced in making targeted, detailed site visits to collect essential information for ratings when the situation requires. **Site visits will follow the LADOTD Bridge Inspection Manual (Section 5.16), AASHTO MBE, and the EDSM IV.4.1.2 requirements so data is accurately collected and recorded using DOTD forms, tablets, and mobile devices.**

We understand the importance of developing a project-specific safety plan for obtaining super and substructure conditions. Our safety plan will address the project-site safety concerns, include a traffic control plan (in accordance with the LADOTD MUTCD guidelines), and identify any non-redundant steel tension members. This plan will also identify all field staff, District personnel, contact information, PPE, and local emergency service locations.



ADVANTAGES LADOTD GAINS WITH AECOM'S TEAM

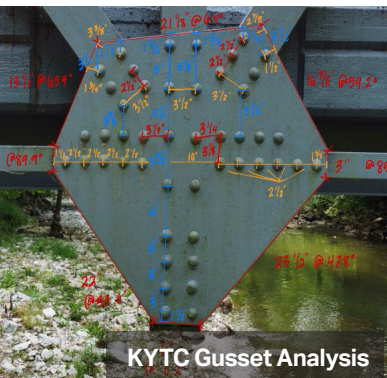
Approximately one-third of our 200 bridge engineers are also certified bridge inspectors (CBI). The wealth of field experience on our team ensures that we can accurately interpret existing field documentation and apply deterioration accurately in our load ratings. Once adopted by LADOTD, AECOM will utilize the new functionality of BrR 7.8 to perform bent cap analysis directly in the same model file used for the superstructure, significantly improving efficiency and consistency. Since AECOM has already been leveraging influence line data from BrR to develop our proprietary bent cap analysis tool, we are well positioned to transition directly into BrR substructure ratings now that the BrR software is equipped for this. **WHY IT MATTERS: Leveraging this new capability for automated permit analysis of bent caps in BrR is also a potential future benefit of this transition.**

Task 3: Analysis and Load Rating

We will use the bridge load rating methods as outlined in the LADOTD Bridge Design and Evaluation Manual (BDEM) Specifications Part II, Vol V, Section 6 – Load Ratings, relevant Bridge Design Technical Memorandum (i.e., 70, 79, 90 and 94) documents, and the AASHTO Manual for Bridge Evaluation. **Ratings will be performed using the AASHTOWare BrR software, coupled with AECOM's proprietary, in-house substructure analysis tool to streamline calculation efforts. For elements which cannot be rated in BrR, influence lines will be provided for critical members.**

As any load rating is developed, our engineers will confirm that the structural analysis considers appropriate material properties, structure age, bridge deficiencies, etc. so that the load rating results will lead to accurate load rating factors that reflect current conditions and loading while not relying on overly conservative assumptions. Our team will develop a LADOTD Project-Specific Bridge Load Rating Protocol that references the previously mentioned load rating specifications and required data/design information. In addition to any field-collected information, our team will confirm material properties and bridge details based on our data collection efforts, LADOTD's Specifications and Standard Plans, as well as any available bridge rehabilitation details.

A majority of the bridge load ratings will be performed using BrR, but other LADOTD-approved software may occasionally be needed, in which cases LADOTD pre-approval will be sought before its use. **Our team has completed thousands of BrR analyses for Louisiana and bridge owners nationwide, spanning virtually every structure type the software can model.** We have developed methodologies to analyze complex and movable LADOTD bridges in BrR that required the deep understanding of the capabilities and limitations of the software that our team possesses.



When BrR software is deemed not feasible or the output results in a posting finding, AECOM will use 3D FEM Software listed on LADOTD's approved software list to develop a refined load rating model. As required, our team will provide influence lines for the critical superstructure and substructure elements. **AECOM has evaluated steel gusset plates on more than 100 truss bridges nationwide and has modeled nonstandard details, unusual geometry, timber substructure elements, metal decks, and a host of other atypical conditions and scenarios.**

Posting Mitigation Strategies

If the initial rating produces a substandard factor, AECOM can apply creative modeling techniques, less conservative assumptions, and 3D FEM analysis to better define structural parameters and deficiencies and determine whether posting is justified. We can also perform bridge instrumentation and load testing as supplemental mitigation strategies.

If a rating results in a posting recommendation, AECOM will provide an "Options Form" outlining schematic recommendations and creative solutions. We will meet with the LADOTD/PM and District staff to explain the rating results, present feasible structure mitigation repair details, and recommend repairs when necessary. Backed by a deep bench of bridge engineers experienced in repair recommendations, rehabilitation design, and construction operations, our team will partner with LADOTD to effectively target problematic conditions and make efficient use of its budget and resources.



ADVANTAGES LADOTD GAINS WITH AECOM'S TEAM

LADOTD will benefit from a team prepared to evaluate its most challenging bridges with AECOM's proven experience modeling severe deterioration and member section loss across the country. This includes nearly 20 continuous years of load rating experience for PennDOT, during which the AECOM team has modeled extreme steel section loss, fatigue cracking, severe reinforced concrete member deterioration, prestressed girder collision damage, and other unique cases. **WHY IT MATTERS: For LADOTD's most challenging and unique situations, Jason Zimpfer and the AECOM team will bring substantial expertise in considering deterioration in load ratings to quickly resolve unusual conditions.**

BrR Work-around Load Rating Strategies

Our bridge load rating experts have also developed an understanding of the BrR software limitations, and AECOM has identified a number of errors and limitations and logged them with the BrR technical support team. We regularly develop and deploy workarounds in BrR to model unusual conditions, such as:

- The use of BrR with custom member property overrides
- The use of spring supports and phantom forces to model bascule span movable bridges
- Modeling geometries that cannot be directly accommodated in BrR by using multiple superstructure definitions with user-controlled point-of-interest overrides.



WHY IT MATTERS: We have a history of finding creative and accurate modeling approaches to fit virtually any bridge system into a BrR model, which allows for a more consistent inventory of load rating data and facilitates the automation of overweight permitting approvals.

Committed to Quality Deliverables

As noted in the LADOTD BDEM Part II, Vol V, Section 6 – Load Ratings and in the RFP, the AECOM team will submit an electronic copy of the final rating package for each bridge that includes:

- PE-stamped and signed Bridge Load Rating Summary Sheet
- Thorough documentation that includes assumptions, material properties, and description of bridge condition
- Critical rating values and rating output of every rated member
- Influence lines for critical elements not able to be analyzed in BrR
- Editable load rating calculations and design files
- BrR and/or FEM design models; relevant bridge plans and inspection report information
- "Options Form" and schematic mitigation recommendations.

AECOM will provide accurate and consistent quality load rating reports by first collaborating with LADOTD staff to confirm the calculation format and report templates to set a baseline for all reports and allow for efficiency and consistency.



Calculations, model input, and final reports undergo a systematic internal line-by-line QC review, followed by completion of a bridge rating QC checklist as part of our ISO 9001 certified QA/QC program. A final internal QA review confirms results are reasonable and the final product meets LADOTD's standards. A detailed quality plan will be submitted within 10 business days NOA.

Task 4: Training

Our senior staff, including **Brett Canimore, PE** and **Henry Fix, PE, CBI**, bring proven experience developing training coursework for bridge clients. **Henry contributed to and led PennDOT's Load Rating Analysis Course, providing directly relevant expertise for developing complex bridge load rating training aligned with the guidelines established in the LADOTD BDEM and BDTM 96, Load Rating, Posting and Strengthening Procedures.** Backed by a deep bench of experienced BrR users, AECOM is well-positioned to deliver expert training virtually or in person, through live instruction or on-demand coursework. We can further enhance delivery through AECOM University, our fully functional internal training platform that manages registration, reminders, course delivery, completion tracking, and the issuance of approved PDH credits.

Task 5: Overweight Permit Review

We are ready to develop processes, procedures, and tools to facilitate automated overweight vehicle permit evaluation for LADOTD. **Technical Lead Jason Zimpfer, PE, CBI**, coordinates the analysis and review of overweight permits for the New Jersey Turnpike Authority (NJTA), where AECOM evaluates permit vehicles using existing batch-run BrR files. Using rapid-response permit evaluation with existing BrR rating files, batch analysis, and quick turnaround times, AECOM's team can provide the same service to LADOTD for any overweight permit evaluations that may be required.

Tasks 6 and 7: Review, Update and Correct BrR Files/Rating Review

The AECOM team has provided QA/QC reviews for bridge owners around the country, including development of a QA manual for Rhode Island DOT and reviews of consultant work for inspections and bridge load ratings for the NJTA's 1,200-bridge inventory. We have a well-established network of senior bridge engineers with BrR QC experience and are prepared to serve in a QA/QC role to review consultant work products to supplement LADOTD staff. A specialty of our team is the efficient identification and troubleshooting of problematic rating models. We take a practical approach that combines our thorough understanding of applicable codes and our experience with a wide variety of bridge configurations, deterioration, and modeling techniques to solve both common and unique problems with existing bridge ratings.

Task 8: Miscellaneous Rating Work



We understand LADOTD would like to explore the implementation of an automated permitting system.

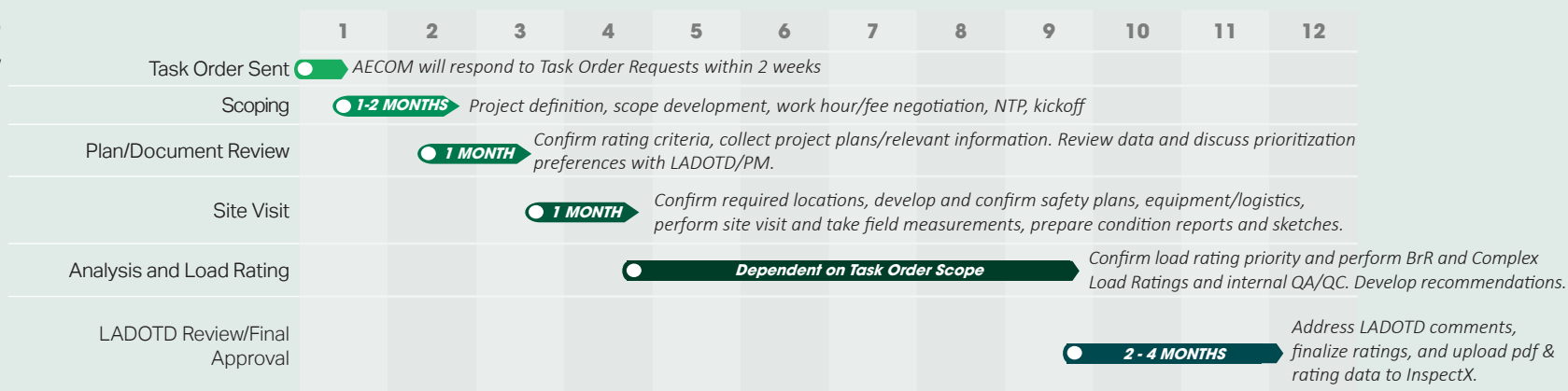
Based on our experience evaluating permit vehicles for several bridge owners, our current work performing batch permit evaluations for NJTA, and recent experience developing customized, automated permit evaluation tools for signature structures, including the Gordie Howe International Bridge, we can efficiently assist in any tasks to support this automated permitting implementation. AECOM can take on any rating-related tasks, including fast-track or emergency work.

Project Schedule

To demonstrate our approach to a sample task order assignment, we have presented a sample bridge load rating task order (Figure 1).

Upon NTP, our team will schedule a project kickoff to communicate: Assignments, LADOTD / PM Coordination, Project Schedule and Confirmation of Scope of Work, Communication Protocols, and Meeting Requirements.

Figure 1: Example Task Order Timeline for the Bridge Load Rating IDIQ





Complex Bridge Load Rating Experience

Nationwide

Frederick Douglass
Memorial Bridge WMATA

ODOT Brent Spence

MnDOT High Street Bridge

Sections 19-23

**Relevance to LADOTD Bridge Load Rating
Statewide Services IDIQ:** Bridge Condition
Assessment/Load Rating for Truss, Span, Cable-
Stay, Suspension, and other Complex Structures



19. Workload:

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

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;

3) the work has not yet been performed and invoiced;

4) the work is not currently suspended for an indefinite period of time; and

5) only the Work Type Discipline(s) represented in Section 12 of this document are the Work Type Discipline(s) that need to be represented on this table for each applicable firm. Workload associated with any other discipline(s), even if active and otherwise meeting the criteria above, need not be reported in this table.

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

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
AECOM Technical Services, Inc.	Bridge	H.009859.5	TO#1 Bridge Load Rating Services	\$72,750
		H.015603.5	LA 641 Bridge Load Rating Services	\$1,143
		H.015519	Smith Road over Red Chute Bayou	\$506
		H.001970	LA 561 Final Design	\$129,023
		H.016490	LA 3032 Bridge Resurfacing	\$273,725
		H.004273	Task 8	\$24,100
		H.015934	Task 301	n/a
		H.015934	Task 408	\$79,141
		H.011969.5	Ted Hickey Contract 1 for Movable Bridges (LA 1264)	\$138,776
		H.012044.5	Grand Lake Contract 1 for Movable Bridges (LA 384)	\$247,131
		H.011988.5	Duperier Contract 1 for Movable Bridges (LA 86)	\$215,814
		H.011973.5	Dularge Contract 1 for Movable Bridges (LA 315)	\$225,299
		H.012737.5	Bayou Bonfouca Contract 1 for Movable Bridges (LA 433)	\$233,992
		H.000445	US 190: UPRR Overpass near Opelousas	\$419,945
		H.009730.5	In-Depth Bridge Inspection – TO#1, #2, #3 & #4	\$2,813,565
		H.016315	LA 463 Drain Bridge	\$2,484
		H.016323	LA 37 Drain Bridge	\$5,734
		H.016324	LA 1047 Drain Bridge	\$15,065
		H.016326	LA 36 Drain Bridge	\$5,074



Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Stantec Consulting Services Inc.	Bridge	440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Structure & Bridge	\$80,924
		4400022901 H.011094.5 & H.012005.5	LA 3094: Hearne Ave. Bridge and US 80: KCSRR Overpass (HBI) [Caddo Parish]; Bridge	\$736,773
		4400023922 H.016312	IDIQ Contract for Bridge Preservation; LA 3116: Creek Bridges [Acadia Parish]	\$34,367
		4400023922 H.016319	IDIQ Contract for Bridge Preservation; LA 542: Creek Bridges [Jackson Parish]	\$21,807
		4400023922 H.012071.5, T.O. 4	IDIQ Contract for Bridge Preservation; US 51: Yellow Water River Bridge [Statewide]	\$161,143
		4400023922 H.016327	IDIQ Contract for Bridge Preservation; LA 792: Drain [Bienville Parish]	\$35,729
		4400023922 H.016329	IDIQ Contract for Bridge Preservation; LA 830-6: Creek [Morehouse Parish]	\$37,046
		4400023922 H.016330	IDIQ Contract for Bridge Preservation; LA 343: Creek [Vermilion Parish]	\$111,259
		4400023922 H.016331	IDIQ Contract for Bridge Preservation; LA 4: Drain [Bienville Parish]	\$37,581
		4400023922 H.016332	IDIQ Contract for Bridge Preservation; LA 520: Drain [Claiborne Parish]	\$39,053
		4400023922 H.016333	IDIQ Contract for Bridge Preservation; LA 95: Bayou [Evangeline Parish]	\$110,688
		4400022582 H.012011	Contract for Replacement of Eight Bridges; LA 173 and LA525: Creek Bridges [Caddo Parish]	\$17,069
		4400022582 H.012029	Contract for Replacement of Eight Bridges; US 80: Creek Bridges [Bienville and Webster Parishes]	\$75,850
		4400022582 H.012036	Contract for Replacement of Eight Bridges; US 80: Creek Bridges [Richland Parish]	\$101,200
		4400022582 H.012037	Contract for Replacement of Eight Bridges; US 63 and LA 2: Creek Bridges [Union Parish]	\$3,577
		4400027651	IDIQ Contract for Bridge Load Rating Services (Sub to Modjeski and Masters) [Statewide]	\$555,737



Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Stantec Consulting Services Inc.	Bridge	4400029196 H.016255.5	IDIQ Contract for Engineering and Technical Support Services for Critical Projects; LA 1: WGS Riverplex RR Overpass [Ascension Parish]	\$433,903
		4400029196 H.016496.6	IDIQ Contract for Engineering and Technical Support Services for Critical Projects; DIST02/61/62 Bridge Bundle SFY25-26 [Statewide]	\$134,658
		4400029196 H.015376.5	US 80: Bayou Dorcheat, Relief Bridges [Statewide]; Bridge	\$474,161



20. Certifications/Licenses:

3/21/26, 2:48 PM Commercial - Search

**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: 11/21/2025
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)
Agent: C T CORPORATION SYSTEM

https://coraweb.sos.la.gov/CommercialSearch/CommercialSearchDetails_Print.aspx?CharterID=473278_46FDB369EE

1/2

3/21/26, 2:48 PM Commercial - Search

Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment Date: 12/20/1996

Officer(s) Additional Officers: No

Officer: ALLISON HALL Title: Director, Treasurer Address 1: 300 SOUTH GRAND AVENUE Address 2: 9TH FLOOR City, State, Zip: LOS ANGELES, CA 90071
Officer: ARMOND TATEVOSSIAN Title: Secretary, Director Address 1: 300 SOUTH GRAND AVENUE Address 2: 9TH FLOOR City, State, Zip: LOS ANGELES, CA 90071
Officer: KARL JENSEN Title: Director Address 1: 300 SOUTH GRAND AVENUE Address 2: 9TH FLOOR City, State, Zip: LOS ANGELES, CA 90071
Officer: MATTHEW CRANE Title: Director, President Address 1: 300 SOUTH GRAND AVENUE Address 2: 9TH FLOOR City, State, Zip: LOS ANGELES, CA 90071

Amendments on File (5)

Description	Date
Stmt of Chg or Chg Prin Bus Off	1/29/2008
Name Change	12/8/2008
Stmt 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](#)

https://coraweb.sos.la.gov/CommercialSearch/CommercialSearchDetails_Print.aspx?CharterID=473278_46FDB369EE

2/2

Certificate of Completion presented to <i>Jonathan McDowell</i> for completing the Traffic Engineering Analysis Process & Report Module 1	
Date: September 5, 2018 Location: Baton Rouge, Louisiana	Professional Development Hours (PDHs) Awarded: 2
<i>[Signature]</i> Authorized Instructor	<i>[Signature]</i> Authorized Instructor

LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

 Authorized Instructor	 Authorized Instructor	 Authorized instructor

Aly Colone
 Authorized Instructor

Dan Hottel
 Authorized Instructor

Rob Bunkle
 Authorized Instructor

LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

John J. Albano
Authorized Instructor

John H. H.
Authorized Instructor

Robert E. H.
Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & INFRASTRUCTURE

John J. Colburn
Authorized Instructor

David Holt
Authorized Instructor

Robert B. Smith
Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & INFRASTRUCTURE





21. QA/QC Plan:

Section left intentionally blank.





22. Sub-consultant information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Stantec Consulting Services Inc.	1200 Brickyard Lane, Suite 400 Baton Rouge, LA 70802	Brian Johnson, PE Brian.johnson2@stantec.com	225.215.5130

8/21/26, 2:53 PM Commercial - Search

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**
STANTEC CONSULTING SERVICES INC. Business Corporation (Non-Louisiana) ALBANY Active

Previous Names
STANTEC CONSULTING GROUP INC. (Changed: 4/12/2005)
STANTEC CONSULTING GROUP, INC. (Changed: 4/12/2005)
THE SEAR-BROWN GROUP, INC. (Changed: 4/12/2005)

Business: STANTEC CONSULTING SERVICES INC.
Charter Number: 34554273F
Registration Date: 3/17/1997

Domicile Address
80 STATE STREET
ALBANY, NY 12207

Mailing Address
10220 - 103 AVENUE NW
SUITE 300
EDMONTON, AB, T5J 0K4
CANADA

Principal Business Office
410 17TH STREET
SUITE 1400
DENVER, CO 80202

Registered Office in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801

Principal Business Establishment in Louisiana
1340 POYDRAS STREET
SUITE 1420
NEW ORLEANS, LA 701121274

Status
Status: Active
Annual Report Status: In Good Standing
Qualified: 3/17/1997
Last Report Filed: 3/8/2026
Type: Business Corporation (Non-Louisiana)

https://coraweb.sos.la.gov/CommercialSearch/CommercialSearchDetails_Print.aspx?CharterID=478096_826293AFB7 1/3

3/21/26, 2:53 PM Commercial - Search

Registered Agent(s)

Agent: CORPORATION SERVICE COMPANY
Address 1: 450 LAUREL STREET, 8TH FLOOR
City, State, Zip: BATON ROUGE, LA 70801
Appointment Date: 4/12/2005

Officer(s) Additional Officers: No

Officer: SUSAN REISBORD
Title: Director
Address 1: 1060 ANDREW DRIVE
Address 2: SUITE 140
City, State, Zip: WEST CHESTER, PA 19308

Officer: JEFFREY P STONE
Title: Director
Address 1: 61 COMMERCIAL STREET
Address 2: SUITE 100
City, State, Zip: ROCHESTER, NY 14614

Officer: GORDON A JOHNSTON
Title: President
Address 1: 300-10220 103 AVENUE NW
City, State, Zip: EDMONTON, AB, T5J 0K4
Country: CANADA

Officer: CHRISTOPHER O HEISLER
Title: Secretary
Address 1: 300-10220 103 AVENUE NW
City, State, Zip: EDMONTON, AB, T5J 0K4
Country: CANADA

Officer: VITO CULMONE
Title: Treasurer
Address 1: 200-325 25 STREET SE
City, State, Zip: CALGARY, AB, T2A 7H8
Country: CANADA

Mergers (6)

Filed Date	Effective Date:	Type	Charter#	Chater Name	Role
4/12/2005	4/12/2005	MERGE	34554273F	STANTEC CONSULTING SERVICES INC.	SURVIVOR
			35478510F	STANTEC CONSULTING SERVICES INC.	NON-SURVIVOR
8/4/2010	8/4/2010	MERGE	34554273F	STANTEC CONSULTING SERVICES INC.	SURVIVOR
			35553355Q	INDUSTRY AND ENERGY ASSOCIATES LLC	NON-SURVIVOR
8/20/2010	8/20/2010	MERGE	34554273F	STANTEC CONSULTING SERVICES INC.	SURVIVOR
			36297376F	STANTEC CONSULTING, INC.	NON-SURVIVOR
1/26/2012	1/26/2012	MERGE	34554273F	STANTEC CONSULTING SERVICES INC.	SURVIVOR
			34476723F	STANTEC CONSULTING CORPORATION (US)	NON-SURVIVOR
6/5/2012	6/5/2012	MERGE	34554273F	STANTEC CONSULTING SERVICES INC.	SURVIVOR

https://coraweb.sos.la.gov/CommercialSearch/CommercialSearchDetails_Print.aspx?CharterID=478096_826293AFB7 2/3



23. Location:

Section left intentionally blank.

