

RESPONSE TO REQUEST FOR QUALIFICATIONS FOR

At-The-Ready Consultant Engineering Services for Municipalities 2023

Municipal Project Management 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.



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A.

COVER LETTER

Burlington Great Streets, Burlington, Vermont



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, Municipal Project Management 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.

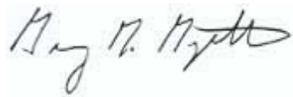
We Know State and Federal Regulations: We have knowledge of state and federal regulations. Over 95% of the work done by this team is state and federally funded, meaning these projects meet their requirements and follow their processes. Unique requirements typically include NEPA documentation, state and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



Greg Goyette, PE
Principal, Transportation
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Israel Maynard, PE
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B.

GENERAL FIRM INFORMATION

US 2/I-89 Exit 14 Third Eastbound Lane, South 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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 South Burlington, Vermont 05403
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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



Fort Ethan Allen Sidewalk, Colchester, 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.

C.

ORGANIZATIONAL CHART

Manchester Roundabout, Manchester, Vermont



Program Manager

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Design Services

Assignment Managers

DESIGN SERVICES		
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Amanda Ludlow*	802.497.6435	amanda.ludlow@stantec.com
Tom Knight, PE	802.497.6409	tom.knight@stantec.com

Lead Engineers

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Sean Neely, PE *	802.497.6433	sean.neely@stantec.com
Walt Woo, PE *	781.221.1294	walt.woo@stantec.com

Subconsultant Support

SURVEY		
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ARCHEOLOGY / HISTORIC		
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Municipal Project Management Services

Assignment Managers

MUNICIPAL PROJECT MANAGEMENT		
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Gary Santy, PE *	802.497.6421	gary.santy@stantec.com
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Construction Inspection Services

Assignment Managers

CONSTRUCTION INSPECTION SERVICES		
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Construction Inspectors

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Subconsultant Support

MATERIAL TESTING		
S. W. Cole	802.391.4542	info@swcole.com
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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TRAFFIC MANAGEMENT / CONSTRUCTIBILITY		
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BIKE / PEDESTRIAN / COMPLETE STREETS		
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TRAFFIC SAFETY & OPERATIONS		
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STORMWATER DESIGN / ANALYSIS		
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ENVIRONMENTAL (CONTAMINATED SOILS, NEPA, PERMITTING)		
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UTILITIES (WATER / SEWER, TUNNELING / TRENCHLESS, RELOCATION)		
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RAIL		
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Sarah Borenstein	781.221.1064	sarah.borenstein@stantec.com
Alanna Gerton, EIT	603.206.7542	alanna.gerton@stantec.com
Lindsay Navickis, EIT	802.864.0223	lindsay.navickis@stantec.com
Harrison Lucas, EIT	802.497.6392	harrison.lucas@stantec.com

* Resume included for key staff in Section F

D.

AVAILABILITY CHART

University Place, Burlington, 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.

MUNICIPAL PROJECT MANAGEMENT SERVICES

Mansfield Avenue Sidepath, Burlington, Vermont



MUNICIPAL PROJECT MANAGEMENT SERVICES

Qualifications and Experience

Our qualified staff members are just that because they are heavily experienced with providing Project Management Services for VTrans and municipally managed projects. In the past five years we have provided the Project Management Services for over 40 VTrans transportation projects. Our staff is aware that there needs to be an emphasis on tracking the project development process from project initiation through Contract Plans, bidding, and construction. Milestones for each project are continually monitored to determine if the project is proceeding on schedule or not. We keep a very close eye on project activities and schedules with the use of Microsoft Project to ensure that projects move forward as planned. We also try to be proactive and look ahead for issues that could impact the schedule and try to find ways to resolve any issues before they become problems. Our experience as design engineers and project managers on many previous transportation projects helps us recognize potential problems and avoid them, if possible. We have worked closely with VTrans and Municipal Project Managers on many of our previous assignments to keep them informed of the project progress and any issues, and will continue to do so in the future.

We believe that one of the keys for providing effective Project Management Services is working as a team member with the goal of completing a quality project, on schedule and on budget. The team members include the Municipal Staff, VTrans Project Manager, VTrans resource sections, and the design consultant. An important part of our duties is to coordinate and facilitate communications between the team members. We have shown the ability to consistently do this on previous assignments. We're confident our team is a perfect match for VTrans and the Municipalities for the following reasons:

Knowledge of State and Federal Regulations

A project management team needs to have knowledge of state and federal regulations. This team does. 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.

Public Participation

A project management team needs to have experience with public participation and facilitation. This team does. With every project comes a public participation process. The success of this process depends on the quality and clarity of information and the managing of public meetings. Experience on over 40 VTrans MAS projects has shown us the value of listening and documenting public concerns and soliciting these concerns in an organized fashion. Our proposed Municipal Project Managers are prepared to assume the role of meeting facilitator. Several have over 35 years of public experience doing so.

Experience Preparing RFPs and Scope of Services

A project management team needs experience preparing RFPs and Scope of Services. This team does. With most of our retainer or term contracts, and with many of our clients, we need to develop the scope of services. This often expedites the process and provides a clear understanding of the needed services. Although scope templates are a good place to start, experience shows they need to fit the project and they need to provide a clear understanding of the project's expectations. Our Municipal Project Managers' experience includes preparing RFPs for VTrans MAS projects and municipal projects.

VTrans Project Development Process

A project management team needs experience with the VTrans project development process. This team does. Having worked with municipalities and VTrans for 65 years, managing infrastructure projects is this team's specialty. It is one reason why Stantec has been repeatedly selected by our existing clients. With this experience, we understand the project development process and methods to expedite the process.



40+

Project administration contracts we've serviced alongside VTrans in the last five years.



US2/VT 100 Intersection Improvements, Waterbury, Vermont

Administering Projects from Design through Completion

A project team needs experience administering projects from preliminary design through construction completion. This team does. When VTrans needed additional project managers to assist them with managing consultants, they turned to Stantec. We have been involved with over 40 projects, and continue to support them.

We Are Committed to Partnering With You

Having worked with VTrans and many Vermont municipalities over the years, we have a strong desire to continue these relationships. We believe the best way to do this is to provide quality, innovative, and responsive service. That is our commitment.

Our Approach

To gain a better understanding of each project we're assigned under this contract, we will review the project area, review project plans, and discuss the project with Town Municipal staff. Based on this information, we will assemble a Stantec project management team with the experience, knowledge, commitment, and resources to facilitate the timely completion of the design phase, right-of-way, permits, and utility clearance while complying with all applicable federal, state, and local laws and ordinances.

Project Management and Communication

Our projects typically begin by distributing a written project work plan, followed by a "kick-off" meeting. The work plan clearly establishes all project roles, procedures and responsibilities. It contains all contract details, project milestones, a project directory, management and reporting procedures, and quality control procedures.

Regularly scheduled meetings are the most effective means of maintaining communication, project momentum, and seeking decisions. Our experience suggests that a "kick-off" meeting occur within two weeks of the Notice to Proceed. Subsequent meetings will be scheduled to coincide with work sessions, information collection trips, field review or regulatory agency meetings. The primary purpose of these meetings is to discuss and resolve outstanding issues, assign action items, and report on project progress.

Project Schedule

A project schedule is an essential management tool. It describes the project development process, sets project milestones, provides a means to track project progress and identifies critical path tasks. Using the sequential project task list from the MAS guidelines, a project schedule using Microsoft Project can be developed. We have effectively used this to communicate the steps and status.

Team members are prepared to review the project schedule at monthly coordination meetings and discuss possible measures to expedite the process. Potential measures include:

- Confirming input from regulatory agencies, public, and property owners has been considered in the plan development.
- Work with a project steering committee to confirm decisions.
- Begin property owner meetings and the right-of-way waiver process.
- Conducting regular utility relocation meetings to ensure responsiveness from utility owners.
- Discussing methods for schedule compression or recovery at major milestones.

These and solicited additional ideas will be discussed and pursued when appropriate.

Project Financial Management

A proven method to monitor the project's progress is through monthly reports coinciding with invoicing. Reporting "percent complete by task" and "percent expended by task" provides a method to evaluate the project's financial status. The monthly reports can also include what was accomplished, what work is anticipated next month, and any issue resolution or information needed. The result is an informed manager to address issues and needs.

Project Constructability and Costs

Team members are prepared to provide ideas for constructability and cost-saving measures. Stantec is very familiar with all types of construction. Two recent projects include the Waterbury VT 100/US 2 Roundabout and the Burlington Railyard Enterprise Project. Based on experience, potential measures may include:

- Evaluating alternative typical sections – width, depth, and surface.
- Minimizing the number of construction phases with temporary widenings or detours.
- Conducting a value-engineering review.
- Considering the consequential maintenance cost of items.
- Constructability review to minimize potential for change orders.

These ideas and others will be discussed with each Municipality to determine their applicability and value to their project.

Project Examples



↑ VTRANS RAIL, STRUCTURES & PAVEMENT MANAGEMENT PROJECT MANAGEMENT SERVICES, STATEWIDE, VERMONT

Stantec has provided project management services on over 50 projects for the Structures, Rail and Resurfacing Sections at VTrans since 2011. The services provided in connection with these projects included the following:

- Developing and updating project schedules.
- Oversight of all project-related activities as outlined in Section III of the VTrans Development Process Manual.
- Ensuring projects are developed in accordance with the project schedule, budget, and the VTrans project development process.
- Managing an independent design Consultant, including tracking the number of hours billed by the design Consultant against the applicable work orders.
- Coordinate project activities with various VTrans Sections, including the Environmental, Geotechnical, Utility, and ROW Sections.
- Attend project meetings as needed, including site meetings, public meetings, and meetings with Agency staff.
- Coordinate plan reviews, including preparing on-line shared reviews and facilitating the resolution of comments.
- Assistance during the Construction Phase, if requested, to coordinate contractor shop drawing submittals and reviews, and coordinate the resolution of design-related questions with the consultant.
- Provide project status update reports to the Project Manager on a bi-weekly or as-requested basis.

CONTACT 1

Paul Libby
 Vermont Agency of Transportation
 P: (802) 595-0720
 E: paul.libby@vermont.gov

CONTACT 2

Matt Bogaczyk
 Vermont Agency of Transportation
 P: (802) 793-5321
 E: matthew.bogaczyk@vermont.gov



↑ US2/VT100 INTERSECTION IMPROVEMENTS, WATERBURY, VERMONT

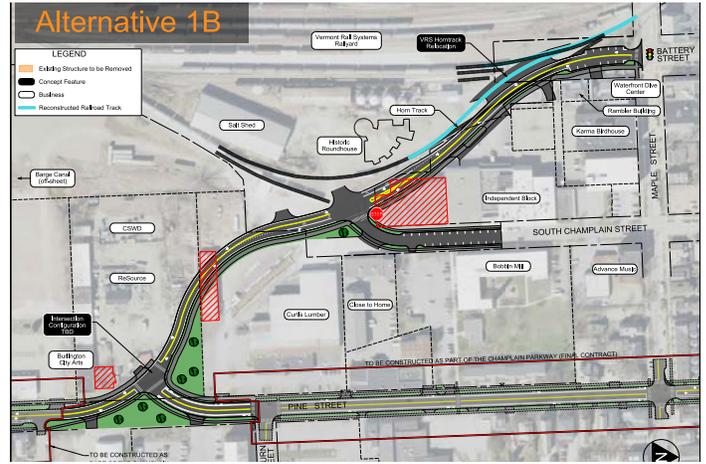
Putting the needs of the community and our client front and center, we tackled the traffic and safety issues at this existing unsignalized “T” intersection by designing a new roundabout with a number of features requested by the residents and business owners. The US Route 2 and VT Route 100 intersection, built in 1960, was experiencing increasing traffic with over 12,000 vehicles per day and 600-foot queues during peak travel hours. Further, while Route 2 is a village road with children and residents making up a large pedestrian component, Route 100 has higher speeds and large trucks heading to Green Mountain Coffee Roasters and affecting pedestrian safety.

Managing the traffic flow and providing a safer pedestrian environment were major goals of the town, as well as creating a northern gateway for Waterbury. We provided preliminary and final design services, permit coordination, and construction related engineering to meet our client’s goals. This was not without challenges. Among the most complex was the need to provide access to businesses adjacent to the roundabout during construction. To address this, we built into the construction documents the requirement for the contractor to place signs guiding drivers to parking lots for the businesses, to provide parking attendants to help drivers find spaces, and to station flaggers at business driveways to allow traffic flow.

The roundabout operation resulted in drivers having to slow down, and splitter islands in the middle of the roads provided shorter crossings, increasing pedestrian safety. We designed an ADA compliant path to the town Recreation Center, a major destination. Landscaping, lighting, and patterned concrete give the roundabout an aesthetic significance worthy of a gateway into town. We also provided stormwater management, utility coordination and updates, and traffic control during construction.

CONTACT

Alec Tuscany
 Town/Village of Waterbury
 P: (802) 241-4129
 E: publicworksdirector@waterburyvt.com



↑ BURLINGTON RAILYARD ENTERPRISE, BURLINGTON, VERMONT

The Burlington Railyard Enterprise Project (REP) is a proposed roadway to support economic development, improve livability of the surrounding neighborhoods, enhance multimodal travel connectivity in the Burlington Waterfront South area, and improve intermodal connections to the Burlington Railyard, a National Highway System (NHS)-designated intermodal facility. The REP will help to redirect through automobile and truck traffic away from Pine Street between Kilburn Street and Main Street by providing a direct connection from Pine Street to Battery Street. The new roadway is being designed to follow complete streets guidance and to include, shared use path, sidewalk, and landscaping to increase multimodal connections, user safety and comfort. The project will help improve livability and travel conditions in the Maple and King Street neighborhood and for all users in the cities South End.

Stantec’s role in the project is to advance Alternatives 1B, 2 and 5B developed through a previous scoping effort into the National Environmental Policy Act (NEPA) process. The NEPA process will identify the Least Environmentally Damaging Practicable Alternative (LEDPA) that will be advanced into engineering, permitting, right-of-way, and construction.

CONTACT

Corey Mims, PE
 Burlington Department of Public Works
 P: (802) 922-5001
 E: cmims@burlingtonvt.gov



Manchester Roundabout, Manchester, Vermont

Key Personnel

We have a large depth of staff available to perform management, engineering support and design review services. We have designated our best project managers to be available for any assignments that arise out of this contract. With offices throughout North America, our team has significant resources to assist them in completing any assignment. Full resumes for the following staff are in Section F - Resumes.

Assignment Managers

GREGORY GOYETTE, PE | PROGRAM MANAGER, ASSIGNMENT MANAGER: Greg will be the point person for VTrans to call upon as new assignments come up. If called, Greg will identify a Project Manager/Project Engineer team for each assignment, and work with them to develop a suitable scope and fee. He will also be available to serve as Assignment Manager depending on project needs and current workload. Greg has worked with the Municipal Assistance Bureau for the last 18 years, and has familiarity with many of the current project supervisors. His technical experience and proven managerial skills make him a great fit for this role.

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.

JARED GRIGAS, PE | ASSIGNMENT MANAGER: Jared has 10 years of bridge design experience. His experience includes structural bridge design, load rating, and construction inspection for bridges throughout Vermont and New Hampshire. Prior to joining the team at Stantec, Jared worked at the Vermont Agency of Transportation for six years in the Accelerated Bridge Program. Jared has extensive experience with accelerated bridge construction design, methods, and practices for both steel and prestressed concrete structures. His experience with accelerated bridge construction can help meet the needs of the community while reducing the project costs and impacts to the public.

JUSTIN RABIDOUX | ASSIGNMENT MANAGER: Justin has over 26 years experience in leading local government projects across all sectors. Projects have included wastewater treatment plants, wastewater collection and conveyance systems, intersection design and traffic signal timing and coordination plans, water and stormwater utility designs, and resident engineer and owner's representative for large-scale municipal transportation, utility and facility construction projects. Design work has included bicycle and pedestrian facilities; roadway striping and signage plans; traffic plans and work zone safety audits; and general plan production. He has managed several projects with elements of highway and culvert design, right-of-way acquisitions including necessity and compensation processes in accordance with the Uniform Relocation Act, utility design and coordination, materials sampling and testing; and permitting and required coordination between multiple agencies.

THAD LUTHER, PE | ASSIGNMENT MANAGER:

Thad has served as a Project Engineer and Project Manager for a diverse variety of transportation related projects for over 22 years. His roadway experience includes traffic engineering, signal design, highway geometrics, updating existing intersections, final design of limited access facilities, award winning rural highway upgrades and completion of planning studies for future roadway expansions. He is also experienced with neighborhood enhancement projects that utilize context sensitive design to satisfy multiple stakeholders. Elements of these enhancement projects include roundabouts, traffic calming, sidewalks, and new drainage facilities. Thad successfully combines technical know-how with the ability to facilitate communication between clients, co-workers and the public to complete projects.

RICK BRYANT, PE | ASSIGNMENT MANAGER:

Rick is a Senior Associate with more than 35 years of consulting experience in New England. He is a transportation planner and traffic operations specialist with an extensive background in planning, design, permitting and project management of public-sector projects. Rick has developed broad knowledge of state and local permitting regulations and has established strong working relationships with state highway and environmental permitting agencies. He is also an experienced public speaker who can effectively present transportation plans and projects at public hearings and other forums.

MIKE FOWLER, PE | ASSIGNMENT MANAGER:

Mike is a Senior Project Manager and is responsible for managing projects and the preparation of preliminary, final and contract design plans for various transportation projects. This work includes field reviews, developing horizontal and vertical alignment, structural pavement design, drainage design, quantity computations and cost estimating. Spending nearly three decades at the Vermont Agency of Transportation (VTrans), Mike has engineered hundreds of highway infrastructure assets to improve mobility and connectivity for communities throughout the Green Mountain State.

GARY SANTY, PE | ASSIGNMENT MANAGER:

Gary has over 40 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 40 in Vermont alone. His experience includes the planning, scoping, permitting, design, and construction of a wide range of transportation projects from the Bennington Route 279 new construction to the reconstruction of 6 VTrans Park-and-Rides. Through this experience, he is very familiar with the VTrans project development process and methods to expedite the process while meeting VTrans procedures, standards and specifications.

As Manager of the South Burlington office, Gary is aware of resources and availability beyond the local transportation group. He has frequent discussions with other office leaders regarding staff availability and work sharing with a focus on client needs and solving unique problems.

GREG EDWARDS, PE | ASSIGNMENT MANAGER:

Greg has over 35 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, specifications, and methods to expedite the process while meeting VTrans procedures, standards and specifications.

F.

RESUMES

Diverging Diamond Intersection, Colchester, 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.



Greg Goyette, PE

**Program Manager,
Assignment Manager**

YEARS WITH STANTEC

21

EDUCATION

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

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

REGISTRATIONS

Professional Engineer #8834, State of Vermont

Certified Professional in Erosion and Sediment Control #3116, CPESC, Inc.

MEMBERSHIPS

President (2009-2011), Vermont Society of Professional Engineers

President (2011-2012), Vermont Society of Engineers

Greg has managed and developed numerous transportation and stormwater projects for state, municipal, and private clients. He also has co-managed Burlington International Airport's Stormwater Compliance efforts over the last five years. Greg primarily focuses on urban/village roadway reconstruction projects and specializes in roundabout, bicycle / pedestrian, and low impact development (LID) stormwater designs. Greg's projects have been recognized in Vermont and New England for innovative design approaches.

RELEVANT EXPERIENCE

Vergennes Train Depot Relocation | Vergennes, Vermont

Project Manager responsible for oversight of civil/site, MEP, structural and landscape architecture design services for the move and rehabilitation of the historic Vergennes train station. Stantec developed specifications for moving the existing building 1000 feet to the current park-and-ride facility, worked with the VT State Historic Preservation Officer for the historic elements of the project, and designed the site to accommodate a future platform for rail service.

Montpelier Taylor Street to Main Street Multi-Use Path | Montpelier, Vermont

Project Manager responsible for engineering and permitting services for the design of a 968-foot shared-use path including a bridge beginning at Taylor Street crossing Carr Lot and the Central Vermont railroad, spanning the North Branch of the Winooski River and ending at Main Street in Montpelier, VT. The project involved reconstruction of a historic granite block wall, rehabilitation of a railroad crossing, mitigation of contaminated soils, decorative path lighting, landscaping, and was coordinated with the adjacent transit center building and site plan.

Burlington University Place | Burlington, Vermont

Project Manager for the planning and design of improvements to University Place, a multimodal street serving the needs of people travelling through the University of Vermont's historic core. This area is oriented towards academic and administrative uses and is also UVM's primary interface with visitors and local community. Rather than focusing solely on accommodating vehicles—be they cars, bicycles, or buses—the team instead focused on the people who rely on this street to conduct their daily lives. Stantec considered how people engaged with the surroundings, accessed the multiple destinations of campus, and interacted with other people essential to campus operations, recreation, and vitality. We wanted to understand the needs of the people who use the street. Stantec conducted a series of online surveys, allowing us to connect with more stakeholders given the circumstances of the COVID-19 pandemic. Using this approach saved Stantec, the City, and UVM time associated with an in-person public meeting and allowed us to spend more time where it mattered most by reviewing and summarizing community feedback.

Main Street Revitalization | Waterbury, Vermont

This one-mile crumbling roadway required reconstruction, and the community considered this an ideal time to make transformative improvements, especially after being devastated by Tropical Storm Irene in 2011. Stantec's team was up for the challenge. Greg's team was called upon to work closely with VTrans staff and the Waterbury community to complete this project's engineering. Our team conducted significant public outreach, including multiple public meetings and one-on-one meetings with property owners to understand community needs and discuss project impacts. Multiple project stakeholders were engaged in addressing project logistics such as utility relocation routing, water, and sewer infrastructure impacts, historic resource constraints, hazardous materials mitigation, streetscape design including pedestrian scale lighting, landscaping, wayfinding, parking and business district impacts, and traffic maintenance during construction. A constructability review was completed to identify and communicate potential risks to the community during construction. This community outreach effort allowed Stantec to carefully craft plans and bid documents that prioritize minimizing construction impact to businesses, residents, pedestrians, motorists, and the community. The result of this effort will be a transformative project with the support of the community and project stakeholders.



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.



Jared Grigas, PE

Assignment Manager

YEARS WITH STANTEC

4

EDUCATION

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

REGISTRATIONS

Registered Professional Engineer #018.0122933, State of Vermont

Jared has over 10 years of bridge design experience. His experience includes structural bridge design, load rating, and construction inspection for bridges throughout Vermont and New Hampshire. Prior to joining the team at Stantec, Jared worked at the Vermont Agency of Transportation for six years in the Accelerated Bridge Program. Jared has extensive experience with accelerated bridge construction design, methods, and practices for both steel and prestressed concrete structures. His experience with accelerated bridge construction can help meet the needs of the community while reducing the project costs and impacts to the public.

RELEVANT EXPERIENCE

VTrans Cavendish Town Highway 1 over the Black River* | Cavendish, Vermont

Project Engineer responsible for the design of bridge No. 58 over the Black River in Cavendish, Vermont. The proposed structure was a single span steel plate girder bridge on integral abutments with historic bridge railing. The existing structure was located in historic Proctorsville Village with an adjacent stone retaining wall along with water and sewer lines located on the bridge. Directional drilling of the water and sewer lines were used to minimize constructions costs and impacts to the adjacent historic properties.

VTrans FAS 0177 over the West Branch Ompompanoosuc River* | Strafford, Vermont

Project Engineer responsible for the design of Bridge No. 29 over the Ompompanoosuc River in Strafford, Vermont. The proposed structure was a single span integral abutment bridge using prefabricated bridge units. In order to minimize impacts to the traveling public, the project utilized a mix of precast and cast-in-place concrete components to help reduce overall project costs while minimizing the impacts to the traveling public during a 28-day road closure.

VTrans Clarendon Town Highway 3 over the Clarendon River* | Clarendon, Vermont

Project Engineer responsible for the design of Bridge No. 11 over the Clarendon River in Clarendon, Vermont. The proposed structure was a single span integral abutment bridge using a precast superstructure option. In order to minimize project impacts, the project utilized accelerated bridge construction techniques during a 28-day road closure. A prestressed concrete NEXT Beam and Prefabricated Bridge Unit structures were designed for the project and set up as a bid alternative to help reduce overall project costs.

Project Management Services for VTrans Rail and Aviation Bureau | Barre, Vermont

Managed rail projects on behalf of the Vermont Agency of Transportation, Rail and Aviation Bureau. Projects ranged from bridge rehabilitations to rail-highway crossings and train platforms. Worked with stakeholders including FHWA, FRA, Amtrak, the operating railroads, and local municipalities to deliver projects at various stages of design.

VTrans Westminster I-91 Bridges 21N & 21S over the Saxtons River and VT 121 | Westminster, Vermont

Project Manager responsible for managing construction submittals and the design of steel repairs and new pier caps for Interstates Bridges 21N & 21S. The project consisted of a deck replacement on the existing beams, utilizing link slabs to reduce the number of expansion joints. Repairs were made to the substructures utilizing galvanic anodes and fiber-reinforced polymer strengthening.

* denotes projects completed with other firms



Justin Rabidoux

Assignment Manager

Justin has over 26 years experience in leading local government projects across all sectors. Projects have included wastewater treatment plants, wastewater collection and conveyance systems, intersection design and traffic signal timing and coordination plans, water and stormwater utility designs, and resident engineer and owner's representative for large-scale municipal transportation, utility and facility construction projects. Justin has managed several TIF-funded projects and has extensive experience in all aspects of Tax Increment Financing regulations and legislation. Design work has included bicycle and pedestrian facilities; roadway striping and signage plans; traffic plans and work zone safety audits; and general plan production. He has managed several projects with elements of highway and culvert design, right-of-way acquisitions including necessity and compensation processes in accordance with the Uniform Relocation Act, utility design and coordination, materials sampling and testing; and permitting and required coordination between multiple agencies.

YEARS WITH STANTEC

1

EDUCATION

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

RELEVANT EXPERIENCE

US 2 / I-89 Exit 14 Improvements Design | South Burlington, Vermont

Municipal Project Manager for the final design for the construction of a third eastbound lane of US Route 2, an urban arterial with over 40,000 vehicles per day, from the Sheraton Staples intersection to the I-89 southbound on-ramp. Project elements include utility relocations, stormwater treatment, interconnected and coordinated signal system, traffic control for highway widening, decorative street lighting, and landscaping. The project involved NEPA documentation, contract plans, construction cost estimates, Right-of-Way Compensation and Necessity Hearings and permitting meeting VTrans LTF procedures. Project elements included "Complete streets" approach with pedestrian, bicycle, and transit facilities.

US 2 / I-89 Exit 14 Improvements Scoping | South Burlington, Vermont

Municipal Project Manager for the scoping of this \$3.0 million project along US Route 2 at I-89 Exit 14. The purpose was to improve safety and capacity, and accommodate pedestrians and bicycles. Responsibilities included meeting with stakeholders, facilitating three public meetings to gather public input, alternatives analysis, and summarizing all information into a scoping report.

Southern Connector / Champlain Parkway | Burlington, Vermont

Municipal Project Manager for this \$30 million, two-mile urban highway construction linking to Burlington's Central Business district. Services included stormwater treatment design, stormwater collection system design and municipal utility replacement, street lighting and streetscape designs, and a revised supplemental environmental impact statement (EIS) including three Public Hearings, ACT 250 permit, and stormwater permits.

South Burlington Market Street Reconstruction | South Burlington, Vermont

Municipal Project Manager for a \$10 million reconstruction project of South Burlington's Market Street, the central roadway within its new City Center. Project included all new roadway down to subsurface, separated bike lanes, landscaping, new sewer and water utilities, two stormwater treatment ponds, streetlights and revised traffic signal timing on adjacent roadways.

Municipal Facility Construction | Burlington, Stowe and South Burlington, Vermont

Municipal Project Manager on three large-scale municipal facility projects. A 60,000 square foot facility that houses Burlington's Public Works and Recreations Departments; a 17,500 square foot facility for Stowe's Police, Fire, Rescue and Mountain Rescue Departments; and a 50,000 square foot facility for South Burlington's Public Library and Administrative Offices.



Thad Luther, PE

Lead Engineer

YEARS WITH STANTEC

22

EDUCATION

Florida Advanced Work
Zone Traffic Control Course,
ATSSA, Brandon, Florida

AS - Civil Engineering,
Vermont Technical College,
Randolph, Vermont

BS - Civil Engineering,
University of Vermont,
Burlington, Vermont

REGISTRATIONS

Professional Engineer
#8281, State of Vermont,
7/31/2010

Thad has served as a project engineer and manager for various transportation-related projects for over 24 years. His current focus is on integrating Bentley OpenRoads Designer (ORD) into Stantec’s workflow for transportation project designs. Thad is also on the Vermont Agency of Transportation (VTrans) ORD workspace development team. VTrans retained Stantec to complete a “functional” ORD workspace. VTrans and its consultants are using this functional workspace across Vermont on all new design projects. Thad’s roadway experience in traffic engineering, signal design, highway geometrics, site work, and aviation services allows him to creatively apply OpenRoads technology to varied aspects of the design process. His roadway experience includes updating existing intersections, the final design of limited access facilities, award-winning rural highway upgrades, and the completion of planning studies for future roadway expansions. His experience includes neighborhood enhancement projects that utilize context-sensitive design to satisfy multiple stakeholders. Elements of these enhancement projects include roundabouts, traffic calming, sidewalks, and new drainage facilities. Thad combines technical know-how with the ability to facilitate communication between clients, co-workers, and the public to complete projects.

RELEVANT EXPERIENCE

VTrans Colchester Diverging Diamond Interchange Renderings | Colchester, Vermont

Project Engineer on this project addressing traffic congestion and safety concerns at the I-89 Exit 16 interchange in Colchester, Vermont. Stantec created realistic renderings and created multiple drive-through and flyover videos for the new interchange as well as created a video game-like driving simulator. VTrans was able to use these simulations and renderings in their public outreach educational program that will provide a level of comfort to the public by allowing them to “see” and “use” the DDI.

Manchester Roundabout | Town of Manchester | Manchester, Vermont,

Project Engineer responsible for geometric layout, final grading, coordination between design disciplines and quality control for this highway/bridge project located in Manchester Center, Vermont. The project involves construction of two roundabouts, roadway reconstruction, widening of an existing stone arch bridge, and sidewalk/curb reconstruction. The project also includes replacement of storm drains, water lines, and sewer lines. Services included design, permitting, utility coordination, ROW, and assistance during bidding/construction.

Burlington Edmunds School Mid-Block Crossing | Burlington, Vermont

Project Manager responsible for overseeing design of this mid-block crossing. Design included bulb-outs, signing, striping and the addition of Rectangular Rapid Flashing Beacons. Presented project at public alternatives presentation meeting and worked directly with client’s project manager.

VTrans - Bristol 116 Intersection Upgrade | Bristol, Vermont

Project Manager responsible for design services for the improvements to the VT116 / North Street / South Street intersection in the center of Bristol, Vermont. Stantec worked with the Town and VTrans to design an actuated traffic signal system, improved intersection geometry with bulb-outs, decorative intersection street lighting and landscaping. The project improved safety for motorists, pedestrians and bicyclists and enhanced the aesthetics of downtown Bristol.

Lamplite Acres Green Streets Improvements | Williston, Vermont

Project Engineer for green infrastructure improvements in the Lamplite Acres neighborhood. Stantec worked with a local steering committee to evaluate alternatives and make recommendations for mitigating existing stormwater issues through low-impact development and green infrastructure improvements. Stantec prepared cost estimates and care/maintenance recommendations for the improvements. The Town unanimously accepted the recommended improvements and constructed a small scale pilot project with their own forces using engineering plans developed by Stantec.



Rick Bryant, PE

Assignment Manager

YEARS WITH STANTEC

10

EDUCATION

Bachelor of Science - Management, Massachusetts Institute of Technology, Cambridge, Massachusetts

Bachelor of Science - Civil Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts

Masters of Science - Civil Engineering, University of California at Berkeley, Berkeley, California

REGISTRATIONS

Registered Engineer #36532, Commonwealth of Massachusetts

Registered Engineer #9004, State of Vermont

MEMBERSHIPS

Instructor for PE Refresher Course, Boston Society of Civil Engineers Section

Member, Institute of Transportation Engineers

Rick is a Senior Associate with more than 40 years of consulting experience in New England. He is a transportation planner and traffic operations specialist with an extensive background in planning, designing, and permitting public-sector projects. Richard has developed a broad knowledge of state and local permitting regulations and has established strong working relationships with state highway and environmental permitting agencies. He is also an experienced public speaker who can effectively present transportation plans and projects at public hearings and other forums.

RELEVANT EXPERIENCE

Exit 14 Area Signal Systems | Burlington and South Burlington, Vermont

Project Manager for a study commissioned by the CCRPC to evaluate traffic signal systems in the vicinity of the I-89/Williston Road (Exit 14) interchange. Thirteen locations on Williston Road and Dorset Street were considered. The equipment assessment identified certain existing deficiencies, principally with respect to pedestrian accommodations, that were recommended for immediate mitigation. Longer range plans for system equipment and communications upgrades total \$1.8 million value. The implementation budget helped the two cities plan for future upgrades.

Marshall Avenue Traffic Signal Assessment | Williston , Vermont

Project Manager for a study of four signalized intersections along Marshall Avenue between Trader Lane and South Brownell Road. Given the advanced age of the signal systems, the Chittenden County Regional Planning Commission (CCRPC) funded this study at the request of the Town to assess the condition and adequacy of the existing systems and to assist in developing a budget for capital improvements. Findings and recommendations included a prioritized list of short-term and long-term signal improvements.

Waterbury Village Parking Study | Waterbury, Vermont

Project Manager for a study aimed at assessing parking demands and developing a strategy to a vibrant village center. Concerned that the economic resurgence realizes since the devastation caused by tropical storm Irene flooded Waterbury has caused parking demand to outstrip parking supply, the village assembled a volunteer Parking Committee to assess conditions and make recommendations. Stantec worked with the volunteers to collect field data for over 350 parking spaces and document current land use conditions. Stantec compiled and analyzed the data to draw conclusions regarding existing parking utilization and opportunities to support future growth. Stantec helped formulate proposals to best manage the existing parking supply rather than construct costly new parking facilities.

Industrial Avenue Corridor Study | Williston, Vermont

For the Chittenden County Regional Planning Commission managed a corridor study for a redeveloping industrial district in Williston. Considered the multimodal transportation impacts of an ongoing transition from low-traffic generating industrial uses to high-traffic generating office and service uses. Developed localized trip generation rates that were applied to assumed future land use changes. Recommended the expansion of pedestrian and bicycle facilities and certain intersection modifications to add capacity.

Burlington Design Vehicle Guidance | Burlington, Vermont

Project Manager working for the City of Burlington Department of Public Works in the development of a design guide for intersection reconstruction. The City looks to create more compact intersections that are safer for pedestrians when reconstructing roadways. However, the desire for more pedestrian-friendly intersections must be balanced with the need to accommodate commercial vehicles that support a robust downtown. The guide helps roadway design engineers select the appropriate design vehicle based on traffic demands and emergency vehicle access requirements.



Michael Fowler,

PE

Assignment Manager

YEARS WITH STANTEC

5

EDUCATION

Associate in Civil Engineering Technology, Vermont Technical College, Randolph Center, Vermont

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

REGISTRATIONS

Professional Engineer
#018-0007892, State of Vermont

Michael is a senior project manager and is responsible for managing projects and preparing preliminary, final, and contract design plans for various transportation projects. This work includes field reviews, developing horizontal and vertical alignment, structural pavement design, drainage design, quantity computations, and cost estimating. He has an excellent working knowledge of CADD software, including MicroStation and InRoads, and extensive experience with project scheduling and cost estimation software.

Spending nearly three decades at the Vermont Agency of Transportation (VTrans), Mr. Fowler has engineered hundreds of highway infrastructure assets to improve mobility and connectivity for communities throughout the Green Mountain State. For the last 13 years, he utilized modern asset management techniques and principles to determine project selection and scheduling for the VTrans' 3-year paving program. In that capacity, he performed, guided, and approved all designs involving various treatments. He also had to plan—and prepare—budgets for the paving program, helping to manage over \$500 million in value from start to finish.

Mr. Fowler's years in roadway and bridge design have given him a broad knowledge of the various components of the highway system network. This well-rounded experience generated a strong understanding of the philosophy behind sound infrastructure asset management. It resulted in Mr. Fowler becoming the lead on project cost estimation support for VTrans.

RELEVANT EXPERIENCE

Waterbury VT 100 Water Main | Waterbury, Vermont

Project Manager for the design of a 3600 ft. extension to the municipal water distribution line along VT route 100. Project demands significant coordination among numerous State agencies and multiple property owners. The length of the project falls also within the limits of a major VTrans roadway rehabilitation adding further complexity. Potential alignments for the watermain are 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. Permits are required from the Vermont Agency of Transportation, the Vermont Agency of Natural Resources, and the U.S. Army Corps of Engineers. Project is planned for construction in the Fall of 2018 and is currently on schedule and within budget.

Chester-Springfield-Rockingham-Windsor STP 2952(1) | Chester-Springfield-Rockingham-Windsor , Vermont

Project Manager and lead VTrans design engineer for this multi-town \$10 million project funded through the VTrans Paving Program and developed to treat 11.2 miles of Class 1 town highways within the respective municipalities. Project involved grinding/milling of the existing pavement, resurfacing, new pavement markings, guardrail, signs, sidewalk and cross walk upgrades for ADA compliance, drainage improvements, traffic signal upgrades, and the reconstruction of a significant at grade railroad/highway crossing in Chester. While the focus of the scope centered on the highway, much initiative involved the assessment of pedestrian facilities and their interaction with the highway, all as a means of seeking improvements where possible within the boundaries of a VTrans paving project. Project demanded rigorous coordination amongst the exceptional number of stakeholders throughout project development. The project spanned 2 construction seasons and was completed in 2016 on time and within budget.

Waterbury Elm Street Sewer Main | Waterbury, Vermont

Project Manager for the design of a new 375 ft. sewer main line along the length of Elm Street. The strategic replacement of an existing line provides the opportunity for a late stage design improvement on a more significant upcoming large-scale replacement of the municipal sewer main along Main Street. The Elm Street segment alignment had to fit precisely within a matrix of various other existing and proposed underground utilities demanding multiple different required offset/shy distances.



Gary Santy, PE

Assignment Manager

YEARS WITH STANTEC

44

EDUCATION

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

REGISTRATIONS

Professional Engineer #11152, State of New Hampshire

Professional Engineer #7563, State of Vermont

MEMBERSHIPS

President, American Council of Engineering Companies (Vermont), 2016-2018

President, Vermont Society of Engineers, 2018-2019

Member, New Hampshire Good Roads Association

Member, Vermont Technical College, Civil/Environmental Engineering Technology Advisory Committee

Gary has over 44 years of experience with Stantec in transportation design, traffic (vehicular, bicycle, and pedestrian) management, construction engineering, public participation, environmental documentation, and permitting. He has worked closely with the Vermont Agency of Transportation on dozens of roadway projects, including a high-profile project to create a new limited access bypass (VT Route 279) of US Route 7 and VT Route 9 around Bennington, Vermont. As the senior project manager for the \$70-million effort, Gary coordinated with five other consultant firms to design and construct the bypass and manage all aspects of its design for five construction contracts, including drainage, hydraulics, erosion control, lighting, and traffic signals, right-of-way, utility coordination, and construction engineering.

Gary has provided similar design, management, and construction administration services for various other projects for VTrans, New Hampshire DOT, Maine DOT, and MassDOT. These projects range from highway and park-and-ride facility design to safety and intersection improvement projects and bridge replacements. His experience in limited access facility design, in addition to Bennington Route 279, includes NH Route 101, which extends 18 miles with over 20 bridges, and the Hillsborough Bypass, which extends over 4 miles with five bridges.

As Operations Manager for the New England Transportation Business Center, Gary supervises design teams, provides quality control and independent reviews, advises staff on technical, administrative, and QA/QC procedures, and supports the business, operational performance, and financial management for the business center.

RELEVANT EXPERIENCE

Waterbury Roundabout | Waterbury, Vermont

Senior Project Manager responsible for managing the design, permitting, contract document development and construction related engineering for the US Route 2 and VT Route 100 intersection. 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

Waterbury Park & Ride | Waterbury, Vermont

Senior Project Manager with responsibility for preliminary and final design, contract plans and construction assistance for this 80-space lighted, paved, and landscaped Park-and-ride facility. Unique aspects of this project include the incorporation of a retaining wall to increase available spaces by 20%. The scoping process included public meetings, conceptual plan development, and environmental resource documentation effort to obtain a categorical exclusion.

Barre Town Bike Path Construction Inspection | Barre, Vermont

Project Manager responsible for the construction of a new transportation path from the Barre Town Elementary School on Websterville Road and extending 1.4 miles to Main Street in Graniteville. The project involved 700 cubic yards of Gabion retaining wall, two bridges involving reused bridge materials, and two pre-cast concrete culverts.

Right-of-Way Projects | Vermont, New Hampshire and Maine

Senior Right-of-Way (ROW) Specialist responsible for the development of ROW plans for use in acquiring property rights for transportation projects. This includes property owner research, title abstracting to confirm clear title, confirming existing property information on plans, establishing take lines and rights/easements on plans and details for use in negotiations with affected owners for acquisition purposes. Representative projects include: VT Route 201, Troy, VT: four miles of roadway reconstruction included 45 parcels; Dorset Street, So. Burlington, VT: one mile of urban street reconstruction included 40 parcels; Williston Road (US Route 2), So. Burlington, VT: 0.5 miles of urban street reconstruction; US Route 201, Moscow, ME: Four miles of roadway reconstruction included 35 parcels ;NH Route 101, Auburn-Stratham, NH: 13 miles of limited access highway included over 100 parcels; Highgate, VT: Avigation easement project for runway expansion, included 24 parcels.



Greg Edwards,

PE, ENV SP

Assignment Manager

YEARS WITH STANTEC

34

EDUCATION

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

REGISTRATIONS

Envision™ Sustainability Professional (ENV SP), Institute for Sustainable Infrastructure, 01/03/2016

Professional Engineer #5842, State of Vermont

Professional Engineer #7247, State of Maine

Professional Engineer #6765, State of New Hampshire

MEMBERSHIPS

Past Board Member and Past President, American Council of Engineering Companies (Vermont)

Past President & Board Member, Society of Engineers, State of Vermont

Member, Institute of Transportation Engineers

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.