NHDOT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION




Statewide On-Call Preliminary Engineering Prequalified List of Consultants for Locally Administered LPA Qualifications-Based Selection Contracts

LETTER OF INTEREST
& QUALIFICATIONS

January 2024

Weston & Sampson℠

westonandsampson.com

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7 Perimeter Road, Manchester, NH 03103
Tel: 603.263.9296

January 19, 2024

Tobey Reynolds, PE
Assistant Director of Project Development
New Hampshire Department of Transportation
PO Box 483 | 7 Hazen Drive
Concord, NH 03302-0483

Re: **Statewide On-Call Preliminary Engineering Prequalified List of Consultants for locally administered Local Public Agency (LPA) Qualifications-Based Selection Contracts**

Dear Mr. Reynolds:

Weston & Sampson is pleased to submit this updated Letter of Interest for prequalification to provide highway and bridge design services for Local Public Agency (LPA) transportation projects throughout the State of New Hampshire. As a full-service, multi-discipline engineering and transportation consulting firm, we have the resources and commitment to provide quality services under this contract. Highlights of our qualifications include:

- **Local responsiveness coupled with comprehensive engineering experience.** Ranked the 3rd largest engineering firm in the State of New Hampshire for 2023 by *Business NH Magazine*, Weston & Sampson takes pride in providing excellent client service to our New Hampshire clients with a focus on responsiveness and regional expertise. With a company-wide staff of over 800 professionals, local staff of over 80 professionals in our offices in Portsmouth and Manchester, and experience with the LPA program and requirements, we will work closely with Project Sponsors and NHDOT to develop the most feasible and cost-effective solutions to deliver projects on schedule and within budget.

- **Expert project management**. Our project manager, **Michael Croteau, PE (LPA Certification #1178),** has over 25 years of civil and structural engineering experience, including more than 22 municipal bridge projects constructed under the NHDOT municipally managed State Bridge Aid (SBA) Program. His most recent experience was with the construction of the *Oak Street Bridge Replacement project in Newport, NH*. Mike is familiar with the responsibilities for federal and state funded projects, understands the LPA process, program requirements and how to successfully collaborate with Project Sponsors, NHDOT project managers, and contractors.

- **Highly qualified team.** Mike will be supported by a team of other highly experienced transportation engineers, including transportation practice lead **Jeff Santacruce, PE, PTOE (LPA Certification #1038)**, and senior bridge designer and technical lead **Wade Brown, PE.** Jeff brings 30 years of roadway/traffic engineering design and management experience on NHDOT and municipal projects, while Wade offers 34 years' experience in a variety of unique and complex state and municipal bridge projects. Please refer to Appendix A for further details about our team's experience.

Based on our extensive experience with the types of projects that may be assigned under this contract, we are confident in our ability to meet and exceed your expectations. If you have any questions regarding our submittal, please contact Mike at 603-263-9296, ext. 2612 or at croteau.michael@wseinc.com.

Sincerely,
WESTON & SAMPSON ENGINEERS, INC.

Pompeo Casale, PE
Vice President

Michael Croteau, PE
Project Manager

PROJECT UNDERSTANDING & APPROACH

Weston & Sampson has the capabilities and experience for prequalification to complete projects under this NHDOT program – Statewide On-Call Preliminary Engineering Prequalified List for locally administered Local Public Agency (LPA) Qualifications-Based Selection Contracts. We understand this is a "Qualified List" for Project Sponsors (sub-recipients of Federal funds) that do not have the available resources or technical staff to dedicate to the project, and therefore are in need of a qualified design consultant to assist with management, design, permitting, and other related services for the project. Our staff engineers have experience working with the Department for more than 22 years on projects for the various Bureaus under the Division of Project Development in the communities of Bradford, Deering, Portsmouth, Newport, Windham, Washington, and many others. We are also very familiar with the requirements of the ***NHDOT Process for both the Municipally Managed State Bridge Aid Program and the State Highway Aid Program.***

We know that LPA certification is required for these projects, but also realize how important it is for the project sponsors and their consultants to have full understanding of the program requirements prior to starting the project. We have LPA certified staff who are knowledgeable in the requirements to assist local communities with their projects. *Our staff have supported communities on many projects including, but not limited to, the Breezy Hill Road Bridge replacement project in Bradford, NH; the main street rehabilitation project in Wilton, NH; and the Peverly Hill Road intersection and roadway reconstruction project in Portsmouth.* We understand that ***ongoing coordination*** with the Project Sponsor and the Department regarding budget, scope of work, schedule, activities, and execution of work is critical and needs to be consistent and timely in order to meet the program requirements as well as the goals of the community.

We understand NHDOT's LPA Funding Program and potential projects could come from programs such as Congestion Mitigation & Air Quality, Transportation Alternatives Program, Surface Transportation, Municipal Off-system Bridge Replacement & Rehabilitation, Highway Safety Improvement, Emergency Relief, and Regional Planning Commissions. Our staff has assisted Regional Planning Commissions and local communities to prepare program applications, provide exhibits and design and construction estimates for planning purposes.

We know that an LPA Agreement will need to be executed once a project has been selected for funding, and that a scoping meeting will be held to define the project and allow the community to start the QBS process to select a Qualified Consultant to assist with the design process. Our staff, based on past experience, will work effectively to develop a scope and manhour estimate that the Project Sponsor can use to develop their Independent Government Estimate (IGE) and work to successfully agree on a final scope and fee for submission to the Department for review and approval. Once a NTP has been issued, the Preliminary Engineering / Design Development Phase of the project can begin. Local Public Agency budgets are divided into three phases for infrastructure projects: ***Preliminary Engineering (PE), Right-of-Way (ROW), and Construction (CON).*** NHDOT defines the PE Phase of project development to include tasks for the engineering study, preliminary design plans followed by plans, specs, and estimate (PS&E), Final Plans and Bid Package, Environmental Reviews, Permitting and ROW. After each submittal, a review and comment period by the Department is mandatory to confirm the developed plans meet the project scope, budget, specifications and identify any proposed elements that may be non-participating items. Our experience has shown that an over the shoulder review of the comments is very helpful in expediting the comment review process, as many times Department questions and concerns can be addressed on the spot. We understand that approval by the Department is required "before" advancing the project to the next phase of design and costs performed without prior approval may be deemed non-eligible. ROW funds are available for property valuation, relocation assistance, documentation and or acquisitions relating to the project. ROW funds can only be authorized after the NEPA (National Environmental Policy Act of 1969) environmental review process has been completed. For projects involving construction costs, NHDOT defines Construction (CON) as the next phase of the project and starts when a Notice of Award (NOA) has been issued to the lowest responsive contractor, following a successful public bidding process is complete, and authorization to proceed is given by the Department.

PROJECT UNDERSTANDING & APPROACH

Our approach to all projects is to meet with the stakeholders, identify the scope of the work per the Municipal Agreement, and fully comprehend the project intent, established budget, and project constraints. This way, we can identify areas of concern where possible non-participating work may not qualify for reimbursement and adjust as necessary. We feel the best way to accomplish these goals is to Communicate with the Project Sponsor and the designated NHDOT PM regarding project development, schedule, and costs. Informing the community on progress, ***"holding public participation work sessions"*** and community outreach sessions are also a benefit to all involved. As consultants, we will provide professional engineering services to study, design and prepare construction documents that are code compliant, meet project defined specifications and program requirements in order to fulfill the Purpose and Need Statement established early on in the scoping process.

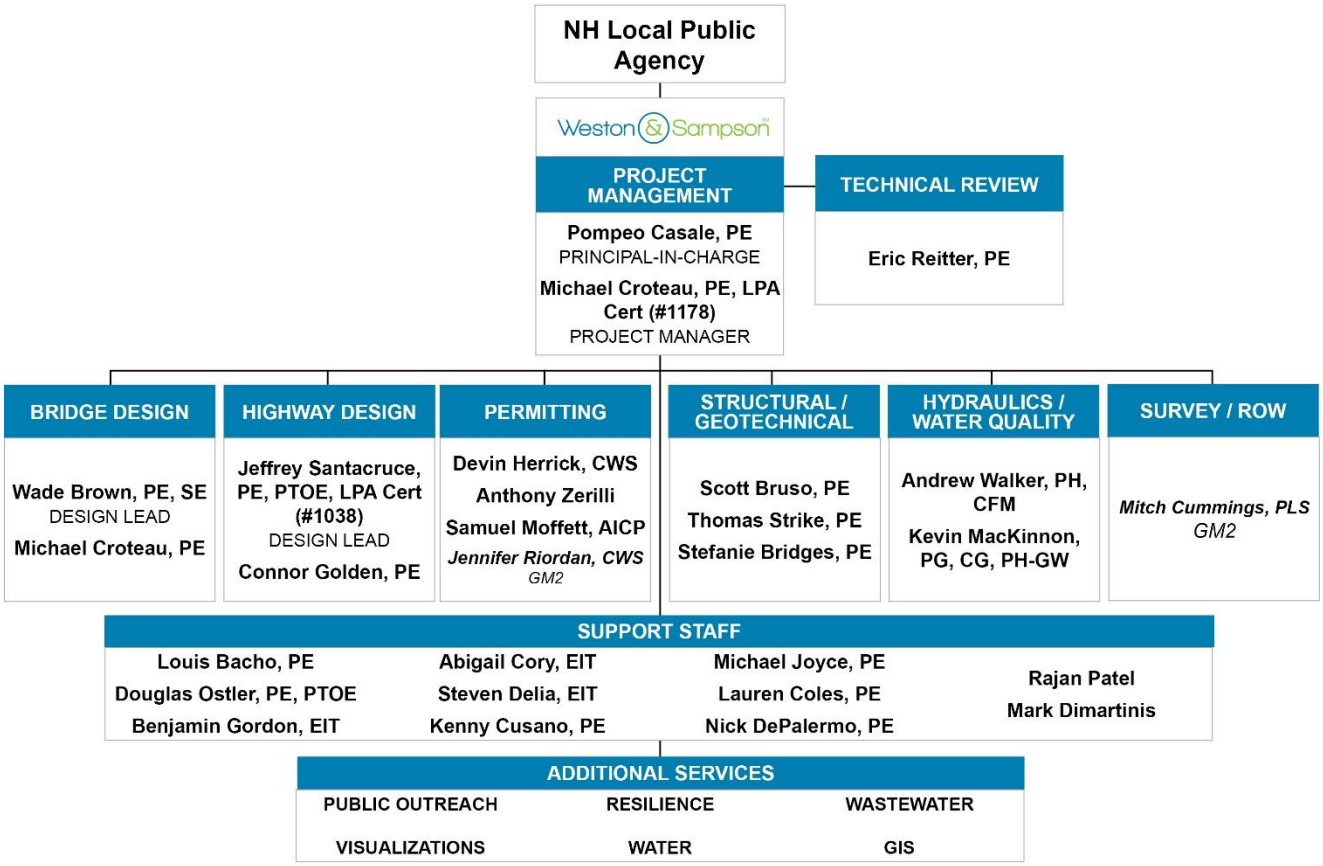
Whether providing traffic analysis, working with signalized intersections, designing geometric improvements, or designing roundabouts, our highway design team is ready to assist communities with the development of their project. We have worked on numerous roadway rehabilitation projects and intersection upgrade projects for the DOT and municipalities including upgrades to drainage, guardrail, and geometric safety improvements. Also, our senior bridge design staff have worked on projects in New Hampshire communities for over 20 years; these range from rehabilitation of smaller or multiple culverts to the replacement of major steel or concrete bridges. We will include the practical use of various ABC techniques to accelerate and/or stage construction, when appropriate. Our bridge staff understand the Department's process and are experienced in completing preliminary and final designs, developing contract plans and documents for bridge maintenance and preservation, rehabilitation, replacement, and construction for various types of bridge structures including steel, concrete and composite structures. After construction and prior to opening a bridge to traffic, our bridge staff is experienced in providing load rating calculations and completing the Bridge Rating Form 4 for new or rehabilitated bridges. Our highway and bridge designers work in tandem with our water resource designers to develop roadways and structures that meet design standards and are compliant, for example, with NH Stream Crossing Guideline Rules, hydraulic calculations, hydrologic parameters, and scour protective measures to provide cost-effective, long term, constructible solutions that meet Department and Municipal goals. With our synchronized transportation staff, roadway rehabilitations, drainage improvements and bridge rehabilitations or replacements can be addressed simultaneously as the project is developed, providing a comprehensive, timely solution.

To prevent potential delays in permitting, the NHDOT Natural and Cultural Resource Agency Coordination Meetings provide an opportunity for early coordination and problem solving on concerns that arise in the development of transportation projects. Throughout the design process, Environmental Permitting coordination is necessary to keep the project on track. Consultation meetings with regulatory agencies (Wetlands, Cultural Resources, Historic) early on in the design process identify specific areas that may require attention and specify obligations required by the Project Sponsor and or potential mitigations to be included in the contract documents.

Once a project phase is complete, we will assist the Project Sponsor with final reimbursement and submission of the project closeout documentation to the Department. All electronic files, submissions, approvals, Notices to Proceed, contracts and change orders will be continually saved and sent to the Project Sponsor. We understand for design and construction projects, documentation relating to the project, includes, but is not limited to, copies of paid consultant invoices and contractor payment requisitions, right-of-way costs, before and after project photos, certificates of compliance for installed materials, material testing, construction administration costs, final punch lists and project completion forms found in the LPA manual. ***Along the way, Weston & Sampson will assist the Project Sponsor in constantly communicating progress, development, and providing budget updates to the Department to be sure all eligible costs are participating and qualify for reimbursement.*** We know the importance of obtaining NHDOT pre-approval prior to advancing the work for costs to be considered eligible for reimbursement and ultimately result in a successful project.

ORGANIZATIONAL CHART

Weston & Sampson is pleased to identify the following team members experienced in Local Public Agency projects. **Project Manager Michael Croteau, PE**, **(LPA Certification #1178)** has over 25 years of civil and structural engineering experience and has overseen construction of many bridges under the NHDOT municipally managed State Bridge Aid (SBA) Program for State and Federally funded projects. Lead highway designer **Jeff Santacruce, PE, PTOE, (LPA Certification #1038)** brings 30 years of roadway/traffic engineering design and management experience on NHDOT and municipal projects. Lead bridge engineer **Wade Brown, PE**, offers 34 years' experience in a variety of unique and complex state and municipal bridge projects. Below, we provide our project team organizational chart, which outlines the roles and responsibilities of the entire full-service multidiscipline team.



In addition to the multidiscipline team identified above who will provide engineering services relating to work on LPA projects, we offer extensive in-house support services including environmental site assessment. We also acknowledge that additional subconsultants may be required, depending on specific task needs; these may include *water, noise and air quality testing, subsurface investigations / soil borings (driller), traffic counts, historic resource review,* and *archeological site assessments.* Weston & Sampson will propose to enter into agreements with these specialty subconsultants on a project-by-project basis based on the proposed scope of work, project location, and schedule.

PROJECT TEAM

Weston & Sampson team members who will be working or supporting projects are shown in the table below.

HIGHWAY & BRIDGE DESIGN ENGINEERING SERVICES IN SUPPORT OF LPA PROJECTS		YEARS OF EXPERIENCE	YEARS WITHIN FIRM	PROJECT MANAGEMENT	HIGHWAY DESIGN	BRIDGE DESIGN	STRUCTURAL ENGINEER	ALT. PROCUREMENT METHODS	CORRIDOR STUDY PLANNING	BRIDGE INSPECTION	BRIDGE LOAD RATING	HYDRAULICS / STORMWATER	ENVIRONMENTAL	TRAFFIC ENGINEERING	TTRAFFIC MANAGEMENT	GEOTECHNICAL ENGINEER	SURVEYOR/ROW	PUBLIC INVOLVEMENT
KEY PERSONNEL	**PROJECT ROLE**																	
Pompeo Casale, PE	Principal	44	7	◆	◆	◆		◆	◆			◆		◆	◆			◆
Michael Croteau, PE	Proj Mgr	26	4	◆		◆	◆			◆	◆							◆
Wade Brown, PE, SE	Bridge Lead	34	5	◆		◆	◆			◆	◆							◆
Jeff Santacruce, PE, PTOE	Highway Lead	30	5	◆	◆			◆	◆			◆	◆	◆	◆			◆
Connor Golden, PE	Highway Design	7	4	◆	◆				◆					◆	◆			
Devin Herrick, CWS	Permitting	10	5										◆					◆
Anthony Zerilli	Permitting	22	22										◆					
Samuel Moffett, AICP	Transportation/ NEPA	27	3	◆		◆							◆	◆	◆			
Scott Bruso, PE	Struct Engr	24	20	◆			◆			◆	◆							◆
Thomas Strike, PE	Geotech	26	11													◆		
Stefanie Bridges, PE	Geotech	13	6													◆		
Andrew Walker, PH, CFM	Hydraulics	18	15									◆						
Kevin MacKinnon, PG, CG, PH-GW	Hydraulics	26	19	◆								◆	◆					
Kenny Cusano, PE	Highway/ Traffic	9	8	◆	◆				◆			◆		◆	◆			◆
Nick DePalermo, PE	Highway/ Traffic	8	8	◆	◆				◆			◆		◆	◆			◆
Michael Joyce, PE	Highway	28	< 1	◆	◆			◆	◆						◆			◆
Lauren Coles, PE	Highway	12	8	◆	◆				◆			◆		◆	◆			◆
GM2 Associates, Inc	Survey/ROW	*	*														◆	

The following table summarizes the qualifications of our key team members and select support staff.

Key Personnel / Role / Certifications	Experience
Pompeo Casale, PE **Principal-in-Charge** Professional Engineer (MA#34110)	44 years' civil engineering, project management, permitting, design, and construction experience on a range of projects
Michael Croteau, PE **Project Manager** Professional Engineer (NH#12193) Local Public Agency Certification (#1178) NHDOT	26+ years' structural & civil engineering experience including bridge/culvert design, plan development, construction administration and inspection for many NH communities (Plymouth, Washington, Bradford, Weare, Newport, Windham) and structural design for retaining walls and a variety of structures
Wade Brown, PE, SE **Bridge Lead** Professional Engineer (NH#9456)	34 years' experience in the design / analysis of a wide variety of new/existing structures of many types and configurations / transportation projects constructed of wood, masonry, reinforced concrete, prestressed concrete, and steel
Jeffrey Santacruce, PE, PTOE **Highway Lead** Professional Engineer (NH#10650) Professional Traffic Operations Engineer (#4394) | Local Public Agency Certification (#1038) NHDOT	30 years' experience leading highway design and traffic engineering / transportation planning projects throughout New Hampshire, including work in Errol, Laconia, and Portsmouth, as well as six NHDOT roadway rehabilitation projects
Devin Herrick, CWS **Permitting Assistance** NH Certified Wetland Scientist (CWS) #300 / Certified Erosion, Sediment, Stormwater Investigator (pending)	10 years' experience focused on environmental conservation and permitting, as well as local vegetation, identification of hydric soils, and indicators of hydrology for projects in NH and throughout New England
Samuel Moffett, AICP **Transportation / NEPA Specialist** American Institute of Certified Planners	27+ years' experience managing the development and implementation of NEPA, MEPA, and permitting strategies for energy, environmental, and transportation clients
Thomas Strike, PE **Geotechnical Engineer** Professional Engineer (NH #13858)	26 years' experience with geotechnical engineering design, including roads, bridges, streetscapes, and dams, including for our project on Maplewood Ave in Portsmouth, NH
Connor Golden, PE **Highway Design** Professional Engineer (NH #17079)	7+ years' experience in the design of civil / site and transportation projects, including NH municipal projects in Laconia, Lebanon, and Keene, as well as several NHDOT projects
Andrew Walker, PH, CFM **Hydraulics / Water Quality** Professional Hydrologist (#18-H-9008) Certified Floodplain Manager	14+ years' experience specializing in water resources & hydrologic and hydraulic modeling, including for a roadway rehabilitation and culvert replacement project in Lincoln, NH
Kevin MacKinnon, PG, CG, PH-GW **Hydraulics / Water Quality** Professional Geologist (NH #613) Professional Hydrologist (#12HGW-4016)	24+ years' experience in water resource studies, analysis of groundwater systems, & groundwater/surface water interactions, including projects in Exeter, Dover, and Portsmouth, NH
GM2 **Subconsultant for Survey / ROW Tasks**	36 years' experience' in bridge, roadway, and airport existing conditions / topographic surveying, including in Lebanon, Manchester, and Portsmouth, NH

REFERENCES

Below, we provide contact information for three clients for whom our firm has performed consulting services similar in size and scope to those anticipated under this contract. We invite you to contact these references to discuss our transportation qualifications/abilities, as well as our responsiveness, past performance, and commitment to client service. Descriptions of the work completed for each client are included in Appendix A, *Resumes & Applicable Work Experience*.

Massachusetts Department of Transportation - Highway Division
John P. Fallon
Project Manager, Bridge Project Management Section
10 Park Plaza Suite 6500
Boston, MA 02116
857-368-9309
john.fallon@state.ma.us

City of Lebanon, New Hampshire
Brian Vincent, PE
City Engineer, Public Works Department
193 Dartmouth College Hwy
Lebanon, NH 03766
603-448-3112
brian.vincent@lebanonnh.gov

City of Laconia, New Hampshire
Wesley B. Anderson
Director of Public Works
27 Bisson Ave
Laconia, NH 03246
(603) 528-6379
wanderson@laconianh.gov

RESUMES

Below, we provide summary resumes for our key team members.

Pompeo Casale, PE | Principal

- Over 40 years of civil engineering, project management, permitting, design, and construction experience, including urban, rural, and interstate highways; traffic mitigation designs; and highway and bridge design/build projects
- Professional Engineer (MA)
- Bachelor of Science, Civil Engineering

Relevant Projects:

- **Owner Representative Program, MassDOT.** Manager of MassDOT's Owner Representative Program, which is responsible for oversight of all state projects that exceed $50 million. Mandated by State Law, the Owner's Representatives are required to perform evaluations of the projects, including peer reviews and cost recovery.
- **Massachusetts Port Authority, On-Call Engineering Services, South Boston, East Boston, and Charlestown, Massachusetts.** Project manager for a 4-year on-call contract (extended to 9 years) to provide design reviews, construction coordination and inspection, and design services for MassPort's developable properties ringing Boston Harbor.
- **Replacement of Route 146 Bridge over Sybil Creek, State Project No 14-177, Branford, Connecticut.** Principal-in-charge for the structural design efforts related to the total replacement of the existing bridge.
- **Broadway Infrastructure Improvements, Chelsea, Massachusetts.** Principal-in-charge of the planning, design, and construction administration related to the streetscape improvements on Broadway.

Michael Croteau, PE | Project Manager

- Over 25 years of structural and civil engineering experience including construction administration and inspection experience
- Worked under the NHDOT Municipally Managed State Bridge Aid Program
- Professional Engineer (NH#12193) | Local Public Agency Certification Training (#1178) NHDOT
- Bachelor of Science, Civil Engineering

Relevant Projects:

- **Depot Street Bridge Replacement, Sutton, Massachusetts.** Project manager for this contract under Weston & Sampson's Master Service Agreement with MassDOT. Work under this contract includes an initial 25% design for the superstructure replacement of the Depot Street Bridge that spans approximately 80 feet over the Blackstone River. Design will be in accordance with AASHTO LRFD and MassDOT bridge standards using accelerated bridge practices. Assignment will continue through PS&E and construction engineering.
- **Breezy Hill Road Bridge over the Warner River, Bradford, New Hampshire.** Client service manager (CSM) and the lead senior structural engineer for the design of a new eighty-three foot, single span, two lane bridge to replace the Breezy Hill Road Bridge over the Warner River. Worked with NHDOT and NHDES in the Preliminary Engineering Phase under the Municipal State Bridge Aid Program. (with former employer)
- **2nd NH Turnpike over Contoocook River, Deering, New Hampshire.** Project engineer responsible for construction oversight, quality assurance, and construction administration for this unique bridge replacement project consisting of a 113' span pre-manufactured galvanized steel truss designed with integral concrete abutments. Project was completed under the NHDOT Municipal Bridge Aid Program. (with former employer)

- **East Washington Road over Woodward Brook, Washington, New Hampshire.** Project engineer for the study, evaluation, and replacement of the existing wooden bridge. Project included roadway approach work and guardrails. The new bridge was a timber-type structure and was completed under the NHDOT Municipally-Managed Bridge Aid Program. (with former employer)
- **Peaslee Road Bridge over the Piscataquog River, Weare, New Hampshire.** Responsible for construction engineering services and observations during construction of a new 96 foot, single span, two-lane bridge. The structure incorporated the use of weathering steel girders on conventional abutments with spread footings. Worked with the Town and abutters during construction to implement easement agreements for this NHDOT Municipally-Managed Bridge Aid Program project. (with former employer)
- **East Main Street Improvements, Bradford, Bradford, New Hampshire.** Project manager for improvements to 1,600 feet of the East Main Street corridor in the center of Bradford. The project involved reconstruction of sidewalks throughout the corridor, new bicycle lanes and new curbing with stormwater drainage. The project was funded through the New Hampshire Department of Transportation TE/CMAQ Program and utilized the revised Local Public Agency manual. (with former employer)

Wade Brown, PE, SE | Bridge Lead

- Over 30 years of professional experience as a design engineer and project manager, including design and analysis of numerous bridge transportation projects, which have encompassed a multitude of bridge types and materials, both modern and historic
- Professional Engineer (NH#9456)
- Master of Civil Engineering | Bachelor of Science, Agricultural Engineering

Relevant Projects:

- **Depot Street Bridge Replacement, Sutton, Massachusetts.** Senior structural engineer for this contract under Weston & Sampson's Master Service Agreement with MassDOT. Work under this contract includes an initial 25% design for the superstructure replacement of the Depot Street Bridge that spans approximately 80 feet over the Blackstone River. Design will be in accordance with AASHTO LRFD and MassDOT bridge standards using accelerated bridge practices. Assignment will continue through PS&E and construction engineering.
- **East Washington Road Bridge, Washington, New Hampshire**. Project manager for replacing the existing one-lane, concrete bridge, as part of the NHDOT Municipal Bridge Aid Program. The new bridge consists of a two-lane, pre-engineered, spike-laminated timber deck with a bituminous concrete wearing surface supported on new concrete abutments. (with former employer)
- **2nd New Hampshire Turnpike over Contoocook River, Deering, New Hampshire**. Project manager and senior structural engineer for this unique bridge replacement project consisting of a 113-foot-span pre-manufactured galvanized steel truss designed with integral concrete abutments. Possibly the first bridge of its kind to use integral abutments, this type was engineered to minimize construction and maintenance costs. The structure replaced an existing historic truss originally constructed in 1905. Construction cost $900,000. (with former employer)
- **Fairgrounds Road Bridge #2, Bradford, New Hampshire**. Project manager for the design and construction of this 41-foot span bridge replacement in conformance with NHDOT Municipal Bridge Aid Program. (with former employer)
- **Patterson Hill Road Bridge over the Contoocook River, Henniker, New Hampshire.** QA/QC and technical advisor for the structural design, final plan preparation, and construction observation on the Patterson Hill Road Bridge under the NHDOT Municipal Bridge Aid Program. (with former employer)

Jeff Santacruce, PE, PTOE | Highway Lead

- 30 years of experience leading highway and traffic engineering / transportation planning projects, including roadway reconstructions, traffic signal design, safety improvements, traffic calming strategies, roundabout design, and Complete Street designs
- Professional Engineer (NH#10650) | Professional Traffic Operations Engineer (#4394) | Local Public Agency Certification Training (#1038)
- Bachelor of Science, Civil Engineering

Relevant Projects:

- **Lahaye Drive at Mount Support Road, Lebanon, New Hampshire.** Project manager responsible for overseeing the design of a conversion of the existing signalized intersection into a modified two-lane roundabout to improve operations and safety. The project also includes the design of a 1,500 linear feet of new shared use path. Project includes utility coordination for relocation of overhead utilities, environmental permitting, and public outreach.
- **Peverly Hill Road Complete Street Reconstruction Project, Portsmouth, New Hampshire.** Project manager responsible for overall project coordination, project design, public outreach, scheduling, subconsultant coordination, and the proposed roadway and intersection design. (with former employer)
- **Main Street Reconstruction, Wilton, New Hampshire.** Project manager responsible for the reconstruction of Main Street from Prince Street to Burns Hill Road to improve accessibility and safety. Work included reclaiming the existing roadway and reconstructing the existing sidewalk to improve the horizontal alignment and provide a more consistent roadway width, as well as changes to the vertical profile of the roadway and replacement of existing drainage structures to improve drainage within the core of downtown. Sidewalks and wheelchair ramps were reconstructed to improve the walking surface and accessibility using cement concrete and brick accents. Raised crosswalks were installed at several locations to slow traffic and improve crossing safety. (with former employer)
- **Lakeside Avenue Complete Street Project, Laconia, New Hampshire.** Project manager responsible for overall project coordination, project design, public outreach, scheduling, subconsultant coordination, and the proposed roadway and intersection design on a fast-track timeline. Area sits within a Nationally Registered Historic and Nationally Registered Archaeological Site and the appropriate state agencies were involved in the review process. (with former employer)

Thomas Strike, PE | Geotechnical

- 26 years of experience with geotechnical engineering design, including foundation design, retaining wall and slope stability analyses, and dam safety engineering
- Professional Engineer: New Hampshire No. 13858
- Master of Science, Geotechnical Engineering | Bachelor of Science, Civil & Environmental Engineering

Relevant Projects:

- **Utility Improvement and Road Rehabilitation on Maplewood Avenue, Portsmouth, New Hampshire.** Geotechnical project manager responsible for providing design engineering services related to roadway/utility work. Prepared a preliminary geotechnical data report and a final geotechnical report that included geotechnical recommendations to support utility design and construction and pavement rehabilitation alternatives and recommendations.
- **Clesson Brook Road State Bridge #B-28-010 Replacement, Buckland, Massachusetts.** Geotechnical engineer for replacement of the existing bridge over Clesson Brook. The project included removal of the existing single span bridge (33-foot-long span) with a new concrete arch bridge with a 51-foot-long span.

- **Walnut Hill Road State Bridge #05043 Replacement, Thomaston, Connecticut.** Geotechnical engineer for replacement of the existing bridge over the Northfield Brook. The project included removal of the existing bridge deck superstructure and replacement with either a box culvert or precast concrete arch system.

Connor Golden, PE | Highway Design

- Over 7 years of experience in the design of civil/site and transportation projects including roadway, traffic engineering, traffic management,- and safety projects
- Professional Engineer (NH #17079, FL)
- Bachelor of Science, Civil Engineering

Relevant Projects:

- **Court Street, Laconia New Hampshire.** Project engineer responsible for assisting in the design and preparation of roadway plans for reconstruction of Court Street, the main entrance into the city. Work included the preparation of roadway plans, sidewalk and ADA ramp reconstruction plans, utility relocation and design plans, quantities, specifications, and cost estimates
- **Lahaye Drive at Mount Support Road Intersection Reconstruction, Lebanon, New Hampshire** Project engineer responsible for the traffic analysis and roadway design for the design of a new multilane roundabout to replace the existing traffic signal at the main intersection leading to Dartmouth Hitchcock Medical Center.
- **Alton Gilford Corridor Study, New Hampshire.** Project engineer for the traffic engineering and safety analysis for this corridor study for the NHDOT along NH Route 11. Was responsible for site investigations to review existing conditions, sight distances, and other safety concerns. Assisted in the traffic analysis, crash analysis, and report preparation and attendance at Advisory Committee meetings

Kenny Cusano, PE | Highway Design Support

- Transportation engineer with over 9 years of design experience and DOT coordination on roadway improvement plans, including roadway layout geometrics, drainage plans, utility plans, roadway profiles and cross sections, and maintenance and protection of traffic plans and specifications
- Professional Engineer (CT)

Relevant Projects:

- **Dartmouth College Parking Lot Layout and Safety Improvements, Hanover, New Hampshire.** Project Manager for improvements to six of the institution's parking lots, including improved parking layout, circulation, pedestrian and bicycle accommodations, and green infrastructure.
- **Bedford Mall Parking & Circulation Study, Bedford, New Hampshire.** Conducted a parking and circulation study for the revitalization of a mall site. Evaluated actual parking utilization rates and compared them with Town Zoning Regulations and the proposed parking layout.
- **CTDOT On-Call Traffic and Highway Contracts.** Provided traffic engineering services for the following projects: Hill Signing Project; Interstate and State Highway Detector Project (for permanent count stations); Traffic Control Signal Modifications and Design; I-84 Auxiliary Lanes Pavement Marking Plans.
- **Hanscom Drive at Old Bedford Road – Vandenberg Gate Complex, Hanscom Air Force Base, Lincoln, Massachusetts.** Deputy project manager responsible for overseeing the design, permitting, and construction of a $15M design-build project to construct a new Entry Control Facility at the base entrance. Work includes the relocation of approximately 1,500 feet of Hanscom Drive, construction of a new single lane roundabout at the intersection of Hanscom Drive and Old Bedford Road, and construction of three new buildings.

Devin Herrick, CWS | Permitting

- 10 years of experience focused on environmental conservation and permitting
- NH Certified Wetland Scientist (CWS) #300 | Certified Erosion, Sediment, Stormwater Investigator (CESSWUI) (pending)
- Master of Science, Environmental Conservation | Bachelor of Science, Environmental Science & Anthropology

Relevant Projects:

- **Environmental Permitting Projects, Various Locations.** Completed numerous environmental permitting projects for submittal to local conservation commissions and state and federal agencies for the following permits: Federal: US Army Corps of Engineers. New Hampshire: Wetlands Permitting – Minimum, Minor and Major Impact Projects; Shoreland Permitting; Historical Resource Notification; New Hampshire Natural Heritage Bureau.

Andrew Walker, PH, CFM | Hydraulics / Water Quality

- Hydrologist with 18 years of experience specializing in engineering and water resources
- Professional Hydrologist (#18-H-9008)
- Certified Floodplain Manager
- Master of Science, Hydrology | Bachelor of Science, Civil Engineering

Relevant Projects:

- **Roadway Rehabilitation and Culvert Replacement, Lincoln, New Hampshire.** Conducted hydrologic and hydraulic analyses in support of a roadway rehabilitation and culvert replacement project for the access driveway to the town's water treatment plant, which was washed out twice within 10 years.
- **Stage Coach Road, Stowe, Vermont.** Developed Hydro CAD rainfall-runoff model to determine design flows and study historical events. Determined that failed culvert was not undersized, but overwhelmed by backwater from nearby bridge. Used model to evaluate potential alternative culvert rehabilitation designs.

Kevin MacKinnon, PG, CG, PH-GW | Hydraulics / Water Quality

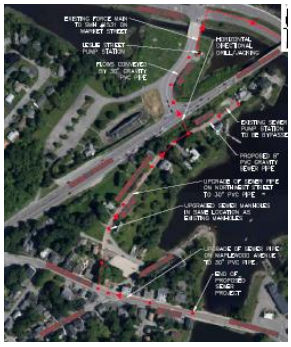
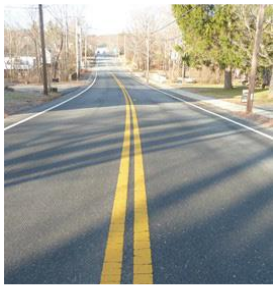
- Professional geologist, hydrogeologist, and hydrologist with more than 25 years of experience focused on water resource studies and groundwater contaminant transport Professional Hydrologist (#18-H-9008)
- Professional Geologist (NH #613) | Professional Hydrologist (#12HGW-4016)
- PhD Candidate, Civil Engineering | Master of Science, Geology | Bachelor of Science, Geology

Relevant Projects:

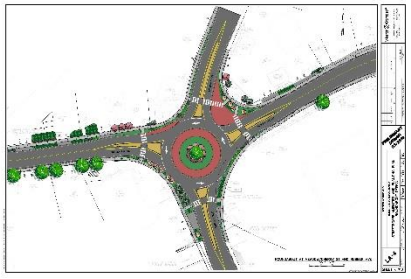
- **Watershed Impact Study, Exeter, New Hampshire**. Primary author and modeler to assess watershed impacts based on the removal of a 100+ year old dam. Evaluated the potential impact on stream flow and wetland resources from groundwater withdrawals ranging from 800,000 gpd to 1.5 million gpd.
- **Hydrogeologic Analysis for Infiltration Basins, Dover, New Hampshire.** Project manager for hydrogeologic services to assess the suitability of lands surrounding French Cross Road for infiltration basins for treatment system backwash.

APPLICABLE WORK EXPERIENCE

In the table below, we highlight relevant projects completed by Weston & Sampson, as well as projects completed by project manager **Mike Croteau, PE**; bridge lead, **Wade Brown, PE**; and highway lead **Jeff Santacruce, PE,** with their former employers.

Project / Location / Services Provided	Client Contact
Weston & Sampson Projects	
Maplewood Avenue Utility and Road Rehabilitation, Portsmouth, NH  Engineering and design services for streetscape; underground utilities; and bicycle, pedestrian, and roadway improvements for Maplewood Avenue and adjacent areas. Provided evaluation and design services for the water and sewer system improvements, as well as geotechnical and subsurface investigations to support the project, and peer review of roadway design.	Raymond Pezzullo, PE Assistant City Engineer Public Works Department City of Portsmouth, NH 603-766-1755 rcpezzullo@cityofportsmouth.com
Black Brook Road Reconstruction and Slope Stabilization, Savoy, MA  Evaluation of alternatives and final design of roadway and river banks following damage from Tropical Storm Irene. Project included over one mile of roadway in various states of disrepair, seven slope failures, one major culvert replacement, and miscellaneous storm drainage improvements. Due to magnitude of the work, funding was obtained from five different sources, including MassDOT and FEMA. Work included the stabilization of the failed portions of the slope between Black Brook and Black Brook Road, replacement of a 36-inch diameter CMP culvert, and reconstruction of the existing roadway and stormwater collection systems. **✓ACEC of MA 2018 Bronze Award for Engineering Excellence** **✓APWA Project of the Year for Disaster or Emergency Construction Repair**	John Tynan Board of Selectman, Chair Town of Savoy, MA 413-743-4290 autssf@yahoo.com
Pavement Management Program, Ashburnham, MA  Development of a town-wide pavement and sidewalk inventory network using MassGIS and MassDOT data. Collected and interpreted pavement condition indexes (PCI) for 74 miles of roadway. Managed the town database information and combined GIS data to collect pavement condition distresses for ratings and recommendations for long-term capital improvement plans. Instructed town employees in the use of software to update the system as roadway sections changed status. Weston & Sampson is also designing and administrating the construction effort.	Steve Nims Highway & Municipal Grounds Superintendent Public Works Department Town of Ashburnham, MA 978-827-4122 municipalgrounds@comcast.net

Project / Location / Services Provided	Client Contact
Hanover Street Improvement, Lebanon, NH Preliminary design and engineering for roadway improvements along a 2,300-foot stretch of Hanover Street. Project includes evaluation of the operations and geometric layout of three existing intersections based on Complete Street techniques that can accommodate all users, including pedestrians, bicyclists, vehicles, and transit users. Preparation of alternatives analysis for the corridor and for intersection alternatives, including realignment/geometric improvements, traffic signal installation, and roundabouts. Also includes preparation of opinions of probable construction costs and a robust public engagement process to gain input and consensus from the public. 	Brian Vincent, PE City Engineer City of Lebanon, NH 603-448-3112 Ext 5262 brian.vincent@lebanonnh.gov
Sutton Bridge Design, Massachusetts Department of Transportation Design services for a structurally deficient bridge that spans 80'-6" over the Blackstone River in Sutton, Massachusetts, as part of a master service agreement with MassDOT. Evaluated bridge superstructure replacement options in accordance with AASHTO and MassDOT standards. Performed in-depth structural analysis and materials testing program of the existing abutments and oversaw the boring program and prepared the geotechnical report in accordance with the MassDOT Bridge Manual. Provided wetland flagging, environmental permitting assistance, highway design, and traffic management plans. 	John Fallon Project Manager, Highway Division Mass DOT 617-973-7000 municipalgrounds@comcast.net
Infrastructure and Streetscape Improvements, Rochester, NH Assistance with a multi-phase Infiltration and Inflow (I/I) Identification and Removal Program. In addition to utility construction, Phase II included the following transportation improvements: ▪ Five miles of roadway reconstruction ▪ Sidewalk and granite curb installation ▪ Traffic flow management ▪ Signage ▪ School parking and crosswalk construction ▪ NHDOT design/ construction coordination 	David Green Chief Operator, WWTP City of Rochester, NH 603-332-8950 david.green@rochesternh.net
Lahaye Drive at Mount Support Road Intersection Improvements Lebanon, NH Project consists of the design of a hybrid two lane roundabout to replace an existing traffic signal and the design of a 1500-foot-long extension to an existing multiuse trail. Work also includes environmental permitting with NHDES wetlands bureau and an Alteration of Terrain Permit and coordination with abutters for property impacts. Work will also include bidding services and construction administration.	Brian Vincent, PE City Engineer City of Lebanon, NH 603-448-3112 Ext 5262 brian.vincent@lebanonnh.gov

Project / Location / Services Provided	Client Contact
Southern New Hampshire Regional Water Main Project, Salem, NH Weston & Sampson has assisted the NH Department of Environmental Services (DES), the Groundwater Trust Advisory Committee, and the Town of Salem with the design of the Southern New Hampshire Regional Water (SNHRW) project. The SNHRW project is one of the largest water supply initiatives undertaken in New Hampshire and included the design of approximately 26,500 linear feet of 20-, 16-, and 12-inch diameter water mains to connect six communities within the southern tier of the state, as well as two pressure reducing valve (PRV) stations along the water main route. The project required extensive coordination with NHDOT, as approximately 80% of the water main was installed within NHDOT right of way.  ✓**ACEC-NH – 2021 Overall Winner Engineering Excellence Award**	Roy Sorenson Municipal Services Director City of Salem, NH 603-890-2150 rsorenson@salemnh.gov
Franklin Center Revitalization, Franklin, MA Development of a revitalization strategy for Franklin Center, including implementation of a series of infrastructure related improvements (parking, traffic, streetscape, open space expansion) in order to create a more exciting, cohesive, and aesthetically pleasing retail and residential setting. Improvements to Emmons Street, West/East Central Streets, Summer Street, Lincoln Street, Main Street, and portions of the intersecting side streets included:  ▪ Full depth reclamation on Main Street and Summer Street ▪ Full depth box widening, pavement milling, and overlay on other project streets ▪ Drainage upgrades ▪ ADA/AAB compliant, cement concrete sidewalks ▪ New coordinated signal system at intersection ▪ New period lighting, new signs, new pavement markings, and landscaping	Brutus Cantoreggi DPW Director Town of Franklin, MA 508-520-4910 dpw@franklin.ma.us
Rubber Avenue Reconstruction, Naugatuck, CT Design of reconstruction of 3,600 feet of Rubber Avenue, an urban collector roadway that carries a significant amount of traffic throughout the day, to improve traffic flow, pedestrian zones, and aesthetics. Project included: ▪ Roadway & streetscape improvements ▪ Enhanced connectivity and pedestrian safety ▪ Conceptual roundabout design ▪ LOTCIP funding ▪ Corridor planning ▪ Corridor modeling ▪ Gateway 	James Stewart DPW Director Borough of Naugatuck, CT 203-720-7071 jstewart@naugatuck-ct.gov

Project / Location / Services Provided	Client Contact
Clesson Brook Road Bridge B-28-010, Buckland, MA  Services to address hurricane damage to a 35-foot-long, 25'9" wide steel stringer/girder bridge. An evaluation determined that the existing bridge needed to be extensively repaired or replaced to address significant deterioration and damage. Conducted an alternative study to determine the best solution, deciding on a full replacement using a precast concrete arch system bearing on conventional spread footings. Bridge was designed in accordance with the 2010 AASHTO LRFD Bridge Design Specifications with current interim Specifications through 2010, for an HL-93 Loading and in accordance with Massachusetts Department of Transportation Standard Specifications for Highways and Bridges.	Andrea Llamas Town Administrator Town of Buckland, MA 413-340-9440 twnadmin@townofbuckland.ma.us
Mike Croteau (PM) & Wade Brown (Bridge Lead) Projects with Previous Employer	
Breezy Hill Road Bridge, Bradford, NH  Design services for a new eighty-three-foot, single-span, two-lane bridge to replace the Breezy Hill Road Bridge over the Warner River. The structure incorporated galvanized steel plate girders on pile-supported integral abutments in order to minimize construction and long-term maintenance costs. A temporary bridge was used to maintain traffic during construction of the new bridge. Worked with NHDOT and NHDES in the Preliminary Engineering Phase under the Municipal State Bridge Aid Program.	Karen Hambleton Town Administrator Town of Bradford, NH 603-938-5900 administrator@bradfordnh.org
2nd NH Turnpike over Contoocook River, Deering, NH Construction oversight, quality assurance, and construction administration for this unique bridge replacement project consisting of a 113-foot-span pre-manufactured galvanized steel truss designed with integral concrete abutments. Possibly the first bridge of its kind to use integral abutments, this type was engineered to minimize construction and maintenance costs, while maintaining the existing roadway profile and improving hydraulics. The structure replaced an existing historic truss originally constructed in 1905. Construction cost $900,000. This project was completed under the NHDOT Municipal Bridge Aid Program.	Russell McAllister Former Town Administrator Town of Deering, NH 603-424-3248 antrimbiz@tds.net
East Washington Road Bridge, Washington, NH Services for the study, evaluation, and replacement of the existing one-lane, concrete bridge, as part of the NHDOT Municipal Bridge Aid Program. The new bridge consists of a two-lane, pre-engineered, spike-laminated timber deck with a bituminous concrete wearing surface supported on new concrete abutments. Project included roadway approach work and guardrails. Maintained traffic during construction through the use of a one-lane temporary bridge.	Ed Thayer Director of Public Works Washington, NH 603-495-3233 Ethayer@washingtonnh.org
Jeff Santacruce (Highway Lead) Projects with Previous Employer	

Project / Location / Services Provided	Client Contact
Peverly Hill Road Complete Street Reconstruction, Portsmouth, NH (CMAQ) Roadway and intersection design for the reconstruction of Peverly Hill Road. Provided project coordination, project design, public outreach, scheduling, and subconsultant coordination, and the proposed. Project included a new sidewalk and a shared-use path, roadside plantings, and improved safety through traffic calming, as well as coordination with New Hampshire Division of Historical Resources and cultural resource agencies.	Eric Eby, PE Parking and Transportation Engineer City of Portsmouth, NH 603-766-1415 ebeby@cityofportsmouth.com
Main Street Rehabilitation Project, Wilton, NH Services for the reconstruction of Main Street from Prince Street to Burns Hill Road to improve accessibility and safety. Work included reclaiming the existing roadway and reconstructing the existing sidewalk to improve horizontal alignment and provide a more consistent roadway width, as well as changes to the vertical profile of the roadway and replacement of existing drainage structures. Work included coordination with the Nashua Regional Planning Commission, NHDOT, Town Selectmen, and the public.	Town of Wilton Select Board Town Hall Town of Wilton, NH 603-654-3299

The following table further summarizes the depth of Weston & Sampson's applicable experience.

Client/Location	Peer/Development Reviews	Stormwater Engineering	Traffic, Roadways and Sidewalks	Civil/Site Engineering	Structural Engineering/Bridges	Geotechnical	Hydrology/Hydraulic Analysis	Construction Services	Environmental Permitting	Water System Engineering	Environmental Assessment
Concord, NH			◆	◆						◆	
Derry, NH						◆		◆	◆	◆	
Durham, NH						◆	◆			◆	
Exeter, NH		◆		◆		◆	◆		◆	◆	
Hampton, NH										◆	
Hudson, NH	◆			◆			◆	◆	◆	◆	◆
Keene, NH							◆		◆	◆	◆
Lebanon, NH	◆	◆	◆	◆		◆	◆	◆	◆	◆	
Lincoln, NH		◆								◆	
New Durham, NH	◆	◆	◆	◆			◆				
Portsmouth, NH			◆	◆						◆	
Rochester, NH		◆		◆	◆		◆				
Salem, NH		◆					◆				
Wolfeboro, NH		◆	◆	◆		◆	◆	◆		◆	
Newburyport, MA	◆		◆	◆	◆		◆	◆	◆	◆	◆
Salisbury, MA	◆	◆	◆	◆				◆		◆	
Bethel, ME	◆							◆		◆	
York, ME	◆							◆			