

RESPONSE TO REQUEST FOR QUALIFICATIONS FOR

At-The-Ready Consultant Engineering Services for Municipalities 2023

Construction Inspection Services

Vermont Agency of Transportation
Municipal Assistance Bureau

February 9, 2023





Stantec has been providing an array of planning, design, engineering, construction inspection, and project management services to VTrans and the municipalities and communities of Vermont for over 65 years.



What's inside

- A. Cover Letter
- B. General Firm Information
- C. Organizational Chart
- D. Availability Chart
- E. Construction Inspection Services
- F. Resumes

A.

COVER LETTER

Saranac River Trail, Plattsburgh, New York



A.

COVER LETTER



Stantec Consulting Services Inc.

193 Tilley Drive, Suite 101
South Burlington, Vermont 05403

February 9, 2023

Nydia Lugo

Civil Engineer
Vermont Agency of Transportation
Highway Division - Municipal Assistance
219 North Main Street
Barre, VT 05641

RE: RFQ for At-The-Ready Consultant Engineering Services for Municipalities, Construction Inspection Services, 2023

Dear Ms. Lugo:

We're active members of the communities we serve. That's why at Stantec, we always design with community in mind. When we take on a project, we see more than a highway, road, bridge, or pond. At Stantec, we look at every challenge as an opportunity to bring communities together. In the face of ever-increasing budget constraints and the need for an expanding range of services, having a trusted team, such as Stantec makes sense for your high priority projects requiring multi-disciplined consultation. Our proposed team, of engineers and environmental scientists is broadly skilled and has extensive experience with the design, project management, and construction inspection services typically required for projects administered through the VTrans Municipal Assistance Section (MAS).

Our staff are recognized regional leaders in transportation and stormwater projects and have worked hand-in-hand with Vermont communities for many years. We have the experience and capacity to provide the highest level of service to our communities for the following reasons:

We Know the VTrans Project Development Process: The results speak for themselves. Our team members have provided design, project management, and construction inspection services for over 40 MAS funded transportation and stormwater projects over the last 10 years. Our team knows what it takes to move a project from concept to 100% design and into construction. It is one reason why Stantec has been repeatedly selected by our existing clients.

We understand Financial Constraints Facing Vermont Municipalities: Vermonters deserve high-quality services delivered in a reasonable amount of time to avoid unnecessary schedule delays and change orders during construction. First-rate work from a firm that is experienced with state and federally funded projects can result in tens or even hundreds of thousands of dollars saved during construction. Our team has a successful record of doing this for Vermont municipalities. It is our primary goal for every project we work on.



Design with community in mind

We Know State and Federal Regulations: We have knowledge of state and federal regulations. Over 95% of the work done by this team is state and federally funded, meaning these projects meet their requirements and follow their processes. Unique requirements typically include NEPA documentation, state and federal permitting and clearances, and right-of-way acquisition procedures.

We Are Committed to Vermont: Living and working in Vermont, and having worked with VTrans and many Vermont municipalities for over 65 years, we are passionate about helping our communities. We believe the best way to do this is to provide quality, innovative, and responsive service. That is our commitment.

We emphasize the depth of our in-house resources, our specific knowledge of MAS projects and processes, and our ability to respond both timely and in sufficient detail to sustain progress and maintain the project schedules. We look forward to continuing to contribute our enthusiasm and skills to improve Vermont's infrastructure and environmental footprint. Thank you for your consideration.

Sincerely,

Stantec Consulting Services Inc.

A handwritten signature in black ink, appearing to read 'Greg Goyette'.

Greg Goyette, PE

Principal, Transportation
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A handwritten signature in black ink, appearing to read 'John Little'.

John Little

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B.

GENERAL FIRM INFORMATION

Burlington S. Winooski Ave. Complete Street Quick Build, Burlington, Vermont



GENERAL FIRM INFORMATION

Introduction to Consultant

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise, to appreciate nuances and envision what's never been considered, to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, construction inspectors, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe. Projects that we're proud to be a part of and stand behind.

Company Information

Projects will be completed out of our South Burlington, Vermont office as Stantec Consulting Services Inc., a division of the Stantec group of companies.

FIRM NAME

Stantec Consulting Services Inc.

BUSINESS ADDRESS/PHONE/EMAIL

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YEAR FIRM WAS ESTABLISHED/ FORMER FIRM NAMES

Stantec Inc. was formed in 1954 in Canada. Stantec Consulting Services Inc., however, was originally incorporated in 1929 as Manhasset Civil Engineers and was eventually acquired by Stantec Consulting Group Inc. in 2004 (later renamed to Stantec Consulting Services Inc. that year). Stantec Consulting Services Inc. established the South Burlington, Vermont office in 2006 following the acquisition of Dufresne-Henry.

Stantec & Vermont

For 65+ years Vermont municipalities have been, and continue to be, very important clients to our team. We have a strong desire to be involved in our communities and are prepared to commit the necessary resources to help you succeed. Our deep and talented team offers Vermont municipalities the support of our many local staff who have established relationships with various local, regional, and state officials. As local and experienced staff, we can readily provide the closeness, accessibility, responsiveness, project area familiarity, and local contact to streamline the work and provide successful projects on your schedule.

Firm's Capabilities to Perform the Work

Our local team of planning, design, and engineering professionals has decades of first-hand experience in Vermont. The South Burlington office staff will lead these services. When needed, support from other regional offices can be readily solicited. These regional offices have over 2,000 staff members who can handle virtually any assignment. The result of this connected team's resources, knowledge, and experience is an unmatched commitment to meet your project's needs.

Understanding of the Work Required

Through our involvement with the Municipal Assistance Section (MAS) over the last 20+ years and working with VTrans on over 15 retainer type contracts that date back to 1992, Stantec team members understand what it takes to successfully plan, design, and construct projects that receive funding through the MAS program. We have worked with MAS and municipal staff to move over 40 projects into construction over the last 10 years, and are currently working on over 10 projects that are in varying stages of project development.

A successful project is the result of identifying project issues and working together to find solutions. This includes the ability to anticipate issues and methods to expedite the project development process. Stantec team members have done this consistently for MAS projects. They understand that team work with municipal representatives and VTrans are paramount to successfully delivering projects. Our team members have a great understanding of not only how



Shoreham Buttolph Road Culvert, Shoreham, Vermont

to find solutions for design and construction challenges, but also of issues that require early coordination such as utility relocations, environmental permitting, and right-of-way acquisition. The team members shown on the organization chart include specialists in ROW plan and document development, utility coordination and relocation design, and environmental permitting including stormwater, wetlands, Act 250, and local review. Stormwater permitting is a complex issue in Vermont. Team members are very knowledgeable on how requirements apply to transportation projects. We have helped VTrans and ANR develop the Transportation chapter for the recently released and revised Vermont Stormwater Management Manual and are at the forefront of innovative stormwater practices that help municipalities not only meet their regulatory obligations but also improve water quality for our communities.

Team members are also familiar with the “Municipal Assistance Bureau Local Project Guidebook for Locally Managed Projects”. This document is used by Stantec as a framework for developing a detailed scope of work for each assignment and for helping municipalities navigate requirements associated with state and federally funded projects.

Past experience has also proven that having knowledge of the local area and established local relationships are a great benefit. Having worked in Vermont for over 65 years, our team has these qualities and resources. From our experience with working with the VTrans MAS program, we also understand the value of having a team with a

wide range of capabilities, experience, and resources. For instance, when, the Town of Waterbury requested graphics to help the community better understand the upcoming construction of Main Street, Stantec’s graphic artists were available to assist and quickly produce these graphics that were positively received by the community.

Having worked on numerous projects administered through the Municipal Assistance Section, our project team understands the constraints our communities are often working with. Project funding is often based on cost estimates prepared during the scoping phase. This project funding is typically capped and any design and construction costs over the budgeted amount often become the responsibility of the municipality. Our team has had numerous successes working with Vermont communities to move these types of projects into construction and within their allotted budgets.

How to Work with Stantec

The organization chart on page 15 includes Stantec’s personnel that are available to support your projects. If a municipality elects to work with Stantec on their project, they can notify Stantec’s Program Manager, **Greg Goyette**. Greg will then discuss the project with Assignment Managers and assemble the team that has the qualifications and availability to complete the work. The Assignment Manager will then work closely with the appropriate municipal staff to develop a scope of work and fee that fits expectations and budget.

Subconsultants

Vermont Survey & Engineering (VSE) | Survey Services

FIRM NAME

Vermont Survey and Engineering, Inc.

BUSINESS ADDRESS/PHONE/EMAIL

79 River Street, Suite 201
Montpelier, Vermont 05602
P: (802) 229-9138
E: info@vermontsurvey.com

YEAR FIRM WAS ESTABLISHED/ FORMER FIRM NAMES

Vermont Survey and Engineering, Inc. (1982)

Vermont Survey and Engineering, Inc. (VSE) is a New England-based Land Surveying firm, first incorporated in 1982. VSE's client base encompasses Federal, State, and Municipal agencies as well as commercial, industrial, and residential developers. They provide survey services to engineering firms, architectural firms, environmental firms, utility companies and construction companies. Their professional staff includes land surveyors licensed in Vermont, New Hampshire, and New York. Right-of-way services primarily focus on highway design and related activities for State and Municipal agencies, including the preparation of right-of-way plans and associated title abstracting. Surveying services include construction layout surveys, geodetic control and topographic, hydrographic, boundary retracement, and ALTA/ACSM.

Their extensive experience working on all types of VTrans and municipal projects have included projects for highway, bridges, shared-use paths, aviation, rail, and right-of-way. Their services cover topographic survey, establishing, and setting control, creating right-of-way plans, and boundary retracement plats. VSE has provided boundary surveys for Vermont Department Buildings & General Services and right-of-way plans for the New Hampshire Department of Transportation. They have consistently delivered skilled personnel and expertise to the many VTrans projects, and are committed to continuing this relationship and quality product during this contract.

S. W. Cole Engineering | Construction Materials Testing Services

FIRM NAME

S. W. Cole Engineering, Inc.

BUSINESS ADDRESS/PHONE/EMAIL

226 Holiday Drive Basement Suite 4
White River Junction, VT 05001
P: (802) 281-4559
E: info@swcole.com

YEAR FIRM WAS ESTABLISHED/ FORMER FIRM NAMES

S. W. Cole Engineering, Inc. (1979)

Established in 1979 in Bangor, Maine, S. W. Cole Engineering, Inc. is a geotechnical engineering, geo-environmental consulting and construction materials testing firm serving private and public sector clientele across New England with offices in Vermont, Maine, New Hampshire, and Massachusetts. Their team of engineers, scientists and technicians provide services on more than 1,800 projects each year.

Their services include:

GEOTECHNICAL ENGINEERING: Their licensed engineers provide sensible geotechnical solutions for foundations, earthwork and pavements associated with building, site development and infrastructure projects in New England. Services include:

- Geotechnical Feasibility Studies
- Subsurface Investigations
- Spread Footing Design Parameters
- Deep Foundation Engineering and Design
- Ground Improvement Engineering
- Excavation and Dewatering Consulting
- Retaining Wall and Slope Stability Analyses
- MSE Retaining Wall Design
- Pavement Engineering and Design
- Geotechnical Laboratory Testing

GEO-ENVIRONMENTAL SERVICES: Their geologists provide services from pre-construction evaluation of a project to exploring ways to protect the land and groundwater after its development. Services include:

- Phase I and Phase II Environmental Site Assessments
- Geothermal Ground Source Investigations
- Groundwater Monitoring and Soil Sampling Resistivity and Conductivity Testing
- Underground Storage Tank Site Assessments
- Water Resource Evaluations
- Construction Blasting Assessments
- Subsurface Stormwater Soil Assessments
- Third-Party Inspection Services
- Environmental Compliance Monitoring

CONSTRUCTION MATERIALS TESTING & SPECIAL INSPECTIONS: Their certified technicians provide field and laboratory testing for soil, concrete, masonry, steel, fireproofing and asphalt construction materials, including:

- Construction QA/QC Programs and Monitoring
- Earthwork Observations and Compaction Testing
- Reinforced Concrete Testing and Special Inspections
- Soil/Aggregate Sampling and Testing
- Structural Masonry Testing and Special Inspections
- Structural Steel Testing and Special Inspections
- Spray-Applied Fireproofing Testing and Special Inspections
- Pavement Evaluation and Testing
- IBC Special Inspection Coordination
- Slab Flatness and Moisture Testing

S. W. Cole has the staff and resources needed to complete projects under these contracts cost effectively and on schedule. The size and resources of their company and the capabilities of their staff allow them to balance large and small projects with varying schedules. Their staff size has grown regularly since 1979, in response to the needs of our clients. They have experienced low turnover of their staff, enabling them to provide continuity of their personnel while demonstrating their commitment to their clients' projects. S. W. Cole currently serve on average about, 1800 projects per year and are in a position to start providing services immediately. They have demonstrated their ability to meet their client's needs for over 40 years. /

John Turner Consulting | Construction Materials Testing Services

FIRM NAME

John Turner Consulting Inc.

BUSINESS ADDRESS/PHONE/EMAIL

19 Dover St,
Dover, NH 03820
P: (603) 234-0850
E: johnt@consultjtc.com

YEAR FIRM WAS ESTABLISHED/ FORMER FIRM NAMES

John Turner Consulting Inc. (1997)

John Turner Consulting, Inc. (JTC) is a multi-discipline consulting firm founded in 1997, providing geotechnical engineering and consulting, environmental consulting, special inspections, utility inspections, highway inspections, materials testing, and structural and infrared evaluations. JTC has offices throughout the northeast: Dover and North Hampton, NH; Sutton, MA; Bangor and Lisbon, ME; and Hartland and South Burlington, VT. JTC maintains in-house laboratories that are accredited through AMRL, CCRL, AASHTO, and the U.S. Army Corps of Engineers.

Their services include:

MATERIAL TESTING: JTC has complete laboratory facilities for the testing and evaluation of concrete, asphalt, masonry, soils, fireproofing, and steel, as well as miscellaneous materials such as wood. Our laboratory meets the requirements of ASTM C1077 and E329 and have the following credentials:

- Successfully inspected by the Cement and Concrete Reference Laboratory (CCRL)
- Successfully inspected by Northeast Transportation Technician Certification Program (NETTCP)
- Accredited by the American Association of State and Highway Transportation Officials (AASHTO)
- Licensed as a Concrete Testing Laboratory by the Commonwealth of Massachusetts Board of Building Regulations and Standards
- Validated by the U.S. Army Corps of Engineers
- Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 600246-0)
- MassDOT approved laboratory for ASR [Alkali-Silica Reactivity Testing—AASHTO T 303 (modified)/ ASTM C1567] (JTC is part of the select list of laboratories approved in the Northeast)

GEOTECHNICAL ENGINEERING: JTC's Geotechnical Services Division is led by a professional engineering staff licensed in all New England states and New York. This highly qualified group of geotechnical engineers possesses the project experience to effectively address the challenging geotechnical issues of the northeast. Our multi-faceted geotechnical operations are organized according to specific areas of discipline and expertise, in order to efficiently respond to project needs. JTC works with engineers, architects, design teams, and others to determine the most appropriate scope for the subsurface investigation for each project, and will then:

- Geotechnical engineering evaluation and recommendations
- Coordinate drilling operations, including site and boring layout and depth(s)
- Provide DigSafe and utility clearances
- Collect and log field soil, rock, water, and other samples needed for analysis
- Obtain undisturbed samples
- Conduct appropriate laboratory testing



Waterbury I-89 Exit 10 Bridge, Waterbury, Vermont



ORGANIZATIONAL CHART

Burlington Champlain Elementary Pedestrian Improvements, Burlington, Vermont



Program Manager

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Design Services

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DESIGN SERVICES		
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Lead Engineers

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Subconsultant Support

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ARCHEOLOGY / HISTORIC		
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Municipal Project Management Services

Assignment Managers

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Construction Inspection Services

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Construction Inspectors

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Subconsultant Support

MATERIAL TESTING		
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John Turner Consulting	603.379.9162	info@consultjtc.com

SURVEY		
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Additional Technical Support / Discipline Leads

PAVEMENT DESIGN		
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BIKE / PEDESTRIAN / COMPLETE STREETS		
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ENVIRONMENTAL (CONTAMINATED SOILS, NEPA, PERMITTING)		
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UTILITIES (WATER / SEWER, TUNNELING / TRENCHLESS, RELOCATION)		
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* Resume included for key staff in Section F

D.

AVAILABILITY CHART

Fairfield Juaire Road Bridge, Fairfield, Vermont



Availability Chart

The following chart details availability of key staff members to devote to municipal projects over the next 6 months and an estimate of how much time each staff member has historically worked on municipal projects. It's important to note that, no matter the firm, staff availability will likely change over the life of the prequalification due to new assignments, staff turnover, promotions, and other factors. Stantec's unique depth, breadth, and quality of design professionals in Vermont uniquely positions us to absorb these changes without sacrificing the quality of design services that our clients have come to expect from us. In addition, we have had a very low turnover rate of key staff over the last 10 years, which leads to our clients receiving quality service on a consistent basis.

6 - Month Outlook

Team Member	Project Role	Estimated Hours Available Over the Next 6 Months	% Time Typically Spent on Municipal Projects
Greg Goyette, PE	Program Manager, Assignment Manager – Design, MPM	300	50%
Greg Edwards, PE	Assignment Manager – Design, MPM, Construction Inspection, Grant Writing	200	20%
Mike Fowler, PE	Assignment Manager – Design, Pavement Design, Rail	1000	30%
Israel Maynard, PE	Assignment Manager – Design, Hydraulics/Culvert Design	500	30%
Marc Foisy, PE	Assignment Manager - Design	300	50%
Erik Alling, PE	Assignment Manager – Design, Bike/Ped/Complete Streets	500	85%
Amanda Ludlow	Assignment Manager – Design, Stormwater Design/Analysis	500	50%
Tom Knight, PE	Assignment Manager - Design, Bridges	500	50%
Thad Luther, PE	Assignment Manager – MPM, Lead Engineer, Traffic Signal Design	300	50%
Rick Bryant, PE	Assignment Manager – MPM	300	50%
John Little, CPESC	Assignment Manager – MPM, Construction Inspection	500	50%
Justin Rabidou	Assignment Manager – MPM	500	50%
Gary Santy, PE	Assignment Manager – MPM	200	50%
Karl Richardson, PE	Lead Engineer	500	50%
Todd Duguay, PE	Lead Engineer, Construction Inspection	500	50%
Dave Youlen, PE	Lead Engineer	500	50%
Glenn Burgmeier, PE	Lead Engineer	500	50%
Chris Gendron, PE	Lead Engineer, Stormwater Design/Analysis	500	70%
Walt Woo, PE	Lead Engineer, Traffic Signal Design	500	40%

6 - Month Outlook - Continued

Team Member	Project Role	Estimated Hours Available Over the Next 6 Months	% Time Typically Spent on Municipal Projects
Jared Grigas, PE	Lead Engineer	500	50%
Caela Peterson	Lead Engineer	500	40%
Sean Neely	Lead Engineer	500	50%
Bernie Gagnon, PE	Construction Inspection, Traffic Management/Constructability	500	50%
Doug Campbell, PE	Construction Inspection, Utilities	500	75%
Deron Barnes	Construction Inspection, Engineer/Technical Support	500	50%
Justin Laperle, EIT	Construction Inspection	500	50%
Rachel Galus	Construction Inspection	500	50%
Andrew McQueeney	Vermont Survey & Engineering	500	50%
Stephen Fraser, LS	Vermont Survey & Engineering	500	50%
Jason Riley	Vermont Survey & Engineering	500	50%
Dr. Brent Venables	Hartgen Archaeological Associates	150	30%
Walter Wheeler	Hartgen Archaeological Associates	100	20%
Alan Brown	S.W. Cole Engineering	550	10%
Scott Harmon	S.W. Cole Engineering	500	10%
Thomas Morgan, PE	S.W. Cole Engineering	500	15%

E.

CONSTRUCTION INSPECTION SERVICES

Shared-Use Path, Montpelier-Berlin, Vermont



E.

CONSTRUCTION INSPECTION SERVICES

Qualifications and Experience

CONSTRUCTION INSPECTION

Since 1954, Stantec has provided a full range of construction engineering and inspection services to state and municipal clients. We have a local Vermont staff of over 60 people which makes us one of the largest employers of consulting engineers in our state. We have been providing construction services to municipalities in Vermont for over 35 years. Just in the last ten years, Stantec has completed over 25 construction inspection assignments for various municipalities. These projects include full road reconstruction, streetscape, sidewalk, curb, shared-use path, retaining wall, drainage, paving, lighting, landscape, water, sewer and stormwater construction. Since 1956, Stantec has provided a full range of construction engineering and inspection services to state and municipal clients. Most of these projects have utilized the VTrans Standard Specifications for Construction, so our team is very familiar with them. Because we also do a tremendous amount of design work for municipalities and VTrans, those standards are like second nature to our staff. Our construction staff frequently provides constructability reviews for our designers and the interaction and clarifications that follow provide our designers with a better product and our construction staff with an even more in-depth knowledge of these standards. They understand there is a significant amount of responsibility in providing resident engineer services on a municipal project. Through their experience, they realize these projects require more responsibility in the administration, coordination and issue resolution of the project and they look forward to these projects and the additional responsibility. This group has a significant record of successfully getting local projects managed through construction.

In addition to our work on municipal projects, since 2001, we have been assigned 10 VTrans term agreements for construction inspection. On these projects, we have provided a wide range of construction inspection services including, but not limited to: earthwork, drainage, stormwater management, pavement milling, joint repair; crack sealing, asphalt and concrete paving, pavement markings, intersection improvements, sidewalks, retaining walls, roadway lighting, traffic signal systems, intelligent transportation systems (ITS) equipment installation, sign and sign structure replacement, installation of appurtenances such as guide railing, median barrier, and fencing; and landscaping. Our assignments have varied in

duration and the number of inspectors was adjusted to meet the project need. The projects we worked on also included traffic management strategies such as construction phasing, lane closure restrictions, detours, night and weekend work, critical path method schedule provisions, and involvement with local communities.

TUNNELING AND TRENCHLESS SOLUTIONS

Aging buried culverts that allow flow of surface water form part of today's roadway infrastructure that could potentially create significant problems if the culvert lining were to fail. Once a degraded section of a culvert cracks or opens, the soil backfill above the culvert may flow into the structure that could ultimately result in roadway settlement causing a safety concern for the traveling public. Furthermore, increased stream flow associated with climate change and resulting flow from major storm events are an additional concern where culverts are degraded or inadequately sized to carry the volume of flow. The need to rehabilitate or replace deteriorated or undersized culverts is exacerbated for major roadways that cannot be closed or where the depth of the culvert is not practical for open cut replacement. The Stantec team can assist the municipality in constructing these creative solutions to mitigate hazards through assistance with the development of trenchless design documents and with construction management of replacement culverts.

Tunneling and trenchless solutions allow infrastructure to be constructed while maintaining stream flow as well as traffic. Stantec's Tunneling and Trenchless Practice is experienced in developing and constructing innovative technical solutions to minimize disruption to the public for the rehabilitation of the existing infrastructure or installation of a new utility. A wide variety of trenchless technology solutions are available including microtunneling, horizontal directional drilling (HDD), pipe jacking or sequential excavation methods to name a few. The team can assess the ground conditions to determine a cost effective, optimal trenchless solution to either rehabilitate the existing culvert or construct a new culvert. The Stantec team is also experienced in construction management of the full range of available trenchless technologies, and working together with the municipality we will make sure the project is built in accordance with the design documents, and with adequate construction documentation to support design validation.



Richmond Bridge Painting, Richmond, Vermont

BRIDGE PAINTING

Stantec has more than 30 years of experience providing bridge coatings inspection. We can leverage this experience to better serve VTrans. Currently, we provide similar services on five statewide on-call agreements: Massachusetts Department of Transportation (MassDOT), South Carolina Department of Transportation (SCDOT), North Carolina Department of Transportation (NCDOT), West Virginia Department of Transportation – Division of Highways (WVDOT-DOH), and Maryland State Highway Administration (MSHA). We also provide similar services on individual projects for Florida Department of Transportation (FDOT), Virginia Department of Transportation (VDOT), Pennsylvania Department of Transportation (PennDOT), Connecticut Department of Transportation (ConnDOT), Maryland Transportation Authority (MDTA), and other transportation agencies throughout the eastern US.

We have a reputation for our expertise in providing on-call, lead-based paint abatement and paint inspection services on bridges. Our inspectors are among the most qualified and experienced in their fields and are trained by the NACE and other nationally recognized organizations, as well as SSPC.

Our full-service coatings/corrosion engineering group, along with our environmental scientists, can offer your project broad-based expertise for bridge painting projects involving lead-based paint removal. Transportation agencies throughout the eastern US call on our unique services and reputation as an industry leader for some of the most difficult lead removal and bridge painting projects. Currently, we are providing these services as part of the \$255 million Longfellow Bridge rehabilitation project, located in downtown Boston, Massachusetts. With the environmental sensitivity of this project spanning the Charles River and close proximity of local businesses, including restaurants, we are providing critical surveillance and testing during the removal of lead-based paint from the structure. Our environmental and bridge coatings experts are making sure Massachusetts EEA, DEP, and federal EPA regulations are being complied with for this high-profile project.

Understanding of the Work Required

Through our involvement with over 45 municipal projects through the VTrans MAS process, Stantec team members understand the goals for these contracts. These goals include providing construction management services related to construction activities, including but not limited to project management, construction administration, resident engineering, construction oversight, materials sampling and testing, public outreach, quality assurance services for design-build projects, and specialty services related to construction projects. Past experience has also proven that having knowledge of the local area and established local relationships are a great benefit. Having worked in Vermont for over 60 years, the Stantec team is excited to have the opportunity to bring our extensive local municipal project construction experience to the table to VTrans and the municipalities of Vermont.

The construction of municipal projects often includes curb extensions, sidewalk, ADA accessible ramps, drainage work, rain garden, paving, lighting and landscaping. Often these projects are in residential neighborhoods where the existing sidewalks are heavily used. With projects adjacent to homes, parks and playgrounds, special attention to the safety of the residents is paramount. Therefore, traffic control and the safe passage of vehicles and pedestrians through the work zones is very important. Staff members are well versed in the Manual on Uniform Traffic Control Devices (MUTCD) and will ensure that the contractor follows this guidance.

A key aspect of urban construction is the constructed sidewalks and pedestrian facilities needed to meet the United States Access Board's Public Rights-of-Way Accessibility Guidelines (PROWAG). These guidelines are to ensure that access for persons with disabilities is provided wherever a pedestrian way is newly built or altered, and that the same degree of convenience, connection, and safety afforded the public generally is available to pedestrians with disabilities. Having been involved with reconstructed sidewalks and ramps on more than 40 projects, team members are keenly aware of the requirements and

potential solutions. Our proposed team's experience includes the construction of literally hundreds of sidewalk ramp reconstructions and helped develop solutions to meet the PROWAG. Although the contractor is ultimately responsible, team members are prepared to work with the contractor and designer, when needed, to point out anticipated issues early on and discuss solutions.

One major aspect of municipal construction projects is working closely with adjoining property owners. There are often abutting properties along the various locations in the project and it is paramount that the Contractor adhere to the restrictions surrounding access and impact to those properties. Stantec has had great success with the coordination and communication with property owners on previous projects. For example, on a recent urban project, the municipality, Contractor and Stantec had a public meeting, inviting property owners for a brief overview of the project. The scope and approximate schedule were discussed, questions answered, and property owners were given an opportunity to leave their email addresses in order to receive weekly updates from Stantec outlining the upcoming work, etc. The result was minimal calls or complaints to the Municipality, and overall, a positive relationship between those on the project and the property owners. Although this exact approach may not be necessary on all projects, if desired by the Municipality, Stantec is prepared to implement an approach for public outreach that best fits the project.

Another major aspect when reconstructing pedestrian facilities is the ability to control pedestrians and others who try to use the facility when it is closed. Stantec understands the importance of maintaining positive public relations while ensuring the safety of the public as well as those working on the project. All questions or comments from the public will be addressed immediately and when that is not possible, they will be discussed with the Municipal Project Management.

The prevention of erosion and the control of sediment is an important part of every project to ensure that it does not enter the Municipality's stormwater system or adjacent waterways. There are typically items and details in the design plans outlining the requirements for the contractor to follow. Stantec is very experienced in the oversight of this work and has a vast knowledge of the permit requirements for various types of projects. Even on low-risk projects, the contractor is required to follow EPSC management techniques detailed in the VT Trans Low Risk Handbook and the Vermont Standards & Specifications for Erosion Prevention & Sediment Control. The implementation of measures will be important to monitor on a regular basis and ensure that the contractor follows all requirements.

Often urban projects require tree protection and root pruning. This requires the contractor to have an arborist on the project, or to work with the municipality's arborist if they have one, to oversee the root pruning to ensure the protection of the trees. Stantec often assists with the coordination of these efforts. Most municipalities have numerous underground existing



utilities. Stantec understands the importance of making sure the contractor contacts Dig Safe, as well as the local Public Works, Water and Wastewater Departments, and any private utilities to ensure that the utilities are well marked prior to construction starting.

Our team is prepared to provide a quality project by addressing these and other items as they come up throughout construction. Site safety is paramount and all Stantec employees are aware of potential issues associated with their jobs and are provided with the necessary training, equipment and tools to carry out those roles.

From our experience with the VTrans Construction Services Program, we also understand the value of having a team with a wide range of capabilities, experience and resources. With over 26,000 staff company-wide, Stantec has virtually every service needed by our transportation clients covered. For the construction oversight assignments, this includes providing various levels of staff including chief inspectors, office engineers, and inspectors. This also includes providing assistance to the Finals Unit, quality assurance services for design-build contracts, administrative services to the Independent Assurance Unit at the materials certifications and testing facility, and media/public outreach expertise, including website maintenance and support. Requests may come for assistance with 'specialty services' related to construction and/or training activities, for example in the fields of schedule analysis and/or claims analysis, or providing construction quality assurance services for design-build projects, including a Quality Assurance Manager and/or other team members. Our team can also provide trenchless technology support, paint/coating inspection services, water/wastewater oversight, aviation and rail project support, landscape support, and others.

Providing a wide variety of qualified personnel is key to assisting municipalities in covering their broad need for inspection services with appropriately trained staff. As shown in our organization chart on page 13, our team has this variety and can cover nearly all aspects of construction oversight services. We offer highly trained staff, including professional engineers, as well as others certified by the New England Transportation Technician Certification Program (NETTCP), and the American Concrete Institute (ACI). We have inspectors trained to oversee railroad crossings and signal construction, airport construction services, traffic signals, river restoration, and more.

Over the years, Stantec has always received high praise from Resident Engineers for our willingness to step up and consistently perform at the level of expectations outlined on any given project. Our ability to assist the municipality with the process required to successfully produce a quality project includes a thorough understanding and knowledge of the VTrans MAS Local Projects Guidebook for Locally Managed Projects, the VTrans Construction Manual, Standard Specifications for Construction, General Special Provisions, Supplemental Specifications, project Special Provisions, Materials Sampling Manual, the Manual

on Uniform Traffic Control Devices (MUTCD), as well as VOSHA's 29 CFR 1926/1910 Safety and Health Standards for Construction. Having this understanding and knowledge allows our team members to perform with confidence and fully compliment the Resident Engineers on their projects. Stantec also ensures that all staff are adequately equipped to perform their duties safely and accurately. This is what we do, and we do it well.

Project Examples



↑ **MONTPELIER SHARED-USE PATH, MONTPELIER, VERMONT**

Stantec provided resident engineer, construction inspection, environmental monitoring and project management services for this \$5 million project. Responsibilities included the observation of construction for compliance with plans and specifications, distribution and tracking of shop drawing submittals and requests for information, development and independent cost analysis of change orders, measurement and independent verification of all contractor submitted quantities, approval of all contractor payment requests and the documentation and recording of erosion control protection and permit compliance. Stantec tracked and recorded the project quantities, costs, change orders and payment requisitions using the APPIA project management program for infrastructure construction projects.

The project consisted of the construction of a 1.93-mile long multi-use path. Work performed under this contract included the relocation of approximately 900 feet of active railroad line, a new 10'x10'x30' concrete box culvert, relocation of a City-owned water main, relocation of a privately owned sewer line, a new sewage pump station, construction of eight precast-block retaining walls, drainage, subbase, paving, landscaping, fencing, signage and pavement markings.

CONTACT

Corey Line
City of Montpelier, VT
P: (802) 262-6272
E: cline@montpelier-vt.org



↑ **FAIRFIELD JUAIRE ROAD (TH-41), CULVERT REPLACEMENT, FAIRFIELD, VERMONT**

Stantec provided on-site construction oversight, project management, construction administration and materials testing services for this \$675,000 culvert replacement project. The FEMA funded project included the construction and removal of a temporary bypass road, the removal of an existing steel culvert, construction of a new precast slab bridge, grading and other related items.

CONTACT

Cathy Ainsworth
Town of Fairfield
P: (802) 827-3261, ext 101
E: townadmin@fairfieldvermont.us

SHOREHAM BUTTOLPH ROAD, BRIDGE 5 OVER BASCOM BROOK, SHOREHAM, VERMONT

Stantec provided on-site construction oversight, project management, construction administration and materials testing services for this \$270,000 culvert replacement project. The project included the removal of an existing steel culvert, construction of a new precast box culvert with footings, headwalls, and wingwalls, grading and other related items.

CONTACT

Kathleen Brisson
Town of Shoreham
P: (802) 897-5841
E: shorehamtreasurer@shoreham.net

BURLINGTON TAP TA15(1), BURLINGTON, VERMONT

Stantec provided resident engineer, construction inspection and project management services for this pedestrian safety improvements project. Responsibilities included the observation of construction for compliance with plans and specifications, distribution and tracking of shop drawing submittals and requests for information, development and independent cost analysis of change orders, measurement and independent verification of all contractor submitted quantities and approval of all contractor payment requests.

Stantec tracked and recorded the project quantities, costs, change orders and payment requisitions using the APPIA project management program for infrastructure construction projects.

The project consisted of the construction of five new locations for pedestrians to safely cross a major street in the City of Burlington, Vermont. This included new sidewalk and curb replacements, new traffic calming curbed bulb outs and new Public Right-of-Way Accessibility Guideline (PROWAG) accessible ramps. The locations chosen are predominantly in residential neighborhoods where the sidewalks are heavily used. This meant that the construction was adjacent to homes, parks and playgrounds and therefore required special attention to the safety of the pedestrians/residents. Traffic control was closely monitored to help ensure the safe passage of vehicles and pedestrians through the work zones.

CONTACT

Olivia Darisse
City of Burlington
P: (802) 865-5830
E: odarisse@burlingtonvt.gov

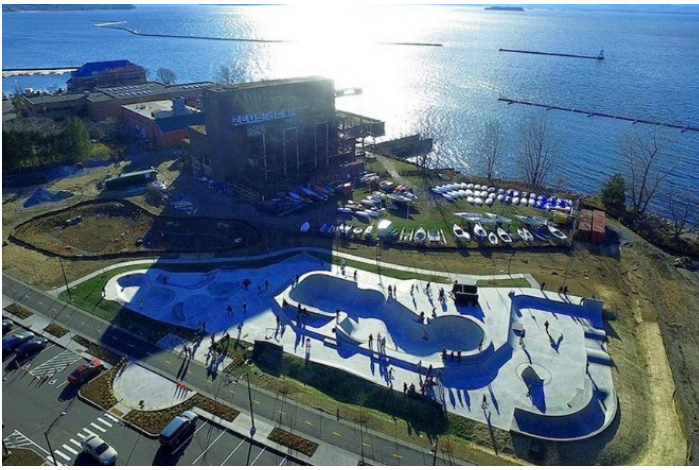
BURLINGTON STP BP13(6), BURLINGTON, VERMONT

Stantec provided resident engineer, construction inspection and project management services for this pedestrian safety improvements project. Responsibilities included the observation of construction for compliance with plans and specifications, distribution and tracking of shop drawing submittals and requests for information, development and independent cost analysis of change orders, measurement and independent verification of all contractor submitted quantities and approval of all contractor payment requests, including certified payroll compliance. Stantec tracked and recorded the project quantities, costs, change orders and payment requisitions using the APPIA project management program for infrastructure construction projects.

The project consisted of the construction of three new raised intersections at locations where many children and other pedestrians frequently cross busy city streets to access a local school, a popular park and other destinations. These crossings needed to be compliant with the Public Right-of-Way Accessibility Guideline (PROWAG), a key component when providing safe pedestrian access. Along with the raised intersections, the project included the revision of the existing drainage features, new sidewalk, new curb, revised signing and pavement markings, traffic control and the efforts needed for the project to stay in compliance with local and state permits.

CONTACT

Olivia Darisse
City of Burlington
P: (802) 865-5830
E: odarisse@burlingtonvt.gov



↑ WATERFRONT ACCESS NORTH PHASE II, BURLINGTON, VERMONT

Stantec provided project management and construction inspection services for this \$5.1 Million project which was one of the City of Burlington’s highest profile projects. The project included extending Lake Street north along the west side of the Genesee & Wyoming Railroad, the construction of two gravel wetland stormwater treatment facilities, a world-class skate park and covered pavilion, realignment of the Burlington Bikeway multi-use path, new street lighting, tracking multiple levels of contaminated soil, underground utilities, landscaping and other incidental items.

Responsibilities included overseeing staffing and resources, tracking the payment of items through 23 different funding sources, attending biweekly project team meetings, invoicing and coordination between the city, state, FHWA, the design team and Stantec.

CONTACT

David Allerton
Formerly of City of Burlington
P: (802) 893-6030
E: dallerton@miltonvt.gov

↑ WILLIAMSTOWN STP WALK (18), WILLIAMSTOWN, VERMONT

We provided construction administration and inspection services for the VT Route 14 sidewalk and pedestrian bridge construction in Williamstown, Vermont. Construction of this project included 1,600 LF of Bituminous Concrete Pavement sidewalk, two pedestrian bridges, and lighting.

“John and Erik were an excellent project manager-resident inspection team. They were superb in all areas. We felt they really looked out for the town’s best interest.” ~ Garret Earls

CONTACT

Garret Earls
Town of Williamstown
P: (802) 433-6671
E: twnmgr@williamstownvt.org

BRIDGE STREET RAILROAD BRIDGE OVER BRIDGE STREET (TH#2) HARTFORD, VERMONT

Stantec provided construction oversight services associated with the replacement of Bridge Street Railroad Bridge that carries New England Central Railroad over Bridge Street (TH #2). The project involved multiple facets of construction including traffic control, utility work, removal and disposal of contaminated soil, new drainage and drainage modifications, roadway and sidewalk construction, but the major challenge was the short work period for replacement of the railroad bridge. The new bridge was founded on a micro-pile foundation that was drilled from the top of the rail bed. Piles were later cutoff below grade and a pile cap was placed. The contractor was allowed a maximum of 48 hour track closure to remove the existing superstructure and replace it with a new precast beam bridge.

CONTACT

Richard Menge, PE
Town of Hartford
P: (802) 295-3622
E: rmenge@hartford-vt.org



↑ **GAZO AVENUE OUTFALL REPAIR, BURLINGTON, VERMONT**

Stantec provided on-site construction inspection, project management, and construction administration services for this project which included installation of 350 feet of new storm drainpipe, 4 new stormwater structures, a scour pool, as well as slope stabilization and over 4,000 CY of fill. Services also included close coordination with the adjoining property owners as this project was literally in their back yards.

CONTACT

Martin Lee
Burlington Department of Public Works
P: (802) 497-7021
E: mlee@miltonvt.gov

BURLINGTON LEDDY PARK SOFTBALL FIELD RECONSTRUCTION, BURLINGTON, VERMONT

We provided resident construction phase services for this \$163,000 project for reconstruction of the existing softball field located at Leddy Park including stripping and stock piling the existing athletic field topsoil; importation of approximately 3,500 cubic yards of washed screened sand; spreading, compacting, and re-grading the stockpiled topsoil to new finish grade contours; installation of new subsurface 6" PVC perforated underdrain piping; performing layout for the new softball field geometrics including fencing, bases, pitching mound, and coaching boxes; installation of new 4' and 6' high chain link fencing, access gates, and 16' high backstop; installation of new temporary and permanent erosion prevention and sediment control measures; site restoration including placement of topsoil, infield mix and conditioner, and establishment of growth to athletic field standards.

CONTACT

John Adams-Kollitz
Burlington Parks, Recreation & Waterfront
P: (802) 540-0363
E: jadamskollitz@burlingtonvt.gov

Key Personnel

Stantec offers the diversity of a large North American firm which is locally rooted to better serve our New England transportation clients with offices throughout New England and the Tri-State area. Our team offers truly local delivery with global expertise.

The Stantec team is prepared to dedicate the project team illustrated in the organization chart on page 13 for this contract. The Stantec team has the expertise to execute all aspects of this construction contract and has worked together in that capacity on numerous transportation projects throughout New England, including numerous past MAS assignments with many different Municipalities over the past 15 years, as well as under previous VTrans Construction Inspection contracts over the past 35 years. This ability offers our clients a firm that has demonstrated consistent, reliable construction services offered before, during and after the construction phase if needed. It also allows us to respond in a more timely manner to any needs during construction administration.

Assignment Managers

JOHN LITTLE, CPESC | ASSIGNMENT MANAGER:

John is based in our South Burlington office, and will be the primary contact for services under this program. As a leader in our Transportation Division's Construction Management group, John will have overall responsibility for Stantec services including allocation of staff and resources, client satisfaction, and quality control. In addition, John will assist with construction inspection and construction management projects and lead the construction staff. He has over 42 years of engineering and construction management experience, all with Stantec. His recent experience includes Program Manager/Construction Administrator for all construction services, and Project Manager for the Montpelier Shared-Use Path and several municipal projects for the City of Burlington.

GREG EDWARDS, PE | ASSIGNMENT MANAGER:

Greg is based in our South Burlington office, and will be responsible for contractual matters and assist John with staffing, resources, and quality control. He has over 30 years of engineering experience, with a focus on highway and traffic engineering. Over these years, he has been involved with hundreds of transportation projects with over 50 in Vermont alone. His experience includes the planning, scoping, permitting, design, and construction of a wide range of transportation projects from the Bennington Bypass new construction to the reconstruction of Church and St. Paul Street in Burlington. Through this experience, he is very familiar with the VTrans project development process and specification and methods to expedite the process while meeting VTrans procedures, standards and specifications.



Burlington Bike Path Slope Repair, Burlington, Vermont

DAVE YOULEN, PE | ASSIGNMENT MANAGER:

Dave has worked as a transportation engineer for the last 18 years on numerous roadway, bridge, culvert, railroad and intersection projects, on both the construction inspection and design side, funded through the VTrans and MAS. He has a thorough knowledge of VTrans Standard Construction Specifications and developing traffic management and traffic control plans, as well as Special Provisions. He has utilized his years of experience in construction to perform plan and constructability reviews. He also has experience providing services in the Quality Assurance Unit at VTrans.

Additional Key Construction Inspection Staff

BERNIE GAGNON, PE | CONSTRUCTION

INSPECTION: Bernie is an experienced engineer with over 33 years of engineering experience in project design, preparation and review of contract documents, bid solicitation, contract administration experience in the areas of contaminated site cleanup, road design, water supply, wastewater treatment, stormwater, and site design for residential and commercial developments. His expertise lies in contracting and in the solicitation, evaluation, and selection of design and construction contractors. He has experience in construction phase services including resident engineering, shop drawing review, response to requests for information, and on-site construction inspection and documentation on Federal, State, and Local projects. Bernie also provided Section 406 Hazard Mitigation support to FEMA to reduce or eliminate long-term risk to people and property from natural hazards and their effects. In this role, he evaluated proposed mitigation measures for cost-effectiveness, technical feasibility, and compliance with Environmental laws, regulations, and Executive Orders. In addition, he ensured that the mitigation proposed did not negatively impact the facility's operation or surrounding areas or create susceptibility to damage from another hazard. Work involved conducting site visits to identify damage and technically feasible mitigation alternatives, cost estimating, and writing Hazard Mitigation Plans.

DOUG CAMPBELL, PE | CONSTRUCTION

INSPECTION: Douglas has over 30 years of design experience in construction phase engineering services, resident engineering overseeing construction, general civil engineering including civil/site design, process design, drainage systems and stormwater design, stormwater systems management, roadway design, and design of water distribution and sewer collection systems, and computer modeling of watershed and river characteristics.

DERON BARNES | CONSTRUCTION INSPECTION:

Deron has over 29 years of experience as a technician with emphasis on highway design, computer-aided drafting, assisting in the surveying, design and construction inspection of highways, utilities and site work. His duties include geometric and drainage design, signing and pavement marking designs, use of computer aided drafting software including AutoCADD and MicroStation for the development of plans, and use of computer software for the takeoff of quantity and development of construction estimates. Construction assignments duties include inspection of the installation of storm drainage, water systems, sewer systems and the new construction and reconstruction of roadways. His responsibilities have included resident inspection, daily reporting, shop drawing processing and review, change orders, payment requests, project closeouts, claims resolutions and coordination between owner, contractor and designer. Deron has also provided quality assurance/quality control services to the VTrans Quality Assurance Unit.

CAELA PETERSON | LEAD ENGINEER:

Caela has over 6 years of experience working on engineering projects in Vermont and Maine, including over three years of roadway reconstruction inspection. She is a Certified Hot Mix Asphalt Paving Inspector, from the NorthEast Transportation Training and Certification Program. Her construction inspection experience includes construction oversight of paving crews, sidewalk and safety improvement projects. Caela has also served as lead designer on multiple state highway resurfacing and reconstruction projects. These have included upgrading all crosswalks to meet ADA and PROWAG requirements. She has worked with diverse multidisciplinary teams on projects ranging from field inventory data collection and management, to developing plans, cost estimates, and special provision documents. Her responsibilities have included plan design and review, quantity calculation and review, financial estimates and review, and assembling special provision documents.

TODD DUGUAY, PE | CONSTRUCTION

INSPECTION: Todd has over 20 years in transportation design including roadways and interchanges, stormwater management and drainage systems. As a Senior Transportation Engineer, he is responsible for the preparation of preliminary, final and contract design plans and documents for various transportation projects. This work includes field reviews, design layout, drainage design, quantity computations, estimating and specifications. Todd has extensive experience and formal training with CADD software including MicroStation, InRoads, and Civil 3D. His proficiency with software and his knowledge of various clients' standards make him a great asset to any team. He has also worked as a construction inspector on both highway and aviation projects.

JUSTIN LAPERLE, EIT | CONSTRUCTION

INSPECTION: Justin has 6 years of experience as a civil engineer and construction inspector. He has assisted in the development of studies analyzing alternatives for truck routes in Vermont, design and CADD support for an intersection realignment project, and construction inspection.

RACHEL GALUS | CONSTRUCTION INSPECTION:

Rachel has 2 years of experience as civil designer and construction inspector. Working primarily with the transportation industry, Rachel focuses on stormwater design and engineering, environmental site assessments, and GIS mapping. Rachel is proficient in ArcGIS Pro and MicroStation.



F.

RESUMES

Berlin Bridge #10 Replacement Chase Road over Chase Brook, Berlin, Vermont



**F.**

RESUMES

Key Staff Resumes

On the following pages we've included resumes for our key staff and our subconsultants key staff. Our local team of transportation planning, design, and engineering professionals has decades of first-hand experience in Vermont with design, project management and construction inspection services. Our South Burlington office staff will lead these services and when needed, support from other regional offices can be readily solicited. These regional offices have over 2,000 staff members, many with transportation engineering and traffic management expertise, and environmental specialists who can handle virtually any assignment. The result of this connected team's resources, knowledge, and experience is an unmatched commitment to meet your project's needs.



John Little, CPESC

Assignment Manager

YEARS WITH STANTEC

42

EDUCATION

Associate in Applied Science, Vermont Technical College, Randolph, Vermont

REGISTRATIONS

Licensed Class B Designer (formerly known as a Certified Site Technician) #222, State of Vermont

Certified Professional in Erosion and Sediment Control #2642, CPESC, Inc.

MEMBERSHIPS

HAZWOPER 24-hour Certification, Occupational Safety & Health Administration

Member, International Erosion Control Association

John has over 42 years of transportation design, construction services, and survey experience. As the Program Manager for the resurfacing program, he is responsible for the day-to-day management, allocation of staff and resources, subconsultant coordination, client satisfaction, and quality assurance.

As a Project Manager on design projects, he is responsible for overseeing the preliminary and final designs as well as the preparation of final contract plans, including design layout, intersection design, horizontal and vertical alignment computations, drainage design and layout, as well as quantity computation estimating and maintaining a smooth operation between design and CADD personnel.

As the program manager for the Construction Division, he is responsible for contract administration, allocation of staff and resources, subconsultant coordination, client satisfaction, and quality assurance.

RELEVANT EXPERIENCE

Construction Inspection Program | Statewide, Vermont

Program Manager of a multi-year construction inspection program. Searched out and interviewed potential inspectors, maintained contact with VTrans Construction Division to secure positions for these employees, followed up to ensure client satisfaction, and performed required administrative tasks to ensure successful project completion.

Montpelier-Berlin Shared Use Path | Montpelier, Vermont

Project Manager responsible for observation of construction for compliance with plans and specifications; distribution and tracking of shop drawing submittals and requests for information; change orders; measurement and independent verification of all contractor submitted quantities; and approval of all contractor payment requests. The project is reported and recorded with the APPIA project management program for infrastructure construction projects. The Montpelier-Berlin Shared Use Path Project is a VTrans-funded project consisting of constructing a 1.93-mile-long multi-use path. Work to be performed under this contract includes the relocation of approximately 900 feet of active rail line; construction of a new concrete box culvert; relocation of a City-owned watermain; relocation of a privately owned sewer line and construction of a new sewage lift station; construction of new unit block retaining walls; grading; drainage; subbase; paving; landscaping; and signage.

Waterfront Access North Phase II | Burlington, Vermont

Project Manager for this \$5.1 M project which consisted of providing construction services for one of the City of Burlington's highest-profile projects. The project included extending Lake Street north along the west side of the Genesee & Wyoming Railroad, the construction of two Gravel Wetland Stormwater Treatment Facilities, a concrete Skate Park and covered Pavilion, Realignment of the Burlington Bikeway Multi-use Path, new Street Lighting, tracking multiple levels of Contaminated Soil, Underground Utilities, Landscaping, and other incidental items. Responsibilities included overseeing staffing and resources, tracking the payment of items through 23 different funding sources, attending biweekly project team meetings, invoicing, and coordination between the City, State, FHWA, the design team, and Stantec.

Burlington Champlain Elementary Pedestrian Improvements | Burlington, Vermont

Project Manager and resident engineer for improvements providing safe pedestrian access to multiple public spaces, including Champlain Elementary School and Callahan Park. Responsibilities included overseeing staffing and resources, attending weekly project team meetings, monitoring erosion, invoicing, and coordinating between the City and Stantec. Project features include raised intersections, a new sidewalk, ADA-accessible ramps, new drainage work, and a rain garden.



Greg Edwards,

PE, ENV SP

Assignment Manager

Greg has over 36 years of engineering experience including the planning, design, permitting, quality control, construction and rehabilitation of transportation facilities. Mr. Edwards is an effective project manager and excellent facilitator, promoting the expediency of successful projects. He has managed multi-disciplined teams for projects up to \$60 million construction cost.

Over the course of his career, Mr. Edwards has managed hundreds of transportation planning, design and construction projects ranging from resurfacing, roadway, bridge, and roundabout designs to traffic studies and alternatives analyses. He and his staff have also designed a number of unique projects including a series of "park-and-ride" facilities, several recreation paths, a river restoration, and town and city Main Street reconstructions. His technical expertise includes transportation planning, public facilitation, traffic engineering, alignment studies, highway design, drainage design, and cost estimating.

RELEVANT EXPERIENCE

CCRPC VT 15 Pedestrian and Bicycle Scoping Study | Essex, Vermont

Project Manager responsible for the scoping study of a 0.7-mile section of VT Route 15. This section of VT 15 has remained largely unimproved since its reconstruction in 1934 as the surrounding land and area has seen significant development. Some pedestrian and bicycle facilities have been constructed with this development but they remain unconnected in this section of VT 15. Short term and long term improvements to calm traffic and to better connect and accommodate pedestrian and bicycle movements will be considered. Services will include traffic and safety analysis, alternatives development and evaluation, facilitation and coordination of public input process and project advisory committee.

CCRPC VT 15 Susie Wilson Road to West Street Extension Scoping Study | Essex Junction, Vermont

Project Manager responsible for the scoping study of a 0.8-mile section of VT Route 15. Reconstructed in 1964, as a four-lane median divided highway, it lacks bicycle facilities and forms the western gateway to the Village of Essex Junction. Short-term and long-term improvements to calm traffic and to better accommodate pedestrian and bicycle movements will be considered. Services will include traffic and safety analysis, alternatives development and evaluation, facilitation and coordination of public input process and project advisory committee.

Side Streets to Church Street Improvements | Burlington, Vermont

Project Manager responsible for preparing a feasibility study to enhance side streets along the Church Street Marketplace in Burlington, Vermont. Services included facilitating a public process, evaluating alternatives and developing a preferred alternative. The result included up to \$6 million in improvements with a focus on pedestrians, bicycles, and economic development. Improvements consisted of sidewalk expansions / replacements, intersection bulb-outs, traffic signal upgrades, street lighting, and gateway treatments using recycled materials.

CCRPC Riverside Avenue/Colchester Avenue Scoping Study | Burlington, Vermont

Project Manager responsible for the scoping study for the redesign of a "High Crash Location" intersection in Burlington, Vermont. Improvements were proposed to calm traffic and to better accommodate pedestrian and bicycle movements. Short term and long term improvements were provided and included wider sidewalks, bike lanes, pedestrian signal phasing and intersection reconfiguration. Services included traffic and safety analysis, alternatives development and evaluation, facilitation and coordination of public input process and project advisory committee.



Dave Youlen, PE

Lead Engineer

Dave is a professional engineer with over 23 years of experience with an emphasis on traffic management, quality control, quality assurance, construction administration, and inspection. His technical background includes highway and bridge design, utility and signal design, traffic management plans, and construction. With his construction experience, he plays an essential role in the quality of constructability reviews of projects. Prior to joining Stantec, Dave worked for the State of New Hampshire Department of Transportation as a Civil Engineer in the Bureau of Construction. His responsibilities have included resident inspection; daily reporting; shop drawing processing and review; change orders; payment requests; project closeouts; claims resolutions; and coordination between owner, contractor, and designer. Dave has completed over ten construction inspection assignments for VTrans bridge, roadway, and paving projects under a retainer contract. He has several certifications, including NETTCP (Paving Inspector and Driven Pile Foundation) and ACI.

RELEVANT EXPERIENCE

Burlington Great Streets | Burlington, Vermont

Project Engineer responsible for the roadway reconstruction design of two streets, Bank and Cherry, in downtown Burlington. The redesign prioritized pedestrian safety and movement and maintained the on-street parking needed for the small businesses. The design incorporated new underground electric, communications, water and sewer utilities, stormwater system upgrades, raised intersections, bicycle racks, parklets, seating areas outside popular business and restaurants, green stormwater infrastructure, and public art.

US Route 2, Main Street Project | Waterbury, Vermont

Transportation Engineer responsible for Constructability and Traffic Management for the development of final and contract plans and documents. Responsibilities include constructability plan review, erosion prevention and sediment control design, quality control plan reviews and quantity calculations and review for this \$20+ million construction of US Route 2 through Downtown Waterbury. This 1 mile long, 2-lane roadway included full depth of urban street reconstruction and street scape work, new water and sewer mains and services, new stormwater systems, and the undergrounding of utilities. Services included design for highway, stormwater treatment, traffic signals, right-of-way, utilities and lighting.

US 2 / VT 100 Roundabout | Waterbury, Vermont

Project Engineer for replacement of a stop-controlled T-intersection with a roundabout that will serve as the gateway to downtown Waterbury, Vermont. Responsibilities include assisting with development of project plans and specifications. Also investigated various traffic control options, constructability review, and quantity calculations. New drive access and parking layouts for a gas station, post office, and restaurant were designed to ensure that a positive impact to these neighboring businesses will occur as a result of the project.

University Place | Burlington, Vermont

Project Engineer responsible for the roadway reconstruction design of University Place, on the campus of the University of Vermont in Burlington. The redesign prioritized pedestrian safety and movement through narrowing the street to shorten pedestrian crossing distances and reducing the number of roadway crossing locations. The design incorporated narrowing of the street and changing from a two-way street to a one-way street configuration, new wider sidewalks, new water and sewer utilities, stormwater system upgrades, raised pedestrian crossing plaza.

YEARS WITH STANTEC

18

EDUCATION

Bachelor of Science, Civil Engineering, Clarkson University, Potsdam, New York

REGISTRATIONS

Professional Engineer #8831, State of Vermont

MEMBERSHIPS

ACEC Representative , VTrans Work Zone Safety and Mobility Steering Committee, American Council of Engineering Companies (Vermont)



Bernie Gagnon,

PE

Construction Inspection

YEARS WITH STANTEC

8

EDUCATION

Masters of Science,
Engineering Management,
University of Alaska,
Anchorage, Alaska, 1993

Masters of Science .
Environmental Quality
Engineering, University of
Alaska, Anchorage, Alaska,
1984

Bachelor of Science, Civil
Engineering, University of
Vermont, Burlington,
Vermont, 1979

REGISTRATIONS

Professional Engineer, State
of Vermont

MEMBERSHIPS

Professional Engineer, State
of Vermont

Bernie is an experienced engineer with over 38 years of engineering experience in project design, preparation and review of contract documents, bid solicitation, contract administration experience in the areas of contaminated site cleanup, road design, water supply, wastewater treatment, stormwater, and site design for residential and commercial developments. His expertise in contracting and in the solicitation, evaluation, and selection of design and construction contractors. He has experience in construction phase services including resident engineering, shop drawing review, response to requests for information, and on site construction inspection and documentation on Federal, State, and Local projects.

RELEVANT EXPERIENCE

Montpelier-Berlin Shared Use Path | Montpelier, Vermont

Resident Engineer responsible for observation of construction for compliance with plans and specifications; distribution and tracking of shop drawing submittals and requests for information; change orders; measurement and independent verification of all contractor submitted quantities; and approval of all contractor payment requests. The project is reported and recorded with the APPIA project management program for infrastructure construction projects. The Montpelier-Berlin Shared Use Path Project is a VTrans funded project consisting of construction of a 1.93 mile long multi-use path. Work to be performed under this contract includes relocation of approximately 900 feet of active rail line; construction of a new concrete box culvert; relocation of a City owned watermain; relocation of a privately owned sewer line and construction of a new sewage lift station; construction of new unit block retaining walls; grading; drainage; subbase; paving; landscaping; and signage.

South Catherine Street Reconstruction | Plattsburgh, New York

On-site Resident Engineer for \$4.3 million dollar road reconstruction project in Plattsburgh, NY. Project involved the complete reconstruction of approximately one mile of two lane highway including abandonment of existing water main and construction of new water main; abandonment of existing sewer main and construction of new sewer main; construction of new stormwater treatment infrastructure; new concrete curb and sidewalk; paving; and site landscaping. Responsible for review and approval of all shop drawing submittals; change orders; and approval of all contractor payment requests. Supervised three construction inspectors and approved daily reports and all project quantities. All work was reported and recorded with the APPIA project management program for infrastructure construction projects.

Burlington International Airport, Air Carrier Apron- Glycol Treatment System Improvements | South Burlington, Vermont

Resident Engineer responsible for construction phase services for this \$2 million project for construction of a new aircraft deicing fluid (ADF) treatment system. Project included construction of a new concrete diversion structure, 36" RCP drain piping, new manholes and catch basins, tri-plex pump station, underground electrical vault, 138,000 gallon underground concrete storage tank, new infiltration field, site restoration including topsoil and hydroseeding. Responsible for review and approval of all change orders and approval of all contractor payment requests. All work was reported and recorded with the APPIA project management program for infrastructure construction projects.

FEMA Stafford Act Section 406 Hazard Mitigation Support | St. Thomas, US Virgin Islands

Bernie provided Section 406 Hazard Mitigation support to FEMA to reduce or eliminate long-term risk to people and property from natural hazards and their effects. In this role, he evaluated proposed mitigation measures for cost-effectiveness, technical feasibility, and compliance with Environmental laws, regulations, and Executive Orders. In addition, he ensured that the mitigation proposed did not negatively impact the facility's operation or surrounding areas, or create susceptibility to damage from another hazard. Work involved conducting site visits to identify damage and technically feasible mitigation alternatives, cost estimating, and writing Hazard Mitigation Plans.



Deron Barnes,

Construction Inspection

YEARS WITH STANTEC

29

EDUCATION

Associate in Applied Science, Vermont Technical College, Randolph Center, Vermont

Deron has 29 years of experience as a technician with emphasis on highway design, computer-aided drafting, assisting in the surveying, design and construction inspection of highways, utilities and site work. His duties include geometric and drainage design, signing and pavement marking designs, use of computer aided drafting software including AutoCADD and MicroStation for the development of plans, and use of computer software for the takeoff of quantity and development of construction estimates.

Construction assignments duties include inspection of the installation of storm drainage, water systems, sewer systems and new construction and reconstruction of roadways. His responsibilities have included resident inspection, daily reporting, shop drawing processing and review, change orders, payment requests, project closeouts, claims resolutions and coordination between owner, contractor and designer.

RELEVANT EXPERIENCE

South Hero Island Line Trail Improvements | South Hero, Vermont

Construction Inspector for this \$989,000 rail trail improvement project. This project included the widening of this shared use path, construction of emergency vehicle turnaround accommodations, and the replacement of existing ferry docks with new docks, gangways and wave attenuators. Responsibilities included daily observation of construction activities, documentation of labor and equipment, verification of quantities, photo documentation of all activities, and attending project team meetings.

BTV Taxiway G Phase 1B | Burlington, Vermont

Provided construction inspection services for Phase 1A & 1B of the relocation of Taxiway "G", a full length taxiway parallel to the primary runway. This included covering several construction crews on any given day, observing, reporting, measuring and reconciling quantities, tracking work done on a time & material basis, communicating issues to resident engineers, and documenting daily project events.

VTrans Quality Assurance Unit Services | Montpelier, Vermont

Performed plan and constructability review for plans at various levels of design. Also, helped with statistical analysis between pre-final estimates and the contract plans to find the number of pay items and their impact on the value of contracts.

Various VTrans 3R/STP Paving Projects | Various Locations, Vermont

Design Technician on the fast track design of over 20 VTrans 3R/STP highway projects totaling over 90 miles. Projects consisted of upgrading facilities to current FHWA and VTrans Standards; designing signs and pavement markings meeting the MUTCD; designing for ADA compliance; upgrading signal installations; resolving high accident locations.



Caela Peterson

Lead Engineer

YEARS WITH STANTEC

6

EDUCATION

Bachelor of Science, Civil Engineering, Norwich University, Northfield, Vermont

Since joining Stantec in June 2016, Caela has provided design and CADD support on a variety of transportation design projects. Mrs. Peterson has assisted in the design process, including horizontal and vertical alignment, roadway modeling through InRoads and OpenRoads Designer, signal design and pavement markings, as well as bicycle and pedestrian facilities. She has experience with Microstation, InRoads, OpenRoads Designer, and HY8.

RELEVANT EXPERIENCE

Burlington Champlain Elementary Pedestrian Improvements | Burlington, Vermont

Construction inspector / resident engineer for improvements providing safe pedestrian access to multiple public spaces including Champlain Elementary School and Callahan Park. Other responsibilities include submittal reviews for pay requisitions and testing results. Project features include raised intersections, new sidewalk and ADA accessible ramps as well as new drainage work and a rain garden.

Fairfield Juare Road Culvert Replacement | Fairfield, Vermont

Construction Inspector for replacement of a CMP culvert with a bridge. Inspection responsibilities include observing excavation, concrete foundation and bridge abutment placement, precast bridge deck placement, paving, as well as roadway grading and other construction activities required for completion of the project.

Mansfield Avenue Shared Use Path And Traffic Calming | Burlington, Vermont

Project Engineer for the evaluation and design of a 10-foot-wide, 1,600-foot-long, asphalt shared use path along the east side of Mansfield Avenue in Burlington, VT. Stantec worked with City staff to develop and evaluate alternatives, complete a public outreach process and gain concurrence on a preferred alternative. Traffic calming features were evaluated such as raised crosswalks, raised intersections, and mini-roundabout, due to cost and impact these features were postponed to a future phase. We completed the alternative evaluation process in just 2 months, submitted conceptual plans 2 months later, and now are developing final plans with the goal to bid the project within just 8 months of starting it.

University Place | Burlington, Vermont

Project Engineer responsible for design of improvements to University Place, a multimodal street serving the needs of people travelling by foot, bicycle, transit, and motor vehicle.

Dorset Street Shared Use Path | South Burlington, Vermont

Project Engineer responsible for the design of a shared use path along Dorset Street in South Burlington, VT.

Moretown STP BP19(3) Sidewalk | Moretown, Vermont

Project Engineer responsible for the design of a 1,300-foot-long section of new concrete sidewalk to replace existing asphalt.

Williston Shared Use Path | Williston, Vermont

Project Engineer responsible for the design and layout of a new 10-foot-wide shared use path along VT Route 2A in Williston, VT.



Todd Duguay, PE

Lead Engineer

YEARS WITH STANTEC

16

EDUCATION

Bachelor of Science, Civil Engineering, University of Hartford, West Hartford, Connecticut

REGISTRATIONS

Professional Engineer
#59592, State of Vermont,
7/31/2012

MEMBERSHIPS

Member, Vermont Society of Engineers

Member, American Society of Civil Engineers

Since beginning his career in 2003, Todd has designed roadways and interchanges, stormwater management, and drainage systems. As a Senior Transportation Engineer, he is responsible for preparing conceptual, preliminary, final, and contract design plans and documents for various transportation projects. This work includes field reviews, design layout, drainage design, quantity computations, estimating, and specifications. Mr. Duguay has extensive experience and formal training with CADD software, including OpenRoads, MicroStation, InRoads, and Civil 3D. His proficiency with software and his knowledge of various client standards make him a great asset to any team. He has also worked as a construction inspector on highway and aviation projects.

RELEVANT EXPERIENCE

Waterbury Route 100 Watermain | Waterbury, Vermont

Senior Transportation Engineer responsible for 3D modeling of the waterline. Project included design of 1,800 linear feet of new waterline to be installed within close proximity of VT Route 100, in Waterbury. Potential alignments for the watermain were complicated by the broad existence of bedrock, a leachfield sewer system in the path, Class II wetlands through much of the corridor, and petroleum underground storage tanks in an area adjacent to the VT route 100 highway ROW.

VTrans Winooski Circulator Improvements | Winooski, Vermont

Project Engineer responsible for roadway, curbing and raised island layout and grading and design of the drainage improvements due to the roadway reconstruction. Stantec provided engineering and design services to VTrans to address safety concerns at Vermont's #1 ranked High Crash Location, the Winooski Circulator. Stantec evaluated the safety improvements identified by the Chittenden County Regional Planning Commission (CCRPC) and the City of Winooski. We analyzed additional improvements utilizing VISSIM, recommended design modifications, and developed final construction plans. The selected improvements included, improving visibility between pedestrians and drivers, reducing weaving within the Circulator, relocating signalized pedestrian crossings to a safer location with refuge islands, and improving bicycle facilities.

Manchester Roundabout | Manchester, Vermont

Project Engineer responsible for taking the project from the Preliminary Design through Construction of the project. Work included responding to client comments, revising the signing design to complying with the latest version of the MUTCD, revising the quantity computations to comply with the current version of the VTrans Construction Specifications. Completing Contract Plans and Construction documents. Assisted project manager during construction engineering services phase of the project with any roadway or drainage questions or issues.

Waterbury Roundabout | Waterbury, Vermont

Staff Engineer responsible for complete horizontal and vertical design of Routes 100 and 2, and a newly designed parking lot for the US Route 2 and VT Route 100 intersection. Other responsibilities included cross sectional design, drainage design, construction phasing, a complete quantity computation and estimate as well as building InRoads templates and roadway model for this intricate roundabout design. The proposed improvement will be a single lane roundabout. Services provided included preliminary and final design through contract plans and bid services. This project included an extensive public participation and training program on the education of roundabouts



Alan I. Brown

Construction Services Manager

Education:

A.A.S., Architectural and Building Engineering Technology, Vermont Technical College

Certifications:

ACI Field Technician Level 1

Precast / Prestressed Concrete Institute (PCI) Quality Technician, Grade III (Permanent)

ICC Reinforced Concrete Special Inspector, Soils Special Inspector, Fireproofing Special Inspector, Structural Steel and Bolting Special Inspector and Welding Special Inspector

ICC Master of Special Inspections

NETTCP Concrete Technician, HMA Plant Technician, HMA Paving Inspector and Soils and Aggregate Inspector

Certified Nuclear Densometer Operator

Ground Penetrating Radar Inspector

Hellier Magnetic Particle and Ultrasonic Inspector

American Welding Society (AWS)

Certified Welding Inspector

ASNT Level III, UT, PT and MT

DipStick Floor Flatness Operator

Safety Certifications:

OSHA 10-Hour Construction Safety & Health Certified

OSHA Hazardous Materials Certified

Troxler Radiation Safety Officer

Affiliations:

Board of Directors, International Code Council, Vermont Chapter

WHITE RIVER JCT. OFFICE

Alan Brown joined S. W. Cole Engineering, Inc. in 2013 as a construction services manager for the firm’s White River Junction office. Prior to working for S.W.COLE, Alan held the position of Vice President of New England Operations with Advance Testing Company, Inc. for four years and was also Vice President of New England Testing Company, Inc. for eight years.

Alan has more than 25 years of experience in field and laboratory inspection of construction materials, including soil, concrete, prestressed concrete, bituminous concrete, steel reinforcing, fireproofing, paint thickness gauging and non-destructive testing of metals. He is a Master of Special Inspections as prescribed by the International Code Council (ICC) and holds a number of desirable certifications and registrations from the American Concrete Institute (ACI), ICC, NorthEast Transportation Technician Certification Program (NETTCP) and other reputable organizations.

Alan’s responsibilities at S.W.COLE include contract and business development, project management and assisting with testing services such as soil density, concrete, masonry, and performing special inspections and associated laboratory testing.

Project Experience:

Dartmouth College, Hanover, New Hampshire: Alan has served as Project Manager on a variety of materials testing projects for Dartmouth for more than ten years. He has been responsible for coordinating and performing construction materials testing and inspection services, as well as Special Inspection services, on many campus-wide projects. Alan performed the inspection of Fire Stopping Systems for the 60,000 sf Williams Translational Research building at DMHC Campus. He was also responsible for the documentation of penetrations and the wall fire stopping system and performing non-destructive and visual inspection of the installation.

Dartmouth Hitchcock Medical Center, Hanover, New Hampshire: Alan served as Project Manager on this project and was responsible for installing and managing a mobile laboratory facility for a new campus with nine buildings.

Kendal at Hanover, Hanover, New Hampshire: On this three year parking garage project, Alan performed impact-echo testing on approximately 300 columns to determine the presence and extent of delamination caused by corroding reinforcing steel.



Scott L. Harmon

Construction Services
Operations Manager

Education:

B.A., Public Administration,
University of Maine

Certifications:

ACI Certified Concrete Strength
Testing Technician

ACI Certified Concrete
Laboratory Technician, Grade 1

ACI Certified Concrete Field
Technician, Grade 1

ACI Certified Aggregate Testing
Technician, Level 1

Specialized Training:

OSHA 40-Hour Hazardous
Waste Site Worker Course

OSHA 10 Hour Construction
Safety & Health Certified

Troxler Certified Nuclear
Densometer Concrete Masonry
Testing Technician

Scott Harmon was born in Dover, New Hampshire and was raised in Berwick, Maine. He attended the University of Maine, where he earned a B.A. in Public Administration. Scott worked for a concrete contractor during high school and college, which provided the experience and interest that led him to his career. After graduating from college, Scott worked for seven years for R. W. Gillespie & Associates in Maine and New Hampshire as an engineering technician and construction materials testing manager.

Scott joined S.W.COLE in March 1999. He has over 30 years experience in the construction field, including over 23 years of construction materials testing experience. He has worked on a large variety of project types, including Federal Aviation Agency and Maine and New Hampshire Department of Transportation QC / QA work, which included soils, concrete and asphalt work. He has also worked on landfill construction and closures, retail malls, military facilities, schools, wastewater treatment facilities, power plants and roadway construction projects. He is experienced in concrete and asphalt mix designs, rock anchor testing, pile drive monitoring and concrete batch plant procedures.

Scott's field experience is complemented by his knowledge of associated laboratory testing and his management experience. His responsibilities at S.W.COLE include contract development and negotiations as well as project management. In 2020, Scott was promoted to Construction Services Operations Manager. He is recognized by our clients for his communication and customer service skills. He enjoys working with people and being part of successful project teams. When not at work, Scott prefers to spend his time participating in outdoor activities with his family.

Project Experience:

Scott has performed on, or actively managed, hundreds of construction testing projects. While with S.W.COLE, he has worked on projects including:

- Epping Crossing and Brickyard Square, Epping, NH
- Exeter High School, Exeter, NH
- QC testing on numerous NHDOT projects
- Wentworth Douglass Hospital Additions, Dover, NH
- Federal Prison, Berlin, NH
- Numerous Projects at Phillips Exeter Academy, Exeter, NH
- Numerous Projects at the University of New Hampshire, Durham, NH
- QA/QC for NHDOT at the Memorial Bridge, Portsmouth, NH / Kittery, ME
- QA/QC for MassDOT at the Whittier Bridge, Amesbury, MA

SOMERSWORTH OFFICE

Thomas J. Morgan, P.E.
Geotechnical Engineer



Education:

B.S., Civil Engineering Rensselaer Polytechnic Institute

M.S., Civil Engineering, University of New Hampshire

Registrations:

Professional Engineer: Maine,
New York, Vermont

Affiliations:

Member, American Society of Civil Engineers

Member, Hudson-Mohawk Geotechnical Chapter of ASCE

Publications:

Development of an Alternative Laboratory Compaction Method for Granular Fill Materials, M.S. Thesis for University Of New Hampshire, Durham, NH, May 2005.

Joint Author for Instrumentation and Performance of a Liquefaction Mitigation Program by Compaction Grouting, 4th International Conference On Grouting and Deep Mixing, New Orleans, LA, February 2012.

Tom Morgan received his B.S. in Civil Engineering from Rensselaer Polytechnic Institute in 2001 and his M.S. in Civil Engineering from the University of New Hampshire in 2005. While completing his Master's degree, Tom acted as a teaching assistant for Soil Mechanics and Foundations at the University of New Hampshire, and decided to pursue his career in geotechnical engineering.

Working for C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C., Tom worked his way from geotechnical engineer to senior geotechnical engineer. Tom's responsibilities included field inspection of numerous subsurface investigation programs; the preparation of geotechnical engineering reports presenting foundation recommendations, allowable foundation bearing pressures, expected total and differential settlements of structures; slope stability analyses; seismic considerations including determination of seismic design parameters, performance of dynamic site response analyses and liquefaction analyses; design of site pavements; and design of excavation support and retaining walls (sheeting/shoring, soil nail walls, mechanically stabilized earth slopes, gravity walls, and segmental block walls).

Joining the S.W. Cole Engineering team in June 2017, Tom is looking forward to continuing as a geotechnical engineer and serving our clients throughout New England.

Select Project Experience

Main Street Reconstruction, Winooski, VT : Reconstruction of Route 2 required replacement of the existing domestic water and sanitary systems as well as the road surface improvements. S. W. Cole performed 13 test borings used to collect data and Tom provided recommendations for a new pavement section based upon subsurface conditions.

Shelburne Public Library, Shelburne, VT: S. W. Cole obtained subsurface information at the site in order to develop geotechnical recommendations relative to foundations and earthwork associated with the proposed construction of a public library. The new building will be completed after the demolition of the existing library, and will be two stories with approximately 6,200 square feet of public space. Nine (9) test borings were performed and Tom made geotechnical recommendations for design and construction of the new library based on the data gathered.

Lague Street Water Line and Slope Stabilization, Montpelier, VT : This project involved the replacement of a water main in a residential area, that also required remedial measures to provide slope stabilization to the area adjacent to Lague Street. S. W. Cole performed eight (8) test borings and Tom provided a subsurface conditions report to assist the City Engineering Department in design.



VERMONT SURVEY and ENGINEERING, INC.

SURVEYORS and CIVIL ENGINEERS

79 RIVER STREET, SUITE 201 • MONTPELIER, VERMONT 05602
(802) 229-9138 • FAX (802) 229-9130 • E-mail: Info@VermontSurvey.com

Stephen Fraser, LS – Principal/Project Manager
AOT Manager IV

VT LS #527
NH LS #971
NY LS #050855

Number of years with firm: 14

Mr. Fraser has been involved with engineering and surveying since 1971. Before joining Vermont Survey and Engineering, Inc. in 2005, he was employed for twenty-five years by the City of Barre as a mapping and surveying specialist. During this period, his responsibilities included maintaining water, sewer, and surface utility maps; GIS mapping using ArcInfo 8.0.3; project design and deed research; municipal surveying and construction layout; assisting all departments with their mapping needs; assisting the public regarding all aspects of property ownership; and E 911 liaison.

Since joining Vermont Survey, Mr. Fraser has served as Project Manager for survey and right-of-way efforts associated with a twenty-five mile power transmission project in western Vermont, which includes plat preparation and title research on approximately 150 properties. He is also Manager-In-Charge of deed research, property surveys, and plat preparation and is an accomplished AutoCAD operator.

Mr. Fraser has been involved with the following VTrans projects:

Bennington Bypass North NH F 019-1(5)
Bennington AV-FY 15-010
Brandon NH 019-3(496)
Burlington MEGC M 5000(1)
CULV032-CULV033 Statewide
East Montpelier-Marshfield-Plainfield HPRC(1)
Essex-Westford HPRC(2)
Hartford STP 0113(59)S
Hartford STP BIKE(62)
Hartford STP EH09(15)
Hartford STP EH10(18)
Middlebury AIR 04-3181
Morristown STP HES 030-2(28)
South-Hero STP HES 028-1(22)
South Hero STP SHST(1)
Williston STP HES 5500(12)

Professional Affiliations/Education

A.A.S. Civil Engineering Technology (Surveying Major) – VT Technical College
Vermont Society of Land Surveyors
New Hampshire Land Surveyors Association
New York State Association of Professional Land Surveyors



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Andrew McQueeney – Principal/Project Manager *AOT Manager IV*

Number of years with firm: 29

Mr. McQueeney has been involved with engineering and surveying since 1985. Before joining Vermont Survey and Engineering, Inc. in 1991, he was employed by McDonald-Sharpe Surveyors and Engineers of Old Saybrook, CT. As CADD Manager, he is responsible for developing AutoCAD, MicroStation and InRoads deliverables as well as overseeing CADD work of others. He has been using AutoCAD software since 1991 and Bentley Systems and Intergraph software since 1998. A Principal of the company since 2009, Mr. McQueeney now coordinates the activities of the field crews and office staff, and acts as Project Manager for the majority of VTrans projects that VSE is involved with.

Mr. McQueeney has been VSE Project Manager for the following VTrans projects:

Structures Projects

Bennington ER BHF 010-1(45)
Bethel BHF 0241(38)
Cavendish ER BRF 0146(13)
Corinth BRO 1447(29)
CULV032-CULV033 Statewide
Fairfield BRO 1448(38)
Hyde Park STP CULV(26)
Lincoln FAS 0188(TH1)
Lunenburg NH CULV(27)
New Haven FAS 0183(TH2)
North Hero-Grand Isle BHF 028-1(26)
Plymouth ER BRS 0149(5)
Rockingham BRF 0126(12)
Ryegate IM CULV(28)
Waterbury IM 089-2(43)
Woodstock BHO 1444(52)

Roadway Projects

Andover-Chester STP 016-1(28) SC
Bakersfield STP SCR(11)
Brandon-Rochester ER STP 0162(21)
Guilford-Rockingham IM SIGN(44)
Marlboro-Brattleboro NH 010-1(46) SC
Milton IM 089-3(66)
Morristown STP HES 030-2(28)
Randolph-Northfield STP 0187(10) SC
Rutland-Killington NH 020-2(36)
South-Hero STP HES 028-1(22)
St. Johnsbury-Lyndon IM 091-3(50)
Stockbridge-Bethel STP 2910(1)
Waterbury FEGC F 013-4(13)
Williston STP HES 5500(12)
Windsor IM 091-1(64)
Woodstock STP 0241(40)

Professional Affiliations/Education

A.A.S. Surveying and Forestry - Paul Smith's College



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Jason Riley, LS – CADD Operator/ROW Agent
AOT Technician VI

VT LS #59686

Number of years with firm: 16

Mr. Riley has been involved in the surveying field for the past 14 years. During this time his duties have ranged from Rodman to Party Chief to CADD draftsman. He has experience in highway construction layout, 3-dimensional topographic surveying, boundary survey, and as-built surveys. Mr. Riley's responsibilities have also included deed research and plat preparation, construction quantity calculation, and oversight/training of other draftsmen. A Vermont Licensed Land Surveyor since 2012, Mr. Riley's capabilities and responsibilities continue to grow at VSE.

Mr. Riley has been involved with the following VTrans projects:

Structures Projects

Bennington ER BHF 010-1(45)
Bethel BHF 0241(38)
Cavendish ER BRF 0146(13)
Corinth BRO 1447(29)
CULV032-CULV033 Statewide
Fairfield BRO 1448(38)
Hyde Park STP CULV(26)
Lincoln FAS 0188(TH1)
Lunenburg NH CULV(27)
New Haven FAS 0183(TH2)
North Hero-Grand Isle BHF 028-1(26)
Plymouth ER BRS 0149(5)
Rockingham BRF 0126(12)
Ryegate IM CULV(28)
Waterbury IM 089-2(43)
Woodstock BHO 1444(52)

Roadway Projects

Andover-Chester STP 016-1(28) SC
Bakersfield STP SCR(11)
Brandon-Rochester ER STP 0162(21)
Guilford-Rockingham IM SIGN(44)
Marlboro-Brattleboro NH 010-1(46) SC
Milton IM 089-3(66)
Morristown STP HES 030-2(28)
Randolph-Northfield STP 0187(10) SC
Rutland-Killington NH 020-2(36)
South-Hero STP HES 028-1(22)
St. Johnsbury-Lyndon IM 091-3(50)
Stockbridge-Bethel STP 2910(1)
Waterbury FEGC F 013-4(13)
Williston STP HES 5500(12)
Windsor IM 091-1(64)
Woodstock STP 0241(40)

Professional Affiliations/Education

A.A.S. Surveying and Forestry - Paul Smith's College
Vermont Society of Land Surveyors

YEARS OF EXPERIENCE

9

EDUCATION

A.A.S., Civil Engineering, Vermont
Technical College, 2014

CERTIFICATIONS

- ACI Concrete Field Testing Technician -
Grade I (3/22/26)
- NETTCP Concrete Technician #1352
(4/18/24)
- NETTCP HMA Plant Technician
#1292m (3/20/25)
- PCI Level II (7/23)
- VT Traffic Control Tech
- VT Flagger Trainer
- Troxler/Hazmat
- OSHA 10-hour

Percy is a Precast Concrete Plant, HMA Plant, & Concrete/Soils Inspector with 9 years of experience in surveying, planning, design, inspection, construction, and research of engineering tasks.

Representative Experience

Burlington International Airport Taxiway C, South Burlington, VT

Provided quality assurance materials testing and inspection services for HMA.

Burlington International Airport Terminal Apron Rehabilitation 7-1, South Burlington, VT

Project consists of the construction of a new remain overnight aircraft parking apron on the south side of the terminal apron. Provided inspection services for asphalt, cement, and aggregate.

VTrans Plant Inspections

Provided HMA plant inspections throughout the state for multiple projects since 2020.

MassDOT Transportation Projects

Provided precast/prestress inspections for multiple projects.

CTDOT Transportation Projects

Provided task order materials testing for HMA mixtures, aggregates, and Portland cement concrete.

University of Vermont On Campus Multipurpose Center, Burlington, VT

Provided material testing and special inspection services.

VTANG Taxiway Reconstruction Project

Provided on-site and laboratory QC for soils and concrete.

Beta Technologies Addition, South Burlington, VT

Provided soils field compaction testing.

Chevrolet Dealership, White River Junction, VT

The \$4.8M new Chevrolet Dealership project included the construction of a new automobile dealership on Sykles Avenue in White River Junction, VT. Provided materials testing.

Liberty Utilities Cable Replacement, Hanover, NH

Provided inspection services. Performed trench inspection as well as compaction testing.

NHDOT Precast Plant Inspections

Inspected voided slabs and SIP panels in Middlebury, VT.

YEARS OF EXPERIENCE

38

EDUCATION

- A.S., Civil and Environmental Engineering, Vermont Technical College, Randolph, VT
- A.S., Welding Engineering, Wentworth Institute, Boston, MA
- Vocational Instructor's Program, Teacher's Certificate, University of Vermont, Burlington, VT

CERTIFICATIONS

- NICET Bridge Safety Inspector Level IV
- NBIS Bridge Safety Inspections
- CWI AWS QCI-96
- NHI Bridge Safety Inspection
- OSHA 10-hour

Peter is an engineering professional with extensive experience in industrial piping systems, structural steel, lite gauge steel framing, QA/QC in petroleum and natural gas industry in both power generation and bulk storage. He is well-versed in API, AWS ASTM, NFPA, and ASME piping codes.

Representative Experience**Quality Control Specialist**

Review incoming orders for quality requirements. Perform various testing (tensile and hardness, weldability tests, magnetic testing MT, Liquid Penetration LP, wet magnetic testing). Generate and email file test reports. Prepare specimen, create purchase orders, and write requisitions for outside services. Review incoming materials, returns and other products. Respond to customer requests for documentation/corrections. Perform calibrations and monitor calibration schedules. Subject castings to various testing methods (pressure testing, magnetic particle testing, bubble testing). Perform quality control audits as required. Ensure all castings are properly marked and tested in accordance to prescribed standards/specifications.

QA/QC Engineer

Preparation of work packages from issued drawings and Navis model, and field support. Preparation of drawings and follow up with the fabrication workshop. Tracking and inspection for fit-up and welds. Prepare welding maps, and fill ITP forms, and Inspection of piping support installation. Documents control to make sure all issued drawing with latest revisions. Issuance RFIs to the client. Preparing as-built drawing, and turnover packages. Walk down with the client and prepare a punch list for each system. Confirm that the welders are following the right WPS for each system. Confirm complete installation of all required parts. Visually inspect piping to verify that clean-in-place (CIP) systems are adequate. Coordinate and witness for WQTR, WPS, PWHT, PQR.

Representative Project List

- Alderman's Toyota Addition, Rutland, VT
- Army Mountain Warfare School, Jericho, VT
- BETA Technologies Addition, South Burlington, VT
- BTV Quick Turn Around Facility, South Burlington, VT
- BTV Terminal Integration Project, South Burlington, VT
- Charlotte Central School Phase I Improvements, Charlotte, VT
- FedEx Distribution Facility, South Burlington, VT
- Rutland Regional Medical Center Chiller Plant Upgrade
- Roxbury Fish Hatchery, VT
- University of Vermont On Campus Multipurpose Center
- University of Vermont Recital Hall Expansion and Renovation
- University of Vermont Hills Building
- Vermont Country Store (Distribution Center)
- Vermont Food Bank Canopy
- Williston Public Safety Facility, VT

YEARS OF EXPERIENCE

19

EDUCATION

- B.S., Architectural Engineering Technology, Vermont Technology College
- A.A.S. Architectural and Building Technology College

CERTIFICATIONS

- ACI Aggregate Testing Technician - Level 1 (1/19/27)
- ACI Concrete Field Testing Technician - Grade I (1/29/24)
- ACI Concrete Laboratory Testing Technician - Level 1 (1/19/27)
- ACI Concrete Strength Testing Technician (1/19/27)
- ICC Reinforcing Concrete Special Inspector (12/11/23)
- ICC Structural Masonry Special Inspector (12/11/23)
- ICC Spray Fireproofing Special Inspector (12/11/23)
- NETTCP Concrete Technician #1113 (2/22/27)
- NETTCP Soils & Aggregate Inspector #672 (12/21/26)
- NETTCP HMA Paving Inspector #2834 (3/11/27)
- PCI Level I and II (2/22/25)
- OSHA 10-hour
- Q/C Training Course Certification of Nuclear Moisture/Density Equipment

Chris is the Branch Manager for our Vermont offices. He has extensive experience in the testing and inspection of a variety of materials associated with both buildings and highway projects. Chris has more than 19 years of experience in building and highway construction QA/QC, as well as in fabrication plant inspections. He has performed PCI fabrication plant inspection for more than 125 projects. Chris has provided QA inspection at precast/prestressed fabrication plants for MaineDOT, VTrans, NHDOT, MassDOT, and NYSDOT.

Representative Experience**VTrans**

More than 20 projects including: Next beams, Stowe, VT; box beams, Middlebury, VT; Cross Street Bridge; bulb tee girders, Middlebury, VT; and box culvert/wing walls, Warren, VT.

Vermont Air National Guard, South Burlington, VT

The Vermont Air National Guard embarked on a major \$38.6M repaving project of its Burlington base. Provided ongoing quality control for the general contractor including sampling of aggregates; sieve analysis; moisture density relationship; in-place density testing; concrete field testing; concrete compressive and flexural strength testing; and concrete plant inspection.

VT BGS Department of Mental Health Recovery Residence, Essex, VT

Project Manager for general and special testing, inspections, and materials testing services, for construction of recovery residence.

VT BGS Franklin Courthouse Exterior Renovations, St. Albans, VT

Project Manager for construction material testing and special inspection services for courthouse renovation project.

Chevrolet Dealership, White River Junction, VT

The \$4.8M new Chevrolet Dealership project entails the construction of a new automobile dealership (single story structure with a partial mezzanine) on Sykles Avenue in White River Junction, VT. JTC provided materials testing and geotechnical engineering services.

University of Vermont On Campus Multipurpose Center, Burlington, VT

Project Manager for project providing material testing and special inspection services.

Elizabeth Mine Superfund Site, Strafford, VT

Project Manager for field testing and material analysis services.

NHDOT Route 16 Bridge Replacement Ossipee, NH

JTC was selected to provide resident engineering oversight services for the federally-funded project Route 16/25 Ossipee Bridge Replacement and Reconstruction/Rehabilitation Contract# 14649 [Federal-Aid Project Number X-A000 (490)].

MassDOT

Box beams; bulb tee girder, box culvert/wing walls; MSE wall panels.

YEARS OF EXPERIENCE

7

EDUCATION

B.A., History (minor: Biology), University of Albany, 2014

CERTIFICATIONS

- ACI Concrete Strength Testing Technician (9/9/22)
- ACI Concrete Field Testing Technician - Grade I (1/19/27)
- NETTCP Concrete Technician #1319 (4/11/23)
- NETTCP HMA Plant Technician #1232m (3/22/24)
- NETTCP Soils & Aggregate Inspector #1763 (3/16/27)
- APNGA Portable Nuclear Gauge Safety and U.S. D.O.T. Hazmat

Seth is a Field and HMA Plant inspector with over 7 years of experience with construction material engineering and testing services, including: construction monitoring and inspections; concrete/soils field and laboratory testing; HMA Plant Inspection; and special inspections.

Representative Experience

University of Vermont (UVM) Science, Technology, Engineering and Mathematics (STEM), Burlington, VT

The STEM Complex included two new buildings that replaced Cook Building and Angell Hall: a new integrated teaching and research laboratory building and a new faculty office and classroom facility. Onsite QC for owner. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

UVM First Year Residence Hall and Dining Facility (FYRH), Burlington, VT

The FYRH facility will include two residence hall wings to accommodate 695 student beds, a fitness center, and a dining facility with seating for 450. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

UVM Central Plant Chiller Expansion (CPCE), Burlington, VT

The CPCE will include a three-story addition to the Central Heating Plant, cooling tower site wall, utility vaults and installation of one 1,600-ton electric chiller and two new cooling towers. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

UVM Recital Hall Expansion and Renovations, Burlington, VT

The Recital Hall Expansion and Renovation project includes a new two-story addition that will improve instructional space for the Music Department. Testing and inspection services for rebar, concrete, soil, HMA, and fireproofing.

WWTF Disinfection Upgrade Project, Burlington, VT

On-site inspection and materials testing services for a \$1.8M wastewater treatment facility disinfection upgrade project.

Vermont Air National Guard, South Burlington, VT

The Vermont Air National Guard embarked on a major repaving project of its Burlington base. The \$38.6 million paving project officially broke ground in November of 2016. It included the airfield's two taxiways, Delta and Foxtrot, as well as the existing hanger apron. Provided ongoing quality control for the general contractor including sampling of aggregates; sieve analysis; moisture density relationship; in-place density testing; concrete field testing; concrete compressive and flexural strength testing; and concrete plant inspection.

Burlington International Airport, Reconstruct Cargo Apron, VT

JTC was responsible for acceptance testing of soils and aggregates, and concrete.

Chevrolet Dealership, White River Junction, VT

The \$4.8M new Chevrolet Dealership project entails the construction of a new automobile dealership (single story structure with a partial mezzanine) on Sykles Avenue in White River Junction, VT. JTC provided materials testing and geotechnical engineering services.

YEARS OF EXPERIENCE

4

CERTIFICATIONS

- ACI Concrete Field Technician - Grade 1 (9/6/24)
- NETTCP Soils and Aggregate Inspector #2259 (3/4/25)
- Troxler Safety and Hazmat
- OSHA 10
- OSHA 30

Jake has four years of experience providing testing services for building projects throughout Vermont.

Representative Experience

Vermont Department of Mental Health (DMH) Recovery Residence, Essex, VT

JTC provided materials testing services for on-site materials testing, inspections and special inspections for all structures and site work at the DMH Recovery Residence. Performed soils compaction and concrete testing.

VT BGS Franklin Courthouse Exterior Renovations, St. Albans, VT

JTC was selected to provide construction material testing and special inspection services for courthouse renovation project. Performed soils compaction and concrete testing.

Spruce Peak – The Tree House, Stowe, VT

Performed concrete testing for slump, air content, temperature, and strength specimens.

Town Fair Tire, Berlin, VT

Performed concrete testing for slump, air content, temperature, and strength specimens.

VT Food Bank, Barre, VT

Performed soils compaction and concrete testing.

Part 2 Kids – The Homestead School, South Burlington, VT

Performed soils compaction and concrete testing.

Maplefields, Winooski, VT

Performed soils compaction and concrete testing.

YEARS OF EXPERIENCE

6

EDUCATION

B.A., Architectural Engineering
Technology
Vermont Technical College

CERTIFICATIONS

- ACI Concrete Field Testing Technician - Grade I (1/30/23)
- NETTCP Concrete Technician #1389 (3/11/26)
- NETTCP HMA Paving Inspector #4800 (2/2/27)
- NETTCP HMA Plant Technician #1396 (3/4/27)
- NETTCP Soils & Aggregate Inspector #2033 (6/6/23)
- PCI Level II
- APNGA Portable Nuclear Gauge Safety and U.S. D.O.T. Hazmat Certification

Harper is a Field and Laboratory Technician with 6 years of experience with construction material engineering and testing services, including the following: construction monitoring and inspections; concrete/soils field and lab testing; and special inspections including precast concrete plant inspections.

Representative Experience**Burlington International Airport, Terminal Apron Replacement, Phase 6**

JTC was responsible for acceptance testing of soils and aggregates, and concrete.

Vermont Air National Guard, South Burlington, VT

The Vermont Air National Guard embarked on a major repaving project of its Burlington base. The \$38.6 million paving project officially broke ground in November of 2016. It included the airfield's two taxiways, Delta and Foxtrot, as well as the existing hanger apron. Provided ongoing quality control for the general contractor including sampling of aggregates; sieve analysis; moisture density relationship; in-place density testing; concrete field testing; concrete compressive and flexural strength testing; and concrete plant inspection.

VT BGS Department of Mental Health Recovery Residence, Essex, VT

JTC was selected to provide general and special testing, inspections, and materials testing services, for construction of recovery residence. Performed soils compaction and concrete testing.

VT BGS Franklin Courthouse Exterior Renovations, St. Albans, VT

JTC was selected to provide construction material testing and special inspection services for courthouse renovation project. Performed soils compaction and concrete testing.

University of Vermont Science, Technology, Engineering and Mathematics (STEM), Burlington, VT

The STEM Complex included two new buildings that replaced Cook Building and Angell Hall: a new integrated teaching and research laboratory building and a new faculty office and classroom facility. Onsite QC for owner. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

University of Vermont First Year Residence Hall and Dining Facility (FYRH), Burlington, VT

The FYRH facility will include two residence hall wings to accommodate 695 student beds, a fitness center, and a dining facility with seating for 450. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

University of Vermont Central Plant Chiller Expansion (CPCE), Burlington, VT

The CPCE will include a three-story addition to the Central Heating Plant, cooling tower site wall, utility vaults and installation of one 1,600-ton electric chiller and two new cooling towers. Tasks included rebar inspection, testing concrete, soil compaction, and fireproofing inspection.

YEARS OF EXPERIENCE

4

EDUCATION

- B.S. in Mechanical Engineering, University of New Hampshire

CERTIFICATIONS

- ACI Concrete Field Testing Technician - Grade I (7/31/24)
- NETTCP Soils & Aggregate Inspector #2303 (8/26/25)
- PCI Level II (5/7/25)
- OSHA 10-hour Construction
- Nuclear Gauge Certification
- NHDOT Local Public Agency Certified #2554 (12/31/26)

Shaun has experience in field inspection testing for concrete, soils, and reinforcing steel. He has provided precast inspections for multiple state transportation departments, and has started to oversee utility installation as a Resident Project Representative.

Representative Experience**MassDOT, RIDOT, and CTDOT Transportation Projects**

Provided QA for multiple precast concrete projects and has been assigned to projects located at Fort Miller in Greenwich, NY / Oldcastle in Avon, CT / CSI in Hudson, NH / J.P. Carrara in Middlebury, VT. Elements inspected include GRT's, Box Culverts, Box Beams, NEXT Beams, stock barrier, MSE Wall Panels, prefabricated bridge units, and prestressed bridge slabs.

RIDOT MPA 429 On-Call Construction and Materials Inspection Services

Precast concrete inspection on MSE Wall Panels and precast bridge units (PBU's). Monitored plant QC and tested concrete mix during each placement.

Auburn Sewer Upgrades

Provided Resident Project Representative services for Onsite Engineering during a sewer bypass upgrade. This project was the installment of a new 20" sewer force main that connected the BlackRock water treatment plant to one of the pump stations in the city of Auburn, MA. Responsibilities included keeping a record of quantities, writing daily reports, and providing ties for utilities.

Winstead Water Main Upgrades

Provided Resident Project Representative services for Environmental Partners. This project was the connection of the newly installed water main to the existing branch mains and new residential water services. Responsibilities included keeping a record of quantities, writing daily reports, and providing ties for utilities.

Massachusetts Bay Transportation Authority (MBTA) Charlestown Bus Facility Improvements, Charlestown, MA

This project consisted of soil improvements, dredging, shoreline stabilization, drainage repairs and upgrades, flood resiliency, and other items specified on the drawings or in the specifications. Responsibilities included the following: sampled and tested various concrete, grout, aggregates, soils, and other related materials to ensure all products met and were utilized in accordance with project specifications.

MBTA Cabot Yard & Maintenance, South Boston, MA

JTC provided QA/QC construction materials testing and inspection services. Project duties included materials testing and field observations.

Lexington Children's Place, Lexington, MA

A \$10.4M 19,000-sft new facility with plenty of classrooms, specialized and flexible spaces, and administration areas. Provided materials testing and field observations.

Manchester Memorial Elementary School, Manchester-by-the-Sea, MA

This MSBA-funded project involved the construction of a new \$52M 2-story, 77,102-sf school building. Responsibilities included providing materials testing quality control during multiple phases of the construction process.

YEARS OF EXPERIENCE

11

EDUCATIONB.S., Civil Engineering Technology,
Rochester Institute of Technology, 2013**CERTIFICATIONS**

- ACI Concrete Field Testing Technician - Grade I (1/19/27)
- NETTCP Concrete Technician #1327 (4/11/23)
- NETTCP HMA Plant Technician #1265m (5/3/24)
- NETTCP Soils & Aggregate Inspector #1997 (4/25/23)
- Nuclear Density Gauge
- PCI Level II Inspector
- OSHA 30-hour

Joe has over 11 years of field experience performing quality assurance and quality control inspections. He has performed quality assurance inspections of precast concrete and HMA plants for government agencies throughout New England.

Representative Experience**VT BGS Department of Mental Health Recovery Residence, Essex, VT**

JTC was selected to provide general and special testing, inspections, and materials testing services, for construction of recovery residence. Performed soils compaction and concrete testing.

VT BGS Franklin Courthouse Exterior Renovations, St. Albans, VT

JTC was selected to provide construction material testing and special inspection services for courthouse renovation project. Performed soils compaction and concrete testing.

University of Vermont On Campus Multipurpose Center, Burlington, VT

Provided material testing and special inspection services.

Vermont Air National Guard, South Burlington, VT

The Vermont Air National Guard embarked on a major \$38.6M repaving project of its Burlington base. It included the airfield's two taxiways, Delta and Foxtrot, as well as the existing hanger apron. Provided ongoing quality control for the general contractor including sampling of aggregates; sieve analysis; moisture density relationship; in-place density testing; concrete field testing; concrete compressive and flexural strength testing; and concrete plant inspection.

Key Chevrolet Dealership, White River Junction, VT

The \$4.8M new Chevrolet Dealership project entails the construction of a new automobile dealership (single story structure with a partial mezzanine) on Sykes Avenue in White River Junction, VT. JTC provided materials testing and geotechnical engineering services.

City Center Project, Rutland, VT

JTC was contracted by the City of Rutland, Vermont to provide resident engineering and engineering oversight for roadway, sidewalk, utility, and streetscape improvements for the construction of the Center Street Marketplace.

NHDOT On-Call Statewide Contract for Materials Testing

JTC was selected in 2003 to perform materials testing and inspection for the New Hampshire Department of Transportation. Our responsibilities include HMA, concrete, precast and pre-stressed, soils and aggregate, steel fabrication shop, structural steel field inspection.

Quality Control Supervisor, Middlebury, VT

Responsible for all daily pre-pour and post-pour inspections, pre-stressed strand calculations and measurement, fresh concrete testing, and compressive strength testing, training of quality control technicians, and calibration of equipment.