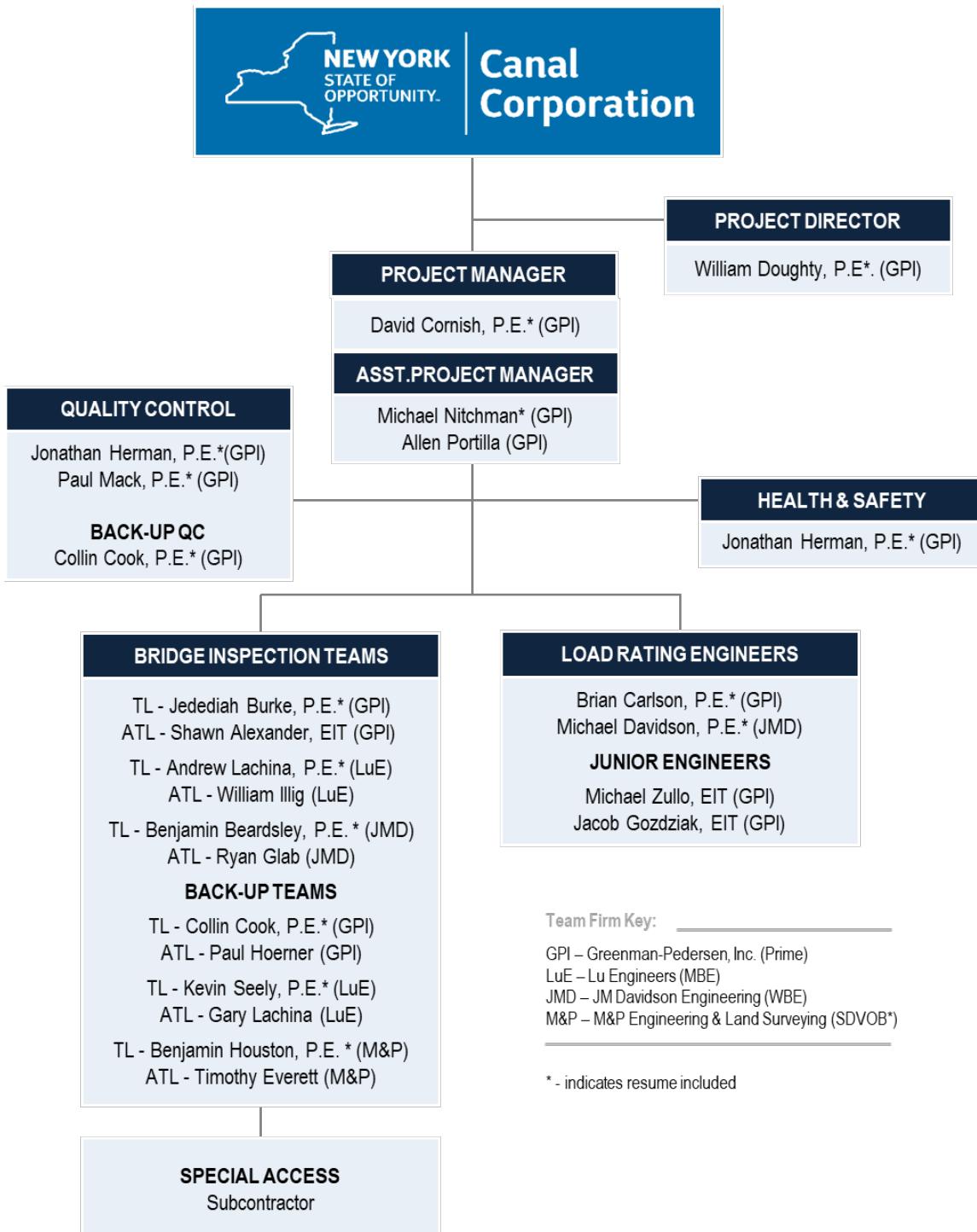


7.4 Project Team / Staffing

A. Organization Chart



B. Resumes

Resumes and certification for team members, as indicated above, have been included as an attachment at the end of this section.

C. Description of Auxiliary Services

GPI has four local offices (Buffalo, Cheektowaga, Rochester, and Albany) located along the New York State Canal system. This proximity and density allows GPI to quickly respond and develop solutions to a wide range of challenges. Our upstate New York offices provide a myriad of services locally, but the real power of GPI comes from its 1,700 professionals working in offices located throughout the eastern United States. Our local offices can easily access these company-wide resources and abilities to bring the full weight of GPI to bear on developing engineered solutions for the NYSCC.

The table below presents a sample of services provided by GPI and notes if they are provided locally (Upstate NY), regionally (Northeast / Mid-Atlantic) or outside the region.

Bridge Engineering / Inspection / Preservation	Local
Building Systems (MEPS)	Local
Civil / Site Engineering	Local
Construction Inspection	Local
Corrosion Control / Protective Coatings	Local
Dam Safety Services	Regional
Environmental	Local
Geospatial	Outside
GIS / Mapping / Land Surveying	Local
Highways	Local
Intelligent Transportation Systems	Local
Marine and Coastal Engineering	Outside
Right of Way Acquisition	Local
Traffic & Safety	Local
Underwater Construction	Outside
Underwater Inspection & Investigation	Local
Water & Wastewater	Local

GPI embraces new technology in our varied fields of operation. We have been early adopters of using non-destructive evaluation methods, aerial drones, robots, underwater autonomous vehicles, and advanced imaging technologies to provide efficient and effective services to our clients, including the NYSCC. We continue to investigate new technologies such as machine learning and artificial intelligence to find ways to implement them in developing innovative solutions to our clients' needs.

D. Assurance of Certifications

GPI assures that we, and our subconsultant partner firms, maintain current registration with the New York State Department of State and the New York State Department of Education. The proposed firms are authorized to provide the proposed professional services in the state of New York. Further, we can also assure that the minority-owned, women-owned, and service-disabled veteran-owned firms included on GPI's team have proper and active business certifications. GPI can supply these certifications upon request.

All personnel assigned to this project team have met or exceeded the minimum education, training and licensure requirements for their respective positions. Required documentation of licensure and specific training / certifications have been included with the resumes at the end of this section.

David T. Cornish, P.E.

Senior Structural Engineer



PROPOSED PROJECT ASSIGNMENT

Project Manager
Team Leader / Diver

EDUCATION

BS / 2008 / Civil Engineering

REGISTRATION

2015 / Prof. Eng. / NY 095073
2019 / Prof. Eng. / MI 6201069125
2019 / Prof. Eng. / FL PE88258

YEARS WITH FIRM 9
TOTAL YEARS EXPERIENCE 16

CERTIFICATION / TRAINING

2019 / FHWA-NHI Certified Instructor
2019 / Lock Out/Tag Out
2018 / NHI 130056 Safety Inspection of In-Service Bridges for Professional Engineers (40-Hr.)
2017 / FHWA-NHI 130087 Inspection & Maintenance of Ancillary Highway Structures
2017 / TDI Nitrox Diver (#394265); PADI Enriched Air Nitrox Diving
2015 / OSHA 10 Hour Construction Safety
2015 / Emergency Oxygen Provider (O2)
2012 / Confined Space Entry
2011 / Fall Protection Training
2010 / ADCI Commercial Surface Supplied Air Diver/Tender
2010 / PADI Enriched Air Diver
2009 / FHWA-NHI 130055 Safety Inspection of In-Service Bridges
2009 / FHWA-NHI 130091 Underwater Bridge Inspection
2008 / PADI Open Water Diver

Professional Profile

Mr. Cornish has over 15 years of experience related to above-water / routine and underwater structural inspections for highway and marine structures as a Project Manager, Quality Control Engineer, Team Leader and Diver. His project experience includes inspections of bridges and culverts, overhead sign structures, piers / wharfs, canal water control and navigation structures, and Aids-to-Navigation (ATON) structures. His experience also includes load rating analysis of bridges and overhead sign structures, analysis and design of support assemblies for bridge rehabilitation and erection, the design of culverts, and bridge rehabilitation.

Mr. Cornish is a commercially certified (ADCI) diver trained in scuba and surface-supplied air equipment.

Representative Project Experience

NYSCC Systemwide Bridge Inspection and Load Rating, Various Locations, New York; 2022 – 2024. Project Manager. GPI was the Prime Consultant responsible for performing structural condition inspection and load rating services on ~100 pedestrian and vehicle bridges located throughout the NYS Canal System. As the Project Manager, Mr. Cornish was responsible for client service, managing subconsultant partners, and tracking the project schedule and budget. *Client: New York State Canal Corporation.*

NYSCC Western Division Structural Inspections; 2020 - 2022. Project Manager / Team Leader. GPI was the Prime Consultant responsible for the structural inspection of ~450 water control and navigation structures (locks, dams, sluice gates, terminals, retaining walls, guard gates, waste weirs and culverts). Dave's Project Management responsibilities included client service, subconsultant coordination, budget and progress tracking, invoice preparation, inspection scheduling and coordination, and safety plan development. Dave's Team Leader responsibilities included on-site, above and below water structural condition assessment, report preparation and repair recommendation. Work was performed in the CIMS system. *Client: New York State Canal Corporation.*

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2022 – present. Team Leader. GPI is the Prime Consultant responsible for inspection and load rating of ~650 bridges per year. GPI is responsible for project management, access planning, field inspection, quality control, and load rating. As a Team Leader, Mr. Cornish is responsible for leading an inspection team, assessing structural conditions, preparing reports and updating inventory records in the SMS database. *Client: New York State Dept. of Transportation.*

Underwater Inspection of Bridge 230021001 - MD 90 over Assawoman Bay, Maryland; October 2023 – Inspection Team Leader. MD 90 over Assawoman Bay is a 7,580 foot long, 139 span causeway bridge located in Ocean City, Maryland. As the Team Leader, Mr. Cornish led the inspection effort which included a complete underwater inspection (full Level 1 and 10% Level 2 inspection) of all submerged components and collection of sounding data for comparison to previous data. Mr. Cornish performed the quality control review of the inspection report. *Client: Maryland State Highway Administration.*

National Highway Institute Course 130091 – Underwater Bridge Inspection; 2018-present. Certified Instructor. GPI is currently under contract by the FHWA to instruct several courses related to bridge inspection. Mr Cornish is a Lead Instructor for Course 130087 – Inspection and Maintenance of Ancillary Highway Structures and Course 130091 – Underwater Bridge Inspection. Satisfactory completion of course 130091 fulfills current NBIS requirements for all inspectors performing underwater bridge inspections. Mr. Cornish was identified as an “Instructor of Excellence” for the year of 2019 based on evaluations from class participants. *Client: Federal Highway Administration (FHWA).*

South Florida Water Management District, Structure Inspection Program – Underwater Component; 2017 - 2022 Project Engineer. GPI was responsible for performing underwater inspections of water control structures for the District. The structures include pump stations, spillways, gated culverts, weirs and boat locks. The observations, recommendations for repair and causes are input into the District's database to develop reports. All inspections are video recorded, which is also a deliverable. Task Orders included 23 structures for FY17-18; 36 structures for FY18-19 (which included 11 topside structural and civil inspections); and 38 structures for FY19-20 (which included 32 topside structural and civil inspections). Mr. Cornish's responsibilities included report preparation. *Client: South Florida Water Management District*

NYSDOT Upstate Overhead Sign Inspection Program (8 contracts), Various Locations, New York; 2008 – 2024. QC Engineer / Team Leader / Assistant Team Leader / Load Rating Engineer. GPI is the Prime Consultant responsible for the annual structural condition inspection of approximately 500 overhead sign and high-mast lighting structures, located throughout the NYSDOT upstate Regions. After successfully completing the 2015-16, 2017-18, and 2019-20 term, GPI was again re-selected as the Prime Consultant for the 2021-24 term. As a Quality Control Engineer, Mr. Cornish performs quality reviews on field procedures and inspection reports. As a Team leader, he leads an inspection team and documents observed conditions in the EAM/SMS database. As a Load Rating Engineer, he analyzes deteriorated structural elements to determine their safe load carrying capacity. *Client: New York State Department of Transportation.*

Below-Water Inspection of Canal Structures (3 contracts), Systemwide, New York; 2008 - 2009, 2015 - 2016, 2017 - 2019. Assistant Team Leader / Team Leader. These projects involve the underwater structural condition inspection and assessment of navigation, water control and water conveyance structures such as culverts, aqueducts, dams, docks, guide piers, guard gates, locks, spillways, terminals, tainter gates, and approach walls. Mr. Cornish has led underwater inspection teams as a certified team leader, performed underwater diving inspections as a diver, and provided diving support for the inspection of numerous canal structures utilizing scuba and surface supplied air sources. *Client: New York State Canal Corporation.*

Underwater Bridge Inspections, Franklin, Lorain and Erie Counties (2 contracts), Ohio; 2019, 2021. Team Leader. GPI has been periodically engaged to provide underwater condition inspections for county owned bridges throughout the state of Ohio. Mr. Cornish's responsibilities on these projects included leading underwater inspection teams as a certified ODOT Team Leader, performing diving inspection and support, documenting inspection findings, authoring inspection reports and recommending repairs. *Client: Ohio Counties of Lorain, Franklin and Erie.*

Grosse Pointe Club Structural Inspection; 2020. Project Manager / Team Leader. GPI was contracted to perform an underwater inspection of the Club's harbor facility structure to determine the cause of observed settling and rotation. The inspection was performed with commercial scuba diving equipment. Mr. Cornish led the underwater inspection team, performed the condition inspection, and authored the inspection report. *Client: Grosse Pointe Club.*

SCDPW CR 36 Culvert Inspections; 2019. This project involved the inspection of three reinforced concrete culverts using a Remotely Operated Underwater Vehicle (ROV) and crawler ROV to visually assess the structural condition of the culverts. Mr. Cornish led the inspection team and authored the inspection reports. *Client: Suffolk County Department of Public Works.*

Port of Oswego Underwater Inspection, Oswego, New York; 2018. Team Leader / Project Manager. GPI was subconsultant responsible for the underwater inspection and assessment of two Port of Oswego structures. The goal of the inspection was to determine the cause of observed settlement and rotation. The inspection was performed with surface supplied diving equipment with full video documentation. Mr. Cornish led the underwater inspection team, performed the condition inspection and authored the inspection reports. *Client: Prudent Engineering / Port of Oswego.*

Underwater Inspection of Grosse Ile Parkway Bridge (Movable Bridge) over the Trenton Channel; 2017. Engineer-Diver. The Grosse Ile Parkway Bridge is a twelve-span swing bridge with masonry substructure units. GPI performed an underwater inspection (100% Level 1 & 10% Level 2) of all submerged bridge and fendering system elements. Sounding data was collected in conjunction with a complete channel fathometer survey. Responsibilities included diving inspection and report writing. Reports were prepared to MDOT and City standards. *Client: Wayne County (Michigan) Department of Public Services.*

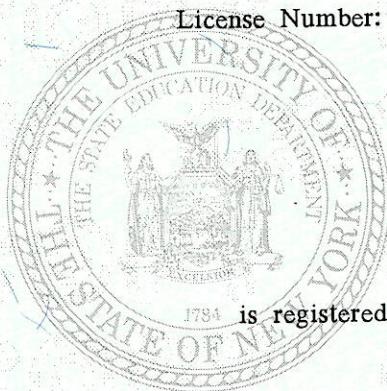
The University of the State of New York
Education Department
Office of the Professions

REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number:

095073-01

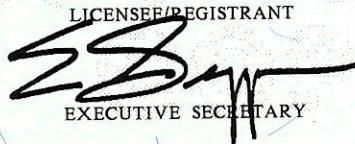
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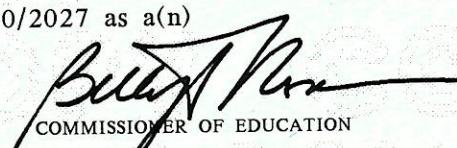


CORNISH DAVID THOMAS
185 ONTARIO STREET
HONEOYE FALLS NY 14472-9461

1784 is registered to practice in New York State through 04/30/2027 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT


Executive Secretary


COMMISSIONER OF EDUCATION


Sarah D. Benson
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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U.S. Department
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Federal Highway
Administration

National Highway Institute



Certificate of Training

David Cornish

has participated in

FHWA-NHI-130056

Safety Inspection of In-Service Bridges for Professional Engineers

hosted by

Collins Engineers, Inc.

Date: April 16-20, 2018

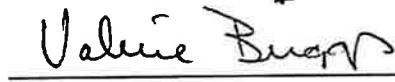
Hours of Instruction: 34 Hours

Location: Chicago, IL


Instructor


Instructor


Local Coordinator


Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

David Cornish

has Successfully Completed

FHWA-NHI-130053 – Bridge Inspection Refresher Training

hosted by

New Jersey Department of Transportation

Date: March 14-16, 2023

Hours of Instruction: 18

Location: Trenton, NJ

Instructor

Instructor

Local Coordinator

Thomas Harman, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

David Cornish

has Successfully Completed

***FHWA-NHI-130078 Bridge Inspection Techniques for
Nonredundant Steel Tension Members (NSTM)***

hosted by

Consultant-GPI

Date:

April 2-4, 2024

Location:

Buffalo, NY

Instructor

Brian D. Dietrich

Instructor

Hours of Instruction:

20

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

**Association of Diving Contractors
International**



Cert. # 45891

Expires 08/20/2027



SURFACE-SUPPLIED AIR DIVER

DAVID T. CORNISH I.D. 2309

Commercial Diver Certification Card



U.S. Department
Of Transportation

Federal Highway
Administration



National Highway Institute

Certificate of Training

David T. Cornish

has participated in

Underwater Bridge Inspection
NHI Course 130091

hosted by

Collins Engineers, Inc.

Location: Rochester, New York

Hours of Instruction: 20

Date: March, 2009

Thomas Collins
Instructor
Moses Ayelle
Director, National Highway Institute
Federal Highway Administration

Anne Harvey
Coordinator
J.H.H.
Director, Office of Professional Development
Federal Highway Administration

William Doughty, P.E.

Director of Bridge Condition Inspection



PROPOSED PROJECT ASSIGNMENT

Project Manager

EDUCATION

BSCE / 1993 / Civil Engineering

REGISTRATION

2019 / Professional Engineer / MI
6201069313

2000 / Professional Engineer / NJ
24GE04564200

1999 / Professional Engineer / NY 076817

YEARS WITH FIRM 12

TOTAL YEARS EXPERIENCE 31

CERTIFICATION / TRAINING

2022 / First Aid, CPR, AED, Emerg. O2
2020 / Fall Protection, Confined Space,

OSHA 10, Mobile Elevated Work Platform
2017 / Lead & Respiratory Protection

2019 / NHI: Underwater Bridge Inspection
[Instructor 2019 – 2023.] (130091)

2018 / NHI: U/W Bridge Repair, Rehab.
and Countermeasures [Instructor 2018 –
2023.] (130091B)

2014 / NACE Coating Inspector Level 1

2012 / NHI Inspection and Maintenance
of Ancillary Highway Structures
[Instructor 2013 – 2017, 2024 – Pres. /

Subject Matter Expert 2019- 2020]
(130087)

2010 / NHI Bridge Inspection Refresher
Training (130053)

PROFESSIONAL AFFILIATIONS

Association for Bridge Const. & Design

New York State Association of
Transportation Engineers (Section 4)

Professional Profile

Mr. Doughty has 30 years of experience as a Project Manager, Bridge Design Engineer, and structural inspection Team Leader.

Mr. Doughty currently manages the Western New York Branch's Structural Condition Inspection Department. This group specializes in evaluating the condition and recommending repairs for in-service structures such as bridges, water control & navigation structures, highway lighting / overhead sign supports and port facilities. The group includes engineers, technicians, commercially certified divers, FAA certified drone pilots, and rope-access technicians who are trained to safely utilize myriad access methods, remote sensing technologies and non-destructive testing methods to obtain the data needed to assess a structure's condition / needs and recommend maintenance actions.

Mr. Doughty manages his department and projects with a focus on client service, employee growth and the right-fitting of personnel and technology to each project's unique needs. He strives to understand his client's needs and clearly communicate throughout the various project phases.

Project Experience

NYPA Bridge Inspection Services, Various Purchase Orders, New York; 2020 – 2024. Project Manager. GPI is the Prime Consultant responsible for bridge inspection and load rating services at NYPA's Lewiston and Massena power projects. Purchase Orders to date have included the 2020 and 2024 biennial inspection of the 4 Lewiston Bridges and the 2023 biennial inspection of the Barnhart Island Bridge. These assignments also included the development of detailed, level 1 load rating models for the structures. The structural models were later modified to evaluate floating bearings that were discovered during the 2020 and 2023 inspections. Mr. Doughty is responsible for client service, executing agreements, and ensuring resources are available to perform the scoped work per the assignment schedule. *Client: New York State Power Authority*

NYSCC Systemwide Bridge Inspection and Load Rating, Various Locations, New York; 2022 – 2024. Senior Project Manager. GPI is the Prime Consultant responsible for performing bridge inspection and load rating services on pedestrian and vehicle bridges located throughout the NYS Canal System. Mr. Doughty is responsible for client service, executing agreements and ensuring resources are available to perform the scoped work per the assignment schedule. *Client: New York State Canal Corporation*

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2022 – 2025. Project Manager. GPI is the Prime Consultant responsible for NBIS inspection and load rating of ~650 bridges per year. GPI is responsible for project management, bridge inspection, quality control, load rating, hydraulic vulnerability analysis, repair design, fatigue analysis, load testing and WZTC plan development. Mr. Doughty is responsible for client service; resource management; tracking budget, schedule, and scope; permit coordination; and the management of internal staff, 3 subconsultant partners, and myriad access equipment and WZTC service providers. *Client: New York State Department of Transportation*

FHWA Structures Instruction (3 contracts), Nationwide; 2012 – Present. Regional Manager / Lead Instructor. GPI is the Prime Consultant responsible for the instruction of several courses related to structural inspection, bridge maintenance and construction inspection. Mr. Doughty is a Lead Instructor for the following National Highway Institute Courses: 130087 – Inspection and Maintenance of Ancillary Highway Structures, 130091 – Underwater Bridge Inspection, 130091B – Underwater Bridge Repair, Rehabilitation and Countermeasures. His responsibilities include the instruction of course materials to nationwide professionals in the U.S. transportation industry. He also assists in the coordination with site liaisons and post-session reporting to FHWA. Mr. Doughty was awarded the FHWA Instructor of Excellence award for FY's 2013, 2014 & 2019.

Client: Federal Highway Administration

NYSDOT Sign Inspection Program (4 contracts), Various Locations, New York; 2015 – present. Project Manager / QC Engineer / Team Leader. GPI is the Prime Consultant responsible for the annual structural condition inspection of ~500 overhead sign and high-mast lighting structures, located throughout NYSDOT Regions 1-7 & 9. After successfully completing the 2015-16, 2017-18, and 2019-20 term, GPI was again re-selected as the Prime Consultant for the 2021-24 contract term. As the Project Manager, Mr. Doughty is responsible for client service; tracking project schedule, scope and budget; and coordinating work with sub-consultants, contractors, and regional liaisons. As a Quality Control Engineer, he performs quality reviews on field procedures and deliverables. As a backup Team Leader, he periodically leads an inspection team, documents observed conditions and updated inventory records. *Client: New York State Department of Transportation*

NYSTA Bridge & Other Structure Inspections – Syracuse and Buffalo Div. (2 contracts), Various Locations, New York; 2022 - present. Project Manager. GPI is a subconsultant providing overhead sign structure, general and underwater bridge inspection services for ~20 structures per year. As the Project Manager, Mr. Doughty is responsible for assigning inspection and diving staff to execute the assignments, tracking project schedule and budget and complying with NTSTA on-line contract reporting tasks. *Client: Popli Design Group / New York State Thruway Authority.*

MCDOT Lighting Rehabilitation (3 contracts); Various Locations, New York; 2018 – 2022. Project Manager / Structural Lead. This program is intended to improve the efficiency and reliability of Monroe County's (NY) expressway lighting system. GPI was selected as the prime consultant to lead 2 of these corridor projects (NE-1 & Central) and to perform structural condition assessment tasks as a sub-consultant on a third corridor project (NW-1). Each corridor included between 250 and 650 highway lighting fixtures with varied mounting configurations. As the Project Manager, Mr. Doughty is responsible for project scoping, client service, subconsultant management and design coordination. As the Structural Lead, he is responsible for oversight of the structural condition inspection, repair needs evaluation and design / cost estimate of structural repair and replacement work items. During construction, Mr. Doughty advises the owner and reviews contractor submittals. *Client: Monroe County Department of Transportation*

FHWA / NHI Course Development; 2013 – 2023. Subject Matter Expert. These multiple projects involve the development of new and updated course offerings related to structural design, inspection, and maintenance. Mr. Doughty's responsibilities have included assisting with the development of the following training materials and reference manuals. *Client: Federal Highway Administration.*

- NHI Course #130107A – Fundamentals of Bridge Maintenance
- FHWA Bridge Maintenance Reference Manual
- NHI Course #130087 – Insp. of Ancillary Highway Structures (instructor led)
- NHI Course #130087A – Insp. of Ancillary Highway Structures (web-based)
- FHWA Ancillary Highway Structure Inspector Reference Manual; Co-author

Below Water Inspections for NYS Canal Corporation D214440, Statewide, New York; 2013 – 2019. Team Leader. GPI was the prime consultant, performing underwater structural condition inspections along the New York State Canal system. Mr. Doughty was responsible for coordinating safe diver access, leading a dive team, performing the structural condition inspection of underwater structural elements, preparing inspection reports, and recommending repairs. Inspected structures included spillways, locks, gates, bulkheads, dams, walls, and terminals. The project utilized the CIMS database. *Client: New York State Canal Corporation*

To: Licensee/Registrant

- ◆ Please review the Registration Certificate below to be sure the information on it is correct.
- ◆ If any of the information is not correct, please contact us at OPREGFEE@mail.nysesd.gov or (518) 474-3817, Ext. 410.
- ◆ If the information is correct, sign above the Licensee/Registrant block and please destroy any previous Registration Certificates you may have, as certificates with incorrect information are not valid and should not be kept.
- ◆ Should your address or name change, please notify us as described on the reverse and a new certificate will be issued.

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Education Department
Office of the Professions*
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License Number:

076817-01

Certificate Number: 2257330

DOUGHTY WILLIAM ALEXANDER
7 BETHNAL GREEN
ROCHESTER NY 14625-0000



is registered to practice in New York State through 02/28/2026 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

EXECUTIVE SECRETARY

COMMISSIONER OF EDUCATION

Sarah D. Benson
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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On-site training based on

2005



U.S. Department
Of Transportation

Federal Highway
Administration's
BITM 90
80-hour Course

Certificate of Training

William A. Doughty

has satisfactorily completed training in

Safety Inspection of In-service Bridges

conducted by
Collins Engineers, Inc

Location: Chicago, Illinois

Date: July 2005

Instructor

A handwritten signature in black ink that reads "William A. Doughty".

Hours of Instruction: 80

Continuing Education Units: 6.0

Coordinator

A handwritten signature in black ink that reads "Troy C. Lohr".



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Of Transportation
Federal Highway
Administration

National Highway Institute



NATIONAL HIGHWAY INSTITUTE
Inquiry Solutions for Transportation Excellence

Certificate of Training

William Doughty

has participated in

FHWA NHI 130053

Bridge Inspection Refresher Training

hosted by

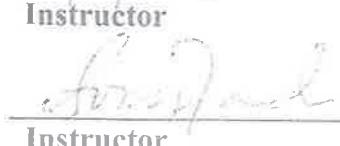
Michigan Department of Transportation

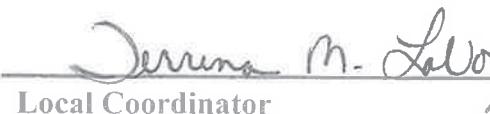
18

Hours of Instruction:

Date: October 6, 2010
Location: Lansing, Michigan


Instructor


Instructor


Local Coordinator



Richard Barnaby, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

William Doughty

has participated in

Instructor

FHWA-NHI-130091B

Underwater Bridge Repair, Rehabilitation, and Countermeasures

hosted by

Federal Highway Administration

Date: *April 8-9, 2019*

Hours of Instruction: 16

Location: *Sterling, VA*

[Signature]
Instructor

[Signature]
Instructor

[Signature]
Local Coordinator

[Signature]
Michael Davies

Michael Davies, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

William Doughty

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

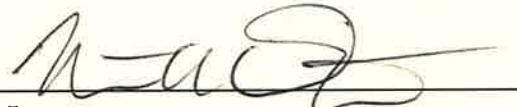
hosted by

MP Engineers, P.C.

Date: October 11-14, 2021

Hours of Instruction: 24

Location: Princeton, NJ



Instructor



Instructor



Local Coordinator *Mahendra Patel, P.E.*

Thomas Harman

Thomas Harman, Director
National Highway Institute

Michael Nitchman

Inspection Diver | Engineering Technician | CADD Technician | Assistant Team Leader



PROPOSED PROJECT ASSIGNMENT

Assistant Project Manager / Inspection Diver /
ROV Team / Assistant Team Leader

EDUCATION

2009 / Computer Aided Drafting / Certificate

YEARS WITH FIRM 15

TOTAL YEARS EXPERIENCE 15

CERTIFICATION / TRAINING

ATSSA Traffic Control Supervisor Certification
Construction Confined Space Entry OSHA 1926

Subpart AA Training

FHWA-NHI 130053 Bridge Inspector Refresher

FHWA-NHI 130055 Safety Insp. of In-Service
Bridges

FHWA-NHI 130087 Insp. & Maintenance of
Ancillary Highway Structures

FHWA-NHI 130091 Underwater Bridge Insp.

FHWA-NHI 135046 Stream Stability & Scour

FHWA-NHI 135086 Stream Stability Concepts

FHWA-NHI 135087 Scour at Highway Bridges
– Concepts & Definitions

First Aid/CPR/AED 2024

Lockout/Tagout – Control of Hazardous Energy

OSHA 29 CFR 1910.147 Training

NICET Level 1 Highway Construction Insp.

NICET Level 1 Bridge Safety Insp.

NICET Level 1 Highway Design

AMPP Basic Coatings Inspector

NACE Coating Inspector Level 1

Open Water Certification for Scuba

OSHA 10 Hour Construction Safety Course

OSHA Confined Space Entry Training

OSHA Lead Awareness Training

Transportation Workers Identification Card

Professional Profile

Mr. Nitchman is experienced in all aspects of structural inspection, including above and below water condition inspections, inspection management, scheduling, asset inventory and condition data input, and report preparation, including developing computer drawings/sketches and quality control. He is a certified bridge inspector per FHWA regulations with expertise in the operation of remotely operated vehicles, including underwater-propelled and crawler types. He has additional experience in the evaluation of construction, including bridge painting inspection. Mr. Nitchman participated as an inspection team member and/or diver for a wide variety of clients, including State DOTs, Counties, Water Authorities, local towns, and cities across seven states, including New York, Pennsylvania, New Jersey, Ohio, Michigan, New Hampshire, and Massachusetts. He is proficient in Mechanical, Civil, and Architectural drafting and applies this knowledge to multiple programs, including MicroStation, AutoCAD, Revit, Inventor, and Civil 3D software, providing drafting services on numerous projects. Mr. Nitchman assisted with construction inspections and engineering technician duties on a variety of trail projects, as well as data collection in the field.

Mr. Nitchman has an excellent work ethic and is dedicated to safety awareness, which plays a critical role in his field. Trained in several OSHA safety courses, he is highly qualified as the acting Safety Officer on multiple projects. Additionally, he is an efficient crew manager, meets deadlines, ensures staff receives special training & certification, and diligently mitigates any unforeseen issues.

Project Experience

NYSTA Biennial Bridge and Other Structure Inspection Syracuse & Buffalo, Various Locations, NY; 2022. Inspection Team Member / Boat Operator / Safety Officer / Tender. GPI is a subconsultant providing structural condition inspection services for structures in the NYSTA inventory. As a Team Member, Mr. Nitchman assisted in the inspection effort, which included a complete underwater inspection (full Level 1 and 10% Level 2 inspection) of all submerged components, photographs of inspection findings, and collection of sounding data for comparison to previous data. Mr. Nitchman operated the inspection boat during the inspection and tended to divers in the water. Also, Mr. Nitchman developed a HASP and JHA and coordinated inspections with the Coast Guard. The bridges that were inspected included the South Grand Island Bridges and the I-90 over the Genesee River. *Client: Popli Design Group / New York State Thruway Authority.*

NYSCC System-wide Bridge Inspection & Load Rating, Various Locations, NY; 2022 – 2024. Assistant Project Manager / Assistant Team Leader. GPI was the Prime Consultant responsible for performing structural condition inspection and load rating services on pedestrian and vehicle bridges located throughout the NYS Canal System. As the Assistant Project Manager and Assistant Team Leader, Mr. Nitchman was responsible for client service, managing subconsultant partners, and tracking the project schedule, inspection schedules, and HASP's. *Client: New York State Canal Corporation.*

Maryland State Highway Administration Underwater Inspection of Bridge 230021001 - MD 90 over Assawoman Bay; 2023. Inspection Team Member / Boat Operator / Safety Officer / Tender. MD 90 over Assawoman Bay is a 7580-foot-long, 139-span structure located in Ocean City, Maryland. Mr. Nitchman assisted in the inspection effort, which included a complete underwater inspection (full Level 1 and 10% Level 2 inspection) of all submerged components, photographs of inspection findings, and collection of sounding data for comparison to previous data. Mr. Nitchman operated the inspection boat during the inspection and tended to divers in the water. Mr. Nitchman developed a HASP and JHA and coordinated inspection with the Coast Guard. *Client: Maryland State Highway Administration.*

New York State Canal Corporation Multi-Year Canal Water Impounding Embankment Inspection Program. Statewide, NY; 2021. Assistant Team Leader. GPI performed embankment inspections and related engineering services to assess the assigned NYS Canal System embankments. The inspection results are to be utilized to program maintenance and capital improvements, complete emergency repairs, and schedule/prioritize monitoring by Canal forces. Mr. Nitchman performed field inspections and HASP development. *Client: New York State Canal Corporation.*

New York State Canal Corporation / New York Power Authority Below Water/Structural Inspections, Western Division, Various, NY; 2020 – 2022. Assistant Project Manager / Assistant Team Leader / Diver / Tender / Engineer Technician / CADD Technician. This two-year term contract included the inspection and structural evaluation of structures throughout upstate New York State on the Erie and Champlain Canal systems. The work included the inspection of locks, dams, sluice gates, terminals, retaining walls, guard gates, sluice gates, and waste weirs and culverts. Mr. Nitchman's responsibilities included performing above and underwater inspections for structural integrity, scheduling field inspections, project management assistant, developing HASP, and report writing. *Client: New York State Canal Corporation.*

System-Wide Below Water Inspection Services for NYS Canal Structures, NY; 2017 - 2019. Assistant Project Manager / Assistant Team Leader / Diver / Tender / Engineer Technician / CADD Technician. Below water inspection of NYS Canal Corporation structures in the Albany, Syracuse, and Buffalo Divisions. Approximately 200 canal structures were inspected. Work included locks, dams, guard gates, guard locks, retaining walls, culverts, and spillways. Mr. Nitchman's responsibilities included performing above and underwater inspections for structural integrity, scheduling field inspections, project management assistant, developing HASP, and report writing. *Client: NYS Thruway Authority/Canal Corporation.*

System-Wide Below Water Inspection Services for NYS Canal Structures; 2012 – 2016. Diver / Tender / Engineer Technician/CADD Technician. Below water inspection of NYS Canal Corporation structures in the Albany, Syracuse, and Buffalo Divisions. Approximately 200 canal structures were inspected. Work included locks, dams, guard gates, guard locks, retaining walls, culverts, and spillways. Mike was responsible for field inspections, scheduling, and report writing. *Client: NYS Thruway Authority/Canal Corporation.*

NYSTA Biennial Bridge Inspection Buffalo-Syracuse Division, NY; 2014 – 2015. Diver/Tender / Engineer Technician/CADD Technician. GPI performed inspections of underwater bridge elements in the western NYSTA divisions. Assignments included the Grand Island Bridges leading to Niagara Falls. The large steel truss bridges are founded on concrete caissons in turbid and swift-moving water. Soundings were performed at each bridge, and a complete fathometer survey was conducted. The team was led by a PE and a Commercial Diver. Full Level 1 and 10% Level 2 inspection. Reports were prepared to NYSDOT standards. Mike's responsibilities included scheduling field inspections, drafting and report writing. *Client: NYS Thruway Authority.*

Open Water Diver

This is to certify that

Michael Nitchman

has satisfactorily completed a sanctioned course in

SCUBA DIVING

and is hereby awarded the rating of **Open Water Diver**

by the **Professional Association of Diving Instructors.**

Given this 1st day of July, 2012.

Theresa Greco

Instructor

231672

Number



Drew Richardson, Ed.D.

President and Chief Operating Officer
PADI Worldwide



PADI
padi.com



**New York State
Boating Safety Certificate**

This Boating Safety Certificate has been issued to:

MICHAEL NITCHMAN

DOB:
01/28/1972

Eye Color:
Blue

Gender:
M

Boater ID Number:
12631772

pursuant to the laws of New York State by New York State Parks.
Where boating safety instruction is required, this card must be
carried and exhibited upon the request of a police officer. Failure to
do so may result in a citation.

Jonathan A.H. Herman, P.E.

Senior Structural Engineer



PROPOSED PROJECT ASSIGNMENT

Assistant Project Manager
Quality Control Engineer
Safety Officer

EDUCATION

MS / 2014 / Bridge Engineering
2011 / Advanced Cert. in Bridge Eng.
BS / 2007 / Civil Engineering

REGISTRATION

2012 / Prof. Eng. / NY #091129
2018 / Prof. Eng. / SC #36321
2019 / Prof. Eng. / MI 6201069185

YEARS WITH FIRM 17

TOTAL YEARS EXPERIENCE 18

CERTIFICATION / TRAINING

2024 / FHWA-NHI 130078 Bridge Inspection for Non-Redundant Steel Tension Members
2024 / FHWA-NHI 130053 Bridge Inspection Refresher Training
2023 / NYSDOT Bridge Inspection Meeting (Team Leader Approval 2013)
2020 / FHWA-NHI 130091 Underwater Bridge Inspection
2020 / SSI Open Water Diver, NITROX
2020 / Fall Protection Training
2020 / Confined Space Awareness Certification
2019 / First Aid, CPR, AED
2019 / NHI Instructor Certification [Instructor Development Course #420018- 2018]

Professional Profile

Mr. Herman has 18 years of experience related to bridge design, rehabilitation, maintenance, and inspection. He possesses relevant experience associated with both the technical / structural elements and the logistical issues of bridge access, work zone traffic control, and coordination with railroads. He is SPRAT certified for rope access techniques and is an experienced diver for assessing underwater bridge elements. In addition, Mr. Herman is an NHI certified instructor and teaches the national bridge inspection courses.

His additional duties include serving as GPI's local Health and Safety Coordinator, responsible for the safety management, recordkeeping, and training of staff at the Western New York branch, including all local bridge/structural condition, survey, construction, and coatings inspection personnel. He communicates core health and safety regulations, industry standards, and company practices to employees, and serves as liaison for the branch on all health and safety related issues.

Project Experience

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Condition Inspection (2 contracts), Lewiston NY, 2020 & 2024. Project Manager (2020) / QC Engineer (2020, 2024). For 2 of the last 3 cycles, GPI has been the Prime consultant responsible for the inspection, and load rating services for the four bridges located at the RMNPP. Work includes physical bridge inspections (NBIS), repair recommendations and load rating updates (AASHTO LRFR). Mr. Herman oversees multiple inspection and load rating teams and coordinates with two subconsultants, one access contractor and multiple rental companies. Project deliverables include a condition report, maintenance / repair recommendations, cost estimate report, and level 1 load rating. *Client: New York Power Authority*

NYPA St. Lawrence Power Project Barnhart Island Bridge Condition Inspection, Massena NY, 2023. Project Manager / Lead Team Leader. GPI was the Prime consultant responsible for the inspection, maintenance recommendations and level 1 load rating services for the Barnhart Island Bridge. The bridge is a 3-span, modified, Warren through-truss, with a total bridge length of 1076'. Mr. Herman oversaw multiple inspection teams and coordinated with two subconsultants, multiple access contractor and rental companies. Project deliverables included a condition report, maintenance / repair recommendations, cost estimate, and a level 1 load rating. *Client: New York Power Authority*

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Yellow Flag Analysis (2 contracts), Lewiston NY, 2021 & 2023. Project Manager, QC Engineer. NYPA awarded GPI 2 contracts to perform analyses of a yellow flag condition (floating bearings) identified during the 2020 and 2022 general bridge inspection. GPI performed an on-site investigation, modelled the condition, and performed and independent load rating analysis to ensure adjacent members were not overstressed. John was responsible for reviewing the load rating calculations and model calibration *Client: New York Power Authority*

National Highway Institute (NHI) Course Instruction for Bridge Inspection Courses 130053, 130055, & 130056. 2018-Present. Lead Instructor. GPI is currently under contract by the FHWA to instruct several courses including Course 130053 – Bridge Inspection Refresher Training, 130055 – Safety Inspection of In-Service Bridges & 130056 – Safety Inspection of In-Service Bridges for PEs. Satisfactory completion of these courses fulfills current NBIS requirements for all inspectors performing bridge inspections. Instruction covers all aspects of bridge inspection including methods and techniques of inspection, material deterioration mechanisms, scour inspection techniques, and NBI / Element Level rating systems. Mr. Herman was identified as an *Instructor of Excellence* for the year of 2019 based on evaluations / feedback from class participants. *Client: Federal Highway Administration (FHWA).*

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2022 – 2025. Quality Control Engineer / Team Leader. GPI is the Prime Consultant responsible for NBIS inspection and load rating of over 650 bridges per year. GPI is responsible for project management, field inspection, quality control, load rating, hydraulic vulnerability analysis, critical finding repair design, fatigue analysis, load testing and WZTC plan development. As the Quality Control Engineer, Mr. Herman is responsible for reviewing inspection team field procedures and project deliverables (Reports / Inventory Records / Critical Findings) for conformance with client and NBIS standards. As an inspection Team Leader, Mr. Herman is responsible for leading an inspection team and assessing structural conditions and needs using visual, tactile, and non-destructive testing methods. *Client: New York State Dept. of Transportation.*

Similar Projects: NYSDOT Region 5 Biennial Bridge Inspection, 2022-2025 (Team Leader)
 NYSDOT Region 4 Biennial Bridge Inspection, 2020-2021 (Team Leader / Load Rating Engineer)
 NYSDOT Region 5 Biennial Bridge Inspection, 2018-2019 (Quality Control Engineer)
 NYSDOT Region 6 Biennial Bridge Inspection, 2014-2015 & 2016-2017 (Team Leader)

NYSCC Systemwide Bridge Inspection and Load Rating, Various Locations, New York; 2022 – 2024. Quality Control Engineer / Team Leader. GPI is the Prime Consultant responsible for performing structural condition inspection and load rating services on approximately 100 pedestrian and vehicle bridges located throughout the NYS Canal System. Inspection reports are prepared in the Canals Infrastructure Management System (CIMS), in accordance with inspection rating criteria in the NYSCC Inspection Manual (CSIM-95). As the Quality Control Engineer, Mr. Herman is responsible for reviewing the inspection teams' field procedures and project deliverables (Reports / Inventory Records / Critical Findings) for conformance with client standards. As an inspection Team Leader, Mr. Herman is responsible for leading an inspection team and assessing structural conditions and needs using visual, tactile, and non-destructive testing methods. *Client: New York State Canal Corporation*

CSX Spur Over Military Road Bridge, Buffalo, New York; 2013 - Present. Project Manager, Inspection Team Leader, RR Bridge Engineer, Owner's Representative. This project involves the development and implementation of a RR Bridge Management Program for a privately-owned railroad siding bridge. The program includes annual physical bridge inspections per AREMA standards, repair recommendations and load rating updates. In executing this program, Jon has performed several roles during the annual rounds of detailed, physical bridge inspections, load ratings, post event emergency inspections, rehabilitation repair design, and repair contract management. Jon leads annual meetings with the bridge owner to review findings and recommendations for continued bridge management. *Client: Protective Industries, Inc.*

New York State Canal Corporation Western Division Structural Inspections, BUF & SYR Div. 2020 - 2021. Team Leader. This contract included the inspection and structural evaluation of navigation, water control and conveyance structures on the Erie, Oswego and Cayuga-Seneca canal systems. Inspected structures included locks, dams, sluice gates, terminals, retaining walls, guard gates, sluice gates, waste weirs and culverts. As a Team Leader, Jon was responsible for above and below water structural condition assessment, report preparation and repair recommendations. *Client: NYSCC/NYPA*

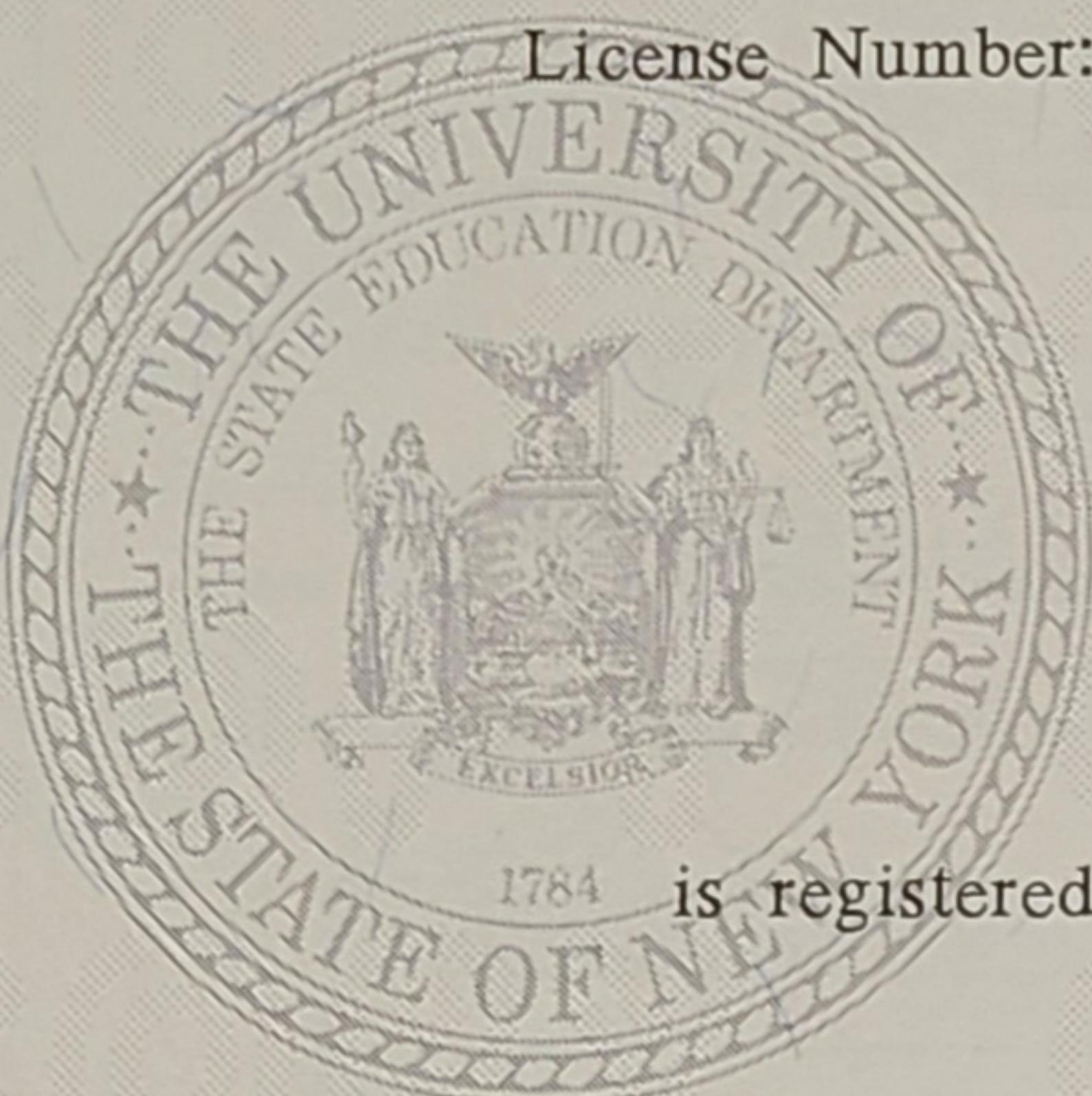
NYSCC on-call Structural Inspections, Systemwide; 2020. Inspection Team Leader and QC Engineer. GPI was awarded a term agreement for as needed and emergency structural inspections. Under this agreement, Jon led the very first detailed inspection of a Mabey Truss bridge (Lock 8 Way Bridge), which has been in service for 15+ years. The bridge was expected to see increased traffic due to redevelopment of the site. A thorough inspection report was prepared to document areas in need of repair and preservation activities critical for the structure's continued serviceability. A second assignment involved the inspection of a rigid-frame, concrete bridge structure. Jon prepared the HASP to address difficult access issues such as channel ice and reviewed the deliverables. *Client: New York State Canal Corporation*

*The University of the State of New York
Education Department
Office of the Professions*

REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number: 091129-01

Certificate Number: 2870450

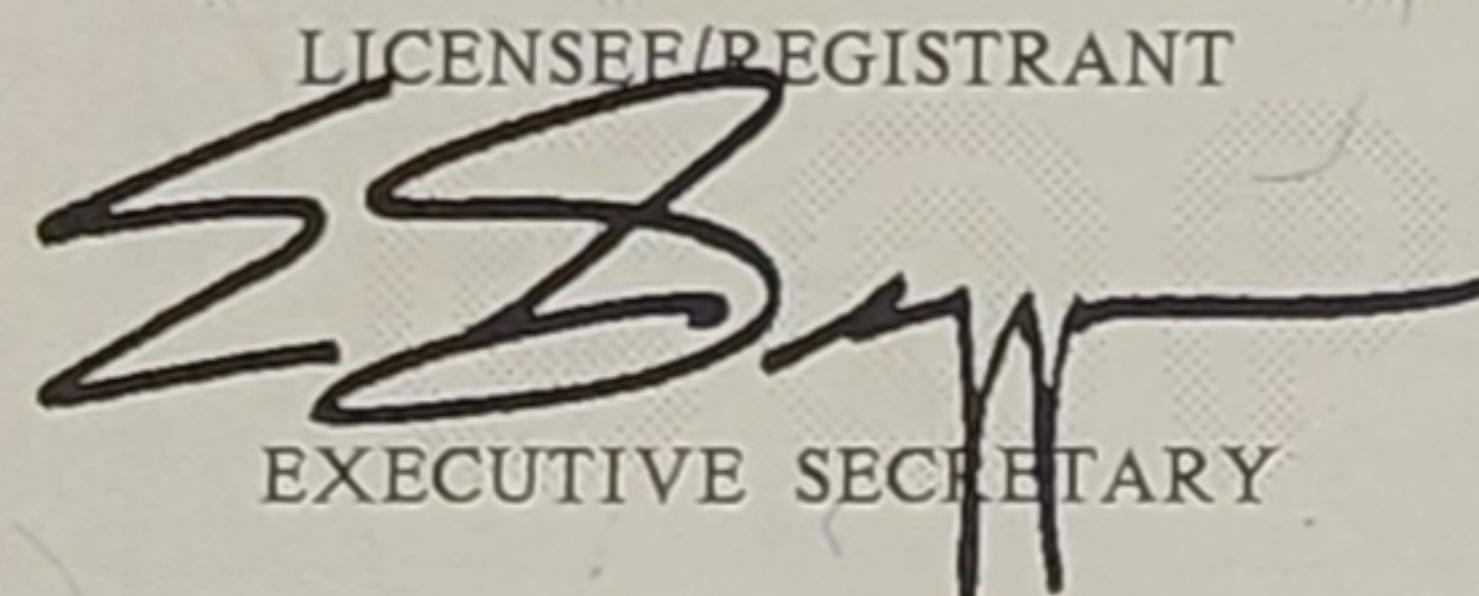


HERMAN JONATHAN A
19 PINEWOOD DR.
ORCHARD PARK

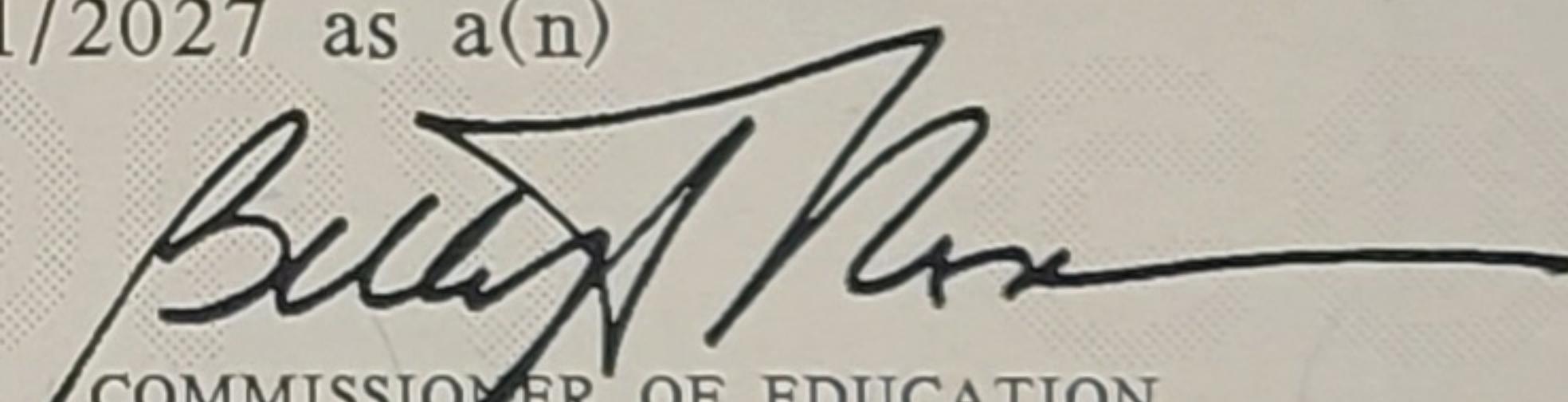
NY 14127-0000

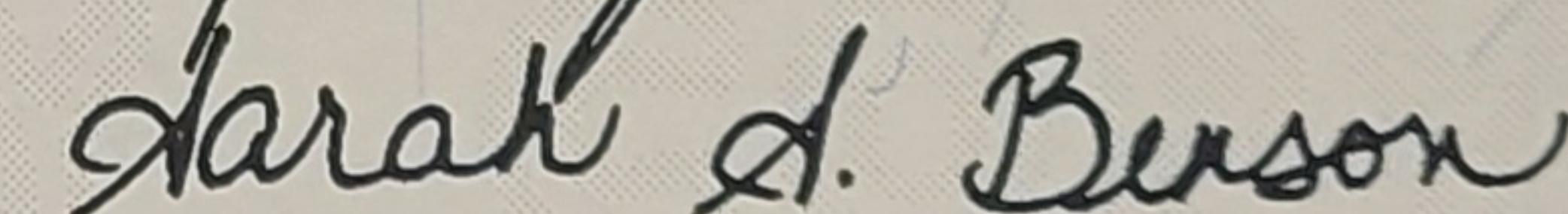
is registered to practice in New York State through 05/31/2027 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT



EXECUTIVE SECRETARY


Betty Rose
COMMISSIONER OF EDUCATION



SARAH D. BESON
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Jonathan Herman

has participated in

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

hosted by

GPI Greenman - Pedersen Inc.

Date: April 28 – May 9, 2014

Hours of Instruction: 67

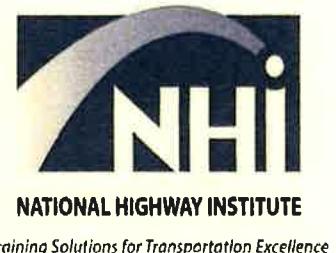
Location: Babylon, New York

A. Cui Mann
Instructor

J. E. L.
Instructor

Daniel Gove
Local Coordinator

Richard Barnaby
Richard Barnaby, Director
National Highway Institute





U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Jonathan Herman, P.E.

has Successfully Completed

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

hosted by

Consultant-GPI

Date: *March 26-28, 2024*

Hours of Instruction: 22

Location: *Buffalo, NY*

Instructor

Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Jonathan A. Herman, P.E.

has Successfully Completed

***FHWA-NHI-130078 Bridge Inspection Techniques for
Nonredundant Steel Tension Members (NSTM)***

hosted by

Consultant-GPI

Date:

April 2-4, 2024

Hours of Instruction:

20

Location:

Buffalo, NY

Instructor

Brian J. Dietrich

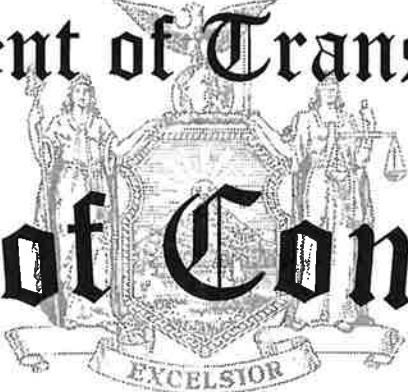
Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

State of New York
Department of Transportation



Record of Completion

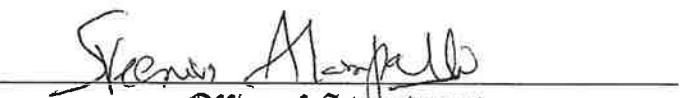
This is to document that

Jonathan Herman

Has Received Instruction in the
Methods of Bridge Inspection
Prescribed by the Office of Structures

in token whereof this document is granted

Given at Albany, New York, March 28, 2008



Steven A. Campbell
Office of Structures

PROPOSED PROJECT ASSIGNMENT

Quality Control Engineer

EDUCATION

1967 / BS / Civil Engineering

REGISTRATION

1972 / Professional Engineer / NY

YEARS WITH FIRM 14

TOTAL YEARS EXPERIENCE 58

Professional Profile

Mr. Mack is GPI's Quality Control Engineer for above and below water canal inspections, working with GPI's underwater inspection and dive team. He is in his twentieth year providing quality control services for under water and above water inspection projects with the New York State Canal Corporation. During this time, he completed reviews of hundreds of both above and below water canal inspections. He was Assistant Regional Canal Engineer for the Eastern Region of NYSDOT in the 1970's. He retired from NYSDOT as a Deputy Chief Engineer and continues his career as an Associate Engineer at GPI.

Project Experience

2020 Interim NYS Canals Below Water Inspection, Western, NY; 2020 – 2024. QC Engineer. Quality control reviews of reports in CIMS for above and below water inspection of Canal Corporation structures. Project scope includes performing inspections of underwater structures throughout upstate New York on the Erie and Champlain Canal systems from 2012 to 2016, 2016 to 2020, and now again from 2020-2024. Previous contracts had over 200 structures, with \$1.8M and \$2.3M contract values, which included locks, dams, sluice gates, terminals, retaining walls, guard gates, and culverts. All teams were led by a professional engineer. Reports included assessments of structural condition, repair recommendations and associated costs. Reports were developed using a web-based system for data entry, report generation and quality control. This contract for 2020-2024 follows the NYPA purchase order system, and will commence with a 2020 interim contract, to be followed by subsequent purchase order contracts for above water inspection, below water inspection, bridge inspection, inspection support services, and/or non-destructive testing. *Client: New York State Canal Corporation.*

NYS Canal Corporation / New York Power Authority Western Division Structural Inspections, Western Division, Various, NY; 2020+. Team Leader / QC Engineer. Responsible for quality control reviews. This two-year term contract includes the inspection and structural evaluation of structures throughout western New York state on the Erie, Oswego, and Cayuga-Seneca canal systems. The project includes the inspection of locks, dams, sluice gates, terminals, retaining walls, guard gates, sluice gates, and waste weirs and culverts. Mr. Mack's responsibilities include on-site structural condition assessment and report preparation with repair recommendations and associated costs, as well as performing QC reviews of prepared inspection reports. *Client: New York State Canal Corporation.*

Below Water Inspections for NYS Canal Corporations / D214440, Various Locations, Upstate, NY; 2017 – 2019. QC Engineer. Responsible for quality control reviews of reports in CIMS for below water inspection of Canal Corporation structures. GPI was retained by the NYS Canal Corporation / Thruway Authority to perform inspections of underwater structures throughout upstate New York on the Erie and Champlain Canal systems from 2012 to 2016 and again from 2016 to 2020. This contract originally had 226

structures, which included locks, dams, sluice gates, terminals, retaining walls, guard gates, and culverts. *Client: New York State Canal Corporation.*

System-Wide Below Water Inspection Services for NYS Canal Structures, Various Locations, NY; 2012 – 2016. QC Engineer. Responsible for quality control reviews of reports in CIMS for below water inspection of Canal Corporation structures. Approximately 200 canal structures were inspected. Work included locks, dams, guard gates, guard locks, retaining walls, culverts, and spillways. Responsible for field inspections, scheduling field inspections, and report writing. *Client: New York State Thruway Authority/Canal Corporation.*

Prior Firm Experience

Collins Engineers, East Greenbush, NY; 2004 – 2011. Associate Engineer. Assisted in business development and expansion. Responsible for recruitment strategies, recruiting staff, and development of project proposals. QC for both below water and above water canal structure inspections.

New York State Canal Corporation Inspection and Operations & Safety of Mohawk Dams Study, Various Locations, NY. Early in 2007, this project was expanded to include a study of the “Operations and Safety of Mohawk Dams.” Mr. Mack managed the study, provided research, and produced the report in response to the needs of the State’s Canal Corporation.

New York State Thruway Authority, Headquarters, Albany, NY; 2002 – 2003. Temporary Civil Engineer 3, Office of Contracts and Construction Management. Acted as a consultant to the Authority and its Capital Construction Program in the implementation of a new contract project and program management model. Duties included developing position statements and policy and guidance documents. Also included the development and presentation of both in-house and exterior training.

New York State Department of Transportation, Albany, NY; 1967 – 2001 (Retired). 1993 – 2001. Deputy Chief Engineer, Director, Technical Services Division. Responsible for administration and management of the Department’s Materials and Geotechnical Engineering services and its Transportation Research and Highway Data Services programs, each representing a Bureau within the Division. The Division is responsible for developing engineering policies, standards, processes, and specifications. It manages a quality assurance program for all materials incorporated in highway and bridge projects, conducts research and highway data collection and dissemination, and provides consultation services on a Department basis. Member AASHTO Standing Committee on Research. Team Leader – Lead State Team for Superpave Implementation.

04/86-02/93, Region 1 Construction Engineer. Responsible for managing a workforce of 180 engineers and technicians and administering capital highway and bridge projects, averaging 55 active projects valued in excess of \$100M each year.

01/85-04/86, Main Office Construction Engineer. One of two engineers responsible at the Division level for statewide field operations and contract administration. Assigned responsibility for Regions 1 - 7 and 9, all of Upstate New York. In the aggregate, these Regions had more than 600 active highway and bridge projects valued at about \$700 million.

11/83-01/85, Region 1 Design Supervisor. One of three design supervisors responsible for the management and implementation of the Region’s capital design program. Responsible for the management and supervision of five subordinate design sections. Also responsible for supervision of three technical support units, including Soils Engineering, Utilities Engineering, and Training services.

08/80-11/83, Main Office Management Improvement Bureau. Acted as a management consultant and performed independent work on a broad range of management studies. Provided advice to executive management on the efficient management of Department programs and resources. Duties included planning, development, implementation, and evaluation of new organizations, staffing patterns, and systems of operation to accomplish the goals of the Department.

06/67-08/80, Region 1 Engineer. Variety of assignments in increasing responsibility within the fields of highway design and construction along with canal engineering, operations, and maintenance.

The University of the State of New York
Education Department
Office of the Professions
REGISTRATION CERTIFICATE
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License Number:

047963-01

Certificate Number: 3184837



MACK PAUL JOSEPH
19413 E BATTERY ST
CORNELIUS

NC 28031-0000

1784 is registered to practice in New York State through 03/31/2028 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

E. B. Joseph
EXECUTIVE SECRETARY

COMMISSIONER OF EDUCATION

Betty A. Pappas
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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PROPOSED PROJECT ASSIGNMENT

Backup Quality Control Engineer
Backup Team Leader

EDUCATION

ME / 2001 / Structural Engineering
BS / 1999 / Civil and Env. Engineering

REGISTRATION

2006 / Professional Engineer / NY 083438

YEARS WITH FIRM 15

TOTAL YEARS EXPERIENCE 24

CERTIFICATION / TRAINING

2024 / FHWA-NHI 130078 Bridge Inspection for Non-Redundant Steel Tension Members

2024 / FHWA-NHI 130053 Bridge Inspection Refresher Training

2022 / CSX-NS Roadway Worker Protection Contractor Safety

2021 / First Aid-CPR-AED Training

2020 / Fall Protection, Confined Space & Mobile elevated work platform safety

2019 / NHI Certified Instructor

2019 / NHI 130055 Safety Inspection of In-Service Bridges

2018 / NHI 420018 Instructor Development

2011 – 2023 / NYSDOT Bridge Inspection Meeting – Inspection Refresher

PROFESSIONAL AFFILIATIONS

Association of Bridge Construction and Design (ABCD)

Professional Profile

Mr. Cook has over 22 years of experience in the structural design and condition inspection of bridges and buildings. He is an experienced inspector of bridges, commercial buildings, and residential home inspections. He is responsible for the technical design and development of contract drawings, specifications and cost estimates for bridges and buildings.

The depth of his experience is instrumental in the development of projects from concept through completion, allowing him the ability to coordinate with other disciplines, effectively communicate with owners and contractors and oversee construction administration.

Project Experience

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Condition Inspection, Lewiston NY, 2024 - 2025. Team Leader. GPI is the Prime consultant responsible for the inspection and maintenance recommendations for four bridges located at the RMNPP in Lewiston, NY. Collin was responsible for leading a bridge inspection team, preparing inspection reports and inventory verification. Client: New York Power Authority

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2022 – Present. Team Leader / Quality Control Engineer. GPI is the Prime Consultant responsible for NBIS inspection and load rating of ~650 bridges per year. GPI is responsible for project management, field inspection, quality control, load rating, hydraulic vulnerability analysis, critical finding repair design, fatigue analysis, load testing and WZTC plan development. As a Team Leader, Collin is responsible for leading an inspection team, assessing element conditions, and preparing reports and inventory records in the EAM database. Collin led the 2022 inspection of the Irondequoit Bay Bridge (multi-span, steel, deck truss). As a Quality Control Engineer, Collin is responsible for reviewing field procedures and deliverables prepared by other inspection teams. Client: New York State Department of Transportation

NYSDOT Region 5 Biennial Bridge Inspection, Various Locations, New York; 2022 – Present. Team Leader. GPI is a subconsultant responsible for bridge inspection services. As a Team Leader, Collin is responsible for leading an inspection team, assessing element conditions, and preparing reports and updating inventory records in the EAM database system. Collin led the 2024 inspection of the Ohio Street Lift Bridge. Client: Lu Engineering / New York State Department of Transportation

NYSCC Structural Inspection Services (West Division), New York; 2020 - 2022. Team Leader. GPI was the Prime Consultant providing top-side and underwater structural condition inspection and repair recommendations for water control and ancillary structures within the western divisions of the NYS Canal System (walls, terminals, weirs, dams, gates, culverts, etc.). As a Team Leader, Collin was responsible for conducting the inspections safely and efficiently, coordinating with canals maintenance personnel (when necessary), and preparing the field inspection reports using CIMs software. Client: New York State Canal Corporation

National Highway Institute (NHI) Course Instruction for Bridge Inspection Courses 130053, 130055, & 130056. 2018 - Present. Certified Instructor. GPI is currently under contract by the FHWA to instruct several courses including Course 130053 – Bridge Inspection Refresher Training, 130055 – Safety Inspection of In-Service Bridges & 130056 – Safety Inspection of In-Service Bridges for PEs. Satisfactory completion of these courses fulfills current SNBI requirements for bridge inspection professionals. Instruction covers all aspects of bridge inspection including methods and techniques of inspection, deterioration mechanisms, scour inspection techniques, and NBI / Element Level rating systems. Mr. Cook instructs these courses to inspection professionals across the nation. Client: Federal Highway Administration (FHWA)

NYSCC Embankment Inspection Program, New York; 2021 - 2022. Team Leader. GPI was the Prime Consultant, providing water retaining embankment inspection services. As a Team Leader, Collin performed safety inspections and prepared field inspection reports with maintenance recommendations for 19 water impounding earthen embankments located along the New York State Canal System, Sections 7 & 8. Client: New York State Canal Corporation

Excelsior Solar (Genesee County, NY) & 8 Point Wind (Steuben County, NY) Road User Agreement Compliance. 2022-2023 Team Leader. GPI is contracted with an energy project developer to develop and implement a compliance plan for road user agreements associated with the hauling routes utilized for the construction of several large energy projects. Mr. Cook was responsible for the pre-construction inspection and assessment of bridges and culvert structures. Client: Next ERA Energy

NYSDOT Sign Inspection Program, Various Locations, New York; 2015 – Present. Team Leader. GPI is the Prime Consultant responsible for the annual structural condition inspection of ~500 overhead sign and high-mast lighting structures, located throughout the NYSDOT upstate Regions (1-7 & 9). After successfully completing the 2015-16, 2017-18, and 2019-20 term, GPI was again re-selected as the Prime Consultant for the 2021-24 term. As a Team Leader, Collin is responsible for leading an inspection team and documenting observed conditions in the EAM database. Client: NYS Department of Transportation

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2020 - 2021. Team Leader. Responsible for leading an inspection team, assessing element conditions, and preparing reports and updating inventory records in the EAM database system. Contract D037874 (2020-2021, Sub): 116 bridges – 191 spans. Client: Ravi Engineering / New York State Department of Transportation

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Condition Inspection, Lewiston NY, 2020 - 2021. Team Leader. GPI is the Prime consultant responsible for the inspection, maintenance recommendations and Level 1 load rating analysis for four bridges located at the Robert Moses Niagara Power Project (RMNPP) in Lewiston, NY. Collin was responsible for leading a bridge inspection team, preparing inspection reports, inventory verification, and updating the level 1 load rating data. Client: New York Power Authority

NYSDOT Region 5 Biennial Bridge Inspection, Various Locations, New York; 2010 - 2019. Team Leader. Responsible for conducting biennial and interim bridge inspections, preparing field inspection reports, inventory verification, updating the Level 2 Load Rating data and supervising additional inspection team members and bridge access subcontractors. Contract D030703 (2010-2011, Prime): 321 bridges – 536 spans, D030963 (2012-2013, Prime): 289 bridges – 626 spans, D031076 (2014-2015, Sub): 280 bridges – 607 spans, D031322 (2016-2017, Sub): 208 bridges – 387 spans, D037640 (2018-2019, Prime): 188 bridges – 378 spans. Client: CPL Engineering / New York State Department of Transportation

NJTA Inspection of Newark Bay Bridge & Laderman Bridge, New Jersey; 2018. Assistant Team Leader. ATL responsibilities including inspecting (with multiple teams) two very large, high traffic volume bridges which are critical links in the NYC/NJ metro area. The bridges included many fatigue details and fracture critical members that were inspected hands-on and thoroughly documented. Inspection challenges included coordination of multiple teams inspecting simultaneously on large complex structures. Additionally, difficult access conditions included limited lane closure windows due to high traffic volumes and working around Contractors performing on-going repairs. A comprehensive bridge inspection report was prepared and submitted to the Owner. Client: New Jersey Turnpike Authority

NYCDOT In-Depth Inspection for the Brooklyn - Queens Expressway, New York, New York; 2016. Bridge Inspection Team Leader. Mr. Cook was the Bridge Inspection Team Leader for the NYCDOT's program to restore the Brooklyn Queens Expressway. He performed in-depth inspections, prepared field inspection reports and gathered relevant data for level-1 load ratings on 8 bridges carrying the BQE in the vicinity of the Brooklyn and Manhattan Bridges in Brooklyn, NY. Client: New York City Department of Transportation

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Education Department
Office of the Professions

REGISTRATION CERTIFICATE

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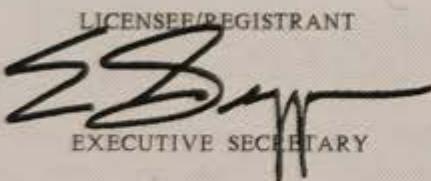
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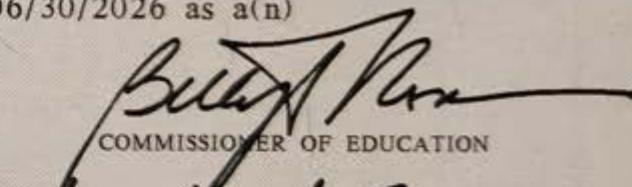
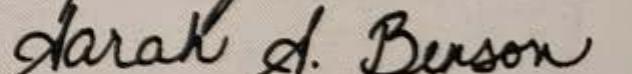
083438-01

Certificate Number: 2369946

COOK COLLIN MATTHEW
77 MONTBLEU DR.
GETZVILLE NY 14068-1330

is registered to practice in New York State through 06/30/2026 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

EXECUTIVE SECRETARY


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U.S. Department
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**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Collin Cook

has participated in

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

hosted by

South Carolina Department of Transportation

Date: January 07-18, 2019

Hours of Instruction: 67

Location: Columbia, SC

Randall Leonard

Instructor

C M Cook

Instructor

Local Coordinator

Michael Davies

Michael Davies, P.E.

Director, National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Collin M. Cook, P.E.

has Successfully Completed

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

hosted by

Consultant-GPI

Date: *March 26-28, 2024*

Hours of Instruction: **22**

Location: *Buffalo, NY*

Instructor

Instructor

Jon Hem
Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Collin M. Cook, P.E.

has Successfully Completed

***FHWA-NHI-130078 Bridge Inspection Techniques for
Nonredundant Steel Tension Members (NSTM)***

hosted by

Consultant-GPI

Date:

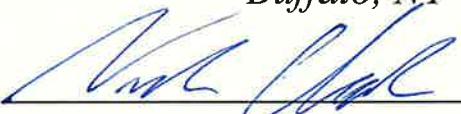
April 2-4, 2024

Hours of Instruction:

20

Location:

Buffalo, NY


Instructor


Instructor


Local Coordinator


Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute



U.S. Department of Transportation
Federal Highway Administration



CERTIFICATE OF TRAINING

Collin Cook

has participated in

NHI Course No. FHWA-NHI-134109I

Maintenance Training Series: Basics of Work Zone Traffic Control

Hosted by: National Highway Institute

Location: Web-Based Course

Date: 2/17/2023

Hours of Instruction: 1 hours

Thomas Harman

Thomas Harman, Director
National Highway Institute



PROPOSED PROJECT ASSIGNMENT

Team Leader

EDUCATION

BS / 2009 / Civil Engineering
AAS / 2007 / Engineering Science

REGISTRATION

2018 / Professional Engineer / NY 099544

YEARS WITH FIRM 10
TOTAL YEARS EXPERIENCE 13

CERTIFICATION / TRAINING

2023 / UAS Remote Pilot Certificate
2022 / NHI 130056 Safety Inspection of In-Service Bridges for Professional Engineers
2019 / NHI Inspection and Maintenance of Ancillary Highway Structures
2019 / OSHA 10hr Construction
2019 / OSHA Lockout/Tagout – Control of Hazardous Energy training
2020 / First Aid, CPR, AED
2020 / Emergency Oxygen Provider (O2)
2020 / Mobile Elevated Work Platform Safety Training
2017 / ATSSA Traffic Control Technician and Supervisor
2020 / Fall Protection Training
2020 / Confined Space Awareness Certification PADI Open Water Diver (#0109366819)

Professional Profile

Mr. Burke's experience consists of performing condition inspection, assessment and analysis for above-ground and below-water structures such as bridges, culverts, highway signage and lighting. He is also experienced with performing load rating analyses on bridges, culverts, piers, locks, and bulkheads. Mr. Burke routinely documents activity and authors reports for inspection assignments. He has also provided the analysis and design of support assemblies for bridge, culvert and lighting rehabilitation projects and bridge painting scaffold systems.

Representative Project Experience

NYSCC Systemwide Bridge Inspection and Load Rating, Various Locations, New York; 2022 – 2024. Team Leader. GPI was the Prime Consultant responsible for performing structural condition inspection and load rating services on approximately 100 pedestrian and vehicle bridges located throughout the NYS Canal System. Inspection reports were prepared in the Canals Infrastructure Management System (CIMS), in accordance with inspection rating criteria in the NYSCC Inspection Manual (CSIM-95). As a Team Leader, Jed was primarily responsible for leading an inspection team, assessing element conditions, estimating repair quantities and reporting observations. Client: New York State Canal Corporation

NYSTA Biennial Bridge and Other Structure Inspection Syracuse & Buffalo (2 contracts), Various Locations, New York; 2022 – present. Team Leader. GPI is a subconsultant providing structural condition inspection services. As a Team Leader, Jed is primarily responsible for leading a bridge and overhead sign structure condition inspection team, assessing element conditions and reporting the OSS conditions in a new sign structure application and bridge conditions in the SMS database. Client: Popli Design Group / New York State Thruway Authority

NYSDOT Region 4 Biennial Bridge Inspection, Various Locations, New York; 2022 – Present. UAS Pilot. GPI is the Prime Consultant responsible for NBIS inspection and load rating of over 650 bridges per year. GPI is responsible for project management, field inspection, quality control, load rating, hydraulic vulnerability analysis, critical finding repair design, fatigue analysis, load testing and WZTC plan development. As the UAS pilot, Jed files flight plans and works with the Team Leaders to develop real-time video collection to remotely observe current bridge element conditions in areas that may not be easily accessible by other means. Client: New York State Dept. of Transportation

New York State Canal Corporation Western Division Structural Inspections, Various Locations, New York; 2020 - 2022. Team Leader / QC Engineer. This two-year term contract included the inspection and structural evaluation of structures throughout western New York state on the Erie, Oswego and Cayuga-Seneca canal systems. The project included the inspection of locks, dams, sluice gates, terminals, retaining walls, guard gates, sluice gates and waste weirs and culverts. As a Team Leader, Mr. Burke's responsibilities included on-site structural condition assessment, and report preparation with repair recommendations and associated cost estimates. As a QC Engineer, Mr. Burke performed quality review of inspection reports authored by other Team Leaders. Client: New York State Canal Corporation

NYSDOT Overhead Sign Structure Inspection Program, Various Location, New York; 2021 – 2024. Team Leader: GPI is the Prime Consultant responsible for the structural condition inspection of over 1,500 overhead sign, mast arm traffic signal and high mast type structures throughout upstate Regions 1 - 7 and 9. Mr. Burke's responsibilities included hands-on, visual and tactile inspection of foundations, anchor bolts, welds and guide rail, non-destructive testing of structural components, recording of observed field conditions, condition reporting, load rating deficient structures, updating the client's database and maintenance of SIN folders. Client: New York State Department of Transportation

Similar Projects:	NYSDOT Upstate Region OSS1 (2019-20)	Team Leader
	NYSDOT Upstate Region OSS1 (2017-18)	Team Leader / Assistant Team Leader
	NYSDOT Upstate Region OSS1 (2015-16)	Assistant Team Leader
	NYSDOT Upstate Region OSS1 (2011-12)	Assistant Team Leader
	NYSDOT Upstate Region OSS1 (2009-10)	Assistant Team Leader

Olin Corporation Bridge Inspection; 2024. Team Leader. GPI was engaged to develop a Bridge Management plan for six (6) railroad, roadway and pedestrian bridges located at Olin's Niagara Falls Plant. The bridges were of various superstructure type, span configuration, and material type. The work includes, initial inspection, load rating and the development of a FRA compliant management plan. Jed was responsible for leading an inspection team and assessing the condition of the bridges through walking, wading, workboat and drone access. Jed prepared inspection reports to document the findings and the repair needs for each bridge. Jed is currently developing the bridge management documents. *Client: Olin Corporation*

Town of Clarence Pedestrian Bridge Inspection, Town of Clarence, NY; 2022. Team Leader. This project involved biennial bridge inspections and repair recommendations for a locally owned pedestrian bridge crossing a local roadway. Mr. Burke led the 2022 inspection of the bridge, prepared a detailed bridge inspection report and estimated quantities for areas in need of repair. Since the bridge is generally in good condition, emphasis is placed on preservation activities to ensure safety and extend the service life of the structure. Client: Town of Clarence

Caplugs 2018 & 2022 RR Spur Bridge Inspection, Buffalo, New York; 2018 & 2022. Assistant Team Leader (2018) / Team Leader (2022). GPI performed a structural inspection of the steel, through-girder bridge to assess the condition and functionality of the structure. Responsibilities included hands-on, visual and tactile inspection of bridge elements and documenting the findings. Client: Protective Industries, Inc.

Below Water Inspections for NYS Canal Corporation, Systemwide, New York; 2019. Mr. Burke was contracted through GPI to perform in-office engineering services for the Canal Authority. Mr. Burke completed the Quality Assurance approval review for over 600 inspection reports. Mr. Burke compiled the inspection data to assist in the management of the Canals capital programs. Client: New York State Canal Corporation

NYSDOT Region 5 Biennial and Interim Bridge Inspections Various Location, New York; 2018. Assistant Team Leader. GPI is the Prime Consultant providing structural condition inspection services for bridge structures throughout Region 5. Mr. Burke is responsible for assisting the Team Leader in gathering and logging field data from the site visits to document structure conditions. Client: New York State Department of Transportation

MCDOT Lighting Rehabilitation Program, Various Locations, New York; 2017 - 2024. Team Leader / Design Engineer. GPI was engaged with the Monroe County Lighting Rehabilitation Program through its duration. The goal of the program was to improve operating reliability and reduce energy use through fixture and control replacement, structural repairs, and structural replacement. GPI developed a field inspection and assessment methodology to determine the lighting system conditions needs. Collected data was evaluated to develop structural repair and replacement strategies. LED fixture replacement specifications were developed to maintain current lighting levels. Client: Monroe County Department of Transportation.

Central Project (2021-22)	Inspection Team Leader / Structural Design Engineer
Northeast I Project (2018)	Inspection Team Leader
Northwest I Project (2017)	Inspection Team Leader

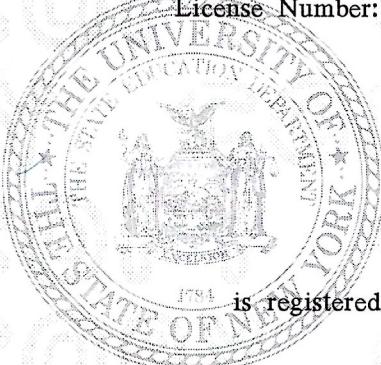
***New York State Canal Corporation Above-Water Inspection of Canal Structures, Statewide, New York;** 2009 – 2010. Assistant Team Leader. Mr. Burke assisted in performing structural inspection of over 150 canal structures including locks, moveable dams, guard gates, small bridges, fixed crest dams, spillways and dive culverts. In addition to the field inspections, written reports are prepared in the NYSCC CIMS Database. Reports included the rating of applicable elements, commenting on condition, photographic documentation and repair recommendations. Client: New York State Canal Corporation

* - Work performed prior to joining GPI

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REGISTRATION CERTIFICATE
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Certificate Number: 2645939



BURKE JEDEDIAH MICHAEL
2640 PENFIELD RD
FAIRPORT NY 14450-0000

is registered to practice in New York State through 11/30/2026 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

A handwritten signature in black ink.

EXECUTIVE SECRETARY

A handwritten signature in black ink.
BETTY A. ROSA
COMMISSIONER OF EDUCATION

A handwritten signature in black ink.
SARAH D. BENSON
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Jedediah Burke, PE

has Successfully Completed

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

hosted by

Lu Engineers

Date: February 28-March 04, 2022 Hours of Instruction: 34

Location: Buffalo, NY

CM Cark

Instructor

John Harman

Instructor

Judy Buckwal

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Jedediah Burke

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

Connecticut Department of Transportation

Date: ***Sept. 24- 25, 2019***

Hours of Instruction: ***11***

Location: ***Newington, CT***

Steven J Miller

Instructor

Walt Yau C

Instructor

Mehl B Brant

Local Coordinator

Michael Davies

Michael Davies, P.E.

Director, National Highway Institute





FAA
Aviation Safety

Certificate of Achievement

This is to certify that

Jedediah M Burke

has successfully completed the
FAA Safety Team Aviation Learning Center Online
Course

Part 107 Small Uas Recurrent

Course Number ALC-677

Presented by FAASTeam

February 21, 2025

Certificate Number 1398617-20250221-00677

A blue ink signature of Patricia Mathes is written over a blue horizontal line.

Patricia Mathes, Manager, National FAA Safety Team



Cut out the small certificate above and keep with your airman certificate. You should keep the remainder of this sheet in a safe place in case you lose your certificate above.

Your Name

Jedediah M Burke

Your faasafety.gov Registered Username

jedbrk@gmail.com

Course Completed

Part 107 Small Uas Recurrent

Course Completion Date

February 21, 2025

Course Completion Certificate Number

1398617-20250221-00677



EDUCATION

B.S. Civil Engineering
SUNY Buffalo
A.A.S. Engineering Science
Erie Community College

CERTIFICATIONS

Professional Engineer
State of New York
License No. 09298, exp.
1/31/2025

SPECIALIZED TRAINING

NYSDOT Bridge Inspection
Workshop/ Albany, NY, 2010

10-Hour Occupational Safety
and Health Training Course,
Construction Safety and
Health, 2012

ACI Concrete Field Testing
Technician – Grade I, 2013

AASHTO Element Level Bridge
Inspection/ Syracuse, NY, 2015

NYSDOT Bridge Inspectors
Meeting (NYS Bridge Refresher),
2015-2019, 2021

NHI 130056 – Safety Inspection
of In-Service Bridges for PE,
2018

CSX and Norfolk Southern
Contractor Safety Protection
Training, 2019

Bridge Inspectors Refresher,
2021

ANSI 92.24/92/22 Mobile
Elevating Work Platforms, Types
1, 2 & 3



ABOUT

Mr. Lachina's bridge inspection experience dates back to 2012. He is currently providing inspection services to New York Power Authority/Canal Corporation, NYSDOT Region 5, and NYSTA in the Western Division. Mr. Lachina has worked as a Team Leader on NYSDOT's Biennial and Interim Bridge Inspections in Regions 3, 5, and 9, the Buffalo and Syracuse Divisions of the NYSTA, and the Port Authority of New York and New Jersey. Previously, he served as an Assistant Team Leader responsible for inspecting local bridges in Region 4, 5, and Region 9 East, as well as the Buffalo and Syracuse Divisions of the NYSTA. Mr. Lachina has performed Level 1 Load Ratings, and has provided design services for NYPA/Canal Corporation as well as NYSTA structural projects.

PROFESSIONAL EXPERIENCE

NYSTA 2024-2025 Biennial Bridge Inspection, Buffalo and Syracuse Divisions, 07/2024-10/2024
Mr. Lachina provided inspection, prepared inspection reports and verified inventory utilizing EAM.

NYSDOT D900058 Design/Build Livingston Avenue Railroad Bridge Replacement Project, R1, 06/2024-08/2024

As Team Leader, Mr. Lachina conducted detailed inspection of BIN 7709021 and 7092900 to determine current condition, documented existing defects, and documented geometry to facilitate necessary repairs. The structures consisted of multiple riveted 2-girder deck girder sets with open deck and ties topset on girders with riveted cross frames throughout.

NYSDOT D038195 Biennial Inspection Region 5, Team Leader - 3/2023-Ongoing

Mr. Lachina performs bridge maintenance inspections for NYSDOT as Team Leader for Local and State bridges using BDIS. The project consists of the inspection of approaches, substructures, decks, superstructures, highway safety features, stream channels, substructure erosion/scour, and hands-on inspection of fatigue-prone and fracture-critical details in the surrounding areas.

New York Power Authority/Canal Corporation, Statewide Canal Structures Inspection, 191303.5 Canals Western Division Inspections, NY - 11/2023-04/2024, 05/2024-09/2024

As a Team Leader, Mr. Lachina performed visual inspection of the above water portion of various structures along the Erie Canal. Work includes guard gates, movable dams, tainter gates, spillways and aqueducts and providing electronic inspection reports in the NYSCC program, "CIMS" to document the condition of the structures.

New York Power Authority/Canal Corporation, Statewide Canal Structures Inspection, Eastern Region, NY - 7/23-2/2024

Mr. Lachina was the Team Leader for this project, performing visual inspection of the above water portion of various structures along the Erie Canal. Electronic inspection reports were provided in the NYSCC program, "CIMS" to document the condition of the structures.

NYSBA Maintenance Inspections - 4/2022-5/2022

Mr. Lachina performed bridge maintenance inspections for NYSBA as Team Leader using BDIS. The project consisted of the inspection of approaches, substructures, decks, superstructures, highway safety features, stream channels, substructure erosion/scour, and hands-on inspection of fatigue-prone and fracture-critical details in the surrounding areas.

City of Rochester, Aqueduct Reimagined & Riverfront Promenades - 3/2022

Mr. Lachina was a Team Leader for the inspection of the Aqueduct in preparation for the transformative Roc the Riverway project. He provided hands-on inspection of the structure and developed reports that documented the findings of the inspection team.

NYSTA D214740 Biennial Bridge Inspection, Buffalo & Syracuse Divisions - 5/2020-1/2022

Under this contract as a Team Leader, Mr. Lachina inspected 31 bridges, inclusive of 307 spans. He prepared field inspection reports, inventory verification, and Level II Load Rating updates. Mr. Lachina performed inspections and supervised the team responsible for the inspection of bridges, overhead signs, and high-mast light structures. Nighttime lane closures and night inspection were included in this project.

NYSDOT D037873 Regions 3 & 7 - 5/2020-8/2021

Mr. Lachina provided inspection services as Team Leader. Structure types included steel multi-girder, steel thru-truss, and prestressed concrete box beams. Inspections included the use of an under bridge inspection unit (UBIU) and bucket truck, with work zone traffic control. He was responsible for the inspection of 61 bridges, inclusive of 199 spans in Region 3 and the inspection of 7 bridges, inclusive of 10 spans in Region 7.

PROFESSIONAL EXPERIENCE CONTINUED

NYSDOT D037875 Region 5, Buffalo, NY - 11/2020-8/2021

Mr. Lachina was the Team Leader and provided inspection services of 59 State and locally owned bridges, inclusive of 109 spans. Upon completion of each inspection, he prepared field inspection reports and verified inventory utilizing BDIS.

NYSDOT D031465 Diving Inspection and Fathometer Survey of FDR and Harlem River Corridor, NY - 2/2020-3/2020

Mr. Lachina was a Team Leader for the below-water inspection of nearly 4 miles of concrete and masonry-faced seawall, platforms, high-level decks, sheet piling, timber cribbing and rip rap. He also conducted "swim-by" examination of over several thousand timber and concrete-encased piles along Manhattan's East and Harlem Rivers. The work required oversight of a two-man dive team and preparation and submission of narrative inspection reports, which included drawings that documented the existing configuration of each type of waterside structure encountered and the deterioration found, as well as photographic documentation and repair recommendations.

NYSDOT D037640 and NYSDOT D031322 Biennial and Interim Inspections of Local and State-owned bridges in Region 5, Buffalo, NY - 2018-2019 and 2016-2017

As Team Leader, Mr. Lachina prepared field inspection reports, inventory verification, and Level 2 Load Rating updates on 150 Bridges inclusive of 324 spans and 118 Bridges inclusive of 256 spans. Mr. Lachina also prepared field inspection reports, inventory verification, and Level 2 Load Rating updates on 93 Bridges inclusive of 217 spans.

NYSDOT DA31320 Biennial and Interim Inspections of Local and State-owned bridges in Region 3, Syracuse, NY - 2016-2017

Mr. Lachina prepared field inspection reports, inventory verification, and Level 2 Load Rating updates on 27 Bridges inclusive of 69 spans, including rope access inspection on three bridges.

NYSDOT D031374 Biennial & Interim Bridge Inspection, Regions 3 & 7, Syracuse, NY - 2014-2015

Mr. Lachina was a Team Leader for the Biennial Bridge Inspection in Regions 3 and 7. He was responsible for the inspection of approximately 250 State and Local bridges, including rope access inspection on three bridges in 2015, and one rope access inspection in 2014.

NYSDOT, D031076, Biennial Bridge & Interim Inspection, Region 5, Buffalo, NY - 2014-2015

Mr. Lachina was the Team Leader responsible for inspection of approximately 250 state and local bridges. During this inspection season, he participated in rope access inspection of two sister bridges carrying Route 219 over Cattaraugus Creek.

NYSDOT, D030963, Biennial and Interim Inspections, Region 5, Assistant Team Leader, 2012-2013

Assisted with the inspection of approximately 30 local bridges.

NYSTA, D214073, Biennial Bridge and Overhead Sign Inspection, Buffalo and Syracuse Divisions, NY - 2012-2013

Assistant Team Leader for the inspection of bridges and overhead sign structures along The New York State Thruway System. Tasks involved collection of existing field data, updating and verifying bridge inventory information, and updating bridge load rating information per NYSTA standards

NYSTA/Canal Corporation, D214006, Rehabilitation of Moveable Dam 4 and Southeast Approach Wall at Lock E-8, Albany Division, NY - 2012-2013

Assistant Team Leader/Design Engineer for this project that included providing design support services for the rehabilitation of Movable Dam 4 and the Southeast Approach Wall at Lock E-8 on the NYS Barge Canal System in the Albany Division. Lock E-8 is located at the western end of the City of Schenectady in the Towns of Glenville and Rotterdam, NY

NYSTA/Canal Corporation, D214049, Movable Dams 7 and 9 on Mohawk River, NY - 2012

Design Engineer responsible for calculations to determine the section properties and self-weight of the truss members, floor beams, cross-bracing and walkways.

NYSDOT D030611, I-81 Corridor Study, Region 3, Syracuse, NY - 2012

Design Engineer responsible for performing cost estimate calculations for the rehabilitation of interstate bridges. Reviewed bridge inventory information and inspection condition reports to create a quantity and cost estimate using engineering judgment to determine the extent of rehabilitation required to improve each bridge's general condition rating to an acceptable rating.

NYSDOT D037640 and NYSDOT D031322 Biennial and Interim Inspections of Local and State-owned bridges in Region 5, Buffalo, NY - 2018-2019 and 2016-2017

As Team Leader, Mr. Lachina prepared field inspection reports, inventory verification, and Level 2 Load Rating updates on 150 Bridges inclusive of 324 spans and 118 Bridges inclusive of 256 spans. Mr. Lachina also prepared field inspection reports, inventory verification, and Level 2 Load Rating updates on 93 Bridges inclusive of 217 spans.

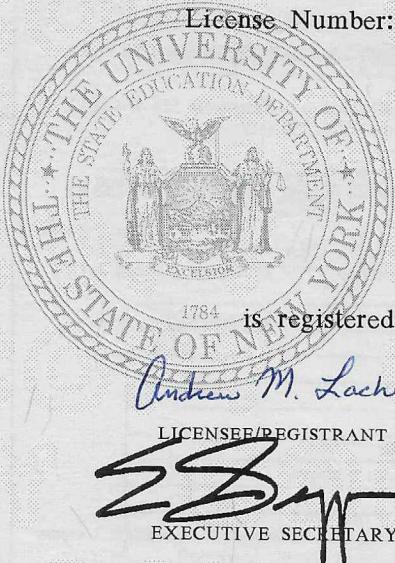
*The University of the State of New York
Education Department
Office of the Professions*

REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number:

092598-01

Certificate Number: 3117635



LACHINA ANDREW MICHAEL
25 PAMELA CT
DEPEW

NY 14043-2137

1784 is registered to practice in New York State through 01/31/2028 as a(n)
PROFESSIONAL ENGINEER

Andrew M. Lachina

LICENSEE/REGISTRANT

[Signature]
EXECUTIVE SECRETARY

Beth A. Phelan
COMMISSIONER OF EDUCATION
Dawn H. Hall
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Andrew Lachina

has participated in

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

hosted by

Greenman-Pedersen, Inc.

Date: March 26-30, 2018

Hours of Instruction: 34 Hours

Location: Buffalo, NY

Dennis R. Brueghen, P.E.
Instructor

Instructor

C M Cook

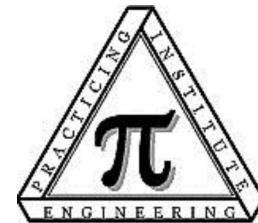
William F. Puga
Local Coordinator

Valerie Briggs

Valerie Briggs, Director
National Highway Institute



Department of Transportation



CERTIFICATE OF COURSE COMPLETION

This certifies that *Andrew Lachina* has completed

2019 Bridge Inspectors Meeting

Professional Development Hours Awarded: 8

This course is accredited for the profession(s) of: Professional Engineering
Course #DOT19020 PE

Location: Albany

Date: March 26-27, 2019

A handwritten signature in blue ink that reads "Carlos Rinne".

Continuing Education Coordinator

PIE Organization#SM000007

Accreditation of training performed under the auspices of
The Practicing Institute Of Engineering, Inc.
6 Airline Drive, Albany, NY 12205

To confirm the acceptance of these credits outside NYS, please consult the licensure board of the state.

Cornell University LOCAL ROADS PROGRAM

Certifies

Andrew Lachina

6.5 PROFESSIONAL DEVELOPMENT HOURS

will be earned for attending the following PDH worthy sessions at the

2021 Bridge Inspectors Meeting

Session 1 – BIM Update (1.0 PDH)

- Bridge Inspection Program Update 2019 Season; Mark Struzinski, PE (60 min.)

Session 3 - Aerial Lifts (0.5 PDH)

- Mobile Elevating Work Platforms Devices; Brian Gibney, PE (30 minutes)

Session 4 – Miami FIU University Prosperity Pedestrian Bridge Project (1.0 PDH)

- Studies Related to Collapse During Construction; Gary Klein (60 minutes)

Session 5 – Culverts, Inspection (1.0 PDH)

- Failure Modes; Lallman Rambali, PE (60 minutes)

Session 6 – Trusses and Gusset Plates (1.0 PDH)

- Studies Related to Collapse During Construction; Gary Klein (60 minutes)

Session 7 – Environmental Considerations During Bridge Inspections (0.5 PDH)

- Birds, Bats, and Mussels; Christa Ippoliti (30 minutes)

Session 8 – Noxious and Hazardous Plants (0.5 PDH)

- Along Highways and Bridges; Laura Grenenger, PE (30 minutes)

Session 9 – Inspection of the George Washington Bridge (1.0 PDH)

- Steve Vecchione, PE (60 minutes)

Held virtually March 23-24, 2021



A handwritten signature in black ink that reads "Andrew Lachina".

NYS Department of Education Number 9006

Director, Cornell Local Roads Program



CSX Roadway Worker Protection
Training for Railroad Contractors

Andrew Lachina

Lu Engineers



8195643

Issued: 05 Mar 2024 Expires: 05 Mar 2025





U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Andrew Lachina

has Successfully Completed

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

hosted by

Consultant-GPI

Date: March 26-28, 2024

Hours of Instruction: 22

Location: Buffalo, NY

Instructor

Instructor

Don Hens
Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute



Department of
Transportation

New York State
Department of Transportation
Certificate of Training

Andrew M. Lachina

has successfully completed

2022 Bridge Inspection Meeting & Bridge Inspection Refresher Training

hosted by NYSDOT and Cornell Local Roads Program

Location: Web-Based Course

Hours of Instruction: 7.5 hours

Date: 3/8/22-3/9/22



Mark L. Struzinsky, P.E.

Bridge Inspection Unit Head

New York State Dept. of Transportation



James H. Flynn, P.E.

Deputy Chief Engineer (Structures)

New York State Dept. of Transportation



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Andrew Lachina

has Successfully Completed

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

hosted by

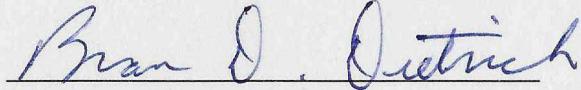
NYS Department of Transportation

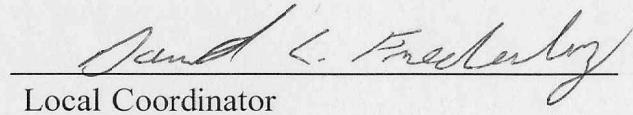
Date: *March 12-14, 2024*

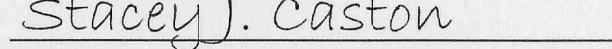
Hours of Instruction: 20

Location: *Syracuse, NY*


Instructor


Instructor


Local Coordinator


Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

Mr. Beardsley is experienced in bridge replacement and rehabilitation projects. His experience includes railroad, historic, cable suspension, arch, and truss bridges. Mr. Beardsley also has experience with in-depth bridge inspections. He has been a NYSDOT Load Rating Engineer for over 1,300 bridges.

PROJECT EXPERIENCE

NYSTA D214617, Term Agreement for Highway Design Services for Albany, Syracuse & Buffalo Division; Syracuse, NY

This project involved the rehabilitation of the I-90 bridge over Onondaga Outlet (MP 287.25). The bridge is a 3-span, 450-ft long, steel multi-girder bridge with a pin & hanger span that had received a splice retrofit. The steel multi-girders were comprised of riveted built-up haunch girders. Mr. Beardsley was the structural engineer responsible for leading the preparation of the Level I Load Rating (existing and proposed) and the final design for the rehabilitation scope of work selected for the structure. Design: 2017-2021 | Construction: 2022-2024

NYSDOT D031344, Region 4 Monroe County Canal Lift Bridge Rehabilitation, Villages of Fairport and Spencerport, NY

This project involved bridge repairs to the canal lift bridges in the villages of Fairport and Spencerport, Monroe County. Mr. Beardsley was responsible for preparing Level I Load Ratings for two lift bridges over the Erie Canal: Route 259 in the Village of Spencerport and Route 250 in the Village of Fairport. These Level 1 analyses were used to determine the limits of truss member rehabilitation for the different structures. Design: 2016-2018 | Construction: 2019-2021

NYSDOT D037682-02, US Route 20 Rehabilitation, Town of Elma, NY

This project assignment involved the Condition Assessment of the U.S. 20 (Transit Road) bridge over Cazenovia Creek (BIN 1015520). The bridge was a 7-span, 830 ft long, concrete spandrel arch bridge. The purpose of the condition assessment was to conduct a detailed hands-on inspection/assessment of the entire bridge below the deck. Mr. Beardsley was the Lead Structural Engineer coordinating the findings of the assessment between NYSDOT and field staff, ensured that the project deliverables met the NYSDOT projects specifications, and managed the delivery of the concrete testing results. Design: 2019

NYSDOT D031075, Region 4 Biennial and Interim Bridge Inspection

Load Rating Engineer responsible for scheduling and quality control of 201 State and 319 Local Level II Load Ratings and three Level I Load Ratings for large trusses over the Erie Canal. Despite 150 additional State bridges being assigned between June through December 2014, Ben and his team completed all work on time, which included 40 canal truss bridges requiring immediate attention due to newly discovered deficiencies. This resulted in 40 load-rating flags, many load posting changes, repairs, and/or bridge closures. Design: 2014-2016

City of Auburn, Aurelius Avenue Bridge over Owasco Outlet, Auburn, NY

This locally administered, federally funded, BRIDGE-NY project will consist of the rehabilitation or replacement of the bridge and approaches. The existing bridge is a two span, closed spandrel stone arch bridge built in 1886. The bridge is constructed of ashlar limestone and has two 35-ft circular segmental arch spans with an overall length of 100 feet. The bridge has a 25-ft wide roadway, 3-ft wide "curbs" over the spandrel walls and 5-ft cantilever concrete sidewalks that are supported on steel brackets. The sidewalks were added to the original structure around 1928 and were last replaced in 1993. Mr. Beardsley was the structural engineer responsible for leading the preparation of the Level I Load Rating and the preliminary design for both the rehabilitation and replacement scopes of work. Design: 2021-2024

New York State Canal Corporation, Inspection Team Leader.

Underwater Inspection of various structures along the NYS Canal Systems. Mr. Beardsley was an inspection team leader for the inspection of 20 different canal structures (sluice gates, spillway, fixed crest dams, and guide walls) and prepared the inspection reports to NYS Canal Corporation Standards, including input into CIMS. Design: 2011 – 2014



LICENSES

Professional Engineer:

- New Jersey
Lic # 24GE05430400 (2018)
- New York
Lic. # 083414 (2006)

EDUCATION

Combined Master Engineering / BS Civil Engineering, 2000,
University at Buffalo, The State University of New York

AS, 1997, Engineering Science,
Alfred State College

AFFILIATIONS

Association of Bridge Construction and Design (ABCD), Western New York Chapter

American Society of Civil Engineers (ASCE), Rochester Section

New York State Association of Traffic Engineers (NYSATE), Section 4

TRAINING

OSHA 10 Hour Course

Fall Protection Training

MEWP Certified

EXPERIENCE

24 Years

BEARDSLEY BENJAMIN PAUL

X

LICENSEE INFO

Address	WEBSTER NY
Profession	Professional Engineering (016)
License Number	083414
Date of Licensure	January 18, 2006
Status	Registered
Registered through Date	April 30, 2026
Additional Qualifications	<ul style="list-style-type: none">• None



February 20, 2025 10:19 AM (ET)

[https://eservices.nysed.gov/professions/verification-search?
licenseNumber=083414&professionCode=016](https://eservices.nysed.gov/professions/verification-search?licenseNumber=083414&professionCode=016)



ABOUT

Mr. Seely is a highly experienced professional engineer, providing inspection services for NYS Bridge Authority, NYS Canal Corporation, NYPA, NYSDOT and New Jersey Turnpike Authority in the capacity of Team Leader and Assistant Team Leader since 2016. He is experienced in CIMS, BDIS, and EAM. Prior to his work as a consultant inspector he worked as a Project Manager for Heavy Industrial Contractors. His projects included a broad range of bridge projects including high traffic NYSTA projects, railroad bridges, lift bridges, pedestrian bridges and elevated sections of expressways.

PROFESSIONAL EXPERIENCE

D038195 New York State Department of Transportation, Biennial Bridge Inspection, R5 Team Leader, 6/2022-Ongoing

NYSDOT Biennial and Interim Bridge Inspection in Region 5. Structure types include steel multi-girder, steel thru-truss and prestressed concrete box beams. Inspections include the use of under bridge inspection unit (UBIU) and bucket truck with work zone traffic control. As Team Leader he also supervises the Assistant Team Leader and any other personnel on site during the inspection. Inspections also include documentation, measurements and photos of the current condition of the bridges and updating the current load rating and bridge plans via EAM (formerly BDIS).

D214938 New York State Thruway Authority, Biennial Bridge Inspection, Syracuse Division, Team Leader, 6/2024-11/2024

Mr. Seely is providing inspection services for this NYSTA contract. He is conducting visual inspection of the Authority bridges, once the inspection is complete, he is documenting his findings in reports. This work is conducted in high levels of traffic, moving at high speed and includes night inspections.

D037873 New York State Department of Transportation, Biennial Bridge Inspection, R3 Team Leader, 5/2021-3/2022

NYSDOT Biennial and Interim Bridge Inspection in Region 3. Structure types include steel multi-girder, steel thru-truss and prestressed concrete box beams. Inspections include the use of under bridge inspection unit (UBIU) and bucket truck with work zone traffic control.

New York State Bridge Authority, Bridge Maintenance Inspections, 3/2021-5/2021

Mr. Seely was part of the team, as a secondary team leader providing field inspection of the Hudson River crossings at Bear Mountain Bridge, Rip Van Winkle Bridge and Kingston-Rhinecliff Bridge. At Bear Mountain Bridge, inspection items included West approach spans (3 spans) multi-girder superstructure; stiffening trusses, floorbeams, stringers in main suspended and both back spans; Pier towers; main suspension cables; suspender cables; and concrete deck. At Rip Van Winkle Bridge, inspection items included reinforced concrete abutments, expansion joints, approach roadways & embankments, and light standards. At Kingston-Rhinecliff Bridge, Inspection items included West approach spans (12 spans) two-girder and floorbeam superstructure; Main spans (10 spans) deck truss and floorbeam superstructure; East Approach spans (9 spans) two-girder and floorbeam superstructure; reinforced concrete piers; reinforced concrete deck; maintenance and inspection catwalk; and parapets & railings. 2021 Inspections NYSBA: 3 bridges (50 spans)

New York State Canal Corporation Statewide Canal Structures Inspection Support Services, 3/2021

Mr. Seely was team leader for this subconsultant contract. He conducted visual inspection of above water portions of a 2-span, steel girder pedestrian bridge over a cast-in-place concrete spillway.

Previous Experience:

New York State Power Authority – Bridge Inspections, 8/2020-2/2021 – Team Leader for biennial inspection of bridge carrying NY Route 104 and Niagara Scenic Parkway NB & SB over the Niagara Power Project in Lewiston, NY. Performed field inspection and prepared field inspection reports, inventory verification. Developed and produced summary and repair recommendation report including cost estimates for repairs. 2020 Inspections NYPA: 1 Bridge (34 spans)

New York State Canal Corporation Statewide Canal Structures Inspection Support Services, 11/2020 – 12/2020

Mr. Seely was team leader (as an employee of GPI) for this contract. He conducted visual inspection of above water portions of 6 structures in the Western Division including 1 bypass culvert, 2 terminal walls, 2 retaining walls and 1 canal wall. Upon completion of the field inspections, he prepared electronic inspection reports in NYSCC program, "CIMS" to document the condition of the structures.

The University of the State of New York
Education Department
Office of the Professions
REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number:

100192-01

Certificate Number: 2814643

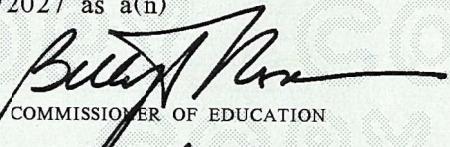


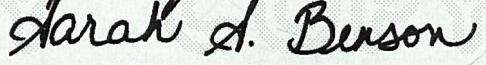
SEELY KEVIN MICHAEL
5876 MARION DR
LOCKPORT NY 14094-0000

is registered to practice in New York State through 05/31/2027 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

EXECUTIVE SECRETARY


COMMISSIONER OF EDUCATION


DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Kevin Seely

has participated in

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

hosted by

Greenman-Pedersen, Inc.

Date: June 5-16, 2017

Hours of Instruction: 67

Location: Annapolis Junction, MD

HCRsgn Jr. - P.E.

Instructor

James A. Dunn PE

Instructor

Kyle E. J.

Local Coordinator

Valerie Briggs

Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Kevin M. Seely, PE

has Successfully Completed

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

hosted by

Consultant-GPI

Date: March 26-28, 2024

Hours of Instruction: 22

Location: Buffalo, NY

Instructor

Paul E. Dul

Instructor

Local Coordinator

Don Henn

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

CERTIFICATE of COMPLETION

THIS ACKNOWLEDGES THAT

Kevin Seely

HAS SUCCESSFULLY COMPLETED THE

Dam Safety Awareness Training

6/17/2022

Barry Anctil

Dam Safety Training Coordinator



**NY Power
Authority**

**Canal
Corporation**



Department of
Transportation

New York State
Department of Transportation
Certificate of Training

Kevin M. Seely

has successfully completed

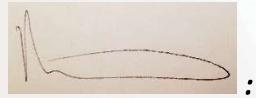
2022 Bridge Inspection Meeting & Bridge Inspection Refresher Training

hosted by NYSDOT and Cornell Local Roads Program

Location: Web-Based Course

Hours of Instruction: 7.5 hours

Date: 3/8/22-3/9/22



Mark L. Struzinsky, P.E.

Bridge Inspection Unit Head

New York State Dept. of Transportation



James H. Flynn, P.E.

Deputy Chief Engineer (Structures)

New York State Dept. of Transportation

Cornell University LOCAL ROADS PROGRAM

Certifies

Kevin M. Seely

7.5 PROFESSIONAL DEVELOPMENT HOURS
will be earned for attending the following PDH worthy sessions at the
2022 Bridge Inspectors Meeting

Session 1 – Program Update (1.0 PDH)

Bridge Inspection Program Update 2022 Season; Mark Struzinski, PE (60 min.)

Session 4 - Fall Protection Refresher & Ladder Safety (1.0 PDH)

Brian Gibney, PE (60 minutes)

Session 5 – Buried Structures (1.0 PDH)

Jesse Beaver (60 minutes)

Session 6 –Invasive Species (0.5 PDH)

Peter Dunleavy (30 minutes)

Session 7a – SE Inspection Part 1 (1.0 PDH)

Sougata Roy (60 minutes)

Session 7b – SE Inspection Part 1 (1.0 PDH)

Sougata Roy (60 minutes)

Session 8a – SE Inspection Part 2 (1.0 PDH)

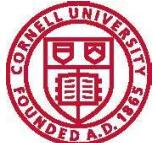
Sougata Roy (60 minutes)

Session 8b – SE Inspection Part 3 (1.0 PDH)

Sougata Roy (60 minutes)

Non-PDH Worthy Sessions and Talks are not shown on this certification

Held virtually March 8-9, 2022



A handwritten signature in black ink that reads "Kevin M. Seely".

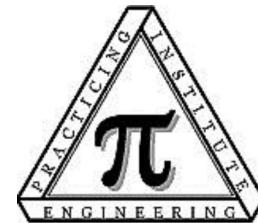
NYS Department of Education Number 9006

Director, Cornell Local Roads Program

Printed: May 18, 2022



Department of Transportation



CERTIFICATE OF COURSE COMPLETION

This certifies that ***Kevin Seely*** has completed

2019 Bridge Inspectors Meeting

Professional Development Hours Awarded: 8

This course is accredited for the profession(s) of: Professional Engineering
Course #DOT19020 PE

Location: Albany

Date: March 26-27, 2019

A handwritten signature in blue ink that reads "Carlos Rinne".

Continuing Education Coordinator

PIE Organization#SM000007

Accreditation of training performed under the auspices of
The Practicing Institute Of Engineering, Inc.
6 Airline Drive, Albany, NY 12205

To confirm the acceptance of these credits outside NYS, please consult the licensure board of the state.

Benjamin Houston, PE

14 Lund Court, Woodstock, NY | bhouston@mpengineers.com



Professional Summary

Mr. Houston has a broad background in public health engineering, utilities infrastructure, and stormwater management. He has worked as an engineer and a GIS analyst at for-profit and non-profit consulting companies and with local government agencies including County Departments of Planning, Public Works, and Public Health. His focus for the past 10 years has been using airborne LiDAR data for topographic mapping and raster-based terrain analysis and was an early pioneer in working with small drones to enhance their value as tools for inspection, surveying and mapping activities. He was recently an adjunct professor at the Bard Center for Environmental Policy and was elected to the NYS GIS Association Board of Directors in 2017.

Work Experience

Senior Project Engineer / M&P Engineering and Land Surveying, PLLC

February 2025 - Present, Skaneateles, NY

Team Leader on NYSCC Inspections, familiarization with the NYSCC Inspection Manual and rating system, data upload and QC in CIMS.

Supervise engineering and surveying activities, budgets and deliverables, perform process quality control and lead technical writing activities. Primary liaison with prime contractors and lead independent business development activities for M&P.

Senior Engineer-Owner / GroundPoint Engineering, PLLC

May 2012 – December 2024, Woodstock, NY

Responsible for all aspects of business development, client management, production, delivery, and quality control. Recently developed projects focused on infrastructure inspection and high-resolution data scanning and imaging. Previously developed projects involving high-resolution land cover mapping, LiDAR-based consulting (classification, quality control reviews, and topographic data processing), and high-resolution drainage mapping to include catchment delineation and development of runoff characteristics. Key recent projects include supporting the NYS Thruway Service Area Redevelopment project and NYS Canal Corporation regional infrastructure inspection.

Senior Engineer-Owner / Spatial Analytix, LLC

May 2015 – December 2018, Woodstock, NY

Responsible for the development of mapping and survey grade data from remote sensing platforms, including ortho-imagery, terrain data, planimetric mapping, and other information to support engineering design applications, topographic mapping, and drainage analysis. Developed projects focused on high-resolution drainage, catchment delineation, and runoff characteristics. Key projects include supporting the Town of Whitehall, PA stormwater infrastructure assessment, drainage improvement study at the Federal Job Corps Academy in Oneonta, NY, and supporting geospatial and environmental analysis for a Bard College Micro-Hydropower study in Red Hook, NY.

Senior Scientist-Owner / GroundPoint Technologies, LLC

February 2009 – December 2019, Woodstock, NY

Responsible for the development of GIS data from airborne LiDAR and digital imagery, including terrain, land cover and impervious surface data, high-resolution wetlands, and drainage analysis data products. Developed and led projects nationwide. Key projects include partnering with the University of Vermont Spatial Analysis Laboratory to perform high-resolution land cover and impervious surface analysis for both the County of Los Angeles and the City of New York.

Program Manager / The Institute for the Application of Geospatial Technology

June 2003 – June 2009, Auburn, NY

Responsible for supporting a wide range of GIS and Remote Sensing projects at this NASA-funded non-profit institution focused on geospatial technology transfer. Projects included floodplain mapping, water quality modeling, lake clarity assessments, and environmental screening applications.

Special Operations Officer / United States Army Civil Affairs Command

September 1991 – June 2003, Auburn, NY

Qualified as a Combat Engineer, Topographic Engineer, Public Health Engineer, and Special Operations Staff Officer. Completed tours of active duty as a Platoon Leader, Company Executive Officer, Battalion Staff Officer, and Special Operations Team Leader.

Education

North Carolina State University / MS, Hydrogeology, 1998

Colorado School of Mines / BS, Geological Engineering, 1991

Professional Registrations

New York State Professional Engineering License Number #081011

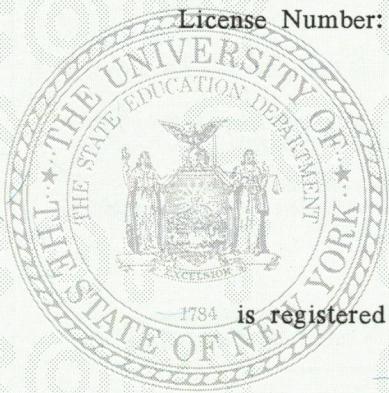
FAA Part 107 UAS License

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Education Department
Office of the Professions
REGISTRATION CERTIFICATE
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License Number:

081011-01

Certificate Number: 2686253



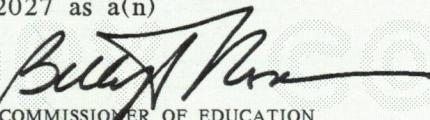
HOUSTON BENJAMIN H
14 LUND COURT
WOODSTOCK NY 12498-0000

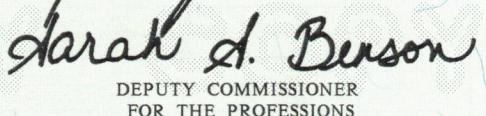
1784 is registered to practice in New York State through 04/30/2027 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

A handwritten signature in black ink.

EXECUTIVE SECRETARY

Betty A. Rosa
COMMISSIONER OF EDUCATION

Sarah D. Benson
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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PROPOSED PROJECT ASSIGNMENT

Project Manager
Sr. Load Rating Engineer

EDUCATION

ME / 1998 / Structural Engineering
BS / 1997 / Civil Engineering
BS / 1997 / Math - Physics

REGISTRATION

2003 / Professional Engineer / NY 081445

YEARS WITH FIRM 14
TOTAL YEARS EXPERIENCE 27

COURSE WORK

2008 / Railroad Bridge Engineering
2004 / Railroad Engineering

CERTIFICATION / TRAINING

2018 / FHWA-NHI-130056 Safety
Inspection of In-Service Bridges
2017 / First Aid, CPR, AED Training
2017 / NYSDOT Bridge Inspectors
Training

2017 / Fundamental of Bridge Rating of
Highway Bridges

2017 / Thermal Spray Coating for
Corrosion Protection

2015 / FHWA-NHI-130087 Inspection and
Maintenance of Ancillary Highway
Structures

1999 / NYSDOT Bridge Inspectors
Seminar

1997 / National Steel Bridge Alliance,
Steel Bridge Course

Professional Profile

Mr. Carlson is a Senior Engineer with a wealth of design and construction experience on bridge and highway related project assignments. His expertise includes bridge structure design for replacement, rehabilitation and retrofit according to AASHTO LFD, AASHTO LRFD and ACI design codes, load rating analyses and fatigue analyses. His designs have included multi-span steel girder bridges, single span concrete box-beams, single span Fiber Reinforced Polymer (FRP), precast concrete culverts and moveable bridge rehabilitation.

In addition, he has served as the WNY branch's primary load rating engineer, guiding a team that provides analyses and recommendations for local owners including towns and counties, NYSDOT, NYPA, NYSCC, and NYSTA.

Project Experience

NYSDOT Local Bridge Inspection Program Region 4 (Prime Consultant); 2022-2025. Load Rating Engineer. GPI is the Prime Consultant, responsible for the inspection and support services for ~650 bridge per year. Mr. Carlson's responsibilities include coordination, management, and QC review of over 650 Level 2 Load Ratings, as well as the update of the Level 1 load ratings of the Lyell Ave. pony truss over the NYS Barge Canal, the Gillett Road bridge over former NYC RR, and several Level 1 analyses of bearing area losses in beam ends and steel pier support members. Client: New York State Department of Transportation

NYPA St. Lawrence Power Project Barnhart Island Bridge Condition Inspection, Massena NY, 2023. Load Rating Engineer. GPI was the Prime consultant responsible for the inspection, maintenance recommendations and load rating services for the Barnhart Island bridge located at the St. Lawrence Power Project in Massena, NY. The bridge is a 3-span, modified, Warren through-truss, with a total bridge length of 1076'. Work included physical bridge inspections (NBIS), repair recommendations and load rating updates (AASHTO LFR). Mr. Carlson was responsible for the development of new level 1 load rating analysis. A Load Factor approach was utilized for analysis of all members. Hand methods were utilized to calculate the dead loads and other required BrR input. The AASHTO BrR program was utilized to calculate the load rating of the trusses, floorbeams, and stringers. A separate hand calculation for the load rating of the concrete deck was also requested by the owner. Client: New York Power Authority

NYSCC Systemwide Bridge Inspection and Load Rating, Various Locations, New York; 2022 – 2024. Load Rating Engineer. GPI is the Prime Consultant responsible for performing structural condition inspection and load rating services on approximately 100 pedestrian and vehicle bridges located throughout the NYS Canal System. Inspection reports are prepared in the Canals Infrastructure Management System (CIMS), in accordance with inspection rating criteria in the NYSCC Inspection Manual (CSIM-95). Load Ratings consist of standard / routine modeling and in-depth, custom modeling for more complex structures as requested / required. Mr. Carlson's responsibilities include planning and estimating the rating tasks as well as QC of the load rating calculations. Client: New York State Canal Corporation

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Condition Inspection, Lewiston NY, 2020-2021, 2024-2025.

Load Rating Engineer. GPI was the Prime consultant responsible for the inspection, maintenance recommendations and load rating services for four bridges located at the RMNPP in Lewiston, NY in 2020 and 2024. Work included physical bridge inspections (NBIS), repair recommendations and load rating updates (AASHTO LRFR). Mr. Carlson was responsible for the development of a new level 1 load rating analysis for these structures after the 2020 inspection. The load rating utilized non-traditional cantilevered span configurations and post tensioning of both the primary girders and transverse diaphragms. In 2024-25, Brian will review the inspection findings to determine if the load rating member properties need to be revised. Client: New York Power Authority

NYPA Robert Moses Niagara Power Project (RMNPP) Bridge Yellow Flag Analysis, Lewiston NY, 2021, 2023. Load Rating Engineer. NYPA requested the analysis of a yellow flag condition (floating bearings) reported during the 2020 and 2022 bridge inspections. GPI modelled the reported condition, calibrated load redistributions to match observed conditions, and performed the load rating analysis to ensure adjacent members were not overstressed. *Client: New York Power Authority*

8 Point Wind (Steuben County, NY) Road User Agreement Compliance; 2022-2023. GPI provided services in accordance with the project Road Users Agreement (RUA) with the road owners. Over 211 structures were assessed for various construction vehicles hauling equipment. GPI performed Pre-Use and Post-use assessments, as required by the RUA. Mr. Carlson's responsibilities included coordination, management, and QC review of the bridge load ratings prepared for the construction equipment, providing recommendations for safe travel and reduction of structure damage due to the intensified activity. Additional load ratings were completed where monitoring teams documented conditions indicating a structure may have reduced capacity. He also assisted in the development of post-use repair plans for a timber superstructure. Client: Next ERA Energy

NYSDOT Local Bridge Inspection Program Region 4; 2020-2021. Load Rating Engineer. GPI was a subconsultant on this bridge inspection term agreement. Mr. Carlson's responsibilities included coordination, management, and QC review of 490 Level 2 Load Ratings and the development and review of a Level 1 load ratings of the Lyell Ave. pony truss over the NYS Barge Canal. Client: New York State Department of Transportation / Ravi Engineering (Prime)

NYSDOT Local Bridge Inspection Program Region 5; 2018-2020, 2012-2013. Load Rating Engineer. Mr. Carlson's responsibilities included coordination, management, and QC review of more than 1,000 Level 2 Load Ratings and the development of multiple Level 1 Load Rating analysis. 2018-2020: Structures analyzed included Level 1 Load Rating of BIN 552015F (I-190 Ramp to Skyway), BIN 552015G (Church Street Ramp to I-190), BIN 2260430 (Ohio Street Lift Bridge), BIN 3324010 (Hewes Road over Wing Creek), and BIN 3362580 (Old Road over French Creek). These load ratings analyzed the steel pier substructures for the respective bridges in accordance with a new NYSDOT initiative. 2012-2013: Structures analyzed included level 1 Load Rating of BIN 100579 (Buffalo Skyway) and 3 non-redundant, girder-floorbeam-stringer type bridges (BIN's 1001240, 1011710 & 1035540). Client: New York State Department of Transportation

NYSDOT Local Bridge Inspection Program Region 6; 2014-2018. Load Rating Engineer. Mr. Carlson's responsibilities included coordination, management, and QC review of over 1800 Level 2 Load Ratings over consecutive two-year term agreements. Structures analyzed included Level 1 Load Rating of BIN 1011350 (Route 415) and 2216880 (Smith Road) through truss bridges; Level 1 Load Rating of BIN 2270880 (Seafuse Road Girder-Floor beam bridge); and Level 1 Load Rating of BIN 2218090 (Bridge Street – 3 span continuous through truss). Client: New York State Department of Transportation

Brentwood Road Bridge over Slate Bottom Creek, BIN 2260300, Flag Repairs for Red Structural Flag, Cheektowaga New York, Designed Temporary and Permanent repairs to address a red structural flag on an adjacent box beam bridge. Phase one consisted of designing a temporary shoring system that could be installed by town forces and result in inactivating the flag. The steel shoring system was designed using material that the town highway department had in their yard. Hand sketches were provided to the town forces to guide the installation of the temporary shoring. Phase 2 included preparation of contract documents, including a cost estimate, for permanent repairs that would affect the removal of the red flag.

Mabey Bridge Inspection and Related Work (PIN 5760.40), Niagara Falls, New York; 2018-2019. Senior Engineer for project involving the rehabilitation of two temporary Mabey Bridges placed on top of BINs 5522000 and 5522010 above the American Rapids in Niagara Falls State Park. Both bridges have been functioning in the same location for approximately thirteen years. Responsible for development of repair recommendations. *Client: New York State Department of Transportation*

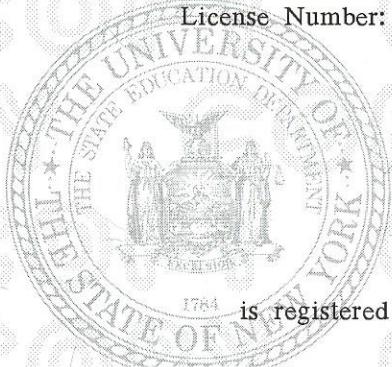
The University of the State of New York
Education Department
Office of the Professions

REGISTRATION CERTIFICATE

Do not accept a copy of this certificate

License Number: 081445-01

Certificate Number: 2780155



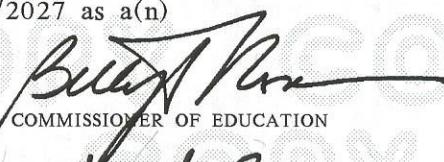
CARLSON BRIAN JOSEPH
116 MILSOM
CHEEKTOWAGA

NY 14227-1218

is registered to practice in New York State through 02/28/2027 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

EXECUTIVE SECRETARY


COMMISSIONER OF EDUCATION

DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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National Highway Institute



Certificate of Training

Brian J. Carlson

has participated in

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

hosted by

Greenman-Pedersen, Inc.

Date: March 26-30, 2018

Hours of Instruction: 34 Hours

Location: Buffalo, NY

Dennis R. Baughman, P.E.
Instructor

C M Cook
Instructor

Willie F. Ruge
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute



Department of
Transportation

New York State
Department of Transportation
Certificate of Training

Brian Carlson

has successfully completed

2022 Bridge Inspection Meeting & Bridge Inspection Refresher Training

hosted by NYSDOT and Cornell Local Roads Program

Location: Web-Based Course

Date: 3/8/22-3/9/22

Hours of Instruction: 7.5 hours



Mark L. Struzinsky, P.E.

Bridge Inspection Unit Head

New York State Dept. of Transportation



James H. Flynn, P.E.

Deputy Chief Engineer (Structures)

New York State Dept. of Transportation

**Cornell University
LOCAL ROADS PROGRAM**

Awards

Brian Carlson

4.0 PROFESSIONAL DEVELOPMENT HOURS
To

Fundamentals of Bridge Ratings of Highway Bridges

at the Training Session for the
2017 Statewide Conference on Local Bridges

Held at Syracuse, New York

October 24, 2017



NYS Department of Education Number 9006



Director, Cornell Local Roads Program

Mr. Davidson is experienced in bridge design, structural engineering, railroad design, and civil engineering. His design experience includes design of steel and concrete superstructures, substructure design, seismic analysis, fatigue evaluation, and inspection and load rating of structures. His experience also includes feasibility studies, design report preparation, contract document preparation, cost estimating, and construction support for various types of projects.

PROJECT EXPERIENCE

NYS Canal Corporation, Systemwide Bridge Inspection and Load Rating

Team Leader responsible for the inspection and load rating of eight (8) bridges along the Erie Canal between Pendleton and Rochester, NY. The bridges types varied from steel beam, steel thru-girder, steel truss and concrete beams. Project work also included issuance of yellow and red flags, maintenance recommendations and quantities, preparation of inspection reports, Level 1 and Level 2 load ratings and utilization of the Canal Corporation's CIMS software. Dates: 2023

NYS Canal Corporation, Canal Structure Inspections

Team Leader responsible for the inspection of twelve (12) culverts along and under the Erie Canal between Medina and Fairport, NY. Several of the culverts were completely submerged and required either a diver or a ROV for access and inspection. Inspections included investigation of structural items including pipe condition, inlet and outlet structure condition; channel and culvert flow, obstructions and watertight integrity. Project work also included issuance of yellow and red flags, maintenance recommendations and quantities, preparation of inspection reports, and utilization of the Canal Corporation's CIMS software. Dates: 2020-21

NY Power Authority, Robert Moses Niagara Power Plant, Bridge Superstructure Replacement Structural Condition Evaluation

Structural Engineer involved in a comprehensive structural evaluation to determine the condition and replacement timeline for the superstructures of the three roadway bridges carried by the Robert Moses Niagara Power Plant. These bridges also serve as the roof of the Plant. The evaluation involved the determination of the remaining life of various structural components, construction methodologies and schedules as well as the development of both rehabilitation and replacement cost estimates.

NY Power Authority, Robert Moses Niagara Power Plant, Niagara River Intake Gates Structural Condition Assessment

Structural Engineer involved in a comprehensive structural evaluation to assess the condition of the two river intake gates, hoist support system, stop logs, stop log hatch covers, transfer car railing, and safety hand railings for the Niagara River intake facility. Each gate is approximately 67 ft tall, 48 ft wide and 6 ft thick. Project work also included the design of a temporary cover for the gate slots when the gates were raised to their highest level. Project work also included designing rigging points for the installation of swing stages to assist in the inspection of the gates.

NYS Office of Parks, Recreation and Historic Preservation, Genesee Greenway Trail Bridges Emergency Inspections & Load Ratings

Inspection and Load Rating Engineer for three bridges located along the Greenway Trail near Belfast, NY. The Greenway Trail experienced a slope failure and Black Creek was encroaching on the trail and jeopardized its stability. NYSOPRHP needed to bring equipment and trucks to the site to repair the slope failure, however there are three bridges located along the trail that would need to be crossed by the heavy equipment. One bridge is a 50 ft long glue laminated timber structure, and the other two bridges are both two span reinforced concrete structures, with 26 ft and 21 ft spans respectively. Performed an inspection of each structure along with a level 1 load rating and gave recommendations on the allowable loading that could traverse each of the bridges.



LICENSES

Professional Engineer:

- Michigan
- New York
- Pennsylvania

EDUCATION

MS, 2000, Structural Engineering,
University at Buffalo, The State
University of New York

BS, 1999, Civil Engineering,
University at Buffalo, The State
University of New York

CERTIFICATES

NHI – 130056 – Safety Inspection
of In-Service Bridges

FAA – Part 107: Remote Pilot
Certificate

AFFILIATIONS

Association of Bridge
Construction and Design,
Western New York Chapter
(President – 2020/21)

TRAINING

OSHA 10 Hour Course

Confined Space Entry

CFR 49 FRA 214 – Roadway
Worker On-Track Safety Program

EXPERIENCE

25 Years

DAVIDSON MICHAEL DONALD

X

LICENSEE INFO

Address	N TONAWANDA NY
Profession	Professional Engineering (016)
License Number	082921
Date of Licensure	June 20, 2005
Status	Registered
Registered through Date	April 30, 2026
Additional Qualifications	<ul style="list-style-type: none">• None



February 20, 2025 10:19 AM (ET)

[https://eservices.nysed.gov/professions/verification-search?
licenseNumber=082921&professionCode=016](https://eservices.nysed.gov/professions/verification-search?licenseNumber=082921&professionCode=016)



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Michael Davidson

has Successfully Completed

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

hosted by

Ohio Department of Transportation

Date: June 6-10, 2022

Hours of Instruction: 34.0

Location: Columbus, Ohio

John Wackerly

Instructor

M. Patrick Kane

Instructor

Victoria Beale

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute