Submitted To: Louisiana Department of Transportation and Development



DOTD Form 24-102 Qualifications Statement IDIQ Contract for In-Depth Bridge Inspections, Statewide

Contract Nos. 4400029683, 4400029684 and 4400029685

Submitted By:

TRC

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



August 8, 2024

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

Re: Professional Engineering and Related Services IDIQ Contract for In-depth Bridge Inspections, Statewide Contract Nos.: 4400029683, 4400029684 and 4400029685

Dear Project Evaluation Team Members,

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

- Accomplished Project Manager with more than 40 years of bridge-related engineering experience who has led the inspection, load rating and rehabilitation design of numerous off-system and on-system bridges of varying complexity for the LA DOTD, including complex bridges, movable bridges and major river crossing structures. He is an 18-year veteran of TRC and has a clear understanding of your needs and expectations.
- Well-staffed Baton Rouge office which has successfully delivered challenging and complex projects for the LA DOTD over the past 19 years, including bridge inspection, load rating and design assignments. The majority of the work required under this contract will be performed right here in Louisiana, with additional support provided by qualified staff in our additional offices who have also worked on assignments for the LA DOTD.
- As documented herein, our Baton Rouge staff are supported by the resources and technical expertise of **six respected subconsultant partners** offering the experience and technical expertise needed to deliver all aspects of the scope of services associated with this contract.
- In-depth experience with the LA DOTD's policies, procedures and expectations for this contract having served as a subconsultant on three previous IDIQ Contracts for In-Depth Inspection. Thus, we require no learning curve and are experienced with using InspectX software and SNBI coding.
- Demonstrated track-record of success with the delivery of IDIQ contracts for the LA DOTD involving bridge inspection, load rating and bridge rehabilitation design.

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

Sincerely,

Durk H Krone

Durk H. Krone, P.E., Principal / Project Manager

(Revised January 1, 2023)

DOTD FORM: 24-102 PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

| 1. | Contract title as shown in the advertisement | IDIQ Contract for In-Depth Bridge Inspection, Statewide |
|----|---|---|
| 2. | Contract number(s) as shown in the advertisement | 4400029683, 4400029684, and 4400029685 |
| 3. | State Project Number(s), if shown in the advertisement | N/A |
| 4. | Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law) | TRC Engineers, 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) | License # EF.0003249 |
| 6. | Prime consultant mailing address | 4545 Sherwood Common Blvd., Building 3, Suite A Baton Rouge, LA 70816 |
| 7. | Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria) | See Item 6 above |
| 8. | Name, title, phone number, and email address of prime consultant's contract point of contact | Durk Krone, PE, Vice President (225) 229-2968 e-mail: <u>dkrone@trccompanies.com</u> |
| 9. | Name, title, phone number, and email address of the official with signing authority for this proposal | Durk Krone, PE, Vice President (225) 229-2968 e-mail: <u>dkrone@trccompanies.com</u> |

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

| 10. This is to certify that all information contained herein is accurate and true, and that the tea | m |
|---|---|
| presently has sufficient staff to perform these services within the designated time frame. | Зу |
| 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 al | so ()1 9/ 7/ |
| certifies and agrees that the following information is correct: In preparing its response, t | he The Arone |
| proposer has considered all proposals submitted from qualified, potential subcontractors a | nd Alure in the |
| suppliers, and has not, in the solicitation, selection, or commercial treatment of a | y Signature above shall be the same person listed |
| subcontractor or supplier, refused to transact or terminated business activities, or taken oth | er in Section 9: |
| 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 a | ny August 8, 2024 |
| person or other entity for reporting such refusal, termination, or commercially limiting action | ns. Date: |
| 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. | |
| 11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this Firm (a) | $\mathbf{Eirm}(\mathbf{a})$ |
| advertisement, indicate which firm(s) will be used to meet the DBE goal | <u>FIIII(\$) :%:</u> |
| and each firm(s)' percentage. | IC. 2% |

<u>12. Past Performance Evaluation Discipline Table:</u>

| Past Performance Evaluation Discipline(s) | % of Overall Contract | TRC | B&N | Collins | WJE | NTBA | USI | KTA-Tator | Each Discipline must total to 100% |
|---|--------------------------|-----|-----|---------|-----|------|------|-----------|------------------------------------|
| Bridge | 95% | 54% | 25% | 6% | 12% | | | 3% | 100% |
| Traffic | 2% | | | | | | 100% | | 100% |
| Survey | 3% | | | 30% | | 70% | | | 100% |
| Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant. | | | | | | | | | |
| Percent of Contract | 100% | 51% | 24% | 7% | 11% | 2% | 2% | 3% | 100% |

13. Firm Size:

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|---|-------------------------|--|---|
| TRC Engineers, Inc. | Principal | 1 | 3 |
| | Supervisor - Engineer | 6 | 15 |
| 7 11.00 | Supervisor - Other | 1 | 1 |
| | Engineer | 10 | 30 |
| | CADD Technician | 2 | 7 |
| | Administrative | 1 | 4 |
| | Engineer - Other | 3 | 34 |
| | Inspector - Bridge | 4 | 7 |
| Burgess & Niple, Inc. | Engineer | 3 | 3 |
| BURGESS & NIPLE | Engineer – Other | 18 | 18 |
| | Principal | 1 | 2 |
| | Engineer Intern | 3 | 4 |
| | Inspector – Bridge | 3 | 3 |
| | CADD – Operator | 1 | 2 |
| Collins Engineers South, Incorporated COLLINS ENGINEERS | Inspector-Bridge | 13 | 83 |
| Wiss, Janney, Elstner Associates, Inc. | Principal | 3 | 76 |
| W/IE | Professional | 2 | 138 |
| | Senior Technician | 1 | 32 |
| | Supervisor - Other | 4 | 213 |
| | Inspector - Bridge | 2 | 3 |
| NTB Associates, Inc. | Principal | 1 | 1 |
| NTDA | Surveyor | 3 | 6 |
| NIBA | Supervisor - Other | 1 | 3 |
| SURVEY, DESIGN, BUILD, SUCCEED. | CADD Technician | 1 | 6 |
| | Technician | 1 | 1 |
| | CADD Drafter | 2 | 6 |

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|---------------------|-------------------------|--|---|
| | Party-Chief | 3 | 18 |
| | Instrument-Man | 3 | 7 |
| | Rodman | 3 | 10 |
| Urban Systems, Inc. | Supervisor-Eng | 1 | 2 |
| | Engineer | 2 | 3 |
| | Engineer Intern | 1 | 2 |
| | CAD Technician | 1 | 2 |
| | Engineering Aide | 1 | 2 |
| KTA-Tator, Inc. | Supervisor-Other | 3 | 4 |
| KTA | | | |

14. Organizational Chart:

LEGEND

- Burgess & Niple, Inc.
- KTA-Tator, Inc.
- Collins Engineers South, Inc.
- NTB Associates, Inc.
- Urban Systems Associates, Inc. (DBE)
- Wiss, Janney, Elstner & Associates, Inc.

James "Corey" Musselman

Rov Forsyth, PE, CWI ● �√ ④

Russell Richard, EIT ● � √ ● Tanner Harmon ●√

KEY STAFF LEGEND

- ATSSA Traffic Control Supervisor
- ATSSA Traffic Control Technician
- ✓ FHWA Approved Bridge Inspection Course
- **†** FHWA Fracture Critical Inspection Course
- FHWA Underwater Inspection/ADCI Cert

Load Rating

- * TEPR Certificates
- Satisfies 1 or more MPRs. Supporting license/certs attached in Section 20.

James "Corey" Musselman

James "Tyler" Boyd

A FAA Drone License



Task Leader **Task Leader** MICHAEL SCHREPFER √ † ♦ ◉ ▲ XIANZHI (SAGE) LIU, PE MICHAEL PAUL, PE + Task Leader BEAU KAMRATH ● ✓ ● � A Structural (Fixed & Movable) Bridge (Team Leader) Inspectors **Bridge Inspectors Key Support Staff** Mark Castay, PE 🗸 🔶 🔘 Lisa Brown, EI, SPRAT III √ ④ Nichole Caiazzo, PE Mark Castay, PE ✓ ♦ ④ Diver Bridge (Team Leader) Xianzhi (Sage) Liu, PE Denny Dispennette, PE √ † ⊙ Will Nowlin ✓ ④ Dong Wang, PhD, PE Inspectors Dong Wang, PhD, PE Benjamin Medlin √ ⊙ Christopher Hay, PE à⊙ Christopher Hay, PE à⊙ Brian Dilworth, PE ● √ ● � Paul Misch, PE ✓ Craig Jacob, PE √ † ⊙ Sharath Chandra Ranganath, PE √ ◉ Craig Jacob, PE √ † ⊙ Joshua Johnson, PE ●√† ● ❖ Christopher Hay, PE √ † ⊙ Cody Shields, PE √ ⊙ Brittany Smith, PE ✓ Denny Dispennette, PE √ † ⊙ Matthew Rogers, PE, CWI ● √ ● � ٨ Craig Jacob, PE √ † ⊙ Curtis Wood, PhD, PE √ ⊙ Brittany Smith, PE ✓ Andrew Baldwin, EIT ● 🗸 ④ 🛠 Mechanical/Electrical Edward Cinadr, PE, SPRAT II ●√†⊙ Curtis Wood, PhD, PE √ ⊙ Russell Richard, EIT • 🗸 🛠 Meiwen Guo, PhD, PE Brendan Prendeville, PE, SPRAT II ●√†● Inspectors (Movable) Roy Forsyth, PE, CWI ● ✓ � Michael Kronander, PE, SPRAT III ● ✓ † ● ▲ John Williams, PE (Mechanical) ● Nichole Caiazzo, PE Andrew Goodrich, PE, SPRAT II ● ✓ † ④ Ralph Giernacky, PE (Mechanical) ● **Diver Bridge Inspectors** Mechanical/Electrical (Movable) James Appler, PE, SPRATI ●✓♦†●▲ Gareth Rees, PE (Electrical) • Taylor Arnold, EIT ● √ ④ � John Williams, PE (Mechanical) • Jonathan McGormley, PE ●√ † ♦ ④ Lin Xu, PE (Electrical) Caroline Knapp, EIT ● √ ④ � Ralph Giernacky, PE (Mechanical) Steven Lauer, SE, PE ●√†● Callen Papineau, EIT ● √ ● ❖ Gareth Rees, PE (Electrical) Curtis Schroeder, PhD, SE, CWI, ASNT 2 ● ✓ † ● Desmond Castillo ● ✓ ● � A Lin Xu, PE (Electrical) Caleb Klein **Traffic Control Device Plans Topographic Surveys Underwater Imaging NDE** Testing **UAS (Remote Pilot) Task Leader** Task Leader Task Leader **Task Leader** Task Leader BRYAN BUNCH, PLS **GRANT GILLEON, PLS** NICHOLE STEWART, PE, PTOE •*• JOHN KINSEY, CWI, ASNT 3 💿 MICHAEL SCHREPFER √ † ♦ ◉ ▲ **Key Support Staff Key Support Staff Key Support Staff** Key Support Staff **Key Support Staff** Alison Michel, PE, PTOE, PTP, RSP2i •* Paul Rossini, PLS Paul Rossini, PLS James Kretzler, CWI, ASNT 3 🔍 🖲 Beau Kamrath, PE ●√ ● � ▲ Christine Darrah, PE •* 🔶 Mike King, PLS • • Mike King, PLS • • Robert Gessel, CWI, ASNT 3 • • Will Wales Will Wales Charles Schroeder, PhD, CWI, SE, ASNT 2 ●√†





Coatings Assessment

Task Leader **ROBERT LANTERMAN, NACE, SSPC Key Support Staff** Jayson L. Helsel, PE, NACE, SSPC • •

Matthew Rogers, PE ● √ ④ � ▲ Desmond Castillo ● ✓ ④ � ▲ James Drew Appler, PE ●✓♦†⊙▲ Michael Kronander, PE ● ✓ ⊙ ▲

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15. Minimum Personnel Requirements:

| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|--|--|------------------|--|------------------------|---|
| 1 | Durk Krone, PE | TRC Engineers | PE - #PE.0031955 – Civil | LA | 03-31-2026 |
| 2 | Durk Krone, PE | TRC Engineers | PE - #PE.0031955 – Civil | LA | 03-31-2026 |
| 3 | Durk Krone, PE | TRC Engineers | PE - #PE.0031955 - Civil | LA | 03-31-2026 |
| | Michael Schrepfer | TRC Engineers | FHWA-NHI-130055/130053 FHWA-NHI-130078 | N/A | (130053) 06-2029 |
| | Mark Castay, PE | TRC Engineers | PE - #PE.0039430 - Civil FHWA-NHI-130055/130053 | LA | 09-30-2025 (PE) (130053) 12-2025 |
| | Denny Dispennette, PE | TRC Engineers | PE - #PE.0044141 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 03-31-2026 (PE) (130053) 12-2026 |
| | Christopher Hay, PE | TRC Engineers | PE - #PE.0043025 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 03-31-2026 (PE) (130053) 06-2026 |
| | Craig Jacob, PE | TRC Engineers | PE - #PE.68866 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | ОН | 12-31-2025 (PE) (130053) 05-2027 |
| 4 | Curtis Wood, PhD, PE | TRC Engineers | PE - #PE.0046293 – Civil FHWA-NHI-130056 | LA | 03-31-2026 (PE) (130056) 12-2027 |
| | Cody Shields, PE | TRC Engineers | PE - #PE.0044457 – Civil FHWA-NHI-130055/130053 | LA | 09-30-2026 (PE) (130053) 02-2029 |
| | Edward Cinadr, PE | Burgess & Niple | PE - #PE.0035390 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 09-30-2024 (PE) (130053) 02-2026 |
| | Brendan Prendeville, PE | Burgess & Niple | PE - #PE.0045371 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 09-30-2025 (PE) (130053) 02-2026 |
| | Michael Kronander, PE | Burgess & Niple | PE - #PE.0042172 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078A | LA | 03-31-2026 (PE) (130053) 03-2025 |
| | Andrew Goodrich, PE | Burgess & Niple | PE - #023343 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | WV | 12-31-2024 (PE) (130053) 10-2024 |

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| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|--|--|-------------------------|--|------------------------|--|
| | James Appler, PE | Burgess & Niple | PE - #PE.0047675 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 09-30-2025 (PE) (130053) 03-2026 |
| | Jonathan McGormley, PE | Wiss, Janney, Elstner | PE-#PE.0043912 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 | LA | 03-31-2026 (PE) (130053) 10-2024 |
| | Steven Lauer, SE, PE | Wiss, Janney, Elstner | PE - #062068057 – Engr. FHWA-NHI-130055/130053 FHWA-NHI-130078 | IL | 11-30-2025 (PE) (130053) 12-2025 |
| | Curtis Schroeder, PhD, SE, CWI, ASNT 2 | Wiss, Janney, Elstner | PE – 081008638 – Structural FHWA-NHI-130055/130053 FHWA-NHI-130078 | IL | 11-30-2024 (SE) (130053) 06-2029 |
| | Lisa Brown, EI | TRC Engineers | FHWA-NHI-130055 | N/A | 07-2027 |
| _ | Will Nowlin | TRC Engineers | FHWA-NHI-130055/130053 | N/A | (130053) 02-2029 |
| 5 | Benjamin Medlin | TRC Engineers | FHWA-NHI-130055/130053 | N/A | (130053) 04-2027 |
| | Sharath Chandra Ranganath, PE | TRC Engineers | FHWA-NHI-130056 | N/A | 09-2027 |
| 6 | Robert Lanterman | KTA-Tator | SSPC Protective Coating Specialist - #2015-820-136 | N/A | 12-31-2027 |
| U | Jayson Helsel, PE | KTA-Tator | SSPC Protective Coating Specialist - #2011-930-152 | N/A | 12-31-2027 |
| | John Kinsey, CWI | TRC Engineers | ASNT Level III - #19992 | N/A | 12-31-2028 |
| 7 | Robert Gessel, CWI | Wiss, Janney, Elstner | ASNT Level III - #4568 | N/A | 11-2026 |
| | James Kretzler | KTA-Tator | ASNT Level III - #186946 | N/A | 10-2025 |
| Q (*) | Beau Kamrath | Collins Engineers South | PE - #PE.0046453 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 FHWA-NHI-130091 ADCI SS Air Diver - #60307 | LA | (PE) 09-30-2024 (130053) 02-2027 (ADCI) 10-03-2024 |
| | Brian Dilworth, PE | Collins Engineers South | PE - #062-063791 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 FHWA-NHI-130091 ADCI SS Air Diver - #51622 | IL | (PE) 11-30-2025 (130053) 02-2025 (ADCI) 05-11-2025 |



| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|--|--|-------------------------|---|------------------------|--|
| | Joshua Johnson, PE | Collins Engineers South | PE - #27049 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 FHWA-NHI-130091 ADCI SS Air Diver - #40245 | KY | (PE) 06-30-2025 (130053) 01-2028 (ADCI) 05-11-2026 |
| | Matthew Rogers, PE, CWI | Collins Engineers South | PE - #36345 – Civil FHWA-NHI-130055/130053 FHWA-NHI-130078 FHWA-NHI-130091 ADCI SS Air Diver - #61534 | KY | (PE) 06-30-2026 (130053) 01-2028 (ADCI) 07-29-2025 |
| | Andrew Baldwin, EIT | Collins Engineers South | EIT - #74669 – Civil FHWA-NHI-130055 FHWA-NHI-130091 ADCI SS Air Diver - #66052 | TX | (PE) 12-02-2029 (130055) 12-2024 (ADCI) 05-09-2028 |
| | Taylor Arnold, EIT | Collins Engineers South | FHWA-NHI-130055 FHWA-NHI-130091 ADCI SS Air Diver - #67791 | N/A | (130055) 09-2026 (ADCI) 06-02-2029 |
| | Caroline Knapp, EIT | Collins Engineers South | FHWA-NHI-130055 FHWA-NHI-130091 ADCI EL Tender/Diver - #66128 | N/A | (130055) 03-2027 (ADCI) 05-31-2025 |
| 9 (*) | Callen Papineau, EIT | Collins Engineers South | FHWA-NHI-130055 FHWA-NHI-130091 ADCI EL Tender/Diver - #64580 | N/A | (130055) 09-2026 (ADCI) 07-06-2026 |
| | Desmond Castillo | Collins Engineers South | FHWA-NHI-130091 ADCI SS Air Diver - #66071 | N/A | (ADCI) 05-10-2028 |
| | Caleb Klein | Collins Engineers South | FHWA-NHI-130091 ADCI EL Tender/Diver - #47277 | N/A | (ADCI) 11-20-2025 |
| | Grant Gilleon, PLS | NTB Associates | N/A | N/A | N/A |
| 10 | Will Wales | NTB Associates | N/A | N/A | N/A |
| 10 | Roy Forsyth, PE, CWI | Collins Engineers South | N/A | N/A | N/A |
| | Russell Richard, EI | Collins Engineers South | N/A | N/A | N/A |



| MPR No. Do not insert wording from ad | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|--|--|------------------|--|------------------------|---|
| | Brian Bunch, PLS | NTB Associates | PLS - #PLS.0005014 | LA | 03-31-2026 |
| 11 | Paul Rossi, PLS | NTB Associates | PLS - #PLS.0004731 | LA | 09-30-2024 |
| | Mike King, PLS | NTB Associates | PLS - #PLS.0005127 | LA | 09-30-2025 |

(*) NOTE: All personnel listed under MPR No. 8 also qualify for MPR No. 9 by virtue of the overlapping MPR requirements.



| Firm employed by TRC Engineers, Inc. | | | | | | | |
|--------------------------------------|---|---|--|--|--|--|--|
| Name Durk Kr | one, P.E. | | Years of experience with this employer 19 | | | | |
| Title Vice Pres | sident | | Years of experience with other employer(s) | 21 | | | |
| Degree(s) / Years | / Specialization | | M.S. / 1984 / Civil Engineering | | | | |
| | | | B.S. / 1982 / Civil Engineering | | | | |
| Active registration | n number / state / exp | oiration date | #PE.0031955 / LA / 03-31-2026 | | | | |
| Year registered | 2005 | Discipline | Civil Engineering | | | | |
| | | | Other Pertinent Training / Certifications | | | | |
| | | | LADOTD Maintenance & Rehabilitation of Historic Bridges Training Course, 2 | 2016 | | | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 5/1999 | | | | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 10/2021 | 8/2007 | | | |
| | | | FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Sieer Bruge FHWA-NHI-130092 – Fundamentals of LRFR 2015 | \$, 8/2007 | | | |
| Contract role(s) / 1 | brief description of re | esponsibilities | Principal-in-Charge / Project Manager (satisfies MPRs #1, #2 | and #3) | | | |
| Experience dates | Experience and qua | alifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | | |
| (mm/yy–mm/yy) | intersection", etc. E | Experience dates | s should cover the years of experience specified in the applicable M | PR(s). | | | |
| | 44-5960 & 44-13321 (1 | H.009730.5), In-de | epth Bridge Inspection of Complex Structures, Statewide, LA (DOTD) – Projection Pro | ect manager/team leader for the | | | |
| 02/21-04/23; | in-depth inspections o | f 3 complex truss | es, one cable stayed, and 3 vertical lift bridges over major waterways. Performed QA/QC of the Prime's and | | | | |
| 04/16-02/20 | TRC's in-depth inspec | tions and reports | to include element level conditions. Services included: Plan and Document Retrieval and Review, Bridge | | | | |
| | Inspections in accordan | nce with the curren | t National Bridge Inspection Standards (NBIS) and AASHTO MBE. | | | | |
| | Contract No. 440000 | ntract No. 4400004920 (H.009859.5) Complex Load Rating and Inspection, Statewide, LA (DOTD) – Principal-in-charge/project manager | | | | | |
| | responsible for directin | esponsible for directing the load ratings and inspections of complex bridges that included complex trusses and movable (vertical lift, bascule, swing) | | | | | |
| 04/16 - 12/19 | bridges. Services included: Plan and Document Retrieval and Review; Bridge Inspections; Structural Modeling and Analysis (utilizing AASHTOWare | | | | | | |
| | AASHTOWare BrR where appropriate and provisions in the Current AASHTO Manual for Bridge Evaluation and DOTD Policies and Guidelines for | | | | | | |
| | Bridge Rating and Eva | <i>luation:</i> Peer Revie | ew Ratings and other reviews of ratings performed by three sub-consultants. | 1D Foncies and Guidelines jor | | | |
| | Contract No. H.012485.1, Off-system Load Rating, Statewide, LA (DOTD) – Principal-in-charge/project manager responsible for the assessment and | | | | | | |
| | load rating of 426 off-s | ystem bridges (CO | OSLAB, COPCSS, steel and concrete girders, railroad flat cars, culverts). He | managed two engineering subs | | | |
| 10/19 - 01/21 | and five teams of TRC load raters. Services included: Plan and Document Retrieval and Review; Bridge Inspections; Structural Modeling and Analysis; | | | | | | |
| 10/17 - 01/21 | Load Rating of each assigned bridge based on present condition. The load ratings were performed using the current LADOTD BDEM, AASHTO MBE | | | | | | |
| | and DOTD Policies and Guidelines for Bridge Rating and Evaluation. He ensured the project was completed under budget and on an expedited schedule. | | | | | | |
| | Reports for inspection | is and load rating | s were uploaded to the DOTD AssetWise/InspectX and ProjectWise systems | | | | |
| | TPC's principal in all | 1099 (H.009859.5) | , Complex Off-system Bridge Rating and Evaluation, Statewide, LA (DOTD | <i>i</i>) – As subconsultant, served as | | | |
| 03/18 - 05/18 | included Plan and Doci | ument Retrieval an | d Review: Bridge Inspection: Structural Modeling and Analysis: and developme | ant of CAD drawings for bridge | | | |
| | without as-built plans | He managed and r | berformed \mathbf{OA}/\mathbf{OC} of the inspection and load rating reports for the Prime consult | ant | | | |
| | Office of State Aid and | d Construction. B | ridge Inspection and Off-system Load Rating Contract, Statewide, MS - Prin | cipal-in-charge for this contract | | | |
| 09/17 - 06/18 | to provide 160 off-syste | em routine bridge | inspections and load ratings in accordance with the National Bridge Inspection S | Standards (NBIS) and AASHTO | | | |
| | MBE. Services include | ed: Plan and Docu | ment Retrieval and Review; Bridge Inspection; Structural Modeling and Analys | is; and Repairs. He personally | | | |

| | participated in a number of the field inspections and managed and performed QA/QC on the inspection and load rating reports. The project was on an accelerated schedule and he ensured the project was delivered on schedule and under budget . | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| 09/14-12/14: | Bayou Lafourche Moyable Bridge Inspections. Lafourche Parish. LA (off-system bridge inspections) – Project manager for the special emergency | | | | | | | |
| 01/15-03/15 | above and underwater inspections of two pontoon bridges. He performed oversight of the inspection and QC/QA of the inspection reports. | | | | | | | |
| 05/12-05/16 | Contract No. 4400002184, Bridge Preventative Maintenance Program (DOTD) – Project manager / team leader for the special rehabilitation inspections of 26 highway bridges to develop maintenance repair plans . Performed QC/QA of inspections and design plans. | | | | | | | |
| 06/14-08/18 S.P. No. 002562.5 – Bayou LaLoutre Bridge Rehabilitation, St. Bernard Parish, LA (DOTD) – Project manager for the special rehabilit inspections and rehabilitation design of this vertical lift bridge which included redesign of the bearings, lift tower column base and anchor bolts; overhead truss, lift tower, and lift girder repairs; an elevated platform for a new Operator House; and new fender system. He led the construction eng services, contractor RFIs and submittal. | | | | | | | | |
| 05/15 - 11/15 | Contract No. 4400002791 (H.003495 & H.011111), I-49 & I-220 Interchange, Caddo Parish, LA (DOTD) – Principal-in-charge/project manager responsible for the AASHTOWare BrR as-designed and as-constructed load ratings that included 3D models for the segmental alternate for both transverse analysis and longitudinal analysis using LUSAS and Bentley RM Bridge for I-49 over MLK Boulevard and QA/QC of the load rating reports. | | | | | | | |
| 08/07-12/07 Route 3 over Rappahannock River In-Depth Inspection, Middlesex County, VA (VDOT) - Team leader for this in-depth inspection of 9,989'1 | | | | | | | | |
| | steel truss bridge over a major waterway. He supervised the superstructure and substructure inspections including the non-destructive evaluation of the pin and hanger assemblies. He supervised the development of the CAD drawings, performed the QA/QC of the report, SI&A data and PONTIS element conditions. | | | | | | | |
| 02/10 02/12 | S.P. No. 700-99-0354 and 700-99-0510 - Crescent City Connection Bridges and Facilities, Orleans Parish, LA (DOTD) – Project manager for the | | | | | | | |
| 02/10-02/12 01/06-12/06 of the performed OA/OC of the inspection reports and CAD drawings. He developed repair recommendations and cost estimate | | | | | | | | |
| 03/17-Present | S.P. No. 44-17264; H.011965.5, LA 47 over IWGO Rehabilitation, New Orleans, LA (DOTD) - Project principal in responsible charge of the structural rehabilitation, cleaning and painting of this historic bridge (1,248 feet of steel main spans with cantilevered arms and tied-arch) <u>spanning a major waterway</u> . Preliminary and final plans addressed the repair and rehabilitation of all substructure and superstructure elements using LA Specs for Roads and Bridges, LA DOTD BDEM, and AASHTO MBE. A preliminary jacking analysis and repair scheme for the tied-arch tie girder (chord) repairs was provided. He also served as a Team Leader during a bridge inspection in advance of the design, as well as provided QA/QC reviews of the inspection and 3D scanning reports. Presently overseeing as-needed engineering support during construction. | | | | | | | |
| 06/06-10/18 | S.P. No.: H.003886.5, I-49 & I-220 Interchange, Shreveport, Caddo Parish, LA (DOTD) – Principal-in-charge/project manager on this new, multi- lane divided roadway, 4-level interchange project. Project was completed on an accelerated schedule and involved his management of five design teams to complete the work. Reviewed conceptual and structural designs and worked with the roadway design consultant to develop span arrangements, structure depths, pier concepts and roadway geometry for a dual bridge design that included post-tensioned segmental concrete and steel box girder superstructures using LA Specs for Roads and Bridges, LA DOTD BDEM, and AASHTO MBE. The project consisted of five new bridges and two bridge widenings. | | | | | | | |
| 05/05-12/05 | S.P. No. 700-17-0190 - I-10 Mississippi River Bridge, Baton Rouge, LA (DOTD) – Project manager and team leader for this in-depth inspection and rehabilitation design for the 3 cantilever through truss spans and deck truss approach spans. He was responsible for the inspection, coatings condition assessment, Acoustic Emission monitoring and analysis of 30 cracks, substructure survey to check pier rotation, rehabilitation design for replacement of an opened joint at Pier 7, and retrofit details for false chords that included modification of a longitudinal strut, and sequential jacking of the suspended span. He conducted a QA/QC review of the In-Depth Report and rehabilitation designs. | | | | | | | |

| Firm employed by TRC Engineers, Inc. | | | | | | | |
|--|---|---|---|-----------------------------------|--|--|--|
| Name Billy Va | rney, PE | | Years of experience with this employer | 2 | | | |
| Title Sr. Proje | ct Manager | | Years of experience with other employer(s) | 21 | | | |
| Degree(s) / Years | / Specialization | | M.S. / 2011 / Engineering (Infrastructure and Transportation Empl | hasis) | | | |
| | | | B.S. / 2000 / Civil Engineering | | | | |
| Active registration | n number / state / exp | biration date | #16253 / WV / 12-31-2024 | | | | |
| Year registered | 2005 | Discipline | Civil Engineering | | | | |
| | | | Other Pertinent Training / Certifications | | | | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2005 | | | | |
| | | | FHWA-NHI-130056 - In-Service Bridge Inspection for PEs, 2016 | | | | |
| | | | FHWA-NHI-130053 - Bridge Inspection Refresher Training, 2021 | | | | |
| | | | FHWA-NHI-130078 - Fracture Critical Inspector Techniques for Steel Bridges, | , 2012 | | | |
| | | | FHWA-NHI-130110 - Tunnel Safety Inspection, 2015 | | | | |
| Contract role(s) / brief description of responsibilities QA/QC Review Task Leader | | | | | | | |
| Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed | | | | | | | |
| (mm/yy–mm/yy) | intersection", etc. H | Experience dates | s should cover the years of experience specified in the applicable M | PR(s). | | | |
| | West Virginia Divisio | n of Highways, B | lennerhassett Island Bridge over the Ohio River, Wood County, WV – Served as TRC's QC/QA Reviewer | | | | |
| 07/23; 05/24 | with regard to a specia | l inspection of this | major, 4,000-foot-long tied arch bridge structure. Reviewed the deliverables produced for this inspection which | | | | |
| | encompassed all non-re | edundant steel tens | ion members (NSIM). | (Pa Enancting Division for some | | | |
| | two and a half yoars | ll of fighways, As | a fulfilled the role of PM and technical advisor for development of the state's Tra | a s Executive Division for over | | | |
| | Plan He also provided | technical advice o | n various bridge rehabilitation and replacement projects and led a team assemble | d to develop the State's Bridge | | | |
| | Fight for a so provided technical advice on various onlige renaonination and replacement projects and reviewed consultant and contractor bridge designs and | | | | | | |
| 03/16-11/18 | design-build design criteria for compliance with federal and state standards. Notably during this time he served as a Structure Technical Reviewer | | | | | | |
| 05/10 11/10 | responsible for working with the Consultant OAM and WVDOH's Design-Build Section to develop project criteria for the replacement or rehabilitation | | | | | | |
| | of 25 bridges along the | e I-70 corridor in V | Vest Virginia. Responsible for reviewing cost estimates and recommended rehab | pilitation schemes submitted by | | | |
| | the short-listed teams for feasibility and incorporation of resiliency design measures to combat the effect of future environmental factors. The eventual bid | | | | | | |
| | cost of \$275 million wa | as deemed excessiv | e and the state rebid the project as a Design-Bid-Build. | | | | |
| | West Virginia Divisio | on of Highways, S | tate Bridge Maintenance Engineer - Served in this capacity for four years. I | During this time, he was West | | | |
| | Virginia's Bridge Ins | Virginia's Bridge Inspection Program Manager responsible for inspection and load rating of the agency's approximately 7,000 structures statewide. | | | | | |
| | The position leveraged | his in-depth famil | iarity with the condition inspection and inventory requirements for ancillary stru | ictures as a result of his former | | | |
| 02/12-02/16 | position on the AASH | ΓO Committee on 1 | Bridge and Structures. Responsible for QAQC oversight of approximately 80 en | nployees statewide for all work | | | |
| | related to bridge main | tenance, inspection | and load rating to ensure the state was adhering to established state and federa | al policies. During this time he | | | |
| | served on the AASHT | O Committee on l | Maintenance Bridge Technical Working Group, the AASHTO Committee on B | bridges and Structures, and the | | | |
| | FHWA's Long-term B | ridge Preservation | Committee. | | | | |

| Firm employ | yed by TRC Engineers | s, Inc. | | | | |
|---------------|---|--|--|--------------------------------------|--|--|
| Name Mi | chael Schrepfer | | Years of experience with this employer | 21 | | |
| Title Ins | pection Team Leader / P | ractice Safety Lea | der Years of experience with other employer(s) | 18 | | |
| Degree(s) / | Years / Specialization | | M.E. / 1998 / Coastal Engineering; B.S. / 1990 / Ocean Engineerin | ig | | |
| Active regis | tration number / state / e | xpiration date | None | <u> </u> | | |
| Year registe | red N/A | Discipline | N/A | | | |
| 0 | | Ĩ | Other Pertinent Training / Certifications | | | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 4/1994 | | | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training (SNBI), 6/2024 | | | |
| | | | FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridge | s, 2009 | | |
| | | | FHWA-NHI-130078A – NSTM Refresher, 2/2024 | | | |
| | | | FHWA-NHI-130125 – National Tunnel Inspection Refresher, 2022 | | | |
| | | | LA DOTD – Movable Bridge Inspection Workshop, 2012 | | | |
| | | | ATSSA Traffic Control Supervisor, 2020 | | | |
| | | | A1SSA Flagger (A1000130392), 2023 | | | |
| Contro et rel | o(a) / heriaf description of | fun an an aileilitic a | Pridge Ingrestion Team Leader / Preject Sofety and MOT Cas | andinaton / UAS Load | | |
| Contract rol | e(s) / brief description of | responsibilities | Bridge inspection Team Leader / Project Safety and MOT Co | ordinator / UAS Lead | | |
| | | | (satisfies MPR #4) | | | |
| Experience | dates Experience and c | ualifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mn | n/yy) intersection", etc | . Experience dates | should cover the years of experience specified in the applicable MI | PR(s). | | |
| | Contract Nos. 44-5 | 960 and 44-13321 Co | mplex Bridge Inspections (DOTD) – Senior team leader for multiple cycle elem | ent level, routine, and in-depth | | |
| | inspections of comp | lex bridges including | US 90 B (GNO 1 & 2), I-10 Mississippi River and I-10 Calcasieu River bridg | ges (cantilever and deck truss), | | |
| 02/16 04/ | I-310 Luling (cable | 1-510 Lunng (capie stayed/dox girder), US 90 over 1HNC (vertical lift), LA 1 over Company Canal (vertical lift), LA 25 over ICCW (vertical lift), and LA 30 Claibarna over IHNC (vertical lift through trues). Lad inspection teams and operated againment including bucket trueks, manifes, bucket bacta | | | | |
| 05/10-04/2 | 25 LA 39 Claudor lie of marsh buggy and sr | ver mine (vertical in | ion reports in DOTD AssetWise format developed element level quantities and | condition states and compiled | | |
| | SI&A data Searche | SI&A data. Searched for plans and reports in the DOTD Plans and Microfilm Rooms, DOTD AssetWise system, and in person at Bridge Maintenance. | | | | |
| | Developed project s | Developed project safety plans and schedules for multiple inspection teams. Submitted traffic control plans and monitored traffic control operations. | | | | |
| | S.P. No. 44-17264 | (H.011965.5), LA 47 | over IWGO, Bridge Rehabilitation, New Orleans, LA (DOTD) - Senior t | eam leader performing bridge | | |
| 11/21 01/ | cleaning/washing an | cleaning/washing and inspection for rehabilitation design of tied arch/deck truss bridge. He led cleaning operations and subs with the use of a manlift, | | | | |
| 11/21-01/22 | platform and snoope | platform and snooper trucks, and safety boat. He supervised traffic control, safety operations, and wrote inspection and cleaning reports. He searched | | | | |
| | bridge plans and ins | pection reports from I | OTD Plans/Microfilm Room, DOTD AssetWise. | | | |
| | 44-4920 (H.009859. | 5) Complex Load Ra | ting and inspection, Statewide, LA (DOID) – Senior team leader for load rati | ing assessments of 15 complex | | |
| 02/16-12/19 | girder and deck trus | s) 3 vertical lift brid | ater ways. Included LA 47 over TWGO (steel field after fillos), Riverbound Explans 1 baseule bridge and 4 swing bridges. He planned coordinated with sta | ate and local agencies (DOTD | | |
| | 19 USCG LSP) and ma | anaged traffic control | special aerial access and rope access teams: developed safety plans, and led inst | pection teams Involved the use | | |
| | of special access eq | uipment, boats, confi | hed space entry, and coordination for bridge openings with marine traffic. He | directed document search and | | |
| | collection of as-built | t plans, bridge inspect | on reports, and other historical documents in hard copy and electronic format, a | s well as performed QA/QC of | | |
| | inspection reports. I | He wrote inspection re | ports and entered inspection and load rating information into DOTD AssetWise/ | InspectX systems. | | |

| | WVDOH, Blennerhassett Island Bridge, Parkersburg, WV – Team leader during the In-depth/Element Level/Routine (2022, 2024) inspections of this |
|------------------------------|--|
| 03/22-04/22. | network arch bridge that carries U.S. Route 50 over the Ohio River and historic Blennerhassett Island. The longest bridge in West Virginia, the structure |
| 04/2024 | has a total length of 4,009'. Led the performance of a hands-on inspection of every element of the structure which included the Ohio approach (three-span |
| 04/2024 | steel girder unit with a total length of 490'), main span (878.5' network tied-arch unit that crosses the main channel of the Ohio River) and WV approaches |
| | consisting of an eight-span steel girder unit (total length of 2,625'). He updated element level condition states and SI&A coding. |
| 09/14-12/14; | Movable Bridge Inspections, LaFourche Parish, LA – Senior team leader for the special above and underwater inspections of two off-system pontoon |
| 01/15-03/15 | bridges to develop repair and maintenance plans and documents. He led the field inspections, performed the diving, and wrote the inspection report. |
| | S.P. No. 002562.5 and H.005330.5, Little Caillou and Bayou LaCarpe Bridges (Houma) and Bayou LaLoutre Bridge Rehabilitations, St. Bernard |
| | Parish, LA (DOID) – Senior team leader for special rehabilitation inspections of three vertical lift bridges. He planned, coordinated with state and |
| 02/13; 09/09 | local agencies and subcontractors (including traffic control), and led inspection teams. He also coordinated for bridge openings with marine traffic during the inspection teams. He also coordinated for bridge openings with marine traffic during the inspection teams. |
| | as built plans, bridge inspection reports, and other documents in cleatronic format located at DOTD Concrete deck; directed a search and conection of |
| | as-built plans, bridge inspection reports, and other documents in electronic format located at DOTD General Files; and submitted traffic control plans. |
| | Contract No. 4400002184, Bridge Preventative Maintenance Program (DOTD) - Senior inspection team leader for special rehabilitation inspections |
| 05/10 05/16 | of 26 highway bridges to develop maintenance repair plans. He planned and coordinated inspections which included traffic control and special access |
| 05/12-05/16 | equipment. He wrote inspection reports and recommended bridge repairs. He directed the search and collection of as-built plans, bridge inspection reports, |
| | traffic control plans, coordinated traffic control, and worked directly with DOTD Districts to obtain parmits and notify the traveling public. |
| | S. D. No. 700.24.0031. US 100 Mississippi Divor Bridge Dehabilitation (DOTD) – Senior team leader for a special rebabilitation inspection of this |
| | five-span captilever steel trues. He planned coordinated with state and local agencies and subcontractors, and led multiple inspection teams. Inspection |
| 06/11 06/12 | involved the use of special access equipment such as manlifts and technical climbing. He coordinated and worked directly with the 8 th Coast Guard District |
| 00/11-00/12 | to obtain notice to mariners. He performed all traffic control coordination, reviewed and submitted traffic control plans, and worked directly with DOTD |
| | Districts to provide notice to the traveling public. He inspected and corrected traffic control patterns daily during bridge inspection operations |
| | S P. No. 700-36-0185 I A 47 (Paris Road) over Mississinni River Culf Outlet. Orleans Parish I A (DOTD) – Senior team leader for this in-denth |
| | inspection of a 6 620' long steel tied arch truss bridge over a major waterway which used special access equipment (snooper and bucket truck) technical |
| | rope access, non-destructive acoustic emission testing, and coating evaluations . He planned and supervised all field operations, retrieved bridge plans |
| 06/06-12/06 | and historical inspection documents, coordinated with District Engineers and State Maintenance Engineers, planned meetings, and coordinated traffic |
| | control operations. He contracted for and managed 5 subcontractors. He prepared and edited the bridge inspection report and supporting documentation, |
| | updated SI&A data and PONTIS element conditions. He developed a QA/QC program for this inspection and also managed project safety. |
| | S.P. No. 700-99-0354 and 700-99-0510, Crescent City Connection Bridges and Facilities, Orleans Parish, LA (DOTD) – Senior team leader for the |
| 01/06 12/06 | routine, special, and damage inspections of 120 bridges that included cantilevered thru trusses over the Mississippi River, steel deck trusses, steel plate |
| 01/00-12/00, 02/10, 02/12 | girders, and box girders over the Harvey Canal. He planned inspections, retrieved bridge plans and historical inspection documents, coordinated with state |
| 02/10-02/12 | and local agencies and subcontractors (including rope access and traffic control), resourced the project, wrote the safety plan, and led inspections for 2 |
| | cycles. He managed project safety, accounting and subcontracts. He wrote and edited inspection reports, and performed QA/QC of inspections. |
| | ODOT, Veterans Glass City Skyway Bridge (LUC-280) over Maumee River, Toledo, OH / US 50 over Great Miami River, Hoover, OH – Team |
| 06/17-12/17; | leader for the routine and Element Level inspections of the cable stayed main bridge and post-tensioned concrete box girder approach bridges (LUC- |
| 06/24 | 280) and 4 span steel truss (US 50) bridge. Supervised the concurrent use of 4 inspection teams, special aerial access equipment, and traffic control. He |
| | also developed elements, quantities, and condition states for the bridges; wrote the inspect lech report; and managed project safety. |
| 05/17-06/17: | WVDOH 6-Year NBIS Program, Statewide WV – Team leader for the in-depth inspections of US 50 over Kanawha River (tied-arch / box girder), |
| 06/15-12/15: | Admiral T.J. Lopez Bridge over Kanawha River, 5 th Street Bridge over Kanawha River (thru truss), and 35 th & 36 th Street Bridges over Kanawha |
| 10/14-12/14: | River (tracture critical girders) and four ramp bridges. The inspections involved the concurrent use of special access equipment such as bucket trucks, |
| 10/11-12/11 | snoopers, manlifts, and boats. He supervised multiple inspection teams and traffic control; developed the elements, quantities and condition states; SI&A |
| | coding; wrote inspection reports in InspectTech for each bridge, and managed project safety. |

| Firm employed by | TRC Engineers, In | nc. | | |
|------------------------|---|---|---|--|
| Name Mark Castay, P.E. | | | Years of experience with this employer | 9 |
| Title Bridge E | ngineer | | Years of experience with other employer(s) | 7 |
| Degree(s) / Years | / Specialization | | M.S. / 2008 / Civil Engineering B.S. / 2006 / Civil Engineering | |
| Active registration | n number / state / expi | ration date | #PE.0039430 / LA / 09-30-2025 | |
| Year registered | 2015 | Discipline | Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 4/2016 FHWA-NHI-130053 - Bridge Inspection Refresher, 12/2020 FHWA-NHI-132082 – LRFD for Highway Bridge Substructures, 2017 LTRC/LADOTD-AASHTOWare Bridge Rating Fundamentals Training, 2017 FHWA / NHI – NEPA and Transportation Decision Making, 2009 ATSSA Louisiana Traffic Control Supervisor – Louisiana specific (issued 12/3, ATSSA Traffic Control Technician – Louisiana specific (issued 12/1/20; expired | /20; expires 12/3/24) es 12/1/24) |
| Contract role(s) / b | orief description of re | sponsibilities | Bridge Inspection Team Leader / Load Rating / Bridge Reha #4) | b Design (<mark>satisfies MPR</mark> |
| Experience dates | Experience and qual | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. Ex | xperience dates | s should cover the years of experience specified in the applicable M | PR(s). |
| 08/23-02/24 | Contract No. P028743, of a 2-span continuous components and approa | Woodruff Road 256' integral abut ch slabs. He also p | Parallel Bridge over I-85, Greenville, SC (SCDOT) – Bridge design engineer as ment bridge. His responsibilities included design of the deck, bearings, wingwa performed QC of the plan set and quantities. | ssigned to assist with the design lls, mash barriers, substructure |
| 06/21-Present | S.P. No. 44-17264; H.011965.5, LA 47 over IWGO, Bridge Rehabilitation, New Orleans, LA (DOTD) – Team leader during the performance of a bridge inspection for the rehabilitation design of this 6,620' tied arch/deck truss bridge included in the state historic bridge management plan. He led the superstructure and deck inspections. As a Bridge Engineer, his responsibilities included design and plan generation for the rehabilitation of various bridge components, including CFRP strengthening of prestressed girders and columns, deck joints, spalls and fractures on superstructure and substructure components, ancillary steel and aluminum frames, bearing replacement, and structure jacking schemes. Presently providing engineering support during construction. | | | |
| 02/21 | Contract No. H.01332 and towers of the I-310 | l, Complex Bridg over Mississippi | ge Inspections, Statewide, LA (DOTD) – Bridge inspector assigned to inspect River bridge (cable stayed bridge). | the box girders, cable anchors, |
| 12/19-12/20 | Contract No. 4400004 rating engineer for the s and concrete or timber p with 3 ton or closure rat | 920 (H.012485.1) ite assessments an biles. He used AA ings. | , Complex Off-system Bridge Rating and Evaluation, Statewide, LA (DOTI nd load ratings of 345 off-system concrete slab span (COPCSS, COSLAB) bridg ASHTOWare BrR and LRFR to perform the load ratings. He also provided repair | D) – Bridge inspector and load ges supported on concrete caps ir recommendations for bridges |
| 01/19-05/19 | City of Bossier, Walter and steel girder cross fra | • O. Bigby Carria ames, along with t | Igeway Bridge, Bossier, LA - Bridge engineer responsible for the design of end he load rating of prestressed girders. | bents, deck and approach slabs, |

| | Contract No. 4400010099 (H.009859.5), Complex Off-system Bridge Rating and Evaluation, Statewide, LA (DOTD) – Bridge inspector and load |
|--------------|---|
| 03/18-04/18 | rating engineer for the site assessment and load rating of an off-system truss bridge over the Tensas River. He led an assessment of the superstructure |
| | elements, operated a platform snooper truck and developed the load rating for the bridge using AASHTOWare BrR. |
| 00/17 02/18 | Mississippi Department of Transportation, State Aid Bridge Inspection and Load Rating IDIQ Master Contract - Bridge inspector and load rating |
| | engineer for 160 concrete and timber off-system bridges. Performed routine inspections and load ratings in accordance with the National Bridge Inspection |
| 0)/1/-02/10 | Standards (NBIS) and AASHTO MBE on selected bridges located statewide. He used AASHTOWare BrR and LRFR to perform the load ratings. He also |
| | provided repair recommendations for bridges with 3-ton or closure ratings. |
| | Contract No. 4400004920 (H.009859.5) On-system Complex Load Rating, Statewide, LA (DOTD) – Bridge load rating engineer and bridge inspector |
| | responsible for site visits, assessments and load rating of complex truss and movable bridges under this retainer contract. For the Bayou Teche bridge |
| | (swing span) he performed the bridge inspection and documented deficiencies to be used in the load rating analysis. For the LA 27 over ICWW (vertical |
| | lift/truss) bridge he inspected the lift span and truss, rated pile cap bents and performed QC on gusset plates, truss models/chord splices, and PCC and |
| | steel girder analyses. For LA 319 over ICWW (double leaf bascule) he performed rating analysis on PCC girder spans and hammerhead bent caps using |
| | strut and tie-in addition to QC of the remainder of the bridge components. For the LA 654 over Bayou Lafourche (vertical lift) he performed QC on the |
| 04/16-06/19 | bridge rating calculations and analysis models. For LA 657 over Bayou Lafourche (vertical lift) he performed rating analysis on the slab spans and main |
| | span girders, floor beam and stingers. For the LA 83 Bridge over Patout Bayou (swing span) and St. Anne Bridge over Terrebonne Bayou (swing |
| | span), he performed QC on the bridge rating calculations and analysis models. For LA 47 over IWGO (tied arch truss) he performed load rating analysis |
| | for the pin and nangers, link plates and chord splices, as well as the pile supported reinforced concrete caps. He also calculated the truss panel point dead |
| | inspection and load ratings for pin and hangars and an analysis for the trues guesset plates in AASHTOWare Prp. For the US 00P Diverbound Evonessmey |
| | (riveted plate girder and deek trues) bridge he performed the bridge inspection and documented deficiencies to be used in the load rating analysis. He |
| | performed a load rating analysis of the girders floor beams stringers gusset plates and truss members |
| | Contract No. 4400005960 (H 009730 5) In-denth Bridge Inspection of Complex Structures Statewide I.A (DOTD) - Bridge inspector for |
| 03/16-09/16; | cantilevered truss bridges on L-10 over Lake Calcasien and the Mississinni River along with the US 90 Danziger Bridge (vertical lift). Involved in- |
| 06/18 | denth inspection of the bridge superstructure and substructure element level conditions/quantities, and composing the final report |
| | S P. No. + H 00/266 (700-24-0031) Route US 100 Rebabilitation over Mississippi River East and West Baton Rouge Parishes. I A (DOTD) - |
| 07/17-12/17 | Performed calculations and assisted in the development of schemes for general structural rehabilitation of items including bearings and connections angles |
| 06/15-08/15 | Belaire Bridge Rating. Plaquemines Parish. LA - Performed the bridge load rating for a precast slab span bridge replacement from as -built drawings. |
| 00/15-00/15 | S.P. No. H.005365.5. Underwater Bridge Inspections and Acoustic Imaging statewide I.A. (Bridge Engineer: 2012). Responsible for directing the |
| 11/11-5/13 | underwater inspections of the substructure elements of 12 bridges including I A 47 over IWGO throughout the state of Louisiana He directed the |
| 11/11 5/15 | inspection divers during the inspections, composed field notes, and report writing. |
| 10/12-12/12 | Lake Provost Road Bridge Rating, Lafayette Parish, LA – Performed the load rating for a 3-span bridge (timber) replacement from as-built drawings. |
| 10,12,12,12 | S.P. No.: 713-42-0143. Georgie Ridge Bridge. Richland Parish. LA (DOTD) – Assisted in the design of a 7-span pre-stressed girder superstructure and |
| | pile supported substructure. He also compiled quantities for the bridge in addition to calculations for geometrics. Mr. Castav was tasked with executing a |
| 05/09-08/10 | detailed lateral pile analysis which incorporated the soil/pile interaction to justify a pile size reduction. This analysis was able to verify that a pile size |
| | reduction on the bridge would reduce construction costs considerably. A comprehensive report was generated to substantiate results created in the model. |
| | S.P. No.: 455-09-0003, I-49 North Extension: LA 169 to LA 530, Caddo Parish, LA (DOTD) – The bridges consisted of 12-102 ft. AASHTO Type IV |
| 07/08-12/10 | girder spans supported by column bents and drilled shaft foundations spanning Twelve Mile Bayou. Mr. Castay's responsibilities included calculating |
| | vertical and horizontal alignments; design of the structural deck, pre-stressed girders, caps and column bents; and quantity calculations and cost estimates. |

| Firm employed by | TRC Engineers, Inc. | | |
|----------------------|--|--|--------------------------------------|
| Name Denny D | bispennette, P.E. | Years of experience with this employer | 7 |
| Title Civil Eng | gineer | Years of experience with other employer(s) | 5 |
| Degree(s) / Years | / Specialization | M.S./ 2012 / Civil Engineering | |
| | | B.S. / 2010 / Civil Engineering | |
| Active registration | n number / state / expiration date | #PE.0044141 / LA / 3-31-2026 | |
| Year registered | 2019 Discipline | Civil Engineering | |
| | | Other Pertinent Training / Certifications | |
| | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 3/2014 FHWA NHI 120052 - Bridge Inspection Refresher Training, 12/2021 | |
| | | FHWA-NHI-130035 - Bridge Inspection Refresher Training, 12/2021 FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridges | 10/2021 |
| | | FHWA-NHI-130092 - LRFR for Bridge Superstructures, 2014 | 10/2021 |
| Contract role(s) / l | orief description of responsibilities | Bridge Inspection Team Leader / Load Rating (satisfies MPR # | <mark>4)</mark> |
| Experience dates | Experience and qualifications rel | evant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | rders", "designed |
| (mm/yy–mm/yy) | intersection", etc. Experience dat | es should cover the years of experience specified in the applicable MF | PR(s). |
| 10/22 07/23 | Trout Run Cutoff Bridges – Hardy Co | ounty, WV (WVDOH) – Designer and load rater for the twin bridges carrying US48 | over a local road. He designed |
| 10/22-07/23 | the two different (EB & WB) steel supe | rstructures (girders and all associated details) and load rated each of these new bridg | es to be constructed next year. |
| | WVDOH, Blennerhassett Island Brid | ge, Parkersburg, WV (WVDOH) – Project Manager/Team Leader during the Rou | tine (2022, 2024) and Special |
| 04/22 07/22 | inspections (2023) of this network arch | bridge that carries U.S. Route 50 over the Ohio River and historic Blennerhassett | Island. The longest bridge in |
| 04/23-07/23 | the Ohio approach (three-span steel gird | ler unit with a total length of 489'-9") main span (878'-6" network tied-arch unit the | at crosses the main channel of |
| 04/24-Present | the Ohio River) and WV approaches cu | possisting of an eight-span steel girder unit (total length of $2,624'-10\frac{1}{2}''$). He also p | planned the inspection, safety, |
| | subcontractor coordination/contracting, | and traffic control; wrote the inspection report; developed the element level data; a | and updated the SI&A coding. |
| | Presently leading the load rating of this | structures using LARSA 4D and AASHTOWare BrR software. | |
| 12/21-01/22 | Linden Street Bridge over Lackawan using LRFR. | na River, Scranton, PA (PennDOT) – Load rater for the superstructure (steel girde | er) and substructure load rating |
| | Contract No. 44-13321; H.09730.5 Re | tainer Contract for In-depth Bridge Inspections (On-System), Statewide (DOT | D) – Team Leader responsible |
| 12/21 | for the routine and element level inspe | ction of the I-10 over Calcasieu River truss bridge. He inspected the deck, stee | l superstructure (girders, floor |
| | beams, stringers, bearings), steel substru | cture (bent caps, columns, diagonal bracing, gusset plates) using aerial access equip | ment. He wrote the inspection |
| | report defect list and updated the drawn | ngs for the defects. | |
| 11/20-11/20 | General Engineering Services Contra | ct, Franklin County Engineer's Office (FCEO), OH – Team Leader responsible f orts in AssetWise in accordance with NBIS and ODOT standards | or 17 bridges. He led the field |
| | West Virginia Division of Highways | Net in Fischer is an accordance with this and obot standards. | ignor responsible for undefing |
| 10/20-02/21 | west virginia Division of Highways, District 1, KHL Blvd. Bridge - Kanawha County, WV - Load rater and bridge designer responsible for updating the steel girder design, cross-frame design, and load ratings. | | |
| 12/19-12/20 | Contract No. H.012485.1 Off-system | Load Rating, Statewide, LA (DOTD) – Load rating engineer responsible for load ra | ting of 300 off-system bridges |
| | (COSLAB, COPCSS, steel and concret | e girders, culverts). He rated the concrete panel and slab superstructures using AA | SHTOWare BrR software and |
| | under plie substructure units using Ex | ter and STAAD. He was the responsible engineer for over 50 bridge load rating t | reports. The load ratings were |
| | | IRC Engineers, Inc. | Page 18 of 186 |

| | performed using the current AASHTO <i>Manual for Bridge Evaluation</i> and DOTD <i>Policies and Guidelines for Bridge Rating and Evaluation</i> . He provided repair recommendations for bridges with 3 ton or closure ratings. |
|-------------|--|
| 10/19-03/20 | Off-system Bridge Load Rating, South Carolina Department of Transportation, Statewide, SC - Load rating engineer responsible for the load rating of several off-system bridges in South Carolina. He used AASHTO BrR for the concrete superstructures, load rated the substructure elements, issued posting recommendations, and updated NBI data. |
| 04/18-12/19 | Contract No. 4400004920 (H.009859.5) Complex Load Rating and Inspection, Statewide, LA (DOTD) – Performed load ratings and inspections of complex bridge structures that included trusses and movable (vertical lift, bascule, swing) bridges. Services included: Plan and document retrieval and review; Bridge inspection; and Structural modeling and analysis. Load Rated each assigned bridge based on present condition, capacity and loading using the load rating provisions in the current AASHTO <i>Manual for Bridge Evaluation</i> and DOTD <i>Policies and Guidelines for Bridge Rating and Evaluation</i> . Also peer reviewed ratings. |
| 10/18-12/18 | I-70 Bridge Rehabilitation, Ohio County, WV (WVDOH) – Team leader for the rehabilitation bridge inspections of four steel multi-girder bridges carrying I-70 EB and WB. He ensured the completion of thorough condition documentation as well as geometric inventory measurements to provide information for the rehabilitation of each structures. He also participated in the preparation of rehabilitation plans for the bridges. |
| 11/18-12/18 | Kanawha Falls Bridge, Kanawha Falls, WV (WVDOH) – Team leader for the emergency bridge inspection a 90-year-old, three-span, riveted through truss over the Kanawha River. He led and performed the inspection of the entire floor system to verify conditions and to advise if additional emergency repairs were required. He led and performed an inspection of the truss lower chords and stringers looking for critical findings that might require immediate repair or preclude the bridge from reopening. A hands-on inspection of the lower chords and floor beam to lower chord connections was also conducted. He developed and submitted an inspection report. |
| 04/18-10/18 | Seabrook Nuclear Power Plant Bridge Replacement, Seabrook, NH – Load rater and designer for replacement of an existing 3-span, 32-foot-long bridge in a nuclear power plant that spans high voltage transmission lines. The new bridge was a multi-steel girder with an aluminum deck. |
| 10/17-02/18 | Office of State Aid and Construction, Bridge Inspection and Off-system Load Rating Contract, Statewide, MS - Load rating engineer responsible for the performance of load rating analyses on the timber substructure elements of 160 off-system bridges in Lincoln, Pike, and Amite counties. He analyzed timber and concrete substructure components in compliance with the AASHTO MBE. This load rating effort was completed on an accelerated schedule. |
| 10/12-09/17 | West Virginia Division of Highways, Charleston, WV – Bridge engineer/load rater/bridge inspector while employed by the WVDOH. His responsibilities included the load rating of trusses, steel deck girders, steel box beams and simple span bridges; performance of QA/QC on load ratings; development of the load rating policy for the State's load rating program; review of consultant load rating reports; and teaching classes on load rating to State bridge engineers. He also served as a team member during the inspection of several complex girder and truss bridges, including I-470 over the Ohio River and the Hi Carpenter Memorial Bridge over the Ohio River, and during routine inspections of other bridges throughout the state. |

| Firm employed by | TRC Engineers, In | nc. | | |
|-----------------------------|--|---|---|---|
| Name Christopher Hay, P.E. | | | Years of experience with this employer | 8 |
| Title Sr. Bridge Engineer | | | Years of experience with other employer(s) | 9 |
| Degree(s) / Years | / Specialization | | B.S. / 2007 / Civil Engineering | |
| Active registration | n number / state / expi | ration date | #PE.0043025 / LA / 03-31-2026 | |
| Year registered | 2018 | Discipline | Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 10/2016 | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 6/2021 FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridges FHWA-NHI-130092 – LRFR for Bridge Superstructures, 2019 | s, 2014 |
| Contract role(s) / b | orief description of rea | sponsibilities | Bridge Inspection Team Leader / Load Rating / Bridge Rehab #4) | Design (<mark>satisfies MPR</mark> |
| Experience dates | Experience and qual | ifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. Ex | xperience dates | s should cover the years of experience specified in the applicable MI | PR(s). |
| 11/22-Present | Ohio Department of The bridges. Was also response bridge with multiple dog in Midas Civil. | cansportation, V onsible for training legs on a curved a | AR-STW-Statewide Load Rating – Load rater performing LRFR and LFR rating g, checking and QA reviews of numerous steel beam and concrete slab bridge ratalignment with variable flares rated in BrR using line girders calibrated for live load | s of steel beam and plate girder ings. Completed the rating of a d distribution factors calculated |
| 04/22-07/22; 04/24-06/24 | West Virginia Division of Highways, Blennerhassett Island Bridge over the Ohio River, Wood County, WV – Inspection team leader during the completion of routine element level inspections of this network arch bridge that carries U.S. Route 50 over the Ohio River and historic Blennerhassett Island. The longest bridge in West Virginia, the structure has a total length of 4008'-9". Involved in the performance of a hands-on inspection of every element of the structure which included the Ohio approach (three-span steel girder unit with a total length of 489'-9"), main span (878'-6" network tied-oreh unit that encode the main channel of the Ohio River) and WV encode consisting of an eight encode index unit (total length of 2 COV 101(")) | | | |
| 11/19-12/20 | Contract No. H.012485.1, Off-system Load Rating, Statewide, LA (DOTD) – Bridge inspector responsible for the assessments of 50 off-system bridges (COPCSS and COSLAB with concrete or timber piles). He documented current conditions and geometric data for the load ratings. Served as the load rating engineer which included analysis of the superstructures and substructures (timber and concrete piles) using AASHTOWare BrR, LRFR, and STAAD. | | | |
| 12/18-01/19 | West Virginia Department of Highways, I-70 Bridges Design/Rehabilitation Inspections, Ohio County, WV and Belmont County, Ohio – Inspection team leader for the expedited inspection/evaluation of 7 bridges (steel girders). Responsible for identification and documentation of deficiencies to be included in the rehabilitation of assigned structures. | | | |
| 11/18-12/18 | West Virginia Departr year-old, three-span, riv lower chord connections of the truss lower chords | nent of Highway eted through trus s for the entire flo s and stringers loo | vs, District 9, Kanawha Falls Emergency Inspection, Fayette County, WV - s over the Kanawha River. Team leader tasked with performing an emergency is or system to verify their condition and advise if additional emergency repairs we oking for critical findings that might require immediate repairs or preclude the brid | Kanawha Falls Bridge is a 90- inspection of the floor beam to re required. Led an inspection dge from reopening. |
| 09/18-10/18 | Ohio Department of The of this cable stayed and River. He also performed | ransportation, D concrete segmen ed QA/QC checks | istrict 2, LUC-280 VGCS Inspection, Toledo, OH – Team leader for the routine tal box girder bridge consisting of a series of nine bridges, including ramps, calls of the inspection reports. | e and element level inspections rrying I-280 over the Maumee |

| 06/20-07/20; 02/22 Present | Cardinal Power Plant Bridge Inspection, Jefferson County, OH - Project manager and team leader for the in-depth, element inspections of two bridges |
|-------------------------------|--|
| | over multiple railroads on power plant property. The main bridge is a two-span prestressed concrete I-Beam bridge on integral abutments behind soil nail |
| | walls. The second bridge (TIDD bridge) is a seven-span, riveted two-girder bridge that spanned the same railroads and portions of maintenance facilities |
| 02/22-1 iesent | located on plant property. The element level reports were completed and submitted within 30 days of beginning the inspections. Based upon |
| | recommendations in the inspection report, this turned into a full analysis and deck replacement for which Mr. Hay is also the lead designer and project |
| | manager. |
| | West Virginia Department of Highways, I-70 Bridges Rehabilitation, Ohio County, WV and Bridgeport, OH - Bridge design engineer during the |
| | replacement or rehabilitation of several bridges. For the 7-span BEL-70-26.84 bridge (620 feet) the entire superstructure, including concrete deck, concrete |
| | barrier parapets, steel beams, expansions joints and bearings and rear abutment backwall, were replaced. The new bridge was constructed without a center |
| 06/18-10/19 | joint allowing a single median concrete barrier to be used for safety. The rear abutment was rehabilitated with a new backwall and a new full width approach |
| 00/10/10/17 | slab. New PTFE elastomeric bearings will be used to limit loading additions. He also assisted with rehabilitation design efforts at three (3) other bridge |
| | sites by providing plan and calculation checking involving rehabilitation work that included substructure patching, conversion to semi-integral, new |
| | elastomeric bearings and elimination of deck joints. All substructures had to be analyzed for the changes in loading due to joint eliminations, increase |
| | loading and bearing type changes. |
| | Ohio Department of Transportation, VAR-D08 Fracture Critical Bridge Inspections No. 2017-2, Fort Ancient and Oregonia, OH - Project involved |
| | the performance of annual bridge inspections on various truss bridges and post-tensioned bridges in ODOT District 8. Mr. Hay participated in the routine |
| 09/17; 12/17; 9/18 | element level inspection of the following bridges: HAM-50-0376L (4-span thru-truss structure); HAM-50-2180N (7-span deck arch with three plate girder |
| and 01/19 | approach spans); WAR-71-1514L/R Jerimiah Morrow Bridge over the Little Miami River (post-tensioned, CIP Segmental boxes and cast-in-place, |
| | twin-wall piers); and U.S. Route 50 over the Great Miami River. Inspected the abutments, piers, floor beams accessible by ladder and all lower chords, |
| | as well as participated in the review of bridge inspection reports. |
| | West Virginia Department of Transportation - Division of Highways, 5th Street Bridge, Wood County, WV – Bridge inspector for the performance |
| 07/17 | of an In-Depth inspection of this bridge that consists of a 350' simple span riveted Warren Through Truss and 13 steel wide flange beam spans. The bridge |
| | is supported by reinforced concrete abutments and piers, along with steel bents on concrete pedestals. |
| | South Carolina Department of Transportation, Interchange Rehabilitation, I-85/I-385 Design-Build, Greenville, SC - Structural engineer on this |
| 03/15-04/16 | unique Design-Build project that included a road widening, interstate rehabilitation and intersection improvements. The project was developed using |
| | Design-Build to reduce construction time and provide for better management of cost, reduce environmental impacts and shorten travel delays for motorists. |
| | Ohio Department of Transportation, District 6, I-670/71 Interchange, FRA-71-17.16/FRA-670-4.19, Franklin County, OH - Bridge engineer on this |
| | \$200 million Design-Build project which involved improvement of the safety and operational efficiency of the I-670/71 Interchange. Goals included |
| 02/11-10/11 | providing a multi-modal solution for the interchange and surrounding streets, access points, pedestrian facilities, and aesthetic enhancement to support the |
| | City of Columbus' complete streets philosophy. The RFC (Released for Construction) plans were completed in a nine (9) month period for all of the |
| | drainage and SWPPP design, seven bridges (which included a 1000' long flyover structure), and 26 retaining walls (MSE, CIP, and T-Type). |

>TRC

| Firm employed by | TRC Engineers, In | IC. | | | |
|------------------------|---|--------------------|---|-----------------------------------|--|
| Name Craig Jacob, P.E. | | | Years of experience with this employer | 2.5 | |
| Title Bridge E | ngineer | | Years of experience with other employer(s) | 22 | |
| Degree(s) / Years | / Specialization | | B.S. / 1999 / Civil and Environmental Engineering | | |
| Active registration | n number / state / expin | ration date | #PE.68866 / OH / 12-31-2025 | | |
| Year registered | 2004 | Discipline | Civil Engineering | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FHWA-NHI-130053 - Bridge Inspection Refresher Training, 5/2022 | | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 9/2005 FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridge | s 11/2017 | |
| Contract role(s) /] | brief description of res | sponsibilities | Bridge Inspection Team Leader / Load Rating / Bridge Rehab | Design (satisfies MPR | |
| 001010001010(0)/ | | .p. 0.1.010101000 | #4) | | |
| Experience dates | Experience and quality | ifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. Ex | perience dates | s should cover the years of experience specified in the applicable MI | PR(s). | |
| | Ohio Department of Tr | ransportation, C | CUY-77-1121, Cuyahoga County, OH - Lead structural engineer for this project | t which involves a realignment | |
| 02/22-Present | and shoulder widening for safety improvements along I-77 in the Cleveland urban corridor. Serving as lead structural engineer on the design and plan | | | | |
| | production for nine new | retaining walls a | nd the reconstruction of two underpass bridges within the project limits to facilitat | te realignment of the interstate. | |
| | Ohio Department of Transportation, HAS-151-0485 Design-Build, Harrison County, OH - Structural engineer for this Design-Build contract involving a complete replacement of the bridge carrying SP 151 over the G&W Pailroad. The overpass alignment is highly skewed to the railroad. | | | | |
| 06/22-Present | alignment. The proposed structure follows the existing alignment but constructs one straddle bent over the railroad, instead of the six straddle bents of the | | | | |
| | existing bridge. Responsibilities include design development, quality review, and plan production. | | | | |
| 11/22 - 08/23 | Ohio Department of Transportation, VAR-STW-Statewide Load Rating – Load rater performing LRFR and LFR ratings of steel beam and plate girder | | | | |
| 11/22 00/23 | bridges. Reviewed completed ratings of bridges. | | | | |
| | West Virginia Division | n of Highways, | Blennerhassett Island Bridge over the Ohio River, Wood County, WV - | - Bridge inspector during the | |
| 04/22 - 07/22 | bridge in West Virginia, the structure has a total length of 4008'-9" Involved in the performance of a hands-on inspection of every element of the structure | | | | |
| 04/22 07/22 | which included the Ohio approach (three-span steel girder unit with a total length of 489'-9"), main span (878'-6" network tied-arch unit that crosses the | | | | |
| | main channel of the Ohio River) and WV approaches consisting of an eight-span steel girder unit (total length of 2,624'-10 ¹ / ₂ "). | | | | |
| | Ohio Department of Transportation, HAM-71-0134 Lytle Tunnel NTIS Inspection – Inspection team leader for a condition and element level | | | | |
| 09/21 | inspection of the liner, headwalls, approach wingwalls, and structural components of facility chambers in the 855-foot long, 3-barrel tunnel of I-71 below | | | | |
| | Lytie Park in Cincinnati. | f Transnortation | n Cable Staved Bridge On-Call Services Project engineer during the produ | uction of inspection procedure | |
| 04/21 - 05/21 | Georgia Department of Transportation, Cable Stayed Bridge Un-Call Services – Project engineer during the production of inspection procedure manuals for two cable stayed bridges in the Georgia structure inventory. He assisted in authoring the inspection manuals for the Telmodge Memorial | | | | |
| 0.121 00.21 | Bridge in Savannah and | the Sidney Lani | er Bridge in Brunswick. | s tot and Tunninge fremotion | |
| 02/21 02/21 | Indiana Department of | Transportation | , I-74 Emergency Bridge Repair, Crawfordsville District – Engineer-of-record | for a damage inspection, repair | |
| 02/21 - 03/21 | design, and bridge detail | s to correct vehic | ular impact on the steel beam superstructure of Wesley Station Road over I-74. | | |

| 01/20-12/21 | KYTC, Ohio River Fracture Critical Bridge Inspection Services – Project manager and inspection team leader for the fracture critical (NSTM) inspection of five long-span Ohio River bridges. The structures in the contract are the historic Roebling Suspension Bridge (Cincinnati, Ohio), the Irvin Cobb Bridge (Paducah, Kentucky), the Carroll Cropper Bridge (Lawrenceburg, Indiana), the Ben Williamson Bridge (12th Street Ashland, Kentucky), and the Simeon Willis Bridge (13th Street Ashland, Kentucky). He also led the load rating evaluation of the Carroll Cropper Bridge, a complex tied arch thru truss with suspender cables, based on as-inspected condition while using AASHTOWare BrR, LRFR and other software, and authored the capacity evaluation report. He managed the execution of the project, coordinated with railroads and a traffic control subconsultant, communicated with Cabinet and District engineers, directed inspection staff, and updated the condition and element level records in the state inventory database (BrM). He led or reviewed deliverable reports on noted structural conditions and maintenance recommendations, including documentation of fatigue cracks verified with NDT. |
|---|--|
| 10/19-10/20 | South Carolina Department of Transportation, Bridge Load Ratings, SC - Task leader and quality control reviewer for a team of analysts during the load rating of more than 200 bridges in two South Carolina districts using AASHTOWare BrR and LRFR method. Work included the production of load rating documentation as engineer-of-record for the state bridge management system. |
| 04/13; 04/17 | KYTC, Ohio River Fracture Critical Bridge Inspection Services – Team leader for a fracture critical (NSTM) inspection of the 5,340-foot-long Irvin Cobb Bridge (Paducah, Kentucky) which consists of ten main simple-span thru truss units with a maximum span length of 716 feet across the Ohio River. |
| 06/12; 06/16 | KYTC, Ohio River Fracture Critical Bridge Inspection Services – Team leader for a fracture critical (NSTM) inspection of the 5,746-foot-long Clark Memorial Bridge (Louisville, Kentucky). The bridge consists of two adjacent 3-span continuous thru truss superstructure units with a maximum span length of 820 feet across the Ohio River. |
| 09/11-03/12 | Brown County Engineers Office, Truss Load Ratings - Brown County, OH - Lead inspector and structural analyst for the condition evaluation and documentation of deterioration on 10 pony truss structures maintained by the County Engineer's Office. Assessments included field measurements to verify as-built configuration and current deterioration of steel gusset plates. He also processed the condition information to perform a capacity evaluation of the truss members and gusset plate connections. |
| 08/11-10/11 | Ohio Department of Transportation, District 8, CLI-71-4.26, SR 380 over IR 71 Bridge Rehabilitation, Wilmington OH - Lead bridge inspector, designer, and load rating analyst for a deck replacement on the existing steel plate girders of SR 380 over IR 71 with semi-integral and composite conversion. |
| 07/11 | Kentucky Transportation Cabinet, Inspection of Ohio River Bridges - Inspection team leader on the Simon Kenton Memorial Bridge (US 62/68) to assess fracture critical members, measure gusset plate deficiencies, and appraise the entire suspension bridge for condition rating and repair/maintenance recommendations. |
| 03/10; 04/11; 02/12 | City of Middletown, Bridge Inspection and Analysis, Middletown, OH - Lead engineer for the structural inspection, scour inspection, and load rating of 20 off-system bridges and large culverts in the municipality. Reviewer of annual city bridge inspections. |
| 11/07-04/08 | Ohio Department of Transportation, District 6, FRA-23-12.11, 4th Street Bridge over the NS Railroad and I-670, Columbus, OH - Inspection team leader and load rater for the seven-span bridge which consists of dog-legged steel beams, varying substructure skews, left and right horizontal curves with super-elevation reversal, and cantilevered structural concrete beams on abutment wingwalls. |
| 07/15-11/15 07/11-11/11 07/09 - 11/09 | ODOT District 8, Steel Pier Cap Inspections – Team leader for the fracture critical (NSTM) inspection of 51 structural steel pier caps on 13 different bridges in Hamilton County. Inspections included an evaluation of fatigue prone details and section loss measurement for capacity evaluation. He also produced condition rating reports for the fracture critical components and performed load ratings on several of the bridge pier caps. |
| 08/08 | KYTC, Ohio River Fracture Critical Bridge Inspection Services – Team leader for a fracture critical (NSTM) inspection of the 2,497-foot-long John F. Kennedy Bridge (Louisville, Kentucky) which consists of a 5-span continuous thru truss superstructure with maximum span length of 700 feet across the Ohio River. |



| Firm employed by | TRC Engineers, Inc. | | | | |
|----------------------|--|--|----------------------------------|--|--|
| Name Curtis W | vood, Ph.D., P.E. | Years of experience with this employer | 3 | | |
| Title Civil/Stru | actural Engineer | Years of experience with other employer(s) | 20 | | |
| Degree(s) / Years | / Specialization | Ph.D. / 2018 / Structural Engineering | | | |
| C V | • | M.S. / 2006 / Structural Engineering | | | |
| | | B.S. / 2000 / Engineering Mechanics | | | |
| Active registration | n number / state / expiration date | #PE.0046293 / LA / 03-31-2026 | | | |
| Year registered | 2021 Discipline | Civil/Structural Engineering | | | |
| | | Other Pertinent Training / Certifications | | | |
| | | FHWA-NHI-130056 - Safety Inspection of In-Service Bridges for Professional | Engineers, 12/2022 | | |
| Contract role(s) / I | brief description of responsibilities | Inspection Team Leader / Bridge Rehab Design (satisfies MPR | ↓ #4) | | |
| Experience dates | Experience and qualifications rele | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. Experience date | s should cover the years of experience specified in the applicable M | PR(s). | | |
| | Ohio DOT District 11, HAS-151-485, H | Larrison County, OH - Project manager for this design-build project involving the build project involving the build project involving the build project involving the build project involves the project and provide the project involves the | he replacement of a curved six- | | |
| 11/21-Present | span bridge over the CUOH Railroad. The bridge was highly skewed to the RR and required an integral straddle bent and a refined analysis. Multiple | | | | |
| | recognizing the risks associated with poor geotechnical material. | | | | |
| 11/00 D | Ohio Department of Transportation, V | AR-STW-Statewide Load Rating – Assigned as a load rater responsible for perf | forming LRFR and LFR ratings | | |
| 11/22-Present | of steel beam and plate girder bridges with | th multiple doglegs on a curved alignment with variable flares pegged to a BrR lir | ne girder. | | |
| 3/22-Present | Cardinal Operating Company, Bridge | Inspections – Reviewer for the FEA load rating of this 7-span, 400-foot-long brid | idge. The structure is privately | | |
| | owned and consists of two riveted, haund | ned, ninged plate girders framed into steel piers along with transverse floor beam | s and stringers. | | |
| 10/19 | Greater Columbus Convention Center third connector bridges, including fractur | Greater Columbus Convention Center, High-Third Connector Bridge Inspection, Ohio - Project manager and inspection team leader for the high-third connector bridges, including fracture critical inspections of steel pier caps. | | | |
| 08/20 | ODOT District 12, CUY-2-14.41 (Main | Ave.), Cleveland, OH - Team leader for the NBIS inspection of this fracture cri | tical bridge. | | |
| 09/19 | ODOT District 12, CUY-17-02.83, Clev Valley in Cleveland | veland, OH - Dr. Wood served as team leader during the NBIS inspection of Bro | okpark Road over Rocky River | | |
| | ODOT District 12, CUY-10-15.94 (Lor | rain Road over Columbus Road), Cleveland, OH - Team leader for an NBIS ir | aspection of the CUY-10-15.94 | | |
| 07/19 | bridge in Cleveland. | | | | |
| 11/21-12/21 | Contract No. H.013321 - Complex Bri | idge Inspections, Statewide - Team leader for the routine and element level in | spections of the I-10 over the | | |
| | Calcasieu River bridge (6,607-foot-long steel cantilever through truss and deck truss). Led inspections of the deck, superstructure (steel plate girders and | | | | |
| | rolled girders with pin and hangers), floor system (steel floor beams and stringers), and steel tower bents using an Aspen A-62 snooper. Coordinated with | | | | |
| | West Virginia DOH, I-64 Nitro Design | -Build OAM. West Virginia - This \$225 million I-64 improvement project was | completed using Design-Build | | |
| 03/20-03/24 | served to widens the interstate from four | to six lanes for 3.8 miles between the US 35 and Nitro Interchanges. Dr. Wood se | erved as project manager for the | | |
| | Quality Management Services which incl | luded the provision of design reviews during the entire construction period. | 1 5 | | |

>TRC

| | Ohio Department of Transportation, District 7, MOT-75-1044/1078, Montgomery County, OH - Lead bridge engineer for deck replacement and |
|-------------|--|
| 01/14-07/17 | girder hinge removal on two 940' long structures over the Great Miami River. The existing girders included kink points, hinges, and additional girders |
| | that were framed in midspan. Both structures were modeled using finite element analysis (FEA) to verify more traditional beam line analysis techniques |
| | which allowed the submitted bridge rating files to the owner to be simplified. |
| | Ohio Department of Transportation, CUY-77-1409, Broadway Ave over I.R. 77, Cuyahoga County, OH - Lead bridge engineer. As part of the |
| | CCG6B Cleveland innerbelt project, the design-build team was tasked with replacing the heavily skewed Broadway Ave. structure that spanned I.R. 77. |
| 02/17-01/18 | Though the mandated two spans of the bridge extended well beyond the typical limits of concrete girders, Dr. Wood developed the unique solution of |
| | utilizing spliced, precast, post-tensioned concrete I-girders due to their efficient resistance to adverse skew effects. This proved to be a very cost-effective |
| | solution. |
| | Ohio Department of Transportation, CUY-490/10-2.09/19.28, Opportunity Corridor 3, Ohio - The OC3 \$150 million design-build project completed |
| 03/18 11/18 | approximately 2 miles of new boulevard from I-490 to E. 89th Street and includes 6 new bridges, 12 retaining walls, 7 new intersections and numerous |
| 03/10-11/10 | improvements to the drainage and combined sewer system. Dr. Wood was the lead design engineer for developing novel top-down abutment construction |
| | techniques for several bridges. |
| | CSX (Create P3/GS19), CSX Blue Island Subdivision, Chicago, IL - Dr. Wood was the bridge lead engineer for the main span over 69th Street. The |
| | bridge consists of 56" web plate girders spanning 70 ft with four stringers per track and designed to support a four-track system. The substructure consists |
| 01/20-12/20 | of highwall abutments with wingwalls supported on drilled shafts. Construction staging was a significant aspect of the design. The overall project will |
| | involve constructing a bridge that significantly reduces conflicts between CSX and BRC, Metra and NS (P3). The project also includes constructing a road- |
| | rail grade separation with 71st Street and the CSX freight line (GS19) including associated signals, tracks, crossovers, and bridge work. |
| | Texas Department of Transportation, I-345, Dallas, TX - The IH-345 Bridge is a 1.6-mile long elevated expressway connecting I-30 and I-45 on the |
| | south with Texas Route 366 on the North in Dallas, Texas. The fracture-critical two-girder structure consists of over 60 independent bridge units. Completed |
| 01/14-12/15 | in 1971, the structure has exhibited distortion-induced fatigue cracking at the floor beam-to-girder connections. The IH-345 Critical Analysis Project |
| | involves condition assessment, structural analysis, and retrofit design development to address the ongoing crack problem. Dr. Wood served as project |
| | manager. |
| | Ohio Department of Transportation - District 1, ALL-75-703, Allen County, OH - Dr. Wood developed a 3-D FE model to design a unique substructure |
| 06/13-08/13 | supported on drilled shafts as part of a VE submitted to ODOT. He worked closely with the geotechnical engineer to reduce foundation costs while |
| | maintaining a robust design. |
| | Ohio Department of Transportation, SHE-29-1539 – Shelby County, OH - Dr. Wood was involved in the forensic investigation of a complex steel |
| 01/11-12/11 | plate girder that buckled during construction. As part of the investigation, Dr. Wood developed a 3-D FE model of the structure based on survey data taken |
| | after the girder failure. |

| Firm employed by TRC Engineers, Inc. | | | | | | | |
|--------------------------------------|---|--|---|---|--|--|--|
| Name Cody Shields, P.E. | | | Years of experience with this employer | 11 | | | |
| Title Civil Engineer | | | Years of experience with other employer(s) | 0 | | | |
| Degree(s) / Years | / Specialization | | B.S. / 2011 / Civil Engineering | | | | |
| Active registration | n number / state / exp | iration date | #PE.0044457 / LA / 09-30-2026 | | | | |
| Year registered | 2020 | Discipline | Civil Engineering | | | | |
| | | | Other Pertinent Training / Certifications | 5/2010 | | | |
| | | | FHWA-NHI-130056 - Safety Inspection of In-Service Bridges for Professional FHWA-NHI-130053 – Bridge Inspection Refresher Training (SNBI) 2/2024 | Engineers, 5/2019 | | | |
| Contract role(s) / h | orief description of re | esponsibilities | Inspection Team Leader / Load Rater (satisfies MPR #4) | | | | |
| Experience dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | | |
| (mm/vv-mm/vv) | intersection", etc. E | Experience dates | s should cover the years of experience specified in the applicable M | PR(s). | | | |
| | TDOT NBIS Bridge I | nspections, Conti | ract E2456 (3 Work Orders) – Team Leader and/or Bridge Inspector for the ro | utine inspections of off-system | | | |
| 03/23 - 08/23 | bridges in both Shelby Co. and Gibson Co. in Tennessee. Inspections were performed using InspectX software. Bridge superstructures included precast | | | | | | |
| 00,20 00,20 | channel slabs (PCCS), concrete box beams and prestressed I-beams. Substructures included concrete abutments, pile bents, and pier systems. Inspections | | | | | | |
| | also included multi-span concrete box curverts. Department of Energy Oak Ridge TN (DOE) – Bridge inspector performing 8 routine inspections for highway bridges and culverts along with | | | | | | |
| 02/23 | pedestrian bridges and walkways. | | | | | | |
| 11/22 - 12/22 | Ohio Department of Transportation, VAR-STW-Statewide Load Rating – Load rater assigned to perform LRFR and LFR ratings of steel beam and plate girder bridges with multiple doglegs on a curved alignment with variable flares pegged to a BrR line girder. | | | | | | |
| 2/20 - 09/20 | Contract No. H.01248 COPCSS bridges. Re (substructure) software | 35.1 Off-system L viewed inspection | .oad Rating, Statewide, LA (DOTD) – Load rater for off-system bridges whic reports and performed analysis on bridge elements using AASHTOWare BrR | h included both COSLAB and (superstructure) and STAAD | | | |
| 11/17 - 12/17 | Contract No. H.009730.5 Retainer Contract for Inspection of Complex Bridges, Statewide, LA (LADOTD) – Bridge inspector for the in-depth inspection of the Judge Perez vertical lift bridge. Documented deficiencies observed on the concrete bridge deck, parapets, open-grid metal deck (lift section), abutments, and bents | | | | | | |
| 10/17 - 11/17 | Off-System Timber B either partially or fully deteriorated or damage the client. | ridge Inspections comprised of timb d, taking detailed [| (MDOT) - Bridge inspector for over 40 bridges in three counties in southwest er components: piling, pile caps, girders, decking, and railing. Inspections included photographs of the condition of the bridge and all elements, and documenting eve | Mississippi. All bridges were d noting any elements that were crything in a report furnished to | | | |

| Firm employed by TRC Engineers, Inc. | | | | | | | |
|--------------------------------------|--|----------------------|---|---------------------------------|--|--|--|
| Name Lisa Bro | wn, EI | | Years of experience with this employer | 2 | | | |
| Title Bridge Engineer | | | Years of experience with other employer(s) | 8 | | | |
| Degree(s) / Years | / Specialization | | M.S. / 2021 / Civil Engineering | | | | |
| | 1 | | B.S. / 2019 / Civil Engineering | | | | |
| Active registration | n number / state / exp | iration date | #EI.14145 / OH / No Expiration | | | | |
| Year registered | 2022 | Discipline | Engineer Intern | | | | |
| | - | | Other Pertinent Training / Certifications | | | | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 7/2022 | | | | |
| | | | SPRAT Rope Access Technician - Level III (#130945, issued 12/22/23, expires | ; 12/22/26) | | | |
| | | | Confined Space Training | | | | |
| Contract role(s) / I | brief description of re | esponsibilities | Bridge Inspector (satisfies MPR #5) | | | | |
| Experience dates | Experience and qua | lifications relevant | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the time specified in the applicable MPR(s). | | | | |
| | ODOT District 8, HAM-71-0000L & HAM-75-0022L, Hamilton County, OH - Completed In-depth and fracture critical (NSTM) inspections on the | | | | | | |
| 05/23-06/23 | bridges carrying I-75 and I-71 traffic in downtown Cincinnati. As a result of her confined space certification, she functioned as the entrant and inspector. | | | | | | |
| | The inspection included | the interior of ste | el pier caps. She operated the bucket truck as well as the telescopic boom lift. | | | | |
| 07/22 07/22 | Contract No. 44-13321; H.09730.5 Retainer Contract for In-depth Bridge Inspections (On-System), Statewide (DOTD) – Bridge inspector | | | | | | |
| 07/22-07/22 | floor beams, stringers, bearings) using rope access climbing techniques. | | | | | | |
| | US 50 Blannarhassatt | Island Bridge P | arkersburg WV Bridge inspector while using perial access equipment and ro | ne access techniques to inspect | | | |
| 04/22-05/22 | the superstructure main | span (tied arch) a | at kersburg, www – bruge inspector while using actual access equipment and to and approach span (steel girder) components, along with bearings and piers | pe access techniques to inspect | | | |
| | Cardinal Operating C | 'omnany Barge I | Inloader Bridge Inspections – Bridge inspector during the performance of in-de | epth inspections for two access | | | |
| | bridges on the Cardinal Power Plant property. The Barge Unloader 1 is a two girder, single span rolled beam bridge with a steel grid deck. The Barge | | | | | | |
| 04/22 | Unloader 2 is a 3-span rolled steel beam bridge with a concrete deck, stub abutments and pile bent piers. Both bridges extended to concrete filled piers on | | | | | | |
| | he Ohio River. Due to access limitations and the bridges being load posted, rope access was required for these inspections. | | | | | | |
| | Bridge inspector while using rope access techniques to climb and inspect the following bridges: | | | | | | |
| | • Prescott and Yuma, Arizona – 15 structures including culverts, steel truss, steel beam, and concrete beam bridges. | | | | | | |
| 05/17-08/17 | • Jacksonville, FL – Isaiah David Hart Bridge, US 1 Alt. and SR 228 | | | | | | |
| 05/18-08/18 | • Westfield, MA – Westfield River Bridge, I-90 | | | | | | |
| 05/19-08/19 | • Cincinnati, OH – I-7 | 1 at Reading Road | | | | | |
| | • Oklahoma, statewide | – 40 bridges inclu | iding concrete beam, steel truss, and timber. | | | | |
| | • McKean, PA – Kınzı | ia Bridge (steel tru | iss rail bridge) | 1 | | | |
| | Note inspection report | is and developed s | keiches för each bridge. Also operated aerial access equipment (bucket truck and | t scissor lift). | | | |
| 05/14 01/22 | Rope Access Technician and Training/Staging Manager - Over The Edge Global - Facilitated communication between a Non-Profit, building | | | | | | |
| 03/14 - 01/22 | managers, and the Streety Supervisor; inspected gear kits while managing the opening and closing inventory; supervised the rig training area and assisted in main rappel rigging from a building roof; and geared and trained up to 90 rappelling participants a day | | | | | | |

| Firm employed by TRC Engineers, Inc. | | | | | | |
|--|---|-----------------|---|--------------------|--|--|
| Name Will Nowlin | | | Years of experience with this employer | 18 | | |
| Title Field Tec | chnician | | Years of experience with other employer(s) | 0 | | |
| Degree(s) / Years | / Specialization | | High School Diploma | | | |
| Active registration | n number / state / exp | iration date | None | | | |
| Year registered N/A Discipline | | | N/A Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges,12/2017 FHWA-NHI-130053 – Bridge Inspection Refresher Training, 2/2024 OSHA 10 hour Construction Safety | | | |
| Contract role(s) / brief description of responsibilities Bridge Inspector (satisfies MPR #5) | | | | | | |
| Experience dates Experience and qualifications relevant | | | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable M | PR(s). | | |
| 02/23-05/23 | TDOT Contract E2456, NBIS Bridge Inspections, TDOT Region 4 –Bridge Inspector during the completion of routine inspections of off-system bridges in Shelby County. Inspections were performed using InspectX software. Bridge superstructures included steel girder, precast channel slabs (PCCS), concrete box beams and prestressed I-beams. Substructures included concrete abutments, pile bents, and pier systems. Inspections also included multi-span concrete box culverts. | | | | | |
| 02/23 - 04/23 | Department of Energy, Oak Ridge, TN (DOE) – Bridge inspector during the performance of 36 initial and routine inspections for highway bridges and culverts along with 23 pedestrian bridges and walkways. | | | | | |
| 09/17-10/17 | 9/17-10/17 Office of State Aid and Construction, Off-System Bridge Inspection and Load Rating Contract, Mississippi – Bridge inspector for over 70 bridge in two counties in southwest Mississippi. All bridges were either partially or fully comprised of timber components: piling, pile caps, girders, decking, ar railing. Inspections included noting any elements that were deteriorated or damaged, taking detailed photographs of the condition of the bridge and a elements, and documenting everything in a report furnished to the client. Information obtained from inspections were then used to determine the bridge load ratings. | | | | | |

| Firm employed by | TRC Engineers, Inc. | | | | |
|--------------------------|---|---|--|---|--|
| Name Benja | min Medlin | | | Years of experience with this employer | 8 |
| Title Bridge | e Inspector | | | Years of experience with other employer(s) | 0 |
| Degree(s) / Years / Sp | ecialization | | High S | School Diploma | |
| Active registration num | mber / state / exp | iration date | N/A | | |
| Year registered | N/A | Discipline | Other I FHWA FHWA | Pertinent Training / Certifications / NHI #130055 - Safety Inspection of In-Service Bridges, 3/2017 / NHI #130053 – Bridge Inspection Refresher Training, 4/2022 | |
| Contract role(s) / brief | description of re | esponsibilities | Bridg | e Inspector (<mark>satisfies MPR #5</mark>) | |
| Experience dates | Experience and | qualifications | relevant | to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girde | ers", "designed |
| (mm/yy–mm/yy) | intersection", e | tc. Experience d | lates sh | ould cover the years of experience specified in the applicable MPR | (s). |
| 12/21; 02/23-04/23 | Contract No. 44-13321; H.09730.5 Retainer Contract for In-depth Bridge Inspections (On-System), Statewide (DOTD) – Bridge inspect responsible for a routine and element level inspection of the I-10 over Calcasieu River bridge (12/21), US 190 over Mississippi River bridge (3/2 and I-310 Luling Bridge (2/23). He inspected the deck, steel superstructure (girders, floor beams, stringers, bearings), steel substructure (bent ca columns, diagonal bracing, gusset plates) using aerial access equipment. He wrote the inspection report defect list and updated the drawings for defects | | | 'D) – Bridge inspector pi River bridge (3/23), substructure (bent caps, ed the drawings for the | |
| 02/20 | Contract No. H.0 bridges (COPCSS | and COSLAB wit | m Load l th concre | Rating, Statewide, LA (DOTD) – Bridge inspector responsible for the site assess te or timber piles). He documented current conditions and geometric data for the | ments of 50 off-system e load ratings. |
| 07/19 – 10/20 | South Carolina E and load rating in substructure eleme documented current | Department of Tra- spections of 70 o ents and concrete nt conditions, defe | ansporta n-system box culv cts/dama | tion, Bridge Load Rating and Evaluation Services, Statewide, SC – Bridge and off-system bridges consisting of concrete and steel superstructures wit verts. Inspections were performed using the AASHTO Manual for Bridge E ge, and geometric data for the load ratings. | inspector for the NBIS h concrete and timber valuation (MBE). He |
| 06/19 | Honbarrier Drive load rating site ass was performed usi the load ratings. | e over Rocky Cree essment of this 3-s ng the AASHTO 1 | e k Bridg pan prest Manual fe | e Assessment and Load Rating, Greenville, SC (private client) – Bridge insperessed concrete channel beam off-system bridge. The bridge had been closed to to bor Bridge Evaluation (MBE). He document current conditions, defects/damage, | ctor responsible for the raffic. The assessment and geometric data for |

| Firm employed by TRC Engineers, Inc. | | | | | | |
|--------------------------------------|---|---------------------|---|--|----------------------------------|--|
| Name Sharath | Chandra Ranganat | h, PE | Years of experience with this employer | | <1 | |
| Title Project Engineer | | | Years of experience with other employer(s) | | 9 | |
| Degree(s) / Years | / Specialization | | M.S. / 2015 / Civil Engineering | | | |
| - | - | | B.S. / 2012 / Civil Engineering | | | |
| Active registration | n number / state / exp | iration date | #PE.0049283 / LA / 03-31-2025 | | | |
| Year registered | 2019 | Discipline | Structural Engineering | | | |
| | | | Other Pertinent Training / Certifications | | | |
| $C_{autua} = t_{ual} (a) / 1$ | buicf description of m | | ⁴ HWA-NHI-130056 - Safety Inspection of In-Service Brid | ges for Professional | Engineers, 9/2022 | |
| Experience detec | Experience and ave | esponsionnues | bridge hispector (saushes wirk #5) | as" "designed a | indors" "designed | |
| Experience dates | Experience and qua | unications relev | he to the proposed contract; <i>i.e.</i> , designed drama | ige, designed g | profiles, designed | |
| (mm/yy–mm/yy) | Hornondo do Soto Bri | xperience date | sinni River Inspection West Memphis AP and Memph | his TN Assigned | PR(S). | |
| 08/23-09/23 | completion of a hands- | on structural insp | ion of the two main arch truss spans which included cable | les, ties and upper c | hord members with the help of | |
| | man-lift. He also assiste | ed the UAS inspec | on team with organizing and reviewing data. | in, in the second s | r | |
| | OSARC Bridge Inspec | ction, Statewide N | sissippi – Assigned as an assistant team leader under this co | ontract which involv | ed the inspection of 178 bridges | |
| 03/23-05/23 | consisting of complex bridges as well as timber substructures. Specifically, he participated in the inspection of 22 bridges, four of which involved his | | | | | |
| | within 30 days of the ir | a non-redundant s | el tension member (NSTM) rail car bridges. He complied | 11 bridge inspection | n reports which were submitted | |
| | Freeo Creek Relief St | ructures, Ouachi | Co, AR – Project involved the replacement of four bridge s | tructures along SH 7 | 7. Lead engineer responsible for | |
| 06/19 02/20 | analysis and design of the curved steel girder unit (3 deg curve, 7.6% superelevation and 20 deg skew) using LEAP Bridge Steel software and the prestressed | | | | | |
| 00/19-02/20 | square piles using LPILE and RC Pier software. He also performed the hydraulic design for the project which included scour analysis and report | | | | | |
| | compilation. | - Creater and Lan | Cuesh Duides Deple coments Columbia and Union Cou | nting AD Duringt | | |
| 04/20-02/21 | 3 bridges Responsible | for the entire proj | t design and detailing effort which included precast prestr | essed concrete girde | er units using RC Pier software | |
| 01/20 02/21 | and pile design using L | PILE software. He | as also involved in CWP and performed a single mode sei | smic analysis for each | ch structure. | |
| | Big Creek, Little Pine | y Creek, and Big | reek Branch Structure, Lee and Monroe Counties, AR - | - Project Engineer d | uring the replacement design of | |
| 02/20-11/20 | three bridge structures along State Highways 78, 238 and 259. Designed precast prestressed concrete girder units (40 deg skew) using LEAP Bridge | | | | | |
| | Concrete and pipe piles | using RC Pier, LP | E and Midas Section Designer for moment curvature analys | sis. Also performed t | he single mode seismic analysis | |
| | NYSTA Syracuse Rur | ndled Bridges Sv | cuse. $NV - Design engineer during the design of three replaced by the second secon$ | lacement continuous | s span structures along the New | |
| 11/17 01/19 | York State Thruway. | His role included | perstructure design using LEAP Bridge Concrete (CON | N/SPAN). He also | performed railroad load rating | |
| 11/17-01/18 | assessments, verified v | ertical clearance g | metry, estimated steel weights, and conducted preliminar | y calculations for the | he Spring Street Superstructure | |
| | Replacement project. | | | | | |

| Firm employed by TRC Engineers, Inc. | | | | | | | |
|--------------------------------------|---|----------------------------|-----------|---|-------------------------------------|--|--|
| Name Brittany Smith, P.E. | | | | Years of experience with this employer | 6 | | |
| Title Civil Engineer | | | | Years of experience with other employer(s) | 3 | | |
| Degree(s) / Years | / Specialization | | B.S. | / 2015 / Civil Engineering | | | |
| Active registration | n number / state / exp | iration date | #024 | 4915 / WV / 12-31-2024 | | | |
| Year registered | 2021 | Discipline | Civi | l Engineering | | | |
| | | | Othe | r Pertinent Training / Certifications | | | |
| | | | FHW | A-NHI-130056 - Safety Inspection of In-Service Bridges, 8/2018 | | | |
| Contract role(s) / 1 | brief description of re | esponsibilities | Brid | A-NHI-150081 - LKFD For Highway Bridge Superstructure, 2010 | | | |
| Experience dates | Experience and aug | lifications relev | vant to | the proposed contract: <i>i.e.</i> "designed drainage" "designed g | urders" "designed | | |
| (mm/vv_mm/vv) | intersection" etc. F | xperience dates | s shoul | d cover the time specified in the applicable MPR(s) | nucro, acorgnea | | |
| 04/22-07/22 | West Virginia Depar | tment of Highwa | vs, Ble | ennerhassett Island Bridge, Parkersburg, WV – Bridge inspector du | uring the routine and in-depth | | |
| 04/24 | inspections of tied arch | h bridge over the K | Kanawha | a River. She helped write the inspection reports, develop element level dat | ta, and update the SI&A coding. | | |
| | Franklin County Eng | ineer's Office, Ge | eneral F | Engineering Services Contract, Franklin County Bridge Inspection, F | Pranklin County, OH – Bridge | | |
| 11/20 | inspector for the routin | e inspections and | updatir | updating of inspection reports for 54 off-system bridges in three townships. She inspected the steel beams, | | | |
| | concrete slabs, and concrete I-beams for single and multi-span bridges on an accelerated schedule. She wrote the inspection reports in AssetWise. | | | | | | |
| 02/20-06/20 | superstructures using AASHTO BrR software and LRFR, and timber pile substructure units using Excel and STAAD. She generated the ratings and reports | | | | | | |
| 02/20 00/20 | for over 50 bridges. | | | | | | |
| 10/10 02/20 | South Carolina Depa | rtment of Transp | ortatio | n, Bridge Load Rating, Statewide, SC - Load Rating Engineer using | AASHTO BrR and LRFR for | | |
| 10/19-03/20 | concrete slab superstrue | ctures, load rating | substrue | ctures, issuing of posting recommendations, and updating the NBI data. | | | |
| | West Virginia Depart | ment of Highway | ys, Dist | rict 6, I-70 Bridge Rehabilitation, Ohio County, WV - Bridge inspec | ctor for the rehabilitation of 26 | | |
| 10/18-07/19 | bridges along Interstate | e 70. She inspecte | ed these | bridges to determine the required types of repairs needed. She load repairs upgrades necessary for the Greenwood Comptony bridge. She d | ated each bridge according to | | |
| | Elby's bridges. | is and determined | suengi | neming upgrades necessary for the Greenwood Cemetery bridge. She c | necked the load fattings for the | | |
| | West Virginia Depart | ment of Transpor | rtation, | District 9, Kanawha Falls Emergency Inspection - Fayette County, | WV – Bridge inspector for the | | |
| | Kanawha Falls Bridge v | which is a 90-year-o | old, thre | e-span, riveted through truss over the Kanawha River. Following the fai | lure of a floor beam connection, | | |
| 11/10 10/10 | the bridge was closed t | to all traffic. She | was tas | ked with participating in an emergency inspection of the floor beam to lo | ower chord connections for the | | |
| 11/18-12/18 | truss lower chords and | stringers looking | for crit | to advise it additional emergency repairs were required. She also perform | e from reopening A hands-on | | |
| | inspection of the lower | chords and floor b | beam to | lower chord connections was conducted. She developed an inspection r | report outlining additional areas | | |
| | of concern. | | | · · · | | | |

| Firm employed | by TRC Engineers, I | Inc. | | | | | | |
|---------------------------------|---|--|---|----------------------------------|--|--|--|--|
| Name John Kinsey, CWI, ASNT III | | | Years of experience with this employer | 15 | | | | |
| Title Corpor | ate NDT III | | Years of experience with other employer(s) | 25 | | | | |
| Degree(s) / Year | s / Specialization | | Certificate / US Navy School for Nondestructive Testing | | | | | |
| Active registrati | on number / state / exp | biration date | None | | | | | |
| Year registered | N/A | Discipline | N/A | | | | | |
| C | | L | Other Pertinent Training / Certifications | | | | | |
| | | | ASNT ACCP, Certified Professional Level III - Magnetic Particle Testing (#199 | 992, expires 12/2028) | | | | |
| | | | ASNT ACCP, Certified Professional Level III - Liquid Penetrant Testing (#199 | 992, expires 12/2028) | | | | |
| | | | ASNT ACCP, Certified Professional Level III - Radiographic Testing (#19992, | expires $12/2028$) | | | | |
| | | | ASNT ACCF, Certified Froiessional Level III - Ontasonic Testing (#19992, ex ASNT Level III – Magnetic Particle Testing (#19992 expires 12/2028) | piles 12/2028) | | | | |
| | | | ASNT Level III – Liquid Penetrant Testing (#19992, expires 12/2028) | | | | | |
| | | | ASNT Level III – Radiographic Testing (#19992, expires 12/2028) | | | | | |
| | | | ASNT Level III – Ultrasonic Testing (#19992, expires 12/2028) | | | | | |
| | | | AWS-QC1 Certified Welding Inspector (#88030181, expires 3/1/2027) | | | | | |
| | | •1 •1•• | AWS Section 12, Lead Fracture Critical Member (FCM) Qualified | | | | | |
| Contract role(s) | / brief description of re | esponsibilities | NDE Task Leader / ASNT Level III (satisfies MPR #7) | • • • • // • • • | | | | |
| Experience date | s Experience and qua | alifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | girders", "designed | | | | |
| (mm/yy–mm/yy |) intersection", etc. E | experience dates | s should cover the years of experience specified in the applicable M | PR(s). | | | | |
| | CPB & John Holland | Joint Venture, W | est Gate Tunnel and Bridge Project - City Center By-Pass Route, Melbourn during the fabrication of seven (7) bridges and related temporary structures use | d during the erection phase for | | | | |
| | this \$5.1B (USD) project. The total weight of the steel fabrication is estimated to exceed 14.000 tons. Mr. Kinsey serves as the overall Project Manager | | | | | | | |
| 07/21-Present | responsible for leading a team of more than 35 Expatriate and Chinese managers, supervisors, inspectors, and administrative staff serving in both the | | | | | | | |
| | organization's fabrication and quality management divisions. Additionally, Mr. Kinsey directs the fabricator's (ZPMC - Nantong, China) workforce of | | | | | | | |
| | more the 500 workers a | as the Joint Ventur | e's Senior Representative in China. | | | | | |
| | Archer Western / de l | Moya Joint Ventu | ire, 1-395 Revitalization Design-Build Project, Miami-Dade County, FL - Re | esponsible for the QA oversight | | | | |
| | shops in China and one | shops in China and one in Italy for use in constructing this \$818M Design-Build project in south Florida. The project owner is FDOT. Work was performed | | | | | | |
| 12/19-4/21 | to ensure that shop QC | to ensure that shop OC teams performed the work in compliance with AWS D1 codes. project specifications and contract documents, including the approved | | | | | | |
| | Inspection and Testing | Inspection and Testing Plan (ITP). Associated work included: vendor audits, material receiving, fabrication, welding, NDT, dimensional control, blasting | | | | | | |
| | and coating, functional | testing, and shippi | ng preparations as directed by the client. | | | | | |
| | LaGuardia Airport, I | LaGuardia Airpor | t Central Terminal & Roadway Bridge Replacement Project, Flushing, Que | ens, NY - Served as the Project | | | | |
| 05/17 08/21 | Lead Technical Consul | tant for Welding I | nspection and inondestructive Testing. He was responsible for the supervision and ut the USA Canada China Cormany and France. He served as the responsible | a direction of Inspection teams | | | | |
| 03/17-00/21 | D1.1 Welding Inspecti | on and Nondestrue | tive Testing (NDT) throughout the fabrication process for the new LaGuardia | Airport Terminal Building and | | | | |
| | eleven (11) Bridges ass | sociated with the a | pproaching roadways and pedestrian walkways. Mr. Kinsey served as the client | t's primary point of contact and | | | | |

| | was responsible for all shop inspection activities and special inspection reporting task management. For NDT, he served as the Project NDT Level III and |
|---------------|--|
| | Subject Matter Expert for the client's team for whom he assisted in claim resolution and technical solutions. |
| | San Francisco Oakland Bay Self-Anchored Suspension Bridge, San Franscisco, CA - Served as the Project NDT Level III during both the fabrication |
| | and erection phases which involved him with the development and validation of specialized test procedures for evaluating components not covered by |
| 01/09 -06/12 | existing codes and standards. The NDT methods for which Mr. Kinsey provided expertise, direction or supervision included the application of specialized |
| | techniques within MT, PT, RT, UT, VT, and AE. Specialized NDT procedures were developed for partial joint penetration welds, steel castings, steel |
| | tension rods, and concrete embed tension cables, in addition to monitoring and measuring crack tip progression under test conditions. |
| | California Department of Transportation (Caltrans), Materials Engineering and Testing Services, Statewide – Functioned as the contracts |
| | designated nondestructive testing (NDT) Level III for new construction and maintenance projects. As the state's NDT Level III, he recommended test |
| | methods and developed specialized testing procedures to address the specific needs of various projects. He also assisted engineers in evaluating materials |
| | during construction, emergency events, forensic studies, and maintenance evaluations. These evaluation projects included fire-damaged bridges and |
| 05/00 - 01/09 | tunnels, failed structures, seismically compromised roadway and bridge components, vintage bridge steel for retrofit work, and assessing newly proposed |
| | construction techniques and methods. Mr. Kinsey developed and coordinated the application of specialized NDT techniques for the methods he was |
| | qualified for, in addition to supervising and directing the activities of retained subject matter experts for methods and techniques outside his specific area |
| | of expertise. The NDT methods for which Mr. Kinsey provided expertise, direction, or supervision included the application so specialized techniques |
| | within Magnetic Particle (MT), Liquid Penetrant (PT), Radiographic (RT), Ultrasonic (UT), Visual (VT), Acoustic Emissions (AE), Infrared, Leak Testing |
| | and Ground Penetrating Radar. |

| Firm emplo | yed by TRC Engineers, Inc. | | | | | | | |
|--------------|---|---|-----------------------------------|--|--|--|--|--|
| Name Xi | anzhi ("Sage") Liu, P.E. | Years of experience with this employer | 13 | | | | | |
| Title Str | uctural Engineer | Years of experience with other employer(s) | 5 | | | | | |
| Degree(s) / | Years / Specialization | M.S. / 2003 / Civil Engineering | | | | | | |
| | | M.S. / 1999 / Coastal Engineering | | | | | | |
| A | | B.S. / 1996 / Civil Engineering | | | | | | |
| Active regis | stration number / state / expiration date | #PE.00347277 LA709-30-2025 | | | | | | |
| Year registe | ered 2009 Discipline | Civil Engineering | | | | | | |
| Contract rol | le(s) / brief description of responsibilities | Load Rating Task Leader / Bridge Rehabilitation Design | | | | | | |
| Experience | dates Experience and qualifications rel | evant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed give | rders", "designed | | | | | |
| (mm/yy–mi | n/yy) intersection", etc. Experience dat | es should cover the years of experience specified in the applicable MI | PR(s). | | | | | |
| 11/23-Pres | H.005121 LA 1/LA 415 Connector, W | est Baton Rouge, LA - Served as the bridge task lead to develop span layout, bridge | type selection, and preliminary | | | | | |
| | H 013284 L evol 1 Toll Ecosibility Stu | te for a mix of long span steel girders and prestressed LG girders spans. | roposed alignments for the 3rd | | | | | |
| 11/19-03/ | 20 cross conceptual study, and investigate | d bridge superstructure and substructure types for the cable-staved river crossing m | ain spans and approach spans. | | | | | |
| | Using RM Bridge to create the renderin | g of the proposed cable-stayed bridge. Evaluated advantages and disadvantages for | the proposed alternates. | | | | | |
| | Contract No. 4400020156 (H.011965. | Contract No. 4400020156 (H.011965.5), LA 47 IWGO Bridge Rehabilitation, New Orleans, LA (DOTD) - Served as bridge engineer responsible for | | | | | | |
| 0.6/04 D | inspection and rehabilitation of the main | inspection and rehabilitation of the main spans for this tied arch truss bridge included in the state historic bridge management plan. Responsibilities included | | | | | | |
| 06/21-Pres | a review of inspection reports, load ra | a review of inspection reports, load rating results, identifying deficient elements and developing repair plans for the rehabilitation of various bridge components including main truss members, false chord hearings, lateral bracing members, and arch tig-girders. He has also answered RFIs and reviewed | | | | | | |
| | shop drawings during the construction | bers, raise chord bearings, rateral bracing members, and arch ne-griders. He has als | b answered KFIs and reviewed | | | | | |
| | Walter O. Bigby Carriageway, Bossie | r City, LA – Served as the lead engineer for superstructure design of the main steel g | girder spans. He has performed | | | | | |
| 01/19-05/ | design modeling, analysis and plan de | design modeling, analysis and plan development for the main continuous curved steel girder spans with maximum span length of 300'. He has utilized | | | | | | |
| 01/19-03/ | several structural analysis software pac | several structural analysis software packages including LUSAS, MDX for structural analysis. He also is responsible for reviewing shop drawings, erection | | | | | | |
| | plans for the steel girder superstructure | MIK Duine) Calde Devict I & (DOTD) Consults the land on since for every | meters design of the second state | | | | | |
| 01/13-07/ | 14 S.P. No. 003905 – 1-49 North (1-220 to bridge alternative. He developed calcul | 5.F. 140. 003905 – 1-49 INOFUN (1-220 to IVILK Drive), Caddo Parisin, LA (DOID) – Served as the lead engineer for superstructure design of the segmental bridge which is a 15-span, precast post-tensioned segmental bridge with total | | | | | | |
| 05/17-12/ | ¹⁷ length of 3,030 ft. He also developed th | e complete as-designed and as-built load rating reports for the superstructure of the | ramp EN bridge. | | | | | |
| | S.P. No. 700-24-0031 – US 190 Missis | sippi River Bridge Rehabilitation, Baton Rouge, LA (DOTD) - Performed struct | ural analysis for the purpose of | | | | | |
| | rehabilitating this major truss bridge. F | rehabilitating this major truss bridge. Functioned as an inspector performing a special condition inspection of the main truss. Performed at an accelerated | | | | | | |
| 03/11-01/ | 12 pace, Mr. Liu reviewed existing plans a | pace, Mr. Liu reviewed existing plans and drawings, inspected and assessed deteriorated structures and developed plans for repair locations, repair schemes | | | | | | |
| | and details, which include repair/replace | and details, which include repair/replacement of main truss members, lateral bracings and expansion bearings, and adding new safety cable system. He | | | | | | |
| | bridge repair items. Mr. Liu reviewed to | he submitted shop drawings for structural repair and answered RFIs from the contra- | ctor during construction. | | | | | |
| | Contract No.: 4400004920 (H.00985 | 9.5), Complex Load Rating, Statewide, LA (DOTD) – Served as the lead er | igineer for superstructure and | | | | | |
| 04/16-03/ | 20 substructure load rating for multiple c | omplex bridges, including LA1 over Atchafalaya River (truss), LA 47 IWGO B | ridge (tied arch truss) US 90B | | | | | |
| 0 F/ 10 03/ | Riverbound Expressway Bridge (dec | Riverbound Expressway Bridge (deck truss) and the following movable bridges: Intracoastal Waterway Bridge at Ellenders (vertical lift), LA 654 | | | | | | |
| | over Bayou LaFourche (vertical lift), | LA 05/ over Bayou Larourcne (vertical lift), LA 319 Intracoastal Canal Bridge | (Dascule), LA 85 over Patout | | | | | |
| | | IRC Engineers, Inc. | Page 34 of 186 | | | | | |

| | Bayou (swing), Local Road over Bayou Terrebonne (swing), and Bridge over Bayou Teche at Adeline (swing). He performed inspections and load |
|-------------|--|
| | ratings, and developed load rating reports. He also led the efforts to analyze several bridges with unique configurations and high complexities. During his |
| | performance of the work, he has utilized several structural analysis software packages including LUSAS, MIDAS Civil and AASHTOWare BrR for |
| | structural analysis, validations, and load ratings. |
| | 3 rd Street Movable Bridge Load Rating and Rehabilitation, San Francisco, CA (City of San Francisco) – Served as the lead for superstructure load |
| 10/16 11/17 | rating of this Strauss Bascule truss bridge. Using LUSAS software, he performed a detailed 3-D Finite Element analysis of the bridge which has unique |
| 10/10-11/17 | configurations of traffic lanes and sidewalks. He also performed structural analysis and generated governing load cases for truss member, floor beam, |
| | stringers and gusset plate ratings. |
| | Bayou Lafourche Movable Bridge Inspections, Lafourche Parish, LA (off-system bridge inspections) – Served as bridge engineer for the special |
| 09/14-03/15 | emergency inspections of two pontoon off-system bridges. He led the inspection teams, reviewed as-built plans, performed inspections, and developed |
| | repair recommendation and cost estimates based on the bridge conditions. |
| | S.P. No. H.002562 Bayou Lafourche Movable Bridge Rehabilitation, St Bernard Parish, LA – Bridge engineer for the design of the new operator's |
| 09/15-11/15 | house as part of the vertical lift bridge rehabilitation. He designed the elevated operator's house foundation slab supported on battered piles with |
| | consideration of hurricane surge related load conditions. |
| | MLK Jr. Bridge over Maumee River Rehabilitation, Toledo, OH - Performed Finite Element analysis on the MLK Jr. bascule bridge using in house |
| 05/07-08/07 | Finite Element software during the post-design phase. Analyzed the structural panel for the reduced counter-weight load cases to ensure the current |
| | structure meeting temporary operation requirements. |
| | Contract No.: 4400004920 (H.012485.1), Off-system Bridge Load Rating (DOTD) - Technical lead for the load rating of more than 400 off-system |
| 11/19-10/20 | bridges. He performed load rating, QC/QA of the load rating for superstructure and substructures, develop load rating reports, and propose repair options |
| | for bridges with posting drop. |
| | S.P. No. 006-01-0018 - Huey P. Long Mississippi River Bridge Widening, Jefferson Parish, LA (DOTD) – Performed structure modeling of both the |
| 11/07 08/08 | existing and widened truss; reviewed existing shop drawings; assisted with determining the existing truss geometry and performed camber analysis for |
| 11/07-00/00 | fabrication of the widening truss. Led the truss monitoring task during the truss erection. Worked closely with bridge monitoring teams, and predicted |
| | truss member stresses under calibration loads, dead loads and erection loads for various construction stages. |
| | Phill G. McDonald Bridge of I-64 over Glade Creek, Raleigh County, WV (WVDOH) - Served as the structural lead for the truss analysis, gusset plate |
| 08/10-05/14 | rating, and bridge monitoring for this structure which is one of the highest deck truss bridges in the world (560'-784'-560' spans). He performed a detailed |
| | 3-D Finite Element analysis of the bridge using LUSAS software, generated governing load cases for gusset plate ratings, developed a rating spreadsheet |
| | in accordance with FHWA publications for gusset plate rating, and quality controlled the final rating report. He also led efforts to develop bridge monitoring |
| | schemes, deploy sensors, and perform data analysis and interpretation for the purpose of diagnosing and rehabilitating abnormal bridge expansion and |
| | racking. He performed quality control reviews of the final plans for rehabilitation design. |

| Firm employed by TRC Engineers, Inc. | | | | | |
|--|---|--|--|--|--|
| Name Michael Paul, P.E. | | | Years of experience with this employer | 16 | |
| Title Project N | Aanager/Senior Bridg | ge Engineer | Years of experience with other employer(s) | 6 | |
| Degree(s) / Years | / Specialization | | M.S. / 2003 / Civil Engineering | | |
| | - | | B.S. / 2000 /Civil Engineering | | |
| Active registration | n number / state / exp | oiration date | #PE.0032172 / LA / 03-31-2026 | | |
| Year registered | 2006 | Discipline | Civil Engineering | | |
| | | | Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2/2007 FHWA-NHI-130092 - Fundamentals of LRFR and Applications of LRFR for B LADOTD Highway Safety Manual Workshop, 2011 FHWA-NHI-130078 - Fracture Critical Techniques for Steel Bridges, 8/2015 ASBI Grouting Training Certificate, 2012 LADOTD Maintenance & Rehabilitation of Historic Bridges Training Course, 7 FHWA-NHI-132082 – LRFD for Highway Bridge Substructures FHWA-NHI-134006 – Utility Coordination for Highway Projects | ridge Superstructures 2016 | |
| Contract role(s) / | brief description of r | esponsibilities | Bridge Rehabilitation Design Task Leader | | |
| Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed | | | | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. H | E Experience da | tes should cover the time specified in the applicable MPR(s). | | |
| 01/21-07/23 | S.P. No.: H.003931, I-10 Calcasieu River Bridge P3 Project, Lake Charles, LA (DOTD) - Project engineer responsible for development of the Structures, Demolition, and Railroad Technical Provisions that were included in the RFP document. Mr. Paul also conducted the review and evaluation of Developer Proposals. The project extends from the I-10/I-210 west interchange to the Ryan Street exit ramp and consists of replacing the I-10 Calcasieu River Bridge using P3 project delivery, including the reconfiguration of interchanges and interstate widening. | | | | |
| 06/21 – present | S.P. No. 44-17264; H.011965.5, LA 47 over IWGO Rehabilitation, New Orleans, LA (DOTD) - Project Manager for structural rehabilitation, cleaning and painting of this historic bridge (1,248 feet of steel main spans with cantilevered arms and tied-arch). Led and performed the development of final plans for the repair and rehabilitation of all substructure and superstructure elements using LA Specs for Roads and Bridges, LA DOTD BDEM, and AASHTO MBE. Led the bridge inspection in advance of final design. Directed sub-consultants for 3D surveying, truss design, traffic management and control plans. Project manager for the on-going Construction Related Services for contractor RFIs, submittals, and construction matters. | | | | |
| 03/20-Present | S.P. No.: H.005121.5, preliminary plans for the lane roadway, bridges developed the Evaluation the conceptual alternation with the Traffic Engine areas and modification | LA 1/LA 415 Co his new 2.7 mile co over the Gulf Intr on of Single Versu e alignment when is evering subconsultar of the LA 1 supers | nnector CMAR, West Baton Rouge Parish, LA (DOTD) - Deputy project morridor between LA 1 near LA 988 (Beaulie Lane) and I-10 at the 415 interchang accastal Waterway and flyover ramps at the LA 1 connection. Served as consis Dual Bridge Options Over the GIWW report. Worked with stakeholders for that was determined the EA Report alignment was no longer feasible due to recent on and Roadway Geometric Designers to develop lane configuration and geometry street layout. Mr. Paul also developed the Project QA/QC Plan, Design Criteria and Roadway Context and Roadway Co | anager for the development of e. The project includes a four- ceptual structural designer and e development and selection of development. Mr. Paul worked y at the LA 1 and LA 415 tie-in nd Project Schedule. | |
| 06/15-Present | Walter O. Bigby Carr curved, haunched 4-sp | riageway, Bossier an (185'-225'-300 | City, LA - Bridge task leader for the design of a new bridge that will be 1,520' lo '-225') steel plate I-girder main span continuous unit over the Union Pacific R | ng and consist of a horizontally Railroad and BT-72 prestressed | |

| | concrete girder approach spans. The bridge will consist of 4-12' travel lanes, a 4' left shoulder, and a 9'-8" right shoulder, and have an out-to-out width of |
|---------------|--|
| | 66'-2" for the majority of the bridge length. The northern portion of the bridge will flare out to a total width of 70' to accommodate a turning lane. The |
| | bridge substructures will consist of reinforced concrete piers and deep prestressed precast concrete pile foundations. As the bridge is located adjacent to |
| | the Bossier Levee, Mr. Paul also took the lead in working with the US Army Corps of Engineers to develop the 408 permit request. Project manager for |
| | the on-going Construction Related Services for contractor RFIs, submittals, and construction matters |
| | S.P. No.: H.001234.5, LA 1 Port Allen Canal Bridge Replacement, Port Allen, LA (DOTD) - Detour Bridge Study – Lead engineer for the |
| | development of a detour bridge study where two different detour alignments were developed. Each consisted of a 2,500' detour bridge over the Intracoastal |
| | Waterway where the proprietary Acrow system was considered and where adequate vertical clearance was provided. Conceptual bridge designs were |
| | developed for each alignment. <u>Rehabilitation Study</u> - Lead engineer in conducting a Stage 0 Feasibility Study that investigated three different bridge |
| | rehabilitation options and one bridge replacement option for the existing twin bridges that carry LA 1 over the Intracoastal Waterway. As part of the study, |
| | Mr. Paul was involved with the development of new roadway alignment options, construction phasing, traffic control schematics, investigating |
| 12/10-Present | rehabilitation options for the existing bridge and preliminary design of a new bridge option. The rehabilitation and replacement options also investigated |
| | and proposed the use of Accelerated Bridge Construction techniques. Preliminary & Final Design – Project Manager in developing the Stage 3 preliminary |
| | (bridge and roadway) and final design (roadway only) and associated plans which included roadway, traffic control, maintenance of traffic, ITS, traffic |
| | signal, MSE wall, highway lighting and bridge plans. Coordinated with UPRR, the US Army Corps of Engineers, the USCG, and the Port of Baton Rouge. |
| | A traffic analysis was conducted with the submittal of a Level 3 Transportation Management Plan. The project included a 1.5-mile "superstreet" portion |
| | that consists of signalized and un-signalized J-turns. The proposed LA 1 SB and LA 1 NB bridges are 2,680' and 2,700', respectively, and consist of PPC |
| | girder approach spans and 3 span continuous steel I-girder spans over the Intracoastal Waterway. |
| | Contract No. 4400004920 (H.009859.5), Complex Load Rating and Inspection, Statewide, LA (DOTD) – Engineer responsible for load rating for the |
| 05/16 - 02/18 | Bayou Teche swing bridge, he performed AASHTOWare BrR model and load rating of the floorbeams and stringers. He used Midas and hand calculations |
| | to analyze the main girders, main girder splices, pivot girder, bent caps and metal grid decking. |
| | Department of Energy Bridge Inspections and Load Ratings, Bayou Choctaw, Plaquemine, LA – Project Engineer conducting bridge load rating |
| 11/14 - 12/14 | utilizing the AASHTO Manual for Bridge Evaluation with LRFR methodology. The bridge crosses the East-West Canal and is an 84' single span |
| | prestressed concrete girder superstructure consisting of a 3-girder cross section. |
| 08/12 - 06/13 | S.P. No.: H.002562, Bayou La Loutre Bridge Rehabilitation, St. Bernard Parish, LA (DOTD) – Bridge engineer for the design and conceptual |
| | development of the fender and pier protection system for this vertical lift bridge. |
| | S.P. No. 700-24-0031, US 190 over Mississippi River, Bridge Rehabilitation, Baton Rouge, LA (DOTD) – Bridge Inspector for the special inspection |
| 06/11 - 06/12 | of this 12,200 feet long bridge with a five span cantilever steel truss. Mr. Paul led the truss inspection. The inspection involved the use of special access |
| | equipment such as manlifts and climbing. Mr. Paul reviewed existing plans and drawings, inspected and assessed deteriorated structures and developed |
| | repair locations, repair schemes and details. |
| | S.P. No.: H.003886.5, 1-49 & 1-220 Interchange, Shreveport, Caddo Parish, LA (DOTD) - Deputy project manager, design coordinator and Baton |
| | Rouge team leader on this new, multi-lane divided roadway, 4-level interchange project. Mr. Paul served as conceptual and structural designer and worked |
| | with the roadway design consultant in developing span arrangements, structure depths, pier concepts and roadway geometry for a dual bridge design that |
| 07/06-10/19 | includes post-tensioned segmental concrete and steel box girder superstructures. Mr. Paul was also involved with the development of the Project Design |
| | Criteria, development and implementation of the Project Quality Control Management plan and working with the team architect to develop aesthetic bridge |
| | design schemes. The project consisted of 5 new bridges (Ramp EN 3,0/0', Ramp SE 3,300', Ramp WN /00', I-49 NB and SB over MLK Dr. 462' each) |
| | and 2 bridge widenings (1-220 over Russell Rd. 522.5 each). The Ramp EN, SE and WN bridges consist of a dual design with precast segmental post- |
| | tensioned concrete and steel trapezoidal box girder superstructure alternates. |
| 08/07-02/09 | S.P. No.: 450-09-0026, 1-10 Mississippi River Bridge at Baton Rouge Renabilitation (DOTD) - Developed the design documents and plans for floor |
| 00/07-02/07 | beam and noor beam connection disformional crack retroit repairs. |

| Firm employed by | y TRC Engineers, | Inc. | | | | |
|--------------------|---|--|---|---|--|--|
| Name Meiwen | Guo, PhD, P.E. | | Years of experience with this employer | 1.5 | | |
| Title Senior S | tructural Engineer | | Years of experience with other employer(s) | 23 | | |
| Degree(s) / Years | / Specialization | | Ph.D. / 1995 / Structural Engineering | | | |
| | 1 | | M.S. / 1988 / Structural Engineering | | | |
| | | | B.S. / 1982 / Civil Engineering | | | |
| Active registratio | n number / state / exp | piration date | #PE.0038847 / LA / 03-31-2025 | | | |
| Year registered | 2014 | Discipline | Civil Engineering | | | |
| Contract role(s) / | brief description of r | responsibilities | Bridge Rehabilitation Design | | | |
| Experience dates | Experience and qu | alifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "design | ed girders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. l | Experience dates | should cover the years of experience specified in the applicab | e MPR(s). | | |
| 11/21-09/23 | I-405, Renton to Bell | evue Widening an | I Express Toll Lanes Project, Seattle, WA - Led the design efforts in re | taining wall final design. Wall types | | |
| 11/21-07/23 | include CIP wall, MSI | E wall, and soldier p | ile wall (cantilever and tied). | | | |
| | SR-417 Widening Na | rcoossee Road to S | R 528 (Sign Structures), Orlando, FL - The main task involved design of | median uprights supporting tri-chord | | |
| 00/00 02/01 | sign trusses in both be | sign trusses in both bounds. The client provided standard plans that had never been used before with major flaws. For instance, the sign trusses were | | | | |
| 08/20-03/21 | connected to web members of the median upright frame which is parallel to roadway with details unable to transfer axial forces of truss chords, while the | | | | | |
| | sign trusses are designed assuming moment connections at both ends. Redeveloped the truss-upright connection concept, performed structural design, and | | | | | |
| | IFK International A | irnort Project New | \mathbf{v} Vork City NV Project involved the design of seven bridges around the | a new Terminal 1 All structures are | | |
| | plated girder bridges m | JFK International Airport Project, New York City, NY – Project involved the design of seven bridges around the new Terminian 1. All structures are plated girder bridges mostly with steel integral bent caps. Participated in the preliminary design of superstructures and 60% design of foundations, including | | | | |
| 08/19-07/20 | columns and foundations that each supported three bridges at two levels. Developed connection concents of outrigger cans and seismic details of nile can | | | | | |
| | and columns. | | | | | |
| | Purple Line P3 Proje | ect. Montgomery a | nd Prince George's Counties, MD - Designed and detailed a 190-foot sir | gle span steel trapezoidal box girder | | |
| | bridge. Four requirements made this signature bridge unique: 1) Vibration Control: Without dynamic analysis under train traffic the natural frequency for | | | | | |
| | vertical vibration shall not be less than 2.5Hz: 2) Aesthetics: the girders shall look like an arch in elevation view which complicates design and detailing. | | | | | |
| 07/16-10/18 | 3) Internal Redundancy: the girders are designed and detailed as Fracture Critical Member (FCM), internal redundancy are required as well: 4) Rail- | | | | | |
| | Structure Interaction (RSI): RSI analysis was required and effects of RSI shall be considered in design. Among other involvement on the project involved | | | | | |
| | in stress evaluation of Direct Fixation Fasteners on a tightly curved steel bridge. | | | | | |
| 00/14.00/15 | SH183 Segment 2 Design-Build Project, Dallas, TX - Reviewed the substructure design and drawings for a 26-span structure. Designed and detailed | | | | | |
| 09/14-00/15 | multi column bent, hammer head bent, post tensioned C bent, and post-tensioned straddle bent with inverted T cap on another structure. | | | | | |
| | 118th Avenue Projec | t, Pinellas Park, F | - The project connects US-19 to Roosevelt Boulevard over 118th Ave. V | Vorked on the superstructures of two | | |
| 06/11-08/12 | key bridges: a spliced | BT girder unit on th | e 118th Avenue Viaduct, and a 12 span steel box girder flyover. The splice | l girder unit is three span with length | | |
| | of 511ft. This task invo | olved staged constru | ction analysis, erection sequence; pre-stressing strand and post-tensioning | endon layout; precast segment stress | | |
| | and strength, closure s | tress and strength d | ring construction and after completion, and PT anchorage. The span lengtl | of the steel box girder bridge varies | | |
| | from 140 ft to 302 ft. In | n addition to girder | esign, this work involved design of field splices, cross members, lateral bra | cings, stiffeners, bearings, expansion | | |
| | joints, and erection sec | quencing. The proje | t was canceled in August 2012 prior to 90% submittal and became part of | the Gateway project. | | |

| 04/13-08/14 | I-49 North Segment K Project, Shreveport, LA - The main component of this \$175 million project was the I-49/I-220 interchange. All three ramp structures on the project have a typical span around 245 ft. Developed the preliminary design and plans for one C-bent and two PT straddle bents and carried thru 60% submittal. Designed and developed drawings for a 127 ft cast-in-place end span that is a double cell box with a tapered deck variable width. |
|-------------|---|
| 01/14-07/14 | Rehabilitation of US-190 Bridge over the Mississippi River, Baton Rouge, LA - This through truss bridge carries rail traffic between two trusses and two highway lanes in each overhangs on floor beam outriggers. Most of the repair needs were under the deck. In addition to structural safety during repair, the challenge was construction access, taking out existing components and bringing in replacement pieces within a rail traffic down window while highway lanes were still open. Developed the design and details for structural steel repairs that included: tower column base repair; anchor bolt replacement; bearing replacement; strengthening of severely corroded gusset plates and lower lateral bracings. |
| 08/10-03/11 | US460 Connector Design-Build Project, Buchannan, VA - The main component of the project was the 1,700 ft Grassy Creek Twin Bridge. The CIP segmental spans are 269 ft 489 ft 269 ft. long designed by Janssen & Spaans. Performed independent review of the superstructure design. Developed a finite element global model for staged construction analysis to check the longitudinal design, and two transverse models to check deck design. LARSA was used on this task. |
| 12/08-08/09 | I-15 Widening Design-Build Project, Salt Lake City, UT - This \$200 million project is location right north of downtown SLC, the first project in the U.S. on which bridges were designed operational for a major earthquake event. Checked abutment design including seismic analysis. Developed details for diaphragms, shear keys and modular expansion joints, and designed foundations for sign structures and high mask light poles. |
| 11/07-05/08 | I-15 North Corridor Design-Build Project, Las Vegas, NV - Led the efforts in design and detailing of a three span box girder superstructure, including design for longitudinal flexure, transverse (overhang and deck slab), webs (shear), diaphragms, anchorages, and bearings. |
| 06/08-09/08 | Golden Ears Bridge P3 Project, Vancouver, BC, Canada – Involved in a major design change fora simple span plate girder bridge on a sharp curve, after the girders had been fabricated. The original design was based on line girder run. Grillage analysis predicted that the differential deflection between the outside and inside girders would be as much as 19 inches. To reduce the differential deflection, top and bottom flange lateral bracings were added. To minimize size of lateral bracings, the lateral diagonal bracings are oriented such that they are subject to net tension only. |
| 12/98-10/07 | Antelope Valley Revitalization Project, Lincoln, NE - The traditional project is near downtown Lincoln along the Antelope Creek. There are total of 10 new highway bridges and one railway bridge (replacement). Among them are eight post-tensioned slab bridges, one P/S beam bridge, one rolled beam (rail road) bridge, and one plate girder bridge. Mr. Guo worked on this project from conceptual design to final construction submittal. A key component of the project was the East Leg Bridge, a 1080 ft five span plate girder bridge on an "S" shaped alignment which brings six lanes from one side to the other side of a four track railroad corridor that is parallel to the roadway in general. Carried out steel design and detailing efforts, including a 124 ft steel box integral cap that straddles the rail tracks. A paper was presented at the 2009 World Symposium of Steel Bridges about this bridge. |

| Firm employed by | TRC Engineers, I | nc. | | |
|---------------------|--|---|---|--|
| Name Nichole | e Caiazzo, P.E. | | Years of experience with this employer | 9 |
| Title Bridge E | ngineer | | Years of experience with other employer(s) | 7 |
| Degree(s) / Years | / Specialization | | B.S., 2008, Civil Engineering | |
| Active registration | n number / state / exp | iration date | #PE.0041078 / LA / 03-31-2025 | |
| Year registered | 2016 | Discipline | Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130092 - Fundamentals of LRFR for Bridge, 2016 FHWA-NHI-132082 - LRFD for Highway Bridge Substructures, 2018 | |
| | | | FHWA-NHI-132010B - LRFD for Foundation Design, 2018 | |
| Contract role(s) / | brief description of re | esponsibilities | Load Rating / Bridge Rehabilitation Design | |
| Experience dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable MI | PR(s). |
| 05/23-Present | Ohio Department of T AASHTOWare BrR so | ransportation, V ftware. | AR-STW-Statewide Load Rating - Performing checks and load rating of reinfor | ced concrete slab bridges using |
| 11/19-12/20 | Contract No. 4400004920 (H.012485.1), Complex Off-system Bridge Rating and Evaluation, Statewide, LA (DOTD) – Load rating engineer responsible for the inspection and load rating of 346 off-system bridges (COSLAB, COPCSS). She performed load rating analysis using LRFR with AASHTOWare BrR for the superstructures and substructures (timber and concrete piles). She provided repair recommendations for bridges with 3-ton or closure ratings. | | | |
| 05/19-12/21 | South Carolina Department of Transportation, Bridge Load Rating and Evaluation Services – District 4, SC - Engineer-of-record, load rater and reviewer responsible for reviewing as-built plans and recent inspection reports, and completing load capacity ratings and related tasks for 60 on- and off-system bridges consisting of steel plate girder, prestressed cored slab, reinforced concrete flat slab, and reinforced concrete precast panel superstructures. The load rating was performed using AASHTOWare BrR in accordance with the SCDOT Load Rating Guidance Document and AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) and Load Factor Rating (LFR) methods, Also led the load rating OA process. | | | |
| 09/21-11/21 | City of Bossier City, Walter O. Bigby Carriageway – Bossier City, LA - Bridge engineer responsible for the review of shop drawings for the steel girder superstructure of a new 1,550-foot, 10-span bridge. The structure consists of a horizontally curved, haunched 4-span steel plate I-girder main span continuous unit over the Union Pacific Railroad and prestressed concrete bulb tee approach spans. | | | |
| 04/16-06/19 | Contract No. 4400004 and complex truss bridg Rating (LRFR) method Teche (swing bridge), (deck truss and steel p concrete slab approach concrete bent caps. Sh stringers, and concrete software. | 920 (H.009859.5) ges using AASHT(, and DOTD Polic LA 47 over IWG blate girder, floor spans and open st ne used AASHTO bent caps. Develo | On-system Complex Load Rating, Statewide, LA (DOTD) – Bridge engineer OWare BrR in accordance with the AASHTO Manual for Bridge Evaluation (MB ies and Guidelines for Bridge Rating and Evaluation. Bridges that she load rated O (tied arch, deck truss, steel & concrete girder, concrete slab) , US 90 Busin beams, stringers, gusset plates), and I-220 over Russell Road (steel plate gird eel grid decks, along with portions of the main span, stringers and floorbeams in Ware BrR, CONSYS software and Mathcad hand calculations to load rate oper oped influence lines for existing and new girders, as well as hammerhead bent con- temport. | for the load rating of movable BE), the Load Resistance Factor l included LA 670 over Bayou ness Riverbound Expressway lers). She load rated reinforced n the main span, and reinforced n steel grid decks, floorbeams, caps using AASHTOWare BrR |

| 04/19-12/20 | South Carolina Department of Transportation, SCDOT Bridge Inspection and Evaluation Services – Engineer-of-record and load rater responsible for reviewing as-built plans, recent inspection reports and completing load capacity ratings and related tasks for 10 on- and off-system bridges consisting of prestressed concrete beam, reinforced concrete tee beam and steel plate girder superstructures. Load rating was performed using AASHTOWare BrR in accordance with the SCDOT Load Rating Guidance Document and AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LFR) and Load Factor Rating (LFR) methods. |
|---------------|---|
| 05/18-07/18 | West Virginia Department of Transportation-Division of Highways, Henrietta Bridge Renovations, Calhoun County, WV - Bridge engineer responsible for reviewing the load rating of the 3-span superstructure replacement consisting of continuous steel beams superstructure on repaired substructure. Load rating was performed using MDX in accordance with the AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) method and the WVDOH Bridge Design Manual. |
| 03/17-11/18 | West Virginia Department of Transportation-Division of Highways, Rock Creek Development, Boone County, WV - Bridge engineer responsible for load rating this new 5-span prestressed concrete I-beam superstructure with concrete integral abutments on steel piles and concrete multi-column piers with drilled caissons. She developed detailed load rating sheets for the design plans as required by the WVDOH. The load rating was performed using AASHTOWare BrR in accordance with the AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) method and the WVDOH Bridge Design Manual. |
| 08/18-09/19 | I-70 Bridges Rehabilitation, Ohio County, WV and Belmont County, OH - Project involved the rehabilitation/replacement of seven (7) bridges along I-70 using cursory inspection information, discussions with the WVDOH, and analysis to establish rehabilitation efforts in accordance with WVDOH/ODOT manuals and standards. Performed design and analysis in accordance with AASHTO LFD Standard Specifications for analysis of existing bridges and LRFD for new bridges and repairs of existing bridges. Tasks for this project included: I-70 (EB & WB) over Wheeling Creek (Elbys Bridges): Responsible for using RC-Pier for the substructure analysis of two (2) bridges consisting of a 7-span steel plate girder superstructure supported by reinforced concrete abutments with steel piles, multi-column piers on spread footings. Bearings were replaced at all expansion piers and the cap was built-up at the overhang to resolve existing shear issues. Current and proposed thermal loads were modeled to compare cap, column and footing deficiencies. I-70 (EB & WB) over Wheeling Creek (Cemetery Bridges) : Bridge engineer responsible for using RC-Pier for the abutment analysis and checking the pier analysis of these two (2) bridges consisting of a 3-span steel plate girder superstructure supported by reinforced concrete abutments with steel piles and wall piers with spread footings. I-70 over Wheeling Creek (BEL-70) : Bridge engineer responsible for using RC-Pier for the pier analysis of this bridge consisting of a 7-span steel beam superstructure supported by multi-column piers with some caissons (wider columns) on spread footings with steel piles. The superstructure changed from 13 to 10 beams and the bearings were replaced. |
| 06/12 - 12/15 | Virginia Department of Transportation, Limited Services Statewide (VA) Design Term Contract - Bridge Engineer responsible for the preparation of calculations and models for the design and analysis of prestressed concrete bulb-tee, prestressed concrete voided slab and steel plate girder superstructures, as well as reinforced concrete abutments, wingwalls, piers and pile bents with prestressed concrete and steel piles. She also generated and detailed preliminary, as-built and revision plans; calculated quantities and prepared the engineer's cost estimate; and reviewed shop drawings and RFI's. Projects under this contract were designed in accordance with AASHTO LRFD Specifications, VDOT Structure and Bridge Manuals and VDOT Guides and Instructional and Informational Memoranda. Load ratings were performed using Virtis in accordance with the AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LRFR) method. |
| 02/09-12/12 | Virginia Department of Transportation, Bridge Load Rating, Statewide, VA - Bridge engineer assigned to perform the load rating of over 200 existing bridges using Virtis in accordance with the AASHTO Manual for Bridge Evaluation (MBE) using the Load Resistance Factor Rating (LFR) and Load Factor Rating (LFR) methods as specified by VDOT Guides and Instructional and Informational Memoranda. The bridge types including steel rolled beam and girder, prestressed box and I-beam, prestressed slab, reinforced concrete slab and tee beam, and timber superstructures. Developed the Virtis Software training and load rating instruction, references, project setup and procedures for VDOT load rating. |

| Firm employed by TRC Engineers, Inc. | | | | | |
|--------------------------------------|--|---------------------|--|---------------------------------|--|
| Name Dong Wa | ang, Ph.D., P.E. | | Years of experience with this employer | 10 | |
| Title Civil/Structural Engineer | | | Years of experience with other employer(s) | 0 | |
| Degree(s) / Years | / Specialization | | Ph.D. / 2014 / Civil Engineering | | |
| | <u>.</u> | | M.S. / 2009 / Structural Engineering | | |
| | | | B.S. / 2007 / Engineering Mechanics | | |
| Active registration | n number / state / exp | iration date | #PE.0042845 / LA / 03-31-2025 | | |
| Year registered | 2018 | Discipline | Civil/Structural Engineering | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FHWA-NHI-130092-Fundamentals of LRFR for Bridge Superstructures | s, 2015 | |
| | | | LADOTD AASHTOWare Bridge Rating Fundamentals Training | | |
| | | | FHWA-NHI-130081 - LRFD for Highway Bridge Superstructures, 2022 | 2022 | |
| | | | FHWA-NHI-130126 - Strut-and-Tie Modeling (STM) for Concrete Structures, FHWA NHI 134001 Principles and Applications of Highway Construction Sr | 2022 | |
| | | | FHWA-NHI-134007 - Engineering for Structural Stability in Bridge Construction | on 2024 | |
| Contract role(s) / b | orief description of re | esponsibilities | Load Rating | | |
| Experience dates | Experience and qualifications relevant to the proposed contract: <i>i.e.</i> , "designed drainage", "designed girders" "designed | | | | |
| (mm/vv–mm/vv) | intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | | |
| 11/02 12/02 | Ohio Department of T | ransportation, V | AR-STW-Statewide Load Rating – Load rater for the performance of LRFR and | LFR ratings of steel beam and | |
| 11/22 - 12/22; 04/24, 05/24 | plate girder bridges. Completed the rating of a bridge with multiple doglegs on a curved alignment with variable flares rated in midas Civil and pegged to | | | | |
| 04/24-03/24 | a BrR line girder. Perfo | rmed a QC check | of the load ratings using AASHTOWare BrR. | | |
| | TIDD Bridge Load Rating, Brilliant, OH (Private Client) – TRC was assigned the deck replacement design and load rating for a 7-span, 400' long | | | | |
| 04/23-08/23 | bridge. Dr. Wang developed the 3D FEA modeling of the bridge using midas Civil. The superstructure (the main girders, floorbeams, stringers) and | | | | |
| | substructure (the colum | ins) were both incl | | | |
| 03/23-08/23 | Bridge Load Rating, U | JS DOE – Perform | hed load rating using AASHTO BrR and midas Civil on six bridges of different ty | ypes. Members that were rated | |
| | consisted of the steel be | eams, grid deck, vo | ided concrete box beams, and arch cuivert. | | |
| 05/23-06/23 | Timber Bridge Load | Rating, Cameron | Parish, LA (Private Client) – Performed load rating on the super/substructure | re of two timber bridges using | |
| AASHTOWare BrR and midas Civil. | | | | | |
| 0.6/22.00/22 | ODOT, SR 151 over the Columbus & Ohio River Railroad, Harrison County, OH – The project involved replacement of a curved six-span brid | | | | |
| 06/22-09/22 | Worg assisted with the | ad. The bridge wa | is curved and highly skewed to the railroad. An integral straddle bent and a refined in the bridge which encompassed both the superstructure and straddle bent | ned analysis were required. Dr. | |
| | Contract No. 440002 | 1164 (H.011965 5 |). LA 47 IWGO Bridge Rehabilitation. New Orleans, LA (DOTD) - Bridge | ye engineer responsible for an | |
| 06/21-12/21 | inspection of the bridge and rehabilitation design for the steel plate girder spans. Generated plan sheets for the rehabilitation of various bridge components | | | | |
| | of the steel plate girder | spans, including c | oncrete barrier, drainage trough, stiffener, cross-frame, lateral bracing, and girder | splice. | |
| 10/01 | Elevated Pedestrian | Valkway Load R | ating, US DOE – Performed load rating using AASHTOWare BrR for the su | perstructure (main girders and | |
| 10/21 | transverse supporting b | eam) and substruc | ture (steel column) members. | · · · · | |

| 02/21-04/21 | Broadmore Bridge Inspection and Special Haul Load Rating, Lake Arthur, LA (Private Client) – Load rating engineer responsible for the load rating of a concrete slab off-system bridge for special hauling vehicles. He used AASHTO BrR for the concrete superstructure, load rated the timber piles and concrete caps, and issued posting recommendations. |
|-------------|--|
| 02/20-12/20 | Contract No. H.012485.1, Load Rating of 426 Off-System Bridges, Statewide, LA (LADOTD) – Load rating engineer responsible for the load rating of 346 off-system bridges (COSLAB, COPCSS, concrete and steel girders). He performed the LRFR load rating analyses using AASHTOWare BrR and other software for the superstructures and substructures (timber and concrete piles). He developed influence lines and models for the cap and pile elements. He performed the quality control for the load rating calculations and analysis models rated by fellow engineers. |
| 07/18-10/20 | Walter O. Bigby Carriageway Bridge – Bossier City, LA (City of Bossier City) – Load rating engineer for the load ratings of steel girder spans and prepared the load rating report. Checked the load rating of one pile bent. As served as a Bridge engineer responsible for designing and detailing the bridge deck overhang, bearing pads, pile bents and abutments. Checked the modeling and design of steel girder spans. Performed stability analysis of steel girder spans. Prepared quantities and design calculation books. |
| 06/16-08/19 | Contract No. 4400004920 (H.009859.5), Complex Load Rating and Inspection, Statewide, LA (DOTD) – Load rating engineer responsible for completing the complex load rating of truss and movable bridge superstructure elements of the LA 47 IWGO Bridge (tied arch/deck truss), LA1 over Atchafalaya River Bridge (truss), LA 27 over ICWW Bridge (vertical lift), LA 654 Bayou Lafourche Bridge (vertical lift), LA 83 Patout Bayou Bridge (swing), LA 319 Intracoastal Bridge (bascule), St. Ann Bridge over Bayou Terrebonne (swing) and US 90 Riverbound Expressway Bridge (deck truss/plate girder). Work was completed using the load rating provisions in the current AASHTO Manual for Bridge Evaluation and the DOTD Policies and Guidelines for Bridge Rating and Evaluation. Developed the AASHTOWare BrR load rating, MIDAS/Civil modeling, and Excel/MathCAD data processing. Wrote portions of the load rating reports. |
| 07/19 | BEL-70-2684C Bridge Load Rating, Ohio Department of Transportation, Statewide, OH – Load rating engineer responsible for load rating of the BEL-70-2684C bridge. He used AASHTO BrR for the superstructures and provided posting recommendations |
| 05/19-06/19 | Off-system Bridge Load Rating, South Carolina Department of Transportation, Statewide, SC – Load rating engineer responsible for the load rating of several off-system bridges in South Carolina. He used AASHTO BrR and LRFR for the concrete superstructures, load rated the substructure elements, and issued posting recommendations. |
| 10/17-02/18 | Mississippi Department of Transportation, Office of State Aid, Bridge Inspection and Off-system Load Rating Contract – Load rating engineer for load rating the concrete and timber superstructure elements and substructure elements of off-system bridges in accordance with AASHTO MBE. He used AASHTOWare BrR for the analysis of the superstructure elements. |
| 07/15-03/16 | Contract No. 4400002791, (H.009859.5), LA 1 Port Allen Canal Bridge, West Baton Rouge Parish, LA (DOTD) – Bridge engineer responsible for preliminary design of steel girder spans, PCC girder spans, and column bents. Performed quantity calculations, CAD drawings for GP&E sheets, typical sections, framing plan and foundation plan. Performed the QC for vertical clearance calculations. |
| 05/15-11/15 | Contract No. 4400002791 (H.003495 & H.011111), I-49 & I-220 Interchange, Caddo Parish, LA (DOTD) – Load rating engineer responsible for developing and performing the AASHTOWare BrR load rating for the I-49 over MLK Bridge, including writing of the load rating report. |

| Firm employed | by TRC Engineers, I | Inc. | | | | |
|---------------------|---|---|---|------------------------------------|--|--|
| Name Paul M | lisch Jr., P.E. | | Years of experience with this employer | 20 | | |
| Title Senior | Bridge Engineer | | Years of experience with other employer(s) | 5 | | |
| Degree(s) / Yea | rs / Specialization | | M.S. / 1999 / Civil Engineering | | | |
| | 1 | | B.S. / 1996 / Civil Engineering | | | |
| Active registration | ion number / state / exp | biration date | #PE.0034416 / LA / 09-30-2025 | | | |
| Year registered | 2009 | Discipline | Civil Engineering | | | |
| Ŭ | | 1 | Other Pertinent Training / Certifications | | | |
| | | | FHWA / NHI #130055 - Safety Inspection of In-Service Bridges, 2005 | | | |
| | | | FHWA / NHI #130053 – Bridge Inspection Refresher Training, 2015 | | | |
| Contract role(s) | / brief description of re | esponsibilities | Bridge Rehabilitation Design | | | |
| Experience date | s Experience and qua | alifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/yy | () intersection", etc. E | Experience dates | should cover the years of experience specified in the applicable M | PR(s). | | |
| | West Virginia Depart | tment of Transpo | rtation – Division of Highways, Coalfields Expressway PIE Study, Wyomin | ng County, WV - Lead bridge | | |
| | engineer. Project involv | ves the completion | of a Preliminary Investigation Engineering (PIE) Study for completing the rema | aining 47 miles of the Coalfield | | |
| | Expressway Corridor f | from Welch in Wy | roming County to the WV/VA State Line in McDowell County. The first pha | ase of the project involved the | | |
| 02/21 D | development of a finance | cial plan for the Co | rridor and an evaluation of Coal Synergy usage as a means to reduce overall project | ct costs. The project is currently | | |
| 03/21-Present | in the second phase wi | in the second phase which involves alignment development, preliminary design, and environmental re-evaluation for a 15-mile section of the Corridor | | | | |
| | plan sheets for 3 twin s | from the WV 16 Interchange at Indian Creek to Mullens in Wyoming County. Mr. Misch led the generation of span arrangement reports, including 30% | | | | |
| | constructability, superstructure and substructure types, geotechnical recommendations, and structure cost in order to recommend a bridge layout and | | | | | |
| | associated construction cost. | | | | | |
| | West Virginia Department of Transportation - Division of Highways, US 35 Design-Build/P3 Project, US 35 over CR 29 Bridge – Putnam/Masor | | | | | |
| | Counties, WV - Respo | nsible for the final | design of twin, two-span (170'-210') steel plate girder bridges carrying US 35 over | er CR 29 and Little Sixteenmile | | |
| 03/15-03/16 | Creek as part of the U | Creek as part of the US 35 Widening Design-Build/P3 project. Tasks included his design of steel plate girders, crossframes, deck slab and elastomeric | | | | |
| | bearings. Additional tasks included determining finished deck slab elevations and quantities for the bridges. Also responsible for checking the Contractor's | | | | | |
| | girder erection schemes | s/sequences includi | ng temporary towers, sizes of proposed cranes/spreader beams/beam clamps, and | d girder tie-down details. | | |
| | Counting WV Boons | ment of 1 ranspor | tation - Division of Highways, US 35 Design-Build/P3 Project, US 35 over Cl | K 40 Bridge – Putnam/Mason | | |
| 03/15 03/16 | Counties, w v - Responsible for the final design of twin, curved, two span (195 -155) steel plate girder bridges carrying US 55 over CR 40 and Upper Ninemile Creek as part of the US 35 Widening Design Build/P3 project. Tasks included designing steel plate girders, crossframe, deck slab and elastometic. | | | | | |
| 03/13/03/10 | bearings. Additional tasks included determining finished deck slab elevations and quantities for the bridges. Also responsible for checking the Contractor's | | | | | |
| | girder erection schemes | s/sequences includi | ng temporary towers, sizes of proposed cranes/spreader beams/beam clamps, and | d girder tie-down details. | | |
| | West Virginia Depart | tment of Transpo | rtation - Division of Highways, Coalfields Expressway Design-Build/P3 P | roject, Mullens to CO 12/1 - | | |
| 05/14-01/16 | Wyoming County, W | Wyoming County, WV - Responsible for the final design of an 1,175' long four-sided concrete box culvert with a 6.5' x 6.5' opening as part of this | | | | |
| | Design-Build/P3 project | et. Additional tasks | included detailing the culvert installation sequence and the calculation of culvert | invert elevations and quantities. | | |
| | West Virginia Depart | ment of Transpor | tation - Division of Highways, WV Thomas Buford Pugh Memorial Bridge R | Replacement (WV Rt. 41 Over | | |
| 02/13-02/14 | the New River), Fayer | tte County, WV - | Responsible for the Superstructure Type, Size and Location Study for this three | -span (217'-250'-190'), curved | | |
| | West Virginia Depart | mont of Transma | ranning plan development and premininary design of steel girders with 125' radii | and snarply skewed abutments. | | |
| 06/11-08/14 | preliminary studies and | the final design of | f this two-span (173'-130') steel plate girder bridge carrying Bridge Street over | the Three Fork Creek and CSX | | |
| 00/11-00/14 | Railroad in the City of | Grafton, WV. Task | s included designing steel plate girders, deck slab, rigid frame concrete pier with o | drilled caissons, extensive MSE | | |

| | wall layouts, conceptual bridge demolition and erection schemes over several CSX rail lines. Also checked the design for the integral abutments founded on steel H-niles |
|-------------|--|
| 03/18-02/19 | West Virginia Department of Transportation - Division of Highways, I-70 Bridges, Rehabilitation of Greenwood Bridge WB & EB (I-70 WB & EB Over Wheeling Creek), Ohio County, WV - Member of the design team that developed rehabilitation plans for these curved and skewed steel girder bridges having span lengths of 89'-137'-83'. Responsible for detailing modifications to the bridges for conversion to semi-integral abutments. Detailed demolition limits for the existing abutment backwalls and portions of the wingwalls. Developed plan details for new shear blocks and concrete end diaphragms to be built in phases for maintenance of traffic purposes. Also detailed modifications to existing steel end crossframes for embedment in the new concrete end diaphragms. |
| 03/18-02/19 | West Virginia Department of Transportation - Division of Highways, I-70 Bridges, Rehabilitation of Elby's Bridge WB & EB (I-70 WB & EB Over Ramp B, Ramp C and Wheeling Creek), Ohio County, WV - Member of the design team that developed rehabilitation plans for the seven span, steel rolled beam bridges with span lengths ranging from 39' to 92'. Responsible for detailing modifications to the bridges for conversion to semi-integral abutments. Detailed demolition limits for the existing abutment backwalls, pedestals and portions of the wingwalls. Developed plan details for new shear blocks, pedestals, concrete end diaphragms and end zone regions of the deck slabs. Also detailed modifications to existing steel end crossframes for embedment in the new concrete end diaphragms. |
| 06/13-04/15 | West Virginia Department of Transportation - Division of Highways, Phill G. McDonald Memorial Bridge Rehabilitation, I-64 Over Glade Creek, Raleigh County, WV – Bridge design engineer responsible for developing the rehabilitation plans for this five-span (125'-560'-784'-560'-150') bridge consisting of a three-span continuous steel deck truss and two welded plate girder approach spans. The overall bridge length is 2,179' with a roadway width of 72'. Tasks included bearing replacements, strip seal deck joint replacements, neoprene trough replacement at finger joints, addition of gusset plate stiffening angles, miscellaneous bolt replacements, bird screen repairs, addition of chord member drain holes, spot painting, concrete patching/crack sealing on the deck and piers, and pier door replacements. |
| 03/14-06/15 | West Virginia Department of Transportation - Division of Highways, Kanawha Falls Bridge Rehabilitation, County Route 13 over Kanawha River, Fayette County, WV – Bridge design engineer responsible for developing rehabilitation plans for this historic (1928) four-span (265'-400'-265'-73') bridge which consists of three through trusses, a rolled beam approach span and a roadway width of 21.5'. Tasks included compiling quantities, designing a phone conduit system and an 8" diameter waterline connection to the floor system, checking of the span 4 deck slab design and coordinating the development of rehabilitation plans between four (4) design offices. |

| Firm employed by Burgess and Niple, Inc. | | | | |
|---|--|--|----------------------------------|--|
| Name Edward | M. Cinadr, PE | Years of experience with this employer | 26 | |
| Title Principal | & Director of Facility Inspection | Years of experience with other employer(s) | 3 | |
| Degree(s) / Years | / Specialization | M.S. / 1997 / Civil Engineering | | |
| | | B.S. / 1995 /Civil Engineering | | |
| Active registration | n number / state / expiration date | #PE.0035390 / LA / 09-30-2024 | | |
| Year registered | 2010 Discipline | Civil Engineering | | |
| | | Other Pertinent Training / Certifications | | |
| | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 1/2011 | | |
| | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 2/2021 | | |
| | | SPRAT Rope Access Technician, Level II (#120174, expires 5/8/2025) | | |
| \mathbf{C} = \mathbf{r} + \mathbf{r} = 1 = (\mathbf{r}) | | Prides Inspection Teacher (ref: first MDD #4) | | |
| Contract role(s) / | brief description of responsibilities | Bridge Inspection Team Leader (satisfies NIPR #4) | | |
| Experience dates | Experience and qualifications rele | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. Experience date | s should cover the years of experience specified in the applicable MI | PR(s). | |
| 10/00 10/11 | LADOTD State Project No. 700-99-04 | 94 - Lead bridge inspector. Performed field inspection of major trusses and gusse | t plate inspection and gathered | |
| 12/09-10/11 | data for bridge load rating. Used indu | strial rope access for inspection. Teamed with a Prime on the following brid | lges: LA-90/Morgan City, I- | |
| | LADOTD Contract No. 4400004920 (1 | (0) Donald solitine, 0.5-190/Ki of Springs, 1-10/Calcasted. | r trusses including gusset plate | |
| 04/16-01/18 | inspection and rating on three major trus | ses: LA-47/IWGO. US-90/New Orleans River Bound Expressway, and LA-2/ | Millers Bluff. Used industrial | |
| | rope access for inspection. | , , , , , , , , , , , , , , , , , , , | | |
| 12/10 6/21 | LADOTD Contract No. 4400004920 (T | (O 5) - Lead bridge inspector. Performed field inspection of off-system bridges and | QA of load rating calculations | |
| 12/19-0/21 | for a total of 29 bridges. | | | |
| 12/21-Present | LADOTD Contract No. 4400017264 - | Contract manager and team leader for an inspection of IWGO/LA47/Green Bridg | ge for a rehabilitation design. | |
| | Oregon DOT Agreement B34825 - Lea | d inspector and contract manager for fracture critical (NSTM), fatigue prone, in-de | epth, and routine inspections of | |
| 06/18-Present | major bridges, including Astoria-Megle | r trusses, Coos Bay/McCullough Memorial trusses, and West Fremont Comple | ex (seven FC steel tub girders | |
| | and pier caps). Used industrial rope acc | ess for inspection. | | |
| 04/10 D | Oklahoma DOT Contract ID 2063A - (| Contract manager and team leader for fracture critical (NSTM) and routine inspection | ons of 87 Off-System truss and | |
| 04/19-Present | FC bridges. The project includes load rati | ngs and updates to include EV/SHV loadings and Cruical Finding repair/renab deta: | il development. Uses industrial | |
| | Oklahoma DOT Contract ID 2064 - Co | ntract manager and team leader for the fracture critical and routine inspections of 5 | 0 On-System truss and fracture | |
| 04/19-Present | critical bridges. Uses industrial rope acc | ess for inspection. | | |
| 01/10-03/14 | LADOTD State Proj. No. 700-99-0494 | - Lead bridge inspector during the performance of field inspections on six major | trusses, along with gusset plate | |
| | inspection, to gather data for bridge lo | ad ratings. Bridges included I-20 at Vicksburg, I-10 at Baton Rouge, I-10 at L | ake Charles, LA70 Sunshine- | |
| | Donaldsonville, and US190 Krotz Spring | gs. Utilized industrial rope access for inspection. | | |

| Firm employed by | Burgess and Nipl | e, Inc. | | |
|----------------------|--------------------------|-------------------------------------|--|--------------------------------------|
| Name Brendan | J. Prendeville, PE | | Years of experience with this employer | 21 |
| Title Sr. Project | ct Manager, Bridge I | nspection Engin | eer Years of experience with other employer(s) | 21 |
| Degree(s) / Years | / Specialization | · · · · | B.S. / 2004 / Civil Engineering | |
| Active registration | n number / state / exp | iration date | #PE.0045371 / LA / 09-30-2025 | |
| Year registered | 2010 | Discipline | Civil Engineering | |
| C . | | • | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 1/2011 | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 2/2021 | |
| | | | FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridg | ges, 2/2011 |
| | | | SafeX Confined Space Entry - 2005, 2006 | |
| | | | SPRAT Rope Access Technician, Level II (#080310, expires 1/28/2025) | |
| | | ** ***.* | NDT Techniques (P1, M1, U1) – Edison Welding Institute, 2020 | |
| Contract role(s) / I | orief description of re | esponsibilities | Bridge Inspection Team Leader (satisfies MPR #4) | |
| Experience dates | Experience and qua | difications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed | girders", "designed |
| (mm/yy–mm/yy) | intersection", etc. E | Experience dates | should cover the years of experience specified in the applicable I | MPR(s). |
| | LADOTD State Proje | ct No. 700-99-049 | - Bridge inspection engineer. Performed field inspections of major trusses and | 1 gusset plate inspections, as well |
| 12/09-10/11 | as gathered data for bri | dge load rating. Us | ed industrial rope access for inspection. I eamed with a Prime on the followin | g bridges: LA-90/Morgan City, |
| | LADOTD Contract N | 5aton Rouge, LA- 6 4400004920 (T | 1) - Bridge inspection engineer Performed field inspection and load ratings. | of major trusses including gusset |
| 04/16-01/18 | plate inspections and r | ating on three mai | or trusses: LA-47/IWGO, US-90/New Orleans River Bound Expressway. | and LA-2/Millers Bluff. Used |
| 0 1/ 10 01/ 10 | industrial rope access f | or inspection. | | |
| 12/10 04/21 | LADOTD Contract N | lo. 4400004920 (T | D 5) - Project manager and bridge inspection engineer. Performed field inspection | ections of off-system bridges and |
| 12/19-04/21 | load rating calculations | . A 29 of total brid | ges were worked on. | |
| | Ohio DOT DEL-23 B | ridge & Structure | Evaluations - Project manager and lead bridge inspection engineer for over 2 | 200 structures, including bridges, |
| 08/20-03/22 | culverts, and drainage | structures. Bridge | evaluation work included an in-depth assessment of decks including coring, | chloride ion sampling, and other |
| | Oregon DOT Agreem | ant B34825 Deci | or provided for each structure. | ique prope in death and routing |
| 06/19 07/21 | inspections of major h | ridges including A | storia-Megler trusses Coos Bay McCullough Memorial trusses and West | st Fremont Compley (seven FC |
| 00/18-07/21 | steel tub girders and i | Dier caps). Used in | dustrial rope access for inspection. | t Fremont Complex (seven Fe |
| | Oklahoma DOT Con | tract ID 2063A - ' | Team leader for fracture critical (NSTM) and routine inspections of 87 Off- | System truss and fracture critical |
| 04/19-04/21 | bridges. Project include | ed load ratings and | updates to include EV/SHV loadings and critical finding repair/rehab detail d | evelopment. Used industrial rope |
| | access for inspection. | | | |
| 04/19-04/21 | Oklahoma DOT Cont | ract ID 2064 - Tea | n leader for fracture critical (NSTM) and routine inspections of 50 On-System | truss and fracture critical bridges. |
| 07/17-07/21 | Used industrial rope ac | cess for inspection. | | |

| 10/21 02/22 | LADOTD Contract No. 4400017264 (TO 1) – Team Leader for a rehabilitation inspection of the LA-47/IWGO/MRGO/Green Bridge over the Mississippi |
|---------------|--|
| 10/21-02/22 | River. Deficiencies were documented to assist with a rehabilitation plan development. Rope access and mechanical means were used for access. |
| | Arizona DOT (Contract No. 2019-010.02) - Team Leader and QA/QC for 19 in-depth and 55 routine inspections. Bridge types that were inspected |
| 04/19-04/23 | included steel multi-girder, PS multi-girder, PS box beam, PS slab, steel truss, steel twin girder and other various types. Provided QA/QC for the inspection |
| | reports and recommendation updates. |
| | ODOT (Districts 5, 6 & 10) (Contract PID 119432) - Project manager and team leader for 460 routine, fracture critical and in-depth bridge inspections |
| 01/22 Dresont | for local municipalities. Tasks included field inspection, SNBI transition documentation , scour evaluations, load ratings, report drafting and final review, |
| 01/25-Flesent | and overall QA/QC for all project deliverables. Bridge types include steel truss, PS concrete box beams, post-tensioned concrete I-beams, PS concrete |
| | slabs, steel multi-girder, steel CMP and concrete box culverts and others. |

| Firm employed by | Burgess and Niple, Inc. | | |
|----------------------|--|--|-------------------------------------|
| Name Michael | Kronander, PE | Years of experience with this employer | 13 |
| Title Project M | Ianager, Bridge Inspection Engineer | Years of experience with other employer(s) | 9 |
| Degree(s) / Years | / Specialization | B.S. / 2011 / Civil Engineering | |
| Active registration | n number / state / expiration date | #PE.0042172 / LA / 03-31-2026 | |
| Year registered | 2017 Discipline | Civil Engineering | |
| | | Other Pertinent Training / Certifications | |
| | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 6/2015 | |
| | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 3/2020 | |
| | | FHWA-NHI-130078A - Bridge Inspection Techniques for NSTM Refresher, | 8/2023 |
| | | Permit Required and SCBA Confined Space Entry, 2015 | |
| | | SPRAT Rope Access Technician, Level III (#150523, expires 4/3/2027) | |
| | | NDT Techniques (PT, MT, UT) – Edison Welding Institute, 2020 | |
| | | FAA UAS Remote Pilot (#40/2530, issued 12/3/2019) | |
| Contract role(s) / I | brief description of responsibilities | Bridge Inspection Team Leader / UAS Drone Pilot (satisfies | MPR #4) |
| Experience dates | Experience and qualifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed | girders", "designed |
| (mm/yy–mm/yy) | intersection", etc. Experience dates | should cover the years of experience specified in the applicable | MPR(s). |
| | LADOTD Contract No. 4400004920 (T | () 1) - Bridge inspection engineer. Performed field inspection and load ratings | of major trusses, including gusset |
| 04/16-01/18 | plate inspection and rating on three maj | r trusses: LA-47/IWGO, US-90/New Orleans River Bound Expressway, | and LA-2/Millers Bluff. Used |
| 12/21 06/22 | Industrial rope access for inspection. | idea inspection angineer for a rehabilitation inspection of the WCOU A470 | anon Duideo |
| 12/21-00/22 | CODOT Voinevieb Bridges Derformed | in depth fracture critical (NSTM) and routing inspections. Served as the pro- | incent manager and team leader for |
| 02/19-12/21 | inspections of two signature. long-span st | el delta-frame bridges. Used industrial rope access for inspection. | feet manager and team leader for |
| | Oregon DOT Agreement B34825 - Brid | ge inspection engineer for fracture critical (NSTM), fatigue prone, in-depth. | and routine inspections of major |
| 06/18-06/23 | bridges including the Astoria-Megler tr | sses, Coos Bay/McCullough Memorial trusses, and West Fremont Comp | olex (seven FC steel tub girders |
| | and pier caps). Used industrial rope acce | ss for inspection. | |
| 00/40 D | Iowa DOT Border Bridge Inspections - | Field lead for several complex bridges along the Iowa border over the Misson | ari and Mississippi Rivers. Types |
| 08/18-Present | of bridges include steel girder, suspension | truss and arches. Used industrial rope access for inspection. | |
| | ODOT CUY-10 Bridge Rehabilitation / | Replacement - Team leader for in-depth and rehabilitation inspections of this | steel deck truss to assess the cost |
| 12/23-Present | of repairs for the steel superstructure port | on of this bridge near downtown Cleveland, OH. Used industrial rope access, | a snooper, and traffic control for |
| | the inspection. | | |
| 04/23-Present | Oklahoma DOT On / Off-system Bridg | Inspections and Load Ratings - Team leader for fracture critical (NSTM) and | nd routine inspections for state on |
| 0 1/20 1 1000m | and off-system bridges statewide. Load ra | ings are performed in BAR 7 and Excel. | |

| Firm employed by | Burgess and Niple | e, Inc. | | |
|----------------------|----------------------------|----------------------|---|-----------------------------------|
| Name Andrew | Goodrich, PE | | Years of experience with this employer | 12 |
| Title Project M | Ianager, Bridge Inspe | ection Engineer | Years of experience with other employer(s) | 12 |
| Degree(s) / Years | / Specialization | | B.S. / 2011 / Civil Engineering | |
| Active registration | n number / state / exp | iration date | #023343 / WV / 12-31-2024 | |
| Year registered | 2018 | Discipline | Civil Engineering | |
| | | | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 4/2015 | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 10/2019 | 12/2010 |
| | | | FHWA-NHI-1300/8 – Fracture Critical Inspection Techniques for Steel Bridge | s, 12/2018 |
| Contract rola(a) / 1 | ariaf decorrintian of ro | anonaihilitiaa | Dridge Inspection Teom Leader (astisfies MDD #4) | |
| Expansion as datas | Experience and ave | 1: figotions relat | Druge inspection ream Leader (sausnes wirk #4) | inders" "designed |
| Experience dates | | | and to the proposed contract, <i>i.e.</i> , designed dramage, designed g | nders, designed |
| (mm/yy–mm/yy) | intersection, etc. E | xperience dates | should cover the years of experience specified in the applicable M. | PR(s). |
| 05/21 Dresent | WV State Project 16 | 10-19-15.38 00, N | ew River Gorge Bridge, Fayetteville, WV - Project manager and bridge insp of this 2.020' steel and bridge over the New Piver Cores. Derformed field is | ection team leader for fracture |
| 05/21-Present | floorbeam trusses arch | trusses gusset pla | tes and steel bents. Used industrial rope access and specialized mechanical equit | oment for the inspection |
| | WV State Project T60 | 5-P2-0.01 00. Ma | rket Street Bridge over the Ohio River, Follansbee, WV - Project manager and | d bridge inspection team leader |
| 05/18-12/23 | for fracture critical (NS | STM) and routine | inspections of this suspension bridge. Performed field inspection and load ration | ngs of suspension cables, floor |
| | system, stiffening trusse | es, cable towers, ca | antilever supports, and piers/bents. Used industrial rope access for the inspection. | |
| | WV State Project T65 | 4-77-186.77 00, W | /illiamstown-Marietta I-77 Bridge over the Ohio River, Williamstown, WV - | Bridge inspection engineer for |
| 06/16-12/21 | fracture critical (NSTM | l), in-depth, and ro | butine inspections on this four-lane truss bridge. Performed field inspection of t | he through truss, gusset plates, |
| | approach girders, and p | ters. Used industri | al rope access for the inspections. | nation angineer and inspection |
| 02/20 Present | team leader for the fract | ure critical (NSTN | () and routine inspections of this four-lane cantilever bridge Performed field inspe | ections of the cantilever through |
| 05/20-Flesent | trusses, gusset plates, fl | oor system, approa | ach girders, and piers. Used industrial rope access and mechanical equipment for | the inspections. |
| | WV State Project T65 | 4-014-13.22: Fifth | Street Bridge - Bridge inspection engineer and inspection team leader for fractu | are critical (NSTM) and routine |
| 05/18-10/23 | inspections. Performed | field inspection of | the through truss, gusset plates, approach girders, cross-girders, cantilever supp | ports, and piers. Used industrial |
| | rope access and mechar | nical equipment for | r the inspections. | |
| | WV State Project T62 | 27-P62-0.00 00: B | ridge of Honor over the Ohio River, Mason, WV - Bridge inspection engine | eer for the fracture critical and |
| 01/16-12/18 | routine inspections of the | his cable-stayed bi | idge. Performed field inspection of the stay cables, PT stay towers, PT edge gird | ders, PT floorbeams, and piers. |
| | Used industrial rope acc | cess and mechanic | al equipment for the inspections. | |

| Firm employed by | Burgess and Niple, Inc. | | |
|----------------------|---|---|---|
| Name James " | Drew" Appler, PE | Years of experience with this employer | 4 |
| Title Project M | Ianager, Bridge Inspection Engineer | Years of experience with other employer(s) | 12 |
| Degree(s) / Years | / Specialization | B.S., 2008, Civil Engineering | |
| Active registration | n number / state / expiration date | #PE.0047675 / LA / 09-30-2025 | |
| Year registered | 2023 Discipline | Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 8/2015 FHWA-NHI-130053 - Bridge Inspection Refresher Training, 3/2021 FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridges FHWA-NHI-130087 - Inspection and Maintenance of Ancillary Structures, 201 Bridge Climbing & Industrial Rope Access – B&N, 2020 SPRAT Rope Access Technician, Level I (#120243, expires 1/27/2025) FAA UAS Remote Pilot, 2021 FHWA-NHI-130124 - Tunnel Safety Inspection Refresher, 2022 ATSSA Traffic Control Technician, 2022 | s, 8/2019 9 |
| Contract role(s) / I | brief description of responsibilities | Bridge Inspection Team Leader / UAS Drone Pilot (satisfies M | (PR #4) |
| Experience dates | Experience and qualifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. Experience dates | s should cover the years of experience specified in the applicable MI | PR(s). |
| 04/16-01/18 | LADOTD Contract No. 4400004920 (Te plate inspection and rating of three major industrial rope access for inspection. | O 1) - Bridge inspection engineer. Performed field inspection and load ratings of or trusses: LA-47/IWGO, US-90/New Orleans River Bound Expressway, an | major trusses, including gusset nd LA-2/Millers Bluff. Used |
| 10/22-Present | LADOTD Contract No. 4400023510 - H load rating on three major trusses: LA-3 Mississippi in Vicksburg, and US-79 Te | Bridge inspection engineer. Performed field inspections of major trusses, includi 213 Veterans Memorial Bridge (Grammercy), LA-27 Gibbstown Intercoas exas St. Bridge in Shreveport. Led the industrial rope access teams for NSTM in | ing gusset plate inspection and stal Waterway, I-20 over the spections. |
| 12/21-Present | LADOTD Contract No. 4400017264 - B | ridge inspection engineer for a rehab inspection of the IWGO/LA47/Green Brid | dge. |
| 02/19-06/22 | ODOT George V. Voinovich Bridges, O manager and team leader for the inspectio | Cleveland, OH – Performed in-depth, fracture critical (NSTM), and routine ins n of two signature long-span steel delta-frame bridges. Used industrial rope acce | pections. Served as the project ess for the inspections. |
| 06/18-09/22 | Oregon DOT Agreement B34825 - Brid bridges, including the Astoria-Megler tr and pier caps). Used industrial rope acce | dge inspection engineer for fracture critical (NSTM), fatigue prone, in-depth, an usses, Coos Bay/McCullough Memorial trusses, and West Fremont Comple ess for the inspections. | nd routine inspections of major ex (seven FC steel tub girders |
| 04/19-Present | Oklahoma DOT Contract ID 2063A - T includes load ratings and updates to inclu inspections. | Team leader for fracture critical (NSTM) and routine inspections of 87 off-system and EV/SHV loadings and critical finding repair/rehab detail development. Used | n truss and FC bridges. Project d industrial rope access for the |
| 04/19-Present | Oklahoma DOT Contract ID 2064 - T industrial rope access for the inspections. | eam leader for fracture critical (NSTM) and routine inspections of 50 on-syste | em truss and FC bridges. Used |

| 10/10 2022 | Mississippi OSARC Bridge Inspections & Load Ratings - Team leader for in-depth and routine inspections of off-system bridges, including timber, |
|------------|---|
| 10/19-2022 | steel, and concrete structures. Load ratings were performed in AASHTOWare BrR, MIDAS and Excel. |



| Firm em | ployed by | Collins Engineers | South, Incorpo | rated | |
|-----------|-------------|---|--|---|--|
| Name | Beau Ka | mrath, PE | | Years of experience with this employer | 8 |
| Title | Dive Tea | ım Leader | | Years of experience with other employer(s) | 2 |
| Degree(s | s) / Years | / Specialization | | B.S. / 2013 / Civil/Structural Engineering | |
| Active re | egistratior | n number / state / exp | iration date | #PE.0046453 / LA / 09-30-2024 | |
| Year reg | istered | 2022 | Discipline | Civil Engineering Other Pertinent Training / Certifications FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 4/2014 FHWA-NHI-130053 – Bridge Inspection Refresher Training, 2/2022 FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridg FHWA-NHI-130091 – Underwater Bridge Inspection, 3/2018 ADCI Surface-Supplied Air Diver (#60307, expires 10/3/2024) FAA UAS Drone Pilot (#4641342, issued 3/24/2022) | es, 12/2017 |
| Contract | role(s)/l | brief description of re | sponsibilities | Underwater Inspection Team Leader (satisfies MPRs #8 and | <mark>#9</mark>) |
| Experier | nce dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed | girders", "designed |
| (mm/yy- | -mm/yy) | intersection", etc. E | xperience dates | should cover the years of experience specified in the applicable M | IPR(s). |
| 05/24-] | Present | VDOT Statewide, Em responsible for managi gathering field notes, q practices, including crac SSA equipment or oper | ergency Underwa ng the project, pro- uality control revie ck gauging and con ated the comms bo | ter Bridge Inspection (LOA 112), Richmond District, VA –Project manage eparing the fee estimate, arranging access equipment, scheduling work, perfe- ews of reports, and submitting final deliverables and invoices. Additionally, he necrete-sounding field note preparation. He performed diving operations as a div x and diving equipment as the designated diving supervisor. | r and dive team leader. He was orming and leading inspections, e performed standard inspection er using commercial SCUBA or |
| 01/24-] | Present | VDOT Statewide, 5 U responsible for assisting notes, quality control re crack gauging and conc operated the comms bo | nderwater Bridge g in preparing the f views of reports, ar crete-sounding field x and diving equip | Inspections (LOA 97), Richmond District, VA – Assistant project manage we estimate, arranging access equipment, scheduling work, performing and lea and submitting final deliverables and invoices. Additionally, he performed standar and note preparation. He performed diving operations as a diver using commercial ment as the designated diving supervisor. | r and dive team leader. He was ding inspections, gathering field d inspection practices, including d SCUBA or SSA equipment or |
| 01/24-] | Present | VDOT Statewide, 11 U equipment, performing Additionally, he perfor operations as a diver us | Underwater Bridg and leading inspect med standard insp ing commercial SC | e Inspections (LOA 94), Richmond District, VA –Dive team leader. He was ctions, gathering field notes, quality control reviews of reports, and submitting ection practices, including crack gauging and concrete-sounding field note pr CUBA or SSA equipment or operated the comms box and diving equipment as t | responsible for arranging access final deliverables and invoices. eparation. He performed diving he designated diving supervisor. |
| 07/23 | -02/24 | VDOT Statewide, 40 U for managing the project notes, quality control re crack gauging and conce operated the comms box | J nderwater Bridg ct, preparing the fe views of reports, ar crete-sounding field x and diving equip | e Inspections (LOA 89), Richmond District, VA – Project manager and dive be estimate, arranging access equipment, scheduling work, performing and lead ad submitting final deliverables and invoices. Additionally, he performed standard note preparation. He performed diving operations as a diver using commercial ment as the designated diving supervisor. | team leader. He was responsible ling inspections, gathering field d inspection practices, including l SCUBA or SSA equipment or |

| 05/23-11/23 | FHWA-EFLD, 12 Underwater Bridge Inspections, Nationwide – Dive team leader. He was responsible for arranging access equipment, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
|-------------|--|
| 03/23-10/23 | VDOT Statewide, 6 Underwater Bridge Inspections (LOA 65), Richmond District, VA – Project manager and dive team leader. He was responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/23-08/23 | VDOT Statewide, 10 Underwater Bridge Inspection (LOA 72), Richmond District, VA – Assistant project manager and dive team leader. He was responsible for assisting in preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/22-01/23 | VDOT Statewide, 13 Underwater Bridge Inspections (LOA 32), Richmond District, VA – Project manager and dive team leader. He was responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/22-01/23 | VDOT Statewide, 34 Underwater Bridge Inspections (LOA 30), Richmond District, VA – Project manager and dive team leader. He was responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 12/21-07/22 | VDOT Statewide, Underwater Bridge Inspection (LOA 29), Richmond District, VA – Project manager and dive team leader. He was responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |



| Firm employed b | y Collins Engineers | s South, Incorpo | rated | |
|---------------------|--------------------------|----------------------------|--|--|
| Name Brian D | ilworth, PE | | Years of experience with this employer | 18 |
| Title Dive Te | am Leader | | Years of experience with other employer(s) | 0 |
| Degree(s) / Years | s / Specialization | | B.S. / 2006 / Civil Engineering | |
| Active registration | n number / state / exp | iration date | #062-063791 / IL / 11-30-2025 | |
| Year registered | 2011 | Discipline | Civil Engineering | |
| | | | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 8/2015 FHWA-NHI-130053 – Bridge Inspection Refresher Training 2/2020 | |
| | | | FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridge | es. 2/2013 |
| | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 3/2013 | <i>s</i> , <u>-</u> |
| | | | ADCI Surface-Supplied Air Diving Supervisor (#51622, expires 5/11/2025) | |
| Contract role(s) / | brief description of re- | esponsibilities | Underwater Bridge Inspection Team Leader (<mark>satisfies MPRs #</mark> | <mark>8 and 9</mark>) |
| Experience dates | Experience and qua | difications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. E | Experience dates | should cover the years of experience specified in the applicable M | PR(s). |
| | INDOT, 250 Underwa | ter Bridge Inspec | tions, Statewide, IN – Project manager and dive team leader. Responsible for r | nanaging the project, preparing |
| 05/04 0 : | the fee estimate, arrang | ing access equipme | nt, scheduling work, performing and leading inspections, gathering field notes, qu | ality control reviews of reports, |
| 05/24 - Ongoing | and submitting final de | He performed divi | nces. Additionally, ne performed standard inspection practices, including crack g | gauging and concrete-sounding |
| | equipment as the design | nated diving superv | isor. | act the commis box and drving |
| | Amtrak, 10 Underwat | ter Bridge Inspect | ions, Nationwide - Project manager and dive team leader. Responsible for man | aging the project, preparing the |
| | fee estimate, arranging | access equipment, | scheduling work, performing and leading inspections, gathering field notes, qua | ality control reviews of reports, |
| 05/24 – Ongoing | and submitting final de | liverables and invo | bices. Additionally, he performed standard inspection practices, including crack | gauging and concrete-sounding |
| | field note preparation. | He performed diving super- | ng operations as a diver using commercial SCUBA or SSA equipment or opera | ited the comms box and diving |
| | INDOT. 70 Underwat | ter Bridge Inspect | ions. Statewide. IN – Project manager and dive team leader. Responsible for n | nanaging the project, preparing |
| | the fee estimate, arrang | ing access equipme | nt, scheduling work, performing and leading inspections, gathering field notes, qu | ality control reviews of reports, |
| 04/23 - 12/23 | and submitting final de | liverables and invo | bices. Additionally, he performed standard inspection practices, including crack | gauging and concrete-sounding |
| | field note preparation. | He performed divi | ng operations as a diver using commercial SCUBA or SSA equipment or opera | ted the comms box and diving |
| | equipment as the design | nated diving superv | /1801. ions Statewide IN – Project manager and dive team leader. Personsible for n | nanaging the project preparing |
| | the fee estimate. arrang | ing access equipme | nt, scheduling work, performing and leading inspections, gathering field notes, au | ality control reviews of reports. |
| 04/22 - 12/22 | and submitting final de | liverables and invo | pices. Additionally, he performed standard inspection practices, including crack | gauging and concrete-sounding |
| | field note preparation. | He performed divi | ng operations as a diver using commercial SCUBA or SSA equipment or opera | ited the comms box and diving |
| | equipment as the design | nated diving superv | visor. | |

COLLINS ENGINEERS²

| 06/21 – 11/22 | MoDOT, 3 Underwater Bridge Inspections, Cape Girardeau, MO – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
|-----------------|---|
| 06/20 - 03/21 | MoDOT, 5 Underwater Bridge Inspections, Kansas City, MO – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/20 – Ongoing | KDOT, 21 Underwater Bridge Inspections, Statewide, KS – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/20 - 03/21 | INDOT, 15 Underwater Bridge Inspections, Statewide, IN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/19 - 03/20 | INDOT, 50 Underwater Bridge Inspections, Statewide, IN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 09/18 - 04/20 | INDOT, 39 Underwater Bridge Inspections, Statewide, IN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |



| Firm emp | ployed by | Collins Engineers | South, Incorpo | prated | | |
|--------------|-------------|---|----------------------|--|----------------------------------|--|
| Name | Joshua J | ohnson, PE | | Years of experience with this employer | 10 | |
| Title | Dive Tea | m Leader | | Years of experience with other employer(s) | 9 | |
| Degree(s) |) / Years | / Specialization | | B.S. / 2003 / Civil Engineering | | |
| Active re | egistration | n number / state / exp | iration date | #27049 / KY / 06-30-2025 | | |
| Year regi | istered | 2010 | Discipline | Civil Engineering | | |
| | | | | Other Pertinent Training / Certifications | | |
| | | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 5/2008 | | |
| | | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 1/2023 | 2/2012 | |
| | | | | FHWA-NHI-1300/8 – Fracture Critical Inspection Techniques for Steel Bridge | s, 2/2013 | |
| | | | | ADCI Surface-Supplied Air Diving Supervisor (#40245, expires 12/22/2026) | | |
| Contract | role(s) / l | prief description of re | esponsibilities | Underwater Inspection Team Leader (satisfies MPRs #8 and # | 0) | |
| Experien | ice dates | Experience and qua | lifications relev | zant to the proposed contract: <i>i.e.</i> "designed drainage" "designed g | irders" "designed | |
| (mm/yy) | -mm/x/x) | intersection" etc. F | vnerience dates | should cover the years of experience specified in the applicable M | PR(c) | |
| (IIIII/ y y— | -11111/ yy) | ODOT 11 Underwat | er Bridge Inspec | tions District 12 OH – Dive team leader Responsible for arranging access | equipment scheduling work | |
| | _ | performing and leading | inspections, gathe | ring field notes, and quality control reviews of reports. Additionally, he performe | d standard inspection practices. | |
| 05/24-P | Present | including crack gaugin | g and concrete-so | unding field note preparation. He performed diving operations as a diver using | g commercial SCUBA or SSA | |
| | | equipment or operated | the comms box and | d diving equipment as the designated diving supervisor. | , , | |
| | | ODOT, 50 Underwate | r Bridge Inspecti | ons and 4 Bridge Hydrographic Surveys, District 9, OH – Dive team leader. R | esponsible for arranging access | |
| 05/24-P | Present | equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed | | | | |
| 00/211 | resent | standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using | | | | |
| | | commercial SCUBA or | SSA equipment o | r operated the comms box and diving equipment as the designated diving supervi | sor. | |
| | | foo optimate arranging | r Bridge Inspectio | ons, Statewide, $IN =$ Project manager and loading inspections, gethering field notes, gue | aging the project, preparing the | |
| 05/24-P | Drecent | and submitting final de | liverables and inv | scheduling work, performed standard inspections, gamering field holes, qua | auging and concrete-sounding | |
| 05/24-1 | resent | field note preparation | He performed divi | ing operations as a diver using commercial SCUBA or SSA equipment or opera | ted the comms box and diving | |
| | | equipment as the design | nated diving super- | visor. | ted the commission and arving | |
| | | KYTC, 19 Underwate | r Bridge Inspecti | ons, and Hydrographic Surveys (TO 1), Statewide, KY – Dive team leader. Re | esponsible for arranging access | |
| 02/24 0 | Duranut | equipment, scheduling | work, performing | and leading inspections, gathering field notes, and quality control reviews of repo | orts. Additionally, he performed | |
| 02/24-P | resent | standard inspection pra | ctices, including of | crack gauging and concrete-sounding field note preparation. He performed divi | ng operations as a diver using | |
| | | commercial SCUBA or | SSA equipment o | r operated the comms box and diving equipment as the designated diving supervi | sor. | |

| | ODOT, Underwater Bridge Inspections (TO 2), District 11, OH – Dive team leader. Responsible for arranging access equipment, scheduling work, |
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| 01/24 05/24 | performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, |
| 01/24-03/24 | including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA |
| | equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| | FHWA-EFLD, 12 Underwater Bridge Inspections, Nationwide – Dive team leader. Responsible for arranging access equipment, scheduling work, |
| 05/23-11/23 | performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, |
| 05/25-11/25 | including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA |
| | equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| | KYTC, 8 Underwater Bridge Inspections, and Hydrographic Surveys (TO 1), Statewide, KY – Dive team leader. Responsible for arranging access |
| 02/23-12/23 | equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed |
| 02/25 12/25 | standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using |
| | commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| | TDOT, Underwater Inspection and Imaging of 9 Off-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access |
| 05/22-12/22 | equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed |
| | standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using |
| | commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| | |
| | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access |
| 05/22-12/22 05/22-11/22 05/22-09/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed is a diver using the leader. |
| 05/22-12/22 05/22-11/22 05/22-09/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver |
| 05/22-12/22 05/22-11/22 05/22-09/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA |
| 05/22-12/22 05/22-11/22 05/22-09/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. |
| 05/22-12/22 05/22-11/22 05/22-09/22 04/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. DOT, |
| 05/22-12/22 05/22-11/22 05/22-09/22 04/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. TDOT, Underwater Inspection and Imaging of 1 Off-System Bridge (TO 2), Doyle, TN – Dive team leader. Responsible for arranging access equip |



| Firm employed b | y Collins Engineers So | outh, Incorpor | rated | | |
|---------------------|------------------------------|--------------------|--|----------------------------------|--|
| Name Matthe | w Rogers, PE, CWI | | Years of experience with this employer | 10 | |
| Title Dive Te | am Leader | | Years of experience with other employer(s) | 2 | |
| Degree(s) / Years | s / Specialization | | MBA / 2015 / Business Administration | | |
| | <u>.</u> | | B.S. / 2014 / Civil Engineering | | |
| Active registration | on number / state / expirat | tion date | #36345 / KY / 06-30-2026 | | |
| Year registered | 2021 D | Discipline | Civil Engineering | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Services Bridges, 2/2019 | | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 1/2023 | | |
| | | | FHWA-NHI-130078 – Fracture Critical Inspection Techniques for Steel Bridge | es, 10/2018 | |
| | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 8/2015 | | |
| | | | ADCI Surface-Supplied Air Diving Supervisor (#61534, expires 7/29/2025) | | |
| | | *1 *1*.* | FAA UAS Drone Pilot (#4604259, issued 12/23/2021) | 10 | |
| Contract role(s) / | brief description of resp | onsibilities | Underwater Inspection Team Leader (satisfies MPRs #8 and # | (9) | |
| Experience dates | Experience and qualifi | ications releva | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. Exp | erience dates | should cover the years of experience specified in the applicable M | PR(s). | |
| | ODOT, 11 Underwater | Bridge Inspect | ions, District 12, OH – Dive team leader. Responsible for arranging access | s equipment, scheduling work, | |
| 05/24-Present | performing and leading ins | spections, gather | ing field notes, and quality control reviews of reports. Additionally, he performe | d standard inspection practices, | |
| 00/211105011 | including crack gauging a | and concrete-sou | unding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA | | |
| | equipment or operated the | comms box and | diving equipment as the designated diving supervisor. | 1.1' | |
| | ODO1, 50 Underwater B | properting the for | ns and 4 Bridge Hydrographic Surveys, District 9, OH – Project manager and | a dive team leader. Responsible | |
| 05/2/1-Present | notes quality control review | ws of reports an | d submitting final deliverables and invoices. Additionally, he performed standard | l inspection practices including | |
| 05/2+ 1 iesent | crack gauging and concrete | e-sounding field | note preparation. He performed diving operations as a diver using commercial | SCUBA or SSA equipment or | |
| | operated the comms box ar | nd diving equip | nent as the designated diving supervisor. | | |
| | TDOT, 15 Underwater Br | ridge Inspection | s, Statewide, TN – Dive team leader. Responsible for arranging access equipmer | nt, scheduling work, performing | |
| 05/2/1-Present | and leading inspections, ga | athering field no | tes, and quality control reviews of reports. Additionally, he performed standard | inspection practices, including | |
| 05/24-1105011 | crack gauging and concrete | e-sounding field | note preparation. He performed diving operations as a diver using commercial | SCUBA or SSA equipment or | |
| | operated the comms box ar | nd diving equipn | nent as the designated diving supervisor. | | |
| | KYIC, 19 Underwater B | sridge Inspectio | ns, and Hydrographic Surveys (TO 1), Statewide, KY – Project manager and | dive team leader. Responsible | |
| 02/24 Dress of | for managing the project, j | preparing the fe | e estimate, arranging access equipment, scheduling work, performing and lead | ing inspections, gathering field | |
| 02/24-Present | crack gauging and concrete | ws of reports, and | note preparation. He performed diving operations as a diver using commercial | SCUBA or SSA equipment or | |
| | operated the comms box ar | c-sounding field | note preparation. The periornited drying operations as a dryer using commercial | SCOBA of SSA equipment of | |
| | operated the commis box at | na arving equipi | | | |

| 01/24-05/24 | ODOT, Underwater Bridge Inspections (TO 2), District 11, OH – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
|-------------|--|
| 05/23-11/23 | FHWA-EFLD, 12 Underwater Bridge Inspections, Nationwide – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 02/23-12/23 | KYTC, 8 Underwater Bridge Inspections, and Hydrographic Surveys (TO 1), Statewide, KY – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 9 Off-System Bridges (TO 1), Statewide, TN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 05/22-12/22 | TDOT, Underwater Inspection and Imaging of 20 On-System Bridges (TO 1), Statewide, TN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 05/22-11/22 | TDOT, Underwater Inspection and Imaging of 19 On-System Bridges (TO 2), Statewide, TN – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 04/22-12/22 | ODOT, 51 Routine Underwater Bridge Inspections (TO 1), District 11, OH – Project manager and dive team leader. Responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |



| Firm en | ployed by | Collins Engineers | South, Incorpo | brated | | |
|----------|------------------|---------------------------|---|---|----------------------------------|--|
| Name | Andrew | Baldwin, EIT | | Years of experience with this employer | 5 | |
| Title | Dive Tea | m Leader | | Years of experience with other employer(s) | 0 | |
| Degree(| (s) / Years | / Specialization | | B.S. / 2019 / Civil Engineering | | |
| Active | egistration | n number / state / exp | iration date | EIT #74669 / TX / 12-02-2029 | | |
| Year res | gistered | 2021 | Discipline | Engineer-in-Training | | |
| | 5 | | – r | Other Pertinent Training / Certifications | | |
| | | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 12/2019 | | |
| | | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 10/2021 | | |
| | | | | ADCI Surface-Supplier Air Diver (#66052, expires 5/9/2028) | | |
| Contrac | t role(s) / 1 | brief description of re | esponsibilities | Underwater Bridge Inspection Team Leader (satisfies MPRs # | <mark>8 and #9</mark>) | |
| Experie | nce dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy | –mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable M | PR(s). | |
| | | TxDOT, 48 Underwa | ter Inspections (| WA 5), Statewide, TX – Dive team leader. Responsible for arranging access | s equipment, scheduling work, | |
| 08/24 | -Present | performing and leading | inspections, gathe | ring field notes, and quality control reviews of reports. Additionally, he performe | d standard inspection practices, | |
| 00/21 | 1 resent | including crack gaugin | g and concrete-so | unding field note preparation. He performed diving operations as a diver using | g commercial SCUBA or SSA | |
| | | equipment or operated | the comms box and Dridge Underw | d diving equipment as the designated diving supervisor. | a aquinmant, achaduling work | |
| | | performing and leading | inspections gathe | ring field notes, and quality control reviews of reports. Additionally, he performed | d standard inspection practices | |
| 06/24 | -Present | including crack gaugin | g and concrete-so | unding field note preparation. He performed diving operations as a diver using | a commercial SCUBA or SSA | |
| | | equipment or operated | the comms box and | d diving equipment as the designated diving supervisor. | | |
| | | ODOT, 11 Underwat | er Bridge Inspec | tions, District 12, OH – Dive team leader. Responsible for arranging access | s equipment, scheduling work, | |
| 05/24 | Procont | performing and leading | inspections, gathe | ring field notes, and quality control reviews of reports. Additionally, he performe | d standard inspection practices, | |
| 03/24 | -riesent | including crack gaugin | g and concrete-so | unding field note preparation. He performed diving operations as a diver using | g commercial SCUBA or SSA | |
| | | equipment or operated | the comms box and | d diving equipment as the designated diving supervisor. | | |
| | | Tradepoint Atlantic, | Bridge AC-1 Und | lerwater Inspection, Sparrows Point, MD – Dive team leader. Responsible for | or arranging access equipment, | |
| 03/24 | -Present | scheduling work, perfo | rming and leading | , inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard | | |
| | | inspection practices, ind | cluding crack gaug | ging and concrete-sounding field note preparation. He performed diving operation | ns as a diver using commercial | |
| | | TyDOT 63 Underwa | ter Inspections (| WA 3) Statewide TX – Dive team leader Responsible for arranging access | s equipment scheduling work | |
| | | performing and leading | inspections gathe | ring field notes and quality control reviews of reports. Additionally he performe | d standard inspection practices | |
| 01/24- | -Present | including crack gaugin | g and concrete-so | unding field note preparation. He performed diving operations as a diver using | g commercial SCUBA or SSA | |
| | | equipment or operated | the comms box and | d diving equipment as the designated diving supervisor. | ~ | |
| | | FHWA-EFLD, Above | -water, Underwat | ter, and Fracture Critical Bridge Inspection, Nationwide – Dive team leader. R | esponsible for arranging access | |
| 03/23 | 8-11/23 | equipment, scheduling | work, performing | and leading inspections, gathering field notes, and quality control reviews of repo | rts. Additionally, he performed | |
| 03/25 |) 11/ <i>4</i> J | standard inspection pra | ctices, including of | crack gauging and concrete-sounding field note preparation. He performed divi | ng operations as a diver using | |
| | | commercial SCUBA or | SSA equipment o | r operated the comms box and diving equipment as the designated diving supervi | sor. | |



| 08/21-08/22 | VDOT, Statewide Underwater Bridge Inspections (LOA 24), Northern Virginia District, VA – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
|-------------|--|
| 06/21-08/22 | Amtrak, 52 Underwater Bridge Inspections, Nationwide – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 06/21-02/22 | VDOT, Statewide 4 Emergency Scour Inspections (LOA 19), Fredericksburg, VA – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 01/21-01/22 | VDOT, Statewide 50 Routine Underwater Bridge Inspections (LOA 17), Statewide, VA – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 08/20-12/20 | VDOT, 9 Emergency Above-water and Underwater Bridge Inspections (LOA 55), Richmond District, VA – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |
| 07/20-04/22 | VDOT, Statewide 89 Underwater Bridge Inspections (LOA 15), Statewide, VA – Dive team leader. Responsible for arranging access equipment, scheduling work, performing and leading inspections, gathering field notes, and quality control reviews of reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment as the designated diving supervisor. |



| Firm en | nployed by | Collins Engineers | s South, Incorpo | prated | |
|------------|---------------|---------------------------|---------------------------|--|-------------------------------------|
| Name | Russell I | Richard, EIT | | Years of experience with this employer | 11 |
| Title | Dive Tea | m Leader | | Years of experience with other employer(s) | 2 |
| Degree | (s) / Years | / Specialization | | M.S. / 2010 / Structural Engineering | |
| | | | | B.S. / 2010 / Architectural Engineering | |
| Active | registration | n number / state / exp | iration date | None / WI / None | |
| Year re | gistered | 2010 | Discipline | Engineer-in-Training | |
| | | | | Other Pertinent Training / Certifications | |
| | | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 12/2016 | |
| | | | | FHWA-NHI-130005 – Bruge Inspection Refresher Training, 5/2021 FHWA NHI 130001 Underwater Bridge Inspection 12/2018 | |
| | | | | ADCI Surface-Supplied Air Diver (#54397, expires 7/27/2026) | |
| Contrac | t role(s) / 1 | brief description of re | esponsibilities | Underwater Inspection Team Leader / Underwater Acoustic In | maging (<mark>satisfies MPR</mark> |
| | | 1 | T | #10) | 0 0 . |
| Experie | nce dates | Experience and qua | difications relevant | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy | –mm/yy) | intersection", etc. E | Experience dates | s should cover the years of experience specified in the applicable M | PR(s). |
| | | City of Jacksonville, | Northbank Bulk | head Condition Assessment and Imaging, Jacksonville, FL - Dive team le | eader. He was responsible for |
| $04/2^{2}$ | 3-12/23 | performing and leading | inspections, imagi | ng, and gathering field notes. He also performed standard inspection practices, inc | luding crack gauging, concrete- |
| 0.72 | | sounding field note pre- | paration, and acou | stic imaging using an Acoustic Imaging Device to determine basic dimensions an region SCUPA or SSA againment, and he operated the comme how and diving again | d any infill or scour. His diving |
| | | TDOT. Underwater I | nspection and Im | aging of 9 Off-System Bridges (TO 1). Statewide, TN - Dive team leader. He | was responsible for performing |
| 05/0 | 10/00 | and leading inspections | s, imaging, and gat | hering field notes. He also performed standard inspection practices, including cra | ack gauging, concrete-sounding |
| 05/22 | 2-12/22 | field note preparation, a | and acoustic imagi | ng using an Acoustic Imaging Device to determine basic dimensions and any infill | or scour. His diving operations |
| | | were performed using of | commercial SCUB | A or SSA equipment, and he operated the comms box and diving equipment. | 11.6 |
| | | and leading inspections | nspection and Im | aging of 20 On-System Bridges (10 1), Statewide, 1N - Dive team leader. He | was responsible for performing |
| 05/22 | 2-12/22 | field note preparation, a | and acoustic imagi | ng using an Acoustic Imaging Device to determine basic dimensions and any infill | or scour. His diving operations |
| | | were performed using o | commercial SCUB | A or SSA equipment, and he operated the comms box and diving equipment. | |
| | | TDOT, Underwater I | nspection and Im | aging of 19 On-System Bridges (TO 2), Statewide, TN - Dive team leader. He | was responsible for performing |
| 05/2 | 2-11/22 | and leading inspections | s, imaging, and gat | hering field notes. He also performed standard inspection practices, including cra | ick gauging, concrete-sounding |
| 03/21 | 2 11/22 | were performed using (| and acoustic imagi | ng using an Acoustic Imaging Device to determine basic dimensions and any infill A or SSA equipment and he operated the comms hox and diving equipment | or scour. His diving operations |
| | | TDOT Underwater I | nenaction and Im | aging of 1 Off System Bridge (TO 2) Davis TN _ Dive teem leader. He was | responsible for performing and |
| | | leading the inspection. | imaging, and gath | ering field notes. He also performed standard inspection practices, including cra | ick gauging, concrete-sounding |
| 05/22 | 2-09/22 | field note preparation, a | and acoustic imagi | ng using an Acoustic Imaging Device to determine basic dimensions and any infill | or scour. His diving operations |
| | | were performed using o | commercial SCUB | A or SSA equipment, and he operated the comms box and diving equipment. | |



| | VDOT Statewide, Underwater Bridge Inspection and Imaging (LOA 18), Sussex, VA - Dive team leader. He was responsible for performing and |
|-------------|---|
| 03/21 02/22 | leading the inspection, imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding |
| 03/21-02/22 | field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations |
| | were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | Rhode Island Turnpike and Bridge Authority, 4 Underwater Bridge Inspections and Imaging (TO 2), Various Locations, RI - Dive team leader. |
| 04/22 08/22 | He was responsible for performing and leading inspections, imaging, and gathering field notes. He also performed standard inspection practices, including |
| 04/22-08/22 | crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any |
| | infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | ODOT, 37 Underwater Bridge Inspections, District 11, OH - Dive team leader. He was responsible for performing and leading inspections, imaging, |
| 06/17 12/21 | and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding field note preparation, and acoustic |
| 00/1/-12/21 | imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations were performed using commercial |
| | SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | KYTC, 6 Underwater Bridge Inspections and Imaging, Statewide, KY - Dive team leader. He was responsible for performing and leading inspections, |
| 01/17 04/10 | imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding field note preparation, |
| 01/1/-04/18 | and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations were performed |
| | using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | TDOT, 6 Underwater Bridge Inspections and Acoustic Imaging of 4 Bridges, Statewide, TN - Dive team leader. He was responsible for performing |
| 06/16 05/17 | and leading inspections, imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding |
| 00/10-05/17 | field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations |
| | were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | City of Worcester, Pine Hill Reservoir Underwater Dam Inspection, Worchester, MA - Dive team leader. He was responsible for performing and |
| 05/14/00/16 | leading inspections, imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding field |
| 05/14-08/16 | note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations |
| | were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |
| | VDOT Statewide, 11 Underwater Bridge Inspections (LOA 94), Richmond District, VA - Dive team leader. He was responsible for performing and |
| 12/14 04/17 | leading inspections, imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding field |
| 12/14-04/1/ | note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions and any infill or scour. His diving operations |
| | were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. |



| Firm employed by | Collins Engineers | s, Incorporated | | |
|----------------------|---------------------------|----------------------|---|-------------------------------------|
| Name Roy For | syth, PE, CWI | | Years of experience with this employer | 21 |
| Title Dive Tea | am Leader | | Years of experience with other employer(s) | 0 |
| Degree(s) / Years | / Specialization | | M.S. / 2010 / Structural Engineering | |
| | | | B.S. / 2003 / Civil Engineering | |
| Active registration | n number / state / exp | iration date | #39042-6 / WI / 07-31-26 | |
| Year registered | 2007 | Discipline | Civil Engineering | |
| | | | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 8/2003 | |
| | | | FHWA-NHI-130053 - Bridge Inspection Refresher Training, 6/2021 FHWA NHI 130056 Sofaty Inspection of In Service Bridges for Professional | Engineers $4/2018$ |
| | | | FHWA-NHI-130091 - Underwater Bridge Inspection 5/2007 | Eligineers, 4/2018 |
| | | | ADCI Surface-Supplied Air Diving Supervisor (#37931, expires 6/3/2025) | |
| Contract role(s) /] | brief description of re | esponsibilities | Underwater Inspection Team Leader / Underwater Acoustic In | maging (<mark>satisfies MPR</mark> |
| | | | #10) | |
| Experience dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed |
| (mm/yy–mm/yy) | intersection", etc. E | Experience dates | s should cover the years of experience specified in the applicable M | PR(s). |
| | Nebraska DOT, Olsso | n Niobrara Unde | rwater Inspection, Niobrara, NE - Project manager and dive team leader. He wa | as responsible for managing the |
| | project, preparing the fe | e estimate, arrangi | ng access equipment, scheduling work, performing and leading the inspection and | l imaging, gathering field notes, |
| 12/22-06/23 | quality control review | of the report, and | submitting final deliverables and invoices. He also performed standard inspec | tion practices, including crack |
| | gauging, concrete-soun | aing field note pre | paration, and acoustic imaging using an Acoustic imaging Device to determine permed using commercial SCUBA or SSA equipment, and he operated the comm | basic dimensions and any infili |
| | the designated diving s | upervisor. | Since using commercial SCODA of SSA equipment, and ne operated the comm | is box and drying equipment as |
| | Mackinac Bridge Aut | hority, Mackinac | Bridge Underwater Inspection, St. Ignace, MI - Project manager and dive team | n leader. He was responsible for |
| | managing the project, | preparing the fee | estimate, arranging access equipment, scheduling work, performing and leadir | ng the inspection and imaging, |
| 06/22-12/22 | gathering field notes, qu | uality control revie | w of the report, and submitting final deliverables and invoices. He also performe | d standard inspection practices, |
| | including crack gauging | g, concrete-soundir | ing field note preparation, and acoustic imaging using an Acoustic Imaging Device | e to determine basic dimensions |
| | and any initial or scour. | His diving operation | ons were performed using commercial SCOBA or SSA equipment, and he opera | ated the comms box and diving |
| | MDT. 2 Underwater 1 | Bridge Inspection | s and Acoustic Imaging, Various Locations, MT - Project manager and dive to | eam leader. He was responsible |
| | for managing the proje | ect, preparing the f | fee estimate, arranging access equipment, scheduling work, performing and lea | ading inspections and imaging, |
| 10/17-04/18 | gathering field notes, q | uality control revie | ews of reports, and submitting final deliverables and invoices. He also performed | d standard inspection practices, |
| 10/1/-04/10 | including crack gauging | g, concrete-soundir | ng field note preparation, and acoustic imaging using an Acoustic Imaging Device | e to determine basic dimensions |
| | and any infill or scour. | His diving operati | ons were performed using commercial SCUBA or SSA equipment, and he operation | ated the comms box and diving |
| | equipment as the design | hated diving superv | /isor. | |

| | ALDOT, Duncan Underwater Bridge Inspection and Imaging, Winston County, AL - Project manager and dive team leader. He was responsible for |
|---------------|--|
| | managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading the inspection and imaging, |
| 01/20 05/20 | gathering field notes, quality control review of the report, and submitting final deliverables and invoices. He also performed standard inspection practices, |
| 01/20-05/20 | including crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions |
| | and any infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving |
| | equipment as the designated diving supervisor. |
| | NDOT, Emergency Underwater Inspection and Imaging of 28 Bridges, Statewide, ND - Project manager and dive team leader. He was responsible |
| | for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections and imaging, |
| 07/10 06/20 | gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. He also performed standard inspection practices, |
| 07/19-00/20 | including crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions |
| | and any infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving |
| | equipment as the designated diving supervisor. |
| | NDOT, 178 Underwater Bridge Inspections, and 7 Hydrographic Surveys/Imaging, Statewide, ND - Project manager and dive team leader. He was |
| | responsible for managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections and |
| 04/18-02/19 | imaging, gathering field notes, quality control reviews of reports, and submitting final deliverables and invoices. He also performed standard inspection |
| 04/10-02/17 | practices, including crack gauging, concrete-sounding field note preparation, and 7 hydrographic surveys with 2-D acoustic imaging using an Acoustic |
| | Imaging Device to determine basic dimensions and any infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, |
| | and he operated the comms box and diving equipment as the designated diving supervisor. |
| | WisDOT, Underwater Construction Inspection and Imaging, Wisconsin Rapids, WI - Project manager and dive team leader. He was responsible for |
| | managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading the inspection and imaging, |
| 07/17-4/18 | gathering field notes, quality control review of the report, and submitting final deliverables and invoices. He also performed standard inspection practices, |
| 0,,1,, 1,10 | including crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic Imaging Device to determine basic dimensions |
| | and any infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving |
| | equipment as the designated diving supervisor. |
| | WisDOT, Emergency Underwater Imaging of 3 Bridges (WO 18), Ashland, WI - Project manager and dive team leader. He was responsible for |
| | managing the project, preparing the fee estimate, arranging access equipment, scheduling work, performing and leading inspections and imaging, gathering |
| 12/16-01/18 | field notes, quality control reviews of reports, and submitting final deliverables and invoices. He also performed standard inspection practices, including |
| | crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic imaging Device to determine basic dimensions and any |
| | infill or scour. His diving operations were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment |
| | as the designated diving supervisor. |
| | MDO1 , International Bridge Underwater Inspection – Dive team leader. He was responsible for arranging access equipment, scheduling work, |
| 07/14 04/19 | performing and leading inspections and imaging, gattering field notes, and quarty control reviews of reports. He also performed standard inspection |
| 07/14-04/18 | practices, including crack gauging, concrete-sounding field note preparation, and acoustic imaging using an Acoustic imaging Device to determine basic |
| | and diving aquipment as the designeted diving operations were performed using commercial SCOBA or SSA equipment, and ne operated the commissions |
| | and diving equipment as the designated diving supervisor. |
| | the project properting the fee estimate entropying access equipment, scheduling work, performing and leading inspections and imaging access equipment. |
| | not project, preparing the recession and magning access equipment, scheduling work, performed standard inspections and magning, gathering field |
| 08/14 - 10/14 | auging concrete-sounding field note preparation and acoustic imaging using an Acoustic Imaging Davice to determine basic dimensions and any infill |
| | or scour. His diving operations were performed using commercial SCUBA or SSA equipment and he operated the commercial source of the scource of o |
| | the designated diving supervisor |
| | |



| Firm employed by | y Collins Engineers | s South, Incorpo | prated | |
|----------------------|--------------------------|----------------------|---|----------------------------------|
| Name Taylor A | Arnold, EIT | * | Years of experience with this employer | 3 |
| Title Dive Ins | pector | | Years of experience with other employer(s) | 0 |
| Degree(s) / Years | / Specialization | | B.S. / 2021 / Civil Engineering | |
| Active registratio | n number / state / exp | iration date | EIT#0420073557 / GA / None | |
| Year registered | 2021 | Discipline | Engineer-in-Training | |
| | | | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-service Bridges, 8/2021 | |
| | | | ADCL Surface Supplied Air Diver (#67701: expires 6/2/2022) | |
| Contract role(s) / | brief description of re | esponsibilities | Underwater Bridge Inspector (satisfies MPR #9) | |
| Experience dates | Experience and qua | lifications relev | contract water bridge inspector (statistics for (x,y)) | irders" "designed |
| (mm/vv-mm/vv) | intersection" etc. F | xperience dates | should cover the years of experience specified in the applicable M | PR(s) |
| | FHWA-EFL, 28 Unite | ed States Air Forc | e Bridge Inspections, Nationwide – Dive team member. Performed inspections. | gathered field notes, and wrote |
| 05/24-Present | reports. Additionally, h | ne performed stand | ard inspection practices, including crack gauging and concrete-sounding field n | note preparation. He performed |
| | diving operations as a c | liver using comme | rcial SCUBA or SSA equipment or operated the comms box and diving equipment | nt. |
| | VDOT, 10 Underwat | er and 1 Above-v | water and Underwater Inspection (LOA 14), Lynchburg District, $VA = D$ | Dive team member. Performed |
| 02/24-Present | sounding field note pre | paration He perfor | med diving operations as a diver using commercial SCUBA or SSA equipment of | or operated the comms box and |
| | diving equipment. | putation. The period | | si operated the commis box and |
| | VDOT Statewide, 5 U | nderwater Bridge | e Inspections (LOA 97), Richmond District, VA – Dive team member. Perform | med inspections, gathered field |
| 01/24-Present | notes, and wrote report | s. Additionally, he | performed standard inspection practices, including crack gauging and concrete-s | ounding field note preparation. |
| | He performed diving of | perations as a diver | using commercial SCUBA or SSA equipment or operated the comms box and d | iving equipment. |
| | VDOT Statewide, 11 | Underwater Bridg | ge Inspections (LOA 94), Richmond District, VA – Dive team member. Perform | med inspections, gathered field |
| 01/24-Present | He performed diving or | s. Additionally, ne | using commercial SCUBA or SSA equipment or operated the comms box and d | iving equipment |
| | FUWA FELD 5 Not | onal Dark Sorria | a Underwater Pridge Inspections Nationwide Dive teem member Defor | rong equipment. |
| 09/23-12/23 | notes, and wrote report | s. Additionally, he | performed standard inspection practices, including crack gauging and concrete-s | sounding field note preparation. |
| 07/20 12/20 | He performed diving of | perations as a diver | using commercial SCUBA or SSA equipment or operated the comms box and d | iving equipment. |
| | VDOT Statewide, 40 | Underwater Bridg | ge Inspections (LOA 89), Richmond District, VA – Dive team member. Perform | med inspections, gathered field |
| 07/23- 02/24 | notes, and wrote report | s. Additionally, he | performed standard inspection practices, including crack gauging and concrete-s | ounding field note preparation. |
| | He performed diving of | perations as a diver | using commercial SCUBA or SSA equipment or operated the comms box and d | iving equipment. |
| 05/23-11/23 | Additionally, he perfor | med standard insr | ection practices, including crack gauging and concrete-sounding field note pre- | paration. He performed diving |
| | operations as a diver us | sing commercial SC | CUBA or SSA equipment or operated the comms box and diving equipment. | r no performed dring |



| d inspections, gathered |
|---------------------------|
| te-sounding field note |
| nd diving equipment. |
| pections, gathered field |
| field note preparation. |
| uipment. |
| pections, gathered field |
| field note preparation. |
| uipment. |
| Performed inspections, |
| ete-sounding field note |
| nd diving equipment. |
| pections, gathered field |
| field note preparation. |
| uipment. |
| pections, gathered field |
| field note preparation. |
| uipment. |
| ns, gathered field notes, |
| d note preparation. He |
| nent. |
| d inspections, gathered |
| te-sounding field note |
| nd diving equipment. |
| |



| Firm employed b | y Collins Engineers S | South, Incorpo | prated | |
|---------------------|---|--------------------------------------|--|----------------------------------|
| Name Carolin | e Knapp, EIT | | Years of experience with this employer | 3 |
| Title Dive Ins | spector | | Years of experience with other employer(s) | 0 |
| Degree(s) / Years | s / Specialization | | B.S. / 2021 / Civil Engineering | |
| Active registration | on number / state / expira | ation date | EIT#0420073811 / VA / None | |
| Year registered | 2021 I | Discipline | Engineer-in-Training | |
| | | | Other Pertinent Training / Certifications | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 3/2022 | |
| | | | ADCI Entry Level Tender/Diver (#66128, expires 5/31/2025) | |
| Contract role(s) / | brief description of rest | onsibilities | Underwater Bridge Inspector (satisfies MPR #9) | |
| Experience dates | Experience and qualif | fications relev | zant to the proposed contract: $i \rho$ "designed drainage" "designed g | irders" "designed |
| (mm/vv_mm/vv) | intersection" etc. Exr | perience dates | should cover the years of experience specified in the applicable M | PR(s) |
| | VDOT Statewide, Emerg | gency Underwa | ter Bridge Inspection (LOA 112). Richmond District, VA – Dive team memb | per. She performed inspections. |
| 05/24 Dracont | gathered field notes, and | wrote reports. A | dditionally, she performed standard inspection practices, including crack gauging | g and concrete-sounding, along |
| 03/24-Fiesent | with field note preparatio | n. She performe | ed diving operations as a diver using commercial SCUBA or SSA equipment of | r operated the comms box and |
| | diving equipment. | States Air For | a Pridge Increations Nationwide Dive team member She performed increase | tions gathered field notes and |
| 05/24-Present | wrote reports. Additional | ly, she perform | ed standard inspection practices, including crack gauging and concrete-soundi | ng field note preparation. She |
| 00/211100000 | performed diving operatio | ons as a diver us | ing commercial SCUBA or SSA equipment or operated the comms box and divin | ig equipment. |
| | VDOT, 10 Underwater | and 1 Above-w | ater and Underwater Inspection (LOA 14), Lynchburg District, VA – Dive | team member. She performed |
| 02/24-Present | inspections, gathered field | d notes, and wr | ote reports. Additionally, she performed standard inspection practices, includin | g crack gauging and concrete- |
| | diving equipment | ration. She perio | simed diving operations as a diver using commercial SCOBA or SSA equipment of | or operated the comms box and |
| | VDOT Statewide, 5 Und | lerwater Bridg | e Inspections (LOA 97), Richmond District, VA – Dive team member. She p | erformed inspections, gathered |
| 01/24-Present | field notes, and wrote re | ports. Addition | ally, she performed standard inspection practices, including crack gauging and | 1 concrete-sounding field note |
| | preparation. She performe | ed diving operation | ons as a diver using commercial SCUBA or SSA equipment or operated the com | ms box and diving equipment. |
| 01/04 5 | VDOT Statewide, 11 Un | derwater Brid | ge Inspections (LOA 94), Richmond District, VA – Dive team member. She p | erformed inspections, gathered |
| 01/24-Present | preparation She performe | ports. Additionated diving operation | ally, she performed standard inspection practices, including crack gauging and ions as a diver using commercial SCUBA or SSA equipment or operated the com | s box and diving equipment |
| | FHWA EFLD 5 Nationa | al Park Service | Inderwater Bridge Inspections Nationwide – Dive team member. She perfor | med inspections, gathered field |
| 09/23-12/23 | notes, and wrote reports. A | Additionally, she | e performed standard inspection practices, including crack gauging and concrete-s | sounding field note preparation. |
| | She performed diving ope | rations as a dive | er using commercial SCUBA or SSA equipment or operated the comms box and c | living equipment. |
| 07/22.02/24 | VDOT Statewide, 40 Un | derwater Brid | ge Inspections (LOA 89), Richmond District, VA – Dive team member. She p | erformed inspections, gathered |
| 07/23-02/24 | field notes, and wrote reported by the performance of the performance | ports. Additionated diving operation | ally, she performed standard inspection practices, including crack gauging and | 1 concrete-sounding field note |
| | preparation. She performe | a arving operation | ions as a driver using commercial SCOBA or SSA equipment of operated the com | ins oox and diving equipment. |

| 05/23-11/23 Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. She performed division operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. VDOT Statewide, 10 Underwater Bridge Inspection (LOA 72), Richmond District, VA – Dive team member. She performed inspections, gather |
|---|
| operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. VDOT Statewide, 10 Underwater Bridge Inspection (LOA 72), Richmond District, VA – Dive team member. She performed inspections, gather |
| VDOT Statewide, 10 Underwater Bridge Inspection (LOA 72), Richmond District, VA – Dive team member. She performed inspections, gather |
| |
| 02/23-08/23 field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field not |
| preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment |
| VDOT Statewide, 2 Underwater Bridge Inspections (LOA 19), Richmond District, VA – Dive team member. She performed inspections, gather |
| 07/22-03/23 field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field net |
| preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment |
| VDOT Statewide, Above-water and Underwater Bridge Inspections (LOA 39), Richmond District, VA – Dive team member. She perform |
| inspections, gathered field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concre |
| sounding field note preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box a |
| diving equipment. |
| VDOT Statewide, 13 Underwater Bridge Inspections (LOA 32), Richmond District, VA – Dive team member. She performed inspections, gather |
| 02/22-01/23 field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field net |
| preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment |
| VDOT Statewide, 34 Underwater Bridge Inspections (LOA 30), Richmond District, VA – Dive team member. She performed inspections, gather |
| 02/22-01/23 field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field net |
| preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment |
| VDOT Statewide, Underwater Bridge Inspection (LOA 29), Richmond District, VA – Dive team member. She performed inspections, gathered fire |
| 12/21-07/22 notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field note preparative |
| She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| VDOT Statewide, 7 Underwater Bridge Inspections (LOA 27), Fredericksburg District, VA - Dive team member. She performed inspections, gather |
| 09/21-08/22 field notes, and wrote reports. Additionally, she performed standard inspection practices, including crack gauging and concrete-sounding field net |
| preparation. She performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment |


| Firm em | ployed by | Collins Engineers | South, Incorpo | prated | | | |
|------------|----------------------|--|---------------------------------------|--|---------------------------------|--|--|
| Name | Callen Papineau, EIT | | | Years of experience with this employer | 3 | | |
| Title | Title Dive Inspector | | | Years of experience with other employer(s) | 0 | | |
| Degree(s | s) / Years | / Specialization | | B.S. / 2021 / Civil Engineering | | | |
| Active re | egistration | n number / state / exp | iration date | EIT#0420073852 / VA / None | | | |
| Year reg | gistered | 2021 | Discipline | Engineer-in-Training | | | |
| | | | - | Other Pertinent Training / Certifications | | | |
| | | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 9/2021 | | | |
| | | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 6/2022 | | | |
| ~ | | | | ADCI Entry Level Tender/Diver (#64580; expires 07/06/2026) | | | |
| Contract | role(s)/ | brief description of re | sponsibilities | Underwater Bridge Inspector (satisfies MPR #9) | | | |
| Experien | nce dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy– | -mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable MI | PR(s). | | |
| | | USFWS-SEH, Fishing | Bridge Underwa | ter Inspection, Vian, OK – Dive team leader. He was responsible for arranging | g access equipment, scheduling | | |
| 06/24-1 | Present | work, performing and l | eading inspection | s, gathering field notes, and quality control reviews of reports. Additionally, he | performed standard inspection | | |
| | | practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or | | | | | |
| | | FHWA - FFL 28 United | ated the comms be d States Air For | ox and diving equipment as the designated diving supervisor. | tions gathered field notes and | | |
| 05/24-1 | Present | wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He | | | | | |
| 03/211 | resent | performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | | | |
| | | FHWA-EFLD, 9 Above-water and 3 Underwater Bridge Inspections, Charleston, SC – Bridge inspection team member and a dive team member. He | | | | | |
| 03/24 | 06/24 | performed above-water and underwater inspections, gathered field notes, and wrote reports. Additionally, he performed standard inspection practices, | | | | | |
| 03/24- | -00/24 | including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA | | | | | |
| | | equipment or operated the comms box and diving equipment. | | | | | |
| 0.1.10.1 | 00/04 | City of Alexandria, Potomac Ave Bridge Underwater Inspection, Alexandria, VA – Dive team member. He performed inspections, gathered field | | | | | |
| 01/24- | - 02/24 | notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. | | | | | |
| | | He performed diving op | perations as a diver | r using commercial SCUBA or SSA equipment or operated the comms box and di | iving equipment. | | |
| 00/22 | 10/02 | r H WA EFLD, 5 Nauo | Additionally he | s Underwater Bridge Inspections, Nationwide – Dive team member. He perior | ounding field note preparation | | |
| 09/25- | -12/23 | houses, and wrote reports. Additionally, ne performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. | | | | | |
| | | VDOT Statewide 40 I | Underwater Brid | a Inspections (I OA 80) Richmond District VA Dive team member He p | erformed inspections, gathered | | |
| 07/23- | -02/24 | field notes and wrote | reports Addition | ally he performed standard inspection practices including crack gauging and | concrete-sounding field note | | |
| 07/25-02/2 | 02/21 | preparation. He perform | ned diving operation | ons as a diver using commercial SCUBA or SSA equipment or operated the comm | ns box and diving equipment. | | |
| | | TxDOT, 13 Underwat | er Inspections (W | (A 1), Statewide, TX – Dive team member. He performed inspections, gathered | field notes, and wrote reports. | | |
| 02/23-03/2 | -03/23 | Additionally, he perfor | med standard insp | pection practices, including crack gauging and concrete-sounding field note pre | paration. He performed diving | | |
| | | operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | | | |

| | ODOT, 51 Underwater Bridge Inspections, District 11, OH – Dive team member. He performed inspections, gathered field notes, and wrote reports. |
|-------------|---|
| 04/22-12/22 | Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving |
| | operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | VDOT, Statewide 2 Routine Underwater Bridge Inspections (LOA 24), Statewide, VA – Dive team member. He performed inspections, gathered field |
| 08/21-12/21 | notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. |
| | He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | VDOT, Statewide 4 Emergency Scour Inspections (LOA 19), Fredericksburg, VA – Dive team member. He performed inspections, gathered field |
| 06/21-02/22 | notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. |
| | He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | DDOT , 12 Bridge Underwater Inspections, Washington, DC – Dive team member. He performed inspections, gathered field notes, and wrote reports. |
| 03/21-08/21 | Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving |
| | operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| 01/21-01/22 | VDOT , Statewide 50 Routine Underwater Bridge Inspections (LOA 17), Statewide, VA – Dive team member. He performed inspections, gathered |
| | field notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note |
| | preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |



| Firm employed | Firm employed by Collins Engineers South, Incorporated | | | | | |
|---|--|--|---|---------------------------------|--|--|
| Name Desm | ond Castillo | * | Years of experience with this employer | 4 | | |
| Title Dive | Inspector | | Years of experience with other employer(s) | 0 | | |
| Degree(s) / Ye | ars / Specialization | | B.S. / 2022 / Civil Engineering | | | |
| Active registra | tion number / state / exp | iration date | N/A | | | |
| Year registered | N/A | Discipline | N/A | | | |
| | | | Other Pertinent Training / Certifications | | | |
| | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 2/2023 | | | |
| | | | ADCI Surface-Supplied Air Diver (#660/1, expires 5/10/2028) | | | |
| O | | · · · · · · · · · · · · · · · · · · · | FAA UAS Drone Pilot (#43/1/46, issued $3/2/2020$) | | | |
| Contract role(s |) / brief description of re | esponsibilities | Underwater Bridge Inspector (satisfies MPR #9) | • 1 • 4 4 1 • 1 | | |
| Experience dat | es Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/y | y) intersection", etc. E | xperience dates | should cover the years of experience specified in the applicable M. | PR(s). | | |
| 01/24 Dresent | TxDOT, 63 Underwat | TxDOT, 63 Underwater Bridge Inspections (WA 3) - Dive team member. Performed inspections, gathered field notes, and wrote reports. Additionally, | | | | |
| 01/24-Present | diver using commercial | diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment | | | | |
| | NAVFAC Midlantic, I | NAVFAC Midlantic, P930 Evaluation, Norfolk, VA - Dive team member. Performed inspections, gathered field notes, and wrote reports. Additionally, | | | | |
| 10/23-04/24 | he performed standard | he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a | | | | |
| | diver using commercial | diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | | |
| | NAVFAC Midlantic, 1 | NAVFAC Midlantic, Piers 12 and 14 Inspections, Norfolk, VA - Dive team member. Performed inspections, gathered field notes, and wrote reports. | | | | |
| 09/23-05/24 | Additionally, he perfor | Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms how and diving equipment. | | | | |
| | operations as a diver us | City of Decomment. Naches Diver Infractional Ingrestions, Decomment, TV, Discourse to Defend the Defendation of the Line of the second se | | | | |
| 00/00 11/00 | City of Beaumont, Ne | City of Beaumont, Neches River Infrastructure Inspections, Beaumont, TX - Dive team member. Performed inspections, gathered field notes, and wrote reports. Additionally, he performed standard inspection practices, including grack gauging and concrete sounding field note preparation. He | | | | |
| 09/23-11/23 | performed diving opera | performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | | |
| | NAVEAC-EXWC Ba | ngor Marginal W | harf Underwater Inspections Bangor WA - Dive team member Performed in | spections, gathered field notes | | |
| 09/23-12/23 | and wrote reports. Add | and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He | | | | |
| 0)/23 12/23 | performed diving opera | performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | | |
| | Port of Tampa, Berth | Port of Tampa, Berth 139 Waterfront Facility Inspection, Tampa, FL - Dive team member. Performed inspections, gathered field notes, and wrote | | | | |
| 06/23-12/23 | reports. Additionally, h | reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed | | | | |
| diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment | | | nt. | | | |
| 07/23-12/23 | Fort Arthur Internation | onal Public Port, | Berth 6 Construction Management / Construction Inspections Auxiliary, Pe | ort of Port Arthur, TX - Dive | | |
| | gauging and concrete-se | ounding field note | preparation. He performed diving operations as a diver using commercial SCUBA | A or SSA equipment or operated | | |
| | the comms box and div | ing equipment. | | | | |

COLLINS ENGINEERS

| | BAE Systems Jacksonville Ship Repair, Inc., 4K Railway Survey and Certification, Jacksonville, FL - Dive team member. Performed inspections, |
|-------------|---|
| 05/23-05/24 | gathered field notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note |
| | preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | Buckeye Partners, L.P., Emergency Waterfront Inspection of Marrero Terminal Dock 3, Marrero, LA - Dive team member. Performed inspections, |
| 05/23-06/23 | gathered field notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note |
| | preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | TxDOT, 13 Underwater Bridge Inspections (WO 1), Statewide, TX - Dive team member. Performed inspections, gathered field notes, and wrote reports. |
| 02/23-03/23 | Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving |
| | operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | Cheniere - Sabine Pass LNG, Above-water and Underwater Inspection, Sabine Pass, LA - Dive team member. Performed inspections, gathered field |
| 01/23-03/23 | notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. |
| | He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| | Orange County Economic Development Corporation, Humble Island Study, Orange, TX - Dive team member. Performed inspections, gathered field |
| 01/23-03/23 | notes, and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. |
| | He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |
| 04/22-04/22 | BASF Chemicals Division, Underwater Railroad Bridge Inspection, Freeport, TX - Dive team member. Performed inspections, gathered field notes, |
| | and wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He |
| | performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. |



| Firm em | ployed by | Collins Engineers | s South, Incorpo | rated | |
|----------|--------------------|--|--|---|--|
| Name | Caleb K | lein | | Years of experience with this employer | 1 |
| Title | Dive Insp | pector | | Years of experience with other employer(s) | 5 |
| Degree(| s) / Years | / Specialization | | A.A.S. / 2024 / Process Operations | |
| Active r | egistration | n number / state / exp | oiration date | N/A | |
| Year reg | gistered | N/A | Discipline | N/A | |
| | | | | Other Pertinent Training / Certifications | |
| | | | | FHWA-NHI-130091 – Underwater Bridge Inspection, 3/2024 | |
| Contract | t role(s) /] | brief description of re | esponsibilities | Underwater Bridge Inspector (satisfies MPR #9) | |
| Experier | nce dates | Experience and au | alifications relev | vant to the proposed contract: $i \rho$ "designed drainage" "designed g | irders" "designed |
| (mm/vv- | -mm/vv) | intersection" etc. F | Experience dates | should cover the years of experience specified in the applicable M | PR(s) |
| 07/24- | Present | USCG - CEU-Clevela | nd, OH, Hawkins | Point Underwater Inspection, Baltimore, MD - Dive team member. He perfor | med inspections, gathered field |
| | | notes, and wrote report | s. Additionally, he | performed standard inspection practices, including crack gauging and concrete-s | sounding field note preparation. |
| 0.6/0.4 | D | He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | |
| 06/24- | Present | Additionally be performed standard inspection practices including crack gauging and concrete-sounding field note preparation. He performed diving | | | |
| | | operations as a diver using commercial SCUBA or SSA equipment or operated the comms box and diving equipment. | | | |
| 05/24- | Present | FHWA-EFL, 28 United States Air Force Bridge Inspections, Nationwide - Dive team member. He performed inspections, gathered field notes, and | | | |
| | | wrote reports. Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He | | | |
| 04/24 | Dragant | CSV Transportation | Inc. P & D ion U | adamined and SCOBA of SSA equipment of operated the commis box and drvin | ig equipment. |
| 04/24- | Present | field notes, and wrote | reports. Addition | ally, he performed standard inspection practices, including crack gauging and | d concrete-sounding field note |
| | | preparation. He perform | ned diving operation | ons as a diver using commercial SCUBA or SSA equipment or operated the commercial | ms box and diving equipment. |
| 04/24- | Present | USCG, 26 ATON Inspections and Assessments (TO 13), Various Locations, TX/FL/PR - Dive team member. He performed inspections, gathered field | | | |
| | | notes, and wrote report | s. Additionally, he | performed standard inspection practices, including crack gauging and concrete-s | sounding field note preparation. |
| 01/24- | Present | TxDOT. 63 Underwater Bridge Inspections (WA 3) - Dive team member. He performed inspections, gathered field notes, and wrote reports. | | | |
| 01/24- | 1 resent | Additionally, he performed standard inspection practices, including crack gauging and concrete-sounding field note preparation. He performed diving | | | |
| | | operations as a diver us | sing commercial S | CUBA or SSA equipment or operated the comms box and diving equipment. | |
| 12/23 | 6-04/24 | USCG Galveston Bas | e, Inspection of E | xisting Breakwater, Galveston, TX - Dive team member. He performed inspected at advertised inspective and according and according to the second standard inspective according to the second standard inspective according to the second standard standard inspective according to the second standard inspective according to the second standard standard inspective according to the second standard standard inspective according to the second standard stand | tions, gathered field notes, and |
| | | performed diving opera | ations as a diver us | ing commercial SCUBA or SSA equipment or operated the comms box and divir | ng neid note preparation. He |
| 01/24- | Present 3-04/24 | He performed diving op TxDOT, 63 Underwa Additionally, he perfor operations as a diver us USCG Galveston Bas wrote reports. Additio performed diving opera | perations as a diver ater Bridge Inspe- rmed standard insp sing commercial SO e, Inspection of E nally, he perform- ations as a diver us | ctions (WA 3) - Dive team member. He performed inspections, gathered f ection practices, including crack gauging and concrete-sounding field note pre <u>CUBA or SSA equipment or operated the comms box and diving equipment.</u> xisting Breakwater, Galveston, TX - Dive team member. He performed inspect ed standard inspection practices, including crack gauging and concrete-sound ing commercial SCUBA or SSA equipment or operated the comms box and diving field note pre | iving equipment. ield notes, and wrote reports. paration. He performed diving ctions, gathered field notes, and ling field note preparation. He ng equipment. |



| 07/23-12/23 | Port Arthur International Public Port, Berth 6 Construction Management / Construction Inspections Auxiliary, Port of Port Arthur, TX - Dive |
|-------------|---|
| | team member. He performed inspections, gathered field notes, and wrote reports. Additionally, he performed standard inspection practices, including crack |
| | gauging and concrete-sounding field note preparation. He performed diving operations as a diver using commercial SCUBA or SSA equipment or operated |
| | the comms box and diving equipment. |



| Name Tanner Harmon Years of experience with this employer 6 Title Dive Team Leader Years of experience with other employer(s) 0 Degree(s) / Years / Specialization B.S. / 2017 / Mechanical Engineering 0 Active registration number / state / expiration date N/A N/A Year registered N/A Discipline N/A Other Pertinent Training / Certifications FHWA-NHL 130055 - Safety Inspection Refresher Training, 92023 FAA UAS Remore Fhol (44390782, issued 5/29/2020) Contract role(s) / brief description of responsibilities Underwater Acoustic Imaging / UAS Pilot Experience dates should cover the years of experience specified in the applicable MPR(s). Contract role(s) / brief description gathering field notes. He also performed standari inspection practices, including crack gauging, and gathering field notes. Mr. Harmon also operated the comms box and diving equipment. For to Port Arthur, Reft 5 Construction Management and Construction Inspection, prot. Ray - Team member / dive team member / dive. He was responsible for inspecting, imaging, and gathering field notes, field sing gathering field notes. Mr. Harmon also operated the comms box and diving equipment. 03/20-02/23 Fort of Port Ar | Firm employ | ed by Collins Engineer | s South, Incorpo | rated | | | |
|---|---------------|---------------------------------|---|---|--|--|--|
| Title Dive Team Leader Years of experience with other employer(s) 0 Degree(s) / Years / Specialization B.S. / 2017 / Mechanical Engineering 0 Active registration number / state / expiration date N/A Discipline N/A Vear registered N/A Discipline N/A Other Pertinent Training / Certifications FHWA-NHI-130055 - Baitey Inspection of In-Service Bridges, 2/2019 FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2/2019 Contract role(s) / brief description of responsibilities Underwater Acoustic Imaging / UAS Pilot Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed member. He was responsible for performing acoustic Imaging using an Acoustic Imaging Device to determine basic dimensions, any infill or scour, and gathering field notes. Mr. Harmon also operated the comms box and diving equipment. 03/20-02/23 For tof Port Arthur, Berth S Construction Management and Construction Inspection, Port Arthur, TX - Team member / diver. He was responsible for inspecting, imaging, and gathering field notes. He also performed standard inspection practices, including crack gauging, concrete-sounding field notes were performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. 00/20-00/21 Moran Towing, Underwater Bulkhead Inspection, Cameron, L.A. Team member / dive team member. He was responsible for performing | Name Tan | ner Harmon | | Years of experience with this employer | 6 | | |
| Degree(s) / Years / Specialization B.S. / 2017 / Mechanical Engineering Active registration number / state / expiration date N/A N/A Year registered N/A Discipline N/A Other Pertinent Training / Certifications PHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Bridge Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Bridge Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Bridge Inspection Active Service Bridges, 2/2019 PHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2/2019 PHWA-NHI-130055 – Bridge Inspection PH | Title Dive | e Team Leader | | Years of experience with other employer(s) | 0 | | |
| Active registration number / state / expiration date N/A Year registered N/A Discipline N/A Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2/2019 FHWA-NHI-130055 - Bridge Inspection of In-Service Bridges, 2/2019 FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2/2019 Contract role(s) / brief description of responsibilities Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , "designed drainage", "designed girders", "designed (m/yy-mm/yy) 06/23-06/24 Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , "designed briese in the applicable MPR(s). 06/23-06/24 Con Edison, Hell Gate Wharf Repair and Rehabilitation (TO 2), New York, NY - Team member / dive taam member. He was responsible for performing acoustic imaging using an Acoustic Imaging Device to determine basic dimensions, any infill or scour, and gathering field notes. Mr. Harmon also operated the comms box and diving equipment. 03/20-02/23 For of Port Arthur, Berth 5 Construction Management and Construction Inspection practices, including crack gauging, concrete-sonding field notes. Mr. Harmon also operated the comms box and diving equipment. 01/20-06/21 Moran Towing, Underwater Buikhead Inspecton, Cameron, LA - Team member / dive taam member / dive taam member. He was responsible for performing acoustic Imaging and acoustic Imaging an Acoustic Imaging and Acoustic Imaging Device to determine basic dimensions, any infill or scour, His diving equipment. | Degree(s) / Y | ears / Specialization | | B.S. / 2017 / Mechanical Engineering | | | |
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| Other Pertinent Training / Certifications FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 2/2019 FHWA-NHI-130055 - Bridge Inspection Refresher Training, 9/2023 FAA UAS Remote Pilot (#4390782, issued 5/29/2020) Contract role(s) / brief description of responsibilities Underwater Acoustic Imaging / UAS Pilot Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed (mm/yy-mm/yy) 06/23-06/24 Con Edison, Hell Gate Wharf Repair and Rehabilitation (TO 2), New York, NY - Team member / dive team member. He was responsible for performing acoustic imaging using an Acoustic Imaging Device to determine basic dimensions, any infil or scour, and gathering field notes. Mr. Harmon also operated the comms box and diving equipment. Ord Port Arthur, Berth 5 Construction Management and Construction Inspection, Port Arthur, TX - Team member / diver. He was responsible for performed using commercial SCUBA or SSA equipment, and he operated the comms box and diving equipment. 03/20-02/21 Moran Towing, Underwater Bulkhead Inspection, Cameron, LA - Team member / dive team member / diver. He was responsible for performing acoustic imaging using an Acoustic Imaging Device to determine basic dimensions, any infil or scour, and gathering field notes. Mr. Harmon also operated the comms box and diving equipment. 0/20-06/21 Moran Towing, Underwater Bulkhead Inspection, Cameron, LA - Team member / dive team member. He was responsible for performing acoustic Imaging Using an Acoustic Imaging Device to determine basic dimensions, a | Year register | ed N/A | Discipline | N/A | | | |
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| 10/21-04/22 responsible for performing hydrographic surveys and gathering field notes | | Orange County Econ | mic Development | Cornoration Westnort Marine Holdings Survey Orange TX – Hydrographi | ic survey team member. He was | | |
| | 10/21-04/22 | responsible for perform | ning hvdrographic | surveys and gathering field notes. | e survey team member. He was | | |

| Firm employed by Wiss, Janney, Elstner Associates, Inc. | | | | | |
|---|---|-----------------------|--|----------------------------------|--|
| NameJonathan C. McGormley, PEYears of experience with this employer30 | | | | 30 | |
| Title Principal | | | Years of experience with other employer(s) | 1 | |
| Degree(s) / Years | / Specialization | | M.S. / 1994 / Civil Engineering | | |
| | • | | B.S. / 1992 / Civil Engineering | | |
| Active registration | n number / state / exp | iration date | #PE.0043912 / LA / 03-31-2026 | | |
| Year registered | 2019 | Discipline | Civil Engineering | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FWHA-NHI-130055 – Safety Inspection of In-Service Bridges, 8/2009 | | |
| | | | FHWA-NHI-130053 – Bridge inspection Refresher Training, 10/2019 FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridges | s 11/2013 | |
| | | | ATSSA Louisiana Traffic Control Supervisor (issued 5/13/21: expires 5/13/25) | 5, 11/2015 | |
| | | | ATSSA Traffic Control Technician – Louisiana specific (issued 5/11/21; expire | es 5/11/25) | |
| Contract role(s) / I | brief description of re | esponsibilities | Bridge Inspection Team Leader (satisfies MPR #4) | | |
| Experience dates | Experience and qua | lifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable M | PR(s). | |
| 1/2023-Present | Louisiana DOTD, LA 1 Port Allen Bridge Settlement Remediation, West Baton Rouge, LA - Project manager for NDT, instrumentation, and | | | | |
| 1,2023 1105011 | monitoring, as well as peer review of the ground remediation plan. | | | | |
| | Louisiana DOID, 1-1 Steel weld Assessment, LA - Project manager for the inspection and assessment of welds in 1-1 steel members for multiple bridge structures. Work includes identifying inspection locations, developing access plans for each structure, and developing a work plan. Subsequent task orders | | | | |
| 12/2022-Present | involved removing coatings; performing UT; providing QC/QA by a qualified ASNT Level III or NDE Level II inspector; identifying rejectable indications; | | | | |
| | and resolving critical findings. Structures include LA 47, IWGO (New Orleans); I-20 at Mississippi River (Vicksburg); and US 90 at Atchafalaya | | | | |
| | River (Morgan City). | | | | |
| 12/21-Present | components of this rolli | ing Scherzer lift h | itation, Jonet, IL - Project manager overseeing the renabilitation of structur | ral, mechanical, and electrical | |
| | Louisiana DOTD, I-10 | 0/310 Bonnet Ca | rré Fire Damage Renair. St. Charles Parish. LA - Project manager charged y | with overseeing the emergency | |
| 09/21-02/2022 | inspection and load rat | ing of PPC girder | s, substructures, and bridge deck damaged by fire. Developed a repair scope of | f work and estimated probable | |
| | construction costs. | | | - | |
| | I-40 Hernando Desoto Bridge, Emergency Repairs, Memphis, TN - Project engineer responsible for assisting the contractor with tie girder fracture | | | | |
| 05/21 10/21 | repairs for this Mississippi River bridge which was closed due to a partial section fracture. Developed an emergency instrumentation plan and oversaw the plan's implementation which included the mobilization of personnel and equipment to have a working web accessible system with over 25 concers | | | | |
| 05/21-10/21 | functional in a week. Oversaw the development of UT and PAUT procedures to identify hydrogen cracks at CIP butt welds. Participated in the development | | | | |
| | of measurement and rep | porting procedures | for tensioning and de-tensioning of the temporary shoring system throughout the | e tie girder repairs. | |
| | Louisiana DOTD, Lul | ing Bridge Deck | Overlay Repair Consultation, St. Charles Parish, LA - Project manager resp | onsible for revising the project | |
| 03/21-Present | specifications and provi | iding quality control | ol assistance for the repair of an orthotropic deck overlay system comprising an ep | oxy underlayment with a SFRC | |
| | overlay on the cable-sta | iyea spans. Installe | ed a long-term monitoring system. | | |

| 07/19-Present | Louisiana DOTD, Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA - Project manager responsible for overseeing the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the bridge's long-term functionality and reliability. Oversaw the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Assisted with the development of plans and specifications to address emergency repairs, including the installation of polyester polymer concrete lift span orthotropic deck overlay repairs, replacement of failed pinion bearings, elimination of lift span-to-approach span contact issues, and the improvement of the lift span seating by counterweight movements and air buffer repairs. Continued to monitor the trunnion bearings. |
|-------------------------------|---|
| 05/19-08/19; 08/20-Present | I-255 Jefferson Barracks Bridge over the Mississippi River, Emergency Repairs, Mehlville, MO - Project manager responsible for emergency repairs and subsequent rehabilitation repair design. Following the discovery of a six-foot-long crack in the steel tie girder during a fracture critical inspection, he performed an in-depth inspection of similar details, obtained material samples for laboratory testing, coordinated emergency repairs, oversaw repair installation, and prepared an investigation report. Completed bridge rehabilitation plans for the twin, tied-arch structures and provided construction period services. Project close-out is ongoing. |
| 02/19-Present | Louisiana DOTD, US 90 over Bayou Ramos, St. Mary Parish, LA - Project manager leading the investigation of delayed end cracking of precast, prestressed concrete (PPC) girders. The project includes the evaluation of previously collected monitoring data, development of a detailed finite element model to examine crack initiation and repair options, inspection of existing retrofits, laboratory testing of CFRP repairs, and development of a trial retrofit program. |
| 02/19-07/19 | Lake Shore Drive Bridge over the Chicago River, Girder Fracture Investigation, Chicago, IL - Project manager responsible for leading the investigation, stabilization, and repair installation after the bridge experienced two girder fractures related to corrosion. |
| 10/18-01/19 | Louisiana DOTD, Sunshine Bridge over the Mississippi River, St. James Parish, LA - Project manager responsible for the development and implementation of a monitoring plan to provide information regarding the redistribution of loads during the installation of repairs to the truss bottom compression chord damaged by impact. Responsible for design of the jacking system, review of member repair design, site observations, preparation of shop and jacking procedure drawings, field technical assistance, and chord jacking operations oversight. |
| 10/17-12/17 | Louisiana DOTD, Materials Testing for LADOTD Bridges, Metairie, Port Allen, and Baton Rouge, LA - Project manager for materials testing projects which included the removal of steel samples to determine material strength properties and chemical composition from the Causeway Boulevard Bridge over Earhart Expressway in Metairie and the removal of 45 concrete cores from various bridge substructures from I-10 in Baton Rouge for testing and petrographic evaluation. |
| 03/15-06/17 | IH-345 Inspection, Analysis, and Retrofit Design, Dallas, TX - Project manager for a fracture critical (NSTM) inspection of the 1.6-mile-long steel two- girder structure connecting I-35, I-45, and US 75 with local city streets. Included a visual examination of substructure elements and a visual and exploratory study of the PT deck. Oversaw instrumentation and field load testing for finite element method model calibration and trial retrofit installations. Developed fatigue retrofit contract documents and provided on-site construction observation and technical support throughout construction. |
| 03/14-12/14 | S. Halsted Street over the Little Calumet River, Chicago, IL - Project advisor responsible for performing QA/QC for load ratings and gusset plate rehabilitation design to address live load rating concerns for this steel truss bridge. |
| 09/13-09/13 | Grand Avenue Bascule Bridge, Chicago, IL - Project engineer for gusset plate condition assessment, load ratings, and preliminary retrofit development for members of this double leaf bascule bridge with inadequate live load capacity. |

| Firm employed by | Wiss, Janney, Els | stner Associates | , Inc. | | |
|-----------------------------|---|-----------------------|--|-----------------------------------|--|
| Name Steven L | NameSteven L. Lauer, SE, PEYears of experience with this employer13 | | | | |
| Title Supervis | ing Engineer | | Years of experience with other employer(s) | 0 | |
| Degree(s) / Years | / Specialization | | M.S. / 2010 / Civil Engineering | | |
| | | | B.S. / 2009 / Civil Engineering | | |
| Active registration | n number / state / exp | biration date | PE #062068057 / IL / 11-30-2025 | | |
| | | | PE #081007838 / IL / 11-30-2024 | | |
| Year registered | 2015 (PE) | Discipline | Professional Engineer | | |
| | 2016 (SE) | | Structural Engineer | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 5/2011 | | |
| | | | FHWA-NHI-130055 – Bruge Inspection Refresher Training, 12/2020 FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridge | s 11/2013 | |
| | | | Transportation Worker Identification Credential (TWIC) | 5, 11/2015 | |
| Contract role(s) / | brief description of re | esponsibilities | Bridge Inspection Team Leader (satisfies MPR#4) | | |
| Experience dates | xperience dates Experience and qualifications relevant to the proposed contract: <i>i.e.</i> , "designed drainage", "designed girders", "designed | | | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | | |
| | Gordon Drive Viaduct Carrying IA 12, Sioux City, IA - Project manager for the routine inspection and hands-on arms-length fracture critical (NSTM) | | | | |
| 03/23-07/23 | inspection of the non-redundant steel Pier 18 cross girder and connections. A pin inspection also was performed which included nondestructive ultrasonic | | | | |
| testing of the 70 superstru | | ling Bridge Deck | ed near 10 piers. Overlay Renair Consultation St Charles Parish I.A. Project engineer assis | ting with the development of a | |
| 02/22-Present | long-term monitoring system to evaluate the performance of repairs to the orthotropic deck overlay system comprising an epoxy underlayment with a | | | | |
| | SFRC overlay on the cable-stayed spans. Monitoring is ongoing. | | | | |
| 10/21-12/21 | IN 46 over East Fork White River, Columbus, IN - Team leader for the routine and fracture critical (NSTM) inspection of this cable stayed bridge with | | | | |
| 10/21 12/21 | a center steel pylon and | i post-tensioned de | ck that required the use of traditional and rope-access techniques. | | |
| | IA 9, Black Hawk Bri | dge, over the Mis | sissippi River, Lansing, IA - Project manager and inspection team leader for frac | cture critical (NSTM), in-depth, | |
| 08/21-10/21 | element level, and pin inspection of this three-span through truss river crossing unit, a five-span deck truss unit, and single span multi-girder approach | | | | |
| | 1.204 under St. Charles Road. Barkley, II. Project manager for the evaluation of this steel multi-beam structure that was directly exposed to a vehiculu | | | | |
| 06/21 | fire in order to determ | ine its fitness to re | eturn to service. Performed a limited inspection, field hardness testing, and stee | el core extraction for benchtop | |
| | hardness testing at WJI | E's Northbrook, IL | laboratory, along with unilateral static tensile tests. | Ĩ | |
| 05/21-07/21 | I-40 over the Mississij | opi River, Memph | is, TN - Project engineer who performed instrumentation installation using rope-a | access techniques following the | |
| 05/21-07/21 | fracture of the tie-girde | r in the two-span c | continuous tied arch. | | |
| 01/21-Present | Washington Ave Brid | ge over the Missis | suppl River, Minneapolis, MN - Project engineer responsible for finite element n | nodeling of the bridge structure, | |
| | Toau rating, and the des | ign and instantation | i or an insu unicitation system capable of recording strain, displacement, rotation, | , and temperature. Various scall | |

| | rates recorded structure behavior during daily and long-term thermal cycles and live load events. The double-deck bridge has a pedestrian level, and the vehicular level was retrofitted to include light rail transit by adding trusses between the original girders and now has bearing seat distress. |
|-----------------------------|---|
| 07/20 | Elm Tree Bridge, Walden East Bridge, and Walden West Bridge, Lake Forest, IL - Project engineer who performed inspections of the steel arch, steel girder, and steel deck truss bridges using structure climbing techniques. |
| 10/19-11/21 | Sherman Minton Bridge (I-64) over the Ohio River, New Albany, IN - Project engineer for instrumentation and monitoring and crack arrest hole retrofit installation. Also served as a team leader for fracture critical (NSTM) and routine inspections of truss members using rope-access and structure climbing techniques for this double-decker bridge. |
| 09/19-10/19 | Various Off-System Trusses, OK - Team leader during the performance of fracture critical (NSTM) inspections of 10 off-system trusses of varying styles that required rope access techniques. |
| 07/19-Present | Louisiana DOTD, Danziger Lift Span Bridge (US 90) over the Industrial Canal, New Orleans, LA - Project engineer assisting in the development of a unique monitoring and sensor installation plan, installation of instrumentation and monitoring equipment, and creation of a web-accessible reporting platform to evaluate the bridge's operations over time. The monitoring was designed to assess bridge span lift operations and included laser distance devices, linear potentiometers, strain gages, temperature measurements, ultrasonic distance measurements, and Wi-Fi cameras. |
| 12/19-05/20; 11/18-01/19 | Indianapolis Boulevard over Lake George Canal, East Chicago, IN - Team leader for routine and fracture critical (NSTM) inspections of a two-girder double-leaf bascule bridge with multi-beam approaches. Also served as a load rating engineer for typical vehicles and heavy permit vehicles carrying 180- kip loads. Was the engineer on-site for the largest heavy permit passage and performed pre- and post-passage special inspections. |
| 10/18-01/19 | Louisiana DOTD, Sunshine Bridge over Mississippi River, St. James Parish, LA - Project engineer for the development and implementation of a monitoring plan to provide information on load redistribution during installation of repairs to the truss bottom compression chord damaged by impact. Assisted with jacking system design, review of member repair design, site observations, preparation of shop and jacking procedure drawings, field technical assistance, and chord jacking operations oversight. |
| 08/17-02/19 | Mississippi Complex and Timber Bridge Inspections, Various Counties, MS – Performed inspections of in-service deteriorated timber, steel, and concrete bridges, some requiring rope access. Load rating engineer for more than 200 load ratings. |
| 02/17-12/17 | Joe Page Vertical Lift Span over the Illinois River, Hardin, IL - Project manager responsible for bearing reaction determination via load cells and dynamic strain gage balance testing. |
| 09/19-10/19, 01/17-02/18 | US 20 Julien Dubuque Bridge over the Mississippi River, Dubuque, IA - Project engineer for fracture critical (NSTM), in-depth, and element level inspections using traditional access and structure climbing techniques on this 5,635-foot-long structure. Load rated the three-span truss bridge that received a major rehabilitation to increase the design load from H20 to HS20 and exhibited deterioration. |
| 08/16-08/17 | Michigan Avenue Bascule Bridge over the Chicago River, Chicago, IL - Project manager for balance calculations and dynamic strain gage balance testing of this double deck, quadruple-leaf, bascule truss bridge with single-unit, side-by-side leaf pairs. |

| Firm employed by Wiss, Janney, Elstner Associates, Inc. | | | | | |
|---|--|----------------------|---|-----------------------------------|--|
| Name Curtis J | . Schroeder, PhD, S | E, CWI | Years of experience with this employer | 5 | |
| Title Supervis | ing Engineer | | Years of experience with other employer(s) | 8 | |
| Degree(s) / Years | / Specialization | | PhD / 2018 / Civil Engineering | | |
| | L | | M.S. / 2011 / Civil Engineering | | |
| | | | B.S. / 2009 / Civil Engineering | | |
| Active registration | n number / state / exp | iration date | #081008638 / IL / 11-30-2024 | | |
| Year registered | 2021 | Discipline | Structural Engineering | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | FHWA-NHI-130055 - Safety Inspection of In-Service Bridges, 7/2012 | | |
| | | | FHWA-NHI-130053 – Bridge Inspector Refresher Training, 6/2024 (SNBI) | | |
| | | | FHWA-NHI-130078 - Fracture Critical Inspection Techniques for Steel Bridge | s, 2/2020 | |
| | | | AWS Certified Welding Inspector (#13041031, expires 4/1/2025) | | |
| | | | NDT Ultrasonic Technician - Level II (expires 1/31/2025) | | |
| Contract rola(a) / | briaf decorintion of r | oponoibilition | Pridge Inspection Team Leader / NDT Technician (setisfies M | | |
| Contract Tole(s) / | | | Druge inspection ream Leader / NDT Technician (satisfies M | $(\Gamma N + 4)$ | |
| Experience dates | Experience and qua | ultications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. I | experience dates | s should cover the years of experience specified in the applicable M | PR(s). | |
| 10/23-01/24 | Fall 2023 Pin Inspections, IN - Project manager for this Ultrasonic Testing (UT) project to evaluate the fitness for service of the steel pins and associated hanger components or pinned connections on six bridges. | | | | |
| 03/23-Present | T-1 Steel Weld Inspections on Four Bridges, MO – Responsible for training, testing, and QA for the UT of T-1 steel welds on four bridges. Also included the calibration of paint effects on UT scans and ongoing repairs of rejectable welds. | | | | |
| | I-57 over Mississippi | River, Cairo, IL - | Project manager for UT inspection of weld splices in NSTM truss members fabrication | ricated with ASTM A517 steel. | |
| 01/23-06/24 | Located welds by eddy current testing. Developed alternative UT procedures to inspect welds within the bolted gusset plate connections and performed | | | | |
| | UT inspections. | | | | |
| 12/22-Present | Louisiana DOTD, T-1 | Steel Weld Assess | sment, LA – Responsible for training, testing, and QA during the UT of T-1 steel v | welds on three bridges. Included | |
| 12,22 1100011 | the review of PAUT sc | an results for chara | interritation of rejectable welds; calibration of paint effects on UT scans; and ongo | Sing repairs of rejectable welds. | |
| 11/21-02/22 | Susquehanna River Railroad Bridge, Havre de Grace, MD - Project engineer who assisted with the UT and PAUT inspection of 45 pinned connections of a deck truss railroad bridge with known defect indications. | | | | |
| 09/21-12/21 | Water Street Bridge, | Pittston, PA - Proj | ect engineer for the UT of 10 transfer pins in steel through-truss bridge. | | |
| 08/21-10/21 | Black Hawk Bridge, Lansing, IA - Project engineer responsible for UT and PAUT of 21 pinned connections in a steel through truss and suspended spans. Assisted with fracture critical inspection of steel through-truss spans. | | | | |
| | Hernando de Soto Br | idge, Memphis, T | N - Project engineer for the fracture investigation of a tie girder fabricated usi | ng T-1 steel in one of two tied | |
| 07/21-08/21 | arches. Performed UT, PAUT, and wet fluorescent MT of removed fracture specimen and steel cores. Performed QA verification of PAUT inspection | | | | |
| | procedure. | | | | |

| 05/21-01/22 | SR 66 over 1-64, Carefree, IN - Team leader for the special inspection of this bridge containing 18 planed hinge connections, including visual inspection, UT and magnetic particle testing (MT). Assisted with the development and implementation of repairs for cracked pin plate fillet welds |
|-----------------------------|---|
| 0.4/04.0.5/04 | Hawthorne Bridge. Portland. OR - Project engineer who assisted with UT and wet fluorescent MT inspection of vertical lift bridge trunnions, including |
| 04/21-06/21 | through-bore examinations. |
| | US 136 over Wabash River, Covington, IN - Team leader for the special inspection of a post-tensioned, concrete trapezoidal box girder bridge that |
| 01/21-05/21 | included visual inspection of epoxy-injected cracks in the web wall, ground penetrating radar (GPR) inspection to locate vertical shear reinforcement, and |
| | concrete core removal for testing of concrete strength. |
| 01/21-04/21 | Franklin Street Bridge, Michigan City, IN - Project engineer who assisted with the development of tread casting crack repairs and performance of visual |
| 01/21 01/21 | and MT inspection of field-welded repairs. |
| 10/20-11/20 | Eagle's Nest Bridge, Hebron, ND - Project manager for the repair of cracked pin plates at bridge pinned hinges. Developed a weld repair solution and |
| 10/20 11/20 | performed MT and CWI inspection of welded repairs. |
| 09/20-01/21 | North Dakota DOT Pin and Link Inspections, ND - Project manager for PAUT performed on 344 bridge pins on 17 bridges with both pin and hanger |
| 09/20 01/21 | and pinned hinge connections. |
| 08/20-11/20 | Charles Berry Bridge, Lorain, OH - Project engineer who assisted with the UT inspection of bascule bridge trunnions, including through-bore |
| 00/20 11/20 | examinations. |
| 04/20-06/20 | US 6 over SR 331, Bremen, IN - Team leader for the special inspection of this bridge containing 14 pinned hinge connections, including visual inspection, |
| 01/20 00/20 | UT, and MT. Assisted with the development of repair recommendations for cracked pin plate fillet welds. |
| 05/21-08/21; | Burlington-Bristol Bridge Sheave Inspections, Burlington, NJ - Project engineer who performed PAUT of surface indications on the thrust face of a |
| 09/19-11/19 | vertical lift bridge cast sheave and wet fluorescent MT inspection of cast sheaves. Assisted with the development of repair recommendations. |
| 06/10 00/22 | Cole-Parker Pedestrian Bridge, Fort Wayne, IN - Project engineer who assisted with the UT and PAUT inspection of CJP welds, review of repair design |
| 00/19-09/22 | calculations, load rating, and visual, MT and UT inspection of repairs for this cable stayed bridge. |
| | Jefferson Barracks Bridge, St. Louis, MO - Project engineer for the fracture critical (NSTM) inspection of twin tied-arch bridges over the Mississippi |
| 03/21-08/21; | River. Performed PAUT and MT inspection of tie girder welds during emergency repair work to estimate extent and size of cracking. Performed inspection |
| 05/19-09/19 | of welded repairs as a certified welding inspector (CWI), assisted with follow-up MT inspection of tie girder welds, and reviewed weld repair design for |
| | rehabilitation project. |
| 05/10 08/10 | Delaware River Bridge, Bristol, PA - Project engineer who developed a PAUT inspection plan to locate weld-filled holes in truss members within a |
| 03/19-00/19, 01/17 02/17 | gusset plate connection. Assisted with PAUT technician performance testing. Project engineer responsible for the development of a UT inspection plan to |
| 01/1/-03/1/ | locate weld-filled holes in truss members. Also assisted with the investigation of a bridge member fracture. |



| Firm employed by Wiss, Janney, Elstner Associates, Inc. | | | | | | |
|--|--|---|---|-------------------------------------|--|--|
| Name Robert | D. Gessel, CWI, ASI | NT III | Years of experience with this employer | 37 | | |
| Title Senior T | Technician | | Years of experience with other employer(s) | 9 | | |
| Degree(s) / Years | s / Specialization | | High School Diploma | | | |
| Active registratio | n number / state / exp | oiration date | None | | | |
| Year registered | N/A | Discipline | N/A | | | |
| | | _ | Other Pertinent Training / Certifications | | | |
| | | | FHWA-NHI-130055 – Safety Inspection of In-Service Bridges, 2011 | | | |
| | | | FHWA-NHI-130053 – Bridge Inspection Refresher Training, 3/2014 | | | |
| | | | FHWA-NHI-130078 – Fracture Critical Inspection for Steel Bridges, 4/2014 | | | |
| | | | ASNT NDT Level III Inspector, Magnetic Particle Testing (#4568, expires 11/2 | 2026) | | |
| | | | ASN1 ND1 Level III Inspector, Ultrasonic Testing (#4568, expires 11/2026) | ` | | |
| | | | Birring NDE Center Phased Array Ultrasonic Testing (PAUT), Level II (#2226 AWS Cartified Welding Inspector (#2260071, apping 6/1/2025) |) | | |
| | | | AWS Certified Padiographic Interpreter (#1905001N, expires 5/1/2025) | | | |
| Contract role(s) / | brief description of r | acnoncibilition | NDT Technician (setisfies MDP #7) | | | |
| | | | | • 1 • 5 • 6 1 • • 1 | | |
| Experience dates | Experience and qua | annications relev | vant to the proposed contract; <i>i.e.</i> , designed drainage, designed g | irders, designed | | |
| (mm/yy–mm/yy) | (mm/yy-mm/yy) intersection ² , etc. Experience dates should cover the years of experience specified in the applicable MPR(s). | | | PR(s). | | |
| 03/23-Present | 03/23-Present UT-1 Steel Weld Inspections on Four Bridges, MO – Responsible for qualifying ultrasonic testing (UT) technicians; calibrating for paint; and performance of paint trials. Also performed UT OA and CF. | | | ating for paint; and performance | | |
| 01/23-10/23 | I-57 over Mississippi River, Cairo, IL - Developed alternative UT procedures to inspect welds within the bolted gusset plate connections. | | | | | |
| 12/22 Present | Louisiana DOTD, T- | 1 Steel Weld Asso | essment, LA - Performed UT QC/QA scans; provided QC/QA; and identified | rejectable indications on three | | |
| 12/22-1103011 | bridges: LA 47 over I | WGO (New Orlea | ns); I-20 over Mississippi River (Vicksburg); and US 90 over Atchafalaya Riv | ver (Morgan City). | | |
| 11/21-02/22 | Susquehanna River B selected transfer-pins in | Bridge, Perryville / n this 115-year-old | Havre deGrace, MD – Performed Phased Array Ultrasonic Testing (PAUT) and truss supported structure. | conventional UT evaluation of | | |
| 04/21-06/21 | Indiana DOT, SR 66 | Bridge over I-64, | , Carefree, IN - Lead nondestructive testing (NDT) technician for pinned hing | e joints in the bridge. Included | | |
| 04/21/00/21 | Magnetic Particle Testing (MT), visual examinations of welded pin plates, and UT examinations of transfer pins. | | | | | |
| Hawthorne Bridge Sheave Trunnion Examinati | | | xamination, Portland, OR - Project manager for examinations of sheave trunnic | ons in a vertical lift bridge after | | |
| 04/21-06/21 | cracks in several trunnion journals were reported by others. Assessments were based on wet fluorescent MT and UT examinations, including thru-bore | | | | | |
| | Hood River Bridge Sk | s. 2009 Ve Trunnion Fy | vamination Hood River OR - Lead NDT technician for UT and MT inspections | s associated with the retrofitting | | |
| $03/21_06/21$ of trunnions in this vertical lift bridge. Examinations of sheave trunnions in this vertical | | aminations of sheave trunnions in this vertical lift bridge were undertaken after cra | acks in several trunnion journals | | | |
| 00/21 00/21 | were reported by other | were reported by others. Assessments were based on wet fluorescent MT and UT examinations, including thru-bore scans of critical regions. | | | | |
| 05/19-06/21 | 05/19-06/21 Burlington Bristol Bridge Sheave Examinations, Burlington, NJ, Bristol, PA - Lead NDT technician for MT inspections of the rope track in sheaves | | | | | |
| | of this vertical lift bridge. | | | | | |

| | Whirlpool Rapids Bridge, Niagara Falls, ON - Project manager for the inspection of pinned truss connections using conventional UT and PAUT to |
|--------------|--|
| 05/10 09/10 | investigate ultrasonic indications in select pins. The bridge was constructed in 1897 as a railroad bridge with a lower deck for non-rail trailic. The bridge areas the Niegers Diver between Niegers Delle, New York and Niegers Delle, Opterio, Ning of the transfer ning in side area transfer ning in side area transfer ning in side area transfer ning in side areas the transfer ning in side areas transfer ning in side areas the transfer ning in side areas transfer ning in side a |
| 05/19-08/19 | spans the Magara River between Magara Falls, New York and Magara Falls, Ontario. Nine of the transfer pins in side-span trusses were examined after indications produced in UT exeminations by enother firm exceeded on established threshold of the test procedure. Evolutions of the pine were based on |
| | studies of the ultresonic response and visual inspections of the connections |
| | Studies of the unrasonic response and visual inspections of the connections. |
| 04/10 12/10 | Jenerson barracks bridge over the Mississippi River, Menivine, MO - Following the discovery of a six-loot crack in a steel the grider, performed MT |
| 04/19-12/19 | and 01 to define the length and deput of cracks. Oversaw field weighing during the emergency repairs. The main span is a ned-arch structure with steer box |
| | I alch and 12-1001 deep steel 1-shaped de glider. |
| 02/10 07/10 | Lake Shore Drive Drive Drive Drive Drive over the Chicago River, Chicago, IL - Lead NDT technician for a grider fracture investigation that included stabilization and |
| 02/19-07/19 | repair instantion after the southeast corner of the bruge deck dropped approximately / inclusive stress resulting in closure of the bruge. Led the conection of ultrasonic thickness measurements for similar girder ands to determine remaining cross sections. |
| | util asonic unckness measurements for similar gruder ends to determine remaining cross sections. |
| 11/17-06/18 | 1-20 Valley Street Bridge, Jackson, MS - CWI responsible for weld repair inspection and NDT during the fatigue repairs of curved parallel structures. |
| 11/15 00/10 | The eastbound structure consists of 17 spans for a total length of 1,110 feet and the westbound structure contains 20 spans for a total length of 1,285 feet. |
| 11/17-09/18; | WMATA Aerial Structures. Falls Church. VA - Lead NDT technician for UT examinations of anchor rods and MT inspections of in-service welds. |
| 11/21-02/22 | |
| 10/17-12/17 | Louisiana DOTD, Materials Testing for LADOTD Bridges, Metairie, LA - Technician responsible for the removal of steel samples from the Causeway |
| 10,1, 12,1, | Boulevard Bridge over Earhart Expressway in Metairie, LA, to determine material strength properties and chemical composition. |
| | Complex and Timber Bridges, MS - Bridge inspection team leader responsible for multiple fracture critical (NSTM) bridge inspections and report |
| 08/17-12/18 | preparations. The structures included multi-girder steel bridges with steel, concrete, or timber decks; multi-girder precast concrete with concrete decks; |
| | concrete slab bridges; and complex steel structures including pony trusses, steel girder and floor beam, and railroad flat car bridges. |
| | I-64 Sherman Minton Bridge over the Ohio River, New Albany, IN - Bridge inspector for a fracture critical (NSTM) inspection of this tied arch truss |
| 05/17-10/17 | bridge and approach span trusses. The truss spans have a total bridge length of 2,053 feet and support a double-deck roadway. The work was typically |
| | performed during non-peak hours to minimize the disruption to traffic. A comprehensive deck assessment was also included as part of the inspection work. |
| 03/17-12/17 | Iowa 136 Bridges over the Mississippi River, Clinton, IA - Bridge inspector for routine, in-depth, element-level, fracture critical (NSTM), and UT of |
| 00/11/12/11 | pins for the three truss spans and approach spans. |
| | Burlington Bristol Bridge Trunnion Examination and Retrofit, Burlington, NJ, Bristol, PA - Lead NDT technician during UT and MT inspections |
| 11/14-01/18 | for the retrofitting of trunnions in a vertical lift bridge. Grinding and polishing operations completed within the fillet region of eight trunnion journals for |
| | the bridge eliminated all trunnion cracks, as well as many potential stress risers. |

| Firm emp | ployed by | Wiss, Janney, Els | stner Associates | Inc. | | |
|------------|--|--|---|--|---|--|
| Name | John R. V | Williams, PE | | Years of experience with this employer | 5 | |
| Title | Principal | | | Years of experience with other employer(s) | 23 | |
| Degree(s) |) / Years , | / Specialization | | B.S. / 1996 / Engineering Science | | |
| Active re | gistration | number / state / exp | iration date | #PE.0044300 / LA / 09-30-2024 | | |
| Year regi | istered | 2020 | Discipline | Mechanical Engineering | | |
| Contract | role(s) / t | orief description of re | esponsibilities | Movable Bridge Mechanical Inspection / Mechanical System I | Rehabilitation Design | |
| Experience | ce dates | Experience and qua | difications relev | ant to the proposed contract; i.e., "designed drainage", "designed g | girders", "designed | |
| (mm/yy– | -mm/yy) | intersection", etc. E | Experience dates | should cover the years of experience specified in the applicable M | IPR(s). | |
| 07/19-0 | Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA - Senior mechanical engineer during the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery systems, and development of repairs to restore the bridge's long-term functionality and reliability. Assisted with the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Led the development of plans and specifications to address emergency failed pinion bearing repairs. Performed strain gage testing to measure spar balance, implemented weight changes and air buffer repairs to improve seating of the span, and determined through testing that the span drive differentials on both towers were not functioning properly which required working with the measure to properly adjust the associated alutebes. | | | | | |
| 07/20- | -1/20 | St. Claude Avenue Bridge Construction Engineering Services, New Orleans, LA - Project manager and senior mechanical engineer for construction engineering services on an expedited basis to assist with replacement of the second link pins which connect the counterweight truss to the balance link. Services included balance testing, design of the counterweight support system, development of a sequence of work for supporting the structure, unloading and removing the pins, completing the repairs and restoring the bridge to service within a marine navigation closure that was controlled by repairs to the adjacent lock. Mechanical engineering services were provided on an expedited basis due to the short time-period between the award of the project and the start of the marine navigation closure. | | | | |
| 10/14-0 | 07/19 | St. Peters Canal Swing Bridge Replacement, Cape Breton, NS, Canada - Project manager and engineer-of-record overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center bearing swing bridge. Responsibilities included design and backchecking of design calculations, plan preparation and detailing, and preparation of contract specifications and construction cost estimates during design. Responsibilities during construction included coordinating a team of mechanical and electrical engineers and inspectors to review and approve construction submittals and provide complete shop and field inspection of all mechanical/electrical aspects of the rehabilitation project. | | | | |
| 08/08-0 | 08/18 | Columbus Road Lift Bridge, Cleveland, OH - Senior mechanical engineer for this rehabilitation project with the objective to maintain the historic character of the structure while significantly reducing maintenance requirements and improving overall system efficiency. A scoping inspection of the mechanical machinery determined suitability for continued long-term service and compliance with current AASHTO code requirements. The new mechanical design provided for the complete replacement of all span support machinery, span drive machinery, and span locks. | | | | |
| 07/14-0 | 02/18 | Burlington Canal Lift a major electrical and the electrical power an work included replacer the contractor's engine | Bridge, Hamilton ninor mechanical i d control systems f nent of the high-sp er to sign and seal a | a, ON, Canada - Movable bridge construction specialist/heavy machinery special ehabilitation of this critical vertical lift bridge. The electrical scope of work income for the bridge, including an aerial cable installation and skew control of the lift eed end of the span drive machinery (brakes, speed reducer, shaft, and coupling all submittals including shop drawings. | alist for the contractor as part of cluded complete replacement of span. The mechanical scope of gs). The scope of work required | |

| | Sir Ambrose Shea Lift Bridge Replacement, Placentia, NL, Canada - Project manager and mechanical engineer-of-record responsible for the design |
|-------------|--|
| | of span drive machinery, span lock machinery and span support machinery for a new tower drive lift bridge. Duties included preparation and review of all |
| | relevant calculations (sized motor, gear tooth strength calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed |
| 03/10-11/17 | machinery base plates, sized span lock bars, sized span lock and lockbar actuator, performed fatigue analysis of trunnion shaft, and sized trunnion bearings), |
| | and preparation of design drawings, specifications, and cost estimates as part of design. During construction, his responsibilities included a review of the |
| | contractor's shop drawings and procedures for conformance to contract requirements, disposition of non-conformance reports, and responding to requests |
| | for information or changes. |
| | FDOT District 4 and District 5, Asset Management Bridge Inspections - Project manager and senior mechanical engineer for the mechanical inspections |
| | of 37 movable bridges in District 4 and 12 movable bridges in District 5 as part of the asset management program. Mechanical inspections of the movable |
| 04/03-6/17 | spans are done annually and include a thorough visual inspection, measurements and calculation of gear wear and remaining tooth thickness, bearing |
| | clearance and alignment measurements, span lock clearance and alignment measurements, condition rating of all mechanical machinery and Pontis-style |
| | reporting. The firm was also on call for emergency inspections, post rehabilitation inspections, post repair inspections and miscellaneous design services. |
| | Mystic Bridge Rehabilitation, Connecticut DOT, Groton, CT - Project manager and senior mechanical engineer for a rehabilitation of this historic |
| | single leaf, mechanically operated Brown bascule bridge. The mechanical design included upgrades to the capacity of the span drive machinery and design |
| 02/04-11/13 | of a custom vehicular safety barrier gate to rise out of the roadway to protect errant vehicles from entering the waterway with the bridge raised yet remain |
| | visually unobtrusive with the bridge seated and open to vehicular traffic. Responsibilities included design and backchecking of design calculations, plans |
| | preparation and detailing, and preparation of contract specifications and construction cost estimates. |

| Firm employed by | Firm employed by Wiss, Janney, Elstner Associates, Inc. | | | | |
|----------------------|--|---|--|---|--|
| Name Ralph G | iernacky, P.E. | | Years of experience with this employer | 5 | |
| Title Associate | e Principal | | Years of experience with other employer(s) | 23 | |
| Degree(s) / Years | / Specialization | | B.S. / 2002 / Engineering Science w/ Engineering Mechanics Mino | r | |
| Active registration | number / state / expi | iration date | #PE074885 / PA / 09-30-2025 | | |
| Year registered | 2007 | Discipline | Professional Engineer | | |
| Contract role(s) / b | prief description of re | sponsibilities | Movable Bridge Mechanical Inspection / Mechanical System R | ehabilitation Design | |
| Experience dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | rders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | should cover the years of experience specified in the applicable MF | PR(s). | |
| 04/03-6/17 | Asset Malagement inspections, Fibrida Department of Transportation (FDOT) - Served as lead mechanical inspection for a number of consecutive contracts for the annual inspection of movable bridges in several Florida districts. Mr. Giernacky's responsibility included the hands-on inspection of all mechanical components including trunnions, trunnion bearings, live load supports, gears, bearings, couplings, brakes, speed reducers, span and tail lock systems, hydraulic cylinders, hydraulic motors, hydraulic power units (HPU's), traffic control machinery and all machinery supports and connections as applicable, condition rating of all mechanical machinery and preparation of a report that is inputted into the PONTIS report database. Separate contracts with various districts across the state that included: FDOT District 4: Mechanical inspections of thirty-seven movable bridges conducted annually over two-year cycle for fourteen years (two consecutive contracts) FDOT District 5: Mechanical inspections of eight movable bridges conducted annually over two-year cycle for fourteen years FDOT District 1: Mechanical inspections of twenty-three movable bridges; conducted annually over a two-year cycle FDOT District 6: Mechanical inspections of twelve movable bridges; conducted annually over a two-year cycle | | | | |
| 1/19–Present | NYSDOT Systemwide Movable Bridge Inspections – Project manager and lead mechanical engineer providing inspection of the mechanical, hydraulic, and electrical equipment associated with the operation of 35 movable bridges across New York state. As part of the inspection work, WJE instruments the span drive operating machinery as physically permissible to record the operational loading for multiple test operations to evaluate the operational loads and span balance analysis. The analysis results and inspection findings are compiled into a comprehensive report providing a description of each system; condition assessment of the mechanical, hydraulic, electrical, and traffic control components; and recommended corrective actions. Priority findings are identified and addressed as needed. | | | | |
| 9/16-10/17 | Hood River Lift Bridge, Port of Hood River, OR - Mechanical engineer responsible for performing an internal inspection of the trunnion bearings, span drive shaft bearings, and span drive enclosed speed reducers to address operational issues. Included the performance of balance testing to determine the balance condition and operating loads of the span drive machinery. | | | | |
| 04/15-Present | Wasauksing Swing Bri this historic rim bearing a single hydraulic powe damage was overloading A subsequent rehabilitat limiting function within mechanical and electric | idge, Parry Sound swing bridge. The r unit. The scoping from the existing tion project was con allowable levels of al systems to ensure | I, ON, Canada - Project manager and lead mechanical inspector for the scoping is swing bridge has mechanical span drive machinery and end wedge machinery dry inspection identified degraded span drive and end wedge machinery and determ hydraulic system. An analysis of the span drive machinery was performed versus C impleted to restore the integrity of the damaged components and upgrade the hydra of torque. Following the rehabilitation project, Mr. Giernacky continues to manage continued reliable operation of original components. | nspection and rehabilitation of iven by hydraulic motors from ned that the root cause of the CAN/CSA S6-14 requirements. aulic circuit to provide a torque ge the annual inspection of the | |

| | Fort Street Bascule Bridge, Detroit, MI - Lead field mechanical engineer responsible for directing a contractor led alignment of the span drive machinery |
|---------------|--|
| 09/15 - 7/17 | to achieve acceptable alignment for this new rolling lift bascule bridge. Additionally, Mr. Giernacky provided strain gage testing services to measure the |
| | balance condition and direct weight changes at the completion of construction to achieve an acceptable final imbalance condition. |
| | Metro North Harlem River Vertical Lift Bridge, New York, NY - Responsible for balance testing, balance calculations, main counterweight rope |
| 04/13-07/15 | tension measurements and directing weight changes and rope tension adjustments as part of a counterweight wire rope and electrical control system |
| | replacement project for this twin tower drive vertical lift bridge. |
| | Sir Ambrose Shea Lift Bridge Replacement, Placentia, NL, Canada - Project engineer who assisted with coordination for the design of span drive |
| | machinery, span lock machinery and span support machinery for a new tower drive lift bridge. Duties included preparation and review of all relevant |
| | calculations (sized motor, gear tooth strength calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed machinery |
| 03/10 - 11/17 | base plates, sized span lock bars, sized span lock and lockbar actuator, performed fatigue analysis of trunnion shaft, and sized trunnion bearings), and |
| | preparation of design drawings, specifications, and cost estimates as part of design. During construction, his responsibilities included a review of |
| | contractor's shop drawings and procedures for conformance to contract requirements, disposition of non-conformance reports, and responding to requests |
| | for information or changes. |

| Firm employed by Wiss, Janney, Elstner Associates, Inc. | | | | | |
|---|---|--|----------------------------------|--|--|
| Name Gareth | Rees, PE | Years of experience with this employer | 5 | | |
| Title Principal | 1 | Years of experience with other employer(s) | 51 | | |
| Degree(s) / Years | / Specialization | College Associateship Electrical Engineering (BSc electrical equiv | valent) / 1968 / | | |
| | | Polytechnic of Wales (now University of South Wales) | · | | |
| Active registration | n number / state / expiration date | #PE.0040754 / LA / 09-30-2024 | | | |
| Year registered | 2016 Discipline | Electrical and Computer Engineering | | | |
| Contract role(s) / | brief description of responsibilities | Movable Bridge Electrical Inspection / Electrical System Reha | bilitation Design | | |
| Experience dates | Experience and qualifications rele | evant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. Experience dat | es should cover the years of experience specified in the applicable M | PR(s). | | |
| | Danziger Lift Bridge, New Orleans, I | A - Lead electrical engineer for the inspection of relevant portions of the main life | ft span contributing to reported | | |
| | operational issues, an in-depth inspect | ion of the lift bridge machinery and electrical systems, and development of re | pairs to restore the long-term | | |
| 07/19-Present | the bridge Developed electrical control | e. Prepared a new lift span skew control system design after the existing Selsyn constraints and the span drive differentials and the span drive difference differentials and the span drive difference differenc | provided recommendations for | | |
| | rehabilitation of the bridge. | s for transverse skew eminination enteres with the span drive differentials, and | provided recommendations for | | |
| 08/15 Present | 3rd Street Bascule Bridge over Islais | Creek, San Francisco, CA - Senior electrical engineer for the design of a replac | ement bridge that included the | | |
| 00/13-Flesellt | design of new electrical power and contr | design of new electrical power and control systems to be integrated with the MUNI light rail traction power and signal system. | | | |
| | Skew Detection System Study for Vertical Lift Bridges, LA - Principal investigator to review alternatives for skew control, monitoring, and indication | | | | |
| | for tower drive vertical lift bridges based on effective management of skew and minimizing advanced electronic equipment. The study included a literature review interviews with industry control specialists experienced in skew control | | | | |
| 03/20-12/20 | systems. As a result of the study, a preferred system of skew control that combines the use of direct skew measurement with an inclinometer and lasers for | | | | |
| | skew monitoring and trip indication, and indirect measurement of skew using encoders for controlling skew during operation was recommended. To | | | | |
| | minimize maintenance, mean-time-to-repair, and to limit dependency on PLC systems, it was recommended that control integration be achieved using | | | | |
| | SMART relays (that contain self-diagnostics) and that may easily be replaced in the event of an issue. | | | | |
| | Charles Berry (Erie Ave), Lorain 6 I | Bascule Bridge Rehabilitation, Lorain, OH - Movable bridge project coordinat | or for the rehabilitation of the | | |
| | power and controls control systems. Services included review, coordination and integration of the mechanical electrical and structural systems, review of | | | | |
| 03/18-02/20 | all shop drawings for fit-up and constructability; shop inspection of critical components; field oversight during construction for critical assemblies: | | | | |
| | verification of final alignment of machinery; shop and field acceptance testing of the electrical system installation, commissioning of the installed operating | | | | |
| | systems, strain gage operational testing and power recordings to confirm satisfactory performance of the newly installed systems, and development of the | | | | |
| | Operations and Maintenance Manual. | | | | |
| | Fort Madison Toll Bridge, Fort Madi | son, IA – Engineer-of-record and project manager for the rehabilitation of this do | uble decker swing span bridge. | | |
| | The design of the submarine cable insta | lation included surveying of the existing submarine cable routing of the new cable | e and designing and specifying | | |
| 04/13-10/19 | the cable. The work also included exc | avation requirements and developing an approved trenching system. The design | and contract documents were | | |
| | developed based on staged construction | to satisfy marine, railroad, and highway operations as well as Coast Guard and eme | ergency services with respect to | | |
| | bridge operating outages. Construction s | ervices were also performed. | - | | |

| 03/10-11/17 | Sir Ambrose Shea Lift Bridge, Placentia, NL, Canada – Engineer-of-record for the design of a replacement tower drive vertical lift bridge with two duty motors and brakes in each tower and two sets of span locks. The bridge operator's control house is located at roadway level and remote from the bridge with CCTV surveillance and fiber optic communications to the towers. The PCL-based control system was designed with Hot standby redundant PLC's, a human machine interface (HMI), and control console and a redundant fiber optic communications transmission backbone. The electric services are distributed to state-of-the-art intelligent MCC's in each of the bridge towers and have internal communications capabilities and interface directly with the bridge control system PLC for bridge operation, drive monitoring, and data acquisition. |
|-------------|--|
| 06/14-06/16 | East Roundbunch Road over Cow Bayou, Orange County, TX - Lead electrical engineer responsible for designing new drives, controls, and field devices for the span drive machinery and the end wedge machinery as part of a rehabilitation of this historic structure to provide long-term reliable service. Span drive machinery was comprised of components with a proven history of utilization on movable bridges and was powered by an electric motor. Design and integration of new traffic control features, bridge and maintenance lighting, and a CCTV system were also included. |
| 01/14-12/14 | Haystack Bascule Bridge over Petaluma River, Petaluma, CA – Engineer-of-record and lead electrical engineer for the relocation, rehabilitation, and reassembly of a single leaf rolling lift bascule railroad bridge. The designed bridge electrical systems consist of modern PLC logic control and flux vector variable frequency drives. The electric service and standby generator for bridge back-up power are located on one side of the navigable channel with the bridge operating system on the other. An under-channel installation was developed to connect the electric service equipment and associated communications to the bridge operating system. The system design included communications, fire life safety system design as well as the integration of the bridge operating system with the railroad train control. |
| 10/10-02/12 | Port Severn Swing Bridge 60 Rehabilitation, Port Severn, ON, Canada - Lead electrical engineer for a bridge inspection, condition survey, engineering analysis and preparation of plans, specifications, and cost estimate. |

| Firm employed by | Wiss, Janney, Els | tner Associates | Inc. | | |
|----------------------|---|--------------------------------------|---|--|--|
| Name Lin Xu, l | Р.Е. | | Years of experience with this employer | 5 | |
| Title Senior As | ssociate | | Years of experience with other employer(s) | 8 | |
| Degree(s) / Years | / Specialization | | B.S. / 2011 / Electrical and Computer Engineering | | |
| Active registration | number / state / exp | iration date | #PE095030 / PA / 09-30-2025 | | |
| Year registered | 2023 | Discipline | Professional Engineer | | |
| Contract role(s) / b | orief description of re | sponsibilities | Movable Bridge Electrical Inspection / Electrical System Reha | abilitation Design | |
| Experience dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | girders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | should cover the years of experience specified in the applicable M | PR(s). | |
| 08/16-05/17 | O'Rorke Bridge, Roc inspected and electrical during bridge operation | hester, NY - Elec measurements we | trical engineer who participated in a Biennial Bridge Inspection where the ere completed to document the condition of fundamental components and electric | lectrical systems were visually ical loading of the drive system | |
| 09/19-02/20 | 09/19-02/20 Movable Bridge Inspections, Monmouth County, NJ - Lead electrical engineer who performed electrical inspections of four bascule bridges inclu the Oceanic Double Leaf Bascule (Type I), Shrewsbury River Double Leaf Bascule (Type III-S), Shark River Double Leaf Bascule (Type I), and Glim Glass Single Leaf Bascule (Type III-S). Type III-S inspections focused on the traffic control equipment installed to assure safety, reliability, and longe of the bridge traffic safety system while Type I Inspections included an in-depth inspection of the bridge's electrical equipment, the witnessing of sequ of operation, measurements, and recordings of electrical operating parameters and electrical characteristics of the installed equipment. Also perform | | | | |
| 09/23-05/24 | 3-05/24 Lamèque-Shippagan Span Drive Vertical Lift Bridge, Shippagan, NB, Canada - Project engineer who performed an electrical inspection to determin the status of the bridge in terms of safety, reliability, and longevity of the bridge's electrical systems. Included electric utility service, standby generated main power distribution panel, distribution transformers, automatic transfer switch, power distribution panelboard, bridge control system, mot | | | | |
| 05/21-07/21 | MD 436 (Ridgely Ave) Over Weems Creek Swing Bridge, Hunt Valley, MD - Project engineer who performed an electrical evaluation that involved visual inspection and operational testing of the electrical and control system equipment and components. Operating voltages and currents were measured for the traffic warning gates and traffic barrier gates. Operating voltage, current and power measurements were also taken for the span drive hydraulic power unit motors and the overall bridge loads while operating on utility power. Operating voltage, current and power measurements were taken using a Fluke 1735 Power Logger. A separate insulation resistance test for various motors were taken with a Megger MIT330 | | | | |
| 11/20-04/21 | Cherry Street Bascule Bridge over Ship Channel, Toronto, ON, Canada – Performed an electrical inspection of the bridge to assess the overall condition of the electrical systems, their present adherence to current codes, their reliability, and estimated life expectancy. The assignment included an in-dep inspection of all electrical equipment including power distribution, feeders, motors, and actuators; marine and highway traffic control; and fire life safe systems. Provided static testing and operational testing of electrical equipment to determine code compliance and its ability to operate the bridge safe and in its correct sequence. | | | | |
| 07/20-01/21 | Passyunk Avenue Brid | dge, Philadelphia | PA – Performed a visual inspection of the existing electrical power and control ting of on-site equipment | ol systems for this twin double- | |
| 12/21-04/22 | Burlington Canal Vertical Lift Bridge, Burlington, ON, Canada – Completed a comprehensive detailed inspection of the bridge's electrical systems 22 post-rehabilitation. The bridge rehabilitation included replacement of a major part of the electrical power and control system, the bridge's aerial cable installation, and machinery modifications. | | | | |

| 11/20-02/21 | Beaver Dam Road Bascule Bridge (CR 630), Ocean County, NJ - Electrical engineer responsible for performing a Type I electrical inspection of the electrical systems for this double leaf bascule bridge, along with the compilation of a report to document his inspection findings. Performed bridge safety |
|---------------|--|
| | interlock testing during the inspection. |
| | Norfolk Southern Railroad System-Wide Movable Bridge Inspections - AL, LA, and NC – Performed initial inspections and evaluations followed by |
| 02/12-Present | subsequent annual inspections that included electrical inspections, insulation resistance testing, drive and motor load testing, and verification of operation |
| | sequence. |
| | Franklin Street Bascule Bridge over Trail Creek, Michigan City, IN - Completed a condition assessment to assess the physical and operating condition |
| 02/20-02/21 | of the electrical service, power distribution system, bridge control system, traffic control system, navigation lighting system, and general electrical system |
| | required for safe and reliable operation. |
| | Cape May County Bridge Commission Bridge Inspections, Cape May, NJ – Completed a detailed electrical inspection of four bascule single leaf |
| 02/22-06/22 | bridges (Grassy Sound, Middle Thorofare, Townsend's Inlet, and Corson's Inlet). |



| Firm employed by | y KTA-Tator, Inc. | | | | |
|-----------------------|--|-----------------------|---|---------------------------------------|--|
| Name Robert Lanterman | | | Years of experience with this employer | 22 | |
| Title Supervis | or-Other (Senior Coa | tings Consultan | t) Years of experience with other employer(s) | 6 | |
| Degree(s) / Years | / Specialization | | B.E. / 1999 / Chemical Engineering | | |
| Active registration | n number / state / exp | iration date | None | | |
| Year registered | N/A | Discipline | N/A | | |
| | | | Other Pertinent Training / Certifications | | |
| | | | NACE Certified Coatings Inspector (#13505; expiration 5/23/2025) SSPC Certified Protective Coatings Specialist (#2015 820 136; expiration 12/3 | 1/2027) | |
| | | | Valid TWIC Card (expiration 10/26/2025) | 1/2027) | |
| Contract role(s) / | brief description of re | esponsibilities | Coatings Assessment (satisfies MPR #6) | | |
| Experience dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | should cover the years of experience specified in the applicable M | PR(s). | |
| | Louisiana Departmen | t of Transportation | n and Development, US 190 Krotz Springs Bridges (eastbound and westbou | und), St. Landry Parish, LA - | |
| 03/24-04/24 | ⁴ Performed document review and coating condition assessment services. He prepared a report detailing the findings of the assessment and provide recommendations for the maintenance of the coating system on this bridge. | | | | |
| | South East Philadelph | ia Transportation | Authority (SEPTA), Market Street Frankford Elevated Viaduct, Philadelph | nia, PA - Evaluated the existing | |
| 03/22-03/22 | coating condition (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement) on the | | | | |
| 03/22 03/22 | eastern end of the viaduct and provided recommendations on appropriate maintenance strategies, opinions of probable construction cost, and modification of the existing SEPTA surface preparation and coating application specifications for use in bidding the work to prospective contractors | | | | |
| | Louisiana Departmen | t of Transportation | n and Development, LA 47 IWGO Bridge, Orleans Parish, LA - Performed | a coating condition assessment | |
| 09/21-12/21 | and assisted with the dev | velopment of surfa | e preparation, coating application, and environmental/worker protection and cont | ainment specifications/drawing | |
| | notes for the rehabilitat | ion of this tied arcl | bridge. KTA was a subconsultant to TRC Engineers. | | |
| | Cuyahoga County (OI | H) Department of | Public Works, Denison Harvard Bridge, Cleveland, OH - Provided coating co | ndition assessment supervision | |
| 07/20-08/20 | for coatings laboratory | testing, developm | int of a maintenance painting strategy and recommendations, and development of | of an opinion of probable costs | |
| | Louisiana Departmen | t of Transportatio | n and Development, Jackson Street (Red River) Lift Bridge, Alexandria, L | A - Provided coating condition | |
| 02/20-05/20 | 02/20-05/20 assessment services, supervision of coatings laboratory testing, and report preparation for rehabilitation of the coating system on this movable br | | | | |
| | structure. | | | | |
| 02/18 06/10 | Delaware River Port Authority, Walt Whitman Bridge, Gloucester, NJ - Provided coating consulting and project engineering services for a coating condition assessment of the NL approach group of this major steel crossing of the Delaware River He performed a coating condition assessment of the NL approach group of this major steel crossing of the Delaware River He performed a coating condition assessment of the NL approach group of this major steel crossing of the Delaware River He performed a coating condition assessment of the NL approach group of the results of the Delaware River He performed a coating condition assessment of the River Rive | | | | |
| 02/10-00/17 | spans to develop future maintenance painting strategies. | | | | |
| | Louisiana Departmen | t of Transportation | n and Development, US 90 Morgan City Bridge and Nearby Structures, M | organ City, LA - Performed a | |
| 03/17-05/17 | 03/17-05/17 coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for rehabilitation of the coating sys | | | bilitation of the coating system | |
| | on these structures. | | | | |



| 02/17-03/17 | Louisiana Department of Transportation and Development, I-310 Luling Bridge in Luling, LA - Performed a condition assessment of the weathering steel tower and girders. He subsequently prepared a report detailing the conditions found and offering recommendations for remediation of the corrosion problems on this bridge. |
|-------------|---|
| 10/18-03/19 | Kootenay River Bridge, Creston, BC, Canada - Performed a coating condition assessment (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement), supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. |
| 09/18-12/18 | Argentia Newfoundland Ferry Dock Transfer Bridge, Newfoundland, Canada – Performed a coating condition assessment, supervised coatings laboratory testing, and developed recommendations for future maintenance painting of the structural steel end span of this bridge. |
| 09/16-12/16 | South Street Viaduct, New York City (Manhattan), NY – Performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. |
| 03/13-11/17 | Commodore Barry Bridge, Chester, PA – Provided project engineering/coating consulting services for KTA on this project involving a coating condition assessment of this bridge and associated structures (Ramp AC, Ramp BC, SR130 Overpass, and the Maintenance Building Elevated Water Tank) to determine the condition of the existing coatings on the structures along with providing the DRPA with appropriate coating recommendations. KTA also provided specification review (paint and environmental) and EH&S services (sensitive receptor survey and development of an air monitoring plan with monitor location recommendations) for all structures. |



| Firm en | nployed by | KTA-Tator, Inc. | | | | | |
|-------------|---|--|---|--------------|---|-------------------------------------|--|
| Name | Jayson I | Helsel, PE | | | Years of experience with this employer | 25 | |
| Title | Supervise | or-Other (Senior Coa | tings Consultant |) | Years of experience with other employer(s) | 11 | |
| Degree(| (s) / Years | / Specialization | | M.S. | / 1992 / Chemical Engineering | | |
| | | | | B.S. | / 1988 / Applied Science | | |
| Active 1 | registratior | n number / state / exp | iration date | #PE. | .0030090 / LA / 09-30-2024 | | |
| Year reg | gistered | 2002 | Discipline | Cher | mical Engineering | | |
| | | | | Othe | r Pertinent Training / Certifications | | |
| | | | | NACI SSPC | E Certified Coatings Inspector Level 3 (#7356; expiration 03/31/2025) | 1/2027) | |
| Contrac | t role(s) / 1 | orief description of re | esponsibilities | Coat | tings Assessment (satisfies MPR #6) | (/2027) | |
| Experie | nce dates | Experience and qua | lifications releva | ant to | the proposed contract: <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | |
| (mm/vv | /-mm/vv) | intersection", etc. E | Experience dates | shou | ld cover the years of experience specified in the applicable M | PR(s). | |
| | | Pennsylvania Departr | nent of Transporta | ation, | District 11-0, Shades Run Bridge No. 3, Penn Hills (Allegheny Coun | ty), PA - Performed a coating | |
| 04/21 | 1-06/21 | condition assessment (percentage and distribution of corrosion, coating thickness and adhesion, substrate condition, coating sample removal for laboratory | | | | | |
| • = - | | testing, and photographic documentation). He prepared and submitted a report that discussed the results of the assessment and provided recommendations for repair/replacement of the existing coating system | | | | | |
| | | Alleghenv County, Tu | rtle Creek (Patton) | Stree | t) Bridge No. 3, Wilmerding, PA - Performed a coating condition assessme | ent (percentage and distribution | |
| 11/20 | 0-06/21 | of corrosion, coating thickness and adhesion, substrate condition, coating sample removal for laboratory testing, and photographic documentation). He | | | | | |
| 11/20 | 0-00/21 | prepared and submitted | d a report that discussed the results of the assessment and provided recommendations for repair/replacement of the existing coating | | | | |
| | | system. Pennsylvania Turnnik | e Commission Str | netur | re A051 76 over Norfolk Southern Railroad and Structure A051 82 ov | er Chestnut Street, Emmaus | |
| | | PA - Performed coatin | g condition assessn | nents | (percentage and distribution of corrosion, coating thickness and adhesio | n, substrate condition, coating | |
| 03/19 | 9-06/19 | sample removal for laboratory testing, and photographic documentation) on two bridges along with turnpike mainline in Emmaus, PA. He prepared and | | | | | |
| | | submitted a report that discussed the results of the assessments and provided recommendations for repair/replacement of the existing coating system on both bridges | | | | | |
| | | Port Authority of New York and New Jersey, Outerbridge Crossing, Staten Island, NY - Performed a coating condition assessment (percentage and | | | | | |
| 07/16-11/16 | | distribution of corrosion, coating thickness and adhesion, substrate condition, coating sample removal for laboratory testing, and photographic | | | | | |
| | | documentation) on this cantilever bridge that spans the Arthur Kill between Perth Amboy, New Jersey, and Staten Island, New York. He prepared and | | | | | |
| | submitted a report that discussed the results of the assessment and provided recommendations for repair/replacement of the existing coating system. | | | | | | |
| | | South Eastern Philad | dition assessments (| tion A | Authority (SEPTA), Cobbs Creek, Darby Creek, and Ridley Creek | Viaducts, Philadelphia, PA - | |
| 02/14 | 4-10/14 | removal for laboratory | testing, and photogr | aphic | documentation) on three viaduct structures in Philadelphia, PA. He prepa | and submitted a report that | |
| | | discussed the results of | the assessments and | l prov | ided recommendations for repair/replacement of the existing coating syste | m on these viaducts. | |



| Name James Kertzler, CWI, ASNT 3 Years of experience with this employer 11 Title Supervisor-Other (ASNT Level III) Years of experience with this employer. 14 Degree(s)./ Years / Specialization High School Diploma / 1990 / General Studies Active registration number / state / expiration date N/A Years of experience with this employer If this specialization N/A Years of experience with this employer If this specialization N/A Years of experience with this employer N/A N/A Years of experience with this employer N/A N/A Years of experience with this employer N/A Years of experience with this employer N/A Years of experience with this employer N/A Years of experience with this employer N/A Years of experience with this employer N/A Years of experience with this employer N/A Years | Firm empl | Firm employed by KTA-Tator, Inc. | | | | | | | | |
|--|----------------------------------|----------------------------------|--|----------------------------------|--------------------|--|---------------------------------|--|--|--|
| Title Supervisor-Other (ASNT Level III) Years of experience with other employer(s) 14 Degree(s) / Years / Specialization High School Diploma / 1990 / General Studies Active registration number / state / expiration date N/A High School Diploma / 1990 / General Studies Active registration number / state / expiration date N/A N/A Discipline N/A Discipline N/A Discipline N/A Other Pertinent Training / Certifications ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 01/2025) ASNT Level III - Discipline AssNT Level III - Liquid Penetrant Testing (#186946; expiration | Name James Kretzler, CWI, ASNT 3 | | | | | Years of experience with this employer | 11 | | | |
| Degree(s) / Years / Specialization High School Diploma / 1990 / General Studies Active registration number / state / expiration date N/A Year registered N/A Discipline N/A Other Pertinent Training / Certifications ASNT Level III - Magnetic Particle Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 00/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 00/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 00/2025) ASNT Level III - Utrasonic Testing (#186946; expiration 00/2025) ASNT Level III - Utrasonic Testing (#186946; expiration 00/2025) ASNT Level III NDE Consultancy (satisfies MPR #7) Experience dates Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , relesigned drainage", "designed girders", "designed (mm/y-mm/y) 07/15-Present NDE Department Manager - Mr. Krctzler is managing the NDE Department of KTA's Steel/Concret/NDE Group. He has financial and operational responsibilities along with project management, busines development, hiring, and training or non-destructive examinations services. Mr. Krctzler is providing Level III services internally for KTA and externally for clients that include writing and reviewing NDE technicians. He is also providing NDE procedures and certifying NDE technicians. He is also providing NDE more durates for Level II Magnetic Particle and Level II Dye Penetrant inspection as well as Ultrasonic Level information bridge girder at various shop locations. KTA as a subconsultant to another engineering | Title S | Supervis | or-Other (ASNT Leve | el III) | | Years of experience with other employer(s) | 14 | | | |
| Active registration number / state / expiration date N/A Year registered N/A Discipline N/A Vear registered N/A Discipline N/A Other Pertinent Training / Certifications ASNT Level III – Liquid Pearlant Testing (#186946; expiration 10/2025) ASNT Level III – Liquid Pearlant Testing (#186946; expiration 10/2025) ASNT Level III – Liquid Pearlant Testing (#186946; expiration 10/2025) ASNT Level III – Utaxioni Testing (#186946; expiration 10/2025) ASNT Level III – Utaxioni Testing (#186946; expiration 10/2025) ASNT Level III – Utaxioni Testing (#186946; expiration 00/30/2026) Contract role(s) / brief description of responsibilities ASNT Level III – DItaxion Testing (#186946; expiration 00/30/2026) Contract role(s) / brief description of responsibilities ASNT Level III NDE Consultancy (statisfies MPR #7) Experience dates Experience dates should cover the years of experience specified in the applicable MPR(s). 07/15-Present NDE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Steel/Converte/NDE Group. He has financial and operational responsibilities and py viti project management, business development, bring, and training for on-destructive examination services. Mr. Kretzler is providing uber (III classes covering UT thickness, struight beam, and angle beam inspections. 10/21-10/21 North Dakota Department of Transportation, Bismarck, ND - KTA project manager for Phased Array Ultrasonic Testing (#RUT) on various bridges fro avarious shop locations. KTA was a subcossibant to another enginee | Degree(s) | / Years | / Specialization | | High | School Diploma / 1990 / General Studies | | | | |
| Year registeredN/ADisciplineN/A Other Pertinent Training / Certifications ASNT Level III - Magnetic Particle Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Liquid Penetrant Testing (#186946; expiration 10/2025) ASNT Level III - Ultrasonic Testing (#186946; expiration 10/2025) ASNT Level III - DisciplineContract role(s) / brief description of responsibilitiesASNT Level III NDE Consultancy (satisfies MPR #7)Experience datesExperience and qualifications relevant to the proposed contract: <i>i.e.</i> , "designed drindarg," "designed grinders", "designed grinders", "designed grinders", "d | Active reg | gistration | n number / state / expi | ration date | N/A | | | | | |
| Other Periment Training / Certifications ASINT Level III – Agaiographic Testing (#186946; expiration 10/2025) ASINT Level III – Liquid Penetrant Testing (#186946; expiration 10/2025) ASINT Level III – Liquid Penetrant Testing (#186946; expiration 10/2025) ASINT Level III – Liquid Penetrant Testing (#186946; expiration 10/2025) ASINT Level III – Utasionic Testing (#186946; expiration 10/2025) ASINT Level III – Utasionic Testing (#186946; expiration 00/2025) ASINT Level III – Utasionic Testing (#186946; expiration 00/2025) ASINT Level III – Nationic Testing (#186946; expiration 00/2025) ASINT Level III – Nationic Testing (#186946; expiration 00/2025) ASINT Level III – Nationic Testing (#186946; expiration 00/2025) ANDE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Steel/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hring, and training for non-destructive examination services. Mr. Kretzler is managing the NDE Department of KTA's Steel/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hring, and training for non-destructive examination services. Mr. Kretzler is managing the NDE Department of Transportation, Bismarck, ND - KTA yroject manager for Phased Array Ultrasonic Testing (PAUT) on various bridges flage, Baton Rooge, LA - Supervised the UT inspection of the bridge pins on this structure. He reviewed the inspection and option regarding the condition of the pins. 06/15-12/19 <td< td=""><td>Year regis</td><td>stered</td><td>N/A</td><th>Discipline</th><th>N/A</th><th></th><th></th></td<> | Year regis | stered | N/A | Discipline | N/A | | | | | |
| ANT Level III – Magnetic Particle Testing (#18946; expiration 10/2025) ASNT Level III – Laudographic (#186946; expiration 10/2025) ASNT Level III – Radiographic (#186946; expiration 10/2025) ASNT Level III – Marsonic Testing (#186946; expiration 10/2025) ASNT Level III – Marsonic Testing (#186946; expiration 10/2025) ASNT Level III – Ultrasonic Testing (#186946; expiration 10/2025) ANS Certified Welding Inspector (#07020431; expiration 09/30/2026) Contract role(s) / brief description of responsibilities Experience dates intersection ⁷¹ , etc. Experience dates should cover the years of experience specified in the applicable MPR #7) Experience managing the NDE Department of Kra's Steel/Comp. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is managing the NDE Department of Kra's Steel/Comp. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is no providing NDE trachatical waring and training project manager for Steel and Level II Dye Penetrant inspection as well as Ultrasonic Level I and I Classes covering UT thickness, straight beam, and angle beam inspections. 03/16-05/16 Ho Calcasieu Bridge, Baton Rouge, LA - Supervised the UT inspection of the bridge pins on this structure. He reviewed the inspection and verified welding inspector responsibilities of Vanious shops locations. 12/12-Present | | | | | Other | Pertinent Training / Certifications | | | | |
| ASN Level III - Equip Penetran Testing (#1809-6; expiration 10/2025) ASNT Level III - Addographic Testing (#1809-6; expiration 10/2025) ASNT Level III - Radiographic Testing (#1809-6; expiration 10/2025) ASNT Level III - Ultrasonic Testing (#1809-6; expiration 10/2025) ASNT Level III - Ultrasonic Testing (#1809-6; expiration 02/02.05) NACE Coatings Inspector CIP Level 1 (#54804; expiration 09/30/2026) Contract role(s) / brief description of responsibilities ASNT Level III I NDE Consultancy (satisfies MPR #7) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). NDE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Steel/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is providing Level III services internally for KTA and externally for clients that include writing and reviewing NDE procedures and certifying NDE technicians. He is also providing NDE training services for Level II Magnetic Particle and Level II Dye Penetrant inspection as well as Ultrasonic Level and II classes covering UT hickness, straight beam, and angle beam inspections. 00/21-10/21 North Dakota Department of Transportation, Albany, NY - KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota. KTA was a subconsultant to another engineering firm. 12/12-Present Connecticut Department of Transportation, Albany, NY - KTA project manager for CWI/NDT and coating inspection services during the coatings | | | | | ASNT | Level III – Magnetic Particle Testing (#186946; expiration 10/2025) | | | | |
| Operation District of the Tealing (W186946; expiration 10/2023) AWS Certified Welding Inspector (#07020431; expiration 02/01/2025) NACE Coatings Inspector (#07020431; expiration 02/01/2025) NACE Coatings Inspector (#07020431; expiration 02/01/2025) Contract role(s) / brief description of responsibilities ASN'T Level III NDE Consultancy (satisfies MPR #7) Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). DVE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Stee/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is providing Level III services internally for KTA and externally for Clients that include writing and Teviewing NDE procedures and certifying NDE technicians. He is also providing NDE training services for Level II Magnetic Particle and Level II Dye Penetrant inspection as well as Ultrasonic Level I and II classes covering UT thickness, straight beam, and angle beam inspections of the bridge pins on this structure. He reviewed the inspection data and issued an opinion regarding the condition of the pins. 06/15-12/19 New York State Department of Transportation, Albany, NY - KTA project manager for CWI/NDT and coating inspection services during the for density and polaritom. Newington, CT - Mr. Kretzler was and is the KTA project manager for seel and concrete fabrication and coating inspection services at various shop locations. 10/212-07/15 N | | | | | ASN I ASN T | Level III – Liquid Penetrant Testing (#186946; expiration $10/2025$) Level III – Radiographic Testing (#186946; expiration $10/2025$) | | | | |
| AWS Certified Welding Inspector (#07020431; expiration 02/01/2025) NACE coatings Inspector (2007) Contract role(s) / brief description of responsibilities AST Level II (M54804; expiration 09/30/205) Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). NDE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Steel/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is providing Level III services internally for KTA and externally for clients that include writing and reviewing NDE procedures and certifying NDE training services for Level II Magnetic Particle and Level II Dye Penetrant inspection as well as Ultrasonic Level I and It classes covering UT thickness, straight beam, and angle beam inspections. 00/12-10/21 North Dakota Department of Transportation, Bismarck, ND - KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota. KTA was a subconsultant to another engineering firm. 03/16-05/16 no flege, Baton Rouge, LA - Supervised the UT inspection of the bridge pins on this structure. He reviewed the inspection data and issued accordance with NYSDOT standards. 12/12-Present Connecticut Department of Transportation, Newington, CT - Mr. Kretzler was and is the KTA project manager for steel and concrete fabrication and coatings inspection services at various shop locations. </td <td></td> <td></td> <td></td> <th></th> <th>ASNT</th> <th>Level III – Ultrasonic Testing (#186946; expiration 10/2025)</th> <th></th> | | | | | ASNT | Level III – Ultrasonic Testing (#186946; expiration 10/2025) | | | | |
| NACE Coatings Inspector CIP Level 1 (#54804; expiration 09/30/2026) Contract role(s) / brief description of responsibilities ASNT Level III NDE Consultancy (satisfies MPR #7) Experience dates Experience dates Experience dates should cover the years of experience specified in the applicable MPR(s). (nm/yy-mm/yy) intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). 07/15-Present NDE Department Manager – Mr. Kretzler is managing the NDE Department of KTA's Steel/Concrete/NDE Group. He has financial and operational and perational II classes covering UT thickness, straight beam, and angle beam inspections. 07/15-Present North Dakota Department of Transportation, Bismarck, ND - KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota Department of Transportation, Albany, NY - KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota Department of Transportation, Albany, NY - KTA project manager for CWI/NDT and coating inspection services during the fabrication of bridge girders at various shop locations. 06/15-12/19 Remedition of Transportation, Newington, CT - Mr. Kretzler was and is the KTA project manager for verseeing the inspection experison and verified avelding tests in accordance with NYSDOT standards. 12/12-Present Connecticut Department of Transportation, Newington, CT - Mr. Kretzler was and is the KTA project manager for steel and concrete fabrication and coating inspection services at various shop locations. 06/15-1 | | | | | AWS | Certified Welding Inspector (#07020431; expiration 02/01/2025) | | | | |
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| 12/12-PresentConnecticul Department of Transportation, Newington, CT - Mr. Kretzler was and is the KTA project manager for steel and concrete fabrication and coatings inspection services at various shop locations.12/12-07/15Pennsylvania Department of Transportation, Harrisburg, PA - KTA supervisor responsible for overseeing the inspection responsibilities of QA inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on NDE technicians, as well as oversaw all NDE activities on various projects.06/08-12/12As an employee of A&A Consultants, Mr. Kretzler provided NDE and CWI services to three inspection consultant companies, and conducted inspections for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained a staff of nine inspectors.05/08; 12/09; 01/10North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | 06/15-12 | 2/19 | accordance with NYSDOT standards. | | | | | | | |
| 12/12-Present Coatings inspection services at various shop locations, inversion of the interviewed interviete interviewed interviewed interviewed interv | | | Connecticut Departme | ent of Transporta | ation. N | ewington, CT - Mr. Kretzler was and is the KTA project manager for ste | el and concrete fabrication and | | | |
| Pennsylvania Department of Transportation, Harrisburg, PA - KTA supervisor responsible for overseeing the inspection responsibilities of QA inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on NDE technicians, as well as oversaw all NDE activities on various projects.06/08-12/12As an employee of A&A Consultants, Mr. Kretzler provided NDE and CWI services to three inspection consultant companies, and conducted inspections for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained a staff of nine inspectors.05/08; 12/09; 01/10North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | 12/12-Pro | resent | coatings inspection services at various shop locations. | | | | | | | |
| 12/12-07/15 inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on NDE technicians, as well as oversaw all NDE activities on various projects. 06/08-12/12 As an employee of A&A Consultants, Mr. Kretzler provided NDE and CWI services to three inspection consultant companies, and conducted inspections for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained a staff of nine inspectors. 05/08; 12/09; 01/10 North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | | | Pennsylvania Departm | nent of Transpo | rtation, | Harrisburg, PA - KTA supervisor responsible for overseeing the insp | pection responsibilities of QA | | | |
| 06/08-12/12 As an employee of A&A Consultants, Mr. Kretzler provided NDE and CWI services to three inspection consultant companies, and conducted inspections for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained a staff of nine inspectors. 05/08; 12/09; 01/10 North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | 12/12-07 | 7/15 | inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on | | | | | | | |
| 06/08-12/12 for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained a staff of nine inspectors. 05/08; 12/09; 01/10 North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | | | As an employee of A&A | A Consultants. Mr | · Kretzl | er provided NDE and CWI services to three inspection consultant compar | ies, and conducted inspections | | | |
| a staff of nine inspectors. 05/08; 12/09; 01/10 North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | 06/08-12 | 2/12 | for Pennsylvania Department of Transportation bridge projects involving the fabrication of girders, cross frames, and tooth dams. He managed and trained | | | | | | | |
| 05/08; 12/09; 01/10 North Shore Connector Project, Pittsburgh, PA - Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the "cut and cover" portion of the light rail system. Mr. Kretzler also provided inspection services on 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | | | a staff of nine inspectors | S. | | | | | | |
| 05/08; 12/09; 01/10 Dotset Drive spanning the cut and cover portion of the right ran system. Mr. Kretzler also provided inspection services on 50 right poles for this project at Jett Industries, Ellwood City, PA in December 2009 and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. | | | North Shore Connecto | or Project, Pittsb | urgh, P | A - Performed visual and dye penetrant weld examinations for a tempora | ry bridge and shoring on Tony | | | |
| rebar in January 2010. | 05/08; 12/09 | 9;01/10 | at Jett Industries, Ellwo | od City. PA in De | ecember | 2009 and completed MT/VT inspection of splice plate welds on retaining | is wall pilings and smoke wall | | | |
| | | | rebar in January 2010. | | | | -6 | | | |



| Firm employed by NTB Associates, Inc. | | | | | | | |
|---------------------------------------|--|---|---|---|---|--|--|
| Name Bryan T | . Bunch, PLS | | | Years of experience with this employer | 15.5 | | |
| Title Executiv | e Vice President | | | Years of experience with other employer(s) | 15 | | |
| Degree(s) / Years | / Specialization | | B.S. | / 1988 / Survey and Land Information Systems | | | |
| Active registration | n number / state / exp | iration date | #PL | S.0005014 / LA / 03-31-2026 | | | |
| Year registered | 2009 | Discipline | Profe | essional Surveyor | | | |
| Contract role(s) / | brief description of re | esponsibilities | Тор | ographic Survey Task Manager (<mark>satisfies MPR #11</mark>) | | | |
| Experience dates | Experience and qua | lifications relev | ant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | shou | ld cover the years of experience specified in the applicable MI | PR(s). | | |
| 01/22-07/24 | H.001779, Jimmie Dav file processing, drafting utility designating/locat the Jimmy Davis Bridge | vis Bridge (LA 51) g, and submittals for ting, title take-offs, e across the Red R | l) Desi or Stati descri iver. | gn-Build, Bossier & Caddo Parishes, LA - Survey project manager response GPS Control surveys, topographic surveys , property surveys, surveys i ption preparations, and preliminary and final right-of-way mapping for the | nsible for directing field crews, in support of QL A, B, C, & D design-build project to replace | | |
| 09/20-07/24 | 4400019337, Rural Br processing, drafting, an utility services, title tak consultant. | idge Replacemen id submittals for St ac-offs, description | t Initia atic Gl prepai | Ative Phase II, Districts 05, 08 & 58 - Survey project manager responsible PS Control surveys, topographic surveys , property surveys, surveys in surations, and preliminary and final right-of-way mapping for 34 bridge and | e for directing field crews, file pport of QL C & D subsurface culvert replacements as a sub- | | |
| 09/20-07/24 | 4400019338, Rural Bri file processing, drafting utility services, title tal consultant. | idge Replacement and submittals for ke-offs, description | Initia r Static n prepa | tive Phase II, Districts 02, 03, 07, 61 & 62 - Survey project manager respon- GPS Control surveys, topographic surveys , property surveys, surveys in surveys, preliminary and final right-of-way mapping for 21 bridge and control surveys. | nsible for directing field crews, upport of QL C & D subsurface culvert replacements as a sub- | | |
| 07/23-07/24 | 4400025041, IIJA Off GPS control surveys, to in support of bridge rep | -System Bridge P pographic survey lacements. | rograr s, prop | n, District 62 - Quality control surveyor assisting with the staffing, coord perty surveys, title take-offs, legal description preparation, and preliminary a | lination, and QA/QC for Static and final right-of-way mapping | | |
| 12/17-07/24 | H.004100.5, I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA - Survey project manager responsible for directing field crews, file processing, drafting, and submittals for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. Task Orders continue to be assigned in additional areas as needed in conjunction with the on-going design-build contract. | | | | | | |
| 04/22-04/23 | 4400017713, Monkhouse to I-49, Caddo Parish, LA - Survey project manager responsible for directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys , surveys in support of QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. | | | | | | |
| 12/20-03/22 | 4400017713, LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA - Survey project manager responsible for directing field crews, file processing, drafting, and submittals for topographic and hydrographic surveys and surveys in support of QL C & D subsurface utility services for bridge repair/rehabilitation. | | | | | | |
| 03/21-03/22 | City-Parish Ward Cre crews and technicians f feet of Ward Creek. | eek at Siegen Lan For control, topogr | e, Eas aphic, | t Baton Rouge Parish, LA (22-DR-US-0013) - Survey project manager and property surveys along with QL B, C, and D subsurface utility design | responsible for managing field nating for approximately 1,500 | | |



| | City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA - Quality control surveyor responsible for supervising south LA field |
|-------------|---|
| 05/15-12/20 | crews and technicians for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface |
| | utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. |
| | H.013643, LA 951: Roadway Washout Repairs, East Feliciana Parish, LA - Survey project manager responsible for directing field crews, file |
| 12/18-01/20 | processing, drafting, and submittals for topographic surveys, QL A, B, C, and D subsurface utility designating/locating, and surveys in support of QL A, |
| | B, C, and D subsurface utility designating/locating for approximately 2,600 feet. |
| | DEC 15-11-03, Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA - Quality control |
| 11/15-05/17 | surveyor responsible for assisting in the staffing, coordination, and QA/QC for control surveys, topographic surveys, property surveys, right-of-way |
| | mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert). |
| | 4400005142 & H.011309.5, MacArthur Interchange Completion Phase II, Route US 90-Z, Jefferson Parish, LA - Survey project manager responsible |
| 10/15-07/16 | for directing field crews, file processing, drafting, and submittals for topographic surveying services for a new roadway connection as a sub-consultant |
| | to SDR Engineering. |
| | Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA - Quality control surveyor responsible for assisting |
| 05/13-10/15 | in the staffing, coordination, and QA/QC for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the |
| | use in engineering plan and specifications. |
| | 4400001798 & H.011094.5, LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA - Quality control surveyor responsible for |
| 04/15-09/15 | assisting in the staffing, coordination, and QA/QC for topographic surveying services , drainage map preparation, and QL B subsurface utility designating |
| | for bridge rehabilitation. |
| | H.004367.5, Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA - Project manager responsible for directing survey crews, |
| 02/14-03/15 | file processing, drafting, and submittals for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility |
| | designating/locating for an overpass connection, relocation of existing lanes, and construction of additional lanes. |
| | H.003074.5 & H.009087.5, I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA - Project manager responsible for directing survey crews, file |
| 07/12-01/14 | processing, drafting, and submittals for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/locating |
| | for interstate rehabilitation as a sub-consultant to GEC, Inc. |
| 07/10 10/10 | 700-03-0125 & 701-65-1538, LA 42 Widening and Improvements District 61, Ascension Parish, LA - Project surveyor responsible for directing |
| 07/10-10/12 | topographic and property surveys and title work to locate all existing structures within 50 feet of proposed right-of-way. Bryan also managed the |
| | preparation of right-of-way acquisition maps for 165 parcels. |
| 01/12/04/12 | 4400001798 & H.009856.5, 1-12 walker to Satsuma, Livingston Parisn, LA - Project surveyor responsible for assisting in the supervision of survey |
| 01/12-04/12 | crews, file processing, dratting, and submittais for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating |
| | for interstate renabilitation. |
| 05/11-11/11 | 4400000681 & H.002230, Goose Bayou Bridge Replacement, Route LA 45, Jenerson Parisn, LA - Project surveyor responsible for directing property |
| | surveys, fille research, and preparation of base and final right-of-way mapping. |
| 02/11 00/11 | H. UU300U.5 & /UU-97-U525, 1-20 Kenabilitation westerfield Avenue to industrial Drive, District U4, Bossier Parish, LA - Project surveyor responsible |
| 02/11-08/11 | for assisting in the supervision of south LA survey crews, the processing, dratting, and submittals for topographic surveying services and surveys in support of OL P. C. and D subsurface utility designating for interstate rehabilitation. |
| | support of QL B, C, and D subsurface utility designating for interstate renabilitation. |



| Firm employed by | Firm employed by NTB Associates, Inc. | | | | | | | |
|----------------------|--|---------------------------------------|--|--|--|--|--|--|
| Name Grant G | illeon, PLS | | Years of experience with this employer | 16 | | | | |
| Title Vice Pres | sident | | Years of experience with other employer(s) | 20 | | | | |
| Degree(s) / Years | / Specialization | B.S. | / 1987 / Construction Engineering Technology | | | | | |
| Active registration | n number / state / expiration date | #PL | S.0005127 / LA / 09-30-2025 | | | | | |
| Year registered | 2007 Discipline | Prof | essional Surveyor | | | | | |
| Contract role(s) / l | brief description of responsibilities | Hyd | rographic Survey Task Leader (<mark>satisfies MPR #10</mark>) | | | | | |
| Experience dates | Experience and qualifications rele | vant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | irders", "designed | | | | |
| (mm/yy–mm/yy) | intersection", etc. Experience date | s shou | ld cover the years of experience specified in the applicable MI | PR(s). | | | | |
| 09/20-07/24 | LADOTD IDIQ Contract for Hydrogra drafting, and submittals for single beam downstream for 289 sites to date through | aphic S and n out sou | urveying Services, Statewide, LA (4400019715) - Project manager directi nultibeam hydrographic surveying services for multiple bridges at schethern districts. | ing field crews, file processing, ieduled intervals upstream and | | | | |
| 01/22-07/24 | LADOTD Jimmie Davis Bridge (LA 5 and coordination for Static GPS control su of-way mapping, and surveys in support across the Red River. | 11) Des urveys, QL A, | sign-Build, Bossier & Caddo Parishes, LA (H.001779) - Quality control topographic surveys, property surveys, title take-offs, description preparatio B, C, & D utility designating/locating for this design-build project to rep | I surveyor assisting in staffing ons, preliminary and final right- place the Jimmy Davis Bridge | | | | |
| 04/21-07/24 | LADOTD Rural Bridge Replacement and coordination for Static GPS Control right-of-way mapping, and surveys in sup Waggoner. | I nitiati survey port of | ve Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Quality contro rs, topographic surveys, property surveys, title take-offs, description prepa QL C & D subsurface utility services for 21 bridge and culvert replacement | ol surveyor assisting in staffing arations, preliminary and final ts as a sub-consultant to Sigma/ | | | | |
| 08/21-07/24 | LADOTD Rural Bridge Replacement coordination for Static GPS Control surv of-way mapping, and surveys in support | Initiat eys, top of QL (| ive Phase II, Districts 05, 08, & 58 (4400019337) - Quality control survographic surveys, property surveys, title take-offs, description preparation <i>C</i> & D subsurface utility services for 34 bridge and culvert replacements as | veyor assisting in staffing and ns, preliminary and final right- a sub-consultant to BKI. | | | | |
| 05/15-07/24 | City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) - Project manager supervising topographic surveys and single beam and multibeam hydrographic surveying services to accurately determine the river bottom and channel location in association with the design of a new stormwater outfall into the river for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. Currently, in the construction management support phase and addressing RFL's as needed. | | | | | | | |
| 09/14-07/24 | USDA/NRCS Property Surveying Services, LA (AG-7217-C-14-0010, AG-2B46-S-16-0004, & 12FPC319D0016) - Project manager responsible for directing field crews, file processing, drafting, and submittals for topographic and property surveying services and map/plat preparation for over 9,000 acres | | | | | | | |
| 04/22-04/23 | LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713) - Quality control surveyor responsible for reviewing data and deliverables for Static GPS Control, topographic surveys, surveys in support of QL C & D subsurface utility designating, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. | | | | | | | |
| 12/20-03/22 | LADOTD LA 47 IWGO Bridge Rehat responsible for assisting with survey cre- determine scour impact. | ilitatio w coorc | n, Historic Bridge Improvement (HBI), Orleans Parish, LA (44000177 lination for topographic surveys and a multibeam hydrographic survey | 713) - Quality control surveyor of the bridge structure piers to | | | | |



| | LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400012669) - Project manager responsible for directing field crews, |
|-------------|--|
| 08/18-11/21 | file processing, drafting, and submittals for single beam and multibeam hydrographic surveys for multiple bridges at scheduled intervals upstream and |
| | downstream for 320 sites throughout southern districts. |
| | Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (Agency Proj. No. Unknown) - Project manager responsible for directing hydrographic |
| 10/20-11/20 | surveying services in support of a directional bore design. The crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining |
| | depths and elevations at 20' intervals for a total distance of 1,100 feet. |
| | LADOTD Retainer Contract for Hydrographic Monitoring of Existing Bridges, Statewide, LA (4400006381 & H.008768) - Project manager |
| 02/16-08/18 | responsible for directing field crews, file processing, drafting, and submittals for single beam hydrographic surveys for multiple bridges at scheduled |
| | intervals upstream and downstream for 225 sites throughout the State including tasks for emergency surveys for historical floods. |
| | LADOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5) - Project manager responsible for directing field |
| 04/15-02/16 | crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating |
| | for interstate rehabilitation. |
| 12/15-01/16 | City of Shreveport, Bickham Bayou Emergency Sewer Repairs, Shreveport, LA (Agency Proj. No. Unknown) - Project manager responsible for |
| 12/13/01/10 | directing field crews, file processing, drafting, and submittals for topographic and single beam hydrographic surveying services . |
| | LADOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5) - Project manager responsible for directing field crews, file processing, |
| 10/15-12/15 | drafting, and submittals for topographic surveys performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the |
| | intersection of Caddo Lake and LA Hwy. I in Caddo Parish east of Mooringsport. |
| 04/15 00/15 | LADOID LA 3094: Hearne Ave. Bridge Kenab, Koute LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) - Project manager responsible for |
| 04/15-09/15 | directing field crews, file processing, dratting, and submittals for topographic surveying services, drainage map preparation, and QL B subsurface utility designating for bridge rebabilitation |
| | LADOTD LA 16 Amite Droinage Improvements Doute LA 16 Tenginahas Device LA (4400001708 & H 000425.5). Droinat manager responsible |
| 07/14 02/15 | for directing field crews, file processing, drafting, and submittals for a single hear hydrographic survey of the drainage pond and related outfalls on this |
| 07/14-02/15 | project to collect the run-off of the drainage system |
| | LADOTD LA 506 Castor Relief Bridges, Route LA 506, Caldwell Parish, LA (345-03-0029, 400001798, & H.002650.5) - Project manager responsible. |
| 04/13-09/13 | for directing survey crews for topographic surveys and hydrographic surveys as related to the creeks and tributaries crossing beneath the 7 bridges along |
| | the project route for use as basis for engineering design. |
| | Field Data Measurements within the Atchafalaya Basin, Buffalo Cove Area, LA (Agency Proj. No. Unknown) - Project surveyor responsible for |
| 08/11-07/13 | supervising GPS control and single beam hydrographic surveying services at predetermined locations across approx. 200 sq. miles of Atchafalaya Basin |
| | as a sub-consultant to Coastal Environments, Inc. |
| | LADOTD Retainer Contract for Professional Hydrographic Surveying Services, Statewide, LA (400001798 & H.008768.5) - Project manager |
| 12/11-11/12 | responsible for directing field crews, file processing, drafting, and submittals for single beam hydrographic surveys for multiple bridges at scheduled |
| | intervals upstream and downstream for 106 sites throughout northern districts. |
| | LADOTD Retainer Contract for Hydrographic Survey Monitoring, Statewide, LA (4400000681 & 700-99-0525) - Project manager responsible for |
| 04/11-12/11 | directing field crews, file processing, drafting, and submittals for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream |
| | and downstream for 64 sites throughout northern districts. |
| 07/00 05/11 | LADOID Retainer Contract for Professional Surveying Services, Statewide, LA (4400000665 & 700-99-0483) - Project manager responsible for |
| 07/09-05/11 | directing field crews, file processing, drafting, and submittals for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream |
| | and downstream for 187 sites inroughout the State. |



| Firm employed by NTB Associates, Inc. | | | | | | | | |
|--|--|---|--|---|---|--|--|--|
| Name Paul Ros | ssini, PLS | | | Years of experience with this employer | 37 | | | |
| Title CEO/ Pri | incipal | | | Years of experience with other employer(s) | 7 | | | |
| Degree(s) / Years | / Specialization | | Higł | n School Diploma, 1980 | | | | |
| Active registration | n number / state / exp | biration date | #PL | S.0004731 / LA / 09-30-2024 | | | | |
| Year registered | 1994 | Discipline | Surv | eyor | | | | |
| Contract role(s) / 1 | brief description of re | esponsibilities | Тор | ographic and Hydrographic Survey QA/QC (satisfies MP) | R #11) | | | |
| Experience dates | Experience and qua | alifications relev | ant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | irders", "designed | | | |
| (mm/yy-mm/yy) | intersection", etc. E | Experience dates | shou | ld cover the years of experience specified in the applicable MI | PR(s). | | | |
| 01/22-07/24 | H.001779, Jimmie D negotiations, scope of legal description prepa for the design-build pro | avis Bridge (LA work, staffing, coo ration, preliminary piect to replace the | 511) I rdinati and fi Jimmy | Design-Build, Bossier & Caddo Parishes, LA - Principal-in-charge of on, and QA/QC for Static GPS Control surveys, topographic surveys , principal-in-charge of nal right-of-way mapping, QL A, B, C, & D utility designating/locating, and Davis Bridge across the Red River. | of contract administration, fee roperty surveys, title take-offs, nd utility coordination services | | | |
| 09/20-07/24 | 4400019715, IDIQ Co scope of work, staffing intervals upstream and | ontract for Hydrog g, coordination, and downstream for 28 | graphi QA/Q 9 sites | c Surveying Services, Statewide, LA - Principal-in-charge of contract ac C for single beam and multibeam hydrographic surveying services for to date throughout southern districts. | dministration, fee negotiations, r multiple bridges at scheduled | | | |
| 05/15-07/24 | City of Bossier, Walt scope of work, staffing services, QL A, B, C, a bridge. Currently, in th | er O. Bigby Carri g, coordination, an and D subsurface ut e construction man | agewa d QA/ ility de ageme | y (N. Pkwy Ext.) Bossier Parish, LA - Principal-in-charge of contract ac QC for Static GPS Control surveys, topographic surveys , property survesignation/locating for a parkway facility design featuring new roads, addition that support phase and addressing RFI's as needed. | dministration, fee negotiations, eys, hydrographic surveying ional lanes, roundabouts, and a | | | |
| 09/20-07/24 | 4400019337, Rural B coordination, and QA/C and final right-of-way | Bridge Replaceme QC for Static GPS C mapping, and QL C | nt Ini Control | tiative, Phase II, Districts 05, 08, & 58 - Principal-in-charge of cor surveys, topographic surveys , property surveys, title take-offs, legal descr subsurface utility services for 34 bridge and culvert replacements as a sub- | ntract administration, staffing, ription preparation, preliminary consultant to BKI. | | | |
| 09/20-07/24 | 4400019338, Rural B logistics, and QA/QC f and final right-of-way | Bridge Replacemen for Static GPS Con mapping, and QL C | n t Init i trol su & D s | Tative Phase II, Districts 02, 03, 07, 61, & 62 - Principal-in-charge of conveys, topographic surveys , property surveys, title take-offs, legal descriptions utility services for 21 bridge and culvert replacements as a sub-converse subsurface utility services for 21 bridge and culvert replacements as a sub-converse service. | ontract administration, staffing, iption preparation, preliminary onsultant to Sigma/ Waggoner. | | | |
| 07/23-07/24 | 4400025041, IIJA Off-System Bridge Program, District 62 - Principal-in-charge of contract administration, staffing, logistics, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements. | | | | | | | |
| 04/22-04/23 | 4400017713, Monkhouse to I-49, Caddo Parish, LA - Principal-in-charge of contract administration, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. | | | | | | | |
| 08/18-11/21 4400012669, IDIQ Contract for Hydrographic Surveying Services, Statewide, LA - Principal-in-charge of staffing, logistics, training, and QA/Q single beam and multibeam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout sou districts. | | | | | | | | |
| 02/16-08/18 | 02/16-08/18 4400006381 & H.008768, Retainer Contract for Hydrographic Monitoring of Existing Bridges, Statewide, LA - Principal-in-charge of stallogistics, training, and QA/QC for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 22 throughout the state including tasks for emergency surveys for historical floods | | | | | | | |



| 04/15 02/16 | 4400005532 & H.011319.5, I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA - Principal-in-charge of contract administration, staffing, |
|-------------|---|
| 04/13-02/10 | coordination, and QA/QC for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating. |
| | 4400001798 & H.011094.5, LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA - Principal-in-charge of fee negotiations, scope |
| 04/15-09/15 | of work, staffing, logistics, and QC/QA for topographic surveying services, HDS 3D Terrestrial Laser Scanning, drainage map preparation, and QL B |
| | subsurface utility designating for bridge rehabilitation. |
| | H.003849 & 700-08-0123, Bossier Parish Police Jury, Hamilton Road Improvements (I-20 to Benton Road) Bossier Parish, LA - Principal-in-charge |
| 03/08-05/15 | of fee negotiations, scope of work, staffing, logistics, and QC/QA for topographic surveys, property surveys, and final right-of-way mapping for roadway |
| | rehabilitation. |
| | 737-25-0003-A & H.006511, Local Road Safety Program, Sight Distance Improvements for Grigsby Road at Ranger Road in Jackson Parish, LA |
| 01/11-08/12 | - Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for Static GPS Control surveys, |
| | topographic surveys, property surveys, title take-offs, and right-of-way mapping. |
| | 737-31-0003-A & 700-99-0444, Local Road Safety Program, Linear Street – Rough Edge Road in Lincoln Parish, LA - Principal-in-charge of |
| 07/09-08/12 | contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for topographic and property surveys, property base maps, and |
| | final right-of-way maps. |
| | BPPJ 2010-277, Bossier Parish Police Jury, Bellevue Road Improvements (US 80 to Winfield Road) Bossier Parish, LA - Principal-in-charge of |
| 01/07-07/12 | contract administration, staffing, coordination, and QA/QC for topographic surveys , property surveys, and right-of-way mapping including preliminary/ |
| | final plans for the widening and possible realignment of Bellevue Road. |
| | 4400000665 & 700-99-0483, Retainer Contract for Professional Surveying Services, Statewide, LA - Principal-in-charge of contract administration, |
| 07/09-05/11 | staffing, logistics, and QA/QC for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 187 sites |
| | throughout the State. |
| | 701-65-0997 & 283-09-0114, MacArthur Avenue Interchange Completion (Phase I) Route US 90, Jefferson Parish, LA - Principal-in-charge of |
| 03/08-11/10 | contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for property surveying and right-of-way acquisition map preparation |
| | on approx. 0.5-mile segment of a new construction project to add turning lane and subsurface drainage. |
| 10/01-08/10 | 700-09-01380, I-49 North (LA 1 to LA 173) Route I-49, Caddo Parish, LA - Principal-in-charge of fee negotiations, scope of work, staffing, logistics, |
| 10/01-00/10 | and QC/QA for topographic surveys, property surveys, and base and final right-of-way maps for a new route covering 7.21 miles and over 50 parcels. |



| Firm employed by NTB Associates, Inc. | | | | | | | |
|---------------------------------------|---|---|--|--|---|--|--|
| Name Mike Ki | ng, PLS | | | Years of experience with this employer | 18 | | |
| Title Vice Pres | sident | | | Years of experience with other employer(s) | 2 | | |
| Degree(s) / Years | / Specialization | | B.S. | / 2012 / Construction Management | | | |
| Active registration | n number / state / exp | piration date | #PLS | S.0005127 / LA / 09-30-2025 | | | |
| Year registered | 2015 | Discipline | Profe | essional Surveyor | | | |
| Contract role(s) / I | brief description of r | responsibilities | Hyd | rographic and Topographic Surveys (<mark>satisfies MPR #11</mark>) | | | |
| Experience dates | Experience and qu | alifications relev | ant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. l | Experience dates | shou | ld cover the years of experience specified in the applicable MI | PR(s). | | |
| 09/20-07/24 | LADOTD IDIQ Con management of field of multiple bridges at sch | ntract for Hydrog crews, file processir neduled intervals up | raphic ng, draf stream | E Surveying Services, Statewide, LA (4400019715) - Assistant projecting, and submittal preparation for single beam and multibeam hydrog and downstream for 289 sites to-date throughout southern districts. | ct manager assisting with the graphic surveying services for | | |
| 01/22-07/24 | LADOTD Jimmie D management of field c preliminary and final r | avis Bridge (LA 5 rews and technician right-of-way mappir | 11) De s for St ng, and | esign-Build, Bossier & Caddo Parishes, LA (H.001779) - Assistant pr atic GPS Control surveys, topographic surveys, property surveys, title take surveys in support of QL A, B, C, & D utility designating/locating for this | roject manager assisting in the e-offs, description preparations, s design-build project. | | |
| 08/21-07/24 | LADOTD Rural Brid of field crews and tech services, title take-off consultant. | Ige Replacement In micians for Static G fs, description prep | itiativ PS Cor aration | e Phase II, Districts 05, 08, & 58 (4400019337) - Assistant project manage introl surveys, topographic surveys , property surveys, surveys in support of s, and preliminary and final right-of-way mapping for 34 bridge and c | ger assisting in the management of QL C & D subsurface utility culvert replacements as a sub- | | |
| 04/21-07/24 | LADOTD Rural Bri management of field subsurface utility servi as a sub-consultant. | dge Replacement I crews and technicia ices, title take-offs, o | I nitiati ans for descrip | ve Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Assistant pr Static GPS Control surveys, topographic surveys, property surveys, sur tion preparations, and preliminary and final right-of-way mapping for 21 b | roject manager assisting in the veys in support of QL C & D oridge and culvert replacements | | |
| 12/17-07/24 | LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5) - Assistant project manager assisting in the management of field crews and technicians for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. Task Orders continue to be assigned in additional areas as needed in conjunction with the ongoing design-build contract. | | | | | | |
| 04/22-04/23 | LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713) - Assistant project manager responsible for assisting in the management of field crews and technicians for Static GPS Control, topographic surveys, surveys in support of QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. | | | | | | |
| 11/22-12/22 | ThermalTech Ouachita River Hydrographic Survey, Ashley County, AR (13004.330) - Assistant project manager under the direction of Grant Gilleon. Assisted with management of field crews, file processing, drafting, and submittal preparation for multibeam hydrographic surveying services to obtain elevations throughout the channel length along the Ouachita River from Monroe, Louisiana to Crossett Harbor west of Crossett, Arkansas. | | | | | | |
| 07/22-07/22 | KZJV Plaquemines I the management of fi Plaquemines LNG Pla river water pumps. | Parish Hydrograph ield crews and tech int near a proposed | nic Sur mician Firewa | vey, LA (000078-574141) - Assistant project manager under the direction s for multibeam hydrographic surveying services including side sca ter Platform along the south end of the Mississippi River to confirm the d | n of Grant Gilleon. Assisted in n sonar in the vicinity of the epths beneath the platform and | | |



| | LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) - Assistant survey project |
|-------------------|--|
| 12/20-03/22 | manager for the management of field crews and technicians for topographic surveys, surveys in support of QL C & D subsurface utility services, and a |
| | multibeam hydrographic survey of the bridge structure piers to determine scour impact for bridge repair/ rehabilitation. |
| | LADOTD IDIQ Contract for Hydrographic Surveying Services Statewide, LA (4400012669) - Assistant project manager for the management of field |
| 07/20-11/21 | crews, file processing, drafting, and submittal preparation for single beam and multibeam hydrographic surveying services for multiple bridges at |
| | scheduled intervals upstream and downstream for 320 sites throughout southern districts. |
| | City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) - Quality control surveyor for the review of |
| 05/15-12/20 | data and drafting for Static GPS Control surveys; topographic, property, and hydrographic surveying services; and surveys in support of QL A, B, C, |
| | and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. |
| | Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (Agency Proj. No. Unknown) - Assistant project manager under the direction of Grant |
| 10/20 11/20 | Gilleon. Assisted with management of field crews, file processing, drafting, and submittal preparation for single beam hydrographic surveying services |
| 10/20-11/20 | in support of a directional bore design. The crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations |
| | at 20' intervals for a total distance of 1,100 feet. |
| 04/15 02/16 | LADOTD I-20 (Airline Drive to I-220) Bossier Parish, LA (4400005532 & H.011319.5) - Quality control surveyor responsible for the review of data |
| 04/13-02/10 | and drafting for topographic surveying services associated with an interstate rehabilitation. |
| | LADOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5) - Quality control surveyor for the review of data and drafting for |
| 10/15-12/15 | topographic surveys performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the intersection of Caddo Lake |
| | and LA Hwy. 1 in Caddo Parish east of Mooringsport. |
| | Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Proj. No. Unknown) - Sr. party chief/technician. |
| 05/13-10/15 | Ran a field crew and downloaded data for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for use in |
| | engineering plan and specifications. |
| 04/15-09/15 | LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) - Quality control surveyor. Reviewed |
| 04/15-09/15 | data and drafting for topographic surveying services and surveys in support of QL B subsurface utility designating for bridge rehabilitation. |
| 07/14-02/15 | LADOTD LA 16 Amite Drainage Improvements, Route LA 16, Tangipahoa Parish, LA (4400001798 & H.009425.5) - Survey party chief/technician. |
| 07/14-02/15 | Ran a field crew and downloaded/processed data for topographic and single beam hydrographic surveying services for drainage improvements. |
| | LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) - Sr. survey party chief/technician. Managed a survey |
| 07/12-01/14 | crew and processed data for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/locating for an |
| | interstate rehabilitation. |
| | LADOTD LA 506 Castor Relief Bridges, Route LA 506, Caldwell Parish, LA (345-03-0029, 400001798, & H.002650.5) Survey party chief/technician. |
| 04/13-09/13 | Ran a field crew and downloaded/processed data for topographic and single beam hydrographic surveying services for use as basis for engineering |
| 01/15/09/15 | design for the replacement or rehabilitation of 7 bridges. Hydrographic surveys were performed as related to the creeks and tributaries crossing beneath |
| | the 7 bridges along the project route. |
| 07/10-10/12 | LADOTD LA 42 Widening and Improvements, District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538) - Survey party chief/technician. Ran |
| 07710 10712 | a field crew and processed data for topographic and property surveys in support of base and final right-of-way mapping, and title work. |
| | LADOTD 1-20 Rehabilitation Westerfield Avenue to Industrial Drive, District 04, Bossier Parish, LA (H.003860.5 & 700-99-0525) - Survey party |
| 02/11-08/11 | chief/technician. Managed a survey crew and processed data for topographic surveying services and surveys in support of QL B, C, and D subsurface |
| | utility designating for an interstate rehabilitation. |
| 0.0 /0.0 0.0 // - | LADOTD Lawrence, Bogalusa, and Coburn Creek Bridges, Route LA 10, Washington Parish, LA (700-99-0484 & 701-65-1347) - Survey party |
| 09/09 - 03/10 | chief/technician. Ran a field crew and processed data for topographic and property surveys in support of title work, title updates, title take-offs, and right- |
| | of-way map preparation. |



| Firm employed by NTB Associates, Inc. | | | | | | | |
|---------------------------------------|--|----------------------|--------------------|---|--|--|--|
| Name Will Wa | ales | | | Years of experience with this employer | 11 | | |
| Title Party Ch | nief | | | Years of experience with other employer(s) | 20 | | |
| Degree(s) / Years | s / Specialization | | High | School Diploma / 1987 / General Studies | | | |
| Active registratio | n number / state / expi | ration date | N/A | | | | |
| Year registered | N/A | Discipline | N/A | | | | |
| | | | Othe | r Pertinent Training / Certifications | | | |
| | 1 . C 1 | •1 •1•7• | Traffi | c Control Supervisor Refresher-LA State Specific (exp. 2/8/27) | | | |
| Contract role(s) / | brief description of re | sponsibilities | Surv | vey Party Chief - Topographic and Hydrographic Surveys | (satisfies MPR #10) | | |
| Experience dates | Experience and qua | lifications relev | vant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed give | irders", "designed | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s shou | Id cover the years of experience specified in the applicable MI | PR(s). | | |
| 11/21 07/24 | 4400019715, LADOT | D IDIQ Contra | ct for | Hydrographic Surveying Services, Statewide, LA - Survey party | chief running a field crew, | | |
| 11/21-07/24 | at scheduled intervals up | stream and down | ning oi istream | for 289 sites to date throughout southern districts. | g services for multiple bridges | | |
| | | nmia Davis Brid | | A 511) Design-Ruild Rossier & Coddo Parishes IA - Field operation | ne manager/survey party chief | | |
| 01/02 07/24 | supervising field operat | ions, running a fi | eld crev | w, and downloading data for Static GPS Control surveys, topographic su | rveys , and property surveys in | | |
| 01/23-07/24 | support title take-offs, le | egal description p | reparati | on, preliminary and final right-of-way mapping, and QL A, B, C, & D util | ity designating/locating for the | | |
| | design-build project to replace the Jimmy Davis Bridge across the Red River. | | | | | | |
| | 4400019337, LADOTD | Rural Bridge R | eplace | nent Initiative Phase II, Districts 05, 08 & 58 - Field operations manager | /survey party chief supervising | | |
| 08/21-07/24 | field operations, runnin | g a field crew, an | d dowr | nloading data for Static GPS Control surveys, topographic surveys , prop | erty surveys in support of title | | |
| | replacements as a sub. | on preparation, pr | CIIIIII | | lating for 54 bridge and curvent | | |
| | CenterPoint Surveying | g Services. Vario | us Par | ishes, LA (Various Agency Proj. Nos.) - Field operations manager/surve | ev party chief supervising field | | |
| 04/22-07/24 | operations, running a fie | eld crew, and dow | nloadir | g data for topographic surveys and property surveying services in suppor | t of title take-offs and right-of- | | |
| | way mapping for mainte | enance and constr | uction | projects. | | | |
| 04/22-04/23 | 4400017713, LADOTD Monkhouse to I-49, Caddo Parish, LA - Survey party chief. Ran a field crew and downloaded data for topographic surveys, | | | | | | |
| 04/22-04/23 | surveys in support of QL C & D subsurface utility designating, and drainage map preparation for interstate rehabilitation. | | | | | | |
| | 4400017713, LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA - Survey party chief. Ran a | | | | | | |
| 12/20-03/22 | field crew and downloaded data for topographic surveys , surveys in support of QL C & D subsurface utility designating, and a multibeam hydrographic | | | | | | |
| | 4400012669 LADOT | D IDIO Contre | ernine act for | - Hydrographic Surveying Services Statewide IA - Survey part | ty chief Ran a field crew | | |
| 07/20-11/21 | downloading/processing | g data, and perform | ning of | her office tasks for single beam and multibeam hydrographic surveying | services at scheduled intervals | | |
| | upstream and downstrea | im for 320 sites th | roughc | out southern districts. | | | |


| 12/18-01/20 | H.013643, LADOTD LA 951: Roadway Washout Repairs, East Feliciana Parish, LA - Survey party chief. Ran a field crew and downloaded data for topographic surveys, surveys in support of QL A, B, C, and D subsurface utility designating/locating, and QL A, B, C, and D subsurface utility designating/locating for road rehabilitation and bridge replacement. |
|-------------|---|
| 04/15-09/15 | 4400001798 & H.011094.5, LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA - Survey party chief. Ran a field crew and downloaded data for topographic surveying services and surveys in support of QL B subsurface utility designating for bridge rehabilitation. |
| 07/14-02/15 | LADOTD LA 16 Amite Drainage Improvements, Route LA 16, Tangipahoa Parish, LA (4400001798 & H.009425.5) - Survey party chief. Ran a field crew and downloaded/processed data for topographic and single beam hydrographic surveying services for drainage improvements. Hydrographic surveys were performed of the drainage pond and related outfalls on this project to collect the run-off of the drainage system. |
| 04/13-09/13 | LADOTD LA 506 Castor Relief Bridges, Route LA 506, Caldwell Parish, LA (345-03-0029, 400001798, & H.002650.5) - Survey party chief. Ran a field crew and downloaded/processed data for topographic and single beam hydrographic surveying services for use as basis for engineering design for the replacement or rehabilitation of 7 bridges. Hydrographic surveys were performed as related to the creeks and tributaries crossing beneath the 7 bridges along the project route. |



| Firm employed by | y NTB Associates, 1 | Inc. | | | | | | |
|---|---|------------------------------------|--------------------|--|----------------------------------|--|--|--|
| Name James " | Corey" Musselman | | | Years of experience with this employer | 5.5 | | | |
| Title Party Ch | nief | | | Years of experience with other employer(s) | 2 | | | |
| Degree(s) / Years | / Specialization | | High | n School Diploma / 2015 / General Studies | | | | |
| Active registration | n number / state / expi | ration date | Non | e | | | | |
| Year registered | N/A | Discipline | N/A | | | | | |
| _ | | - | Othe | r Pertinent Training / Certifications | | | | |
| | | | Traffi | ic Control Technician-LA State Specific (issued 2/7/23 exp. 2/7/27) | | | | |
| Contract role(s) / | brief description of re | sponsibilities | Surv | vey Party Chief – Topographic and Hydrographic Surveys | | | | |
| Experience dates | Experience and qual | lifications relev | ant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s shou | ld cover the years of experience specified in the applicable M | PR(s). | | | |
| | LADOTD Jimmie Dav | vis Bridge (LA 51 | 1) Des | ign-Build, Bossier & Caddo Parishes, LA (H.001779) - Survey Party C | hief/Instrument Man on a field | | | |
| 01/23-07/24 | crew. Downloaded/proc | essed data for Sta | tic GPS | S Control surveys, topographic surveys, and property surveys in support is mapping and OL A B C & D utility designating/locating for this designation. | an build project to replace the | | | |
| | Jimmy Davis Bridge act | ross the Red River | | mapping, and QL A, D, C, & D utility designating/locating for this desi | gii-bund project to replace the | | | |
| | LADOTD Rural Bridg | e Replacement I | nitiativ | ve Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Survey Party C | hief/Instrument Man on a field | | | |
| 04/21-07/24 | crew. Downloaded/proc | cessed data for S | tatic G | PS Control surveys, topographic surveys, property surveys, title take- | offs, description preparations, | | | |
| 01/21 0//21 | preliminary and final rig | ght-of-way mapping | ng, and | l surveys in support of QL C & D subsurface utility services for 21 bridge | e and culvert replacements as a | | | |
| | I ADOTD Rural Bride | v waggoner. | nitiati | ve Phase II Districts 05 08 & 58 (4400019337) - Survey Party Chief/Ir | strument Man on a field crew | | | |
| 00/01 07/04 | Downloaded/processed | data for Static C | BPS Co | ontrol surveys, topographic surveys, property surveys in support of the | the take-offs, legal description | | | |
| 08/21-07/24 | preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility designating for 34 bridge and culvert replacements as a | | | | | | | |
| | subconsultant. | | | | | | | |
| | LADOTD IDIQ Contr | act for Hydrogra | aphic S | Surveying Services, Statewide, LA (4400019715) - Survey Party Chief/In | nstrument Man on a field crew. | | | |
| 11/21-07/24 | Downloaded/processed data, and performed other office tasks for single beam and multibeam hydrographic surveying services for multiple bridges at | | | | | | | |
| | ThermalTash Oueshit | | | M 289 sites to date throughout southern districts. | | | | |
| 11/22-12/22 | for multibeam hydrog | a River Hydrogr anhic surveving | apnic : service | Survey, Asiney County, AR (13004.330) - Instrument Man on a field cre | ver from Monroe Louisiana to | | | |
| 11/22 12/22 | Crossett Harbor west of | Crossett, Arkansa | is. | | ver from Wollide, Louistana to | | | |
| | LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) - Instrument Man/Rodman | | | | | | | |
| 12/20-03/22 on a field crew. Downloaded/processed data for topographic surveys and a multibeam hydrographic survey of the bridge structure piers to dete | | | | | | | | |
| | scour impact. | traat for Urdra | aronhi | a Surveying Services Statewide IA (1400012660) Instrument M | an/Podman on a field grow | | | |
| 09/20-11/21 | Downloaded/processed | data. and perform | ed othe | er office tasks for single beam and multibeam hydrographic surveying | services at scheduled intervals | | | |
| 09/20 11/21 | upstream and downstrea | am for 320 sites th | roughc | but southern districts. | | | | |



| Firm en | nployed b | y NTB Associates, | Inc. | | | | | |
|----------|-------------|--|---|-------------------|--|--|--|--|
| Name | James " | Tyler" Boyd | | | Years of experience with this employer | 5.5 | | |
| Title | Survey I | Party Chief / Instrume | nt Man | | Years of experience with other employer(s) | 1 | | |
| Degree | (s) / Years | / Specialization | | High | n School Diploma / 2014 / General Studies | | | |
| Active | registratio | n number / state / exp | iration date | Non | e | | | |
| Year re | gistered | N/A | Discipline | N/A | | | | |
| | | | | Othe | r Pertinent Training / Certifications | | | |
| <u> </u> | . 1 () (| 1 1 | •1 •1•• | Traff | ic Control Technician-LA State Specific (issued 2/7/23; exp. 2/7/27) | | | |
| Contrac | t role(s) / | brief description of re | sponsibilities | Surv | vey Party Chief – Topographic and Hydrographic Surveys | | | |
| Experie | ence dates | Experience and qua | lifications relev | ant to | the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | |
| (mm/yy | /–mm/yy) | intersection", etc. E | xperience dates | s shou | Id cover the years of experience specified in the applicable M | PR(s). | | |
| | | LADOTD Jimmie Day | vis Bridge (LA 51 vessed data for Sta | (1) Des | sign-Build, Bossier & Caddo Parishes, LA (H.001779) - Survey Party C S. Control surveys, topographic surveys, and property surveys in support i | title take offs legal description | | |
| 01/23 | 3-07/24 | preparation, preliminary | v and final right-o | of-wav | mapping, and OL A, B, C, & D utility designating/locating for this desi | gn-build project to replace the | | |
| | | Jimmy Davis Bridge ac | ross the Red River | : | | 8 In Francisco In International Internationa | | |
| | | LADOTD Rural Bridg | ge Replacement I | nitiativ | ve Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) - Survey Party C | Chief/Instrument Man on a field | | |
| 04/2 | 1-07/24 | crew. Downloaded/pro | cessed data for Sinch the second s | tatic G | iPS Control surveys, topographic surveys, property surveys, title take- | offs, description preparations, | | |
| | | I ADOTD Purel Brid | gnt-01-way mappin na Danlacamant I | nitioti | vo Phase II Districts 05 08 & 58 (4400010337) Survey Darty Chief/Ir | and curvent replacements. | | |
| 08/2 | 1-07/24 | Downloaded/processed | data for Static C | BPS Co | ontrol surveys. topographic surveys, property surveys in support of the | tle take-offs, legal description | | |
| | | preparation, preliminary | and final right-of | -way r | napping, and QL C & D subsurface utility designating for 34 bridge and cu | alvert replacements. | | |
| | | LADOTD IIJA Off-Sy | stem Bridge Prog | gram, l | District 62 (4400025041) - Survey Party Chief on a field crew. Downloaded | d/processed data for Static GPS | | |
| 07/23 | 3-07/24 | control surveys, topogr | aphic surveys, pr | operty | surveys, title take-offs, legal description preparation, and preliminary and | final right-of-way mapping in | | |
| | | support of bridge replac | ements. | | · · · · · · · · · · · · · · · · · · · | | | |
| 11/2 | 1 07/24 | LADOTD IDIQ Con | ntract for Hyd | rograp | phic Surveying Services, Statewide, LA (4400019715) - Instrum | ent Man on a field crew. | | |
| 11/2 | 1-07/24 | scheduled intervals upst | tream and downstr | ing otn eam fo | or 289 sites to date throughout southern districts | services for multiple bridges at | | |
| | | KZJV Plaquemines Pa | arish Hydrograph | nic Sur | vey, LA (000078-574141) - Instrument Man on a field crew. Downloaded | /processed data for multibeam | | |
| 07/22 | 2-07/22 | hydrographic surveying | ng services includ | ing sid | e scan sonar in the vicinity of the Plaquemines LNG Plant near a propose | d Firewater Platform along the | | |
| | | south end of the Mississippi River to confirm the depths beneath the platform and river water pumps. | | | | | | |
| 12/20 | 0-03/22 | crew Downloaded/proc | O Bridge Kenabi ressed data for to | litatio nograi | n, Historic Bridge Improvement (HBI), Orleans Parisn, LA (44000177) | 13) - Instrument Man on a field | | |
| 12/20 | 0 05/22 | impact. | | P081 al | surveys and a manufocant nyarographic survey of the orage sur | leture plets to determine scour | | |
| | | LADOTD IDIQ Con | tract for Hydro | graphi | ic Surveying Services Statewide, LA (4400012669) - Instrument M | an/Rodman on a field crew. | | |
| 09/19 | 9-11/21 | Downloaded/processed | data and performe | ed othe | er office tasks for single beam and multibeam hydrographic surveying | services at scheduled intervals | | |
| | | upstream and downstrea | am for 320 sites th | roughe | but southern districts. | | | |



| Firm employed b | y Urban Systems A | ssociates, Inc. | | | | | | | |
|--------------------|---|---|--|---------------------------------|--|--|--|--|--|
| Name Nicole S | tewart, P.E., PTOE | | Years of experience with this employer | 18 | | | | | |
| Title Vice Pre | sident / Transportatio | n Engineer | Years of experience with other employer(s) | 1.5 | | | | | |
| Degree(s) / Years | / Specialization | | B.S. / 1997 / Civil Engineering | | | | | | |
| Active registratio | n number / state / exp | iration date | #PE.0034750 / LA / 09-30-2025 | | | | | | |
| Year registered | 2009 | Discipline | Civil Engineering | | | | | | |
| C | | 1 | Other Pertinent Training / Certifications | | | | | | |
| | | | Professional Traffic Operations Engineering (#2923, expires 08/14/27) | | | | | | |
| | | | Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (1/14/19, 1/ | 14/19, 1/15/19) | | | | | |
| | | | ATSSA Louisiana Traffic Control Supervisor (#840319, issued 11/4/20; expires | 11/3/24) | | | | | |
| ~ | | | ATSSA Traffic Control Technician – Louisiana specific (issued 4/6/21; expires 4 | 4/6/25) | | | | | |
| Contract role(s) / | brief description of re | esponsibilities | Traffic Control Plans Task Leader | | | | | | |
| Experience dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | rders", "designed | | | | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable MI | PR(s). | | | | | |
| | Louisiana DOTD, Bri | idge Preventative | Maintenance District 61 - Principal-in-charge of developing Traffic Manage | ment Plans (TMP) for bridge | | | | | |
| | replacement and repair | projects at various | locations in Louisiana. This included developing various levels of TMP's based or | a LADOTD EDSM guidelines. | | | | | |
| 02/15-06/16 | Tasks included conducting capacity analysis, safety analysis and detour analysis, and developing proposed mitigations where applicable. For the | | | | | | | | |
| | reconstruction of the L | A I bridge over t | he Intracoastal Waterway, a detailed Level 3 TMP was prepared. For this TM | P, detailed work zone impact | | | | | |
| | management strategies | were developed to | help minimize the project's impact on mobility. | | | | | | |
| 04/10 00/11 | 1-10 Crossing, Irish B | ayou Bridge, New | V Orleans, LA - Project manager for this project which involved designing Iran | In Control Devices Plans for | | | | | |
| 04/10-09/11 | of a six (6) lana saction | of Interstate 10 in | cluding nighttime closures. In addition to managing the project, she was responsible for OA OC | | | | | | |
| | France Road North W | dening New Orl | leans I A - Over time, the payement along France Rd, between Centilly Blyd, and | d Havna Blvd had deteriorated | | | | | |
| | and was in need of wid | ening and drainage | e repairs. Adjacent to the west side of the roadway was a concrete floodwall that | limited Right Of Way and the | | | | | |
| 12/16-04/21 | ability to maintain two-way traffic throughout construction. Ms Stewart developed site specific Traffic Control Plans that implemented a one-way | | | | | | | | |
| 12,10 0 1,21 | system and detoured traffic that would normally traverse in the opposite direction of the allowed movement. The plans were designed in accordance with | | | | | | | | |
| | the latest version of the MUTCD and City of New Orleans traffic control standards. | | | | | | | | |
| | Entergy Louisiana, I-1 | 10 Closure at Vet | erans Memorial Boulevard, Jefferson Parish, LA – Led the preparation of Trai | ffic Control Devices Plans and | | | | | |
| 05/20-07/20 | Traffic Rerouting Plans | s in accordance wit | h LADOTD, Jefferson Parish and MUTCD standards for Entergy's removal of o | verhead distribution lines. The | | | | | |
| | plans facilitated the red | irecting traffic arou | und the construction zone. | | | | | | |
| | Louisiana DOTD, TM | IP for I-10: West | of 108 to I-210 Interchange: Rubblize and Overlay - As the lead engineer for | this Traffic Management Plan, | | | | | |
| | Ms. Stewart was respon | nsible for preparati | ion of the safety analysis that was conducted per the guidelines set forth by LAD | OOTD in Guidelines for Crash | | | | | |
| 05/18-04/19 | Data Analysis. She con | Data Analysis. She conducted a queue analysis to identify when lane closures would be permitted, identified the construction impact area and reviewed | | | | | | | |
| | crash data for more that | n 350 collisions. N | As. Stewart identified trends and calculated crash rates and determined that the se | ction of I-10 that was going to | | | | | |
| | be rubblized had a cras | h rate that was high | her than the statewide average and required mitigation. | | | | | | |
| 09/11-02/12 | Williams Boulevard F | loodgate - Design | ed Traffic Control Devices Plans, including haul routes, for the two phased clo | sure of Williams Boulevard at | | | | | |
| 0)/11-02/12 | the Lake Pontchartrain | Levee Floodgate. | The plans were prepared in accordance with Jefferson Parish and MUTCD Standa | rds. | | | | | |



| | Clearview Parkway at West Esplanade Intersection Improvements, New Orleans, LA - Ms. Stewart prepared permanent Traffic Signal Plans which |
|-------------|---|
| 05/06-07/11 | included replacing the controller cabinet, mast arms, signal heads, power source, signs and vehicle detection and interconnect. She also prepared the Traffic |
| | Control Devices and Detour Plans to facilitate traffic through the phases of construction. |
| | Southeast Louisiana Urban Flood Control Project Improvements to Two-Mile Canal (Patriot Street Canal), Phase I, Barataria Blvd. to First |
| 06/11 03/12 | Avenue Canal - Ms. Stewart designed the Traffic Control Devices Plans for improvements to Two Mile Canal. These plans included traffic closure |
| 00/11-03/12 | details, signage, flagmen, and haul routes. Ms. Stewart conducted inspections throughout construction to confirm compliance with the plans that had been |
| | approved by Jefferson Parish. |
| | Louisiana DOTD, MacArthur Interchange Signal Modification/ Signage & Striping / Traffic Control Devices Plans - The traffic study to evaluate |
| 02/12 11/12 | the existing and projected operating conditions of the lower Westbank Expressway was prepared by Ms. Stewart. In the second phase, Ms. Stewart designed |
| 05/12-11/15 | the new traffic signals for the interchange and adjacent signalized intersections. She prepared the striping and signage plans to accommodate the ramp |
| | changes and prepared Traffic Control Devices Plans for the various stages of construction. |
| | USACE Traffic Control Devices Plans - Designed numerous Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and |
| 03/10-07/10 | MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, |
| | barricades, drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were designated when |
| | necessary. Many of the plans were for Corps of Engineers projects. |



| Firm employed by | Urban Systems As | sociates, Inc. | | | | | | | |
|----------------------|--|--|--|----------------------------------|--|--|--|--|--|
| Name Alison M | lichel, P.E., PTOE, P | TP, RSP2i | Years of experience with this employer | 22 | | | | | |
| Title President | t/Transportation Engin | leer | Years of experience with other employer(s) | 3 | | | | | |
| Degree(s) / Years | / Specialization | | B.S. / 1997 / Civil Engineering | | | | | | |
| Active registration | n number / state / expir | ration date | #PE.0030261 / LA / 03-31-2025 | | | | | | |
| Year registered | 2002 | Discipline | Civil Engineering | | | | | | |
| | | | Other Pertinent Training / Certifications | | | | | | |
| | | | Professional Traffic Operations Engineering (#1023, expires 11/06/26) | | | | | | |
| | | | Professional Transportation Planner (#020, expires 11/20/20) Road Safety Professional 1 (#115, expires 12/24) | | | | | | |
| | | | Road Safety Professional 2i (#113, expires 12/24) | | | | | | |
| | | | Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (6/4/18, 6/1 | 1/18, 9/10/18) | | | | | |
| Contract role(s) / I | brief description of res | sponsibilities | Traffic Control Plan QA/QC | | | | | | |
| Experience dates | Experience and qual | ifications relev | vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed g | irders", "designed | | | | | |
| (mm/yy–mm/yy) | intersection", etc. Ex | perience dates | s should cover the years of experience specified in the applicable M | PR(s). | | | | | |
| | Huey P. Long Bridge W | Videning (Westb | ank and Eastbank Approaches and Main Bridge Deck Widening) - The contr | actor for the project brought on | | | | | |
| 03/11-05/13 | USI about half-way into construction to improve the flow of traffic during required closures. Ms. Michel prepared Traffic Control Device Plans (TCDP) | | | | | | | | |
| 00,11 00,10 | for multiple phases of construction. The TCDPs also included the design of a traffic signal plan for the installation of temporary signal heads to control | | | | | | | | |
| | I A 1088/I-12 Interchar | nge - Undated the | \mathbf{x} permanent signage plans for the interchange on L-12 at LA 1088 in St. Tamman | w Parish I A to reflect the new | | | | | |
| 05/09-05/10 | alignment Traffic Control Device Plans were designed based on the sequence of construction drawings and two phases of construction. Specifications | | | | | | | | |
| 00/07 00/10 | for required S-items and a construction cost estimate were also provided. | | | | | | | | |
| | US Army Corps of Eng | ineers LPV 16.2 | Bonnabel Boulevard Floodgate - Designed the Traffic Control Device Plans for | or construction of the LPV 16.2 | | | | | |
| | Bonnabel Blvd. Floodgate in Jefferson Parish, LA. Plans included: haul routes, bypass for the ramp tie in to Bonnabel; diverting Bonnabel southbound | | | | | | | | |
| 02/10-07/10 | traffic to the temporary bypass ramp; and diverting northbound traffic to Bonnabel southbound travel lanes. Plan changes due to unforeseen conditions | | | | | | | | |
| | Included details for floodwall construction while diverting Bonnabel northbound and southbound traffic to the temporary roadway and closing Bonnabel Boulevard. The plans met US Army Corps of Engineers, lefferson Parish and MUTCD standards. Inspections were conducted after any changes to the | | | | | | | | |
| | traffic control plan and/o | or at thirty (30) da | in intervals. | succed after any changes to the | | | | | |
| | Louisiana DOTD, US 9 | 0 (I-49 South) A | Ibertson's Parkway to Ambassador Caffery Design-Build Project, Lafayette | e Parish, LA - Ms. Michel was | | | | | |
| | a member of the key per | a member of the key personnel for this design-build project as the Traffic Engineer. The project included converting US 90 to a controlled access facility | | | | | | | |
| 01/14-08/19 | by converting at-grade i | by converting at-grade intersections to an interchange. The bridge structure had to span the intersection and railroad. She supervised the design and | | | | | | | |
| | analysis and performed (| QA-QC for tempo | brary and permanent signal plans, permanent signage plans, temporary traffic contr | ol plans and the Transportation | | | | | |
| | and modeling signals in | u plans were prep Synchro Phasing | valed using the DOTD's falest TSI format. Analysis included developing design for | our volumes for the design year | | | | | |
| | Manhattan Signal Con | troller Upgrade | \mathbf{s} - Traffic signal modification plans for 11 intersections along the Manhattan F | Boulevard corridor in Jefferson | | | | | |
| 12/18-05/19 | Parish, Louisiana were | prepared in acc | ordance with Jefferson Parish and Manual on Uniform Traffic Control Device | ces (MUTCD) standards. The | | | | | |



| | modifications included controller component upgrades, video detection and pedestrian accommodations at select intersections. During the project Ms. |
|---------------|--|
| | Michel offered her technical expertise from over 17 years of designing traffic signals and preparing technical specifications for Jefferson Parish. |
| | Louisiana DOTD, LA 23: Belle Chasse Bridge & Tunnel - Managing USI's tasks for Owner Verification services focused on reviewing design plans |
| 02/20-Present | for traffic related submittals from the design-builder. These submittals included capacity analysis, plans for traffic signals, signage and striping. Ms. Michel |
| | conducted Quality Assurance/Quality Control reviews to confirm adherence with LADOTD standards and the Manual of Uniform Traffic Control. During |
| | the construction, Ms. Michel may provide support by reviewing Traffic Control Devices Plans for proposed lane closures, detours and advanced warning |
| | signage. |



| Firm employed by | y Urban Systems A | ssociates, Inc. | | | | | | | |
|--------------------|---|---|---|--|--|--|--|--|--|
| Name Christin | e Darrah, P.E. | | Years of experience with this employer | 9 | | | | | |
| Title Transpor | rtation Engineer | | Years of experience with other employer(s) | 20 | | | | | |
| Degree(s) / Years | / Specialization | | B.S. / 1997 / Civil Engineering | | | | | | |
| Active registratio | n number / state / exp | iration date | #PE.0025828 / LA / 09-30-25 | | | | | | |
| Year registered | 1999 | Discipline | Civil Engineering Other Pertinent Training / Certifications Traffic Engineering Analysis Process & Report, Modules 1, 2 and 3 (10/7/20, 10/7/20, 10/9/20) ATSSA Louisiana Traffic Control Supervisor (#873755, issued 4/8/21; expires 4/7/25) ATSSA Traffic Control Technician – Louisiana specific (issued 4/6/21; expires 4/6/25) ATSSA Certified Flagger (issued 7/1/24; expires 6/30/28) | | | | | | |
| Contract role(s) / | brief description of re | sponsibilities | Traffic Control Plans | | | | | | |
| Experience dates | Experience and qua | lifications relev | ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi | irders", "designed | | | | | |
| (mm/yy–mm/yy) | intersection", etc. E | xperience dates | s should cover the years of experience specified in the applicable MI | PR(s). | | | | | |
| 03/21-04/21 | Entergy Louisiana, I-610 Transmission Line Crossing at Frenchman, Orleans Parish, LA - Project engineer for this interstate closure project to assure public safety during overhead transmission lines repairs. Included a full closure of both directions of I-610 and the westbound on-ramp at Elysian Fields Ave. in New Orleans. Ms. Darrah coordinated the six-hour interstate closure and associated detours with the LADOTD and City of New Orleans, LA. She designed Traffic Control Devices Plans that applied MUTCD, LADOTD and City of New Orleans standards for proper placement of traffic control devices including portable changeable message boards. Ms. Darrah used AutoCAD to assist in the final properties of plans. | | | | | | | | |
| 04/18-01/22 | N. Peters Sidewalk Ex sidewalk reconstruction grading, drainage, stree Ms. Darrah also provide | N. Peters Sidewalk Expansion, New Orleans, LA - Project manager responsible for the preparation of construction drawings and specifications for this sidewalk reconstruction adjacent to the Canal Place Shopping Center in the Downtown Development District (DDD). The plans included geometric layout, grading, drainage, street lighting, striping and traffic control. The plans followed all DDD, MUTCD, ADA, New Orleans DPW and S&WB requirements. | | | | | | | |
| 05/20-07/20 | Entergy Louisiana, I- Plans and Traffic Rerou lines. The plans facilitat | 10 Closure at Vet uting Plans in acco ted the redirecting | erans Memorial Boulevard, Jefferson Parish, LA – Assisted with the preparate ordance with LADOTD, Jefferson Parish and MUTCD standards for Entergy's re- traffic around the construction zone. | ion of Traffic Control Devices moval of overhead distribution | | | | | |
| 09/14-12/14 | Louisiana DOTD, SELA 26 Widening of Florida Ave. Canal Phase II and III, New Orleans, LA - Designed the Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate the safe movement of traffic efficiently through the traffic control zone. Haul routes were designated when necessary. | | | | | | | | |
| 01/14-07/17 | North Terminal Louis Armstrong New Orleans International Airport, New Orleans, LA - Led the design of the Maintenance of Traffic Plans for the landside access roadways. The plans were designed in accordance with the Manual of Uniform Traffic Control Devices and LADOTD standards. Ms. Darrah also prepared specifications for the maintenance of traffic items. | | | | | | | | |
| 06/22-10/22 | KCS Acadian Thruwa interchange. Ms. Darra control devices. Efforts | KCS Acadian Thruway, East Baton Rouge, LA - Project included lane closures and a full closure of Acadian Thruway at the KCS bridge near the I-10 interchange. Ms. Darrah prepared the Traffic Control Devices Plans while applying MUTCD and LADOTD standards for the proper placement of traffic control devices. Efforts also included design of lane closures on an I-10 on-ramp for laydown access and police-controlled haul routes. | | | | | | | |
| 03/17-03/18 | Port of New Orleans, | Milan Street Ter | minal, New Orleans, LA - As the project's lead engineer, Ms. Darrah designed | Construction Sequencing and | | | | | |



| | Permanent Striping Layouts and Signage plans. Construction sequencing included keeping port tenants fully operational through each phase of construction. |
|-------------|--|
| | All plans were prepared in accordance with LADOTD and MUTCD guidelines. |
| | Mossville Traffic Control Devices Plan, Lake Charles, LA - As the project manager, Ms. Darrah designed Traffic Control Devices Plans for two |
| 07/22-08/22 | rolling closures of I-10 and associated ramps in Lake Charles, LA for transmission line repairs. Efforts included the design of plans for interstate closures and detours. Ms. Darrah coordinated with the LADOTD and Calcasieu Parish in identifying optimal locations for Dynamic Message Signage placement. |
| 11/20-02/23 | US 190 at Northshore and Camp Villere Roundabouts, St. Tammany Parish, LA - As project engineer, Ms. Darrah oversaw the design of permanent striping and signage plans per LADOTD standards and specifications. She also managed the design of temporary traffic signals that would be required during the multiple phases of roundabout construction. A level 2 Traffic Management Plan (TMP) was also prepared. Ms. Darrah coordinated with the prime-consultant, St Tammany Parish, and LADOTD as needed. |

<u>17. Firm Experience:</u>

| Firm name | TRC Engineers, Inc. | | Past Performance Evalu | uation Discipline(s) | Bridge | |
|---------------------|--------------------------------|-----------------------|---|-------------------------------|-----------------|--------------|
| Project name | IDIQ Contract for In-de | pth Bridge Inspection | ons | Firm responsibility (| (prime or sub?) | Sub |
| Project number | 44-13321 | Owner's name | Louisiana Department | of Transportation and | Development | |
| Project location | Statewide | | Owner's Pro | oject Manager Hay | lye Brown, P.E. | |
| Owner's address, pl | hone, email 1201 Capito | l Access Road, Bator | n Rouge, LA 70802-4438 | S (225) 379-1500 <u>H</u> | aylye.Brown@L | <u>A.gov</u> |
| Services commence | ed by this firm (mm/yy) | 04/19 Tot | Total consultant contract cost (\$1,000's) \$ | | | \$1,071 |
| Services completed | by this firm (mm/yy) | 05/22 Cos | st of consultant services | provided by this firm | (\$1,000's) | \$769 |

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



Project Relevance:

- NBIS In-Depth, Routine and Element Level Inspections
- Use of AssetWise Software
- Access Using Technical Rope Climbing Techniques

As a subconsultant, TRC assisted with the successful completion of this retainer contract for NBIS in-depth, routine, and element level inspections of complex structures that included cable stayed and truss bridges. The bridges inspected by TRC's engineers and inspectors includes:

- I-10 over Calcasieu River, Lake Charles (6,607-foot steel cantilever through truss)
- I-10 over Mississippi River, Baton Rouge (4,550-foot steel cantilever through and deck truss) (2 cycles)
- I-310 over Mississippi River, Luling (2,745-foot cable stayed and steel box girder)
- US 90 Business over Mississippi (twin 13,428-foot steel cantilever through truss)

TRC deployed multiple inspection teams from its Louisiana, Mississippi, Pennsylvania, South Carolina, Tennessee, and West Virginia offices, each consisting of a certified NBIS team leader and NBIS certified bridge inspectors to inspect the bridge elements and components. As applicable, such inspections focused on traffic safety features, deck, superstructure elements (trusses, girders, beams, and bearings), substructure elements (piles, piers, and tower bents), waterway, fender systems, and ancillary electrical components. TRC's team leaders wrote the various sections of inspection reports, as well as developed the required data for AssetWise and CAD drawings to show the locations and quantities of observed damage and deterioration on the various bridge elements and components. They additionally determined the SI&A coding, element types, quantities, and condition states for all bridge components. To perform the inspections, TRC inspection teams employed special access equipment such as UB-60 snoopers, bucket trucks, manlifts, technical rope access, and safety/inspection boats.

STAFF TO BE USED IN THIS PROPOSAL: D. Krone, M. Schrepfer, M. Castay, D. Dispennette, C. Jacobs, B. Medlin, D. Wang



| Firm name | TRC Engineers, Inc. | | | | Past Performance Evaluation Discipline(s) Bridge | | | | |
|---|---|---------------------------|------------------------|--|--|------------------|------------|---------------|---------|
| Project name | Retainer Contract for Complex Bridge Rati | | | | ng On-System Trusses | Firm responsib | oility (pr | rime or sub?) | Prime |
| | and other C | and other Complex Bridges | | | | | | | |
| Project number | 400004920 | | Owner's name | | Louisiana Department | of Transportatio | n and D | evelopment | |
| Project location | Statewide | | | | Owner's Pre | oject Manager | Willia | m Metcalf, P. | Е. |
| Owner's address, p | l Access Rd., Rn | n 405 | -T, Baton Rouge, LA 70 | 0802-4438 (225 | 5) 379-1 | 741 | | | |
| | William.Metcalf@LA.gov | | | | | | | | |
| Services commenced by this firm (mm/yy) | | | 03/15 | Total consultant contract cost (\$1,000's) | | | \$4,784 | | |
| Services completed | by this firm | (mm/yy) | 03/20 | Cos | t of consultant services | provided by this | firm (\$ | 1,000's) | \$3,532 |

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



Project Relevance:

- Site assessments
- Load ratings (complex and movable bridges)
- AASHTOWare BrR, LRFR and FE Modeling
- Use of DOTD ProjectWise and AssetWise systems

TRC performed engineering services associated with the completion of complex bridge ratings (on-system trusses and movable bridges) for statewide projects under separate Task Orders. Services being completed under this 5-year contract include: Plan and Document Retrieval and Review; Bridge Site Assessments for the purpose of producing the most accurate rating by accounting for field conditions and gathering field measurements to assist with load rating and record recovery; performance of a System Structural Modeling and Analysis of each assigned bridge to determine dead load and live load effects in the members, including the use of a three-dimensional structural model for complex bridges when required; Load Rating of each assigned bridge based on present condition, capacity and loading using AASHTOWare BrR software, with all structures being rated using the load rating provisions in the current AASHTO Manual for Bridge Evaluation and the LA DOTD Policies and Guidelines for Bridge Rating and Evaluation to include developing the influence lines; HL-93, SHV and EV live loads; **Peer Review Ratings**, other reviews of ratings performed by others; Quality Assurance reviews of all load ratings. The bridges assigned to TRC under the three Task Orders included the following:

- Bridge over Bayou Teche at Adeline (swing)
- LA 47 Gulf Intracoastal Waterway (tied arch/deck truss) LA 319 Intracoastal Canal Bridge (bascule)
- LA 27 over Intracoastal Waterway Bridge (vert. lift)
- LA 657 over Bayou LaFourche (vert. lift)
- Local Road over Bayou Terrebonne (swing)

- LA 1 Bridge over Atchafalaya River (truss)
- LA 654 over Bayou LaFourche (vert. lift)
- LA 83 over Patout Bayou (swing)
- US 90 Business (deck truss / plate girder)
- I-220 (EB & WB), Ramp EN, SE, and WN (segmental, cast-in-place post-tensioned, bent caps)

TRC performed QA of load ratings for our sub-consultants with regard to the following bridges: Charenton Bridge, Jackson Street Bridge, West Middle Pearl River Bridge, and LA 2 Millers Bluff.

STAFF TO BE USED IN THIS PROPOSAL: D. Krone, X. Liu, M. Paul, M. Castay, D. Wang, M. Schrepfer, N. Caiazzo



| Firm name | TRC Engineers, Inc. | | | Past Performance Eval | uation Discipline(s) | Bridge | |
|---|---------------------|----------------|------------------|--|--------------------------------------|----------------|---------|
| Project name | Blennerhass | sett Island Br | idge over the Ol | nio River | Firm responsibility (| prime or sub?) | Prime |
| Project number | N/A Owner's name | | | West Virginia Department of Transportation, Division of Highways | | | hways |
| Project location | Parkersburg, WV | | | Owner's Pr | Owner's Project Manager Keeling Fife | | |
| Owner's address, phone, email 1900 Kanawh | | | ha Blvd. East, B | uilding 5, Room 831, Charle | eston, WV 25305 (304 | 4) 865-0110 | |
| | | keeling.l.fife | e@WV.gov | | | | |
| Services commenced by this firm (mm/yy) | | | 03/22 | Total consultant contract cost (\$1,000's) | | | \$1,022 |
| Services completed by this firm (mm/yy) | | | Ongoing | Cost of consultant services | provided by this firm | (\$1,000's) | \$747 |

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



Project Relevance:

- NBIS Routine Inspections (2)
- Coding of SNBI Data
- Special Inspection (NSTM)
- Network Tied-Arch Main Span
- Fracture Critical Members (NSTM)
- Load Rating (LARSA and AASHTOWare BrR)
- Access Using Technical Rope Climbing Techniques

The structure carries U.S. Route 50 over the Ohio River and historic Blennerhassett Island. The **longest bridge in West Virginia**, the structure has a **total length of 4008'-9"**. The Ohio approach is a **three-span steel girder unit** (171'-0", 179'-0" and 139'-9"), the main span is an 878'-6" **network tied-arch** that crosses the main channel of the Ohio River and has nonredundant steel tension members (NSTM), and the West Virginia approach consists of an **eight-span steel girder unit** with spans up to 400' in length for a total length of 2,624'-11". The 13th span is a reinforced concrete slab. The width of the bridge varies from 100'-6" to 135'-9".

TRC performed the 2022 NBIS hands-on routine (2022, 2024) and a 2023 **special inspection of all non-redundant steel tension members** (NSTM). Given the success of those inspections, TRC was awarded the 6-year NBIS inspection contract for the structure which commenced with a hands-on routine inspection of every element of this network tied-arch bridge in 2024. This inspection was completed by a team of eight (8) TRC inspectors over the course of a week, followed by the preparation of a report with recommendations and submittal within 45 days of the inspection date. This was also the first time that the **coding of all SNBI data** had been done for this structure.

Two UB-60 inspection units were used to access the underbridge portion of the inspection. Access for the above-deck inspection was provided using a 185' manlift and a 150' manlift. The interiors of the arch ribs and tie-girders, end floorbeams, and main span floorbeams were accessed by climbing. Approach stringers, main span floorbeams, piers, and abutments were inspected visually from the underbridge unit, a boat and the ground. For the special inspection in 2023, the need for traffic control was eliminated by using TRC's **technical rope climbers to access and inspect the NSTM floorbeams**.

TRC staff are **presently load rating the bridge** which will use LARSA 4D for the tied-arch and AASHTOWare BrR for the approach spans.

STAFF TO BE USED IN THIS PROPOSAL: D. Dispennette, M. Schrepfer, C. Hay, C. Wood, C. Jacob, L. Brown, N. Caiazzo, B. Smith



| Firm name | TRC Engineers, Inc. | | Past Performance Eval | uation Discipline(s) | Bridge | |
|---------------------|-------------------------|-------------------|-----------------------------|--------------------------------|----------------|---------|
| Project name | LA 47: IWGO Bridge Re | ehabilitation | | Firm responsibility (| prime or sub?) | Prime |
| Project number | H.011965.5 | Owner's name | Louisiana Department | of Transportation and | Development | |
| | H.011965.5-2 | | | | | |
| Project location | Orleans Parish | | Owner's Pre | oject Manager Kelly | y Kemp | |
| Owner's address, pl | hone, email 1201 Capita | Access Road, Bato | n Rouge, LA 70802-4438 | 8 (225) 379-1809 <u>Ke</u> | elly.Kemp@LA. | gov |
| Services commence | ed by this firm (mm/yy) | 03/17 To | otal consultant contract co | ost (\$1,000's) | | \$2,382 |
| Services completed | by this firm (mm/yy) | Ongoing Co | ost of consultant services | provided by this firm (| (\$1,000's) | \$1,955 |

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



Project Relevance:

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

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

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

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

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

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

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

STAFF TO BE USED IN THIS PROPOSAL: D. Krone; M. Paul; M. Schrepfer; X. Liu, D. Wang, M. Castay

| Firm name | TRC Engineers, Inc. | | Past Performance Evaluation Discipline(s) Bridge | | | |
|---------------------|--------------------------|---|--|------------------------------|-----------------|-------|
| Project name | Veteran's Glass City Sky | way Bridge over th | he Maumee River | Firm responsibility (p | orime or sub?) | Prime |
| Project number | N/A | Owner's name | Ohio Department of Tr | ansportation, District 2 | | |
| Project location | Toledo, OH | Foledo, OH Owner's Project Manager David Geckle, PE | | | | |
| Owner's address, pl | hone, email 317 E Poe R | d, Bowling Green, 0 | OH 43402 (419) 373-437 | 7 Email: <u>David.Geck</u> | le@dot.ohio.gov | V |
| Services commence | ed by this firm (mm/yy) | 08/17 To | otal consultant contract co | st (\$1,000's) | | \$800 |
| Services completed | by this firm (mm/yy) | 12/17 C | ost of consultant services | provided by this firm (S | \$1,000's) | \$576 |

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



Project Relevance:

- NBIS In-depth and Element Level Inspections
- Cable-Stayed Segmental Box Main Span
- Prestressed Concrete Segmental Box Approach Spans
- Access Using Technical Rope Climbing Techniques

TRC served as the prime consultant for the 2017 In-depth and Element Level inspections of the Veteran's Glass City Skyway (VGCS) Bridge carrying I-280 over the Maumee River. The structure is comprised of **prestressed concrete segmental box approach spans** and a **symmetric cable-stayed segmental box superstructure main span** with a 425' single pylon and 40 total stays. The **total bridge length for all spans is 8,802'** with the cable-stayed main span measuring 1,525'. Four (4) ramp prestressed concrete segmental box spans total an additional 9,345'.

The inspection included converting the previous condition inspections to element level data and performing this inspection in accordance with the AASHTO Manual for Bridge Element Inspection National Bridge Elements (NBEs) and Bridge Management Elements (BMEs), as well as ODOT's Agency Defined Elements (ADEs). For each of the structure's nine bridges, a written inspection report and InspectTech report were developed along with updated SI&A data and CAD drawings with defect locations and quantities for use by ODOT bridge inspectors during subsequent maintenance inspections. TRC managed multiple in-house inspection teams in addition to three sub-consultant inspection and testing teams.

In addition to the inspection, testing to determine the chloride content in the deck of all the bridge structures was performed to provide information to ODOT prior to an upcoming deck overlay contract. The structure was inspected in August and September 2017 with the final inspection and InspectTech reports completed in December 2017.

To gain access for the inspection, TRC used bucket trucks, manlifts, snoopers and technical rope access means.

STAFF TO BE USED IN THIS PROPOSAL: M. Schrepfer, C. Hay

BURGESS & NIPLE

17. Firm Experience:

| Firm name | Burgess & Niple, Inc. | | Past Performance Eval | uation Discipline | e(s) Bridge | |
|--------------------|------------------------------|---------------------|-----------------------------|-------------------|-----------------------|------------|
| Project name | Complex Bridge Rating | (On-System Trus | ses & Other Complex | Firm responsib | ility (prime or sub?) | Sub |
| | Bridges) | | | | | |
| Project number | 4400023510 | Owner's name | Louisiana Department | of Transportation | n and Development | |
| Project location | Statewide Louisiana | | Owner's Pr | oject Manager | Stephanie Doolittle | |
| Owner's address, p | hone, email 1201 Capitol | l Access Road, Bato | n Rouge, LA (225) 379- | 1329 Stephanie | e.Doolittle@la.gov | |
| Services commence | ed by this firm (mm/yy) | 08/23 To | otal consultant contract co | ost (\$1,000's) | | \$5,000+/- |
| Services completed | by this firm (mm/yy) | Ongoing Co | ost of consultant services | provided by this | firm (\$1,000's) | \$400 |

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



B&N's role as a subconsultant included hands-on fracture critical/Non-Redundant Steel Tension (NSTM), and in-depth inspections of multiple On-System trusses, including the main spans of LA-3213 Veterans Memorial Bridge (Grammercy), LA-27 Gibbstown Intercoastal Waterway, I-20 over the Mississippi in Vicksburg, MS and US-79 Texas St. Bridge in Shreveport, LA. Specialized, adapted rope access techniques were used in the field to minimize the excessive need for costly, time-consuming mechanical access and traffic control.

Accurate and detailed field notes were developed for all primary truss members and gusset plates. Tablets (iPads) and digitized notes were used to add efficiencies to and streamline all phases of the project – mobilization, field work, and reporting. Detailed measurements of section loss, deterioration, misaligned members, and other significant deficiencies were obtained.

STAFF TO BE USED IN THIS PROPOSAL: E. Cinadr, B. Prendeville, M. Kronander, J. Appler

Project Relevance:

- NBIS In-Depth Inspections of Complex Bridges
- Fracture Critical Members (NSTM)
- Access Augmented With Technical Rope Climbing Techniques



BURGESS & NIPLE

17. Firm Experience:

| Firm name | Burgess & Niple, Inc. | | Past Performance Eval | uation Discipline(s) | Bridge | |
|--------------------|-------------------------|---------------------|------------------------------|-----------------------|-----------------|-------|
| Project name | KYTC Ohio River Bridg | es Fracture Criti | cal/NSTM Inspections | Firm responsibility | (prime or sub?) | Prime |
| Project number | 2024-03-2 | Owner's name | Kentucky Transportation | on Cabinet | | |
| Project location | Statewide, Kentucky | | Owner's Pr | oject Manager Ash | ley Graves, PE | |
| Owner's address, p | hone, email 200 Mero St | reet, Frankfort, KY | Y 40601 (270) 651-2956 | Ashley.Graves@ky.g | OV | |
| Services commence | ed by this firm (mm/yy) | 03/24 | Fotal consultant contract co | st (\$1,000's) | | \$671 |
| Services completed | by this firm (mm/yy) | Ongoing | Cost of consultant services | provided by this firm | (\$1,000's) | \$671 |

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



B&N has performed more than 80 Fracture Critical/Non-Redundant Steel Tension (NSTM) and in-depth bridge inspections on 25 Ohio River crossings for KYTC over the course of 15 projects since 2000. Element level data has been collected since 2007. The bridges include three cable stayed structures, two suspension bridges, two tied arch bridges, and the remainder being through truss structures.

The scope of work has included hands on access to all FC/NSTM members, fatigue prone details, and previously documented deficiencies. Access has primarily been achieved through the use of industrial rope access and modified fall protection techniques, with mechanical access as needed. Rehabilitation plans were prepared for ten of the bridges, with load rating analyses also being performed on ten bridges which included primary truss members, arches, cable-stayed spans, and gusset plates. Approximately \$20 million in rehabilitation projects involving these bridges has recently been awarded or will be advertised in the next two months.

STAFF TO BE USED IN THIS PROPOSAL: E. Cinadr, M. Kronander, B. Prendeville, A. Goodrich

 Fracture Critical Members (NSTM)
Access Augmented Using Technical Rope Climbing Techniques

NBIS In-Depth Inspection of

Project Relevance:

Complex Bridges

BURGESS & NIPLE

17. Firm Experience:

| Firm name | Burgess & Niple, Inc. | | Past Performance Evaluation | uation Discipline(s) Bridge | |
|---------------------|-------------------------|------------------|------------------------------|-------------------------------------|---------|
| Project name | Oklahoma DOT On-Syst | em Truss & FC I | Bridge Inspections | Firm responsibility (prime or sub?) | Prime |
| Project number | CI-2416 | Owner's name | Oklahoma Department | of Transportation | |
| Project location | Statewide, Oklahoma | | Owner's Pre | oject Manager Wes Kellogg, PE | |
| Owner's address, pl | hone, email 200 NE 21st | Street, Oklahoma | City, OK 73105 (405) 522 | 2-4819 <u>wkellogg@odot.org</u> | |
| Services commence | ed by this firm (mm/yy) | 04/23 | Fotal consultant contract co | ost (\$1,000's) | \$1,122 |
| Services completed | by this firm (mm/yy) | Ongoing | Cost of consultant services | provided by this firm (\$1,000's) | \$1,122 |

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



Project Relevance:

- NBIS In-Depth Inspections of Complex Bridges
- Fracture Critical Members (NSTM)
- Use of Nondestructive Testing
- Drone/UAV Usage
- Access Augmented With Technical Rope Climbing Techniques

This contract includes NBIS Fracture Critical/Non-Redundant Steel Tension (NSTM), Routine, and In-Depth bridge inspections of 42 steel truss and girder bridge structures located throughout the state, including many major river crossings. Tasks on each structure include the inspection of fracture critical (FC) members at arm's length with industrial rope access and modified fall protection techniques and beam rolling of floorbeams to access FC members and fatigue prone details. Bridges are inspected at a range in which cracks, section loss, and loose or missing bolts or rivets can be identified in steel members and cracks larger than hairline can be identified in concrete components. Bearings and bearing seats are accessed at arm's length distance. An in-depth narrative for each bridge containing observed conditions, repair recommendations, and condition photographs is developed in addition to BrM database reports.

Magnetic Particle, Dye Penetrant, and/or UT measurements are performed to define the limits of any cracking and very accurately measure significant section loss and other deterioration that affects member capacity. Drones/UAV's are also used to augment inspection capabilities.

STAFF TO BE USED IN THIS PROPOSAL: E. Cinadr, B. Prendeville, M. Kronander, J. Appler, A. Goodrich



| Firm name | Collins Engineers South, I | ncorporated | Past Performance Evaluation Discipline(s) Bridge | |
|--------------------|----------------------------|----------------------|--|-----------------|
| Project name | Statewide Underwater B | ridge Inspections | Firm responsibility (prime or sub?) | Prime |
| Project number | 88-3IDP5001 | Owner's name | Texas Department of Transportation | |
| Project location | Statewide, Texas | | Owner's Project Manager Graham Bettis | |
| Owner's address, p | hone, email 125 E. 11th | Street, Austin, TX 7 | 78701 (512) .416-2567 <u>Graham.bettis@txdot.gov</u> | |
| Services commence | ed by this firm (mm/yy) | 02/23 To | otal consultant contract cost (\$1,000's) | \$566 (to date) |
| Services completed | by this firm (mm/yy) | Ongoing C | ost of consultant services provided by this firm (\$1,000's) | \$254 (to date) |

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



Project Relevance:

- NBIS Condition Ratings
- Level I, Level II and Level III Underwater Inspections
- Ultrasonic Nondestructive TestingCombination of Scuba and Surface-
- Supplied Air Diving

The TxDOT has 55,175 bridges, more than any other state and double the number of the state with the second-most bridges. Of those bridges, 43,193 are over water and 30 are international bridges between Texas and Mexico. To assist the state with ensuring the safety of its bridges, Collins was awarded one of two Statewide Underwater Bridge Inspection Master Contracts for Texas DOT.

To date, Collins has completed four work authorizations that have encompasses 106 underwater bridge inspections. The inspections have included all submerged portions of the substructure and foundation bridge elements within the waterway from the waterline to the mudline. Collins has performed Level I inspections on 100% of all inspected elements, Level II inspections on 10% of the inspected elements, and Level III inspections, as needed. Non-destructive testing has been conducted on steel piles using an ultrasonic thickness gauge to determine section loss. Particular attention has been paid to any cracks, spalling, erosion, exposure, and deterioration of concrete, timber, steel substructures, piling, and abutments. Soundings were taken to depict the stream bottom along the bridge's centerline and any evidence of scour around the substructure elements upstream and downstream.

Before mobilizing, Collins developed a Bridge Underwater Inspection Plan, dive plan, and job hazard analysis for each bridge inspection. Following completion of the field inspections, a Bridge Underwater Inspection Report was prepared for each structure, including bridge inventory information, inspection findings, prioritized repair recommendations, scour assessment, drawings, above-water and underwater photographs, and NBIS condition ratings.

Diving operations were completed in accordance with ADCI Consensus Standards and OSHA regulations 29 CFR Part 1910, Subpart T-Commercial Diving Operations. A combination of commercial scuba and surface-supplied air diving equipment was used. All project operations were completed in accordance with NBIS 23 CFR 650 Subpart C, the FHWA Bridge Inspector's Reference Manual, FHWA's "Recording and Coding Guide for the Structure Inventory and

Appraisal of the Nation's Bridges," AASHTO's Manual for Bridge Element Inspection, and all other applicable FHWA, federal, state, and local regulations and specifications. All reports were entered into TXDOT's AssetWise Database.

STAFF TO BE USED IN THIS PROPOSAL: B. Kamrath, R. Forsyth, R. Richard, A. Baldwin, C. Papineau, D. Castillo, C. Klein





| Firm name | Collins Engineers South, I | ncorporated | Past Performance Evalu | uation Discipline(s) | Bridge | |
|---------------------|-------------------------------|----------------------|----------------------------|--------------------------------|------------------|---------|
| Project name | Underwater Bridge Insp | ections (SB2017081 | 7) | Firm responsibility (p | orime or sub?) | Prime |
| Project number | 46369 | Owner's name | Virginia Department of | Transportation | | |
| Project location | Statewide Virginia | | Owner's Pro | oject Manager Brett | Frazer | |
| Owner's address, pl | hone, email 1401 East B | road Street, Richmon | nd, VA 23219 (302) – 37 | 71-2734 <u>Brett.Frazer@</u> | @vdot.virginia.g | OV |
| Services commence | ed by this firm (mm/yy) | 04/18 To | tal consultant contract co | st (\$1,000's) | | \$3,027 |
| Services completed | by this firm (mm/yy) | 08/22 Co | ost of consultant services | provided by this firm (| \$1,000's) | \$1,515 |

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



Project Relevance:

- NBIS In-Depth Inspections
- Large Movable Bridges
- Level I, Level II and Level III Underwater Inspections
- Ultrasonic Nondestructive Testing
- Underwater Imaging
- Combination of Scuba and Surface-Supplied Air Diving

As the prime consultant, Collins was retained to perform underwater inspections of bridges in all nine Districts within Virginia which encompassed 269 bridges and culverts. Bridges ranged in size from simple span structures over stream crossings to large moveable structures crossing large bodies of water and included routine, in-depth, and emergency inspections.

The inspections included all submerged portions of the substructure and foundation bridge elements within the waterway from the waterline to the mudline. Collins performed Level I inspections on 100% of all inspected elements, Level II inspections on 10% of the inspected elements, and Level III inspections, as needed. Non-destructive testing was conducted on steel piles using an ultrasonic thickness gauge to determine section losses resulting from corrosion and on timber piles using corings to determine the presence and extent of deterioration resulting from wood borer (teredo) infestation. Soundings were taken with a continuous recording fathometer to depict the stream bottom along the centerline of the bridge and to depict any evidence of scour around the substructure elements both upstream and downstream. Acoustic imaging was performed on larger structures to obtain a comprehensive view of the substructure units and surrounding channel bottom.

Before mobilizing, Collins developed a Bridge Underwater Inspection Plan, dive plan, and job hazard analysis for each bridge inspection. Following completion of the field inspections, a Bridge Underwater Inspection Report was prepared for each structure, including bridge inventory information, inspection findings, prioritized repair recommendations, scour assessment, drawings, abovewater and underwater photographs, and NBIS condition ratings.

Diving operations were completed in accordance with ADCI Consensus Standards and OSHA regulations 29 CFR Part 1910, Subpart T-Commercial Diving Operations. A combination of commercial scuba and surface-supplied air diving equipment was used. All project operations were completed in accordance with VDOT's IIM-S&B-27.8, NBIS 23 CFR 650 Subpart C, the FHWA Bridge Inspector's Reference Manual, FHWA's "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges," AASHTO's Manual for Bridge Element Inspection, and all other applicable FHWA, federal, state, and local regulations and specifications.



STAFF TO BE USED IN THIS PROPOSAL: B. Kamrath, M. Rogers, R. Richard; A. Baldwin, T. Arnold, C. Knapp, C. Papineau



| Firm name | Collins Engineers South, I | ollins Engineers South, IncorporatedPast Performance Evaluation Discipline(s)Bridge | | | | | | |
|--|---|---|---------------------------|-----------------------|-----------------|---------|--|--|
| Project name | FHWA-EFLHD, Above-water and Underwater Inspection and Firm resp | | | | (prime or sub?) | Prime | | |
| | Load Rating of Bridges a | and Tunnel Structur | res | | | | | |
| Project number | DTFH7117D00003L | FH7117D00003L Owner's name Federal Highway Administration - Eastern Federal Lands Highway | | | | | | |
| Project location | Nationwide | | Owner's Pro | oject Manager Mar | cus Miller, PE | | | |
| Owner's address, p | hone, email Quantum Pa | rk, 22001 Loudoun C | County Parkway, Suite E | 2-3-300, Ashburn, VA | A 20147 | | | |
| | (703) 404-62 | 252 <u>Marcus.Miller@</u> | fhwa.dot.gov | | | | | |
| Services commenced by this firm (mm/yy) 05/18 Total consultant contract cost (\$1,000's) \$5,653 | | | | | \$5,653 | | | |
| Services completed | by this firm (mm/yy) | 12/23 Co | st of consultant services | provided by this firm | (\$1,000's) | \$4,910 | | |

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



Project Relevance:

- NBIS In-Depth and NSTM Inspections
- Complex Bridge Structures
- Level I and Level II Underwater Inspections
- Ultrasonic Nondestructive Testing
- Combination of Scuba and Surface-Supplied Air Diving

As a prime consultant, Collins was retained to perform above-water and underwater inspections, load ratings, and scour assessments of bridges and tunnels owned by the federal government nationwide. Many types of structures were inspected under the contract, including bridges having configurations of single and continuous span, multibeam, girders, box beams, frames, slabs, **trusses**, **suspension**, **arches**, and culverts. In addition, several tunnels were inspected. The materials inspected included concrete, reinforced concrete, prestressed concrete, masonry, steel, and timber. Under the contract, Collins performed 1,025 bridge and tunnel inspections, including 65 underwater inspections.

Collins performed varying types of inspections, including routine, **fracture critical**, initial, **in-depth**, and element-level throughout multiple national parks, including the National Capital Region (NCR) and Baltimore-Washington Parkway, Veteran Health Administration (VHA) facilities, National Cemetery Association (NCA), Department of Defense (DoD) facilities, and national forests. Inspections included the substructure, superstructure, deck, and traffic and safety features for each structure, and identified any structural and functional deficiencies. The inspection procedures conformed to the requirements of the AASHTO Manual for Bridge Element Inspection; 23 CFR 650 Subpart C, NBIS, and Federal Lands Highway Division (FLH) Policies.

Collins performed routine underwater inspections at 24 facilities throughout the National Park Service (NPS) system and multiple Department of Defense (DoD) facilities. The inspections consisted of a Level I inspection of all substructure units within the waterway from the high-water mark to the mulline and Level II inspections being performed on 10% of the substructure units. Soundings were completed around each inspected substructure unit. Due to the various sizes and remote and non-remote locations of the bridges, a combination of commercial scuba and surface-supplied air diving equipment was used.

STAFF TO BE USED IN THIS PROPOSAL: B. Kamrath, J. Johnson, M. Rogers, R. Forsyth, R. Richard, A. Baldwin, T. Arnold, C. Knapp, C. Papineau, T. Harmon

| Firm name | Wiss, Janney, Elstner Ass | ociates, Inc. | Past Performance Evaluation Discipline(s) Bridge |
|---------------------|---------------------------|-----------------------|--|
| Project name | Danziger Lift Bridge Re | pair | Firm responsibility (prime or sub?) Prime |
| Project number | Contract 4400009424, | Owner's name | Louisiana Department of Transportation and Development |
| | H.000303 | | |
| Project location | New Orleans, LA | | Owner's Project Manager Jenny Fu, PE (now with Kiewit) |
| Owner's address, pl | hone, email 1201 Capito | l Access Rd., 6th flo | oor, Baton Rouge, LA 70802 (225) 379-1321 Zhengzheng.Fu@kiewit.com |
| Services commence | ed by this firm (mm/yy) | 07/19 Te | otal consultant contract cost (\$1,000's) \$1,386 |
| Services completed | by this firm (mm/yy) | 07/22 C | Cost of consultant services provided by this firm (\$1,000's)\$1,382 |

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



Project Relevance:

- In-depth Inspection of Bridge Machinery and Electrical Systems
- **Rehabilitation Design**

The Danziger Lift Bridge is an electro-mechanical, tower drive vertical lift bridge that opened to vehicular traffic in 1984. The bridge was reportedly experiencing operational issues, which included the movable span no longer fitting into the available space between the towers as well as one corner of the bridge not seating properly. WJE was tasked with performing an inspection of relevant portions of the main span contributing to the reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the long-term functionality and reliability of the bridge. WJE installed instrumentation and monitoring equipment during the field investigation to evaluate the bridge's operations over an extended period. Based on the findings from our investigation, WJE prepared emergency repair plans and specifications to address some of the operational issues with the bridge.

Significant findings and the associated remedies included the following.

- Improving the lift span riding surface on the steel orthotropic deck with the installation of polyester polymer concrete repairs.
- Identification of pinion shaft bearing damage and the subsequent restoration of the pinion shafts and bearings.
- Addressing the contact of the lift span during warm temperatures with the approach spans by monitoring the joint movements and identifying that daily thermal movements of the approach spans were causing the issue, and that by cleaning the expansion joints, the issue was alleviated.
- Design of a new lift span skew control system after existing components were removed from the bridge and could not be relocated or replaced in kind.
- Design of electrical controls for the clutches associated with the span drive differentials.
- Strain gage testing to measure span balance and implementation of counterweight changes to improve seating of the span.
- Strain gage testing also showed that the span drive differentials on both towers were not functioning properly requiring coordination with the manufacturer to properly adjust the clutches in the differentials.
- Inspection of trunnion bearings and the installation of an automated acoustic monitoring system to assess bearing performance until scheduled replacements are required.

STAFF TO BE USED IN THIS PROPOSAL: J. McGormley, S. Lauer, J. Williams, G. Rees

| Firm name | Wiss, Janney, Elstner Asso | ociates, Inc. | Past Performance Eval | uation Disciplin | e(s) Bridge | |
|--------------------|----------------------------|--------------------|------------------------------|-------------------------|------------------------|-------|
| Project name | Visual and PAUT Inspec | tion and Repair | s of Bridge Pin and Link | Firm responsib | oility (prime or sub?) | Prime |
| | Assemblies | | | | | |
| Project number | 19201091, 61201311 | Owner's name | North Dakota Departm | ent of Transport | tation | |
| Project location | Statewide North Dakota | | Owner's Pr | oject Manager | Steve Cunningham | |
| Owner's address, p | hone, email 600 East Bo | ulevard Ave., Bisi | marck, ND 58505 (701) 32 | 28-4407 <u>scunni</u> | <u>ng@nd.gov</u> | |
| Services commence | ed by this firm (mm/yy) | 08/20 | Total consultant contract co | ost (\$1,000's) | | \$390 |
| Services completed | by this firm (mm/yy) | 01/21 | Cost of consultant services | provided by this | s firm (\$1,000's) | \$391 |

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



Project Relevance:

- Complex Bridge Structures
- Ultrasonic Phased Array Testing of Pin Connections

WJE was retained by NDDOT to perform a visual inspection and phased array ultrasonic testing (PAUT) on the pinned connections of 17 bridges across the state. This project included a condition assessment of 344 bridge pins in pinned hinge or pin and hanger connections.

The WJE team used ultrasonic scans to inspect the connecting pins, while arm's length examinations were used for evaluation of components in the vicinity of the pin connections. Each of the bridges has 12 to 36 pins with pin lengths from 5.2 to 10.3 inches and pin diameters from 3 to 5 inches. The WJE team completed a visual inspection and phased array ultrasonic tests (PAUT) of the pins and connecting members. The team included an engineer who has specialized experience in PAUT and an ANST Level III UT Inspector. Components in the vicinity of the pin connections were also examined visually at arm's length, and connecting pins were subjected to ultrasonic testing using axially oriented scans.

Access to the pinned connections was gained through a truck mounted under-bridge inspection apparatus. The testing included PAUT scans using an angular range of 0°-25° from both ends of the pin. Cracks were discovered at five pinned hinge connections on a pair of the bridges (Eagle's Nest bridges). WJE was retained to inspect and repair those connections. The cracks ranged from 1-1/2 to 14-1/4 inches in length. The hinge crack repairs involved crack removal and field welded repairs per a repair strategy approved by NDDOT. During removal of a fillet weld crack by grinding, WJE engineers discovered that a portion of the crack extended into the hinge plate. This crack was removed by drilling a hole before installing 1/4 inch fillet welds. Section loss on the interior surface of the hinge plate typically resulted in 1/4 inch remaining thickness along the fillet weld toe at the repair locations. Recommendations were made to impress the hinge plate.

perform a load rating considering the remaining section in the hinge plates.

STAFF TO BE USED IN THIS PROPOSAL: C. Schroeder, R. Gessel



| Firm name | Wiss, Janney, Elstner Asso | ociates, Inc. | Past Performance Evaluation Discipline(s) Bridge | |
|---------------------|----------------------------|--------------------|--|---------|
| Project name | East Roundbunch Road | over Cow Bayou | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | Owner's name | Texas Department of Transportation – Bridge Division | |
| Project location | Orange County, TX | | Owner's Project Manager Courtney Holle, PE | |
| Owner's address, pl | hone, email 6230 E. Stas | sney Lane, Austin, | TX (512) 416-2717 <u>Courtney.Holle@txdot.gov</u> | |
| Services commence | ed by this firm (mm/yy) | 06/14 T | otal consultant contract cost (\$1,000's) | \$3,409 |
| Services completed | by this firm (mm/yy) | 06/16 C | ost of consultant services provided by this firm (\$1,000's) | \$1,048 |

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



Project Relevance:

- Inspection of Bridge Machinery and Electrical Systems
- Rehabilitation Design

WJE provided the mechanical and electrical engineering for the replacement of all machinery on this center bearing swing span bridge. WJE was also responsible for the structural engineering and overall rehabilitation project. Moveable bridge services included a scoping inspection, bridge design report, preparation of plans, specifications, and cost estimate for all machinery, as well as provision of construction services.

The intent of the project was to rehabilitate this historic design structure to provide long-term reliable service. Essential design objectives were to replace the deteriorated and outmoded machinery systems with current state-of-the-art systems that would require less maintenance and be more reliable and efficient than the existing drive which had experienced failures and was in a state of advanced wear.

The mechanical design provided complete details for new span drive machinery and support machinery in accordance with the current AASHTO requirements. The span drive machinery was comprised of components with a proven history of utilization on movable bridges and was powered by an electric motor. The support machinery included a new bronze plain center bearing, balance wheels, and a wedge at each corner driven by an electro-mechanical drive train. The design also included center pier live load support rollers. The machinery and structure were protected from risks due to over-travel with energy absorbing end of travel bumpers at the full open and the full closed positions. Elastomeric bumpers were provided as a simple low-cost solution with minimal maintenance requirements.

The electrical design included the provision of new drives, controls, and field devices for the span drive machinery and the end wedge machinery. Electrical design details also included design and integration of new traffic control features, bridge and maintenance lighting, and a CCTV system.

STAFF TO BE USED IN THIS PROPOSAL: J. Williams, G. Rees



| Firm name | NTB Associates, Inc. | | Past Perfo | rmance Evalu | uation Disciplin | e(s) Survey | |
|--------------------|------------------------------|-------------------|-----------------|----------------|------------------------|------------------------|-------------------|
| Project name | IDIQ Contract for Hyd | rographic Surve | ying Services, | Statewide, | Firm responsib | oility (prime or sub?) | Prime |
| | LA | | | | | | |
| Project number | 4400019715 | Owner's name | Louisiana | Department | of Transportatio | on and Development | |
| Project location | Statewide, LA (South Dis | stricts) | | Owner's Pro | oject Manager | Mitch Kent | |
| Owner's address, p | hone, email 1201 Capito | l Access Road, Ba | aton Rouge, LA | 70802 (225 | 5) 379-1013 <u>m</u> | itch.kent@la.gov | |
| Services commence | ed by this firm (mm/yy) | 09/20 | Total consultar | nt contract co | st (\$1,000's) | | \$1,000.0 |
| Services completed | by this firm (mm/yy) | Ongoing | Cost of consult | ant services j | provided by this | s firm (\$1,000's) | \$856.8 (to date) |

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



NTBA is performing **single beam and multibeam hydrographic surveying services** at scheduled intervals upstream and downstream under an IDIQ Contract for existing bridges throughout the State which currently totals 289 sites, including post hurricane assessments. Hydrographic survey duties include training crews in methods consisting of running range lines at predetermined stations over the water and on the banks and recovering baseline and pre-determined range lines using LADOTD benchmarks, determining water elevations, performing a fathometer bar check to ensure correct speed of sound, running and charting predetermined range lines, obtaining marks at predetermined distances along the range lines, and obtaining photographs of the bridge and any debris or adverse conditions.

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

Project Relevance:Hydrographic Surveys

STAFF TO BE USED IN THIS PROPOSAL: P. Rossini, T. Boyd, G. Gilleon, W. Wales, M. King, C. Musselman



TRC Engineers, Inc.



| Firm name | NTB Associates, Inc. | | Past Performance Evaluation Discipline(s) Survey | |
|---|-------------------------|--------------------|--|-------|
| Project name | LA 47 IWGO Bridge Re | habilitation (HBI) | Firm responsibility (prime or sub?) Prime | |
| Project number | 4400017713 | Owner's name | Louisiana Department of Transportation and Development | |
| Project location | Orleans Parish, LA | | Owner's Project Manager Barrett Smith, PLS | |
| Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-1133 barrett.smith@la.gov | | | | |
| Services commence | ed by this firm (mm/yy) | 12/20 T | Total consultant contract cost (\$1,000's) \$ | 588.4 |
| Services completed by this firm (mm/yy) 03/22 Cos | | | Cost of consultant services provided by this firm (\$1,000's) \$ | 588.4 |

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



Project Relevance:

- Topographic Surveys
- 3D Laser Scanning
- Hydrographic Surveys

The LA 47: IWGO Bridge Rehabilitation Project is 6,622 feet long Historic Bridge Improvement (HBI) project connecting New Orleans East and Chalmette across the Intercoastal Waterway Gulf Outlet in Orleans Parish. This "Preservation Priority" bridge consists of concrete slab spans, prestressed girder spans, welded steel plate girder spans, and tied-arch girder truss spans.

NTBA's services on the project entailed installation of six deep rod monuments, **topographic surveys**, establishing a Static GPS Control Network, HDS 3D Terrestrial Laser Scanning, **hydrographic surveying**, and QL C, and D Subsurface Utility Engineering Services. NTBA performed a multibeam hydrographic survey of the bridge structure piers to determine scour impact for the bridge repair/ rehabilitation. From the data collected, NTBA developed surface models to provide drawings of specified piers, joint, and truss locations at four separate times as deliverables. **NTBA worked with TRC Engineers** during the design and planning process for the rehabilitation of various bridge components.

NTBA also provided traffic control coordination of a complete closure of the bridge from Friday at 8pm until Monday at 5am on 4 separate occasions to complete the project on time, within budget and with minimal disruption to the public and local businesses. NTBA successfully resolved the challenge of accessing and capturing the features and locations of the project's physical infrastructure. Hydrographic surveying and 3D Laser Scanning were combined to obtain information on the LA 47 bridge structure located across the Intercoastal Waterway Gulf Outlet. All services were completed in accordance with the Location and Survey Manual and all currently accepted Location and Survey Automated procedures.

STAFF TO BE USED IN THIS PROPOSAL: P. Rossini, B. Bunch, T. Boyd, G. Gilleon, W. Wales, M. King, C. Musselman





| Firm name | KTA-Tator, Inc. | | Past Performance Evaluation Discipline(s) Bridge | | | |
|--|-------------------------|--------------|--|--|--|--|
| Project name | Krotz Springs Bridge | | Firm responsibility (prime or sub?) Sub | | | |
| Project number | 4400025311 | Owner's name | Louisiana Department of Transportation and Development (Hardesty & | | | |
| | | | Hanover – H&H) | | | |
| Project location | St. Landry Parish, LA | | Owner's Project Manager Babak Naghavi, PE, PhD (H&H) | | | |
| Owner's address, phone, email 3850 N. Causeway Blvd, Suite 1625, Metairie, LA 70002 (504) 605-7940 bnaghavi@hardestyhanover.co | | | | | | |
| Services commence | ed by this firm (mm/yy) | 02/24 To | Total consultant contract cost (\$1,000's)\$5,000 | | | |
| Services completed | by this firm (mm/yy) | 04/24 Co | Cost of consultant services provided by this firm (\$1,000's) \$12 | | | |

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



Project Relevance:

- Coating Condition Assessment
- Sample Collection and Laboratory Testing
- Development of Coating Maintenance Strategy

Owned and operated by the LADOTD, the Krotz Springs Bridge was constructed in 1973 and consists of eastbound and westbound structures that each carries two lanes of vehicle traffic over the Atchafalaya River in Krotz Springs, Louisiana. The bridges consist of a 3-span truss main span that measures 780 ft. The coating history indicates that the westbound bridge was last coated in December of 2017 and the eastbound bridge was last coated in May of 2016, both with a coating system consisting of a zinc epoxy primer, epoxy intermediate, and urethane finish.

In September 2023, as a subconsultant under an IDIQ contract for Bridge Inspection Services Statewide, KTA performed a **coating condition** assessment on both structures. The purpose of this assessment was to determine the coating of the existing coatings on the structure in order to develop a maintenance painting strategy for the bridge.

A visual assessment of the coated surfaces was conducted to determine the type, extent, and location of coating breakdown and corrosion on the structure. Coating thickness, number of coats, and adhesion were determined using appropriate instrumentation. Samples were removed for further laboratory examination to determine if toxic metal concentrations were present in the existing coatings and to generically identify the coating type. Photographs of typical coating conditions were taken. The results of the field and laboratory testing, a discussion of those results, and photographs were included in a report prepared and submitted to Hardesty & Hanover.

STAFF TO BE USED IN THIS PROPOSAL: R. Lanterman



| Firm name | KTA-Tator, Inc. | | Past Performance Evaluation Discipline(s) Bridge | |
|---|---------------------------|--------------|--|-------------|
| Project name | I-10 Calcasieu River Brid | lge | Firm responsibility (prime or sub?) | Sub |
| Project number | 44000005960 | Owner's name | Louisiana Department of Transportation and Development (| HNTB-Prime) |
| Project location | Baton Rouge, LA | | Owner's Project Manager Haylye Brown (LAI | DOTD) |
| Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70802-4438 (225) 379-1500 Haylye.Brown@LA.gov | | | | |
| Services commence | ed by this firm (mm/yy) | 03/16 To | tal consultant contract cost (\$1,000's) | \$1,000 |
| Services completed | by this firm (mm/yy) | 05/16 Co | ost of consultant services provided by this firm (\$1,000's) | \$19 |

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



Project Relevance:

- Coating Condition Assessment
- Sample Collection and Laboratory Testing
- Development of Coating Maintenance Strategy
- UT Nondestructive Testing on Bridge Pins

The I-10 Calcasieu River Bridge carries I-10 over local roads, railroads, and the southern end of the Calcasieu River where it flows into Lake Charles. The bridge was constructed in 1952 and is a through truss structure.

In 2016, as a subconsultant to HNTB, KTA performed a **coating condition assessment** (visual examination, degree of rusting, coating system thickness and adhesion, substrate examination, and collection of samples for laboratory testing). The laboratory investigation consisted of microscopic examination, infrared spectroscopy (to determine the generic type of coating present), and ion chromatography. An independent lab was also engaged to perform inductively coupled plasma spectroscopy to detect total lead, chromium, and cadmium present. A report was prepared detailing the results of the assessment and laboratory testing and providing maintenance painting recommendations for the existing coating system on the bridge.

KTA also performed **UT inspection services** on the bridge pins, reviewed the inspection data, and prepared an opinion regarding the condition of the pins.

STAFF TO BE USED IN THIS PROPOSAL: R. Lanterman, J. Kretzler



| Firm name | KTA-Tator, Inc. | | Past Perfo | Past Performance Evaluation Discipline(s) Bridge | | | |
|--|------------------------|---------------------|---|---|-------------------|-------|--|
| Project name | Phased Array UT Inspec | ction of Bridge Pin | S | Firm responsibility (prime or sub?) Sub | | | |
| Project number | N/A | Owner's name | North Da | North Dakota Department of Transportation (Fickett Structural Solutions - | | | |
| | | | Prime) | | | | |
| Project location | Statewide North Dakota | | | Owner's Project Manager | Todd Demski (Ficl | kett) | |
| Owner's address, phone, email 11425 Hanson Blvd. NW, Minneapolis, MN 55433 (763) 285-7963 tdemski@fickettinc.com | | | | <u>n</u> | | | |
| Services commenced by this firm (mm/yy) 10/21 To | | | otal consultant contract cost (\$1,000's) | | | \$200 | |
| Services completed by this firm (mm/yy) 10/21 Cos | | | Cost of consul | tant services provided by this | firm (\$1,000's) | \$21 | |

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



In October 2021, as a subconsultant to Fickett Structural Solutions (Fickett), KTA provided Phased Array Ultrasonic Testing (PAUT) of bridge pins on various bridges throughout the state of North Dakota. PAUT is used to detect component failures and can be applied for inspection of welds, thickness measurements, corrosion inspection, and flaw detection.

The KTA NDE Inspector conducted the PAUT testing in accordance with NDDOT specifications, KTA standard operating procedures, and NDDOT/Fickett contract documents. The KTA NDE Inspector prepared daily inspection reports to document the activities and findings as witnessed at each bridge location. The reports were submitted to the Engineer after review by the KTA's Project Manager, James Kretzler. Material requiring rework was not released until properly repaired.

STAFF TO BE USED IN THIS PROPOSAL: J. Kretzler

Project Relevance:

 PAUT Nondestructive Testing of Bridge Pins



| Firm name | Urban Systems, Inc. | | Past Performance Evaluation Discipline(s) | Traffic | |
|--|--------------------------|-------------------------|--|-----------------|------------|
| Project name | I-10 Closure at Veterans | Memorial Bouleva | rd Firm responsibility (| (prime or sub?) | Sub |
| Project number | 2020-024 | Owner's name | Entergy Louisiana | | |
| Project location | Jefferson Parish | | Owner's Project Manager Noe | l Coari | |
| Owner's address, phone, email 3734 Tulane Ave, Mail Unit L-TUL-113, New Orleans, LA 70119 (504) 595-3812 <u>ncoari@entergy.com</u> | | | | | ntergy.com |
| Services commence | ed by this firm (mm/yy) | 05/20 To | tal consultant contract cost (\$1,000's) | | Unknown |
| Services completed | by this firm (mm/yy) | 07/20 Co | ost of consultant services provided by this firm | (\$1,000's) | \$136K |

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

Urban Systems prepared **Traffic Control Devices Plans** and Traffic Rerouting Plans in accordance with LADOTD, Jefferson Parish and MUTCD standards for Entergy's removal of overhead distribution lines. This project required redirecting traffic around the construction zone. The plans included:

- Closure of power southbound to I-10 eastbound on-ramp with traffic detoured to the I-10 EB on-ramp at Veterans Memorial Boulevard.
- Closures with traffic detoured to the I-10 EB on-ramp at Veterans Memorial Boulevard from:
 - Williams southbound to I-10 eastbound on-ramp
 - o Williams northbound to I-10 eastbound on-ramp
- Airport Access Roadway on-ramp to I-10 eastbound
- Complete closure of I-10 eastbound at Williams Boulevard
- Complete closure of I-10 westbound at Veterans Memorial Boulevard
- Closure of the I-10 westbound on-ramp from Veterans Memorial Boulevard with traffic detoured to the westbound on-ramp from Williams
- Police control at each signalized intersection along the detour route.

STAFF TO BE USED IN THIS PROPOSAL: . N. Stewart, C. Darrah



USI developed compliant traffic control plans in accordance with LADOTD, Jefferson Parish and MUTCD standards that allowed Entergy crews to safety conduct their efforts to remove and replace power distribution lines.

18. Approach and Methodology:

The Louisiana Department of Transportation and Development (DOTD) intends to retain three consultants under an Indefinite Delivery/Indefinite Quantity (IDIQ) contract for the performance of engineering services involving various types of bridge inspections to include routine, in-depth, underwater, special (non-destructive evaluation, coating evaluation or defect specific), and non-redundant steel tension members (NSTM). These inspections will adhere to the 2022 National Bridge Inspection Standards (NBIS) and current Specifications for the National Bridge Inventory (SNBI). Inspections will also be performed in accordance with the current AASHTO Manual for Bridge Evaluation (MBE), AASHTO Manual for Bridge Element Inspection, DOTD Bridge Inspection Manual, and DOTD Bridge Design/Maintenance Technical Memoranda.

Task Orders may include the inspection of cable-stayed, truss, and movable bridges as well as other complex structures. These task orders will also include services associated with the inspections such as underwater diving, hydrographic and topographic surveying, acoustic imaging, non-destructive testing of concrete and steel bridge members, and coating system assessments. Load ratings, design repairs and/or rehabilitation plans may also be performed as warranted and requested by the DOTD.

TRC has a long standing relationship with the DOTD involving the performance of similar services since first introducing the DOTD in 2005, along with our subconsultant Burgess & Niple, to the vision of mitigating disruption to the traveling public by using rope access versus lane closures on the I-10 MRB and GNO 1 & 2 inspections. Over the next 19 years, TRC has performed routine, in-depth, NSTM, damage, and special inspections of major complex bridges statewide that have also included load rating and rehabilitation plans. Most notably, TRC has performed as a subconsultant on three (3) consecutive complex bridge inspection IDIQ contracts for the DOTD since 2016 which involved our staff with the inspection of multiple truss, movable and cable stayed bridges in Louisiana. Over the course of our work under those IDIOs, we have conducted the assigned

TRC has performed as a

subconsultant on three (3)

inspection IDIQ contracts

for the DOTD since 2016 ...

consecutive complex bridge

inspections and delivered all reports ahead of schedule, under budget, and to the highest level of quality.

TRC's team composition for this project was conceived to provide the unique capabilities needed to address all aspects of the scope of work. **TRC will lead the inspections and manage each**

task order, as well as fulfill MPRs 1, 2, 3, 4, 5, and 7. While many of our bridge inspectors are licensed Louisiana Professional Engineers, they are also NBIS certified bridge inspection and NSTM team leaders. Over the past two years, many of our inspectors have taken the SNBI training and have been collecting SNBI data for multiple DOTs.

To assist us with this contract, our team includes the following respected subconsultants:

BURGESS & NIPLE Burgess & Niple (B&N) will perform technical rope access and Unmanned Aerial Vehicle (drone) inspections while meeting MPRs 4 and 5. Since 1969, B&N has performed more than 1,200 rope access bridge inspections and has delivered complex bridge inspections and load rating services to the DOTD since 2005.

COLLINS ENGINEERS² **Collins Engineers South (Collins)** will perform underwater inspections and acoustic imaging, while meeting MPRs 8, 9 and 10. Collins leverages decades of hands-on experience and has been at the

forefront of new techniques in the industry since 1979 while seeking to enhance traditional engineering methods with emerging technologies. Collins has developed multiple manuals and conducted training for both the FHWA and NHI.

NTB Associates (NTBA) will perform hydrographic and topographic surveying while meeting MPRs 10 and 11. NTBA has extensive experience performing conventional surveys, static and RTK GPS, and 3D LiDAR Terrestrial Scanning. They also collect bathymetric survey data of lakes, streams, and rivers to determine underwater features, depths of channels, water bodies, location of debris and bottom profiles utilizing single beam and multibeam equipment. Since 2009, NTBA has performed hydrographic surveying services on six (6) DOTD Hydrographic Retainer Contracts using HYPACK Software Package for bathymetric surveying.



KTA-Tator (KTA) for performing coating assessments with certified SSPC Protective Coating Specialists while meeting MPRs 6 and 7. KTA has performed these tests on many Louisiana bridges on previous IDIQ

contracts. They can also use drones above and underwater vehicles to access key bridge connections.

WJE

Wiss Jenney Elstner Associates (WJE) provides TRC's team with a significant depth and breadth of experience associated with the inspection and rehabilitation design of movable bridge mechanical, hydraulic, and

electrical systems which comes from having worked on over 500 movable bridge projects. WJE will perform the mechanical and electrical inspections and testing as required which shall comply with the AASHTO Movable Bridge Inspection, AASHTO Evaluation and Maintenance Manual, and DOTD manuals. Should rehabilitation design be needed for any movable structures, WJE will address any such work associated with the structures electrical and mechanical systems.

Urban Systems, Inc. (USI) will develop the traffic control plans for each bridge inspection while specifying the correct TTC details to minimize risk and delays to the travel public. USI's involvement in this capacity will allow us to meet the contract's stipulated 2% DBE participation goal.

TRC's team has performed hundreds of Louisiana on-system and off-system bridge inspections and assessments for the DOTD, along with thousands nationally. As a result our bridge inspectors and engineers have become experts at knowing, interpreting, and applying all DOTD requirements in compliance with the Bridge Inspection Manual, NBIS, and AASHTO MBE. As a result of our experience in Louisiana and other states, TRC's team offers a superior understanding of the concrete, steel, and timber deficiencies typically encountered in simple and complex bridges which will result in achievement of the most efficient, cost-effective inspections, and technically sound assessment of deficiencies. It also provides us with the ability to load rate and conduct efficient and cost effective rehabilitation designs. Through our team's technical prowess and passion for understanding all the intricacies/anomalies of complex and movable bridges, we have the ability to apply a variety of innovative inspection techniques for the analysis of more complex structure types.

Part of a bridge owner's (DOTD or local agency) vision is to improve or eliminate a load posting when applicable, extend a bridge's service life, and ultimately ensure the safety of the traveling public. TRC will ensure achievement of that vision through the preparation and development of accurate load ratings and has the expertise to provide effective and economical schematic repair recommendations that improve or eliminate a posting. Depending on the scope of potential repairs, TRC's team is able to provide repair/rehabilitation designs and final plans when needed by DOTD.

APPROACH TO THE PROJECT

TRC's team has worked on numerous bridge inspection projects in Louisiana for the DOTD and throughout the country on project-specific IDIQ Task Order basis and offers a talented group of engineers/inspectors who bring an excellent working synergy with your personnel that will heighten our efficiency and overall performance.

- **STAGE 0 Project Management:** DOTD issues inspection task order, develop inspection team composition and needed resources, submit scope and fee
- STAGE 1 Preparation: Develop inspection plan, objectives, and schedule; document retrieval and review (previous inspection reports, plans, load ratings), coordination with DOTD, USCG, railroad, traffic control, and stakeholders; develop safety plan; mobilize teams and resources
- **STAGE 2 Inspection:** Inspection and assessment (NDE, coating, surveying); QA/QC
- **STAGE 3 Reporting:** Develop an inspection report using the SNBI, elements and condition states and load ratings, and submit in InspectX; QA/QC
- STAGE 4 Repair Recommendations: If required by DOTD, develop repair/rehabilitation designs, load capacity analysis, and needed maintenance functions; QA/QC

Guiding our approach will be the identification of specific areas of deterioration and addressing any structural deficiencies of primary and/or secondary members to identify safety hazards and ultimately extend a bridge's service life through the

development of recommendations for repairs and/or strengthening to increase or eliminate existing load postings where practical. We understand the economic implications to local businesses and industry, agricultural community, and the public that closed or low postings create on vehicular routes. In this regard, our team is adept at proposing alternate load rating methods to assess complex/uncommon framing systems, as well as proposing repair options to address major deficiencies. Our Baton Rouge based bridge inspection teams are also prepared to respond to damage and special inspections due to emergency events such as vehicular impact or natural disasters (flooding or storm events) in order to expedite the resolution of such issues and mitigate their impact on the community and motorists.

Critical findings found during any inspection will be documented and communicated immediately to the TRC PM, DOTD PM, and District Bridge Engineer. If a bridge is recommended for closure, TRC will provide immediate recommendations as part of the load rating (where appropriate) for immediate repair(s) to keep the bridge open to traffic and where appropriate provide a load rating to verify load capacity achievement.

With the 2022 changes to the National Bridge Inspection Standards (NBIS) and introduction of the Specifications for the National Bridge Inventory (SNBI), DOTD is now required to change the coding for each bridge. TRC, B&N, and Collins have assisted state DOTs with the new coding through inspections and reporting. Team members have taken the SNBI training, and no learning curve is necessary.

Contract Manager Durk Krone, PE has led multiple complex bridge inspection projects throughout his career with FHWA and private sector firms and since 2005 on DOTD projects. **Bridge Inspection Task Leader Michael Schrepfer** has planned and led multiple complex bridge inspections throughout the U.S. and Louisiana to include truss, cable stayed, post-tensioned segmental and steel box, movable (bascule, swing, vertical lift), tunnels, and underwater inspections (as a certified surface supplied air diver).

The schedule below depicts the progress of a typical in-depth bridge inspection along with its specific tasks, milestones, and deliverables. The timeline is flexible, with multiple TRC teams being available to accelerate the schedule and/or complete concurrent bridge inspections within each issued task order as needed.

| Stone | Taska | | Months | | | | | | |
|-------|------------------------------------|---|--------|---|---|---|----|----|--|
| Stage | TASKS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | |
| 0 | Project Management | | | | | | | | |
| 1 | Preparation | | | | | | | | |
| 2 | Inspection | | | | | | | | |
| 3 | Reporting & Repair Recommendations | | | | | | | | |
| 4 | Repairs & Load Ratings (as needed) | | | | | | | | |

WORK METHODOLOGY

An in-depth bridge inspection requires thorough planning, execution, and analysis. By following a structured approach and using the appropriate tools and techniques, our team will complete a thorough evaluation of the bridge's condition and make informed decisions for its maintenance and safety. The methodology to plan, coordinate, and inspect complex bridge inspections is similar regardless the structure type. You can trust TRC's team to handle each inspection safely and efficiently.

STAGE 0 - Project Management

TRC's methodology will begin with the development of a scope of work and fee proposal and tentative schedule that will include all pertinent inspection and assessment services. Upon notice to proceed from the DOTD-PM, TRC will assemble a bridge specific inspection team and needed resources for the inspection. These resources may include access methods, specialized testing/evaluation, and required data. TRC's PM and team leaders will execute the task order(s) safely and efficiently to successful completion while adhering to the scope of work and budget.

STAGE 1 – Preparation

TRC's inspection team leaders are well-acquainted with the various inspection methods and access techniques for providing the necessary deliverables for a complex bridge. Upon notification of a Task Order, TRC and its team will develop an inspection plan, logistics, and detailed schedule. Historical documents (previous inspection reports, design/repair plans, load ratings) will be retrieved from various DOTD sources (Section 25 or 51, Plans Room, InspectX, ProjectWise, and District Offices) and local sources (municipal/parish offices, fellow engineering/construction firms familiar with the bridge). As coordination is an integral part of the inspection planning process, team leader(s) will contact and directly interface with stakeholders regarding inspection activities and schedules. These stakeholders will include DOTD Districts (bridge operators, mechanical and electrical technicians for the day-to-day operation and maintenance of the bridge), U.S. Coast Guard (if applicable), Class 1 railroads (if applicable), and local agencies (law enforcement, government). Additional coordination will occur with the maintenance of traffic contractor, aerial access equipment (as needed), and specialized testing for bridge components that may include destructive material testing, electrical systems, and fluids from mechanical pumps. Bridge specific SNBI Elements and Non-Redundant Steel Tension Member (NSTM) will be identified.

For each bridge site, our PM and senior team leader will develop and implement a Site-Specific Health and Safety Plan (HASP) and Job Safety Analyses (JSAs) which address medical service locations, emergency procedures, special access, working at heights, confined space, traffic control, and specific equipment use. Only upon completion of all Stage 1 tasks will our inspection team mobilize to the bridge site.

STAGE 2 - Inspection

Each day of inspection will include a detailed pre-job safety meeting to identify potential safety hazards which will be attended by DOTD and TRC staff who are on-site. TRC has a proven safety track record of no lost workday injuries or reportable accidents while inspecting all types of bridges with traffic control using multiple means of access throughout Louisiana and the U.S. This record and written safety program provide the DOTD with the confidence that a team of professionals will be safely executing the site visits while providing quality deliverables.

Cable-stayed Bridges, Trusses and Box Girders: In-depth inspections of cable-stayed bridges, trusses and box girders, as well as steel and concrete spans and their corresponding elements, will be completed through the use of ladders, boats, manlifts/bucket trucks, under-bridge inspection trucks, technical rope access, and drones.



Drones and technical rope access climbing techniques offer important tools for the TRC team to access complex bridge structures.

Inspection teams will be strategically broken into smaller groups led by seasoned professional engineer team leaders to evaluate specific bridge elements and components such as the approach spans, towers, cables, chords, floor systems, and deck/safety features. Having one team complete the evaluation of all similar bridge elements and components helps keep collected elements data consistent. Where

previous inspection reports have evidence of debris build up at critical locations, the TRC team brings specialized expertise with incorporating bridge component washing techniques to provide visual access to those members resulting in an accurate recordation of deficiencies.

Inspection personnel assigned to evaluate fracture critical details will have taken the FHWA-NHI-130078 course. Those inspectors will concentrate their efforts on fatigue prone details, out of plane bending locations, intersecting welds creating areas of constraint, floor beam/stringer connections, built-up members, previously noted cracks,

and areas of debris. If a suspected crack is identified, the area will be thoroughly cleaned, and either Magnetic Particle or Liquid Penetrant nondestructive testing will be performed to mark termination points for future inspection tracking and repair designs.

Movable: The DOTD Bridge Inspection Manual has a dedicated set of Agency Defined Elements (ADE) for the evaluation and documentation of movable bridge elements and components. As a result, the approach, methodology, and staffing needed to inspect a vertical lift, bascule, pontoon, or swing span structure is similar to that



LA 39 Claiborne Avenue vertical lift truss inspected by TRC.

of an in-depth truss inspection. Observations will be made to confirm that roadway safety items are properly in place and functioning, such as advanced warning signs and signals during openings. A specialized team of mechanical and electrical engineers will be on-site to evaluate the control panels, PLC's, motors, housings, gearing, bearings, hydraulic power units, cables, gears, shafts, couplers, and bearings. Additionally, all aerial/navigation lights and fender systems will be inspected.

Underwater Inspections, Hydrographic Surveys, Acoustic Imaging: Should underwater inspections be required by the DOTD for a bridge(s), TRC will leverage the resources and experience of Collins Engineers. All diving operations will conform to current ADCI Consensus Standards and OSHA regulations. Only ADCI-certified divers and professional engineers with appropriate diving and bridge inspection

related experience will perform diverelated work under this contract. Associated work will involve a Level I, II or III visual and/or tactile inspection of the underwater surfaces of each bridge. This work will be performed in conjunction with and under the direction of a registered professional engineer for the detection of deterioration, deficiencies or damage, and verification of as-built conditions. Depth soundings will be taken using



Collins' underwater imaging and modeling expertise is a strong complement to their best in class diving capabilities.

underwater 2D and 3D acoustic imaging, along with hydrographic analysis, and scour analysis. Scour/undermining of substructure elements will be measured and, if needed, hydraulic analyses and modeling performed using HEC-18, HEC-20, HEC-RAS, and WSPRO.

Specialized Inspections (coating assessments and non-destructive evaluations):

Coating assessments, as required by DOTD, will be performed on steel bridges. The existing condition of coatings (visible coating deterioration/corrosion, coating thickness, coating adhesion, surface preparation, toxic metal content) will be performed and analyzed identify deterioration patterns and provide alternative remediation strategies (spot repair, zone painting, or total removal and replacement).

TRC's nondestructive testing (NDT) experts are accustomed to working closely with structural, material, and design engineers to understand and discover the types of flaws and conditions that are of concern in various situations, then determine the most suitable approach to address these matters using NDT. TRC's team is experienced in developing, validating, and employing specialized nondestructive testing techniques to locate and evaluate a bridge component's flaws or conditions of concern, such as truss pins. These specialized techniques have been used in past projects to rapidly prescreen components to identify areas of concern and deficiency for further detailed evaluations using various NDT methods. TRC's experts have experience detecting, monitoring, and evaluating flaws and conditions throughout the life cycle of bridge

components that includes crack tip monitoring, corrosion studies, emergency event condition surveys, and programmatic maintenance evaluations. Our team is certified to use Ultrasonic Testing (UT), Phased Array Ultrasonic Testing (PAUT), Magnetic Particle (MT), Liquid Penetrant (PT), and other methods to identify and define flaws and defects. We are outfitted with the latest advanced NDT equipment technology to perform these inspections.

STAGE 3 - Reporting

Through our team's extensive bridge inspection experience with complex structures and AssetWise/InspectX software packages, developing accurate inspection data and reporting of existing deficiencies to a bridge owner in a concise and clear manner is paramount. TRC's team will develop each inspection report using the current SNBI, element and condition states, and load ratings (if warranted) that will include photographs, tables, testing results, and detailed information for load ratings, repairs, and rehabilitations. Use of an iPad-based field note system provides data collection in the most efficient manner to smooth data input into InspectX. All reports will undergo a rigorous QA/QC process prior to submission in DOTD's current InspectX system. The deliverables will be uploaded to the DOTD's InspectX and ProjectWise systems. Reports will conform to DOTD's requirements so that data can be submitted efficiently to FHWA.

STAGE 4 – Repair Recommendations

As part of the inspection report deliverables, recommendations for repairs, rehabilitation, load capacity, and any maintenance functions will be reported to the DOTD-PM. At the discretion of the DOTD, TRC's team can conduct any necessary load ratings and analysis to account for measured deterioration or defects found during the inspection. To improve the capacity and longevity of the bridge, TRC's team is well-versed in repair and rehabilitation designs and final plans. As with all aspects of this project, TRC will ensure that final plans and load ratings conform to the QA/QC procedures of DOTD and TRC.

COMMITMENT TO QA/QC

To ensure that all work is delivered in a fashion that exceeds the DOTD's expectations, a proven Quality Management Plan (QMP) with the full support of corporate management backs the TRC team's inspection, load rating, rehabilitation, and instrumentation services. Using the OMP as a foundation,

we will issue a project-specific QA/QC Plan to the DOTD for review and approval within 10 days from notification of award. For each Task Order, TRC will perform checks of the inspection, load ratings, and repair plans by either developing an independent set of documents, calculations or performing a review of the assumptions and calculations. What is critical to the development of an accurate inspection reports, ratings, and plans is the assignment of accurate identification of deteriorated/damaged members, quality photographs and data, and verification of the information reported. Our staff excels at identifying and correcting divergences during our reviews.

TRC

19. Workload:

| Firm(s) All firms must be represented in this table | Past Performance Evaluation Discipline(s) * | Contract Number and State Project Number | Project Name | Remaining Unpaid Balance** |
|---|--|--|--|----------------------------------|
| TRC Engineers, Inc. | Bridge | 44-23512 and H.009730.5 | IDIQ Contract for Complex Bridge Inspection Services (No active task orders from HNTB Corporation (Prime)) | N/A |
| | Bridge | 44-17033 and H.005121.5 | LA 1/LA 415 Connector (* Pending supplement has not been executed by the date of the advertisement for Contract 4400029683 – 85) | \$0 |
| | Bridge | 44-24185 and H.015424.6 | IDIQ Contract for Bridge Preservation Task Order No. 1 – Plank Road | \$155,203 |
| | Bridge | 44-20156 and H.011965.6 | LA 47 IWGO Bridge Rehabilitation CRES | \$137,033 |
| | Road | 44-21128 and H.001234.6 | LA 1: Port Allen Canal Bridge Replacement (Phase 1) | \$516 |
| | Road | 44-21128 and H.001234.6 | LA 1: Port Allen Canal Bridge Replacement (Phase 2) | \$0 |
| | Bridge | 44-21515 and H.011991, H.010004, H.012738, H.011974, H.014191 | Contract 3 for Movable Bridges (5) (No active task orders issued by DOTD) | N/A |
| | Bridge | 44-27652 and TBD | IDIQ Contract for Bridge Load Rating Services (No active task orders issued by DOTD) | N/A |
| Burgess & Niple, Inc. BURGESS & NIPLE | Bridge | 4400023510 / H.009730.5 | Complex Bridge Rating (on-System Trusses and other Complex Bridges) | \$124,228 |
| Collins Engineers South, Incorporated COLLINS ENGINEERSE | None | None | None | N/A |
| Wiss, Janney Elstner Associates, Inc. | Bridge | Contract No. 44-17263, H.014280 | Bayou Ramos Bridge Girder Study, US 90, St. Mary Parish | \$25,000 |
| W/IF | Bridge | Contract No. 44-17263, H.001234.6 | LA1 Port Allen Bridge Settlement | \$95,404 |
| | Bridge | H.012617.6 | I-310: I-10 to US 90, Hale Boggs Memorial (Luling) Bridge, Deck Overlay Repair Consultation, Instrumentation Services | \$0 |

| | Bridge | Contract 4400001762, H.014899.6 | I-10/310 Bonnet Carré Fire Damage Repair | \$37,618 |
|---------------------------------|--------------|--|--|-----------|
| | Bridge | Contract Number 44- 21594, H.015228.5 | Sunshine Bridge Hanger Fracture | \$811 |
| | Bridge | Contract 44-21594 H.000303.6 | Danziger Bridge Rehabilitation | \$28,240 |
| | Bridge | Contract 44-21594 H.009730.4 | T-1 Steel Weld Assessment | \$13,816 |
| | Bridge | Contract 44-21594 H.009730.7 | T-1 Steel Weld Assessment, IWGO | \$351,130 |
| | Bridge | Contract 44-21594 H.009730.8 | T-1 Steel Weld Assessment, US 90; I-20 | \$410,804 |
| | Bridge | Contract 44-25003 H.009730.1 | NDE for Testing/Evaluation of Structures, TO 1 | \$397,681 |
| | Bridge | Contract 44-25003 H.009730.2 | Testing/Evaluation of Structures, TO 2, In-Depth Bridge Inspection, UT of Bridge Pins and Hangers | \$531,056 |
| | Bridge | Contract 44-25003 H.009730.3 | Testing/Evaluation of Structures, TO 3, Service Life Estimates | \$0 |
| | Bridge | Contract DOTLT 1000428 | Louisiana Transportation Research Center, Contract DOTLT 1000428 (LTRC Study 22-2ST) | \$0 |
| NTB Associates, Inc. | Survey | 4400019338 Multiple SP Nos. per bridge | Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner) | \$2,078 |
| SURVEY, DESIGN, BUILD, SUCCEED. | Right-of-Way | 4400019338 Multiple SP Nos. per bridge | Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner) | \$72,627 |
| | Survey | 4400019337 Multiple SP Nos. per bridge | Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI) | \$0 |
| | Right-of-Way | 4400019337 Multiple SP Nos. per bridge | Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI) | \$57,954 |
| | Survey | 4400017067 LWI Task Order 3 | Louisiana Watershed Initiative (LWI) Modeling Contract – Region 1 (Sub to Atkins) | \$3,481 |
| | Survey | 4400019715 H.008768.5 | IDIQ Contract for Hydrographic Surveying Services – Task Order No. 12 – Summer Bridges | \$28,196 |
| | Right-of-Way | 4400025041 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program (Sub to Waggoner) | \$12,735 |

| | Survey | 4400026587 H.001779 | Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.) | \$0 |
|---------------------|--------------|--|---|-----------|
| | Other (SUE) | 4400026587 H.001779 | Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.) | \$145,000 |
| | Right-of-Way | 4400026587 H.001779 | Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.) | \$0 |
| Urban Systems, Inc. | Traffic | No. 440005142 H.011309.5 | Mac Arthur Final Design | \$30,700 |
| U | Traffic | No. PSLC-STJ-Supp-2 H.004891 | Reserve to I-10 | \$1,800 |
| | Traffic | No. H011221.5, H.011222.5; No.4400022581 | I-10: N.O. CBD3 (Poydras- Louisa) & I-10:N.O CBD4 (Louisa – I- 510) | \$100,300 |
| | Traffic | H.001234.6, H.014258.5, H.014258.6 No.4400021128 | LA 1:Port Allen BR Replacement (PH1)(HBI) and (PH2)(HBI) | \$10,100 |
| KTA-Tator, Inc. | Bridge | Contract No. 4400021514 State Project Nos. H.012003, H.011995, H.010007, H.012568, and H.012000 | Contract 2 for Moveable Bridges (5) (No active task orders issued by DOTD) | N/A |
| | Bridge | Contract No. 4400023511 | IDIQ Contract for Bridge Inspection Services | \$2,493 |
| | | | (Task Order – Coating assessment on LADOTD US190 Krotz Springs Bridge) (\$ reflects amount invoiced; not yet paid) | \$12,772 |

* The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. <u>**Do not**</u> round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, please place N/A in the remaining unpaid balance column. Note: All firms must be represented in this table. Leaving the "remaining unpaid balance" column blank is not acceptable.
20. Certifications/Licenses (MPRs #1, #2 and #3):

U.S. Department of Transportation Federal Highway Administration



Durk H. Krone, P.E.

has satisfactorily completed training in Safety Inspection of In-Service Bridges NUL COLLEGE NO. 13055

conducted by

Michael Baker Jr., Inc.

Location: Virginia Department of Transportation Hours of instruction: 80 Richmond, Virginia

Date: May 10-21, 1999

alyontu P. Col. p. P.E. National Highway Institute

Continuing Education Units: 6.0



National Highway Institute Certificate of Training



18

and and

Durk H. Krone, P.E.

has participated in

FHWA-NHI-130078: Fracture Critical Inspection Techniques for Steel Bridges

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Date: August 14-17, 2007 Location: Mobile, Alabama Hours of Instruction:

U.S. Department of Transportation Federal Highway Administration National Highway Institute



Certificate of Training

Durk H. Krone, P.E.

FHWA-NHI-130053 Bridge Inspection Refresher Training

Texas Department of Transportation

Date: September 28 - October 1, 2021 Location: Virtual Delivery, TX Hours of Instruction: 18

Shandon Richardson

Instructor Instructor

Local Coordinator Thomas Harman, Director National Highway Institute





Fold Here









National Highway Institute *Certificate of Training*

Craig Jacob

has participated in

Safety Inspection of In-Service Bridges

hosted by Kentucky Transportation Cabinet

Location. Frankfort, Kentucky

Mores

Director, National Highway Institute

Federal Highway Administration

September 12-23, 2005

Nyele

1. Ly

Dates

Hours of instruction: 73.0

Medica Condinas Director, Office of Professional and Consorate Development Federal Highway Administration



National Highway Institute Certificate of Training



Craig Jacob

has participated in FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Indiana Department of Transportation

 Date:
 Nov. 6-9, 2017

 Location:
 Indianapolis, Indiana

Hours of Instruction:

Steven Junes

Instruc

Local Coordi Value Bugy

25

Valerie Briggs, Director National Highway Institute



National Highway Institute Certificate of Training

Craig Jacob

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

housed by Indiana Department of Transportation

Date: May 10-12, 2022 Location: Indianapolis, IN

Instructo

Hours of Instruction: 18

Sharonk She Local Coordinato

Thomas Harman Thomas Harman, Director National Highway Institute



License Look Up

8/6/2024 8:48 AM

Craig Edward Jacob

| License Number | PE.68866 | |
|------------------------------|-------------------------------|--|
| Status | Active | |
| Sub-Status | | |
| Board | Engineers and Surveyors Board | |
| License Type | Professional Engineer | |
| Compact/Multi-State Eligible | | |
| License Issue Date | 02/12/2004 | |
| License Expiration Date | 12/31/2025 | |
| License Effective Date | 01/01/2024 | |
| City | Mason | |
| State | OH | |
| Country | United States | |
| Board Action | No | |

Current date & time: 8/6/2024 8:48 AM

Disclaimer: The Joint Commission and NCQA consider on-line status information as fulfilling the primary source verification requirement for verification of licensure in compliance with their respective credentialing standards.



9643 Brookline Avenue: Suite 121 + Baton Rouge, Louisiana 70809-1/33 + (225) 925-6291 + Fax (225) 925-6227 + www.lapels.com

20. Certifications/Licenses (MPR #4):



National Highway Institute

Certificate of Training

CODY SHIELDS

FHWA-NHI-130056 Safety Inspection of In-Service Bridges for Professional Engineers

hosted by

Date: May 13-17, 2019 Location: Baton Rouge, LA

Hours of Instruction: 34

Willie & Think FF Instructor

Paulallh PE

Helison H. Landry Local Coordinator Michael Danies

Michael Davies, Director National Highway Institute







Cody Shields

hasparticipated in

FHWA-NHI-130053 Bridge Inspection Refresher Training (SNBI) basted by

hosted by

Kansas Department of Transportation

Date: February 13-15, 2024 Location: Topeka, KS Hours of Instruction: 22

light Attainors Stacey J. Caston

Instructor

Stacey J. Caston, Director National Highway Institute

LOUISIANA PROFESSIONAL **ENGINEERING & LAND SURVEYING BOARD** (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com Mr. Cody Earl Shields License/Certificate Type - Number **Expiration Date** PE.0044457 09/30/2026 Status: Active

Date:

Location:



National Highway Institute

January 3 - 14, 2011

Greg A. Kolle, P.E.

Walten & Diverner PE

Sacramento, California

Certificate of Training

has participated in

Safety Inspection of In-Service Bridges

hosted by

Caltrans - Structure Maintenance & Investigations and Michael Baker Jr., Inc.

Hours of Instruction:

Judi J. Wong

Richard Barnaby, Director National Highway Institute

Local Coordinator lans-

60 hours (10 days) Course # 130055

Judi L Wong

-

Edward M. Cinadr



National Highway Institute nhi national highway Certificate of Training

Edward M. Cinadr

has norticipated in FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Nebraska LTAP

Date: February 2 - 4, 2021 Virtual Delivery, NE Location:

Digitally signed by Callein A. MacDougol, P.E. Date: 2021.02.08 14 41 55 -00100 lab A Mongt to

Instructor hallen of Randall Leonard, P.E. Date: 2021 02:05 15:25:49-08:007

Instructor

Phyllis Schwab Local Coordinator Thomas Harman Thomas Harman, Director National Highway Institute

Hours of Instruction: 18





National Highway Institute Certificate of Training



Ed Cinadr

has participated in

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Date: February 1 - 4, 2011 Location: Portland, Oregon

Local Coordinator Richard Barnaby, Director National Highway Institute

Hours of Instruction: 20



Page 151 of 186

20. Certifications/Licenses (MPR #4):



National Highway Institute Certificate of Training Brendan J. Prendeville

has satisfactorily completed training in Safety Inspection of In-Service Bridges

Hosted by

Texas Department of Transportation

Location: Austin, TX

Date: March 7-18, 2005

Continuing Education Units: 6.0

Hours of Instruction: 72



National Highway Institute



Federal His

Brendan Prendeville

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Date: February 1 - 4, 2011 Location: Portland, Oregon

Local Coordinator mar 1 Richard Barnaby, Director National Highway Institute

Hours of Instruction: 20



National Highway Institute Certificate of Training



Brendan Prendeville

hasparticipated in FHWA-NHI-130053 Bridge Inspection Refresher Training

> hosted by Nebraska LTAP

Date: February 2 - 4, 2021 Location: Virtual Delivery, NE

Jake A Me mathing the Digitally signed by Callen A MacDougall PE Date: 2021.02.08 14:38:38-00'00'

Instructor PodULA-d Randall Leonard, P.E Instructor Hours of Instruction: 18

Phyllis Schwab

Local Coordinator Thomas Harman

Thomas Harman, Director National Highway Institute



20. Certifications/Licenses (MPR #4):



20. Certifications/Licenses (MPR #4):

Date:



National Highway Institute

Certificate of Training

Andrew Goodrich

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

April 13-24, 2015

Location: South Charleston, WV

BridgeValley Community and Technical College





2

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute Certificate of Training



Andrew Goodrich

hasparticiputed in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hassed by West Virginia Department of Transportation

Date: October 8-10, 2019 Location: Weston, WV

Hours of Instruction: 18

Michael Michael Davies, Director

Instructor

National Highway Institute

West Virginia State Board of **Registration for Professional Engineers**

| del sili. Decena | |
|--------------------------------|---|
| Name: | ANDREW SCOTT GOODRICH |
| WV Professional Engineer: | PE License Number: 023343 |
| | PE License Status: Active |
| | PE Issue Date: 12/18/2018 |
| | PE Expiration Date: 12/31/2024 |
| Continuing Education Claim: | Qualifying Hours from Last Renewal or Reinstatement: 45.00 |
| | Carryover Hours for Next Renewal: 15.00 |
| | Last Renewal or Reinstatement Date*: 12/13/2022 |
| WV Engineer Intern: | El Certification Number: 9923 |
| | El Issue Date: 07/01/2014 |
| Primary Address of Record: | 2629 PLEASANT VIEW RIDGE ROAD MILLWOOD, WV 25262 |
| Primary Employer of Record: | BURGESS & NIPLE, INC. |
| | This date reflects the most recent license renewal (or reinstalament) date for this licenses. Continuing education hours earned prior to this date may not be used for future renewals. |
| | This dala was retrieved on 8/2/2024. |

U.S. Department of Transportation Federal Highway Administration

2

National Highway Institute Certificate of Training

Hours of Instruction: 67

Value Bugy

National Highway Institute

Valerie Briggs, Director



Andrew Goodrich

has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges hosted by

West Virginia Department of Transportation

Date: December 04-07, 2018 Location: Charleston, WV

Hours of Instruction: 25

Local Coordina

Instructo

Value Bugy Valerie Briggs, Director National Highway Institute



20. Certifications/Licenses (MPR #4):



National Highway Institute



James Appler

FHWA-NHI-130053 Bridge Inspection Refresher Training

bashed by Collins Engineers, Inc.

March 16-18, 2021 Date: Virtual Delivery, IL Location:

Hours of Instruction: 18

Digitally signed by Callein # ModBougal IF F Date 2021 00:29 17,25,25 -0400 Sale & Mond-1 Instructor Hubbard 8021 03 22 06 25 33 Some Weekhand

Instructor

Drew Garceau Local Coordinator Thomas Harman Thomas Harman, Director National Highway Institute



National Highway Institute Certificate of Training

James Appler

has participated in

FHWA-NHI-380078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Wallace Montgomerv

Date: October 08-11, 2019 Location: Hunt Valley, MD

Hours of Instruction: 25

Muchae Michael Davies, J.E. Director, National Highway Institute







James A. Appler

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by **Collins Engineers**, Inc.

Date: August 10-21, 2015 Location: Chicago, IL

guy R dang PE

Downis R. Bough

Value Valerie Briggs, Director National Highway Institute

Local Coord

Hours of Instruction: 67 Hours



20. Certifications/Licenses (MPR #4):



National Highway Institute

Certificate of Training



Jonathan McGormley

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

Parsons Brinckerhoff | Chicago Transit Authority

Date: August 10-21, 2009 Location: Chicago, IL

Hours of Instruction: 60

mitol

Richard Barnaby, Director



National Highway Institute **Certificate of Training**



Jonathan McGormley has participated in NHI-FHWA-130078-Fracture Critical Inspection Techniques for Steel Bridges

hosted by Wiss, Janney, Elstner Associates, Inc.

Date: November 5 - 7, 2013 Location: Northbrook, Illin





National Highway Institute



Certificate of Training

Jonathan C. McGormley has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

bosted by Boston Society of Civil Engineers Section/ASCE

October 1-3, 2019 Date: Location: Boston, MA

Hours of Instruction: 18

Ruhard F. Keenen

Local Coordinato

Michael h Michael Davies, P.E. Director, National Highway Institute

LOUISIANA PROFESSIONAL **ENGINEERING & LAND SURVEYING BOARD** (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com Mr. Jonathan C. McGormley License/Certificate Type - Number **Expiration Date** PE.0043912 03/31/2026 Status: Active



National Highway Institute

Certificate of Training

Steve Lauer has participated in

FHWA - NHI - COURSE 130055

Safety Inspection of In-Service Bridges

Structural Engineers Assn. of Illinois/SEI – IL Chapter

Hours of Instruction: 60

Local Coordinator

12/10-5

Richard Barnaby, Director National Highway Institute

Jaca Krokn

Hours of Instruction: 21 Hours

Local Coordina

10000

Richard Barnaby, Director National Highway Institute

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- nain

Date: May 2-13, 2011 Location: Chicago, IL

cui Mom

William R Marduer



National Highway Institute

Certificate of Training

Steve Lauer

NHI-FHWA-130078-Fracture Critical Inspection Techniques for Steel Bridges

Wiss, Janney, Elstner Associates, Inc.

Date: November 5 - 7, 2013 Location: Northbrook, Illinois

Instructor





National Highway Institute Certificate of Training

Steven Lauer

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by Indiana Department of Transportation

Date: December 1-4, 2020 Location: Virtual Delivery, MI

- Digitally signed by Calen A MacDougal, P.E Dile: 222112.16 13.16.04 -05100

Instructor Finn K. Hubbard 2020 12 09 08 23 05

tale A Mongo

Instructor

William Dittrich

Hours of Instruction: 18

Thomas Harman

Thomas Harman, Director National Highway Institute

Illinois Department of Financial and Professional Regulation

national highway

Lookup Detail View

Contact Contact Information

| Name | City/State/Zip | DBA / AKA |
|-----------------------|----------------------|-----------|
| STEVEN LAURENCE LAUER | Northbrook, IL 60062 | |

License

| License Number | Description | Status | First Effective Date | Effective Date | Expiration Date | Ever Disciplined |
|----------------|--------------------------------|--------|----------------------|----------------|-----------------|------------------|
| 062068057 | LICENSED PROFESSIONAL ENGINEER | ACTIVE | 12/30/2015 | 09/02/2023 | 11/30/2025 | N |

Other Licenses

| License Number | Description | Status | First Effective Date | Effective Date | Expiration Date | Ever Disciplined |
|----------------|------------------------------|--------|----------------------|----------------|-----------------|------------------|
| 081007838 | LICENSED STRUCTURAL ENGINEER | ACTIVE | 06/17/2016 | 09/07/2022 | 11/30/2024 | N |

Generated on: 8/2/2024 4:29:11 PM



20. Certifications/Licenses (MPR #4):



National Highway Institute



Curtis J. Schroeder

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by HQ Installation Management Command

Date: 9-20 July 2012 Location:

Fort Leonard Wood, MO

erando I. Veli Local Coordinator 1201G **Richard Barnaby**, Director ational Highway Institute

NH

Hours of Instruction: 60



National Highway Institute Certificate of Training

Curtis Schroeder

has participated in FHWA-NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges hosted by

Bi-State Development Agency

February 18-21, 2020 Date: Location: St. Louis, MO

Hours of Instruction: 25

are Alat Brain

Instructor

anne

Michael Do Michael Davies, P.E. Director, National Highway Institute



2

U.S. Department

of Transportation

Federal Highway Administration

National Highway Institute Certificate of Training



Curtis Schroeder

hasparticipated in FHWA-NHI-130053 Bridge Inspection Refresher Training (SNBD

> hoviest by **Collins Engineers, Inc.**

June 11, 2024 - June 13, 2024 Date: Chicago, IL Location:

UMA Buan Instructor

22 Hours Hours of Instruction:

Dung

Local Coordinator

Stacey J. Caston Stacey J. Caston, Director National Highway Institute

Illinois Department of Financial and Professional Regulation

Lookup Detail View

Contact

| 2 | | | | |
|---|------------------------|----------------------|---------|--|
| | Name | City/State/Zip | DBA/AKA | |
| [| CURTIS JAMES SCHROEDER | Northbrook, IL 60062 | | |

License

| License Number | Description | Status | First Effective Date | Effective Date | Expiration Date | Ever Disciplined |
|----------------|------------------------------|--------|----------------------|----------------|-----------------|------------------|
| 081008638 | LICENSED STRUCTURAL ENGINEER | ACTIVE | 06/14/2021 | 11/02/2022 | 11/30/2024 | N |

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| U.S. Department of Transportation Federal Highway Administration | C | National High Certificate | away Institute of Training | highway Institute | |
|---|------------------------------|------------------------------|---|----------------------|--|
| | | Lisa I | Brown | | |
| | | has Successful | ly Completed | | |
| | FHWA- | NHI-130055 Safety In | nspection of In-Service | Bridges | |
| | bosted by | | | | |
| | DB Sterlin Consultants, Inc. | | | | |
| | Date: | June 20-July 1, 2022 | Hours of Instruction: | | |
| | Location: | Chicago, IL | 67 | | |
| | Instructor | Undburn | John a. Marine Local Coordinator | M | |
| | guy ? | Rang PE | Thomas Harm | an | |
| | Instructor | 0 | Thomas Harman, Director National Highway Institute | | |

20. Certifications/Licenses (MPR #5):



National Highway Institute Certificate of Training

WILL NOWLIN

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges hosted by

LA DOTD/LTRC

Date; December 4-15, 2017 Location: Baton Rouge, LA

Hours of Instruction: 67

Juzy Rolang PE Instructor

Alloon H. Landry Local Coordinator

Value Buop

Valerie Briggs, Director National Highway Institute

Fature Martens, PE

Instructor



National Highway Institute



Certificate of Training

Will Nowlin

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training (SNBI)

hosted by

Kansas Department of Transportation

Date: February 13-15, 2024 Location: Topeka, KS

Hours of Instruction: 22

Tan

ludeus (thingor Local Coordinato

Instructor

Stacey J. Caston Stacey J. Caston, Director National Highway Institute



National Highway Institute Certificate of Training

Benjamin Medlin

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

AECOM

Date: March 20-31, 2017 Location: Raleigh, NC

Hours of Instruction: 67

Juy R Lang PE

Joh Wockey

Kh H. Glh 1E Ideal Coordinator Value Buops

Valerie Briggs, Director National Highway Institute



Mich 2 Cm

Thomas Harman

Thomas Harman, Director National Highway Institute

2

allen

20. Certifications/Licenses (MPR #5):



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Certifies

Robert Lanterman, PCS

Has fulfilled the requirements for recognition as an SSPC <u>PROTECTIVE COATINGS SPECIALIST</u>

Valid Through December 31, 2027

2015-820-136 Certification Number

August 20, 2015 Original Date Issued

Helena Sulinger **Executive Director AMPP**







Certifies Jayson Helsel, PCS

Has fulfilled the requirements for recognition as an SSPC <u>PROTECTIVE COATINGS SPECIALIST</u>

Valid Through December 31, 2027

2011-930-152 Certification Number

September 30, 2011 Original Date Issued



20. Certifications/Licenses (MPR #7):





BE IT KNOWN THAT John Kinsey

has met the established and published Requirements for Certification by ASNT Certification Services LLC. in the following Nondestructive Testing Method:

NDT Level III Magnetic Particle Testing October 26, 2023

Issue Date







December 31, 2028

Expiration Date

ASNT NDT Level 17 exams are developed and maintained in ac creditation Board (ANAB) + SASIC, ET, MT, PT, RY, UT, and VT, Thi nor to the expertise date. This certificate shall be yeaded on expression certification on Averty or by contaction ASNI Certification Services (1)





BE IT KNOWN THAT John Kinsey

has met the established and published Requirements for Certification by ASNT Certification Services LLC. in the following Nondestructive Testing Method:

NDT Level III Radiographic Testing



All (d) L2011 Parts and provide the RTUT, and Willins with others in expectively ASB Confliction Services LLC. Since official which if ASB Confliction catcher Rear 044(4): SASP, CENTRUT, PRIUT, and Willins with others in expectively ASB Confliction or your testing 450°C but float the to a security and prior to be explicit on date. To scandificate the Line verifies on versions confliction or your testing 450°C but float the Services L.





BE IT KNOWN THAT John Kinsey

has met the established and published Requirements for Certification by ASNT Certification Services LLC. in the following Nondestructive Testing Method:

NDT Level III Liquid Penetrant Testing October 26, 2023

Issue Date



John 9 Juney ASNT Certification Services LLC. President

on www.asnfoertification.org/verify or by co



INL fication Management Committee Chair

LASNERDE Lessel is example and material and in accordance in (in SSEE) 1024 guide lines for certification of session. The falsoning scample are currently accorded by The ANS Net one screditation Based (ANAS) - BAS D. Et M. P., At U.C. and M.T. This realized as the magnetic falson (ASAT Certification Services LLC) is pre-trained by the ANS Net one screen (accorded by T





BE IT KNOWN THAT John Kinsey

has met the established and published Requirements for Certification by ASNT Certification Services LLC. in the following Nondestructive Testing Method:

NDT Level III Ultrasonic Testing October 26, 2023



reditation Board (AKAB) - BASIC, ET, MT, PT, RT, UT, and VT. IN scientificate is the p First to revocation prior to the expiration date. This certificate shall be verified o

Issue Date m 9 Juney ASNT Certification

Services LLC. President



December 31, 2028

Expiration Date

Committee Chair

wing exams are currently accredited by The ANSI Natio

property of ASNT Certification Services LLC. Is not official without ASNT Certification Services. LC's loop and it





TRC Engineers, Inc.

| ISO/IEC 17024 Personnel Certification Program | | | | |
|---|-------------------------------|-----------------------------|--------------------------------|--------------------|
| #0644 | SNT Certifi | cation Ser | vices LLC | 7 |
| 1. | | Be it known that | | |
| | Rohe | rt D Gess | el | |
| Has mot the est | ablished and published Requir | ements for Certification | VI by ASNT Certification Se | ervices LLC as |
| has met the est | ablished and published Requir | DT I ovol III | by ASIAT Certification Se | ervices LLC, as |
| | In the following | Nondestructive Testing | Methods: | |
| | Method | Issue Date | Expiration Date | |
| Scallon South | Magnetic Particle Testing | 11/21 | 11/26 | |
| ASNT | Ultrasonic Testing | 11/21 | 11/26 | |
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| 4568 | | Veres | John 9 | 7 Juney |
| | | action Management Committee | ASNT Certification | Services LLC Presi |



20. Certifications/Licenses (MPR #8):



National Highway Institute

Certificate of Training

Beau Kamrath

has Successfully Completed

Bridge Inspection Refresher Training

New Hampshire Department of Transportation

Date: February 22-24, 2022 Location: Concord, NH

Hours of Instruction: 18

Instructo Instruct

Paul Add Local Coordinator Thomas Harman Director National Highway Institute



National Highway Institute

Certificate of Training

Beau Kamrath



has participated in FHWA-NHI-130055 Safety Inspection of In-Service Bridges

Kentucky Transportation Cabinet

Date: April 7-18, 2014 Location: Frankfort, Kentucky

Hours of Instruction: 67.0

39 unbrack Limble

Stephanie Dun Local Coordinator

> Richard Barnaby, Director National Highway Institute





National Highway Institute Certificate of Training

Beau Kamrath

has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by Clark Nexsen

Date: November 28-December 1, 2017 Hours of Instruction: 25

Location: Virginia Beach, VA Instructo

Steven Inilles



Valerie Briggs, Director National Highway Institute



National Highway Institute Certificate of Training

Beau Kamrath

has participated in

FHWA-NHI-130091 Undewater Bridge Inspection

hosted by Crofton Diving Corporation

March 29-31, 2018 Portsmouth, VA

Hours of Instruction:24

Local Coordinato

C.



Date:

Location:

Valence Bugy Valerie Briggs, Director National Highway Institute



NHI

TRC Engineers, Inc.



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20. Certifications/Licenses (MPR #8):



Disciplinary Action?:

ADCI

20. Certifications/Licenses (MPR #8): 0 nhi hatonul highway National Highway Institute National Highway Institute U.S. Department of Transportation Certificate of Training U.S. Department of Transportation Federal Highway Administration Certificate of Training Federal Highwa Matthew Rogers Matt Rogers has Successfully Completed has participated in FHWA-NHI-130053 Bridge Inspection Refresher Training FHWA-NHI-130055 Safety Inspection of In-Service Bridges Hosned by hasted he Kentucky Transportation Cabinet Terracon Consultants, Inc. Hours of Instruction: 18 Date: January 17-19, 2023 Date: January 28 - February 8, 2019 Hours of Instruction 57 Location Louisville, KY Location: Cincinnati, OH Donne P.E. Dardner PE Thomas Harman Velice Burger Thomas Harman, Director National Highway Institute Valerie Briggs, Direr National Highway Institut National Highway Institute Certificate of Training NATIONAL HIGHWAY INSTITUTE Matt Rogers has participated in FHWA-NHI-130091-Underwater Bridge Inspection hosted by ConnDOT Date: August 4-7, 2015 Hours of Instruction: 27 Location: Newington, CT Name: Matthew Rogers Davion Wele Professional Engineer: Number: 36345 Local Coordinator Value Bugy Valerie Briggs, Director National Highway Institute **Professional Land Surveyor:** Address of Record: 2749 Mable Ln

0

Expires 07/29/2025 SURFACE-SUPPLIED AIR DIVING SUPERVISOR MATTHEW ORR ROGERS I.D. 546987619 **Commercial Diver Certification Card** National Highway Institute NH Certificate of Training Matthew Rogers has participated in FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges hosted h New Jersey Department of Transportation October 2-5, 2018 Hours of Instruction: 25 Trenton NI DITit Valerie Burgy

Association of Diving Contractors

International

Cert. # 61534

Search for Kentucky Licensees

Valerie Briggs, Director

National Highway Institute

Status: Current Issue Date: 02/17/2021 Expiration Date: 06/30/2026

2

U.S. Department of Transportation

Federal Highway

Date:

Location

LEXINGTON, KY 40511

Disciplinary Action?:

TRC Engineers, Inc.

Responsible Charge For:

20. Certifications/Licenses (MPR #8):



National Highway Institute Certificate of Training

Andrew A. Baldwin

hasparticipated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by Virginia Department of Transportation

Date: December 02-13, 2019 Location: Chester, VA

Hours of Instruction: 67

Danis L. Sough - Pie. Instructo

William R. Hudane, PE. Instructor

Local Coordinate Mulael h Michael Davies, D.E. Director, National Highway Institute



2 U.S. Department of Transportation Federal Highway Administration





Andrew Baldwin

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Marine Solutions, Inc.

Date: October 04-07, 2021 Location: Nicholasville, KY

Round E. Fin Local Coordinator

Thomas Harman Thomas Harman, Director

Hours of Instruction: 74

National Highway Institute

Association of Diving Contractors International



Cert. # 66052 Expires 05/09/2028

SURFACE-SUPPLIED AIR DIVER ANDREW BALDWIN I.D. 9247 **Commercial Diver Certification Card**

ADC



2

U.S. Department of Transportation

Federal Highway Administration





TRC Engineers, Inc.

20. Certifications/Licenses (MPR #9):



National Highway Institute



Caroline Knapp

Certificate of Training

has Successfully Completed

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

Collins Engineers, Inc.

Date:March 14-25, 2022Location:Denver, CO

Hours of Instruction: 67

Instructor Instructo

Dur Sam-Local Coordinator

Thomas Harman Thomas Harman, Director

National Ilighway Institute



National Highway Institute



Certificate of Training

has participated in

Caroline Knapp

FHWA-NHI-130091 Underwater Bridge Inspection

housed by Maine Department of Transportation

Date: October 23-26, 2023 Location: Fairfield, ME

Hours of Instruction: 24

Kould W. Turke Local Coordinator

Instructor

Stacey J. Caston Stacey J. Caston, Director National Highway Institute





20. Certifications/Licenses (MPR #9):



National Highway Institute Certificate of Training

Callen Papineau

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by Collins Engineers, Inc.

 Date:
 August 23, 2021-September 3, 2021
 Hours of Instruction:
 60 Hours

 Location:
 Chicago, IL.

Munn

Kun

Instru

Due farm

Local Coordinato Thomas Harman Thomas Harman, Director National Highway Institute

U.S. Department of Transportation Federal Highway Administration

National Highway Institute Certificate of Training



Callen Papineau

hasparticipated in
FHWA-NHI-130091 Underwater Bridge Inspection

hosted by Collins Engineers, Inc.

Date: June 06-09, 2022 Location: Milwaukee, WI

Jeff O'Connor. P.E.

Ryan Breen, P.E.

Instructor

Hours of Instruction:24

Drew Garceau, P.E., CWI Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute



nhi national

U.S. Department of Transportation Federal Highway Administration

National Highway Institute Certificate of Training



Desmond Castillo

hasparticipated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

W.J. Castle, P.E. & Associates, P.C.

Date:February 13-16, 2023Location:Westampton, NJ

Hours of Instruction: 24

Instructor

Instructor

Debras a zelens Local Coordinator

Thomas Harman

Thomas Harman, Director National Highway Institute





National Highway Institute Certificate of Training



Caleb Klein

FHWA-NHI-130091 Underwater Bridge Inspection

has participated in

Pickering, Corts & Summerson, Inc.

Date: March 18-21, 2024 Location: Ewing, NJ Hours of Instruction: 24

Local Coordinato Stacey I. Caston

Stacey J. Caston, Director National Highway Institute





LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/2/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)

has the following information on file:

Mr. Bryan Turner Bunch 1409 Worsham Drive Zachary, Louisiana 70791



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20. Certifications/Licenses (MPR #11):



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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has the following information on file:

Mr. Paul Brian Rossini 525 Louisiana Avenue Shreveport, Louisiana 71101



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20. Certifications/Licenses (MPR #11):



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/2/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)

has the following information on file:

Mr. Michael Joseph King 8643 Main Street Zachary, Louisiana 70791



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TRC

20. Certifications/Licenses:



20. Certifications/Licenses:



20. Certifications/Licenses:



American Traffic Safety Services Association ATSSA.com



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

N/A

TRC

22. Sub-consultant information:

| Firm Name (name must match as registered with Louisiana's Secretary of State) | Address | Point of Contact and email address | Phone Number |
|---|---|--|--|
| Burgess & Niple, Inc. | 3867 Plaza Tower Dr. Baton Rouge, LA 70816 | Edward Cinadr Ed.Cinadr@BurgessNiple.com | Office: (614) 459-7272, ext. 1480 Cell: (614) 296-0522 |
| Collins Engineers South, Incorporated | 9448 Brookline Avenue Baton Rouge, LA 70809 | Michael Schneider mschneider@collinsenger.com | (347) 385-8690 |
| Wiss, Janney, Elstner Associates, Inc. | 330 Pfingsten Road, Northbrook, IL 60062 | John Williams jwilliams@wje.com | (215) 340-5830 |
| NTB Associates, Inc. | 525 Louisiana Ave., Shreveport, LA 71101 | Amy K. Schulze <u>aschulze@ntbainc.com</u> | (225) 751-4002 |
| Urban Systems Associates, Inc. dba Urban Systems, Inc. | 2000 Tulane Ave. Suite 200 New Orleans, LA 70112 | Alison Catarella Michel acmichel@urbansystems.com | (504) 569-3958 |
| KTA-Tator, Inc. | 145 Enterprise Drive Pittsburgh, PA 15275 | Robert Lanterman rlanterman@kta.com | (412) 722-0745 |

TRC

23. Location:

N/A