

February 9, 2023 | Technical Proposal

Municipal Assistance Section of the Agency of Transportation (VTrans)

VTrans At-The-Ready (ATR) Consultant Engineering Services for Construction Inspection 2023





Contents

A. Cover Letter	
B. General Firm Information.....	1
C. Organizational Chart.....	4
D. Availability Chart.....	5
E. Technical Capability.....	6
F. Resumes	



February 9, 2023

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

Re: **Vermont Agency of Transportation—At-the-Ready Consultant Engineering Services for Municipalities 2023 Construction Inspection Services**

Dear Nydia and members of the Selection Committee:

VHB is pleased to present our proposal in response to the Agency's Request for Qualifications for At-the-Ready **Construction Inspection Services**. Our proven dedication to VTrans and its municipal transportation partners spans over 30 years. We understand the challenges facing Vermont and its communities and are firmly committed to helping achieve the vision of a safer, more efficient, and more connected transportation network. We believe in making meaningful contributions to our communities and our state by providing a balanced relationship between economic growth and environmental stewardship. We are committed to quality and at 1,800-strong, we provide both the local connection and depth of resources to meet the full needs of the VTrans Municipal Assistance Section (MAS).

We are delighted to have the opportunity to present our proposal and we look forward to continuing working together with Vermont municipalities and VTrans on projects that make our communities even better places to live.

Sincerely,

VHB

A handwritten signature in black ink that reads "Evan P. Detrick".

Evan Detrick, PE
Contract Manager
Director of Transportation
edetrick@vhb.com

A handwritten signature in blue ink that reads "David Saladino".

David Saladino, PE
Principal-in-Charge
Managing Director
dsaladino@vhb.com

Our team is dedicated to our clients and the projects that improve mobility, enhance communities, and make Vermont a better place to live.

Engineers | Scientists | Planners | Designers

40 IDX Drive, Building 100, Suite 200, South Burlington, VT 05403

P 802.497.6100

F 802.495.5130

www.vhb.com

B. General Firm Information



MAS Understanding

The Vermont Agency of Transportation (VTrans) Municipal Assistance Section (MAS) was established in the 1990s as the Local Transportation Facilities section of the Program Development Division. Since its inception, its mission has been to work with and support municipalities and other organizations (the project sponsors) to implement transportation projects that improve its communities. This work includes a wide variety of projects, including bicycle and pedestrian facilities, roadway and intersection improvements, bridge and culvert replacements, stormwater improvements, salt sheds, and municipal park and ride facilities.

Projects advanced through the MAS are funded using a variety of sources, often including federal monies such as Transportation Alternatives grants, along with local matching funds, and occasionally state funds such as the Town Highway and Town Structures Grant Programs. With the use of federal and state funds, the projects are administered through VTrans and must be developed following the VTrans project development process outlined in the MAS's Local Projects Guidebook for Locally Managed Projects. Under this process, the municipality manages and develops the project, and VTrans administers the funding and verifies the established process is being followed.

Although VTrans helps the municipality with many aspects of the project development, it is ultimately the municipality's responsibility to advance the project. To do so, municipalities rely on the help of consultants.

Consultants can assist the municipalities in three different ways:

- » Manage the project on behalf of the municipality as the Municipal Project Manager (MPM);
- » Serve as the designer responsible for developing plans and specifications or preparing scoping reports;
- » Provide construction administration and inspection services.

To retain the services of a consultant, municipalities have traditionally solicited proposals or statements of qualifications to identify consultants that are interested in helping them with their project, and to determine the best qualified firm to do so. This process can be burdensome on some municipalities, especially those with small staffs that are not familiar with the solicitation process. To streamline and simplify the process, the VTrans MAS developed a request for qualifications to identify a list of consultants that can provide services on an "At the Ready" basis. VTrans then develops three lists of consultants—one for Municipal Project Management, one for Design, and one for Construction Inspection that would essentially pre-qualify firms to provide these services. Once the lists of consultants are established, municipalities are able to pick the firm they feel is most qualified to assist them (after reviewing the qualifications of at least three consultants) and directly negotiate a reasonable scope and fee. Municipalities also still have the option to issue their own solicitations if they prefer. However, by pre-qualifying a pool of consultants, the MAS aims to make the process easier for the municipalities, and condense overall project schedules by eliminating the solicitation effort from the process.

VHB is pleased to be teaming with subconsultant S.W. Cole (SWC) to respond to VTrans' RFQ to provide construction inspection services to municipalities and other project sponsors across the State. Our Team has a long history of delivering multi-faceted transportation services throughout Vermont. Through our extensive experience on numerous VTrans retainer contracts and individual local projects, we are ideally suited to provide construction services under this retainer. Our Vermont team is small enough to provide caring and responsive services, and with the support of many professionals across our companies, we have the resources to tackle the most challenging of assignments. We look forward to

working with VTrans and municipalities for the betterment of Vermont's transportation infrastructure. The VHB staff members dedicated to providing Construction Phase services under this retainer have provided these services to municipalities across the State, and/or have served as consultants on pedestrian facilities, bridge improvements, culverts and stormwater management projects. **Our Construction Administrators and Inspectors have a deep understanding of the VTrans Specifications for Construction and MAS's process and procedures, and we are committed to helping municipalities advance their projects through construction to completion.**

Firm Overview

Since 1979, VHB has partnered with public and private sector clients to provide high-quality transportation and stormwater engineering services through an integrated team approach to collaboration. VHB has continued to grow and hone a diverse workforce of 1,800 engineers, designers, scientists, and planners that deliver personalized service and bring value, responsiveness, and excellence to municipalities. We pride ourselves on our ability to guide our clients from initiation to completion of multi-disciplined, challenging, and important transportation projects of all sizes.

VHB Contact: Evan Detrick, PE
edetrick@VHB.com | 802.497.6179
40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403

VHB Vermont Managing Director: David Saladino, PE

Collaboration is a focal point of our approach to projects: VHB professionals routinely work together across practice areas to provide holistic project solutions. We emphasize truly listening to and understanding our client's unique needs while working collaboratively in a partnership. We also routinely incorporate input from stakeholders into our proposed solutions early in each project's development. This approach has helped us develop our strong track record of delivering comprehensive, forward-thinking, and well-supported projects in a timely and cost-effective manner. Evidence of this success can be found in the industry recognition VHB projects receive—and the number of repeat clients we are happy to serve.

The VHB Vermont Difference

VHB is different from other firms and uniquely prepared and suited to assist municipalities with At the Ready services in a comprehensive way because we offer some many services right from our Vermont offices. VHB offers a broad range of services through our Vermont staff, and we are fully capable to provide Design services, Construction Inspection services, and Municipal Project Management services to municipalities and other local sponsors under this retainer. We have provided similar services on dozens of projects for municipalities across Vermont.

VHB's services under this retainer will be provided out of our three Vermont offices. We offer a staff of nearly 100 professionals across Vermont who have experience in the many disciplines that may be required for local projects. Our staff in Vermont includes:

- » Transportation and Traffic Engineers
- » Structural Engineers
- » Rail Engineers
- » Planners
- » Stormwater Engineers
- » Landscape Architects
- » Public Relations Specialists
- » Professional Land Surveyors
- » Boundary and Right of Way Specialists
- » Geographic Information System (GIS) Specialists
- » Natural Resource and Permitting Specialists
- » National Environmental Policy Act (NEPA) Specialists
- » Historic Preservationists
- » Contaminated Soils Scientists
- » Construction Administrators and Inspectors

Our Vermont offices provide the full range of services anticipated under nearly every MAS project. We take great pride in helping VTrans and municipalities improve the already great quality of life in Vermont. Our local presence, knowledge of VTrans' practices and expectations, and depth of resources allows us to provide personal service, value, and responsiveness every time.



For the planning, design, permitting and construction of the Lamoille Valley Rail Trail, VHB utilized nearly all of the skills listed on the previous page.

We've put together a team in this proposal that reflects VHB's continued commitment to improve mobility, enhance Vermont communities, and balance development and infrastructure needs with environmental stewardship. While every project does not require this deep pool of talent, the resources are there when needed and our Vermont team can continue to call upon these key people as they have in the past.

Subconsultants

S.W. Cole Engineering, Inc.



S.W. Cole Inc.'s construction materials testing division has been providing knowledgeable, friendly

service since their founding in 1979. Their more than 50 technicians are respectful, dependable, experienced and knowledgeable. Many hold advanced certifications from top industry associations such as the Northeast Transportation Technician Certification Program (NETTCP), the American Concrete Institute (ACI), the International Code Council (ICC) and the National Institute for Certifications in Engineering Technologies (NICET). S.W. Cole's eight offices located in strategic cities and towns across northern New England allow them to service projects efficiently, and the flexibility to schedule field testing services in an emergency or last-minute situation—saving clients time and money. S.W. Cole is a governed by a group of long-term employee-owners who serve on a Board of Directors, including Robert E. Chaput, Jr. PE, President and Chief Executive Officer, and Alan Brown, Construction Services Manager & Office Manager—Vermont.

Contact: Alan I. Brown | S. W. Cole Engineering, Inc. | 226 Holiday Drive, Ste. 4B | White River Junction, VT 05001 | 802.281.4559 | alan.brown@swcole.com

Team Accessibility

Our local presence throughout Vermont allows us to take a hands-on approach to construction inspection.

We understand that inspection services often require immediate action. When issues arise in the field, it is necessary to resolve the issue quickly so that the contractor is not delayed (and potentially asking for additional compensation), or so that the safety of the public is maintained.

When providing services on behalf of clients our goal is to be as accessible as possible. Our team members pride themselves in being accessible for a client's needs day and night.

For any construction oversight project, VHB will provide a Construction Administrator (or Resident Engineer) as well as a field inspector that the municipality can reach out an any time. We understand that Selectboard members, Town Administrators/Managers, and other municipal personnel are sometimes called by residents expressing concerns with the construction project that the Town has undertaken. Often, the municipal official is looking to get answers addressed right away so they can let the resident know what the Town is doing about their situation. VHB understands the need to get back to constituents as quickly as possible and will respond to a municipal calls promptly.



Inspection of a drainage structure being installed as part of a sidewalk project in Castleton.

The Project Team

Our Organizational Chart shows the core team and key support staff that will work on this retainer contract. For the Construction Inspection services, VHB will be responsible to make certain that the project is constructed in accordance with the design plans and specifications, and will provide a Construction Administrator (or Resident Engineer) and a Construction Inspector (field representative) for each project. The staffing for the VHB team will be flexible, and we will always provide the right people for each individual project.

Under this retainer, **Contract Manager Evan Detrick, PE** will be the initial point of contact for VTrans and municipalities for all assignments. Depending on the specific project, Evan will recommend a VHB Project Manager/Construction Administrator in consultation with the municipality

and VTrans MAS Project Supervisor. The VHB Project Manager will be determined based on the best interests of the municipality, and will not be finalized until the municipality and VTrans are in agreement. **For every assignment, Evan will conduct regular check-ins with the VHB Project Manager to verify the project is moving along as expected and VHB’s services are meeting the expectations of VTrans and the client.** Additionally, Evan will be available as a resource to make sure that the VHB Project Manager has a firm understanding of the project development requirements, and has the resources they need to be effective. The VHB Project Manager/Construction Administrator will lead the project for VHB, and be supported by a VHB Construction Inspector with the appropriate experience for the project. Brief biographies of our key team members are shown in Section E.

C. Organizational Chart



Principal-in-Charge
David Saladino, PE



Contract Manager
Evan Detrick, PE ●



Technical Advisor
Wayne Symonds, PE ●

CONSTRUCTION INSPECTION

CONSTRUCTION INSPECTORS

- Rose O’Brien, EIT ● James Eyler ●
- Shayna Lillis ● Jason Keener, PE ●
- Nikki Mann Tanner Burt, PE ●

CONSTRUCTION ADMINISTRATORS

- Daniel M. Peck, PE ● Cierra Ford, PE ●
- Jeff Bachiochi, PE ● Kelly Barry, PE
- Branden Roberts, PE ●



SUPPORT

Rail Crossings

Scott Burbank, PE ●

Contaminated Soils

Kurt Muller, PE

Materials Testing

S.W. Cole

● Key Personnel

SUBCONSULTANT FIRMS

S.W. Cole



D. Availability Chart

The chart below indicates the average percentage of time each person has available to spend on projects under this retainer.

KEY PERSONNEL	NAME	ROLE	% AVAILABILITY FOR THIS CONTRACT
●	Evan Detrick, PE	Contract Manager	50%
	David Saladino, PE	Principal-in-Charge	10%
●	Wayne Symonds, PE	Technical Advisor	15%
●	Daniel M. Peck, PE	Construction Administrator	40%
●	Jeff Bachiochi, PE	Construction Administrator	50%
●	Branden Roberts, PE	Construction Administrator	50%
●	Tanner Burt, PE	Construction Inspector	25%
●	Cierra Ford, PE	Construction Administrator	50%
	Scott Burbank, PE	Rail Crossings	15%
●	Jason Keener, PE	Construction Inspector	25%
	Kelly Barry, PE	Construction Administrator	25%
●	Rose O'Brien, EIT	Construction Inspector	25%
●	Shayna Lillis	Construction Inspector	25%
	Nikki Mann	Construction Inspector	25%
●	James Eyler	Construction Inspector	25%
	Kurt Muller, PE	Contaminated Soils	15%

E. Technical Capability

Understanding

Construction is the most visible part of any project. It's when the sponsor and general public get to see the improvements being made, and there is a sense of accomplishment as the project is brought to fruition. While most contractors do a fine job during construction, municipalities need verification that their contractor is building their project as intended. It is the role of the Resident Engineer and Construction Inspector to verify that the contractor is adhering to the plans and specifications, and constructing the project properly.

VHB knows that for any project to be a success, it must progress smoothly and be compliant with design plans, specifications, procedures, and environmental permits/regulations from the start. Therefore, our team will undertake the following for all construction projects:

- » Review and have a working knowledge of the plans, specifications, estimates, and special provisions before the start of construction
- » Perform frequent or continuous inspection of the work
- » Conduct regularly scheduled construction progress meetings
- » Verify the construction is being completed in conformance with the contract plans and specifications
- » Prepare Daily Reports, calculate quantities, and complete a photo log showing progress
- » Provide timely, clear and concise feedback to the contractor
- » Provide materials inspection testing in accordance with the appropriate Inspection Level of the VTrans' Quality Assurance Program (QAP) and Materials Sampling Manual (MSM)
- » Calculate and verify the final quantities

- » Maintain communication with the MPM and coordinate with the Design Engineer, VTrans MAS Project Supervisor, and the contractor whenever needed
- » Provide written, weekly updates to the municipality, MPM, VTrans MAS Project Supervisor, and the contractor

Our Approach

The VTrans Construction Manual emphasizes that “usually more can be accomplished by positive persuasion than by the use of the full authority given to the Resident Engineer.” The VHB Team staff has established a solid track record of positive working relationships statewide with many municipalities, contractors, the public, utility companies and state and federal regulators alike.

VHB has a deep pool of engineers, construction administrators and inspectors, and we will assign those persons with the most relevant experience for each assignment. We will work with the VTrans Project Supervisor and municipality to identify the best team members for each project, and have them meet with VTrans and the municipality prior to the pre-construction meeting to discuss their experience and roles before construction begins.

On a recent project, VHB was hired to perform construction inspection for the rehabilitation of a 100 year-old bridge. We understood the rehabilitation may not go smoothly due to many unknown/unobservable components of the bridge. To minimize risk to the Town, VHB assigned an experienced bridge engineer as Construction Inspector. When problems were indeed discovered during the partial demolition, our inspector was able to quickly review the problem and work with the Town and designer to develop solutions and keep the project moving forward.

Once our team is on board, we will manage construction in a proactive way. We will keep the municipality and VTrans informed with routine updates and bring issues forward for discussion and resolution before they become problems. Our resident engineer will be involved with and knowledgeable of the construction status through frequent communication with our Construction Inspector. Our Inspectors will raise issues and concerns with the contractor immediately upon identification, and will coordinate with the public in a respectful and cordial way. Our goal is to be an advocate for the municipality to have construction proceed as smoothly and trouble-free as possible.

Role of the Resident Engineer

The Construction Administrator or Resident Engineer is the point of contact between all parties during construction and is ultimately responsible to verify that construction is completed in accordance with the contract documents. They supervise the Construction Inspector and provide engineering guidance, conduct routine site visits, and are available for field calls, as necessary. The Resident Engineer provides office support, reviews test reports and pay requisitions, as well as coordinates between the design engineer, VTrans MAS Project Supervisor, MPM and the contractor. The Resident Engineer is in contact with the Inspector on a daily basis and assists the Inspector with the daily clerical requirements, allowing the Inspector to focus on the construction activities. The Resident Engineer arranges for and leads the pre-construction meeting and the regular construction status meetings, convenes special meetings if necessary, and arranges for and leads the final inspection. Once the contractor has completed a minimum of 90% of the work, VHB will issue a Certificate of Substantial

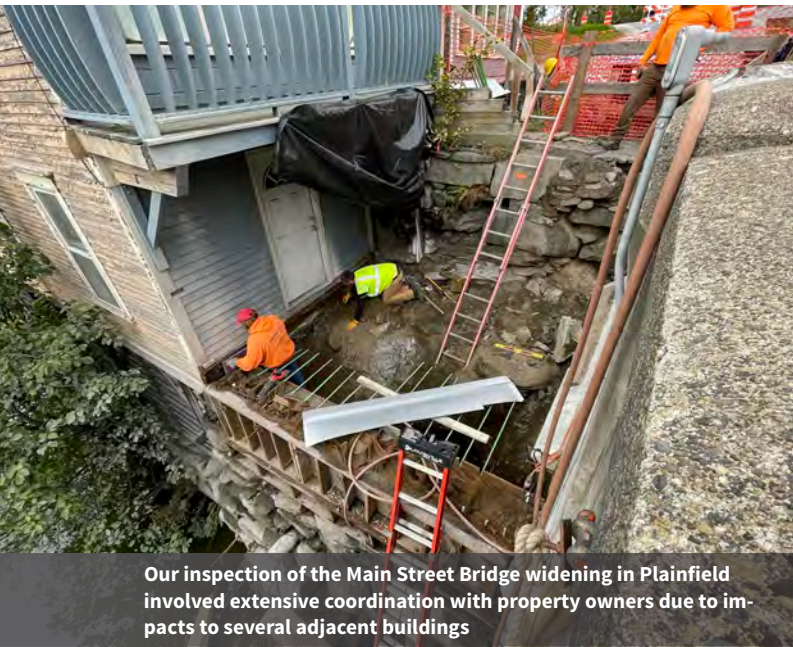
Completion to the contractor and schedule a final inspection. After the final inspection is complete, VHB will issue a punch list to the contractor for the completion of the project. When the contractor has completed the items on the punch list, VHB will issue a certification to the Town and the VTrans MAS Project Supervisor stating that the project was constructed as designed and in accordance with the appropriate and necessary construction revisions, in conformance with all the project specifications, and that construction fully complied with all necessary contract provisions.

Role of the Construction Inspector

The Construction Inspector will be the person with their “boots on the ground.” They are the first line of defense for the municipality to make sure the construction contractor is following the plans, and providing materials that meet the specifications. **The Inspector must be firm with the contractor, and immediately establish that they have the ultimate say in whether or not the work meets expectations.** The Inspector must be thoroughly familiar with the VTrans specifications and standards, what materials are to be used, how to assess their quality, and how they should be paid for. Our Construction Inspector will meet with the contractor each day prior to the commencement of work to go over the anticipated work, and at the conclusion of each day to verify the contractor’s plans for the following day.

The current practice on MAS projects is to have the municipality retain the services of a qualified firm to conduct material testing and sampling. This includes items such as performing concrete cylinder breaks to test the strength of Portland cement concrete; verifying the gradation of subbase





Our inspection of the Main Street Bridge widening in Plainfield involved extensive coordination with property owners due to impacts to several adjacent buildings

materials to make sure they have the proper blend of sands and gravels; and verifying the mix design of asphalt pavements to make sure they have enough, but not too much, bituminous material. This work is arranged by and coordinated through the Inspector. **As part of the construction phase services contract, the inspection firm will include a testing firm on their team, and the Inspector will make arrangements with the testing firm to be on-site whenever testing should be conducted, make sure the proper tests are being conducted, and then review the test results.** The Inspector will also conduct tests as materials are being placed, including verifying that the proper thickness is used for items such as concrete sidewalks and roadway pavements; and materials are being placed at the proper temperatures (asphalt must be within a certain temperature range and concrete can't be placed if it is too cold). The Inspector's responsibilities also include reviewing certifications provided the contractor and their suppliers that items such as pavement markings are comprised of the correct type of paint; signs have been fabricated with the correct type of reflective surface; and steel and iron products have been manufactured in the United States if "Buy America" provisions apply to the contract.

Another important role of the Inspector is to interface with affected property owners. Virtually all construction projects have some impacts to adjacent properties, and the Inspector is often the person that owners reach out to in order to ask questions or make complaints. The Inspector

must do whatever they can to answer questions and reasonably address property owner concerns. VHB Inspectors listen carefully and treat the owners with respect even when an owner is being particularly difficult. The Inspector must answer questions and resolve issues whenever possible, yet know when resolution is beyond their authority and recognize when it is necessary to elevate the discussion to the Resident Engineer or town officials. Keeping the public happy throughout construction is one of the best measures of a project's success. The VHB team understands this, and works proactively to keep owners informed by explaining the upcoming work, its schedule, and how it will affect the owner's property and access before the work occurs.

Pre-Construction Conference and Regular Construction Progress Meetings

Most projects benefit from regular progress meetings, which are normally held biweekly or monthly depending on schedule and progression of work.

Prior to getting started with the project, VHB will set-up a Pre-Construction Conference with the Town, MPM, VTrans MAS Project Supervisor and the contractor. At the Pre-Construction Conference, the roles and expectations along with the contact information for the attendees as well as the contractor's construction schedule will be discussed. In addition to these items, the following items will also be addressed:

- » Verify that the contractor has contacted Dig-Safe
- » Scheduling the regular construction status meetings, if required
- » Determine the procedure and "chain-of-command" for reporting any unusual occurrences and any accidents within the project limits
- » Set-up the procedure for submitting and issuing any modifications and/or changes to the plans by the contractor
- » Review the specific items requiring shop drawings and/or certificates and discuss how the shop drawing process will be administered
- » Discuss preparation of the contractor's progress payment estimates
- » Discuss the contractors requirements for traffic control for each phase of the project

The Resident Engineer will schedule and facilitate regular progress meetings, and the Construction Inspector will attend to provide a detailed update on the project status, review progress, describe the results of material testing, discuss any concerns regarding the contractor's work and how those concerns are being resolved, and identify any action items. These meetings are a good opportunity for the municipality and VTrans Project Supervisor to hear first-hand how the construction is progressing, ask questions, and verify that the Resident Engineer and Inspector are managing the project appropriately.

Frequently discussed topics normally include traffic control, dust mitigation, site soil tracking, construction signing, permitting criteria, property owner issues, erosion and sediment control, material sources and waste, materials testing and results, borrow and staging areas, coordination with state agencies, utility coordination, Requests for Information, updated schedule, pay requisitions, and other topics as required.

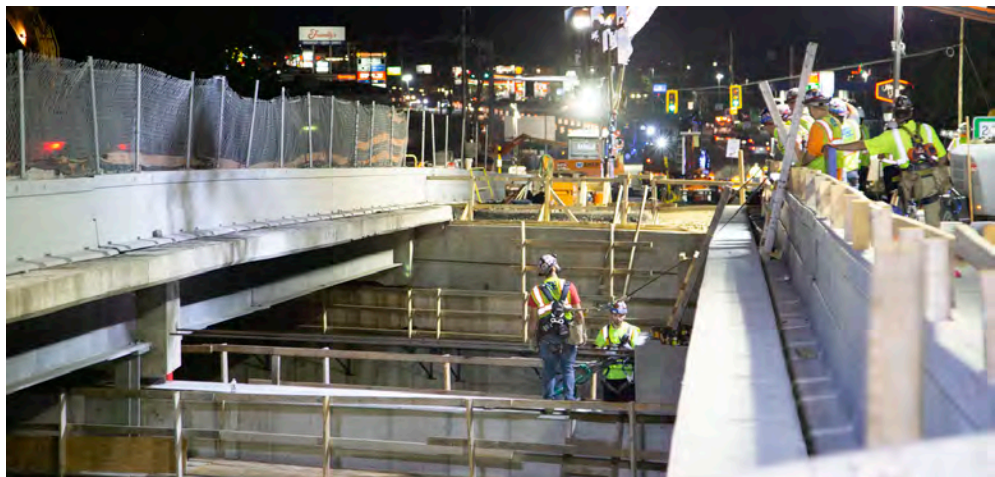
Certifications

Construction Inspection services include reviewing material certifications provided by the construction contractor and their suppliers, and conducting material testing in accordance with the appropriate Inspection Level of the VTrans' Quality Assurance Program (QAP) and Materials Sampling Manual (MSM). The certifications typically include pavement marking and paint materials, traffic signs and posts, iron castings for detectable warning surfaces, concrete curb and drainage structures, reinforcing steel, etc. Each certification must be reviewed to check that it is fully completed and signed,



Field verification that a temporary traffic was properly installed on US Route 2 before allowing the contractor to mobilize their construction crews.

and to verify it is for the appropriate item being used in the construction. Material testing is performed on the concrete that sidewalks are made from to make certain it meets the strength requirements specified by the designer, on the subbase stone materials to assure they meet the gradation requirements outlined in the project specifications, and to make sure that base materials are compacted properly. While VHB doesn't perform material testing ourselves, we partner with firms such as S.W. Cole who perform the material testing for our projects as directed by the VHB construction inspector. Once the testing is done and laboratory work completed, results are reported back to our inspector so they can be reviewed for conformance to the contract.



Project Experience

VHB's Vermont staff was built around our relationships with local municipalities and VTrans. We are excited to continue our partnerships throughout the state and look forward to the opportunity to provide innovative, high quality transportation infrastructure projects in the future.

Providing consulting services to municipalities, and to state and federal agencies, is a core purpose of our company and a key focus of our Vermont staff. Our overall approach to the management of this contract is informed by our successful experience on a wide range of similar on-call assignments.

Sidewalk Reconstruction | Castleton, VT



VHB provided Construction Oversight and Inspection Services for this project consisting of approximately 3,800 linear feet of concrete sidewalk along the north side of VT Route 4A, starting at the intersection of Drake Road and running westerly to the Hydeville Post Office. The project also included catch basins, stormwater piping, bituminous concrete driveway ramps, topsoil placement and seeding. Duties included monitoring site safety and EPSC measures, providing engineering field support and providing clarifications to the contractor and Town, reviewing submittals, certifications, and preparing change orders, maintaining project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Contact: Michael Jones, Town Manager
802.468.5319 Ext. 203 | manager@castletonvt.org

Oak Creek Village Culvert Replacement | South Burlington, VT



VHB provided construction management and resident engineering/field engineering and design engineering for the installation of two precast box culverts in a residential development in South Burlington, VT. Each culvert required a temporary stream by-pass system, the relocation of existing underground telecommunication and electrical utilities, waterlines, and sewer lines, replacement of curb and sidewalk, new catch basins, paving and landscaping. VHB provided oversight of daily operations to verify compliance with contract plans and special provisions, and Vermont Agency of Transportation Standard Construction Specifications. Services also included monitoring of erosion control protection measures, providing design engineering for a 320 linear foot long subsurface storm pipe extension change order, engineering field support and clarifications to the contractor and the City of South Burlington. VHB reviewed submittals, material certifications, prepared change orders, conducted pressure testing on new water and sewer lines, and reviewed payment applications to ensure all quantities were accurately documented and calculated. VHB personnel facilitated monthly meetings with the contractor, the City, and VTrans, and managed and coordinated materials testing services to ensure all testing requirements were met. Project records such as photo documentation, submittals and material certifications, material testing and inspection reports, payroll certifications and Davis Bacon wage rate interviews were maintained by VHB and provided to the City following completion of the project.

Contact: Tom Dipietro, Director of Public Works
802.658.7961 extension 6101 | tdipietro@southburlingtonvt.gov



Commerce Square | South Burlington, VT

For the City of South Burlington, VHB performed planning, grant funding support, design, permitting, cost estimating, preparation of construction documents, and construction management and resident engineering services for the retrofit stormwater treatment system located on the lands of the Commerce Square Shopping Center along Williston Road. VHB's services on the project involved coordination with the private land owner, modeling of existing drainage areas, assessment of retrofit alternatives, design of drainage system diversion structures, and design and permitting upgrades associated with a new swirl separator and enlarged detention pond to intercept runoff from approximately 95.7 acres of developed land with 42 acres of impervious area draining to the stormwater-impaired Tributary Three of Potash Brook. Construction began in summer of 2017 and was completed in 2018. VHB provided construction inspection throughout the construction period.

Contact: Tom Dipietro, Director of Public Works

802.658.7961 extension 6101 | tdipietro@southburlingtonvt.gov

Kelley Stand Road Reconstruction | Sunderland, Vermont



For this project VHB provided project scoping, design services, and full construction oversight for reconstruction of approximately four miles of Kelley Stand Road (Forest Highway 6) and reconstruction along sections of Roaring Branch stream channel located in Sunderland, Vermont. The project scope included reconstruction of 32 damaged sites along to the road, including two bridges, multiple roadway sections, and channel reconstruction.

Contact: Mark Hyde

802.375.6106 | mhyde@sunderlandvt.org

Plainfield Main Street Bridge Rehabilitation



VHB provided Construction Oversight and Inspection Services for this project consisting of widening of the existing abutments to accommodate a sidewalk on the west side of the bridge. The Main Street bridge was nearly 100 years old and the existing abutments were comprised of masonry and dry-stacked stones, with some concrete. The design plans showed widening of the abutments with new concrete cantilever walls; however, as construction unfolded it became clear that the design did not match the existing conditions and could not be performed as intended (due to hidden components). Fortunately for the Town, VHB had assigned a structural engineer to provided construction oversight, and we were able to help the Town work through the complications presented by the unforeseen conditions, and complete the abutment widening and bridge deck widening so the new sidewalk could be added without requiring a significant increase in the project cost. Additionally, it was discovered during construction that the deck was in very poor condition, and VHB helped the Town navigate their way through additional grant opportunities so that the Town could get the deck improvements wrapped into the project as well.

Duties included monitoring site safety and EPSC measures, providing engineering field support and providing clarifications to the contractor and Town, reviewing submittals, certifications, and preparing change orders, maintaining project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Contact: Tammy Farnham (Selectboard Member)

802.454.8461 | tammy.farnham@outlook.com

Cross Vermont Trail Construction Segments 2 & 3



VHB provided Construction Oversight and Inspection Services for this project consisting of approximately 4,200 linear feet of unpaved trail along the Winooski River, and construction of a 210' prefabricated pedestrian bridge over the river. The project also included trail construction by both a construction contractor and Cross Vermont Trail Association volunteers, several small foot bridges, stormwater piping, protective fencing riprap, topsoil placement and seeding. Duties included monitoring site safety and EPSC measures, providing engineering field support and providing clarifications to the contractor and Town, reviewing submittals, certifications, and preparing change orders, maintaining project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Contact: Greg Western, Executive Director

802.498.0079 | greg@crossvermont.org

VTrans Construction Inspections—Statewide



As a subconsultant to Peters Construction Consultants, VHB has been providing Construction Oversight and Inspection Services to VTrans on numerous VTrans projects throughout the State. This work has included highway resurfacing projects in Wilmington, Middlebury and Underhill, and the Middlebury Rail Bridge project. Duties included monitoring site safety and EPSC measures, providing engineering field support, reviewing certifications, and maintaining project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Contact: Sonia Peters, President

802.328.3886 | Sonia.peter@pccivt.com

Key Personnel



Evan Detrick, PE

Contract Manager | 39 years of professional experience, 7 years with VHB

Evan is Director of Transportation in VHB's South Burlington office with over 35 years of experience supporting federal, state, and municipal projects. Evan's responsibilities include scoping and budgeting, personnel and work assignment scheduling, project management, and quality control. He has completed the planning and design of projects, including a variety of sidewalks, pathways, and trails; roadways on new alignments; roadway widening and rehabilitation; bridge construction and replacement; environmental assessments in accordance with NEPA; traffic signal improvements; property and topographic surveys; floodplain certifications; and numerous stormwater improvement projects.



Wayne Symonds, PE

Technical Advisor | 31 years of professional experience, 1 year with VHB

Wayne is a Senior Structural Engineer supporting VHB's bridge design team throughout New England. Prior to joining VHB, Wayne worked for nearly 30 years with the Vermont Agency of Transportation (VTrans) as a bridge engineer, Project Manager, Structures Program manager and retiring as the Chief Engineer for the Highway Division. In his role as the Structures Program Manager, he led the development of the VTrans Accelerated Bridge program and implementation of alternative contracting in Vermont, including Design Build and CMGC. At VHB, Wayne is focused on mentoring, quality assurance, innovation, and constructability for bridge projects.



Daniel Peck, PE

Construction Administrator | 23 years of professional experience, 23 years with VHB

A civil engineer in VHB's Highway Department, Dan's focus is on transportation projects ranging from scoping studies and design projects (conceptual through contract design) of roadway, intersection, sidewalk and multi-use path projects that follow the VTrans MAS process, to include public informational meetings, review of right-of-way plans, development of construction estimates, and utility coordination.



Jeff Bachiochi, PE

Construction Administrator | 11 years of professional experience, 6 years with VHB

Jeff is a Civil Engineer with extensive experience working on transportation and infrastructure projects, including urban roadways, highways, bridge approaches, rail & intermodal stations, traffic signals, and pedestrian/bicycle facilities. He is proficient in AutoCAD Civil 3D and MicroStation Open Roads Designer for roadway & utility modeling and plan production, and has experience creating specifications, estimates, and bidding documents for state, municipal, and privately funded infrastructure projects. Jeff has performed construction administration services for various types of contract delivery methods including Design-Build, CM/GC, and Public-Private-Partnership projects.



Branden Roberts, PE

Construction Administrator | 8 years of professional experience, 8 years with VHB

Branden is a Transportation Engineer, with experience in roadway design, bicycle and pedestrian facility design, as well as field inspection experience with construction materials like concrete, soil, and asphalt. He has performed many tasks including horizontal and vertical alignment design, roadway/multiuse trail modeling and cross section development, guardrail design, open flow and closed drainage design including watershed delineation, and quantities. He has experience in performing the above tasks by hand and utilizing computer aided programs such as MicroStation, Inroads, AutoCAD Civil3D and StormCAD.



Tanner Burt, PE

Construction Inspector | 4 years of professional experience, 2 years with VHB

Tanner is a Transportation Consultant on VHB's Vermont Transportation team. His experience includes the inspection of several stormwater improvement projects in the City of Burlington, and inspection of a portion of the Cross Vermont Trail in Montpelier.



Cierra Ford, PE

Construction Administrator | 5 years of professional experience, 5 years with VHB

Cierra is a Transportation Engineer with experience in scoping and design, construction inspection, and developing the design of roadway, bridge and multi-use path projects. Cierra's services include drafting preliminary and final design plans using MicroStation and assisting senior project managers and engineers to complete design calculations for civil and structural projects.



Jason Keener, PE

Construction Inspector | 16 years of professional experience, 11 years with VHB

Jason is a Transportation Engineer in VHB's South Burlington, Vermont, office with experience in culvert, roadway, and bridge replacement, Vermont stormwater standards, and construction inspection. His skills include computer-aided drafting programs MicroStation as well as surveying with a robotic total station. Jason has performed construction inspection services for several culvert replacement projects in South Burlington, a portion of the Cross Vermont Trail in Montpelier, and rehabilitation of the Main Street Bridge in Plainfield.



Rose O'Brien, EIT

Construction Inspector | 3 years of professional experience, 3 years with VHB

Rose is a recent Civil Engineering graduate with experience including field surveying and assessments, assisting in developing quantity and cost estimates, developing construction plan sets, performing traffic counts, and developing roadway designs. Rose's construction experience includes spending an entire construction season working as a consultant to VTrans working on approximately 6 projects in the Middlebury area.



Shayna Lillis

Construction Inspector | 3 years of professional experience, 1 year with VHB

Shayna is a transportation designer in VHB's South Burlington, VT office. She has worked on a variety of projects throughout the state for VTrans and various municipalities. Shayna's construction experience includes spending an entire construction season working as a consultant to VTrans working on two highway resurfacing projects in southern Vermont, as well as over 2 years of inspecting roadway reconstruction projects in New Jersey.



James Eyler

Construction Inspector | 2 years of professional experience, 1 year with VHB

James is a Transportation Designer on Vermont's Transportation team. At his previous employer, James was a Project Inspector on several VTrans infrastructure projects, including roadway, pathway and rail crossing projects.

F. Resumes

Evan P. Detrick, PE

Contract Manager



Education

BS, Civil Engineering,
Pennsylvania State University,
1984

BA, Liberal Arts, East
Stroudsburg University of
Pennsylvania, 1984

Registrations/Certifications

Professional Engineer (Civil), VT

Affiliations/Memberships

Vermont Society of Engineers

Evan is Director of Transportation in VHB's South Burlington office with over 35 years of experience supporting federal, state, and municipal projects. Evan's responsibilities include scoping and budgeting, personnel and work assignment scheduling, project management, and quality control. He has completed the design and inspection of projects, including a variety of sidewalks, pathways, and trails; roadway widening and rehabilitation; bridge construction and replacement; environmental assessments in accordance with NEPA; traffic signal improvements; property and topographic surveys; floodplain certifications; and numerous Safe Routes to School and Transportation Enhancement projects.

39 years of professional experience, 7 years at VHB

VTrans Municipal Assistance Bureau, At-the-Ready Retainer Contract

With Evan as Contract Manager, VHB was selected by VTrans for the MAB "At-the-Ready" list of transportation engineering consultants that are pre-qualified to perform consultant services to state municipalities. VHB was selected under all three categories, including Project Management, Design, and Construction services.

Castleton/Route 4A West Sidewalk, Castleton, VT

Evan managed VHB's inspection services that included construction of approximately 3,800 linear feet of concrete sidewalk along the north side of VT Route 4A. The project included catch basins, stormwater piping, bituminous concrete driveway ramps, topsoil placement and seeding. VHB monitored EPSC measures, provided engineering field support and clarifications to the contractor and Town, reviewed submittals, certifications, and prepared change orders, maintained project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Main Street Bridge Rehabilitation, Plainfield, VT

Evan managed VHB's inspection for the rehabilitation of the Main Street bridge in downtown Plainfield. The project included extension of the nearly 100-year-old abutments to support the widening of the bridge deck and installation of a sidewalk across the bridge. The project included extensive traffic control to maintain one lane of traffic throughout construction for the abutment work. During construction it was discovered that the bridge deck was in worse shape than anticipated. VHB helped the Town secure additional funding through VTrans to complete a second phase of improvements.

Cross Vermont Trail and Bridge Construction, Central, VT

Evan managed VHB's inspection for the construction of a segment of the Cross Vermont Trail, include construction of new trail segments, installation of a 220' bridge across the Winooski River, and installation of a protective railing. VHB monitored EPSC measures, provided engineering field support and clarifications to the contractor, reviewed submittals, certifications, and prepared change orders, maintained project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.



David Saladino, PE

Principal-in-Charge



Dave is the Managing Director of VHB's South Burlington, Vermont, office. He has more than two decades of project management, transportation engineering, traffic engineering and transportation planning experience in both the public and private sectors. Dave's recent project experience includes transportation scoping and corridor planning, traffic impact studies, parking studies, transportation microsimulation modeling, and design of intersections, roundabouts, roads, sidewalks, and traffic signals.

Education

BS, Civil & Environmental Engineering, University of Delaware, 1998

Registrations/Certifications

Professional Engineer (Civil), VT,
Professional Engineer (Civil), NH

Affiliations/Memberships

Institute of Transportation Engineers, Vermont

Institute of Transportation Engineers, New Hampshire

26 years of professional experience , 8 years with VHB

Chittenden County I-89 2050 Study, Chittenden County, VT

David is Project Manager for a multiyear study of the Interstate I-89 corridor through Chittenden County. The project involves close collaboration with project clients (VTrans and CCRPC), stakeholders, and members of the public to develop a comprehensive plan for improvements along I-89 through 2050, including assessment of interstate widening, new/improved interchanges, and technology upgrades.

I-89 Exit 12B/Tilley Land Use and Transportation Plan, South Burlington, VT

As Project Manager for the VT116-Kimball-Tilley Land Use and Transportation Plan, David led a team that examined the Tilley Drive/Kimball Avenue area of South Burlington to identify a package of transportation and land use recommendations that would foster a dense, mixed-use, multimodal development pattern. The project involved significant outreach to abutting landowners and members of the public.

Malletts Bay Transportation & Stormwater Scoping Study, Colchester, VT

Served as overall Project Manager for this three-part scoping study, which involved a bicycle and pedestrian scoping study for a new facility along West Lakeshore Drive, an intersection scoping study for the Lakeshore Avenue/Blakely Road intersection, and a stormwater scoping study for the Malletts Bay area.

Country Club Road Master Planning, Montpelier, VT

Served as VHB Project Manager to develop a comprehensive master plan for the 131-acre Country Club Road parcel in Montpelier. The Master Plan involved extensive existing conditions investigations, development of alternatives, and public outreach to arrive at community consensus on a preferred plan for the property.

Winooski Transportation Master Plan, Winooski, VT

David was Project Manager for the development of a Transportation Master Plan for the City of Winooski. The Master Plan was the culmination of significant stakeholder outreach, planning and technical analysis, and coordination with City staff to develop an Action Plan for Winooski's transportation infrastructure.

East Allen Street Corridor Scoping Study, Winooski, VT

Served as Project Manager for a CCRPC Corridor Scoping Study along the East Allen Street (VT 15) corridor in Winooski, Vermont. The project involved an evaluation of existing conditions, committee and stakeholder outreach, alternatives evaluation, and identification of a preferred alternative.



Wayne B. Symonds, PE

Technical Advisor



Education

BS, Civil Engineering, University of Vermont, 1992

Registrations/Certifications

Professional Engineer (Civil), VT

Wayne is a Senior Structural Engineer supporting VHB's bridge design team throughout New England. Prior to joining VHB, Wayne worked for nearly 30 years with the Vermont Agency of Transportation (VTrans) as a bridge engineer, Project Manager, Structures Program manager and retiring as the Chief Engineer for the Highway Division. In his role as the Structures Program Manager, he led the development of the VTrans Accelerated Bridge program and implementation of alternative contracting in Vermont, including Design Build and CMGC. At VHB, Wayne is focused on mentoring, quality assurance, innovation, and constructability for bridge projects.

31 years of professional experience, 1 year with VHB

City of South Burlington, Exit 14 Pedestrian Bridge,

Wayne was part of the VHB team that provided hybrid meeting support for this project that is critical to the South Burlington pedestrian and bicyclist community. A long time in the making, this meeting provided an opportunity for the project team to meet with the community to review proposed options and solicit feedback for a collaborative design. He is also supporting the team to evaluate structure alternatives and address challenging soil profiles.

VTrans, I-89 Exit 17 Bridge Replacement, Colchester, VT

VHB Senior Structural Engineer providing quality assurance and constructability review for this major transportation infrastructure project for the Vermont Agency of Transportation (VTrans) to reconstruct Exit 17 on Interstate 89 in Colchester. The project will address safety at the interchange and replace the poor condition bridge on VT Route 2 over the interstate.

VTrans, I-91 Bridges 96-3N and 96-3S, Lyndon, VT

VHB Senior Structural Engineer providing support for the development of the procurement documents for the Design-Build project to replace culverts in deep fill on I-91 in Lyndon Vermont.

VTrans, VT Route 100 over Deerfield River, Readsboro, VT

VHB Senior Structural Engineer providing quality assurance and constructability review for the redesign of the new plate girder bridge over the Deerfield River. The project is complicated by difficult geotechnical conditions and predicted hydraulic scour.

Vermont Agency of Transportation

Notable VTrans projects managed while at include the I-91 West River Bridge in Brattleboro and Main Street and Merchants Row over Vermont Rail in Middlebury. He has managed many Town Highway Bridge projects and understands the nuances involved with municipally lead projects.

Wayne also worked three years in the Construction Section where he was the Construction Structures Engineer and has experience in all aspects of bridge construction and supporting field staff in addressing construction issues.



Rose O'Brien

Construction Inspector



Rose is a recent Civil Engineering graduate with experience including field surveying and assessments, assisting in developing quantity and cost estimates, developing construction plan sets, performing traffic counts, and developing roadway designs. She has experience in performing the above tasks by hand and utilizing computer aided programs such as MicroStation, OpenRoads, InRoads, StormCAD, AutoCAD, Civil3D, Excel and iPD.

Education

BS, Environmental Engineering,
University of Vermont, 2021

3 years of professional experience, 3 years with VHB

Lamoille Valley Rail Trail, Swanton to St. Johnsbury, VT

Rose assisted in conducting field surveys to assess the existing condition of culverts, crossings, signs, and other trail features along the Lamoille Valley Rail Trail from Swanton, VT to St. Johnsbury, VT. She assisted in generating construction quantities and developing a construction plan set, including traffic sign summaries, structural details, right-of-way plans and roadway crossing details. Plans were developed in MicroStation V8i and an ArcGIS webmap.

Middlebury Rail Tunnel, Platform, and Paving, Middlebury, VT

Rose worked as an inspector and office engineer for the Middlebury Rail Tunnel, Middlebury Platform and multiple paving projects in Middlebury and Bridport/Cornwall. Rose's duties included monitoring construction, performing and checking quantity calculations, monitoring erosion prevention practices, filing construction paperwork, and checking construction crew payroll.

Killington Road Phase 1, Killington, VT

Rose generated 2D plans, a 3D model and quantities for Phase 1 of the Killington Road Master Plan. Rose modeled proposed utilities including stormwater, sewer, and water infrastructure along with roadway features. All modeling and plan development was completed in OpenRoads Designer.

Beaver Pond Path, Proctor, VT

Rose assisted in developing final plans for a multiuse path from Beaver Pond to the Town Green in Proctor, VT. All plans were created using MicroStation V8i. Rose also developed right-of-way plans and 502 hearing graphics for public meetings.

I-89 Exit 17 Final Design, Colchester, VT

Rose developed 502 Hearing colored graphics for the redesign of the I-89 Exit 17 interchange in Colchester, VT. All graphics were developed in MicroStation V8i. Rose also modeled stormwater infrastructure in OpenRoads Designer for a complete 3D model of the project.

Winooski Main Street Revitalization, Winooski, VT

Rose is editing drainage infrastructure details and developing right-of-way plans for the project. Drainage modeling was completed in StormCAD.

Intervale Road Shared-Use Path, Burlington, VT

Rose created a 3D model of the Intervale Road share-use path in OpenRoads Designer. She also developed a 2D plan set of the model and quantities for the project.



Shayna Lillis

Construction Inspector



Shayna is a transportation designer in VHB's South Burlington, VT office. She has worked on a variety of projects throughout the state for VTrans and various municipalities.

4 years of professional experience, 1 year with VHB

Registrations/Certifications

NJSAT Asphalt Paving
Construction Technologist

ACI Concrete Field Testing
Technician – Grade I

Wilmington-Brattleboro NH 2971 (1)

Shayna served as the Office Engineer under RE Chad Greenwood from April to November of 2022 for the Wilmington-Brattleboro reclamation of Route 9. Work included approving Inspector Daily Reports, uploading daily reports and field slips to DocExpress, imputing the IDR information into Site Manager to prepare estimates, and maintaining accurate logs of materials installed to date. Work performed this construction season included milling the full depth of Route 9 in two sections, full depth reclamation and full depth reclamation with asphalt emulsion and Portland cement and paving two lifts of bituminous concrete pavement in preparation for paving the final wearing course next season. Work also included realignment and replacement of guardrail, stone lining ditches, and regrading shoulders.

Newfane BF 0106 (6)

Shayna served as the Office Engineer under RE Chad Greenwood from May to October of 2022 for the Newfane bridge replacement at the intersection of Grimes Hill Road, Depot Road, and Dover Road. Work included approving Inspector Daily Reports, uploading daily reports and field slips to DocExpress, imputing the IDR information into Site Manager to prepare estimates, and maintaining accurate logs of materials installed to date. Work performed this construction season included installation of precast concrete bridge sections, installation of cast in place abutment walls, graffiti coating the new concrete surfaces, paving, installation of new signage, and regrading the side slopes of Rock River at the approach of the bridge.

Brattleboro-Newfane STP 2940 (1)

Shayna served as the Office Engineer under RE Chad Greenwood from June to December of 2022 for the reclamation of Route 30. Work included approving Inspector Daily Reports, uploading daily reports and field slips to DocExpress, imputing the IDR information into Site Manager to prepare estimates, and maintaining accurate logs of materials installed to date. Work performed this construction season included removal of loose ledge and installation of rock stabilizing dowels, installation of underdrain, replacement of culverts, and removal of trees and vegetation overhanging the roadway.

Redevelopment of the General Motors Grounds, Linden. NJ

Shayna served as the construction inspector for the redevelopment of the old GM manufacturing plant in Linden, New Jersey for a year and a half. Projects included installation of a 5-building strip mall, development, and construction of 9 subplots for fast food facilities, the realignment and widening of S. Stiles St., and the widening of US Routes 1 and 9. Shayna's work included inspection of the installation of pavement, concrete, striping, drainage structures, sanitary sewer, electrical conduit, traffic signals, and vegetation. Shayna worked with the environmental testing subconsultant to deliver the City of Linden progress reports on remediation efforts and ongoing monitoring of this site due to decades of contamination and improper disposal of vehicle manufacturing waste.



Nicole Mann

Construction Inspector



Nicole is a Transportation Designer in VHB's South Burlington, VT office. She has worked on a variety of projects throughout the state for VTrans and various municipalities.

<1 years of professional experience, <1 year with VHB

City of Burlington, Great Streets - Main Street Revitalization, Burlington, VT

Nicole is currently serving as a Transportation Designer for the reimagining of Burlington's Main Street. VHB was selected to perform the planning and construction engineering design of a complete revitalization and reconstruction of Main Street in downtown Burlington. The project to date has included extensive community and stakeholder outreach, resulting in unanimous approval of the project concept by City Council. The project team is now moving into Conceptual Engineering Design. VHB is currently coordinating with Green Mountain Transit to evaluate transit ridership data in considering the relocation and/or consolidation of transit stops along the corridor.

Killington Road Design - Phase 1, Killington, VT

VHB is providing design and permitting services for the reconstruction of Killington Road – Phase 1. Nicole is providing transportation services.

Vermont Agency of Transportation (VTrans), Colchester NH 028-1(31) Exit 17, Colchester, VT

Nicole is a Transportation Designer for this major transportation infrastructure project for the Vermont Agency of Transportation (VTrans) to reconstruct Exit 17 on Interstate 89 in Colchester. The project will address safety concerns at the interchange and replace the structurally deficient bridge over the interstate. In addition, the project includes new ramp construction, ramp relocation, roadway widening, reconstruction of three signalized intersections, bicycle and pedestrian accommodations, and stormwater treatment. VHB is leading the environmental permitting and engineering design efforts including, traffic modeling and engineering, highway geometry design, structural engineering, environmental permitting, transportation management, and public outreach.



James Eyler

Construction Inspector



James is a Transportation Designer on Vermont's Transportation team. At his previous employer, James was a Project Inspector on Vermont Agency of Transportation infrastructure projects.

2 years of professional experience , 1 year with VHB

EIV Technical Services, Civil Engineer, Winooski, VT

Prior to joining VHB, James was Consulting Inspector for Vermont Department of Transportation infrastructure projects. Some of those projects included the Middlebury Train Tunnel project, where he oversaw the demolition and reconstruction of the walls at the south end of the tunnel. In Burlington, he inspected contracts for the platform and rail work for the implementation of the Amtrak line to Burlington as well as the bike path that paralleled the tracks. He also worked on a paving project in Addison County.

City of Burlington, Great Streets - Main Street Revitalization, Burlington, VT

James is currently serving as a transportation designer specializing in existing utility information and modelling for the reimagining of Burlington's Main Street. VHB was selected to perform the planning and construction engineering design of a complete revitalization and reconstruction of Main Street in downtown Burlington. The approval of the project concept by City Council. The project team is now moving into Conceptual Engineering Design. VHB is currently coordinating with Green Mountain Transit to evaluate project to date has included extensive community and stakeholder outreach, resulting in unanimous transit ridership data in considering the relocation and/or consolidation of transit stops along the corridor.

Winooski Main Street, Winooski, VT

This project is a three-quarter mile downtown roadway reconstruction including streetscape, undergrounding aerial utilities, drainage redesign, signal design, striping reconfiguration and signing upgrades. James's roles included recreation of changes of plans through the development of contract plans.

VTrans / Colchester NH 028-1(31) Exit 17, Colchester, VT

James is the CAD technician, implementing new designs into the plans for this major transportation infrastructure project for the Vermont Agency of Transportation (VTrans) to reconstruct Exit 17 on Interstate 89 in Colchester. The project will address safety concerns at the interchange and replace the structurally deficient bridge over the interstate. In addition, the project includes new ramp construction, ramp relocation, roadway widening, reconstruction of three signalized intersections, bicycle and pedestrian accommodations, and stormwater treatment. VHB is leading the environmental permitting and engineering design efforts including, traffic modeling and engineering, highway geometry design, structural engineering, environmental permitting, transportation management, and public outreach.



Education
BS, Civil Engineering, University
of Vermont, 2021

Registrations/Certifications

Certified Concrete Testing
Technician Grade I, American
Concrete Institute, VT,

Jason D. Keener, PE

Construction Inspector



Jason is a Transportation Engineer in VHB's South Burlington, Vermont, office with experience in culvert, roadway, and bridge replacement and rehabilitation, structural design, and construction inspection. His skills include steel and concrete design, structural analysis and modelling, as well as computer-aided drafting programs AutoCAD and Microstation.

16 years of professional experience , 11 years with VHB

Education

BS, Civil Engineering, Clarkson University, 2006

Registrations/Certifications

Professional Engineer, VT

Affiliations/Memberships

Vermont Society of Engineers, 2013

Main Street Bridge Rehabilitation, Plainfield, VT

Jason is the Construction Inspector and Resident Engineer for this project to construct a sidewalk on the side of an existing bridge in the Village of Plainfield. The complex project consisted of removal and extension of existing concrete end walls and bridge railing and the construction of a new T-Beam to support a sidewalk and bridge railing across the bridge. The project required several Change Orders throughout the construction and Jason coordinated with the Town MPM, Design Engineer, VTrans Project Manager, VTrans materials section, and VTrans bridge inspectors to ensure a quality product was delivered to the town. During construction the existing bridge deck was also discovered to be in poor condition and VHB helped the Town secure additional funding through VTrans to complete a second phase of improvements consisting of Hydro-demolition of and repairs to the deck. Throughout the entire project Jason was responsible for monitoring EPSC measures, providing engineering field support and clarifications to the contractor and Town, review of submittals, certifications, and preparation of change orders, maintaining project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

Cross Vermont Trail and Bridge Construction, Central, VT

Jason is the lead inspector and task manager for the construction of a segment of the Cross Vermont Trail, which includes construction of new trail segments, installation of a 220' bridge across the Winooski River, and installation of a protective railing. VHB monitored EPSC measures, provided engineering field support and clarifications to the contractor, reviewed submittals, certifications, and prepared change orders, maintained project records such as daily work reports, submittals and material certifications, material testing and inspection reports, payroll certifications and wage rate interview forms.

VRS, Vermont Rail Systems Bridge Engineering Services, Vermont

VHB provides Bridge Engineering Services for the Vermont Rail Systems (VRS), which consists of providing all necessary support to the railroad for maintaining, inspecting, rehabbing, and replacing the Railroad responsible bridges on four railroads as well as all the bridges on the Clarendon Pittsford Railroad (CLP). These services include annual bridge inspection, load rating for normal live loads and special overweight loads, review of load ratings by other consultants and the Vermont Agency of Transportation (VTrans), designing repairs, and new bridges, and emergency inspections. The types of bridges ranged from simple span concrete slabs and culverts to multi-span thru-girders and truss bridges. Jason worked as an Inspection Team Leader and Team Member, completing both annual inventory/condition and load rating inspections. He was responsible for performing and overseeing inspections, completing Initial Inspection reports and Final Inspection reports.



Tanner Burt

Construction Inspector



Tanner is a Transportation Consultant on VHB's Vermont Transportation team.

4 years of professional experience, 2 years with VHB

City of Burlington, Combined Sewer Stormwater Overflow (CSO) Stormwater Retrofits , Burlington, VT

VHB provided construction level design and permitting services for installation of stormwater retrofits aimed at reducing flow through combined sewer stormwater overflows. Tanner served as a Construction Inspector on this project, responsible for daily construction reports, and preparation of as-built documents for the client.

Education

BS, Civil Engineering, Clarkson University, 2018

Affiliations/Memberships

American Society of Civil Engineers

Cross Vermont Trail Association, Trail Inspection, East Montpelier, VT

VHB provided Resident Engineer and Construction Inspection services during the construction phase of the Cross Vermont Trail segment located in the Towns of Berlin, Barre Town, and East Montpelier along the North side of US Route 2. Work performed under this project included the partial removal of the existing roadway shoulder, construction of a gravel pathway, median barrier, timber rail, and grading. Tanner served as a Construction Inspector responsible for performing daily construction reports and quantity reconciliations with the contractors.



Daniel M. Peck, PE

Construction Administrator



A civil engineer in VHB's Highway Department, Dan's focus is on transportation projects ranging from scoping studies and design projects (conceptual through contract design) of roadway, intersection, sidewalk and multi-use path projects that follow the VTrans MAS process, to include public informational meetings, review of right-of-way plans, development of construction estimates, and utility coordination.

23 years of professional experience, 23 years with VHB

Education

BS, Civil Engineering, University of New Hampshire, 2000

Registrations/Certifications

Professional Engineer (Civil), VT

City of Burlington, Bike Path Rehabilitation, Burlington, VT

Dan was project engineer for the rehabilitation of a bike path located along Burlington's waterfront that has extraordinary views of Lake Champlain and the Adirondack Mountains. The 30-year-old bike path is a multi-use facility that supports alternative transportation, recreation, and active lifestyles; attracts visitors to the City of Burlington and stimulates the local economy; and enhances the overall quality of life. Being one of the busiest multi-use paths in the state, it is showing its age in terms of overall conditions and functionality, and VHB is addressing primary areas of design concern, including path width, geometry, shoulder conditions, and sight distance. Dan is providing quality assurance and quality control for the path design.

Town of Bennington, Multiuse Pathway, Bennington, VT

Dan is the Project Manager for the design of approximately 1.5 miles of multiuse path connecting downtown Bennington to a park and elementary school. The path will be constructed within a railroad right-of-way and will include the rehabilitation of an existing railroad bridge and traffic signal modifications.

Town of Manchester, Rail Trail, Manchester, VT

Dan was the Project Manager for a feasibility study to evaluate alternatives for the conversion of 1.5 miles of an abandoned railroad corridor to a multi-use path. The path would be an extension of the Town's existing multimodal trail network and potentially provide an off-road connection between the Manchester schools and the neighboring Dorset schools. The study evaluated construction costs, phasing, resource impacts and permitting requirements.

Town of Hinesburg, Sidewalk and Multiuse Path, Hinesburg, VT

For the Town of Hinesburg, Dan was Project Engineer for the development of a transportation enhancement project with two distinct segments: the creation of a 5-foot-wide sidewalk along the west side of Mechanicsville Road from Commerce Street to the Champlain Valley Union (CVU) High School Road, and the creation of a 10-foot-wide paved multi-use path along the north side of the CVU Road from Mechanicsville Road to Ballards Corner Road.

Essex Junction, Multiuse Path, Essex Junction, VT

VHB designed a 1,175-foot-long multiuse path along the existing rail corridor between North Street and Central Street. The new path allows cyclists and pedestrians to move from Essex High School to and from Central Street without using a public street. Key components of this project included coordination with the railroad, utilities, businesses, and residents, design of the path, lighting, and stormwater treatment. Funded by VTrans, the Chittenden County Regional Planning Commission, and the Village, this project marks the first time New England Central Railroad has allowed such a project along an active rail line.



Jeff Bachiochi, PE

Construction Administrator



Jeff is a Civil Engineer in VHB's South Burlington office with extensive experience working on transportation and infrastructure projects, including urban roadways, highways, bridge approaches, rail & intermodal stations, traffic signals, and pedestrian/bicycle facilities. He is proficient in Microstation, OpenRoads, and AutoCAD Civil 3D for roadway & utility modeling and plan production, and has experience creating specifications, estimates, and bidding documents for state, municipal, and privately funded infrastructure projects. Jeff has performed construction administration services for various types of contract delivery methods including Design-Build, CM/GC, and Public-Private-Partnership projects.

Education

MS, Civil Engineering,
Northeastern University, 2016

BS, Civil Engineering,
Northeastern University, 2012

Registrations/Certifications

Professional Engineer (Civil
Engineer), VT

11 years of professional experience, 6 years with VHB

VTrans, Park and Ride Project, Williamstown-Northfield, VT

Jeff was the Project Manager and technical lead for VHB during construction for the Northfield/Williamstown Park and Ride project that was constructed in 2021-2022. Located on a parcel already occupied by a VTrans district maintenance facility, the project design included parking for 75 vehicles, a bus shelter, a realigned access drive to be shared by both park-and-ride users and state maintenance vehicles, with associated security fencing and gate to separate the uses.

STV Incorporated, Boston, MA

Prior to joining VHB, Jeff worked in the civil department at another firm preparing design plans, specifications, construction estimates, as well as providing construction phase services for projects in the transportation and infrastructure field, including:

Boston Landing Commuter Rail Station; Allston, MA

The Boston Landing Station is a new commuter rail station on the MBTA Worcester Line that was constructed in 2016-2017. Jeff was the lead project engineer for all the transportation elements of the project and served as the primary construction phase manager, performing weekly site visits, and coordinating all of our construction phase services such as RFIs, submittals, and tracking construction issues.

Binney Street Revitalization, Cambridge, MA

The reconstruction of Binney Street and surrounding roads between Land Boulevard and Third Street in Cambridge involved updating the infrastructure of the area to accommodate a multi-building redevelopment project. Jeff performed construction oversight services on behalf of the City of Cambridge of all public infrastructure within the city right of way, ensuring that various contractors were meeting the requirements of their Traffic Control Plans.



Branden Roberts, PE

Construction Administrator



Education

BS, Civil Engineering,
Wentworth Institute of
Technology, 2014

Registrations/Certifications

Professional Engineer, VT

Branden is a Transportation Engineer, with experience in roadway design, bicycle and pedestrian facility design, and landfill design, as well as field inspection experience with construction materials like concrete, soil, and asphalt. He has performed many tasks including horizontal and vertical alignment design, roadway/multiuse trail modeling and cross section development, guardrail design, open flow and closed drainage design including watershed delineation, and quantities. He has experience in performing the above tasks by hand and utilizing computer aided programs such as MicroStation, Inroads, AutoCAD Civil3D and StormCAD.

8 years of professional experience, 8 years with VHB

City of Burlington, Bike Path Rehabilitation, Burlington, VT

Branden was the lead designer of six separate contracts for the rehabilitation of bike path located along Burlington's waterfront that has extraordinary views of Lake Champlain and the Adirondack Mountains. The 30-year-old bike path is a multiuse facility that supports alternative transportation, recreation, and active lifestyles; attracts visitors to the City of Burlington and stimulates the local economy. Design services included path widening, replacement of the pavement and subbase, intersection improvements, and the addition of stormwater treatment facilities. Due to the intricacies of widening an existing pathway through a heavily developed area, weekly construction coordination was a large part of ensuring the success of this iconic project for the city of Burlington. Branden had significant construction coordination involvement throughout the five years the phased reconstruction. Construction coordination included weekly meetings between the client, resident engineer, and construction crews; frequent site visits to work out the nuances between surveyed limits and proposed improvements; and frequent design/scope changes as the client often added additional engineering aspects adjacent to the project that were to be designed and constructed while the crews were in the area.

City of Winooski, Main Street, Winooski, VT

Branden was a project designer for this three-quarter mile downtown roadway reconstruction including bicycle/pedestrian improvements, streetscape enhancements, undergrounding aerial utilities, closed drainage redesign and treatment, signal design, striping reconfiguration and signing upgrades. As a priority bicycle and public transit corridor for the City, there was an added design emphasis surrounding a connection through downtown for all modes of transportation.

East Main Street Sidewalk, Wilmington, VT

This project was a sidewalk reconstruction/redesign that started with conceptual plans and went through ROW, and most recently utility adjustments. Branden designed new/reconstruction of sidewalk throughout the corridor, 3 new retaining walls to be constructed adjacent to the sidewalk, and signing/crosswalk improvements along the corridor. He also produced the ROW plans and tables for this project.

St. Albans, Lake Street Connection, St. Albans, VT

Branden was a Design Consultant for this project to provide engineering services, streetscape design, and necessary infrastructure improvements on Lake Street between Main Street and Federal Street in accordance with the City's 2009 Downtown Master Plan. Branden's duties included design modifications, work zone traffic control plans, and quantities.



Cierra Ford

Construction Administrator



Cierra is a Transportation Designer in VHB's Vermont office, with experience in scoping and design, construction inspection, and developing plans. Cierra's services include drafting preliminary and final design plans using MicroStation and AutoCAD software and assisting senior project managers and engineers to complete design calculations for civil and structural projects.

5 years of professional experience , 5 years with VHB

Education

BS, Civil Engineering, Worcester
Polytechnic Institute, 2018

Registrations/Certifications

Professional Engineer (Civil), VT
Envision Sustainability
Professional

Castleton Route 4A Sidewalk, Castleton, VT

Cierra was Construction Engineer for a sidewalk project in Castleton. Her responsibilities included reviewing shop drawings and material certifications, taking the role of resident engineer at the site part-time, collaborating with the full-time resident engineer, VTrans Project Manager, contractor, MPM, design engineer, and Town Manager.

Cross Vermont Trail, East Montpelier, VT

VHB provided Resident Engineer and Construction Inspection services during the construction phase for the Cross Vermont Trail in East Montpelier along the north side of US Route 2. Work performed under this project included partial removal of existing roadway shoulder, construction of a gravel pathway, median barrier, timber rail, and grading. Cierra was the Project Manager for the inspection services, supervising the resident engineer and coordinating with VTrans and the client to ensure the successful completion of the construction project.

Windhall Stratton Access Road Culvert Replacement, Windhall, VT

VHB provided Resident Engineer and Construction inspection services during the construction of a concrete box culvert under the Stratton Mountain Access Road. Cierra was responsible for overseeing the contractor perform major work, inspecting EPSC measures, keeping track of equipment utilized, providing guidance as needed, and coordinating with the client and contractor.

Underhill-Cambridge VT Route 15, VT

VHB provided Resident Engineer and Construction inspection services under RE Josh Hulett of VTrans during the cold in-place recycling and resurfacing of VT Route 15 between Underhill and Cambridge and the reconstruction of the park-and-ride in Cambridge. Cierra was onsite during all construction activities, provided guidance to the contractor as needed, maintained records such as material slips, quantities, and written daily reports, and inspected EPSC measures during the construction season.

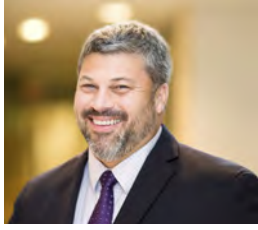
Burlington Bike Path Rehabilitation, Burlington, VT

VHB provided design and permitting services for the third phase of the Burlington Bike Path Rehabilitation from Queen City Park Road to Perkins Pier. The project involves incorporating urban and rural placemaking and planning, civil and structural engineering, geotechnical expertise, environmental remediation, and innovative and intentional landscape architectural design. Cierra assisted with the final design and plan development for this project, as well as being the main point of contact at VHB for construction phase services.



Scott E. Burbank, PE

Rail Crossings



Scott is Director of Structures and Rail in VHB's South Burlington office with extensive experience in planning, design and construction of both highway and railroad bridges and roadway and railroad crossing reconstruction projects. His qualifications also include quality control and quality assurance, construction cost estimating, accelerated bridge construction (ABC), and structural inspections of both railroad and highway bridges.

29 years of professional experience, 13 years with VHB

Education

BS, Civil Engineering, Worcester
Polytechnic Institute, 1993

Registrations/Certifications

Professional Engineer
(Structural I), VT, 07/2022

VTrans / I-89 Bridges 76N&S and 77N&S, Colchester, VT

Scott was the Senior Project Manager for the designing and construction engineering for the deck replacement of Bridges 76N&S and 77N&S on I-89 over Bay Road and Mallet's Creek respectively. This project consisted of the removal and replacement of four bridge decks on one of the busiest stretches of the Interstate in Vermont. VHB's innovative design combined accelerated bridge construction techniques with a precast concrete deck system that had never been used in Vermont to finish the project within budget and ahead of schedule. The bridge decks were replaced with full-depth precast concrete deck panels during multiple weekend closures. To manage high traffic flows, VHB utilized lane shifts, crossovers, and partial demolitions of bridge decks prior to the bridge closures. This required the review of multiple precast concrete fabrication drawings and erection plans, temporary traffic control plans, and attendance at multiple construction meetings including the preconstruction and final inspection. Scott was responsible for the internal management of the VHB project team, coordination with the VTrans Project Manager and other VTrans Construction Staff including the Resident Engineer and Inspector.

VTrans / VT 4 over Ottauquechee River (Bridge #33), Killington, VT

Scott is the Senior Project Manager for the design and construction engineering for the replacement of Bridge #33 over the Ottauquechee River on US Route 4 in Killington. The existing single span concrete deck and steel beam bridge required a complete bridge replacement along with roadway widening and approach railing. Scott is currently overseeing the review of construction submittals such as the steel girder fabrication drawings, erection plans, temporary traffic control plans, and will attend on-site meetings as required along with the preconstruction and final inspection. Scott was responsible for the internal management of the VHB project team, coordination with the VTrans Project Manager and other VTrans Construction Staff including the Resident Engineer and Inspector.

VTrans / Lamoille Valley Rail Trail, Swanton to St. Johnsbury, VT

Scott provided project oversight and task management during construction of the Lamoille Valley Rail Trail project to complete the final trail and bridge construction of the 93-mile trail that runs from Swanton to St. Johnsbury. This project includes the rehabilitation of over twenty bridges, and replacement of six bridges with prefabricated thru truss bridges and concrete substructures supported on spread footings or deep foundations. VHB continues to provide engineering support throughout construction which has included shop drawing review, responses to Request for Information (RFI's) and construction questions, as well as on-site and preconstruction meetings and the final inspection. The LVRT project will have a lasting impact throughout the state, providing all-season recreational opportunities for locals and tourists alike.



Kelly Barry, PE

Construction Administrator



Kelly is a Transportation Engineer in VHB's South Burlington, Vermont, office. Her design experience includes concrete and steel structures, as well as roadways and bike/pedestrian facilities. Kelly has assisted on many aspects of projects including task management, plan development, bridge inspection, load ratings, cost estimating, and structural design. She is also experienced in computer aided drafting programs such as MicroStation and AutoCAD.

Education

MS, Civil Engineering, University of New Hampshire, 2013

BS, Civil Engineering, University of New Hampshire, 2011

Registrations/Certifications

Professional Engineer (Civil Engineer), VT, 07/2022

Affiliations/Memberships

WTS International, Vermont, 2018

10 years of professional experience, 10 years with VHB

116 Sidewalk, Hinesburg, VT

Kelly served as a Design Engineer for the final design of a 1,000-foot sidewalk along Vermont Route 116 in Hinesburg. Her responsibilities included coordination with clients and State representatives and plan development and design. The project included the development of alternatives and conceptual plans through production of right-of-way plans, contract plans, and construction cost estimate.

Burlington Bike Path Rehabilitation Project, Burlington, VT

Kelly was a Design Engineer for the design of Phase 2 of the rehabilitation of a 30-year-old bike path through Burlington to Colchester, Vermont. Being one of the busiest multi-use paths in the state, VHB addressed primary areas of design concern, including path width, geometry, shoulder conditions, and sight distance. Kelly's responsibilities included plan development and design. The project included the development of alternatives and conceptual plans through production of right-of-way plans, contract plans, traffic control, and construction cost estimate for 3.3 miles of bike path.

Grout Road Bridge, Montpelier, VT

Grout Road Bridge is a single span steel girder with timber deck bridge supported on unreinforced concrete abutments that services four private residences. VHB is responsible for the engineering to provide a load rating of the bridge in existing conditions, alternatives analysis report, permitting, utility coordination and design bid documents for the selected alternative. For the existing structure to last until full replacement can be completed, VHB is responsible for providing interim repair recommendations and interim repair documents for bid. As Project Manager, Kelly is responsible for coordinating between the Town, FEMA, the VHB design team, and local stakeholders.

Pinello Road Bridge Replacement, Bethel, VT

VHB is the designer for the Pinello Road Bridge project which involves the replacement of an existing temporary vehicular bridge in Bethel, VT. The original bridge was washed away in a FEMA declared emergency storm event in 2019. The project will replace the temporary structure with composite steel girder bridge on integral abutments that meets the bankfull width. The scope of work under this contract includes roadway and structural design, utility relocation, and developing Right-of-Way plans. As Project Manager, Kelly is responsible for coordinating between the Town, VTrans, FEMA, the VHB design team, and local stakeholders. VHB will be provided construction inspection services for this project.



Kurt Muller, PE

Contaminated Soils



Education

BS, Environmental Engineering,
University of Vermont, 2004

BA, Biology, University of
Vermont, 1999

Registrations/Certifications

Professional Engineer, VT

Affiliations/Memberships

Vice President - Vermont
Environmental Consortium
(2013- present)

American Council of
Engineering Companies

Kurt's engineering expertise includes project management, investigation and remediation design, clean-up oversight, and stakeholder collaboration for brownfield sites. Specifically, Kurt's expertise focuses on managing complex projects that require coordination with a variety of stakeholders including EPA, DEC, attorneys, municipalities, transportation agencies, and the public. During all of his projects, Kurt has emphasized meaningful, proactive communication and community participation in order to ensure a successful outcome. Kurt is a licensed Professional Engineer in Vermont with 18 years of experience in the private sector.

18 years of professional experience, 4 years with VHB

Brownfields Investigation and Redevelopment

Project Manager on more than 50 EPA-funded Brownfield site investigations, where he has prepared Workplans/QAPP documents and investigation reports. He has performed Evaluations of Corrective Action Alternatives (ECAA) and prepared numerous Corrective Action Plans (CAPs) that address a wide variety of contaminants. Familiar with and generate risk-based and self-implementing cleanup plans for TSCA-regulated PCB sites. Characterized former dry-cleaner site with chlorinated solvent impacts. Designed, coordinated and implemented remediation for two former paper mills impacted by dioxins/furans and PCBs, which included developing DEC & EPA approved QAPPs for post remediation dioxins/furans indoor air clearance sampling, the first of their kind for Region 1 EPA. Prior to project management, performed soil, vapor and groundwater sampling using a variety of techniques including EPA's slow purge sampling procedures, membrane interface probing, Drive Point/Direct Push technology, Waterloo Profiling, incremental sampling methodology, soil and sediment coring, bathymetry assessments, and monitoring well installation. Also, supervised numerous underground storage tank closures throughout Vermont.

Management, Remediation and Construction Oversight

Between 2008 and project completion in 2013, provided oversight and project management for the National Park Service (NPS) on the successful Kregci Dump Site remediation in Cuyahoga Valley National Park. In 2014 and 2015 performed oversight and management assistance during the remediation of operable unit 1 (OU1) of the Washington Gas Site for NPS, and oversaw the construction of an isolation barrier at the Orphan Mine Site in Grand Canyon National Park. Provided investigation oversight and document review to confirm Administrative Order of Consent compliance at the GERO Vincennes Site. Designed, managed, and implemented an EPA approved soil and groundwater management plan for the City of Burlington's Waterfront Access North project (2013-present) that rehabilitated land surrounding a former coal fired power plant for safe recreational reuse.

Environmental Site Assessments (ESAs)

Performed and/or oversaw more than 90 ESAs on a variety of commercial and residential properties. Project manager/lead engineer on several subsurface Phase II hydrogeologic investigations at a variety of petroleum, chlorinated solvent, and PCB contaminated sites.





ALAN I. BROWN

Construction Services Manager

EDUCATION:

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

CERTIFICATIONS:

- ACI Field Technician Level 1
- PCI Quality Technician
Grade III
- ICC Reinforced Concrete
Special Inspector, Soils
Special Inspector,
Fireproofing Special
Inspector, Structural
Steel and Bolting Special
Inspector, Welding Special
Inspector, Master of Special
Inspections
- NETTCP Concrete
Technician, HMA Plant
Technician, HMA Paving
Inspector, Soils and
Aggregate Special
Inspector
- Ground Penetrating Radar
Inspector
- Dipstick Floor Flatness
Operator
- AWS Certified Welding
Inspector

AFFILIATIONS:

- Board of Directors,
International Code Council,
Vermont Chapter

EXPERIENCE

Alan Brown joined S. W. Cole Engineering, Inc. in 2013 as the 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.

RESPONSIBILITIES

As Construction Services Manager, 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.



SCOTT HARMON

Construction Services
Operations Manager

EDUCATION:

University of Maine

B.A. Public Administration

CERTIFICATIONS:

- OSHA 10 hour Construction Safety & Health Course
- APNGA Nuclear Gauge Safety Refresher
- APNGA U.S. D.O.T. HAZMAT Portable Nuclear Gauges
- APNGA Portable Nuclear Gauges
- ACI Aggregate Strength Testing Technician
- ACI Concrete Laboratory Testing Technician - Level 1
- ACI Concrete Strength Testing Technician
- ACI Concrete Laboratory Testing Technician - Level 1
- ACI Concrete Field Testing Technician - Grade 1
- ACI Aggregate Testing Technician - Level 1

EXPERIENCE

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

RESPONSIBILITIES

As the Construction Services Operations Manager Scott is familiar with all aspects of construction services projects, assigns tasks and directs construction services team members while actively participating in staff and business development.



DAKOTAH R. SENESAC

Construction Services
Technician - Grade II

EDUCATION:

Johnson State College

B.A. Theatre Arts

CERTIFICATIONS:

- Floor Flatness & Levelness
- OSHA 10 Hour
- NETTCP HMA Paving Inspector
- NETTCP Soils & Aggregate Lab Technician
- NETTCP Soils and Aggregate Inspector
- ICC General Requirements
- GSSI StructureScan
- APNGA Portable Nuclear Gauges
- APNGA U.S. D.O.T. HAZMAT Certification Portable Nuclear Gauges
- ACI Aggregate Testing Technician - Level 1
- ACI Concrete Strength Testing Technician
- ACI Concrete Laboratory Testing Technician - Level 1
- ACI Concrete Field Testing Technician - Grade 1

ABOUT

Dakotah Senesac joined S.W. Cole Engineering, Inc. (S.W. COLE) in February 2019 as a Construction Services Technician in our White River Junction, Vermont office. Prior to his employment with S.W. COLE, Dakotah worked with a property management company in the Stowe, Vermont area.

RESPONSIBILITIES

As a Construction Services Technician - Grade II Dakotah is qualified to perform field and laboratory testing on soils, aggregate and concrete.



MATT N. KINGERY

Construction Services
Technician - Grade I

EDUCATION:

Lake Land College
B.S. Civil Engineering

CERTIFICATIONS:

- OSHA 10 Hour Construction Safety
- NETTCP Soil & Aggregate Inspector
- ICC General Requirements
- APNGA U.S. D.O.T. HAZMAT Portable Nuclear Gauges
- ACI Concrete Field Testing Tech-Grade 1

ABOUT

Matt Kingery joined S.W. Cole Engineering, Inc. (S.W.COLE) in June 2020 as a construction services technician in our White River Junction office. Zach has previous experience working as a laboratory technician for a construction materials firm in Illinois.

RESPONSIBILITIES

As a CST Grade I Matt is qualified to perform both field and laboratory testing of soil aggregate and concrete.

