PROPOSAL FOR
CONSTRUCTION INSPECTION
TO THE TOWN OF EAST MONTPELIER, VT

EAST MONTPELIER PARK-AND-RIDE
EAST MONTPELIER VERMONT
CMG PARK (37)

MARCH 31, 2017
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Cost Proposal Submitted in Separate Envelope
March 31, 2017

C. Bruce Johnson, Town Administrator
Town of East Montpelier
40 Kelton Road
PO Box 157
East Montpelier, VT 05651
(802) 223-3313 x 204
eastmontadmin@comcast.net

RE: Proposal for Construction Inspection Services – East Montpelier, VT.
East Montpelier Park-and-Ride Project CMG PARK (37)
JTC Proposal No. 17-147

Dear Mr. Johnson:

John Turner Consulting (JTC) is pleased to submit this technical proposal to the Town of East Montpelier, Vermont for Construction Inspection Services for the East Montpelier Park and Ride Project. JTC has enjoyed a long history of providing construction services to municipalities throughout Vermont and New England and pride ourselves in being highly responsive to our clients’ needs and working collaboratively with all stakeholders in a professional and respectful manner. JTC’s attached proposal is based on the Request for Proposal issued March 8, 2017 and updated question/answers. We will assign one of our experienced project managers to provide resident engineering support for this project: Chris Kaufman, CPESC, Resident Program Manager or Rich Seymour, Resident Engineer.

JTC offers the following benefits:

- **Relevant Experience:** Successful performance on many local transportation improvement projects throughout Vermont and other New England states: Please refer to project profiles for complete list.
- **Skilled Team and Affordable Rates:** A strong team of affordable professionals with a proven track record.
- **Excellent Communications:** JTC prides itself on timely and accurate reporting and communications.
- **In-House Materials Testing:** JTC offers technically superior in-house materials testing services.
- **Strong Project Management and Financial Controls:** JTC has significant experience to help eliminate project schedule creep and cost overruns.

The estimated fee is tabulated in a separate sealed envelope delivered with this proposal. The fee was determined using the assumptions provided in the Proposal and based on an assumed 10-week construction schedule.

We look forward to working with the Town of East Montpelier, Vermont on this project.

Respectfully,

Chris Kaufman, CPESC
Resident Engineering Program Manager
Cell Phone Number (802)-745-7426
chrisk@consultJTC.com
2. PROJECT UNDERSTANDING & GENERAL APPROACH

Project Understanding

Our understanding of the project is that the Town of East Montpelier, Vermont is seeking Construction Inspection Services for the construction of a combination park-and-ride/bus stop facility to be located at 110 Vermont Route 14 N. in East Montpelier, Vermont.

The Site consists of an approximately 0.53-acre parcel of land with an unoccupied 5-bay garage building. The site was formerly owned by Washington Electric Cooperative (WEC) since the mid 1950's. The garage was historically used by WEC as storage facility for vehicles and equipment. Based on a review of environmental documentation, the site has been the subject of various historic environmental investigations throughout the 2000’s which involved the collection and analyses of soil and groundwater samples revealing the presence of soil contamination associated with petroleum products and polychlorinated biphenyls (PCBs). Weston and Sampson, Inc. conducted a Phase II Environmental Assessment (EA) in 2013 which documented the presence of petroleum contamination (PAHSs and VOCs) in shallow soils at or above residential risk based levels, random concentrations of PCBs in soils above industrial and residential risk based concentrations below 0.5 feet, and minor or background concentrations of arsenic in soils. The EA recommended no further action as the proposed use of the site as a future park-and-ride could be developed without impacting onsite soils. The VT DEC confirmed this approach and issued Brownfield Certificate of Completion in 2016.

The park-and-ride project includes the following: a new parking lot (bituminous concrete pavement) with 27 spaces, a shared-use path (Portland cement sidewalk) connecting the parking area to the intersection of VT Route 14 and U.S Route 2, bus shelter, signage, pavement markings, landscaping, parking lot lighting, and other incidentals.

The Town of East Montpelier received grant funding from the State of Vermont through the transportation alternative program which is currently administered through the Municipal Assistance Bureau (MAB) section of the Vermont Agency of Transportation (VTrans). The funding of this project will be made up of both state and local Town funds. Although the Town will be managing the project locally, using Federal and State funds requires that all components of the project follow pertinent Federal and State regulations.

JTC understands this project is important to the Town of East Montpelier. If the City accepts our proposal, JTC will provide the lead engineering role through the completion of project. Our staff have regularly worked with numerous communities in Vermont to assist in making communities more transportation, pedestrian and biking friendly. We believe that safely designed, well-lit, and strategically placed park and ride areas are important for rural communities to help reduce traffic congestion and encourage ride sharing.
Approach

First and foremost, JTC’s plan approach is to provide superior resident engineering oversight, ensure quality construction, and maintain effective cost controls. JTC will work hard to manage the project and onsite activities in a way that will result in the elimination of cost overruns. Chris Kaufman, our Resident Engineering Program Manager, will attend the Pre-Construction meeting with one of our experienced construction inspectors. Following the pre-construction meeting, the Project Manager will record pre-construction existing conditions, verify the job layout and staking, and review all project documentation. Following the pre-construction meeting, the Project Manager will record pre-construction existing conditions and verify the job layout and review all project documentation.

JTC understands that comprehensive project planning, strategic design, effective quality assurance and controls, and diligent construction contract administration are the key components of managing a successful project. JTC has been successful as the Owners Representative in ensuring all components of these critical management components are in place and working effectively. JTC’s skill at constructability reviews and onsite management has resulted in thousands of dollars of savings to municipalities. Communication, attention to detail, and a collaborative team approach ensure these processes occur in a smooth manner. JTC resident engineers are as familiar with the administrative requirements governing construction contracts as they are with construction methods and technical specifications. Most important among these administrative functions is financial management. This mainly consists of working on the Owner’s behalf to manage, track, and verify the financial transactions during construction. Elements of this responsibility starts with verifying construction quantities installed and stored on-site, independently validating the Contractor’s pay requests, and verifying that each item complies with requirements of the material certifications and submittals. All change orders with work items not in the original cost estimate will have an independent cost estimate prepared by the RE.

During the project, JTC will be on the site daily, as needed, to properly monitor site conditions; maintain communications; prepare daily reports; document site activities; track project quantities; and verify materials, quantities, correct placement, workmanship, protection, site safety procedures, environmental controls, and other pertinent issues. Among the issues that the Construction Inspector will be responsible for from day to day are assuring that the contractor and their sub-contractors follow all the construction contract requirements and that all permits are in place. Any deviations from these documents will be immediately reported to Mr. Bruce Johnson, acting Municipal Project Manager (MPM), verbally and in writing. JTC understands that VTrans coordinated Right-of Way (ROW) in-house and therefore any issues related to property ROW issues will be coordinated directly with Mr. Wayne L. Davis, project supervisor at VTrans. JTC will inspect staging area(s) and materials storage locations for compliance with applicable state standards and monitor erosion control on an ongoing basis to assure that it complies with the project permits.

JTC will review all final calculations and all other pertinent documents to issue a Certificate of Completion. This will certify to the City that the project was constructed as designed, in conformance with the project specifications, subject to appropriate revisions during construction, and required contract provisions. Our Resident Engineer will also be responsible for red lining drawings as work is completed. A final set of as-built plans will be prepared and submitted to the Town. At this point, the inspectors will have determined that the work performed complies with plans and specifications and is true to line and grade. A final punch list will be developed following an inspection to confirm that the contractor has achieved substantial completion. The “punch list” will be monitored and updated until the items are complete.
3. Knowledge of Project Area

After careful review of the RFP and project documents, our team has developed a thorough understanding of the project. JTC staff have worked throughout Vermont, including central Vermont and have worked on multiple park and ride projects and other MAB projects in the area. We also have visited the project site and reviewed the following documents:


Chris Kaufman, our Program Manager and Senior Resident Engineer has nearly 30 years of engineering and construction experience. He has lived and worked in Vermont for over 10 years. He has worked as an engineer and project manager in many counties in Vermont including Lamoille, Caledonia, Washington, Addison, Rutland, Windsor, Windham, Bennington, and Orange. During his recently completed resident engineering work on the Dover Valley Trail Project with the Town of West Dover in 2016 and the Mad River Historic Covered Bridge and Road Reconstruction project with the Town of Waitsfield in 2015, he regularly coordinated with contractors, consultants, and state agency representatives. He worked closely with the Town Administrator/Municipal Project Manager to ensure that all infrastructure work was completed with minimal disruption to the public and local businesses. He maintained an updated project schedule and detailed cost tracking to allow the Town to make informed and timely fiscal decisions during construction. His work as the Site Resident Engineer and construction inspector was much valued by the communities of West Dover and Waitsfield.

Richard Seymour has worked on Park and Ride projects throughout Vermont and has not only worked within the Vermont MAB process but has actually worked as a construction project manager building park and ride sharing commuter facilities. Richard understands construction projects and would be a valuable team member providing much needed value engineering and constructibility insights to help eliminate cost overruns and project delays. Chris and Richard have visited the project site and have extensive experience overseeing infrastructure projects for the State of Vermont and Northern New England.
4. Project Scope

JTC will comply with all items listed in the Scope of Work. The following is an overall task summary:

Task 1 - Administration

JTC understands the importance of administration duties in all engineering and inspection projects. Prior to the beginning of construction, the JTC Resident Engineer will review all project plans and specifications as well as ensure all pre-construction submittals and permits are in place. We would maintain regular communications with the Town of East Montpelier MPM representative and all designated parties (including the design engineer, contractor, and VTrans) throughout the duration of the project. We would also attend all required meetings (both pre-construction and pre-bid) and prepare necessary reports and site documentation. JTC is highly skilled at reviewing shop drawing submittals for conformance with design requirements, tracking of site quantities, maintaining a project file, and other duties as outlined in Task 1 of the RFP. As in all of our prior completed Vermont MAB projects, JTC will conduct project meetings at a minimum of every two weeks and maintain all meeting documentation; create a comprehensive photographic library and daily log of construction activities; track and review all federal DBE requirements and Davis Bacon wage reports; provide substantive input and value engineering on design and construction activities; maintain and review submittals for all material certifications; review and prepare all contractor progress payments; maintain an updated project schedule and cost tracking documentation; and present updated construction costs and schedule updates to the Town MPM. As a part of the final closeout, JTC electronically will submit all of project documents including but not limited to: change orders, wage certifications, material testing reports, material certifications, meeting minutes/agendas, project photos, daily reports, a final record drawing of changes and/or modifications to the final design, and the Substantial/Final Certificate of Completion.

Task 2 - Construction Inspection

As a part of JTC’s superior field construction oversight services, our Resident Engineer will be onsite regularly and as necessary to ensure that all work is performed per the design plans and specifications and per state and federal regulatory requirements. Our Resident Engineers and Construction Inspectors have many years of experience with project management and regulatory compliance. All federal, state, and local permits will be reviewed to maintain a high level of regulatory compliance onsite including erosion and sediment control, storm water management, and OSHA compliance. During ongoing construction, the JTC Resident Engineer will verify all construction activities are built to accurate lines and grades per the design drawings and specifications. All borrow material storage and staging areas will be regularly inspected. Materials proposed to be used by the contractor will be reviewed and tested per the requirements of the engineer, applicable specifications, and state requirements. JTC will ensure all private property and easement agreements are maintained and respected during construction. JTC will track and assist in any utility relocation and plot new locations on the final record drawing. While onsite JTC will
verify all traffic control measures comply with VTrans and MUTCD requirements. All traffic control personnel will be checked to verify certification and all traffic control deviations will be immediately corrected to ensure safety to the contractors and driving community.

JTC will review all safety methods and activities by the Contractor to maintain a safe work environment for both the public and the workers onsite. All traffic control and erosion control methods/operations will be carefully noted and any safety or environmental issues will be immediately brought to the attention of all parties. Finally, upon substantial completion of the work, all final inspection activities will be coordinated with the contractor's representative to allow the contractor time to modify and/or correct items onsite prior to demobilization. These items will be tracked with a "punch list" and verified as completed onsite.

**Task 3 - Materials and Equipment Inspection and Testing**

Supporting our Resident Engineers in the field is JTC's Materials Testing Services. JTC will plan on using our in-house laboratory for all materials testing via our Vermont laboratory in either of our White River Junction or South Burlington, Vermont locations. Our staff will provide support as needed by checking that all materials submitted are pre-approved on the current VTrans Pre-Approved Materials List or on the List of Materials with Advanced Certification and are otherwise fabricated and tested in accordance with contract documents in advance of installation. Moreover, JTC will verify compliance with applicable quality assurance and material sampling requirements, VTrans Inspection Quality Assurance Program (QAP) and Materials Sampling Manual (MSM) to ensure quality is maintained in the work. All material sampling test reports and certificates will be submitted to the project team for decision on acceptability. It is our understanding that the material testing and acceptance will be in accordance with Level 3 of the VTrans MSM.

**Summary of Labor Hours**

Based on the RFP dated March 8, 2017, the project site activities will occur between June 15 and September 30, 2017. Although the specific construction schedule and onsite work activities are the responsibility of the construction contractor, **JTC will work closely with the contractor to maintain the project schedule and ensure completion of tasks in a timely manner.**

We anticipate that the assigned Resident Engineer (see resumes below) will spend approximately 45 hours a week on construction inspection tasks during the construction phase (estimated at 10 weeks), depending on the actual contractor schedule and onsite activities. **If construction activities are such that only minor activities will be completed during a specific work period, JTC will coordinate with the contractor to limit our onsite time, thereby reducing our overall costs to the Town of East Montpelier.** During the pre-construction and close-out phases of the project, we anticipate the assigned
Resident Engineer will be involved as needed to provide administrative support to review project plans and specifications, initiate project kickoff and provide proper close-out documentation.

Depending on the actual construction schedule and work activities onsite, one of our testing technician(s) (see the resumes of our technicians below) will be onsite **only** during the soil and gravel compaction and concrete phases of the work. **JTC will work closely with the contractor to coordinate on-site material testing activities in a manner as to limit excessive technician time and ensure that material testing is completed efficiently, accurately, and results provided in a timely manner as to not delay onsite construction activities.**

### Summary of Labor Hours Per Task

<table>
<thead>
<tr>
<th>Scope of Work</th>
<th>Resident Engineer (hours)</th>
<th>Materials Testing Tech. (hours)</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task 1 – Administration</strong></td>
<td></td>
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</tr>
<tr>
<td>All administrative duties including but not limited to: contract and plan review, meetings, record keeping, change orders, progress payments, federal compliance requirements, final quantities, etc. per Task 1 of the RFP.</td>
<td>32</td>
<td></td>
<td></td>
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<tr>
<td><strong>Task 2 – Construction Inspection</strong></td>
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<tr>
<td>All construction inspection duties including but not limited to: oversee construction activities for compliance, as-built development, permit compliance verification, staging/borrow area review, traffic control review, erosion control review, work inspection and documentation per Task 2 of the RFP.</td>
<td>450</td>
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<tr>
<td><strong>Task 3 – Materials &amp; Equip. Insp. &amp; Testing</strong></td>
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<tr>
<td>All materials &amp; equipment inspection &amp; testing including but not limited to: check material/equip per VTrans QAP/MSM, check materials submitted per VTrans pre-approved list, and record material certifications per VTrans procedures per Task 3 of the RFP.</td>
<td>8</td>
<td>24</td>
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<tr>
<td><strong>PROJECT TOTAL</strong></td>
<td><strong>490</strong></td>
<td><strong>24</strong></td>
<td><strong>514</strong></td>
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</tbody>
</table>
5. Qualifications of Project Team

JTC has been in business since 1997 providing construction engineering and inspections, geotechnical engineering, environmental engineering, special inspections & materials testing services to public and private clients throughout New England. JTC has provided resident inspections of varying scope on over 500 projects throughout New England. Since 2003, we have provided these services for the NHDOT and Maine DOT (3-year - $7,150,000.) JTC has been awarded Construction Inspection Oversight multi-year Term Contracts with the City of Lewiston and Portland, ME and City of Providence, RI. To service our clients, we currently maintain a staff of 80+ well trained and certified technical professionals throughout our service area. JTC strategically hires staff in geographic locations to ensure our services are as efficient as possible for our clientele. JTC has more than doubled in size since 2010. JTC’s approach is to utilize one of the following experienced resident engineers for this project. Material site technicians will be utilized from an experienced pool of qualified JTC technicians. Resumes of these individuals are included at the end of this section. The following is an outline of our experienced resident engineering staff proposed for this project:

Chris Kaufman, CPESC – Program Manager/Resident Engineer - Chris has nearly 30 years of experience as a project engineer and construction manager for civil engineering projects including road, bridge, airport, and heavy construction. He has extensive experience in project management, environmental engineering, construction management, and contract development. Chris has been managing our Vermont Resident Engineering Program since 2014. He has worked on numerous VTrans MAB projects for municipalities throughout Vermont.

Rich Seymour – Resident Engineer - Mr. Seymour has nearly 15 years of construction and project management experience. Rich has significant experience in VTrans construction projects including roads, sidewalks, granite curbs, water main upgrades, paving, park and ride shelters, and stormwater conveyance piping. Rich has worked in many local communities, towns, and cities throughout Vermont. Rich has provided construction and project management oversight on numerous VTrans park and ride projects throughout Vermont including Putney and Springfield, Vermont.
Chris has nearly thirty (30) years of experience (4 years with JTC) as a project engineer and construction manager for civil engineering projects including road, bridge, airport, and heavy construction. Chris has extensive experience in project management, construction management, environmental engineering, permitting, and contract development.

EDUCATION
Bachelor of Science, Geological Engineering, Missouri University of Science and Technology
Masters Studies, Environmental Engineering, Kansas University

LICENSES AND CERTIFICATIONS
- Licensed Vermont Engineer (pending Fall 2016 exam)
- Certified Professional in Sediment and Erosion Control, #00008016
- NETTCP Certified Concrete and Asphalt Inspector and Nuclear Gauge Testing
- Vermont Agency of Transportation Contractor Inspection Training
- Sediment Capping and Dredging Operations Seminar
- Endangered Species Act Review and Regulatory Program Impacts Seminar
- Chlorinated Solvent Contamination and Treatment Program
- On-Scene Incident Command Training
- USEPA On-Scene Coordinator Readiness Training Program
- 8-Hour Refresher Course, Hazardous Waste Site Operations
- 40-Hour Incident Command System Series Course
- United States Coast Guard Crisis Management Awareness Training
- Hazardous Material Transportation Accident Seminar
- CPR Training and Basic First Aid
- Department of Transportation Hazardous Materials Course
- Excavation and Trenching Competent Person Course
- 40-Hour Hazardous Waste Site Operations Training Course

CHRIS KAUFMAN, CPESC
Program Manager/Senior Resident Engineer

Representative Project Experience:
Rutland City Center Project – Rutland, VT – Resident Engineering Manager providing project management and engineering overite for roadway, sidewalk, and streetscape improvements for the construction of the Center Street Marketplace. The Project will be the result of the rehabilitation of the area known as “Center Street Alley.” This project is funded by an earmark from Senator Patrick Leahy and grant is administered by the Rutland Redevelopment Authority. The project consists of excavation/fill, re-establishment of new subgrade, upgrade and relocation of utilities, new pavement, lighting, stormwater upgrades, benches, decorative gates and fences, fountain and other amenities.

Valley Trail Project Segment A – Dover, VT – Performed project management and construction management duties for a roadway, sidewalk, and streetscape improvements for the length of approximately 2,086 feet along Route 100 in West Dover, Vermont. The project included approximately 1,925 linear of concrete sidewalks, 1,300 linear feet granite curbing, 1,200 linear feet drainage piping, 12 catch basins, bituminous asphalt paving, sub-base preparation, guardrail reset and replacement, pavement markings, detectable warning surfaces, crosswalk enhancements, road signs, electrical conduit, and 21 street lights.

VTrans State Route 7 Construction – Brandon to Pittsford, VT – Resident and environmental engineering inspection services for the construction of 2.5 miles of State Route 7 in Brandon, Vermont. Services included: environmental permit review, development of wetland impact assessments, and storm water and drainage inspections. Onsite inspection services included: survey verification, roadway reconstruction, drilling and blasting ledge, storm water culvert construction, intersection reconstruction, precast concrete culverts, hot mix asphalt placement, signage placement, and pavement markings.

VTrans State Route 7 Intersection and Bridge Reconstruction – Rutland, VT – Resident engineer for the construction of a new poured in place concrete overpass and reconstruction of an intersection in Rutland Township, Vermont. Services included: earthwork construction oversight, survey verification, roadway reconstruction, concrete inspection and testing, storm water culvert construction, intersection reconstruction, hot mix asphalt placement, signage placement, and pavement markings.

Covered Bridge Reconstruction and Storm Water Project, - Town of Waitsfield, VT– Work performed under this project included rehabilitation of the Village Covered Bridge, installation of a new steel pedestrian bridge, concrete abutment repairs and widening, construction of a new concrete retaining wall, installation of guard rail, reconstruction of the Bridge Street pavement, construction of concrete sidewalks, installation of granite curbing, drainage improvements, and incidental items.
RICHARD SEYMOUR
Project Manager

Highlight of Representative Project Experience:

Vermont AOT Projects

Village of Bellows Falls School & Henry Street Waterline Replacement

Project Manager for the replacement of approximately 5000LF of ductile iron water main and appurtenances; Project also included temporary water system for approximately 40 residences, new ¾” CTS service to each residence, complete pavement overlay. Worked collaboratively with the Town Manager and Design Engineer to provide submittals per the project specifications, procure materials & equipment, manage site visits & meetings, and prepare project payment requisitions & schedules.

Putney CMG PARK (26) – Putney Park & Ride

Project Manager for the construction of a new park and ride facility, including new subbase, pavement, markings, signage, lighting, bus shelter, landscaping, and other highway related items. Submitted Vermont AOT certifications and procured onsitied materials.

Springfield CMG PARK (32) – Springfield Park & Ride

Project Manager for the reconstruction of the existing park and ride lot, constructing a bus shelter, relocation of existing shared use path, pavement markings, lighting, landscaping and other highway related items. Provided Vermont AOT certifications, procured materials, and provided schedule updates.

Woodstock ER 0241 (40)

Project Manager for the reconstruction of the southerly side slope and riverbed, stream diversion, removing and replacing guardrail, cold planning, paving, traffic control plan, and other highway related items along Route 12 in Woodstock, VT. Provided Vermont AOT certifications, procure materials, and regularly managed and updated the project master schedule.

Putney Vermont Safe Routes to School

Installation of sidewalk, cross walk & speed limit digital signage, and new finish gravels at Putney Central School entrance. Worked closely with the Town Manager and the Engineer to provide submittals per the project specifications, procured materials & equipment, conducted site visits &
meetings, provided Vermont AOT certifications, and prepared project payment requisitions & schedules.

**Rockingham IM 091 (71) – Route I-91 Project**

Construction of roadside catchment ditch and ledge removal with extensive traffic control plan on Route I-91 Southbound. Provided Vermont AOT certifications, procured materials, and provided project schedule updates. Designed and implemented traffic control plan and rolling road block plan.

**Dover Valley Trail Project STP EH12 (3)**

Grading, subbase, new vertical granite curbing, Portland cement concrete sidewalk, new catch basins, new storm pipe, driveway reconstruction, and other highway related items. Worked in conjunction with the Town Manager and the Engineer to provide submittals per the project specifications, procured materials & equipment, took part in site visits & meetings, provided Vermont AOT certifications, and prepared project payment requisitions & schedules.
Christopher Cote is a Precast/ Prestressed Plant Inspector for our West Hartford, VT office as well as performing Special Inspections. Christopher has more than 14 years (5 years with JTC) of experience in building and highway construction QA/QC, as well as, fabrication plant inspections. Chris has performed PCI fabrication plant inspection for more than 40 projects.

EDUCATION
Bachelors of Science Degree with a major of Architectural Engineering Technology, VT Tech College, 2005
Associates of Applied Science with a Major in Arch. and Building Eng. Technology, VT Tech College

LICENSES AND CERTIFICATIONS
- PCI Level I and II
- OSHA 10-Hour Course
- NETTCP Soil and Aggregate, HMA Paving Inspector, Concrete Technician
- ICC Reinforcing Concrete Inspector, Structural Masonry Special Inspector, Spray Fireproofing
- Q/C Training Course Certification of Nuclear Moisture/Density Equipment
- ACI Level I

CHRISTOPHER COTE
Lab Manager, Senior Inspector

Bridge Projects (QC for contractor)
Cross Street Bridge, Middlebury VT
I-91 Windsor Bridge, Windsor VT
I-89 Milton Bridge, Milton VT
I-91 Brattleboro Bridge, Brattleboro VT
Town of Bristol, NH. Main Street Bridge
I-89 Richmond, VT Bridge
Route 4 Bridges, Lebanon, NH

VTRANS: more than 20 projects including:
- Next Beams – Stowe, VT – JP Carrara and Son’s;
- Box Beams – Middlebury, VT Cross Street. Bridge – JP Carrara and Son’s; Bulb Tee Girders – Middlebury, VT Cross Street Bridge – JP Carrara and Son’s; and Box Culvert/Wing Walls – Warren, VT – SD Ireland

MASS DOT
- Box Beams – Bourne, MA – JP Carrara and Son’s; Bulb Tee Girder – North Hampton, MA
- JP Carrara and Son’s; Box Culvert/Wing Walls – CSI plant – Hudson, NH; Barrier – CSI plant – Hudson, NH; and
- MSE Wall Panels – WM. E. Daily Precast.

NHDOT
- MSE Wall Panels – Manchester, NH – WM. E. Dailey Precast and SIP Panels –Portsmouth, NH –
- JP Carrara and Son’s.

MAINE DOT
Bulb Tee Girders – Martins Point Bridge – JP Carrara and Son’s
Building Inspection Projects:
- Hypethern, Lebanon, NH: 120,000 s.f. manufacturing building valued at $25M
  - Dartmouth College McLaughlin Cluster - $75M
  - Dartmouth College Class of 1978 Life Sciences Center $100M
  - Dartmouth College Tuck Living and Learning Center $40M
  - Dartmouth-Hitchcock Medical Center, Emergency/Pediatrics/Cancer Wing Expansion $100M
Eric is a Field Technician at John Turner Consulting performing quality control for concrete, HMA paving inspections and soils testing for compaction. Eric has 3 years of experience with JTC.

Eric served in the United States Air Force from 2012-2013.

EDUCATION
SUNY Canton - Canton, New York – Criminal Justice Studies

ERIC KEENAN
Field Technician

Representative Project Experience:
Waterbury State Office Complex – Waterbury, Vermont
Field Technician involved with the QC testing for this major renovation project. The project involves the deconstruction of over twenty buildings in the Winooski River flood plain, restoration/ major renovation of the remaining historic buildings, construction of a new office building and a new central plant, dry flood proofing of all buildings to above the 500 year flood level, and construction of almost all new site infrastructure elements. The current total construction cost estimate is $175M.

John Turner Consulting Sharon, Vermont 05065
Field Technician 05/2015-present
Perform Quality Control for Concrete
Perform soils test for compaction
Performs HMA paving inspections
Second representative onsite under the supervision of Jason Keenum

John Turner Consulting Sharon, Vermont 05065
Field Technician 09/2014- 11/2014
Perform Quality Control for Concrete
Perform soils test for compaction
Second representative onsite working under the supervision of Jason Keenum

John Turner Consulting - 2014
VTrans Design/Build Bridge – Milton, VT
QC Testing for Testing for Tetra Tech
Trained on concrete and soils testing with Chris Cote and Sean Crowley
Sean Crowley is a Precast/Prestressed Fabrication Plant Inspector. Sean has extensive knowledge of Quality Control/Quality Assurance practices and procedures in construction materials testing in both the field and lab. Sean has 13 (4 years with JTC) years of experience on commercial job sites working with building inspectors, project managers, engineers, subcontractors and DOT representatives performing special inspections, materials testing, reading blue prints as well as reading and understanding AASHTO and ASTM standards and properly carrying out tests accordingly in a timely manner.

CERTIFICATIONS

- PCI Level I & II Troxler Nuclear Density Gauge Operator
- NETTCP Soils & Aggregate Field Inspector
- NETTCP HMA Paving Inspector
- NETTCP HMA Plant Inspector
- NETTCP Concrete & Aggregate Technician
- NETTCP Concrete Inspector
- American Concrete Institute Concrete Field Testing Technician
- OSHA 10 Hour

SEAN B. CROWLEY

Senior Technician

VTRANS: Sean performs both precast/prestressed HMA plant inspection at various plants for VTRANS.

NHDOT: Sean has provided QA Precast and Prestressed Plant Inspection for several NHDOT projects at various plants.

NHDOT: Sean has provided concrete and soils testing for numerous NHDOT projects along Route I93.

Waterbury State Office Complex: Sean has provided soils and compaction testing for this $125M project.

Keene Airport: Sean has provided soils and concrete testing at several airports including Keene NH for Stantec Consulting.

City of Worcester, Massachusetts – Utility trench testing and sampling services to the City of Worcester-Department of Public Works.

Massachusetts Port Authority – Hanscom Airfield H219 Old T-Hangar Pavement Field and lab testing for a portion of the perimeter road and Hanscom field. JTC provided various testing services for soil/aggregate compaction and bituminous asphalt paving.

Massport Authority - Framingham Parking Garage – Framingham, MA - Construction materials testing and inspection services for the Logan Express Framingham (LEX-FRAM) parking garage.

SawTooth Parking Garage Claremont NH (new building)
Soils inspection with lab work and placement
Rebar inspections
Concrete inspections field and plant

City of Providence Rhode Island Construction Management and Resident Inspection Services
Construction Management contracts in 2013 with construction costs totaling over $7,000,000 with the City of Providence Public Works Department. In 2014 JTC was invited back for additional work as part of their 40 million dollar City Roadway Improvement Program.
ADAM ALLEN

Field Technician

Representative Project Experience:

**Waterbury State Office Complex – Waterbury, Vermont**
Field Technician involved with the QC testing for this major renovation project. The project involves the deconstruction of over twenty buildings in the Winooski River flood plain, restoration/major renovation of the remaining historic buildings, construction of a new office building and a new central plant, dry flood proofing of all buildings to above the 500 year flood level, and construction of almost all new site infrastructure elements. The current total construction cost estimate is $175M. Second representative onsite under the supervision of Jason Keenum

**DN Tank Project – Berlin, Vermont**
Technician in Charge of field testing concrete as well as breaking cylinders for the project.

**Vermont Technical College:**
Final Project: Survey and draft Langevin site using a total station.

**Construction Management Software:**
Proficient in estimating spreadsheets with Excel and familiar with scheduling with MS Projects.

**Estimates:**
Familiar with estimating practices and RS Means Software.

**Former employers:** SD Ireland, Engelberth Construction, Army National Guard and EC Construction.

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Adam is a Field Technician at John Turner Consulting performing quality control for concrete, HMA paving inspections and soils testing for compaction. Adam has 3 years of experience with JTC.

**EDUCATION**
Vermont Technical College
Randolph Center, VT
AAS in Construction Management

**CERTIFICATIONS**
Troxler Nuclear Density
OSHA 10
ACI Field Technician
5. **Experience with Federally Funded & VTrans Projects**

**Federally Funded Projects**

JTC personnel have been involved in many federally funded transportation construction projects in Vermont and throughout New England. These projects have followed all required federal aid construction contract requirements such as non-discrimination, Davis Bacon Provisions, construction safety standards, implementation of the Federal Clean Water Act, equal opportunity regulations, fair wage verification requirements, and federal highway standards.

*Our proposed project team has a strong working knowledge of Federal regulations involved in projects that affect design, permitting, environmental impact, ROW, and construction including but not limited to:*

- CFR Title 23 (Federal Highways), Title 49 (Transportation)
- Manual on Uniform Traffic Control Devices (MUTCD), Federal Highway Administration
- 28 CFR, Part 36, American with Disabilities Act
- National Environmental Protection Act
- AASHTO Guide for Design of Pavement Structures & Specifications for Highways
- AASHTO Roadside Design Guide
- Section 106 of the National Historic Preservation Act
- Section 4(f) of the Dept. of Transportation Act
- Section 404 (Wetlands) of the Federal Clean Water Act

*JTC has provided construction inspection services for more than 500 federally funded projects. Below are examples of recent Federally Funded projects in the region:*

- Border Patrol Project in Swanton and Canaan, Vermont
- City Center Project – City of Rutland, Vermont
- Valley Trail Project Segment A – Town of Dover, Vermont
- Saxton River Safe School Project – Town of Rockingham, Vermont
- Covered Bridge Rehabilitation & Road Reconstruction - Town of Waitsfield, Vermont
- Multimodal Connection Project, Jericho, Vermont
- 3-year term contract with the City of Portland, Maine
- Construction Inspection contracts with the MaineDOT for Highway, Bridge & Multi-modal
- 3-year term materials contract with VTrans
- 5-year term contract City of Providence, Rhode Island Public Works Department
- 5-year term materials contract with CTDOT
- 2-year term materials contract with NHDOT
- More than 40 projects at the Portsmouth Naval Shipyard
- More than 10 projects at the Pease Air National Guard
- Army Reserve Center in Portsmouth, NH
- $175 M Waterbury State Office Complex, Vermont
- Over 100 Construction Inspection projects for local municipalities throughout New England

*Our project team has significant experience with most Local and State regulations, polices, and guidance documents that potentially could impact municipal construction projects in terms of construction inspection, permitting, environmental impacts, and construction. Those include but are not limited to:*
6. **Means for Servicing the Project**

Unlike many engineering firms that offer construction inspection services as a sideline, JTC’s is primarily an inspection and materials testing firm. Currently, JTC has a staff of about 80 professional/technical staff, most with the multiple certifications vital to the proper inspection and testing required. JTC is the only Army Corps of Engineers validated testing laboratory in Northern New England. Our White River Junction facility is approximately 60 miles from the project and our South Burlington facility is only 55 miles from the project site. We can meet all unanticipated needs if they arise.

In support of our field staff, JTC maintains an in-house laboratory facilities meeting requirements of Army Corps of Engineers, AMRL & CCRL for AASHTO R18, ASTM C1077 Concrete and Aggregates, ASTM D3666 Hot Mix Asphalt (HMA), and ASTM D3740 Soils. This insures that samples will be tested by a firm meeting the highest Laboratory standards in the industry. Our Laboratory can test and evaluate concrete, asphalt, masonry, soils, fireproofing and steel, as well as miscellaneous materials such as wood. In addition, our laboratory and field equipment are calibrated against standards registered with the National Institute of Standards and Technology (NIST). We maintain a strict quality control program, and all documentation verifying calibrations and procedures are found in our Quality Control Manual.

JTC will provide all inspection and testing necessary for the completion of our work. JTC will use digital photography equipment to compile a photo digest of the project. Additionally, all our Resident Engineers are OSHA trained and furnished with the required safety equipment (vests, hard hats, work boots, vehicle warning lights, etc.), smart phone, and laptop computer. JTC has in-house technicians that will utilize nuclear density gauges for onsite density testing of soils and subbase gravels. For this project (Level 3 project requirements) box samples of HMA and concrete cylinders will be picked up and brought to our laboratory for asphalt content/gradation and compressive strength testing, respectively. All proposed earth borrow, sands, topsoil and gravel materials will be tested to ensure that they meet the project specifications and VTrans QAP and MSM requirements.
JTC feels that one of our true strengths is that we are large enough to have the staff, experience, knowledge, and resources to provide effective and efficient professional services but small enough with a local philosophy so that each of our clients are treated with the attention and care they deserve because we truly value these relationships.

7. **REPRESENTATIVE PROJECTS**

**CONNECTICUT DOT:**
JTC received Pre-Qualification Status with the Connecticut Department of Transportation to provide Construction Engineering and Inspection for Roads and Bridges for the 2015 Calendar year. Furthermore, JTC provided inspection services on the first Design/Build bridge project in Connecticut starting in 2015. **JTC just received word that we are once again prequalified for Road and Bridge Construction Inspections for 2017-2018.**

**Valley Trail Segment A Project – Dover, VT**
In 2016, JTC signed a contract with the Town of Dover, Vermont to perform construction management and resident engineering duties for this VTrans LTF funded project. This project included sidewalk roadway, and streetscape improvements for the length of approximately 2,086 feet along Route 100 in West Dover, Vermont. This project included approximately 1,925 linear of concrete sidewalks, 1,300 linear feet granite curbing, 1,200 linear feet drainage piping, 12 catch basins, bituminous asphalt paving, sub-base preparation, guardrail reset and replacement, pavement markings, detectable warning surfaces, crosswalk enhancements, road signs, electrical conduit, and 21 street lights. JTC performed all contract management functions such as evaluation of subcontractors, contractor invoice review, permitting compliance, maintenance of contract files, federal-aid DBE compliance, safety reviews, flagger monitoring, development of change orders, and schedule reviews. In addition, JTC conducted value engineering support, survey documentation, onsite inspections, and project closeout.

**Contact:** Town of Dover, VT - Ken Black, Economic Development Dir. - Dovereds@dover.net/802-464-5100

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Chris Kaufman from JTC Consulting was hired as a resident engineer to oversee a sidewalk and catch basin project in Dover, Vermont. Chris was extremely diligent about his work and demonstrated not only an expert level of understanding in civil engineering, but a high degree of ethics while performing his duties. Chris was very easy to talk with and communicated well with construction workers, the design engineer and the municipal workers. Chris was onsite continuously and made effective suggestions for changes that improved the original design. Chris tracked hours during the construction and ensured that workers were getting paid appropriately based on the standards dictated by the Federal grant that funded the project. I would highly recommend Chris for the role of resident engineer and would use him again as the need occurs.

Ken Black - Director, Economic Development
Town of Dover, VT
**Historic Covered Bridge Rehab/Bridge**

My experience in working with John Turner Consulting, Inc. has been very positive. Notably, Chris Kaufman, as the onsite Resident Engineer has been a significant asset to the project. I have been impressed with his professionalism, engineering support, responsiveness, and problem-solving skills throughout the Covered Bridge Rehabilitation/Bridge Street Enhancement project. In multiple instances, Chris discovered project engineering omissions and errors that were resolved to eliminate cost overruns and maintain the project schedule.

Valerie Capels, Town Administrator Waitsfield, Vermont

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**Street Enhancement-Waitsfield, VT**

In 2015, JTC was selected to provide Resident Engineering oversight for this VTTrans LTF funded project representing the Town of Waitsfield, VT. Specifically, the project involved the partial removal of the existing timber covered bridge and replacement with a new prefabricated steel multimodal cantilevered structure allowing for both pedestrian and bicycle use simultaneously. Several damaged concrete abutments and a retaining wall structure were replaced and/or repaired with poured in-place reinforced concrete. New poured in-place reinforced concrete wingwalls were also added to eliminate erosive forces of the Mad River along exposed stream bank slopes. Approaches on Bridge Street were reconstructed with new concrete sidewalks, granite curbs, sub-base gravel, pavement, drainage inlets, ADA compliant access ramps, upgraded street marking, and signage. Upgraded underground stormwater collection piping was installed with a new outfall structure and permanent outfall protection measures. JTC's scope of work included: oversight and documentation of contractor's work; providing daily reports; review contractor payment requests; verify quantities; attend all regularly scheduled site meetings; prepare contractor payment requests; issue a Certification of Completeness; inspect and approve all construction activities; monitor erosion control; review and verify traffic control; provide materials testing as needed for all concrete, soils, and steel work; and provide as-built plans.

**Contact:** Town of Waitsfield, VT - Valerie Capels, Town Administrator - (802) 496-2218/townadmin@madriver.com

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**City Center Project – City of Rutland, VT** - In 2016, JTC was contracted by the City of Rutland, Vermont to provide Resident Engineering and engineering oversite for roadway, sidewalk, utility, and streetscape improvements for the construction of the Center Street Marketplace. The Project will be constructed in the Spring of 2017 and is the result of the rehabilitation of the area known as “Center Street Alley.” This project is funded by an earmark from Senator Patrick Leahy and grant is administered by the Rutland Redevelopment Authority. The project will consist of excavation/fill, re-establishment of new subgrade, upgrade and relocation of utilities, new pavement, lighting, stormwater upgrades, benches, decorative gates and fences, fountain and other amenities. JTC will perform onsite inspections; prepare daily reports; document site activities; track project quantities; verify materials; and provide contract management functions such as evaluation of subcontractors, contractor invoice review, maintenance of contract files, federal-aid DBE compliance, safety reviews, development of change orders, and project schedule reviews. In addition, JTC will conduct survey verification, as-built documentation, and project closeout.
Contact: City of Rutland, VT - Cindi Wight, CPRE, MR - 802-773-1822 ext. 15/cindiw@rutlandrec.com

Multi-Modal Connection Project Browns Trace Road Sidewalk – Jericho, VT

In 2015, JTC was selected for the Construction Inspection Services of the Jericho Multimodal Connection Project. Construction included a concrete sidewalk, concrete catch basins, retaining wall, cedar 3-rail fence and other related items for a pedestrian improvement project. During the project, JTC was on the site daily, as needed, to properly monitor site conditions; maintain communications; prepare daily reports; document site activities; track project quantities; and verify materials, quantities, correct placement, workmanship, protection, site safety procedures, environmental controls, and other pertinent issues. Among the issues that the Construction Inspector was responsible for from day to day was assuring that the contractor and their sub-contractors were following all the construction contract requirements and that all permits were in place. Any deviations from these documents was immediately reported to the Jericho Road Foreman and/or other designated Town officials either verbally or in the daily reports that were issued. JTC inspected staging area(s), materials approvals and storage locations for compliance with applicable approval standards and monitored erosion control on an ongoing basis to assure that it complied with permits.

JTC reviewed all final calculations and all other pertinent documents and issued a Certificate of Completion. This certified to the Town that the project was constructed as designed, in conformance with the project specifications, subject to appropriate revisions during construction, and required contract provisions. Our Resident Engineer was also responsible for red lining drawings as work was completed.

Contact: Town of Jericho, VT - Todd Odit, MPM - 802-899-9970 ext.3/todit@jerichovt.gov

Safe Schools Sidewalk Project – Town of Saxtons River, VT - In 2015, JTC provided Resident Inspection and Project Management oversight for the development of safe sidewalks for school children and local pedestrians in the Town of Saxtons River. The project included excavation/backfill, drainage controls, sidewalks, street curbing, street signs, pedestrian street markings, relocation of a baseball backstop, tree trimming, and erosion control measures. During the project, JTC was on the regularity to properly monitor site conditions; maintain communications; prepare daily reports; document site activities; track project quantities; and verify materials, quantities, review site workmanship, and oversee site safety procedures. The JTC resident engineer regularly communicated with the Municipal Project Manager (MPM) and the Highway Superintendent.

A final punch list was developed following an inspection to confirm that the contractor had achieved substantial completion. The “punch list” was monitored and updated until the items were found to be complete. JTC reviewed all final calculations and all other pertinent contract documents to issue a Certificate of Completion. This certified to the Town that the project was constructed as designed, in conformance with the project specifications. Our Resident Engineer provided a red line as-built drawing upon completion of the project.

Contact: Town of Rockingham, VT - Willis D. “Chip” Stearns II - 802-463-3964 x104/manager@rockbf.org
Construction Management, Construction Inspection- City of Providence, RI

From 2013-2016, JTC was awarded five Construction Management/Construction Inspection contracts with construction costs totaling over $10,000,000 with the City of Providence Public Works Department. Project Management responsibilities included; review of all daily reporting, reviewing all material testing reports to make certain all materials met specifications, review of Minority Business Enterprise (MBE/DBE) utilization, review of Fair Wage Law utilized by the City of Providence, biweekly meetings with contractor, utility companies, owner's representative, and DPW staff, review required First Source Labor Union utilization rates, meeting with contractors on-site to help solve critical changes in the field, reviewed all shop drawings for appr oval, reviewed all pay requests for approval, created budgets for construction and construction management to track city expenditures, pre-approved all change orders, and maintained all paperwork digitally on the Owner Representative's Project Share Site. JTC's project manager also assisted the City with reviewing project schedule and forecasting.

“This year’s road paving program was set on a very aggressive schedule and your firm met all the challenges from addressing construction and design issues, to providing additional staff.”

Natale Urso, Deputy City Engineer Providence, Rhode Island

Client: City of Providence, RI - Natale Urso, Deputy City Engineer - 401-467-7950/nurso@providenceri.com

Contracts 2, 4, 7, 9 and 11 and Downtown Circulator Project

JTC provided Project Management oversight and Resident Inspection for these contracts with a total construction value of more than $12M. Responsibilities included; meeting representation at all meetings, coordination of construction between the contractor and other utility construction, review of all project documentation prior to uploading to the Project Share Site, MBE/DBE review for compliance, First Source Apprentice review for compliance, pay requisition review and approval, shop drawing review and approval, budget projections, and the role of intermediary between contractor and City of Providence.

Scope of Work and Tasks Involved in the projects mentioned above include: Inspection of construction related items including removal and resetting curb, the construction of over 300 ADA handicap ramps, concrete and asphalt sidewalks, concrete and asphalt driveway aprons, full depth reclaim of roadways, trim and fine grade of reclaimed roads, micro-milling of roadways, installation of traffic cameras, traffic loops, concrete base repair, HMA placement of leveling course, placement of binder course, and top course placement, drainage structure repairs and replacement, sewer line and lateral repairs, water main and lateral construction and repair, clearing and grubbing, loam and seeding, street way finding sign installation, speed bump and signage construction, and adjustment of all structures prior to paving. Other responsibilities include thorough knowledge of plans and city and state DOT specifications, providing residents of the city with notifications of work scheduled, working with the residents of the city to alleviate their concerns, video entire project prior to construction, representation at all progress meetings with the contractor, accurate documentation of equipment and personnel on site daily, accurate and fair representation of quantities placed, alerting project manager of potential change orders for additional work, reviewing traffic control, flagger utilization, police detail utilization and tracking, hold pre and post pavement meetings with DPW and contractor, initial review of pay requisition application by contractor to assure quantities are accurately billed, create a punch list of items necessary to be completed prior to payment of contractor's pay request, initial review of Contractor's JMF, schedule material testing, and
meeting the extensive reporting and tracking requirements expected by the City of Providence DPW. JTC also assisted with project closeout documentation for each of our projects.

**MaineDOT - Multimodal Program: Highway Inspection, Construction Management and Support Services** - In 2010, JTC was awarded a $1.75 Million 3-year GCA Contract for providing professional services for the Multimodal Program including; highway inspections, rail inspections, Construction Management Support and Building Inspections for the Maine Department of Transportation. In 2015, JTC was awarded a $6,150,000 GCA 3.5-year Term Contract for Construction Management and Resident Inspections for Highway and Multi-Modal Projects.

**Responsibilities included:**
- **Highway inspection:** Design support, administration services and construction management of any highway segment or section, rail &/or building projects.
- **Fabrication inspection:** Production inspection precast concrete facilities to verify conformance with requirements; requiring inspectors to be qualified in accordance with the specifications.
- **Bridge inspection:** Construction inspection of highway bridge, suspension and complex bridge, railroad bridge and other transportation structures including use of nondestructive testing, existing condition load ratings, related support services and document development.

JTC has provided CM/Highway Inspection services on more than 85 projects since 2011.

**Client:** MaineDOT - LaRay L. Hamilton, P.E. - Project Manager, Region 1 - 207- 592-1367/ laray.hamilton@maine.gov

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**State Office Complex – Waterbury, VT**

JTC was contracted as the Special Inspections and Testing Agent to provide inspections and construction materials testing for the $175 million dollar Waterbury State Office Complex renovation and new construction project.

This project was the result of a major planning effort for the rebirth of the complex as Class A office space for the Agency of Human Services. The master plan included deconstruction of over twenty buildings in the Winooski River flood plain, restoration/major renovation of the remaining historic buildings, construction of a new office building and a new central plant, dry flood proofing of all buildings to above the 500- year flood level, and construction of almost all new site infrastructure elements. The project has been registered with USGBC and was designed to achieve LEED GOLD rating.

**Client:** Peter G. Hack – Dept. of Buildings and General Services – 802-828-3414/peter.hack@state.vermont.us

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**Proposal for Construction Inspection Services – East Montpelier Park & Ride Project – East Montpelier, VT**

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