



FEBRUARY 2024

**Letter of Interest**  
**Statewide On-Call Preliminary Engineering Prequalified List of**  
**Consultants for Locally Administered Local Public Agency (LPA)**  
**Qualifications-Based Selection Contracts**



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This Letter of Interest adheres to page requirements set forth in the solicitation for Letters of Interest.



January 26, 2024

Tobey Reynolds, PE  
Assistant Director of Project Development  
Chairperson, Consultant Selection Committee  
7 Hazen Drive, PO Box 483, Concord, NH 03302

**SUBJECT: Statewide On-Call Preliminary Engineering  
Prequalified List of Consultants for Locally Administered Local Public Agency (LPA)  
Qualifications-Based Selection Contracts**

Dear Mr. Reynolds,


The state of New Hampshire, like many New England states, is relying on transportation infrastructure that is aging at a rapid pace. The New Hampshire Department of Transportation (NHDOT) partners with municipalities through the LPA process to maintain this infrastructure, and Wright-Pierce can assist. Wright-Pierce is a full-service civil and environmental engineering firm with a staff of over 300 engineers and support personnel with a seasoned track record you can count on. Since 1947, Wright-Pierce has been assisting municipalities in New Hampshire and beyond with their civil engineering needs. Our Transportation Infrastructure Group has successfully delivered road, bridge, and active transportation design services on over 25 municipally managed projects over the past three years. Working with Wright-Pierce offers the following:

- **Local New Hampshire personnel** dedicated to providing highly responsive service to the NHDOT and municipalities.
- **Responsive approach to municipal services** with well-defined workflows for managing projects through the LPA process.
- **Experience** with the NHDOT LPA process, including SBA, TAP, and MOBRR programs and with projects for statewide municipal clients.
- **An integrated team** of bridge, highway, and environmental professionals that can meet schedule and budget requirements.

Wright-Pierce Project Manager Jason Gallant, PE, is NHDOT LPA certified and well known in the New England infrastructure design and construction community having led over 50 successful projects for New Hampshire municipalities. Jason will be the point of contact for projects assigned under this contract, so please reach out to him should you have questions or require additional information. Principal-in-Charge, Ryan Wingard, is an authorized representative of Wright-Pierce and will commit staff and corporate resources for this contract.

Sincerely,

**WRIGHT-PIERCE**



Ryan T. Wingard, PE  
Vice President, Principal-in-Charge  
[ryan.wingard@wright-pierce.com](mailto:ryan.wingard@wright-pierce.com)  
207.523.1419



Jason L. Gallant, PE  
Project Manager  
[jason.gallant@wright-pierce.com](mailto:jason.gallant@wright-pierce.com)  
603.570.7166

# 2

## Understanding LPA Contracts

Wright-Pierce works as an extension of our clients' staff and our role is to perform services according to your schedule, funding, and delivery needs in accordance with New Hampshire Department of Transportation (NHDOT) standards. Maintaining a dedicated New Hampshire staff of over 55 professionals with offices in Bedford and Portsmouth affords us the flexibility to do just that. Firm-wide, we have over 300 professionals across multiple fields of civil and environmental engineering that help to provide quality highway, bridge, and active transportation design services in accordance with NHDOT LPA program standards.

Our Project Manager, Jason Gallant, and supporting team members offer successful project delivery experience under the State Bridge Aid (SBA), Congestion Mitigation and Air Quality (CMAQ), Transportation Alternative Program (TAP), and Municipal Off System Bridge (MOBRR) programs. Our team members also have experience with similar project funding programs including the MaineDOT LPA program, Community Development Block Grant (CDBG), Clean Water State Revolving Fund (CWSRF), and U.S. Department of Agriculture (USDA).

## Bridge Engineering

Across the United States, significant attention has been focused on the fact that the rate of deterioration of our bridges has far exceeded the rate of investment in replacement or substantial rehabilitation efforts of these structures. Our bridges are falling apart more quickly than we are repairing them.

Wright-Pierce provides a wide range of engineering services associated with bridge and ancillary transportation structures. We understand various rehabilitation methodologies available and advise our clients regarding cost-effective means of keeping bridges safe and functional. We have engineered the construction of dozens of new bridges and have recent, hands-on experience in the use of pre-engineered structures for both highway and pedestrian applications.

## Highway and Roadway Design

Wright-Pierce assists municipalities and state transportation agencies with the construction of new highways, rehabilitation of roadways, and regulatory and administrative aspects of such projects. We have provided planning and design services for highway projects in many states and are familiar with design standards and variations in technical specifications pertaining to geometrics, pavements, drainage facilities, and ancillary elements.

## Active Transportation

Wright-Pierce understands the vital role that active, non-motorized transportation including biking, walking, or rolling plays within the greater transportation network. Our active transportation work for municipalities and state transportation agencies includes planning, design, and construction of active transportation facilities as stand-alone projects or integrated into projects associated with traditional transportation projects with vehicular traffic primarily moving goods and people. We are familiar with the Americans with Disabilities Act (ADA) standards and Public Right-of-Way Accessibility Guidelines (PROWAG) that influence the design of these important facilities.

## Subconsultant Management

Our approach to subconsultant management is to take full responsibility for each of our subconsultants. Because subconsultants have a major impact on the successful delivery of any project, we develop long-standing relationships with subconsultants that perform services for our projects. We have worked with all subconsultants presented on this team on several continuing services contracts and they continue to perform well for us and our clients.

## Adhering to Schedule & Budget

Wright-Pierce uses BST10 as our project management system. BST10 is an industry-leading software program used for project initiation, project tracking, resource allocation, time management, and accounting. At the initiation of a project, our Project

Manager inputs data related to the project team, tasks and subtasks, hours, and schedule. This information is then incorporated into a company-wide resource management tool capable of reporting the availability of individual employees and entire project teams. Project Managers are required to update the hour projections for each team member monthly. Our Operations Managers then run biweekly reports to assess staffing needs to keep projects on track. We also conduct weekly resource planning meetings on local, regional, and corporate levels to identify potential schedule issues and overloaded or underloaded staff. This two-pronged approach allows us to proactively manage our resources and maintain project schedules.

On large projects with multiple subconsultants, the Project Manager establishes an effective protocol to communicate information in a timely fashion to maintain the project schedule. Our team has been

using and will continue to use Microsoft Teams for project meetings and SharePoint for internal data transmission and data management needs. These tools enable our personnel to effectively communicate face-to-face even when miles apart.

### LPA Project Approach

Since 1947, we have worked on thousands of projects and developed a proven project approach that each of our project managers implements on every project, to the extent possible. A typical engineering project would follow the various phases of work identified in the graphic below in accordance with the NHDOT LPA process. We collaborate with clients to refine our approach and customize it to fit each project's goals, budget, and schedule.

# 1

## Engineering Study

- Local Concerns Meeting
- Purpose and Need Statement
- Existing Conditions
- Design Criteria
- Preliminary Engineering Report
- Alternatives Analysis/Proposed Layout
- Structure Study and Recommendation
- Cost Estimate
- Public Presentation
- Submission to Municipality and NHDOT

# 2

## Preliminary Design

- Incorporate Engineering Study Comments
- Preliminary Plans
- Environmental Documents
- ADA Compliance
- Miscellaneous Details
- Cost Estimate
- Submission to Municipality and NHDOT

# 3

## Final Design

- Incorporate Preliminary Design Comments
- Final Plans
- Technical Specifications
- Draft Bid Package
- Final Estimate
- Submission to Municipality and NHDOT

# 4

## Bidding Support

- Incorporate Final Plan Comments
- Incorporate Technical Specification Comments
- Finalize Bid Package
- NHDOT Approval to Advertise Contract
- Website File Hosting and Plan Holders List
- Respond to Bidder Questions
- Issue Bid Addenda as Needed
- Open and Canvas Bids
- NHDOT Approval to Award Contract

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## Our Team Dedicated to Your Project

From our full-service, diverse staff of experienced engineering professionals, technicians, and support personnel, we have assembled a project team with many years of demonstrated practical experience completing similar projects. To find the best solution, working together as a team will be essential, and our team is committed to working with you.

**Jason Gallant, PE** will be your dedicated Project Manager for this contract. He has 27 years of experience working on transportation projects and has direct experience working with NHDOT and New Hampshire Municipalities. Read more about the team in the following section and in Appendix A of this submittal.



### PRINCIPAL-IN-CHARGE

Ryan Wingard, PE

### TECHNICAL ADVISORS

Mark Cunningham, PE – Bridges  
Jeff Preble, PE – Highway  
Chris Berg, PE – Utilities

### PROJECT MANAGER

Jason Gallant, PE

### BRIDGE

Jason Gallant, PE – Lead  
Matt Severson, PE  
Westley Nuhn, PE  
Jason Powell, PE  
Jaime Wallace, PE  
Ryan Quaglieri, EIT  
Katherine Parker, EIT  
Ken Muamba

### HIGHWAY

Britt Eckstrom, PE – Lead  
Owen Chaplin, PE  
Charlie Daigle, PE  
Matt LaPierre  
Miranda Pierre

### TRAFFIC

**Traffic Subconsultant**  
**Sewall Infrastructure**  
Diane Morabito, PE, PTOE  
Lynn Frazier, PE, PTOE

### SUPPORT SERVICES

**Hydrology & Hydraulics**  
Ryan Wingard, PE  
Steve Guerrette, PE  
Alex Liptak, PE

**Environmental/Permitting**  
Britt Eckstrom, PE  
Nate Edwards, PE  
Jake Shactman, EIT

**Public Information**  
Jason Gallant, PE  
Faye DeMoura, CPSM

**Alternative Procurement Methods**  
Jason Gallant, PE  
Ryan Wingard, PE

**Survey Subconsultant**  
**Doucet Survey**  
Jack Kaiser, PS

**Geotechnical Subconsultant**  
**Haley & Aldrich**  
Wayne Chadbourne, PE

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## Introducing Our Key Team Members

The following introductions describe our Project Manager and Technical Advisor for this contract and explain:

- Role and responsibilities for this contract
- General qualifications as they relate to this contract
- A synopsis of specific experience that helps them add value to this contract

Additional information about key team members and their experience can be found in their resume in an appendix to this submittal.



Wright-Pierce team members typically participate through all phases of a project to ensure continuity, effective implementation of original concepts, and overall success.



**Experience:** 27 years  
**Joined Firm:** 2021  
**Professional Licenses:** NH, ME, CT, FL, MA, PA, RI, VT  
**NHDOT LPA Certified #1115**

### Project Manager: Jason Gallant, PE

Jason has over two decades of progressive experience in transportation infrastructure engineering throughout the Northeast and will leverage this experience in his role as Project Manager. As Project Manager, he will be the primary point of contact for communications with the NHDOT. He will be responsible for coordinating the technical efforts of the project team and for monitoring schedule and budget compliance. His engineering expertise includes design, analysis, and construction of new and rehabilitated bridges and other highway, railroad, and building structures under design-build and design-bid-build project delivery methods. Jason offers strong knowledge of bridge and building design standards throughout the Northeastern U.S. and has successfully designed many DOT, municipal, commercial, and institutional structures using reinforced concrete, prestressed concrete, structural steel, and timber.



**Bridges:** Mark Cunningham, PE  
**Highway:** Jeff Preble, PE  
**Utilities:** Chris Berg, PE

### Technical Advisors

Mark Cunningham, Jeff Preble, and Chris Berg will serve as Technical Advisors for projects assigned under this contract. They are each assigned to a specific technical aspect, based on their experience in that area. As Technical Advisors, Mark, Jeff, and Chris will provide technical advice to the project team and reviews of interim technical documents. They will also assist with ensuring that our quality assurance/quality control (QA/QC) program is implemented and will be QC reviewers. Wright-Pierce operates under well-established QA/QC procedures that require internal reviews by senior team members who have not been involved with the project and who retain experience with similar projects. Mark, Jeff, and Chris will be involved throughout the contract to leverage their experience and ensure quality control.

## Highway & Bridge Design Engineering Services in Support of LPA Projects

Key Personnel	Project Role	Years of Experience	Years with Firm	LPA Certified*	Project Management	Highway Design	Bridge Design	Structural Engineer	Alternative Procurement Methods	Corridor Study Planning	Bridge Inspection	Bridge Load Rating	Hydrology	Environmental	Traffic Analysis	Geotechnical Engineer	Surveyor	Public Involvement
Jason Gallant, PE	Project Manager, Bridge Lead	27	3	•	•	•	•	•	•	•	•	•						•
Mark Cunningham, PE	Technical Advisor - Bridges	36	9			•	•	•			•	•						
Jeff Preble, PE	Technical Advisor - Highway	39	22	•	•	•			•									•
Chris Berg, PE	Technical Advisor - Utilities	20	19	•	•	•												•
Ryan Wingard, PE	Principal-in-Charge	27	16		•	•			•				•					•
Matt Severson, PE	Bridge	37	2		•		•	•	•			•						
Westley Nuhn, PE	Bridge	7	1	•		•	•	•			•	•						
Jason Powell, PE	Bridge	25	22				•	•										
Jaime Wallace, PE	Bridge	9	7	•	•	•	•				•							•
Ryan Quaglieri, PE	Bridge	1	1				•				•	•						
Katherine Parker, EIT	Bridge	6	3				•	•			•	•						
Ken Muamba	Bridge	1	1				•											
Britt Eckstrom, PE	Highway Lead	20	5	•	•	•								•				•
Owen Chaplin, PE	Highway	10	2	•	•	•				•			•					•
Charlie Daigle, PE	Highway	9	6	•	•	•	•		•		•	•	•				•	•
Matt LaPierre	Highway	21	5			•	•											
Miranda Pierre	Highway	1	1			•	•											
Steve Guerrette, PE	Hydrology & Hydraulics	16	16		•	•			•				•	•				•
Alex Liptak, PE	Hydrology & Hydraulics	6	4			•	•				•			•				
Nate Edwards, PE	Environmental/Permitting	6	5			•	•				•	•	•	•			•	•
Jake Shactman, EIT	Environmental/Permitting	4	4										•	•				
Faye DeMoura, CPSM	Public Information	16	6															•
<b>Subconsultants</b>																		
Diane Morabito, PE, PTOE	Traffic	41	5												•			
Lynn Frazier, PE, PTOE	Traffic	17	5												•			
Jack Kaiser, PS	Survey	28	22		•												•	
Wayne Chadbourne, PE	Geotechnical	29	29		•									•		•		

\* Jeff Preble, Jaime Wallace, and Charlie Daigle hold their LPA certifications in Maine.

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# References

## Client References

The following are references of clients for whom we have provided similar services to your proposed project. We have completed projects for these clients within the last five years. These contacts are familiar with Wright-Pierce, know our work ethic, and can speak to the services we provide. Please contact them and ask about our:

- Responsiveness
- Sensitivity to local goals and objectives
- Adherence to scope, schedule, and budgets
- Attention to detail
- Ability to work with committees and stakeholders
- Effectiveness in dealing with regulatory agencies
- Technical knowledge



The references below will be able to share candid opinions regarding the quality of service that has been provided by Wright-Pierce.

## Client References

Reference	Contact	Project Relevance
<b>City of Somersworth</b> One Government Way Somersworth, NH 03878	<b>Michael Bobinsky</b> Director of Public Works and Utilities 603.692.4262 <a href="mailto:mbobinsky@somersworth.com">mbobinsky@somersworth.com</a>	<ul style="list-style-type: none"> <li>• Working for City since the 1990s</li> <li>• Civil infrastructure, roadway, and utility reconstruction projects</li> <li>• Case study provided in Appendix B</li> </ul>
<b>Town of Exeter</b> Public Works 13 Newfields Road Exeter, NH 03833	<b>Jay Perkins</b> Highway Superintendent 603.773.6157 <a href="mailto:jperkins@exeternh.gov">jperkins@exeternh.gov</a>	<ul style="list-style-type: none"> <li>• Working for Town since the 1990s</li> <li>• Ongoing bridge project</li> <li>• Stormwater and permitting projects</li> <li>• Case study provided in Appendix B</li> </ul>
<b>City of Dover</b> Engineering Services 271 Mast Road Dover, NH 03820	<b>Kenneth Mavrogeorge, PE</b> City Engineer 603.516.6454 <a href="mailto:k.mavrogeorge@dover.nh.gov">k.mavrogeorge@dover.nh.gov</a>	<ul style="list-style-type: none"> <li>• Working for City since the 1970s</li> <li>• Roadway and utility reconstruction projects</li> <li>• Retaining wall projects</li> </ul>
<b>Town of Hudson</b> 12 School Street Hudson, NH 03051	<b>Elvis Dhima, PE</b> Town Engineer 603.886.6008 <a href="mailto:edhima@Hudsonnh.gov">edhima@Hudsonnh.gov</a>	<ul style="list-style-type: none"> <li>• Working for Town since 2018</li> <li>• Ongoing bridge projects</li> <li>• Construction observation services</li> <li>• Case study provided in Appendix B</li> </ul>
<b>Town of Newmarket</b> Public Works 4 Young Lane Newmarket, NH 03857	<b>Lyndsay Butler, PE</b> Town Engineer 603.659.3617 <a href="mailto:lbutler@newmarketnh.gov">lbutler@newmarketnh.gov</a>	<ul style="list-style-type: none"> <li>• Working for Town since 2010</li> <li>• Roadway and utility reconstruction projects</li> <li>• Ongoing bridge projects</li> </ul>

# APPENDIX







Jason Gallant, PE

## Project Manager, Bridge Lead

Jason has over two decades of progressive experience in transportation infrastructure engineering throughout the Northeast and will leverage this experience in his role as Project Manager. His engineering expertise includes design, analysis, and construction of new and rehabilitated bridges and other highway, railroad, and building structures under design-build and design-bid-build project delivery methods.

Jason offers strong knowledge of bridge and highway design standards throughout the Northeastern U.S. and has successfully designed many DOT, municipal, commercial, and institutional structures using reinforced concrete, prestressed concrete, structural steel, and timber. **He has managed single bridge projects in New England with construction value up to \$73 million.** He has completed several similar projects including:

- Project Manager and Engineer of Record for over 50 Municipal Bridge Projects in New Hampshire
- Statewide On-Call Bridge Design Services, NHDOT, Various Locations in NH
- I-93 Salem-Manchester Final Design, NHDOT, Salem and Windham, NH
- Conway Bypass Phase 4B, 6, 7A, 7B, NHDOT, Albany, Conway, Madison, NH

## Technical Advisor – Bridges



Mark Cunningham, PE

Mark is a Senior Structural Engineer within the Building Design Services Practice Group. He has performed analysis, design, load ratings, and inspections of bridges. Additional responsibilities include structural design of buildings, water and wastewater treatment plants, industrial facilities, and other structures; preparation of plans and specifications; cost estimating; and construction administration. He is experienced in the design of reinforced concrete, structural steel, reinforced masonry, wood framing, and foundations.

- MassDOT RT 1 Highway Bridge, Dedham, MA
- MassDOT Bridge Load Rating, Northampton, MA
- CTDOT I-95 Highway Bridge, Greenwich, CT
- CTDOT Bridge Inspections, Multiple Locations

### Education

M.S., Civil Engineering, Structural Focus, Northeastern University

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

### Experience

27 years

### Joined Firm

2021

### Professional Licenses

Professional engineer in NH, ME, CT, FL, MA, PA, RI, VT, and **NHDOT LPA certified #1115**

### Education

M.S., Civil (Structural) Engineering, University of Connecticut

B.S., Civil Engineering, Rensselaer Polytechnic Institute

### Experience

36 years

### Joined Firm

2014

### Professional Licenses

NH, ME, MA, CT, NJ, NY, FL



Jeff Preble, PE

**Technical Advisor – Highway**

Jeff has extensive experience in stormwater management plans, street and highway design and reconstruction, site design, sewer separation, storm drainage projects, surface water treatment, water distribution systems, water system planning and analysis, and wastewater systems.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Intersection Reconstruction, Rochester, NH
- Back Narrows Road Culvert, Boothbay, ME
- So. Lisbon Road Improvements, Lewiston, ME

**Education**

B.S., Civil Engineering, University of Maine, Orono

**Experience**

39 years

**Joined Firm**

2001

**Professional Licenses**

Professional engineer in NH, ME, CT and **MaineDOT LPA certified**



Chris Berg, PE

**Technical Advisor – Utilities**

Chris brings over 20 years of experience in the planning, design, and construction administration of utilities engineering projects. Several of the utilities projects he has worked on have included close coordination with NHDOT, experience which he will leverage for this contract. He has completed several similar projects, such as:

- Roadway and Utility Reconstruction, Somersworth, NH
- RT 202A Water Main Extension, Rochester, NH
- Main Street Utility Improvements, Plymouth, NH
- RT 1A Water Main Replacement, Rye, NH
- Jady Hill Utilities Improvements, Exeter, NH

**Education**

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

B.S., Civil Engineering, Rowan University

**Experience**

20 years

**Joined Firm**

2004

**Professional Licenses**

Professional engineer in NH, MA and **NHDOT LPA certified #1644**



Ryan Wingard, PE

**Principal-in-Charge**

Ryan is the firm’s Civil Practice Group Leader, Vice President, and member of the Board of Directors. He has 27 years of civil engineering experience including highway/roadway design, roadway rehabilitation and reconstruction, intersection improvements, parking lots, sidewalks, trails, bike lanes, complete streets, highway/roadway drainage, culvert design, and bridge scour analysis.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH
- Culvert Replacement, Newmarket, NH
- Garrison Lane and Linden Street Bridges, Exeter, NH

**Education**

M.S., Civil Engineering, Wayne State University

B.S., Civil and Environmental Engineering, University of Michigan

**Experience**

27 years

**Joined Firm**

2007

**Professional Licenses**

NH, ME, VT, MA, CT, RI, MI, FL



**Matthew Severson, PE**

**Bridge**

Matt is a project manager in Wright-Pierce’s civil group. He is a forward-thinking, versatile engineering professional with a proven track record of leading diverse teams designing and constructing complex projects. He leverages his experience to evaluate and break down even the most difficult projects into more manageable elements to ensure a positive outcome for his clients. Matt has extensive experience in design and construction in the facility, life science, municipal, and transportation industries.

- RT 16 Conway Bypass, Conway, NH
- South Willow Street Bridge, Manchester, NH

**Education**

B.S., Civil Engineering, Michigan Technological University

**Experience**

37 years

**Joined Firm**

2022

**Professional Licenses**

Professional engineer in NH, ME, and MA



**Jaime Wallace, PE**

**Bridge**

Jaime has experience on a wide variety of civil projects including bridge and culvert inspection repair and replacement. His responsibilities have included design, permitting, scheduling, and construction monitoring on both public and private sector development projects. He has a strong background in erosion control and maintenance, as well as quality control inspections.

- Street Reconstruction and Drainage, Dover, NH
- Hampshire Road Culvert Replacement, Brownfield, ME
- Old Ferry Road Culvert Replacement, Wiscasset, ME

**Education**

B.S., Civil Engineering and Environmental Engineering, University of Maine

**Experience**

9 years

**Joined Firm**

2016

**Professional Licenses**

Professional engineer in ME and **MaineDOT LPA certified**



**Britt Eckstrom, PE**

**Highway Lead**

Britt has more than 20 years of experience in consulting engineering working on a wide variety of civil and environmental projects, including roadway, water system, wastewater, and general municipal engineering projects. She has significant project experience with infrastructure evaluation, report preparation, project design, construction document preparation, permitting, and construction administration.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH
- Culvert Replacement, Newmarket, NH
- Garrison Lane and Linden Street Bridges, Exeter, NH

**Education**

M.S., Civil Engineering, University of California, Berkeley

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

**Experience**

20 years

**Joined Firm**

2018

**Professional Licenses**

Professional engineer in NH, ME and **NHDOT LPA certified #1807**



Owen Chaplin, PE

### Highway

Owen is a transportation engineer with a focus on highway design, multimodal projects, roadside safety, drainage design, and pavement management. Owen has successfully managed roadway capital improvement plans for several municipal clients. Many of the projects he manages include construction oversight and administration allowing him to see projects from start through completion.

- River Road/RT 302 Intersection Improvements, Windham, ME
- RT 27 and Darin Drive Intersection Improvements, Augusta, ME
- RT 4/17 Improvements, Jay, ME

### Education

B.S., Civil Engineering, University of Maine Orono

### Experience

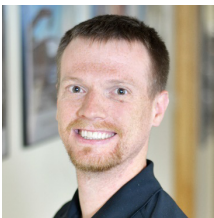
10 years

### Joined Firm

2022

### Professional Licenses

Professional engineer in ME



Steve Guerrette, PE

### Hydrology & Hydraulics

Steve has extensive experience with water resources-related projects including sewer systems evaluations and design, storm water management modeling, watershed characterization, and stormwater system design. His specialties center on hydrology and hydraulics as they pertain to wastewater, CSOs, dams, stormwater, and watershed systems.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Woodman Area Storm Drain Design, Rochester, NH
- Main Street Storm Drain Analysis, Somersworth, NH
- Drainage Study, Old Orchard Beach, ME

### Education

B.S., Civil Engineering, University of Maine, Orono

### Experience

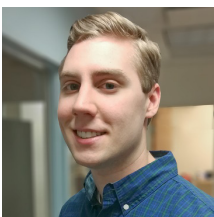
16 years

### Joined Firm

2007

### Professional License

Professional engineer in ME



Nate Edwards, PE

### Environmental Permitting

Nate has experience on projects ranging from private developments to industrial facility expansions to municipal roadway designs. His skill set includes hydraulic and hydrological modeling, developing construction plans and specifications, construction observation and documentation, and completing third-party review of proposed developments. He is experienced in AutoCAD Civil 3D, HEC-RAS, Hydraflow Storm Sewers, HydroCAD, Storm and Sanitary Analysis, and Land Surveying.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH

### Education

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

B.S., Environmental Engineering, University of New Hampshire

### Experience

6 years

### Joined Firm

2018

### Professional License

Professional engineer in ME



Lynn Frazier, PE, PTOE

### Traffic Subconsultant: Sewall Infrastructure

Lynn is a Certified Professional Traffic Operations Engineer with 17 years of experience in intersection and roadway operational analysis using Synchro/Sim Traffic, roadway design, striping, signing, and safety analysis. Her areas of specialization include traffic signal phasing and timing, traffic impact evaluation, roadway and intersection design and 3D traffic modeling. Lynn also has experience with specifications, drafting, project and utility coordination, estimates and scheduling.

- MainedOT Build Grant for Statewide Signal Design
- RT 1A/Western Intersection, Hampden, ME
- Hampden Bridge Bundle Design-Build, Hampden, ME

#### Education

B.S., Civil Engineering, University of Maine

#### Experience

17 years

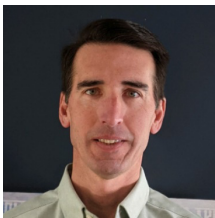
#### Joined Firm

2018

#### Professional Licenses

Certified Professional Traffic Operations Engineer

Professional engineer in NH, ME, FL, GA, MA, MI, RI, and WI



Jack Kaiser, PS

### Survey Subconsultant: Doucet Survey

Jack's experience includes project cost estimating, records research, boundary analysis, and computations. Of the many varieties of surveys he works on, Jack deals primarily with roadway surveys and construction layout. Roadway surveys include over 10 miles of new residential subdivision roads and over 60 miles of topographic surveys of local and state roads. The following projects are those where Doucet has worked with Wright-Pierce to provide survey services.

- Court and Union Street, Dover, NH
- Belknap and Elm Streets, Dover, NH
- RT 202A Water Main Extension, Rochester, NH

#### Education

A.S., Surveying & Mapping, University of New Hampshire

#### Experience

28 years

#### Joined Firm

2001

#### Professional License

NH Licensed Land Surveyor



Wayne Chadbourne, PE

### Geotechnical Subconsultant: Haley & Aldrich

Wayne has been involved in a variety of projects dealing with geotechnical and environmental aspects of design and construction for both private and public clients. His geotechnical project experience includes aspects of foundation design for bridges, tanks, utility lines, and other infrastructure, and lateral support systems for deep excavations. His experience also includes deep excavations, horizontal directional drilling, underpinning of structures, ground improvement, and use of various types of lightweight fills for building and embankment support.

- Beals Island Bridge Replacement, Beals, ME
- Back Cove South CSO Storage Conduit, Portland, ME
- University of Southern Maine Commons, Portland, ME

#### Education

M.S., Geotechnical Engineering, Tufts University  
B.S., Civil Engineering, University of Vermont

#### Experience

29 years

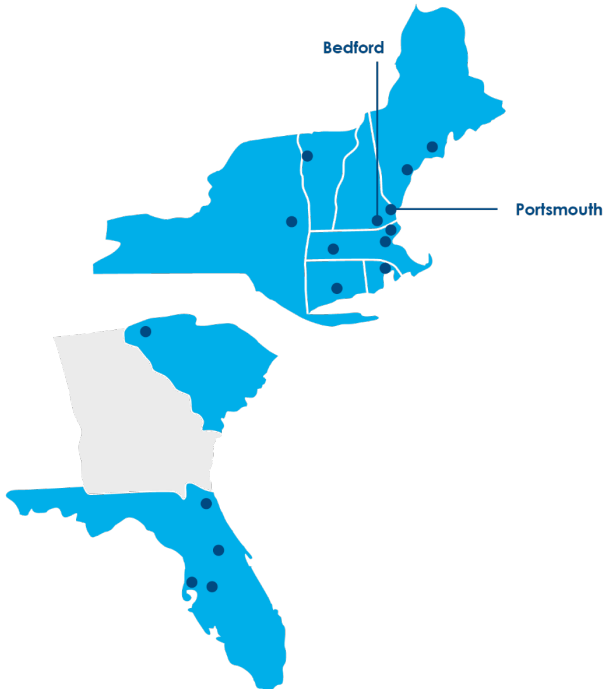
#### Joined Firm

1994

#### Professional Licenses

NH, ME, MA, GA

B



- PSMJ Circle of Excellence
- ACEC Award-Winning Projects
- ENR Top 500 Design Firms
- ENR Top 200 Environmental Firms
- ENR Top 40 Sewer and Waste Engineering
- ENR Top 20 Wastewater Treatment Plants



“ Our mission – to enhance your success by delivering reliable solutions, responsive service, and superior value.

## Wright-Pierce Overview

Wright-Pierce is an award-winning, multidiscipline engineering firm that has been providing civil infrastructure, drinking water, and wastewater services since 1947. Employee-owned and operated, our firm is made up of 300+ engineers and support professionals located in offices throughout the Northeast and Southeast. We complete many projects with construction values ranging from less than \$100,000 to more than \$100 million. We provide full-service engineering from initial planning to design, bidding, construction administration, and operational support.

## An Award-Winning Firm

Wright-Pierce has been recognized by several industry organizations for business performance and engineering excellence. We rank in Engineering News-Record (ENR) “Top” lists, including the Top 500 Design Firms and Top 200 Environmental Design Firms in the country. Many of our projects receive regional ACEC Engineering Excellence Awards.

In addition, Wright-Pierce is a multi-year winner of the PSMJ Resources, Inc. ‘Circle of Excellence’ Award. PSMJ is a firm dedicated to business practices of architectural and engineering (A/E) firms worldwide and bestows its Circle of Excellence award after assessing benchmarks for operations, management, and sustainability.

## Responsive Service Focused on Your Success

The cornerstone of our business is to assist our clients with improving their communities while protecting public health and the environment. For every project, we focus on the following:

- Understanding the project issues and goals
- Stressing practical, operator-friendly solutions
- Identifying fiscal constraints and emphasizing value-based solutions
- Involving and collaborating with our clients throughout the project

## Department of Transportation Services

When Wright-Pierce was first founded in 1947, the firm's primary client was the Maine State Highway Commission, now known as the Maine Department of Transportation (DOT). Since that time, we have grown and expanded our reach to assist many other state DOTs with hundreds of projects throughout the geographic areas we serve. As part of these projects, we have developed strong working relationships and hold prequalification certifications with the Maine DOT, Massachusetts DOT, New Hampshire DOT, and Connecticut DOT. Our experience in supporting DOT services with stewardship of transportation infrastructure across multiple modes has fortified our knowledge of local design practices for bridges and roadways in addition to AASHTO, ADA, AREMA, and FHWA design standards. To support DOT-related projects, Wright-Pierce provides an integrated team of experts with extensive experience in working with a variety of related technical challenges. Our in-house staff offer skills in the following areas:

- Bicycle and pedestrian facilities
- Street and highway design
- Intersection improvements
- H&H analysis
- Low impact stormwater management
- Culverts and drainage structures
- State and federal permits
- Highway safety enhancements
- Pedestrian safety improvements
- Piers and ports
- GIS and mapping
- Bridge inspection
- Bridge rating
- Bridge design
- Bridge coatings
- Retaining walls
- Appurtenant structures
- Construction administration
- Resident engineering



## Similar Project Experience

The project examples on the following pages demonstrate our experience with engineering planning and design services specific to civil infrastructure projects. Additional projects will be provided upon request.

### City of Lebanon, New Hampshire Street & Utility Reconstruction Projects

The City of Lebanon owns and operates a wastewater collection system that serves the areas of Lebanon and West Lebanon. The City is permitted to discharge flows in excess of collection system capacities through combined sewer overflows (CSOs) under their NPDES permit. The City is also under the requirements of an EPA Consent Decree issued in 2009. Throughout the past two decades, the City has worked with Wright-Pierce and the NHDES to resolve inflow/infiltration (I/I) and CSO issues and make the



Scan or click to watch a video project story with the City and NHDES.

### Highlights

- Final planning, design, and construction management
- Neighborhood revitalization
- Street base and pavements
- Curbing and sidewalks
- Storm drainage
- Retaining walls
- Sewers and water mains
- Signage and pavement markings



surrounding waterways cleaner and safer. The CSO program consists of 13 separate contracts totaling over \$60M in construction costs. The scope and scale of the project includes ~14.5 miles of roadway improvements, ~18 miles of sidewalks, ~12.5 miles of sewer infrastructure, ~13.5 miles of stormwater infrastructure, and ~12.6 miles of water infrastructure and has removed an estimated 250 catch basins from the collection system.

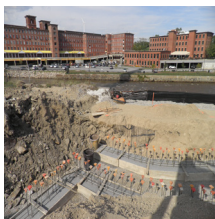
**City of Somersworth, New Hampshire  
Roadway & Utility Reconstruction**



Revitalization of historic downtown area and addressing aging water, sewer, and stormwater infrastructure.

Wright-Pierce was retained to provide design, permitting, and bidding for roadway and utility improvements on Cemetery Road (3,350 linear feet), Constitutional Way (630 linear feet), and a portion of Main Street (3,750 linear feet). The primary goals of this project are to revitalize and improve the historic downtown area of Somersworth, and address the City’s aging water, sewer, and stormwater infrastructure. Project work includes survey; geotechnical explorations and analysis; ~7,730 LF of full-depth roadway reconstruction; ~7,750 LF of new sidewalk and curbing; replacement of ~6,525 LF of sanitary sewer infrastructure; replacement of ~7,730 LF of water infrastructure; improvements to stormwater infrastructure and bike/pedestrian facilities in accordance with ADA; traffic calming and complete street considerations; and public meeting facilitation.

**City of Biddeford, Maine  
Biddeford Riverwalk & Sewer Separation Projects**



Wright-Pierce fast-tracked the project and followed it from the drawing board through bidding and construction.

Wright-Pierce has performed several civil, sewer, and water-related projects for the City including multiple phases through final design and construction for the Biddeford Riverwalk Master Plan. Phase I included a small park and cantilevered overlook, pedestrian sidewalks, connection of a pedestrian bridge crossing the Saco River to the City of Saco, utility tunnel rehabilitation, and redevelopment of a brownfield site to a park. The project involved coordination with mill owners; working within the confines of state, federal, and local regulatory requirements; ADA compliance; lighting; safety and enhanced pedestrian crossing at Main Street. Wright-Pierce assisted the City with ARRA grant funding applications for these projects.

**Dates**

2000 – 2022 (estimated)

**Related Team Members**

Ryan Wingard, Jeff Preble, Britt Eckstrom, Jan Wiegman, Jason Gallant, Chris Berg, Nate Edwards, Jacob Shactman, Steve Guerrette, Charlie Daigle

**Highlights**

- Roadway reconstruction
- Utility improvements
- Stormwater system upgrades
- LID design
- Permitting
- Bike/ped facilities
- ADA compliance
- Traffic calming

**Dates**

2018 – 2023 (estimated)

**Related Team Members**

Ryan Wingard, Britt Eckstrom, Jason Gallant, Chris Berg, Nate Edwards, Jacob Shactman, Charlie Daigle

**Highlights**

- Design integral to mill district redevelopment
- Coordination with owners
- Multi-phase project
- CSO master planning effort
- ARRA funding was predicated on the project being "shovel ready" within a short time frame
- Pedestrian walkways/bridge

**Dates**

2013 – Ongoing (Phase 2)

**Related Team Members**

Jason Gallant, Ryan Wingard, Charlie Daigle, Matt Severson

## Town of Hudson, NH

### Bridge/Culvert Evaluations & Rehabilitation



Melendy Road



County Road



Lowell Road #2



Lowell Road

Wright-Pierce is providing design and construction phase services for multiple bridges along three roads in Hudson. Design for each of the three projects is funded by the NHDOT for rehabilitation and replacement of municipally owned bridges. The Melendy Road project is anticipated to be funded for construction through the SAB program. Services include bridge inspection and condition assessments, hydrologic/hydraulic analyses, rehabilitation and replacement design, permitting, and development of technical specifications and construction phase services.

- **Melendy Road.** The proposed project includes the replacement of the bridge with a 17'-0" clear opening precast concrete rigid frame superstructure supported on cast-in-place concrete footings. The existing stone masonry wingwalls will be modified as required to incorporate them into the new bridge.
- **County Road.** The proposed bridge rehabilitation includes partial demolition of the existing bridge deck to reconstruct the bridge curbs to widen the bridge and install new, AASHTO-compliant bridge rails; modifications of the abutments to create a bridge seat to accommodate the widened bridge deck; and associated guardrail end treatments. The rehabilitated bridge will carry two, 11-foot travel lanes and two, 1-foot shoulders when completed.
- **Lowell Road # 2 (NH Route 3A).** Proposed project will rehabilitate the bridge, including demolition of the existing superstructure and replacement with a precast concrete deck beam superstructure with modifications of the existing bridge seat to accommodate the proposed superstructure; installation of new bridge rail; and associated bridge approach guardrail on the east side of the bridge that ties into existing guardrail.
- **Lowell Road.** The bridge is a metal plate arch structure measuring 160 feet in length with a 10-foot span. We structural design, detailed hydrologic/hydraulic analyses, culvert sizing analysis, permitting, and construction observation and administration for a structural concrete invert lining of the bridge to extend its service life.

#### Bridge Information

**Bridge:** Melendy Road  
**Type:** Concrete Rigid Frame  
**Clear span:** 18 feet  
**Number of lanes:** 2  
**Load capacity:** HL-93

**Bridge:** County Road  
**Type:** Concrete Slab  
**Clear span:** 10 feet  
**Number of lanes:** 2  
**Load capacity:** HL-93

**Bridge:** Lowell Road #2  
**Type:** Concrete Slab  
**Clear span:** 14 feet  
**Number of lanes:** 2  
**Load capacity:** HL-93

**Bridge:** Lowell Road  
**Type:** Metal plate arch  
**Clear span:** 10 feet  
**Number of lanes:** 2  
**Load capacity:** HL-93

#### Dates

2022 – ongoing

#### Key Team Members

Ryan Wingard, Jason Gallant,  
 Matt Severson, Westley Nuhn,  
 Jake Shactman, Ryan Quaglieri

## Town of Exeter, New Hampshire

### Garrison Lane & Linden Street Bridges NHDES PBN



Linden Street



Garrison Lane

The Town of Exeter retained Wright-Pierce to provide design and NHDES permitting services for the evaluation and repair/replacement of multiple bridges.

- Linden Street Bridge.** This 58-foot span timber deck and glulam beam bridge was built in 1993 and includes a substructure with pile supported beams wrapped in mechanically stabilized earth (MSE). Settlement of the MSE wingwalls and abutments has resulted in corresponding settlement of the roadway approaches to the bridge. A long-term solution is needed to improve rideability and serviceability of the bridge. The proposed bridge rehabilitation will include abutment and wingwall repairs, deck surface repairs, bridge rail upgrades, and installation of approach slabs to ease the transition from roadway approaches to the bridge structure.
- Garrison Lane Bridge.** The rehabilitation project for this bridge, which crosses Little River with a 25-foot span, included design of scour hole repairs, concrete abutment repairs, bridge rail replacement, and deck and running board replacement. NHDES Wetlands permitting was completed on behalf of the Town prior to beginning work. A new load rating was provided to NHDOT reflecting the completed repairs.

#### Bridge Information

**Bridge:** Garrison Lane

**Type:** Steel beams, timber deck

**Clear span:** 25 feet

**Number of lanes:** 2

**Load capacity:** HL-93

**Bridge:** Linden Street

**Type:** Timber beams, timber deck

**Clear span:** 58 feet

**Number of lanes:** 2

**Load capacity:** HL-93

#### Dates

2022 – ongoing

#### Key Team Members

Ryan Wingard, Jason Gallant, Jake Shactman, Westley Nuhn, Matt Severson, Britt Eckstrom

## Town of Wiscasset, Maine

### Tidal Culvert Replacement at Old Ferry Road



Wright-Pierce's design efforts will help protect the local environment and allow safe passage for vehicles.

Wright-Pierce is designing a replacement for the Old Ferry Road tidal culvert and tidal stream bridge crossing to protect the environment, maintain utility infrastructure, and allow safe travel for vehicles. We conducted field and topographic surveys at the project site to assess the existing conditions and created a base map that was used during the study phase of the project. The study phase included a hydrologic analysis using HydroCAD; hydraulic modeling using HEC-RAS; analysis of the effects of sea level rise scenarios on the watershed using the CoastWise Approach; and culvert sizing analysis. After the study phase, preliminary design plans were developed for roadway and bridge improvements for permitting. The final design will make considerations for sea level rise over the 75-year design life of the replacement bridge and will be in accordance with CoastWise and MaineDOT standards.

#### Highlights

- Tidal culvert replacement
- Field and topographic surveys
- Base map creation
- Hydrologic analysis and sea modeling
- Culvert sizing analysis
- 75-year design life considerations

#### Dates

2020 – Ongoing

#### Related Team Members

Jason Gallant, Ryan Wingard, Matt Severson, Jaime Wallace, Westley Nuhn, Ryan Quaglieri



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