

Nydia Lugo, Technical Development Engineer
Agency of Transportation, Municipal Assistance Bureau
219 North Main Street
Barre, VT 05641

February 9, 2023

RE: At-The-Ready Consulting Engineering Services for Municipalities: Municipal Project Management

Dear Ms. Lugo:

GPI/Greenman-Pedersen, Inc. is pleased to submit our Qualifications to VTrans in the hope of being relisted on the roster of firms prequalified to provide **Municipal Project Management (MPM) Services** to municipalities choosing to procure such services through the VTrans At-the-Ready (ATR) selection process. GPI is a multi-disciplined firm with a proven 57-year record of providing high quality engineering and construction services. We maintain a permanent staff of 1,700+ professionals in over 60 locations and many of our staff persons specialize in the management and development of transportation projects in the public sector.

GPI has been listed on the VTrans ATR qualified roster since 2020. Over that period, we have been selected to provide municipal project management (MPM) services on two local projects via the ATR process, in Lowell and Readsboro, and one other via the traditional RFP/RFQ process, in Bristol. **Mr. Patrick Travers, E.I.T.** has been fulfilling GPI's MPM responsibilities for those three undertakings. Prior to these three assignments, Mr. Travers' history includes providing MPM services, since 2013, for a variety of municipal projects involving public infrastructure improvements. Additionally, he has been qualified to provide ATR MPM services since VTrans implemented the MPM ATR roster in 2017. Patrick has exemplary relationships with many communities across the state and has earned their trust as a competent, reliable, and professional MPM.

In addition to Mr. Travers, GPI is pleased to offer the services of **Mr. Mark Woolaver** as an MPM. Mr. Woolaver has been with GPI for four years and was a project manager for the Pavement Management Section of VTrans for more than 10 years. During that tenure, he was responsible for delivering hundreds of pavement preservation and safety projects and is intimately familiar with the VTrans project delivery process.

We are also proud to offer **Mr. Jason Rowell, P.E.** as MPM. Mr. Rowell has demonstrated his proficiency with any task assigned. Under the guidance of Mr. Travers and Mr. Woolaver, Jason will be able to apply his years of experience in managing construction contracts and knowledge of the process to help guide communities to a successful project.

This qualification submittal includes general firm information, an organizational and availability chart, qualifications and experience of the firm/team, examples of relevant projects and key personnel and their resumes. We have also demonstrated our experience working with municipalities and our clear understanding of the scope of work for locally managed projects. We are confident the GPI team offers the most qualified MPM's and look forward to continuing to provide these services to municipalities through the ATR process.

We are grateful for the opportunity to submit this Statement of Qualifications, and we hope it clearly reflects our firm's ability and enthusiasm to perform Municipal Project Manager Services through the VTrans MAS At-the-Ready (ATR) selection process.

With Gratitude,

GPI/GREENMAN-PEDERSEN, INC.

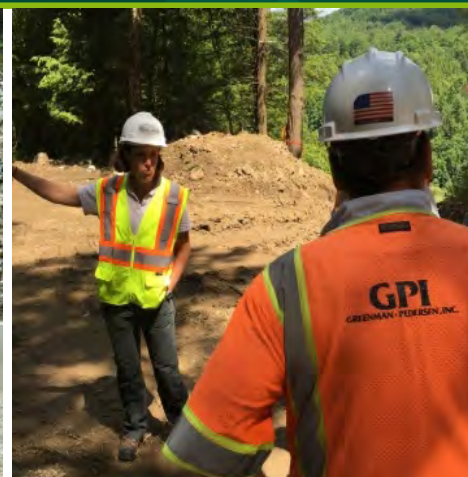


John P. Simkulet, P.E.
Executive Vice President | Branch Manager
80 Wolf Road, Suite 300, Albany, NY 12205
518.898.9544 | jsimkulet@gpinet.com



Request for Qualifications

Two-Tier (State-Local) Qualifications-Based Selection for At-The-Ready (ATR) Consultant Engineering Services for Municipalities | MUNICIPAL PROJECT MANAGEMENT



Submitted by:

GPI/Greenman-Pedersen, Inc.

80 Wolf Road, Suite 300, Albany NY 12205



February 9, 2023, 2:00 PM

RFQ> Two-Tier (State-Local) Qualifications-Based Selection for At-The-Ready (ATR) Consultant Engineering Services for Municipalities | MUNICIPAL PROJECT MANAGEMENT

Request for Qualifications

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SECTION 1

General Information

General Information

Introduction to Consultant Firm

GPI/Greenman-Pedersen, Inc. is pleased to submit our Statement of Qualifications to the Vermont Agency of Transportation (VTrans) for the privilege of remaining on the At-the-Ready (ATR) roster for providing Municipal Project Management (MPM) Services to municipalities developing local transportation facilities through the VTrans Municipal Assistance Section (MAS). Founded in 1966, GPI is a leading multi-discipline engineering consulting firm, with a permanent staff of 1,700+ professionals in over 60 locations specializing in innovative design, management and construction of transportation infrastructure and building projects. GPI has been working closely with VTrans since 1996 and is very familiar with the process and requirements for projects developed by a municipality or by VTrans.



Since 2020, GPI has been providing MPM services to Vermont municipalities through the VTrans MAS ATR selection process, and **Mr. Patrick Travers, E.I.T.**, who thus far has been handling these assignments for GPI, has earned a reputation as a practical and effective MPM who brings his exemplary capabilities to every project. Mr. Travers knows how to develop and deliver municipally managed projects and has demonstrated the ability to meet schedules, stay on budget and follow the rules. Additionally, before coming to GPI three years ago, Mr. Travers provided MPM services, over a seven-year period, to several municipalities developing transportation projects through VTrans MAS. During the past five years, he has successfully managed municipal efforts involving sidewalks, recreation paths, stormwater collection systems, a bridge replacement, and a slope stabilization.

In addition to Mr. Travers, GPI is offering **Mr. Mark Woolaver** as another MPM available to provide ATR services to Vermont municipalities. Mr. Woolaver's background includes 10 years of project management experience, delivering projects for VTrans in accordance with State and Federal requirements. Mark led a team of state employees and consultants tasked with delivering the Class 1 Town Highway, State and Interstate pavement preservation and rehabilitation program, valued at \$100M per year. Mark has an intimate knowledge of the project delivery process, is well versed in the regulatory requirements for projects, has worked with municipalities throughout the state for the Class 1 Town Highway projects and is acutely familiar with the public involvement and outreach process. Mark is a well-respected engineer and trusted throughout the industry.

Together, Messrs. Travers and Woolaver have the demonstrated experience in performing project management throughout Vermont, and they have developed solid client relationships based on trust and performance throughout the state. Additionally, they can provide the guidance that will keep projects moving forward, thereby avoiding the pitfalls and traps, and ensuring proper processes are followed to not jeopardize the grant money or project funding. Pat and Mark have the experience and temperament to guide Vermont municipalities through any project type that is partially or fully funded by the Federal and State governments and will make outstanding MPM's.

GPI's Principal-In-Charge:

John Simkulet, P.E.

Executive Vice President / Branch Manager
80 Wolf Road, Suite 300, Albany, NY 12205
p- 518.898.9544 | e- jsimkulet@gpinet.com

GPI's Contract Manager in Charge:

David Hoyne, P.E.

Vice President/Director of Construction Services-VT
1445 Center Fayston Rd, N Fayston, VT 05660
p- 802.917.4310 | e- dhoyne@gpinet.com

GPI understands that VTrans would like to select up to six (6) consultants to perform MPM services as stated in the RFQ, which the municipalities can utilize to hire a consultant for their projects. The intent is to develop a pre-qualified roster of consultants to simplify and accelerate the contracting process for municipalities, and to ensure the selected firms have the necessary skills and resources to perform the work. Once VTrans has established the qualified roster, the municipalities form a selection committee and choose the most qualified firm for their project. The community can then proceed to negotiate a scope and fee with the selected firm, and if the negotiations are successful, a contract may be executed. As GPI has been providing MPM services, over the past three years, to municipalities procuring such services via the VTrans ATR process, we are very familiar with how that process works.

Organizational Chart

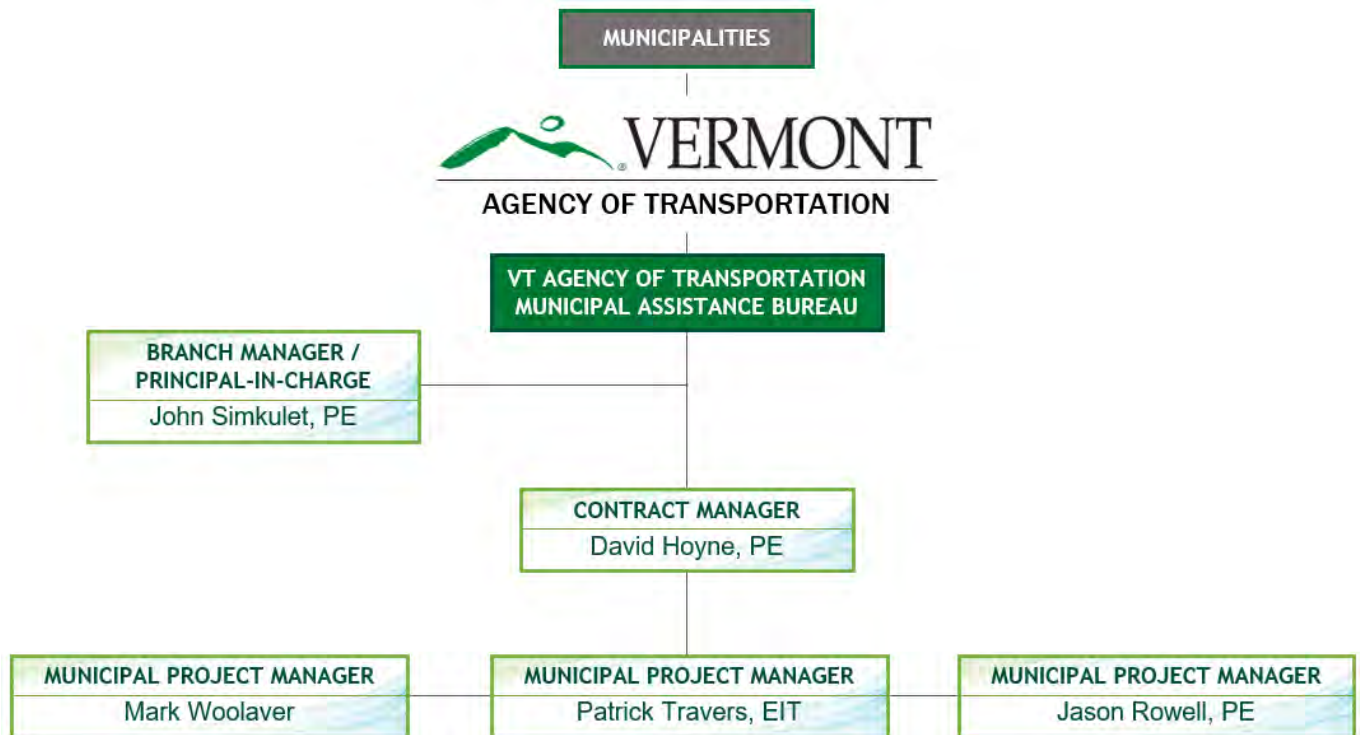
The following organizational chart offers a graphical representation of the team structure for any municipal MPM contracts that we procure through the At-the-Ready (ATR) process. The Executive Vice President overseeing GPI operations is Mr. John Simkulet, P.E. John will provide executive level oversight of the team, with direction to the Contract Manager to ensure the goals of the program are achieved and the work meets or exceeds our clients' expectations.



Mr. David Hoyne, P.E., will be the Contract Manager and point of contact for VTrans and the municipalities. David will be directly responsible for working with the municipalities to develop responses to RFP's and negotiating cost proposals for the work. Additionally, he will review work performed by the MPM to ensure that it meets quality expectations and will provide feedback to the MPM regarding cost and schedule.

The primary MPM's will be Mr. Travers and Mr. Woolaver, whose capabilities are described in Section 2 of this Statement of Qualifications. We are also including Mr. Jason Rowell, P.E., in the roster for MPM's with the intent to expand the roster of available MPM's. Mr. Rowell is an accomplished engineer with a proven track record of developing construction specifications, serving as an inspector, chief inspector, and office engineer for a variety of construction projects, and as a quality assurance engineer for design-build projects. Jason has the knowledge and skills to be an excellent MPM if given the opportunity. There may be an opportunity on select projects for Jason to apprentice under the guidance of Pat and Mark and prove he can perform as an MPM.

The resumes for the entire team are provided in the Resumes tab.



Availability Chart

Name	Proposed Role	Availability
Jason Rowell, PE	MPM	50% Available for projects
Mark Woolaver	MPM	50% Available for projects
Patrick Travers, EIT	MPM	100% Available for projects

SECTION 2

Municipal Project Management Services

Municipal Project Management Services

Qualification & Experience of Firm

For decades, GPI has been performing project management services for clients in the building and public infrastructure sectors, for private clients, state transportation agencies (DOT's) and municipalities. GPI is accustomed to providing comprehensive project management services to public and private sector clients undertaking development or capital improvement projects. Our project managers are trained to be well versed with the client's project development process, to understand critical path schedules and scheduling software, to manage the design and technical support services and offer outstanding communication and documentation services.



Managing a complex project requires a detailed working knowledge of the project goals and constraints, which leads to the development of a realistic project schedule and estimate of costs. These must anticipate the regulatory, right-of-way and utility relocation processes and associated schedule implications. The project manager is the conductor and must have the knowledge, skills, and experience to guide the team in a measured and predictable manner. The project manager must be prepared to augment the team with the necessary resources and hold team members accountable for quality, schedule, and cost.

At GPI our project managers have the tools and process controls in place to guide them and be successful in meeting our client's needs and expectations.

Over the past three years, our presence in the Vermont market for providing project management has been greatly enhanced by **Mr. Patrick Travers, E.I.T.**, who came to GPI in 2020. Prior to joining GPI, he had performed MPM services on several municipal projects in Vermont. And with **Mr. Mark Woolaver** available for MPM assignments, these two individuals combined have more than 25 years of experience managing the development of transportation projects in Vermont.

Mr. Travers has been successfully delivering projects as an MPM on municipal transportation efforts since 2008. This involves providing such services consistent with the tasks and responsibilities outlined in the *MAS Local Projects Guidebook for Locally Managed Projects*.

During the past five years, Pat has served as MPM for the following municipal infrastructure projects coordinated through VTrans MAS:

- *Town of Bristol, Basin Street Improvements, Bristol TAP TA 22(1)*
- *Town of Readsboro, Bosley Hill Road Scoping Study, Readsboro STP MM 22(2)*
- *Town of Lowell, Bridge #10 Replacement, Lowell ER P20-1 (908)*
- *Town of Castleton, Route 4A West Sidewalk Replacement, Castleton STP BP 13(10)*
- *Town of Castleton, Route 30 Sidewalk Replacement, Castleton EH 10(4)*
- *Town of Plainfield, Main Street Pedestrian Bridge Replacement, Plainfield STP BP 14(3)*
- *Town of Moretown, Village Sidewalk & Drainage Improvements, Moretown STP BP 13(8)*

In addition to those projects coordinated through VTrans MAS, Mr. Travers has provided MPM services directly to other municipalities that developed infrastructure projects outside the MAS process. Pat was also under contract, from 2009 through 2019, by the Vermont State Parks, to perform total project management services for its parks in the northwest quadrant of Vermont. During that time, Pat managed 15 projects for the State Parks to include park planning and development, infrastructure construction, building renovations, historic restoration, and other capital improvements.

Mr. Woolaver joined our team in 2019 after a long and distinguished career with VTrans. Mark was the only project manager for the Pavement Management Section of VTrans from 1997 through 2007 and oversaw the design and development of construction contracts for one of the largest programs at VTrans. Mark led a team of state employees and consultants tasked with delivering the Class 1 Town Highway, State and Interstate pavement preservation and rehabilitation program, valued at \$100M per year. The program was delivered in accordance with the VTrans project development process, State requirements and Federal requirements. Mark delivered literally hundreds of projects during his tenure and can probably boast of having delivered more projects than any other project manager in VTrans history. Mark clearly has an intimate knowledge of the project delivery process and will be able to quickly consume and adapt the MAS requirements outlined in the *Local Projects Guidebook*.

Mr. Woolaver worked with municipalities throughout the state for the delivery of the Class 1 Town Highway projects. He is acutely familiar with the needs of the communities, including access control requirements, maintenance agreements for sidewalks in the State right-of-way, parking spaces, signs, and safety features. Mark was directly involved with the public

involvement process during the development stages for the most challenging projects and has the right personality for the job. Mark has a unique ability to engage with communities and is quickly accepted as a trusted and respected engineer.

Pat and Mark have considerable experience with federally funded projects and a working knowledge of the VTrans process and specifications. Together they offer extensive backgrounds in developing appropriate design solutions, performing constructability reviews, controlling project scope and costs, and ensuring the projects achieve the design elements that make them biddable, buildable, and compliant with design guidelines. The projects must conform to all the procedures and regulations required by FHWA and VTrans, including the process workflows and documentation requirements.

For the past 14 years, Pat has worked with 31 Vermont municipalities, the Vermont Association of Snow Travelers and a state agency on transportation projects funded through VTrans MAS; both as a Construction Inspection Consultant and as a Municipal Project Manager. This experience has bolstered him with a thorough working knowledge of the VTrans MAS Project Development Process, the duties, and responsibilities of the MPM, the various permit processes, the administrative and transparency requirements, and the State and Federal funding guidelines surrounding public infrastructure construction.

For the entirety of Mark's 30-year career at VTrans, he worked within the framework of federally funded projects, using the VTrans project development process and VTrans Standard Specifications, procedure manuals and design guidelines.

Specific competencies offered by the GPI team include:

- Familiarity with State of Vermont procurement and contracting process
- Knowledge of VTrans Specifications, MAS procedures and requirements
- Familiarity with state and local permitting processes
- Knowledge of federal government procurement guidelines
- Knowledge of federal funding regulations (CFR)

Our team has also worked under contracts governed by the following reference materials, guidebooks, and manuals, and we have a working knowledge of the requirements contained within:

- VTrans *Municipal Assistance Section Local Projects Guidebook for Locally Managed Projects, 2014, revised May 2019*
- VTrans Specifications for Contractor Services, June 2014
- VTrans Pedestrian and Bicycle Facility Planning and Design Manual, 2002
- Vermont Standard Specifications for Construction 2011 & 2018
- VTrans General Special Provisions for 2011 & 2018
- Specifications VTrans Construction Manual
- VTrans Route Survey Manual
- VTrans Quality Assurance Program
- VTrans Materials Sampling Manual
- VTrans Approved Products List
- VTrans List of Materials with Advance Certification
- Project Special Provisions
- Manual on Uniform Traffic Control Devices

The duties and responsibilities for the MPM outlined in the *Local Projects Guidebook* are clearly articulated and very familiar to Pat and Mark. Whether it is invoicing or billing, preparing, and executing contracts, conducting kick-off or local concerns meetings, shepherding the PS&E development, or addressing contaminated soils or utility relocations, the communities will have the confidence that GPI MPM's have the experience to deliver the project. More importantly, our MPM's take responsibility for successful delivery of the project.

Project Examples

The following is a sample of transportation projects and other public infrastructure undertakings for which Mr. Pat Travers served as MPM, over the past five years, including contact information for key stakeholders:

Town of Bristol, VT

Basin Street Improvements | Bristol TAP TA 22(1)

In December 2022, Pat Travers started fulfilling responsibilities as the Municipal Project Manager for this effort that will ultimately stabilize a failing slope along East Main Street and reconfigure the dangerous intersection where Basin Street meets East Main Street. Currently, an RFQ for procuring design engineering services is being developed. The project is being coordinated through the VTrans Municipal Assistance Section.



Contacts: Valerie Capels, Town Administrator
802.453.2410 x1 | townadmin@bristolvt.org

Peter Pochop, VTrans-MAS Project Supervisor
802.477.3123 | peter.pochop@vermont.gov

Town of Readsboro, VT

Bosley Hill Road Scoping Study | Readsboro STP MM 22(2)

During autumn 2022, Pat Travers began providing Municipal Project Manager services for this undertaking that will result in a Scoping Study to determine the most appropriate design option for stabilizing a failed slope along Bosley Hill Road, above the Deerfield River. Currently, the services of a design consultant are being sought. It is expected that the Scoping Study will be completed in approximately one year's time. The project is being coordinated through the VTrans Municipal Assistance Section.



Contacts: Karen Boisvert, Admin. Assistant
802.423.5652 | admin@readsborovt.org

Nydia Lugo, VTrans-MAS Project Supervisor
802.595.3347 | nydia.lugo@vermont.gov

Town of Lowell, VT

Bridge #10 Replacement | Lowell ER P-20-1(908); ER 0136

Since 2021, Pat Travers has been acting as Municipal Project Manager for this project that will replace the bridge on the Hazen Notch Road, where it crosses over the Burgess Branch of the Missisquoi River. The original bridge was destroyed by major flooding in October 2020 and a temporary bridge was placed at the project location. Currently, Preliminary Plans are being developed. Construction is expected to take place in 2024. The project is being coordinated through the VTrans Municipal Assistance Section.



Contacts: Darren Pion, Select Board Chair
802.744.6559 | dpiontransport@gmail.com

Chris Hunt, VTrans-MAS Project Supervisor
802.595.4566 | chris.hunt@vermont.gov

Town of Castleton, VT

Route 30 Sidewalk Replacement | Castleton STP EH 10(4)

Pat Travers served as Municipal Project Manager for this undertaking that created 4,000-ft of new sidewalk along Route 30, from the Castleton Corner intersection to the Castleton Family Health Center. The project was constructed in 2020. The project was coordinated through the VTrans Municipal Assistance Section.



Contacts: Mike Jones, Town Manager
802.468.8939 x203 | manager@castletonvt.org

Peter Pochop, VTrans-MAS Project Supervisor
802.477.3123 | peter.pochop@vermont.gov

Town of Castleton, VT

Route 4A West Sidewalk Replacement | Castleton STP BP 13(10)

Pat Travers provided Municipal Project Management services for this effort that resulted in the construction of 3,800-ft of sidewalk along Route 4A, between the villages of Castleton Corner and Hydeville. Construction was completed in July 2019. The project was coordinated through the VTrans Municipal Assistance Section.



Contacts: Mike Jones, Town Manager
802.468.8939 x203 | manager@castletonvt.org

Peter Pochop, VTrans-MAS Project Supervisor
802.477.3123 | peter.pochop@vermont.gov

Town of Plainfield, VT

Main Street Pedestrian Bridge Replacement | Plainfield STP BP14 (3)

Pat Travers fulfilled Municipal Project Manager services for this undertaking that ultimately culminated in the construction of a new pedestrian walkway from the Mill Street parking lot to the opposite side of the Winooski River. The project included widening the existing historic Main Street Bridge over the river to accommodate the new sidewalk. Mr. Travers managed the project through the first round of construction bids in 2020. Construction eventually took place in 2022. The project was coordinated through the VTrans Municipal Assistance Section.



Contacts: David Strong, Citizens Advisory Committee
802.454.1418 | dstrong@vtlink.net

Ross Gouin VTrans-MAS Project Supervisor
802.595.2381 | ross.gouin@vermont.gov

Town of Moretown, VT

Village Sidewalk Improvements | Moretown STP BP 13(8)

Pat Travers fulfilled Municipal Project Manager responsibilities for this project that involved replacing 1,700-ft of existing sidewalk, adding granite curbing and improving the stormwater collection system along the east side of Route 100B through the entirety of Moretown Village. Construction of this project took place in 2020. The project was coordinated via the VTrans Municipal Assistance Section.



Contacts: Cherilyn Brown, Town Clerk
802.882.8218 | townclerk@moretownvt.net

Chris Hunt, VTrans-MAS Project Supervisor
802.595.4556 | chris.hunt@vermont.gov

VT Dept. of Forests, Parks & Recreation

Park Development Plan | Alburgh Dunes State Park

For seven years, Pat Travers served as Owner's Project Manager for Vermont State Parks on this effort that brought limited development to this designated rustic park. Mr. Travers oversaw all design, permitting and construction activities of this undertaking. This \$1.5M project, which was completed in 2019, resulted in the development of better parking areas, pedestrian enhancements, nature trails, interpretive signage, toilet facilities and other infrastructure improvements at one of the State's most popular parks.



Contacts: Frank Spaulding, Parks Projects Coordinator
802.522.0798 | frank.spaulding@vermont.gov

Rob Peterson, Northwest Parks Supervisor
802.279.8329 | robert.peterson@vermont.gov

Key Personnel

The Contract Manager for this project will be **Mr. David Hoyne, P.E.**, Vice President/Director of Construction Services-VT, and the former State Construction Engineer for VTrans. Mr. Hoyne retired from VTrans in 2017 after a 28-year career with the Agency. Mr. Hoyne also served as the Vice Chair of the AASHTO Committee on Construction from 2010 until his retirement, assuming a leadership role with the national committee charged with advancing the state of practice for the highway construction program.



For the last 11 years of his career as the State Construction Engineer, David was responsible for delivering the capital construction program for VTrans in conformance with all State and Federal requirements. The program was approximately \$200 million annually and consisted of a mix of design-bid-build, design-build and CMGC projects for all modes of transportation. David was directly responsible for the development of the procedures contained in the VTrans Construction and Regional Procedures Manuals and has mastered the requirements for compliance. In addition, he is considered an expert in the VTrans Standard Specification for Construction, the Code of Federal Regulations (CFR), partnering, claims avoidance, claims analysis and resolution, and root cause analysis. Mr. Hoyne will guide, coach, and advise the team throughout the life of this assignment, bringing tremendous value to the work.

Mr. Patrick Travers, E.I.T., GPI Project Manager and Construction Inspection Supervisor, is one of our designated Municipal Project Managers for MPM contracts procured through the ATR process. He possesses a degree in civil engineering and holds an Engineer-in-Training license. Mr. Travers has over 40 years of professional experience in engineering, construction management and business management, and for the past 30 years, most of his focus has been in managing construction projects in the commercial and public infrastructure sectors. Mr. Travers' career has included working for municipal agencies, earth moving contractors, general contractors in commercial construction, design-build firms, a multi-national engineering corporation, a state agency, the former Staff Sterling Management, and GPI. He has also owned businesses in the construction, education, and agriculture arenas.

Mr. Travers commands a strong expertise in public infrastructure projects and has fulfilled responsibilities as a construction inspector, resident engineer, and project manager on many public sector efforts throughout Vermont, New York, and Connecticut, including those coordinated through VTrans MAS. In addition to his experience as a Municipal Project Manager, he has managed 36 Construction Inspection Services contracts on local transportation projects developed through MAS.

Mr. Travers' personal strengths include strong verbal and written communication skills; diplomatic public relations capabilities; excellent public speaking and public presentation skills; and being able to effectively coordinate efforts among all those involved in a project, such as owners, design firms, contractors, and the general public. He is also adept at managing multiple construction projects at the same time.

Mr. Mark Woolaver is our other designated Municipal Project Manager available for assignments to MPM contracts procured via the ATR process. Mark had a successful 30-year career as an engineer for VTrans, starting as a highway design engineer, then working as a construction inspector before being promoted to project supervisor. Mark was promoted again to become a project manager, where he served in that role for 10 years. Mark completed his career as the Paving Engineer for VTrans, providing technical guidance to designers, contractors, project managers and construction engineers on proper specifications, manufacturing, and laydown of bituminous concrete pavements. Mark is recognized nationally for his knowledge of best practices and has been an invited speaker for state and national audiences. Mark's experience as a VTrans project manager makes him uniquely qualified for the role as an MPM.

Name	Proposed Role	Years of Experience	Firm	Professional Engineer	ACI Concrete Field Testing Tech Grade I	ATSSA Traffic Control Supervisor	ATSSA Traffic Control Tech	NETTCP HMA Paving Inspector	NETTCP Concrete Inspector	NETTCP Drilled Shaft	NETTCP Driven Pile Inspector	Nuclear Density Gauge/RSO Cert	OSHA 10-Hour	First Aid/CPR/AED	Other
Jason Rowell, PE	MPM	18	GPI	VT	●	●	●	●	●	●	●	●	●	●	Permit Required Confined Spaces: Entrant-Attendant & Rescue for Supervisors
Mark Woolaver	MPM	30	GPI		●		●					●	●		
Patrick Travers, EIT	MPM	45	GPI										●		

SECTION 3

Resumes

David J. Hoyne, P.E.

Vice President | Director of Construction Services, VT

**PROPOSED PROJECT
ASSIGNMENT: Contract Manager****EDUCATION:***BS/1989/Civil Engineering***REGISTRATIONS/CERTIFICATIONS:***1994/Professional Engineer/VT**National Highway Institute Certified Instructor***YEARS WITH FIRM: 5****TOTAL YEARS EXPERIENCE: 30+****COURSE WORK:***FHWA- "Bridge Maintenance Training", 2000**FHWA- "Construction Program Management Workshop", 2005**FHWA-NHI-Course No. 13049 "Economical and Fatigue Resistant Steel Bridge Details, 1990**FHWA-NHI- Course No. 01-004 "Highways in the River Environment", 1993**FHWA-NHI- Course No. 132014, "Drilled Shafts", 2002**FHWA-NHI-Course "Alternative Contracting", 2005**FHWA-NHI-Course No. 134064, "Transportation Construction Quality Assurance", 2006**FHWA-NHI-Course No. 136065, "Risk Management", 2008**FHWA-NHI-Course 420018 "Instructor Development Course", 2017**Vermont Criminal Justice Training Council, ICS 100, 2012, ICS 200, 2013**AGC Fall Protection Training, 2005**OSHA 1926.21 Construction Hazard Awareness Training,**OSHA 1926.503 Fall Protection Certification and Inspection, 2012**ASCE Leadership Development for the Engineer, 2008**ASCE Project Management, 2009**NASBA Fraud Awareness for Managers, 2008**PCI, Prestressed Concrete Bridge Design**Course, 1996**AASHTO, Management Development Training, 1997***Professional Profile**

Mr. Hoyne is an expert with demonstrated leadership for all phases of program delivery in the field of transportation engineering. He is driven to inspire transportation professionals to seek excellence in their work, promote a culture of quality and the fundamental principles and canons of the engineering profession. Mr. Hoyne is a leader with a clear focus on safety.

Mr. Hoyne has built a successful career through the development of lasting and effective relationships with all stakeholders, maximizing employee potential by aligning employee strengths with opportunities, and leading organizational excellence through process improvement, performance management and documentation. Mr. Hoyne is an expert at constructability reviews, contract specifications, root cause analysis and developing solutions to move complicated challenges forward. Mr. Hoyne has extensive experience analyzing contractors' claims, delays and disputes, and has served as an expert witness and lead negotiator for many complex claims and mediation.

Firm Experience

GPI. 09/17+. As Senior Construction Engineer, Mr. Hoyne will provide expertise with constructability reviews, claims analysis, client relationships for locally managed construction services contracts, a subject matter expert in construction engineering, asset management, process improvement, bridge management and inspection and will provide training and onboarding expertise for construction inspection staff.

FHWA Bridge Preservation Expert Task Group. Mr. Hoyne is supporting the BPETG as the principal author for the communication plan, facilitating the development performance metrics for the ETG and performing edits to the Bridge Washing, the Removal and Replacement of Bridge Coatings and Deck Patching guides.

West Virginia Department of Transportation. Mr. Hoyne is the principal investor leading the team with the renewal of the WVDOT-DOH Contract Award Manual. This project is capturing the current state workflows for the prequalification, PS&E, procurement, and award processes including documentation of state and federal requirements, changes to the construction manual and standard specifications.

Municipally Managed Projects. Mr. Hoyne is serving as the regional manager for resident engineer and construction inspection services for locally managed projects. Projects include the Market Street reconstruction project in South Burlington and the South Street sidewalk project in Springfield, VT.

National Highway Institute. Mr. Hoyne is a certified instructor teaching three courses for NHI including 130053 Bridge Inspection Refresher, 134067 Inspection of Bridge Rehabilitation Projects and 130091B Underwater Bridge Repair and Countermeasures. In addition, Mr. Hoyne is the subject matter expert for a new 6-hour web-based training for construction inspectors and is responsible for developing the technical content for the lessons.

Albany Port District Commission. Mr. Hoyne is providing expert guidance to the APDC as they navigate a notice of claim for a construction delay alleged by the contractor. *Client: Albany Port District Commission*

Prior Firm Experience

AASHTO Subcommittee on Construction, Vice Chair, 2010-2017. Responsibilities included the development of the annual work plan, managing the committee functions in preparation and support of the annual meeting and providing support for the Chair and AASHTO committee liaison with committee matters.

Vermont Agency of Transportation (VTrans), Montpelier, VT. 2014-2017. Director, Construction & Materials Bureau. This position manages the Construction, Materials and Geotechnical Engineering Sections of VTrans. The Director has full responsibility for the leadership and management oversight of the Bureau, including budgetary, planning, policy, quality and performance. The Bureau consists of a staff of 118 engineers and technicians and manages an annual budget of \$200M; it augments the workforce with consultant personal services contracts for construction inspection, plant inspectors and geotechnical engineering services.

Secured \$3M in funding for the Construction Management System replacement project, a project that spans estimating, proposal preparation, procurement, contract management, Civil Rights and material management, which will replace the current client server versions with vendor hosted web-based applications.

Commissioned the new Materials Testing Laboratory with full AASHTO accreditation, deployed the Hamburg Wheel testing equipment, developed the recommendation to use polymer modified asphalt exclusively to counter premature wheel path erosion, and deployed a dashboard and reconciliation process to bring predictability and accountability to the material acceptance program.

Negotiated the global settlement for the \$60M Brattleboro Bridge to Nature DB Contract, resolving multiple complex claims, differing site conditions, extreme weather events, liquidated damages and the revised no excuse completion date.

Represented VTrans as the SME in a false claim investigation and provided expert testimony as VTrans 30(b)(6) witness for a complex differing site conditions claim.

Oversaw development of a procedure's manual for Construction SME's.

Vermont Agency of Transportation (VTrans), Montpelier, VT. 2006-2017. State Construction Engineer. This position manages the Construction Section, which provides contract management services for the VTrans capital improvement program of highway, bridge and rail construction contracts. The Section consists of a staff of 75 engineers and technicians and manages an annual budget of \$180M. Projects must be delivered in accordance with the contract provisions, the Code of Federal Regulation, State and Federal laws.

Managed over 750 highway, bridge and rail construction contracts valued at \$1.75 billion.

Managed over 250 contractors claims to include complex contract terminations, global settlements, compensable delays and false claims.

Oversaw the renewal of the Construction Manual, and the creation of the Regional Process Manual.

Delivered the American Reinvestment and Recovery Act (ARRA) projects in accordance with Federal Audit requirements from 2009 through 2011.

Provided staff and expert support to the Tropical Storm Irene Recovery effort in 2011.

Served as Special Liaison between Unified Command and the Incident Commanders during Tropical Storm Irene Recovery.

Served as Logistics Officer for the Statewide Irene Recovery Officer and its assignment to produce the Irene Recovery Report for the Governor in 2012.

Served as Project Sponsor for VTrans' first Business Process Management Solution (BPMS). This pilot project demonstrated the potential of BPM and provided a fully automated process solution to the Finals Process (final contract reconciliation) using a cloud-based application.

Serves as VTrans expert witness in court proceeding for construction claims, have extensive experience with depositions, testified before administrative review boards, managed complex HR issues involving termination cases and served as the business point of contact for police investigations of theft and fraud.

Vermont Agency of Transportation (VTrans), Montpelier, VT. 2004-2005. Southwest Regional Construction Engineer. This is a full management position within the Construction Section responsible for the oversight of the Southwest Region.

Supervision of the engineering, inspection, documentation, and administration of the contracts assigned to the Southwest Region.

Oversaw construction of the Western Segment of the Bennington Bypass.

Acted as the Construction SME for the rewrite of the Standard Specification for Highway Construction book.

Vermont Agency of Transportation (VTrans), Montpelier, VT. 2000-2003. Bridge Management Engineer. This is a full management position responsible for the oversight of the Bridge Management System, the Bridge Inspection Program, and the Steel Fabrication Inspection Program.

Manage and guide the application of the Bridge Management System (PONTIS) to Vermont's network of bridges, including the Interstate, State and Town Highway Bridge Programs.

Provide full oversight of the Bridge Inspection Program (NBIS) in accordance with Federal standards for inspections and reporting of data.

Provide full oversight of the Overload permit review process for weight and height restrictions on Vermont's bridges.

Provide full oversight of the Steel Fabrication Inspection program, including all structural steel, bearing, bridge railing and welding procedures for Agency projects.

Provide full oversight for municipal and private utility projects when bridges are involved.

Provide technical assistance to municipalities and Operations forces looking to preserve or rehabilitate structures.

Serves as Project Manager for emergency repair projects.

Prepares reports and makes presentations to Executive Staff, Legislative Committees and other public groups regarding the status of the Bridge Program, new initiatives and bridge condition forecasts.

Vermont Agency of Transportation, Montpelier, VT. 1996-1999. Pavement Management Program Engineer. This is a Project Manager level position responsible for the development of the annual Class 1 Town Highway, State System and Interstate paving programs.

Manage and guide the application of the Pavement Management System (dTIMS) to Vermont's network of highways.

Develop a Preventive Maintenance program that includes securing Federal participation, project selection, and material & specification requirements.

Manage the Paving Programs needs for the STIP and TIP process and program new projects.

Administrate the Paving budget by determining program categories to meet Program goals, monitor expenditure profiles, obligational authority, and prepare necessary reports and documentation.

Supervise Pavement Condition Survey team and the Database Administrator positions.

Develop the final project specific recommendation; scope of work and cost.

Oversee project testing using the Falling Weight Deflectometer, Mays Meter and coring equipment.

Manage the Level and Seal program including budgeting, project selection, recording production rates and costs for use with the Pavement Management System.

Develop the Pavement Management Annual Report; assist with policy development and review, including the Strategic Overview for the program.

Vermont Agency of Transportation, Montpelier, VT. 1989-1996. Bridge Designer. A full production engineer responsible for managing multiple projects from inception through to construction.

All phases of design and preparation of contract plans for complicated bridge projects.

Conduct Public Informational Meetings for bridge projects.

Conduct preliminary site visits to establish scope of work, potential alignments and environmental constraints.

Designed the first two span prestressed voided slab continuous for live load at VTrans.

Designed the first two span continuous haunched composite plate girder using LFD at VTrans.

Designed and load rated several historic steel truss bridges for use on highways and shared use paths.

Designed and load rated covered bridges for continued highway use.

Deployed seismic bearings to distribute loadings to existing foundations from new continuous superstructure.

Served as Chair of the Structures Design Manual and oversaw a complete rewrite of the document.

Publications

- New England Transportation Consortium (NETC) Committee member on Thin Pavement Sections using Geogrids and Drainage GeoComposites
- National Cooperative Highway Research Program (NCHRP) Topic 47-09 panel member for Practices for Establishing Contract Completion Dates for Highway Projects.
- NCHRP Task 386 panel member for the Update of the AASHTO 2008 Guide Specifications for Highway Construction.
- NCRHP 20-68A- US Domestic Scan Program scan team member for Scan 15-01 Developing and Maintaining Construction Inspection Competence.
- NCHRP 10-99 D02 panel member for the Guidebook for Implementing Constructability across the Entire Project Development Process: NEPA to Final Design.

Volunteer

- Member of the Engineering Advisory Committee for Vermont Technical College. 2013-Present
- Norwich University; member of the Engineering Advisory Board, Board of Fellows. 2000-2008
- Capital Soccer Club; member of the Board of Directors. 2008-2014
- Town of Fayston; past member of the Town Planning Commission. 2000-2004
- Town of Fayston; past town representative to the Central Vermont Regional Planning Commission. 1995-1999
- Fayston Elementary School; past Co-Chair of Winter Sports Committee. 2006-2010

Patrick Travers, E.I.T.
 Construction Inspection Supervisor

PROPOSED PROJECT ASSIGNMENT: Municipal Project Manager

EDUCATION:
BS/1976/Civil Engineering

REGISTRATIONS/CERTIFICATIONS:
1976/Engineer-in-Training/CT
OSHA 10-Hour Construction Safety and Health

YEARS WITH FIRM: 3
TOTAL YEARS EXPERIENCE: 45+

Professional Profile

Mr. Travers is a seasoned construction industry professional with 45+ years of experience as a project manager, project engineer, estimator, and construction inspector. He also owned his own construction consulting business in the past.

Mr. Travers has an extensive background in public infrastructure projects, where he has developed a solid reputation for managing construction inspection contracts and serving as a municipal project manager. For the past fourteen years, Mr. Travers has been involved, in a management capacity, on about 50 municipal infrastructure projects throughout the State of Vermont. Additionally, Mr. Travers has managed 17 projects for Vermont State Parks and the Vermont Department of Fish and Wildlife. Project experience includes those involving road reconstruction, new sidewalks, streetscape improvements, recreation paths, bridge construction, large culvert replacements, underground utility construction, stormwater mitigation, slope stabilizations and salt storage sheds.

Prior to his focus in public infrastructure projects, Mr. Travers was a successful project manager for general contractors in the commercial building arena as well as earthmoving contractors. Mr. Travers was directly responsible for managing the placement of over 250,000-cubic yards of concrete at a nuclear power plant and has extensive experience performing quantity takeoffs, developing cost estimates and assembling bids.

Mr. Travers is highly organized and has developed a keen skill for directing multiple projects concurrently. Mr. Travers is also adept at moderating efficient and effective project meetings and can effectively coordinate efforts among all stakeholders involved in a project, such as owners, engineers, contractors and the general public.

Personal strengths for Mr. Travers include strong verbal and written communication skills, public relations capabilities, and presentation skills.

Firm Experience

GPI. 02/20+. Project Manager & Construction Inspection Supervisor. In this role, Mr. Travers is responsible for procuring municipal project management and construction inspection contracts on public infrastructure projects, then managing those contracts, assigning onsite resident engineers to each project, and overseeing the work performed by those resident engineers. Additionally, Mr. Travers ensures that positive relationships are maintained with clients and GPI's services are provided in adherence to contract requirements. Responsibilities also involve overseeing quality control of work products, monitoring project schedules, keenly observing project budgets and generating work progress reports as required by state and federal funders.

Prior Firm Experience

Staff Sterling Management, Morrisville, VT 2007-2020. Project and Operations Manager. Responsibilities included marketing and assembling proposals for resident engineering, construction inspection and project management assignments within the municipal infrastructure arena, then managing those contracts once procured. A total of 38 municipal infrastructure projects were procured and managed, along with another 17 State of Vermont projects. Construction projects ranged up to \$3M in size and involved street reconstruction, new sidewalks, recreation paths, waterlines, stormwater collection systems, sanitary sewers, bridges, new building construction, building rehabilitations and historic preservation.

Vermont Small Business Development Center (SBDC), Randolph, VT. 1998-2007. Business Counselor. This position involved advising small business owners and



entrepreneurs on how to start up and successfully manage a business in Vermont. One-on-one counseling was provided to clients and business planning classes were presented. Many clients were able to secure business financing via their business plans developed through SBDC counseling.

Patrick Travers Construction Consulting, Burlington, VT. 1993-1998. Owner/Operator. Primary services offered were construction estimating and project management for small commercial construction contractors in northern Vermont and the North Country of New York State. The company also offered owner representation services as well as the development and presentation of seminars on construction estimating and project management. The company was licensed to present the VT. Department of Health Lead Paint Essential Maintenance Practices workshop to landlords of residential rental properties. Some 2,000 landlords statewide were educated through dozens of workshops.

CS Architecture and Construction, Burlington, VT. 1990-1993. Construction Project Manager. This position was responsible for on-site commercial construction supervision, including manpower oversight, budget monitoring, schedule managing and moderating project meetings. Projects included the Akwesasne Community Health Center for the Mohawk Nation, a 2,000-ft² medical facility that required the supervision of over 100 craft workers.

Simpson Construction, Inc., Rochester, VT. 1987-1989. Project Manager. This position was responsible for start-to-finish coordination of commercial construction projects for a general contractor that contracted up to \$20 million of work per year. Responsibilities included contract negotiations, scheduling, budgeting, procuring subcontractors, moderating project meetings, coordinating with on-site project supervision and maintaining client relationships. Most of the work was public school construction.

Spera Construction Company, Inc., Hartford, CT. 1986-1987. Construction Engineer and Estimator. Responsibilities included cost estimating, assembling bids, and managing commercial construction and public infrastructure projects for a heavy/highway, site work and earth moving contractor. Clients included cities and towns in Connecticut, and private developers.

Northeast Contracting Company, Inc., Middletown, CT. 1984-1986. Chief Engineer and Estimator. Responsibilities included calculating quantity takeoffs, determining construction costs and assembling bids for an excavation and site work contractor that focused on commercial construction projects in central Connecticut. Responsibilities also involved layout and construction engineering on site as well as representing the company at project progress meetings.

Stone and Webster Engineering Corporation, Boston, MA. 1981-1984. Senior Field Engineer. Responsible for coordinating operations of the on-site batch plant to support concrete placements for the \$4B Millstone III Nuclear Power Plant in Waterford, CT. Over the course of three years, more than 250,000-cubic yards of concrete meeting the requirements for nuclear facilities were placed in eight buildings that constituted the plant. Responsibilities also included oversight of unionized surveyors charged with layout work throughout the site.

Water Pollution Control Authority, Town of Waterford, CT. 1976-1981. Assistant Construction Engineer. This was an entry level position that involved construction inspection of a new municipal sanitary sewer system being installed throughout the town. Responsibilities included ensuring the work was in compliance with drawings and specifications, tracking quantities of work completed, capturing progress photos and approving contractor payment requisitions.

Volunteer Activity / Community Organizations

- President of Couples Field (Community Athletic Fields), Waitsfield, VT. 2019-Present
- Secretary, Board of Directors of Mad River Path, Waitsfield, VT. 2020-Present
- Board Member of Rootswork, Warren, VT. 2018-Present
- Founder and Coordinator of Mad River Valley Bocce League. 2019-Present
- Mad River Valley Rotary Club member. 2019-Present
- Shareholder, Mad River Glen Cooperative Ski Area, Fayston, VT. 1993-Present
- Past President, Canton Bicycle Club, Canton NY. 1993-1995
- Past member of Representative Town Meeting, Waterford, CT, 1970's

Jason Rowell, P.E.

Civil Engineer IV

PROPOSED PROJECT ASSIGNMENT: Municipal Project Manager

EDUCATION:

*BS in Civil Engineering - Norwich University –
2007 (GPA 3.1/ Dean's List/Member
ASCE/Member Chi Epsilon)*

*AS in Mechanical Engineering Technology -
Vermont Technical College - 2007 (GPA
3.5/Presidents List/Member Tao Alpha
PI/ASCE Award - Greatest Academic
Development; 2004/Mechanical Technician
of the Year 2005)*

*AS in Civil & Environmental Engineering
Technology - Vermont Technical College -
2004*

REGISTRATIONS/CERTIFICATIONS:

*ACI Concrete Field-Testing Technician, Grade
1 – 2023 (Anticipated Recertification)*

ATSSA Traffic Control - 2017

Permit-Required Confined Spaces – Entrant

Permit-Required Confined Spaces – Attendant

*Permit-Required Confined Space Rescue – For
Supervisors*

Defensive Driving

NETTCP Concrete Inspector - 2022

NETTCP Drilled Shaft Inspector – 2022

NETTCP Driven Pile Inspector - 2019

NETTCP HMA Paving Inspector - 2022

NETTCP Soils & Aggregate Inspector - 2017

NHI Driven Pile Inspector

Nuclear Density Gauge

OSHA 10-Hour

Professional Engineer – VT – 2020

VOSHA COVID-19 Workplace Protection

YEARS WITH FIRM: 13

TOTAL YEARS EXPERIENCE: 21

Professional Profile

Mr. Rowell is well versed in all facets of construction inspection. He is experienced in developing Quality Assurance plans and coordinating inspection activities for construction projects. He is proficient in project layout, general surveying and data collector operation, Site Manager, Site Manager Reports, E-Books, DocExpress, as well as plan, specification, and contract reading. He maintains great technical communications (Microsoft: Outlook, Excel and Word), and is good at developing and maintaining working relationships. He is skilled in creating record plans with AutoCAD and has experience in bridge design, plan review, and cost estimating.

Mr. Rowell served as a Resident Engineer, Chief Inspector, Office Engineer, or Inspector on the projects listed below.

Resident Engineer: As the Resident Engineer, Mr. Rowell was responsible for the administration and inspection throughout construction of the project. He ensured the project was constructed according to the contract documents and that all materials were in conformance with the specifications. He also ensured that all work was accomplished in accordance with all safety and environmental regulations. He served as the single point of contact for all project matters during construction. In addition to his RE duties, Mr. Rowell was responsible the administrative work for the contract, including project record compilation and documentation, entering Daily Work Reports, writing change orders and written orders, monitoring certifications and sampling, maintaining concrete and weather logs, and monitoring civil rights issues. **Chief Inspector:** As a Chief Inspector, he was responsible for the administration, engineering, and inspection of the project. Duties included survey including initial project control, verifying the contractor's layout during construction, and taking cross sections to determine pay quantities; monitoring field operations, verifying field measurements, coordinating sampling, traffic control, safety issues, public meetings, and general communication and documentation duties. As Chief Inspector, he also delegated duties to the inspector(s) and the Office Engineer.

Office Engineer: As an Office Engineer, he was responsible for the administrative work for the projects which included, but was not limited to, project record compilation and documentation, entering Daily Work Reports in Site Manager, drafting change orders and written orders, monitoring certifications, sampling, and test results, setting up the field office utilities, maintaining concrete, weather, and rain gauge logs, and monitoring civil rights issues.

Inspector: As an Inspector, he was responsible for providing direct inspection of the performance of the work by the contractor and aided in the administration, engineering, and survey. He was responsible for inspection of the contractor's physical operations to ensure adherence to the specifications for each item, documentation of the contractor's activities including measurement, calculation, and reporting of all pay items.

Project Experience

Greenman-Pedersen, Inc. 04/10+.

NCHRP 10-110 3D Modeling Guide for Construction Inspection. 11/22+. Assistant to Principal Investigator. The objective of this research project is to identify 3D model information required to support construction inspection, verification, and contract administration. Mr. Maxfield is responsible for performing the literature search, conducting a gap analysis, and developing a list of core competencies required for construction inspectors related to 3D digital delivery. *Client: National Academies of Science.*

Walden STP SCRP(27), Caledonia County, VT. 08/22-10/22. Chief Inspector. This project on VT Route 15 in the Town of Walden began at Mile Marker 1.889 and extended easterly for a distance of ~0.028 miles to Mile Marker 1.918. Work performed for this project included the removal and replacement of the existing corrugated metal pipe with a precast concrete box culvert and other highway

related items. *Client: VAOT; Aaron Weaver (RE)*

Elmore ER P20-1(808), Lamoille County, VT. 07/22-10/22. Chief Inspector. This project on VT Route 12 in the Town of Elmore began at Mile Marker 0.265 and extended northerly a distance of 0.009 miles (50 ft) to Mile Marker 0.275. Work performed for this project included culvert replacement requiring a 10-foot-deep cut and associated roadway items. *Client: VAOT; Aaron Weaver (RE)*

Montgomery STP DECK(40) C/2 & Montgomery STP DECK(47), Franklin County, VT. 04/22-08/22. Chief Inspector. **Montgomery STP DECK(40) C/2** – This project on VT Route 118 in the Town of Montgomery was for the replacement of Bridge 19 over the Trout River approximately 8.355 miles northerly of the Belvidere/Montgomery Town Line. The bridge is a three-span structure that is 177 feet long and 30 feet wide. Work performed for this project included the replacement of the existing bridge deck using conventional cast-in-place construction methods, new crash tested bridge railings, and related approach roadway and channel work. The new bridge deck will be continuous over the piers and has a greater load capacity than the existing deck. **Montgomery STP DECK(47)** – This project on VT Route 118 in the Town of Montgomery was for the replacement of Bridge 20 over West Hill Brook approximately 8.525 northerly of the Belvidere/Montgomery Town Line. The bridge is a three-span structure that is 127 feet long and 30 feet wide. Work performed for this project included the replacement of the existing bridge deck using conventional cast-in-place construction methods, new crash tested bridge railings, and related approach roadway and channel work. The new bridge deck will be continuous over the piers and has a greater load capacity than the existing deck. *Client: VAOT; Ryan Corkins (RE)*

Brownington STP SCRP(25), Orleans County, VT. 09/21-10/21. Chief Inspector. This project on VT 58 began at Mile Marker 1.435 and extended easterly 100-ft to Mile Marker 1.454. Work performed for this project included installation of a new precast concrete box culvert, headwalls, wingwalls, slope stabilization, removal of the existing culvert, and other highway and channel related items. *Client: VAOT; Aaron Weaver (RE)*

Stowe STP MM 20(4)/Stowe ER E20-1(818), Lamoille County, VT. 05/21-09/21. Resident Engineer. This project called for GPI providing professional engineering services as the prime consultant responsible for contract management and construction inspection for the construction of a new bridge on Stagecoach Road (TH 4) over Moss Glen Brook. The project consisted of replacement of culverts with integral abutments and prestressed concrete Next Beams and reconstruction of the roadway approaches. *Client: Town of Stowe, VT; Contact: Harry Shepard, Director of Public Works.*

Hartland IM 091-1(68), Windsor County, VT. 05/20-11/20. Office Engineer. This project included the replacement of Bridge D37 on Town Highway 41 (Depot Road) over Interstate 91. Work performed under this project encompassed the replacement of Bridge D37 with two new bridges on a new alignment, including associated approach work and removal of the existing bridge. The old bridge was a 6-span cast-in-place deck on rolled beams constructed in 1965 and was approximately 359-ft in length and 24-ft wide. The new structure is increased in width and features a crash tested bridge railing. The project used an innovative technology; Geosynthetic Reinforced Slope-Integrated Bridge System (GRS-IBS) for abutments. This was the first use of this technology in Vermont for bridges. The entire structure of the existing 6-span bridge was replaced with two short, single-span bridges using the GRS-IBS structures in the median and for abutments. Traffic was maintained on a privately-owned offsite detour. *Client: VAOT, Nicholas Newland (RE)*

South Burlington STP 5200(17), VT. 06/18-03/20. Chief Inspector. This project included the complete reconstruction of Market Street. The project included new subbase, pavement, sewer and water lines, underground utilities, drainage, stormwater treatment ponds, sidewalks, curbing, lighting, landscaping, traffic signal modifications, pavement markings, and other related items on new horizontal and vertical alignment. *Client: City of South Burlington, CT; Justin Rabidoux, Public Works Director*

Hardwick-Danville STP 2122(1), VT. 08/17-12/17. Chief Inspector. This 12.5-mile paving project was on VT 15. Work to be performed under this project included cold planing, resurfacing with leveling and wearing courses, guardrail, removal of retaining walls, drainage improvements, pavement markings, and other highway related items. *Client: VAOT; John Sladyk (RE)*

Barton Village BO 1449(33) and Barton Village BHF 0286(5), VT. 04/17 to 08/17. Chief Inspector. The BO project was to replace the bridge at the intersection of VT 16 and TH 4 (Roaring Brook Road) on a new alignment. The BHF project was to replace the bridge on VT 16 (Glover Street) on the existing alignment. Both projects were accelerated bridge projects and included demolition of the existing of the existing structures, pre-excavation and installation of pile foundations, forming, tying, and placement of cast-in-place abutments, installation of precast abutments, placement and pre and post-tensioning of pre-cast box beams, grouting of shear keys for box beams, the placement of rapid-set closures for approach-slabs, the forming, tying placement and aesthetic finishing of cast-in-place combination bridge rail, construction of full-depth approaches, removal of contaminated soils, installation of torch-applied bridge membrane, placement of pavement, and installation of plug-joints. *Client: VAOT; Kevin McClure (RE)*

Specification Coordinator. 10/16-04/17. Mr. Rowell served as a specification coordinator for the VTrans Construction and Materials Bureau's Pre-Contract and Specifications group. Jason's responsibilities included reviewing and verifying the completeness of proposed contract specifications to verify compatibility with plans, permits, traffic management plan, estimate, and general VTrans construction conventions. Jason's responsibilities also included reviewing the constructability of the plans and specifications to identify any areas of concern and then coordinate with construction staff, project managers, permitting groups, and specialist, to fully identify and resolve any specification issues. Mr. Rowell also assisted the Pre-Contract and Specifications Manager with identifying and establishing the workflow of this group (which was newly formed at the time) and developed some of the forms and guiding documents

that formalized this process. *Client: VAOT; Wendy Ducey, Pre-Contract & Specifications Manager*

Craftsbury BO 1449(34), VT. 07/16-08/16. Chief Inspector. This was an accelerated bridge project to replace Bridge 4 on TH 4 (Creek Road). The project included pile foundations with rock-sockets, Pre-Cast Bridge Units (PBUs), spray applied bridge membrane, reconstruction of approaches, and placement of pavement. *Client: VAOT; Seth Hisman (RE)*

Ryegate STP CULV(10), VT. 05/14-12/16. Assistant Quality Assurance Manager. This was a design-build project to replace the existing culverts under US Route 5 and the Washington County Railroad. This project included the construction of two 32' by 19' cast-in-place, concrete arch culverts that are 140' and 130' in length respectively. The construction of the proposed culverts required deep excavation techniques including sheet walls, tiebacks, soil nails and a dewatering system to facilitate the 65' deep excavation. The project also included the construction and launching of two 70'+ temporary modular bridges to maintain highway and railroad traffic during the excavation and construction of the culverts. Jason was responsible for assisting in all matters regarding QA for the project. This included developing the Quality Assurance plan, developing the individual Inspection Plans for each work package, conducting Inspectability Reviews for each work package, providing QA inspection during the construction of the work packages, coordinating acceptance testing, verifying the accuracy and completeness of material certifications, verifying conformance to the plans, permits, and contract, verifying conformance to the Quality Control Plan, document daily work activities, verifying survey layout with a robotic total station, assisting in leading a preparatory inspection meeting for each work package, and verifying that work packages were substantially complete. *Client: Engineers Construction Incorporated; Owner: VAOT*

New York State Thruway Authority Tappan Zee Bridge Replacement Project, Design/Build Quality Assurance, South Nyack, Tarrytown, NY. 10/13-04/14. Senior Quality Assurance Inspector. Mr. Rowell served as a Quality Assurance Inspector on the complete replacement of the existing Tappan Zee Bridge over the Hudson River north of New York City. It is a \$3.9B design-build project to create two new bridges to the north of the existing structure and to demolish the existing structure. Each new structure will be over 3 miles long. Jason's primary role was providing quality assurance for the installation of 36" to 72" diameter end bearing pipe piles that ranged from 50 to 280' in length. Additional responsibilities included providing QA for the assembly of two 1,000' long temporary work trestles. Jason was responsible for monitoring the contractor and the quality control personnel during the construction process to ensure they were in compliance with the contract documents, driving criteria, permits, and welding quality control plans. He was also responsible for determining when work was acceptable or was not in conformance. *Client: Tappan Zee Constructors, LLC; Owner: New York State Thruway Authority*

Montgomery-Westfield STP 2906(1), VT. 07/13-10/13. Inspector. This project was a 6-mile reclaim project on VT 242. Mr. Rowell was responsible for survey and layout for the Resident Engineer during the construction of the project. Mr. Rowell was tasked with programming the line, grade, and super-elevations into the data collector. He was also responsible for maintaining the traverse throughout the project including setting new points and checking the contractor's GPS fine grading operation to confirm it was in tolerance. *Client: VAOT; Seth Hisman (RE)*

Newbury-St. Johnsbury AC IM 091-2(76), VT. 04/13-07/13. Inspector. This project was an 18-mile interstate paving project. Work performed under this project included cold planing, resurfacing with leveling and wearing courses, guardrail, drainage, pavement markings, and other highway related items. *Client: VAOT; John Sladyk (RE)*

Newport City BRO 1449 (25), VT. 03/12-04/12 and 10/12-12/12. Inspector. This project on Mount Vernon Street included the removal of the existing structure, construction of a new 3-span continuous composite steel girder superstructure, new abutments, new piers founded on drilled shafts, and related roadway work. *Client: VAOT; Chris Craig (RE)*

Cabot-Danville FEGC F028-3 (26), VT. 05/11-12/11 and 05/12-10/12. Chief Inspector. This project was a 1.5-mile reconstruction and realignment of US 2 as well as the creation of a wetland mitigation site. The project included reconstruction and widening of the roadway including grading, drainage, subbase, pavement, penstock replacement, stream relocation, precast box culvert with MSE walls, creation of a wetland mitigation site, and other highway related items. *Client: VAOT; Jon Day (RE)*

East Montpelier STPG 028-3 (35)S, VT. 08/10-12/10. Chief Inspector. Work performed under this project included the realignment and reconstruction of the US 2 and VT 14 intersection which included new subbase, pavement, drainage, traffic control signal system, parking area, pavement markings, landscaping, and other related roadway items. *Client: VAOT; Pete Hodgson (RE)*

Statewide NE Region BHF MEMB(19), Multiple Locations in the Northeast Region, VT. 04/10-07/10. This project involved removing and replacing the sheet membrane waterproofing and bituminous concrete pavement and making minor deck repairs on 11 bridges. *Client: VAOT; Shane Morin (RE)*

Prior Firm Experience

Vermont Agency of Transportation Construction Division

Craftsbury BRO 1449(24), VT. 05/08-04/10. Civil Engineer II. Resident Engineer. Mr. Rowell oversaw all aspects of the project during construction. This project on TH 59 included the replacement of the existing bridge on the existing alignment with necessary approach roadway and channel work. Work performed under this project included cast-in-place abutments founded on piles, a voided slab deck

with an overlay, subbase, pavement, bridge and approach rail, and other highway and channel related items.

Barre Town HES 026-1(38), VT. 08/08-10/08 & 04/09-07/09. Inspector. This project consisted of the construction of a roundabout at the intersection of US 302, VT 110, and TH 30 (Cobble Hill Road). Work under this project included construction of the roundabout, realignment of the approaches, new sidewalks, drainage, landscaping, streetlights, relocation of a parking area to a turnout 1,300-ft northwest of the intersection. *Dave Hoskings (RE)*

Various Projects, VT. 05/08-08/08. Inspector. During this period, Mr. Rowell was assigned to a few different projects while waiting for the roundabout project to begin. He assisted with a 13-mile paving project, a safety project to replace guardrail on 40 miles of the interstate, and a slope stabilization project. He was responsible for identifying areas of the roadway that needed to be undercut. He calculated a new transition for the cross slopes of the roadway between two curves because the existing road was in very poor condition. He also worked on a statewide crack sealing project. He reviewed the contractor's traffic control packages on a day-to-day basis to make sure they complied with the MUTCD manual, identified traffic issues, and worked with the contractor to resolve traffic safety issues quickly.

Structures Unit, VT. 01/08-03/08 and 01/09-4/09. Bridge Designer. Under the supervision of the design engineer, Mr. Rowell performed the design calculations for the foundation, abutment stem, and wing walls of a 250' truss bridge using the LRFD bridge design manual. He started by generating all of the load cases for the structure to determine the governing foundation loads. Then, based on the geotechnical report, he performed preliminary calculations to size a pile foundation and a drilled shaft foundation. He utilized computer software to model both options and conducted a cost analysis between the two foundation types to determine which one would be most cost effective. After selecting the foundation type, he refined the model of the pile foundation, performed a check of the pile selected, performed the calculations for sizing the pile cap, abutment stem, and wing walls, sized the reinforcing steel and generated a reinforcing schedule, calculated the size of the pot bearings, selected a bridge joint, generated quantities, and estimated the cost for many items.

Alburgh-Swanton, VT. 06/07-12/07. Inspector. This \$32M project included the complete bridge replacement over Missisquoi Bay. The scope of work included the complete replacement of existing causeway and draw-span with 3,600' structure, 22 drilled shaft foundations, new causeways, and new approaches. He prepared the GPR data that a testing firm produced for the reinforcing steel concrete cover for the QC/QA deck. He also reviewed the data and put it into the appropriate sub-lots and calculated the standard deviation to generate the pay factor for each lot. *Jon Day (RE)*

Finals Unit, VT. 01/07 - 05/07. AOT Technician IV. Mr. Rowell reviewed and checked the final quantities for projects, reviewed record plans, and generated change orders.

Alburgh-Swanton, VT. 05/04-08/04, 05/05-08/05 & 05/06-08/06. Temporary Employee, AOT Tech II-IV. Mr. Rowell's duties included checking the contractor's layout of drilled shafts, inspecting the construction of the drilled shafts including the reinforcing cages to ensure the cages were placed and aligned properly, and sounding the bottoms of the shafts prior to concrete placement. He also inspected the construction of the bridge piers, erection of the structural steel, tensioning of bolts, took beam profiles, placement of the stay-in-place forms, installation of shear studs, tying of reinforcing steel, and the placement of the deck concrete. *Jon Day (RE)*

Various Projects, VT. 06/03-08/03. Temporary AOT Tech II. Mr. Rowell assisted two RE's with calculating final quantities and taking final sections. He also visited 424 rail crossings around the state to take an inventory of the sign and pavement marking conditions and to compare the items to what was required by the MUTCD manual. He also assisted with a reclaim stabilized base project. He inspected the reclaim and paving operations and the installation of the erosion control features.

Various Projects, VT. 06/02-08/02. Temporary AOT Tech I. Mr. Rowell worked on a small roadway job and a small-town highway bridge. He assisted the RE with inspection and calculation of final quantities. He was introduced to plans, specifications and engineering practices relating to construction inspection.

Edward Mark Douglas Woolaver

Civil Engineer IV

PROPOSED PROJECT

ASSIGNMENT: Municipal Project Manager

EDUCATION:

BS in Civil Engineering, University of New Brunswick - 1998

Civil Engineering Technology, New Brunswick Community College - 1994

REGISTRATIONS/CERTIFICATIONS:

ACI Concrete Field-Testing Technician, Grade 1 - 2020

NETTCP HMA Paving Inspector – 2022

Nuclear Density Gauge – RSO Cert

OSHA 10

VOSHA COVID-19 Workplace Protection

YEARS WITH FIRM: 4

TOTAL YEARS EXPERIENCE: 34

PROFESSIONAL AFFILIATIONS:

AASHTO / ARRA, Lead Member

AASHTO EDC, Lead States Member

AOT Guard Rail, Committee Member

AOT NETTCP, Coordinator / Member

AOT Pavement Design, Committee Member

AOT Pavement Marking, Committee Member

AOT Standard Drawings, Committee Member

AOT Standard Specifications for Construction, Committee Member

NEAUPG, Member

NESMEA, Member

PAV / AOT Committee, Lead Member

Pavement Working Group, Lead Member

Professional Profile

Mr. Woolaver has worked for GPI since 2019, as a Chief Inspector, after 30 years with the Vermont Agency of Transportation. Mr. Woolaver is capable and comfortable of working independently with minimum supervision and committed to responding wherever the need may be. He is a professional and motivated individual who consistently performs in challenging environments. Mr. Woolaver is an active member of many committees and is comfortable performing presentations, trainings, and public speaking. Mr. Woolaver served as Chief Inspector on the projects listed below.

Chief Inspector: As a Chief Inspector, he was responsible for the administration, engineering, and inspection of the project. He was accountable for surveys, including initial project survey, verifying the contractor's layout during construction, and taking cross sections to determine pay quantities. Other duties included monitoring field operations, verifying field measurements, and coordinating sampling. Traffic control, safety issues, public meetings, and general communication and documentation duties were also included. As Chief Inspector, he delegated duties to the Inspector(s) and the Office Engineer.

Project Experience

Greenman-Pedersen, Inc. 04/19+.

Richmond-Bolton STP 2924(1), Chittenden County, VT. 06/22-06/24. Chief Inspector. This project on US Route 2 began at Richmond Mile Marker 0.000 and extended easterly a distance of 8.261 miles to Bolton Mile Marker 1.866. Work performed for this project included coarse-milling bituminous pavement, concrete subsurface slab removal, subbase, base course, intermediate course, and wearing course of pavement, correcting superelevation deficiencies, pavement markings, guardrail improvements, drainage improvements, culvert replacements, signs, traffic signal improvements, and other related highway items. *Client: VAOT; Josh Hulett (RE)*

Williston STP SCRP(17), Chittenden County, VT. 07/21-07/22. Chief Inspector. This project on VT Route 2A in the Town of Williston began at Mile Marker 3.938 and extended northerly for a distance of -0.009 miles (45.00 ft) to Mile Marker 3.946. Work performed for this project included replacement of the existing culvert with a new 42" culvert, headwalls, channel stabilization, concrete sidewalk replacement, and other roadway related items. *Client: VAOT; Kara Yelinek (RE)*

Williston STP M 5500(7)S, Chittenden County, VT. 03/21-06/22. Chief Inspector. GPI provided construction inspection services for this project. This project began on

U.S. 2 approximately 0.017 miles east of the South Burlington-Williston Town Line and extends east 0.289 miles. Work on this project includes highway reconstruction, realignment and widening of U.S. 2 and Industrial Avenue including grading, drainage, subbase, pavement, utilities, and other highway related items. *Client: VAOT; Josh Hulett (RE)*

North Hero-Grand Isle BHF 028-1(26); Grand Isle County, VT. 12/20. Chief Inspector (Night Shift). GPI provided construction inspection and claims analysis services for this project. This project on US 2 is for the replacement of Bridge 8. This drawbridge is a historic twin leaf bascule bridge and is the only moveable bridge in the State of Vermont. The contractor was required to build a temporary drawbridge prior to replacing the existing drawbridge, so that impacts to vehicular traffic were minimized. The project was contracted following the Construction Manager/General Contractor (CMGC) process. *Client: VAOT; Taylor Waring (RE)*

Underhill-Cambridge STP PS19(11)/Cambridge CMG PARK(40), Chittenden and Lamoille Counties, VT. 04/20-11/20. Chief Inspector. The Underhill-Cambridge paving project began on VT 15 at Underhill MM 4.347 and extended 8.496 miles through Westford to Cambridge MM 5.071. Work to be performed under this project included coarse milling, cold-in-place recycling, resurfacing with leveling and wearing courses, signs, guardrail, drainage, pavement markings, and other related highway items. The Cambridge Park and Ride project was located on the south side of VT 15 just east of the intersection of VT 15 and VT 104. Work to be performed under this project included upgrades to the existing facility with LED lighting, EV charging station outlets, pavement markings for 20 parking spaces, a bus shelter, bike rack, and other amenities. *Client: VAOT; Josh Hulett (RE)*

Burlington STP 2035(15) C/1, Chittenden County, VT. 10/20-11/20. Chief Inspector. This project was in the City of Burlington at the intersection of College Street and the Vermont Railway (DOT Crossing Inventory No. 837-102H), approximately 465-ft west of the intersection of College Street and Battery Street. Work to be performed under this project included the construction of new drainage infrastructure in advance of the future railroad crossing improvements at this location. *Client: VAOT; Ryan Sengebush (RE)*

Georgia ER E20-1(824), Franklin County, VT. 02/20-03/20. Chief Inspector. This project was located on Interstate 89 at MM 106.7. This was an emergency project on Bridge 85-1. The project involved rehabilitating a 580-ft long, 11-ft-7" by 10-ft-6" corrugated galvanized metal plate pipe culvert under an average of 17-ft of fill. There was piping through the deteriorated invert of the pipe that was causing a sink hole and to the closure of the travel lane of the northbound barrel. Work to be performed under this project included installing a 9-ft diameter slip liner and mortar injections to repair areas of settlement with traffic maintained on crossovers. Directional drilling was used for the dewatering operation. In addition, a beveled headwall was constructed at the inlet and baffles were installed inside the culvert liner and weirs downstream to ensure the movement of aquatic species. *Client: VAOT; Chris Lavalette (RE)*

Essex-Underhill STP PS19(6), VT. 05/19-01/20. Chief Inspector. Work performed under this project included milling and resurfacing with a leveling and wearing course, pavement markings, guardrail and drainage improvements, and other highway related items on 13 miles of VT 15. *Client: VAOT; Josh Hulett (RE)*

Essex NH 2931 (2) & Jericho-Richmond STP 2931 (1). 04/19-11/19. Chief Inspector. Work on this project included cold planing, reclaiming with emulsion injection, correcting superelevation deficiencies, resurfacing with base course of cold mix, intermediate and wearing courses of hot mix, pavement markings, guardrail, drainage, and other related highway items on 6.8 miles of VT 117. *Client: VAOT; Josh Hulett (RE)*

Prior Firm Experience

Vermont Agency of Transportation, Montpelier, VT. 10/07-04/19. Construction and Materials Paving Engineer. Mr. Woolaver is currently independently responsible to cover the State of Vermont as the subject expert in the field of various highway construction activities and HMA bituminous paving operations. His day-to-day activities throughout the State serve to ensure consistency and protect the annual State investment of the current \$110M program. He reported on a periodic basis to management personnel. *Client: VAOT*

Vermont Agency of Transportation, Montpelier, VT. 08/97-10-07. Highway Design Project Manager. Mr. Woolaver was independently responsible for a Project Supervisor Design staff of six State personnel along with administering six consultant 3-year retainer Contracts of \$3M/Contract. He was responsible for guiding the annual design of the program through to success and completion such that the annual program would be completed. Also responsible for reviewing and drafting, for management review, VAOT Policy ensuring the program goals were met, successful, and in line with FHWA requirements. He reported on a periodic basis to management. *Client: VAOT*

Vermont Agency of Transportation, Montpelier, VT. 12/94-08/97. Highway Design Project Supervisor. At the request of in-house management, he was transferred to this position from the field position. In this capacity, he was responsible for the review of consultant designed project plans and performed Contract processing of the State's annual paving/roadway program. He worked independently with consultant designers to ensure compliance with Vermont State Standards and to ensure the approximate \$75M program would be successful. *Client: VAOT*

Vermont Agency of Transportation, Montpelier, VT. 05/91-12/94. Highway Construction Inspection Engineer. Mr. Woolaver was independently responsible for the inspection and documentation of construction activities to ensure operations followed compliance with all Contracted Plans and Specifications. He reported to the project Resident Engineer on an as needed basis to update on construction progress. Notable projects included the inspection of US 7 in Charlotte as well as the full depth reconstruction of Dorset St. in So. Burlington which included all underground utility, drainage, and appurtenances. He was also concurrently responsible for the inspection of intersection signal and resurfacing projects. *Client: VAOT*

Vermont Agency of Transportation, Montpelier, VT. 11/88-05/91. Highway Design Engineer. Mr. Woolaver was independently responsible for the design of Highway improvement projects under general supervision. Projects included the full depth reconstruction and surface treatments on both urban and rural routes throughout the State of Vermont. Examples of such were the full depth design of a major collector in So. Burlington VT (Patchen Road) including all drainage and utility features. Also included as an example was the design and subsequent construction inspection of a PCC rehabilitation project on US 7 in Charlotte which included the design and construction a crack and seat procedure never performed in the State. *Client: VAOT*

Recent Speaking / Presentation Activities

- AOT Construction Consultant Inspection Training
- AOT Construction and Materials Spring Meeting
- NESMEA / NEAUPG – IC and Quality in Construction
- Maine DOT Invitational / Consultant – Peer advise on Construction Project Failures
- 1st National FHWA Conference on IC Experiences
- SHRP / EDC HfL Showcase of IC, WMA, Quality in Construction, Safety Edge to NE States
- EDC Representative for VAOT on IC and AMG / 3D Modeling
- NH DOT Paving Association / Consultant on Paving Practices
- NVDA / Best Contracting and Construction Practices

- SHRP2 / FHWA Kickoff – History of FDR in Vermont
- FDR Technical Presentation for AOT Construction RE's
- ICDM Presentation for AOT RE's and Contractors
- GPI Consultant Spring Meeting – General Presentation, IC, Best Practices
- Penn DOT Invitational IC Presentation
- STIC / Briefs RE IC and AMG to Exec staff and FHWA
- Pike Industries Managers Spring Meeting / Vermont Expectations / IC / Quality in Construction
- FHWA / SHRP Southern States invite closed door meeting / R07 Performance Related Specifications
- ARRA NE States Conference Organizer / Performance Related Specs and field demos
- FHWA SHRP Peer to peer Exchange – Performance Related Specs
- FHWA / SHRP Western States Open Door Technical Exchange / SHRP2 R07

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