GALE

New Hampshire Department of Transportation (NHDOT)

Statewide On-Call Construction Engineering and Inspection Services

Prequalified List of Consultants for Locally Administered Local Public Agency (LPA) Qualifications-Based Selection Contracts

January 19, 2024

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1. Introduction Letter

Gale Associates, Inc.
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www.galeassociates.com

January 19, 2024

Mr. William J. Oldenburg, PE
Assistant Director of Project Development
Chairperson, Consultant Selection Committee
New Hampshire Department of Transportation
7 Hazen Drive
Concord, NH 03302-0483

Re: **Statewide On-Call Construction Engineering and Inspection Services**
Prequalified List of Consultants for Locally Administered Local Public Agency (LPA)
Qualifications-Based Selection Contracts

Dear Mr. Oldenburg:

Gale Associates, Inc. is pleased to submit our Letter of Interest to provide Statewide On-Call Construction Engineering and Inspection Services for locally administered projects through the New Hampshire Department of Transportation (NHDOT) Local Public Agency (LPA) program.

Established in 1964, Gale has provided planning, design, and construction phase services to federal, state, and municipal clients for over 60 years. Our firm employs over 100 professional planners, engineers, architects, construction engineers, and support staff throughout the New England area. We have been servicing the state of New Hampshire for over 30 years out of our Bedford office.

Gale has extensive experience providing responsive construction phase services on federal and municipal funded projects in New Hampshire. We have the knowledge to observe the construction requirements associated with LPA projects. Gale understands a successful project requires communication with stakeholders, detailed observation of construction activities, organized record keeping of project documents, and frequent collaboration with both the Contractor and the Engineer-of-Record.

We look forward to assisting NHDOT and appreciate the opportunity to submit our Letter of Interest. Thank you for your consideration.

Sincerely,

Gale Associates, Inc.

Jon F. Lindberg, P.E., RRC
Principal

Scott M. Bourcier, P.E., LPA
Project Manager

JFL/slr

Attachments

2. Project Understanding and Approach

Project Understanding

LPA Project Sponsors have endured a process of identifying community needs, preparing funding applications, advocating through the grant selection, and completing the Preliminary Engineering (PE) phase. The final step, Construction Engineering (CE) phase, is an exciting step that implements the community's vision. Constructing a vision, demands a team with in-depth knowledge of engineering principles, construction practices, and funding requirements. Gale's team of project managers and field engineers have the in-depth knowledge to assist in turning a community vision into a reality.

Project Approach

As a corporation, Gale has been providing successful CE phase services for over 60 years to federal, state, and municipally funded projects. We understand the requirements of the NHDOT LPA Manual in relation to construction activities; will be an extension of the LPA Sponsor, NHDOT, and Engineer-of-Record team; and anticipate providing the following for each construction assignment.

- **Office of Federal Compliance (OFC).** Gale will coordinate with the contractor and NHDOT OFC to confirm that all David-Bacon labor compliance provisions have been completed. This includes, but is not limited to, reviewing contractor labor categories, confirming subcontractor approvals, maintaining daily sign-in logs, and performing labor standard interviews. Gale will be available to support OFC's periodic site visits and record reviews. Gale will retain copies of all labor compliance records through the duration of the project. Once the project has been accepted as "closed" by NHDOT, these records will be transferred to the LPA Project Sponsor for archiving.

- **NHDOT Construction Compliance.** Gale will perform CE phase services in accordance with Section 27 of the LPA Manual, which includes Daily Reports, Bound Field Notebook, Correspondence Book, Quantity Book, Record Book, Lab Book, Record Plans, and Engineer's Estimate of Balance and Excesses.

- **Construction Observation.** Gale is capable of providing part-time, full-time, or on a hybrid schedule, construction observation services as appropriate and agreed to by the LPA Project Sponsor and NHDOT. Prior to the commencement of an LPA construction project, the project manager and resident engineers will review all applicable plans, specifications, contract documents, and associated supplemental project requirements (i.e., Federal, State, and/or Local permits, NEPA documentation, permanent and/or temporary construction easements, etc.). Gale's goal is to be a "team player" identifying potential issues before they become problems that delay construction schedule or increase construction costs.

- **Request for Information.** Gale will closely collaborate with the LPA Project Sponsor, NHDOT, and the Engineer-of-Record to obtain clarification and/or understanding with respect to the construction project plans, specifications, contract documents, and associated supplemental project requirements. Gale understands that we are an extension of the LPA project to accomplish a successful community project.

- **Shop Drawings / Buy America.** Gale will review shop drawings and material submittals for compliance with project specifications, requirements, and Buy America provisions. In addition, Gale will request/review Certificate of Compliance and other supplemental documentation that have been received by the contractor. Materials (e.g., steel, iron, etc.) that have not been approved by the Engineer of Record (i.e., meeting project specifications, provisions, and/or requirements) will be rejected from being installed/incorporated into the construction project.

- **Progress Meetings.** Gale will convene for pre-construction and monthly progress construction meetings with the LPA Project Sponsor, contractor, NHDOT Project Manager, NHDOT OFC Representative, the Engineer-of-Record, and other appropriate parties. Pre-construction meeting discussion topics may include points-of-contacts and lines-of-communication, project requirements, schedule, and special challenges. During monthly progress construction meetings, discussion topics may include construction progress status, schedule, shop drawing/submittal status, payment requisition, request for information and/or change order, and miscellaneous project items. Gale will prepare, distribute, and file meeting minutes that identifies attendees, discussions had, and direction provided.

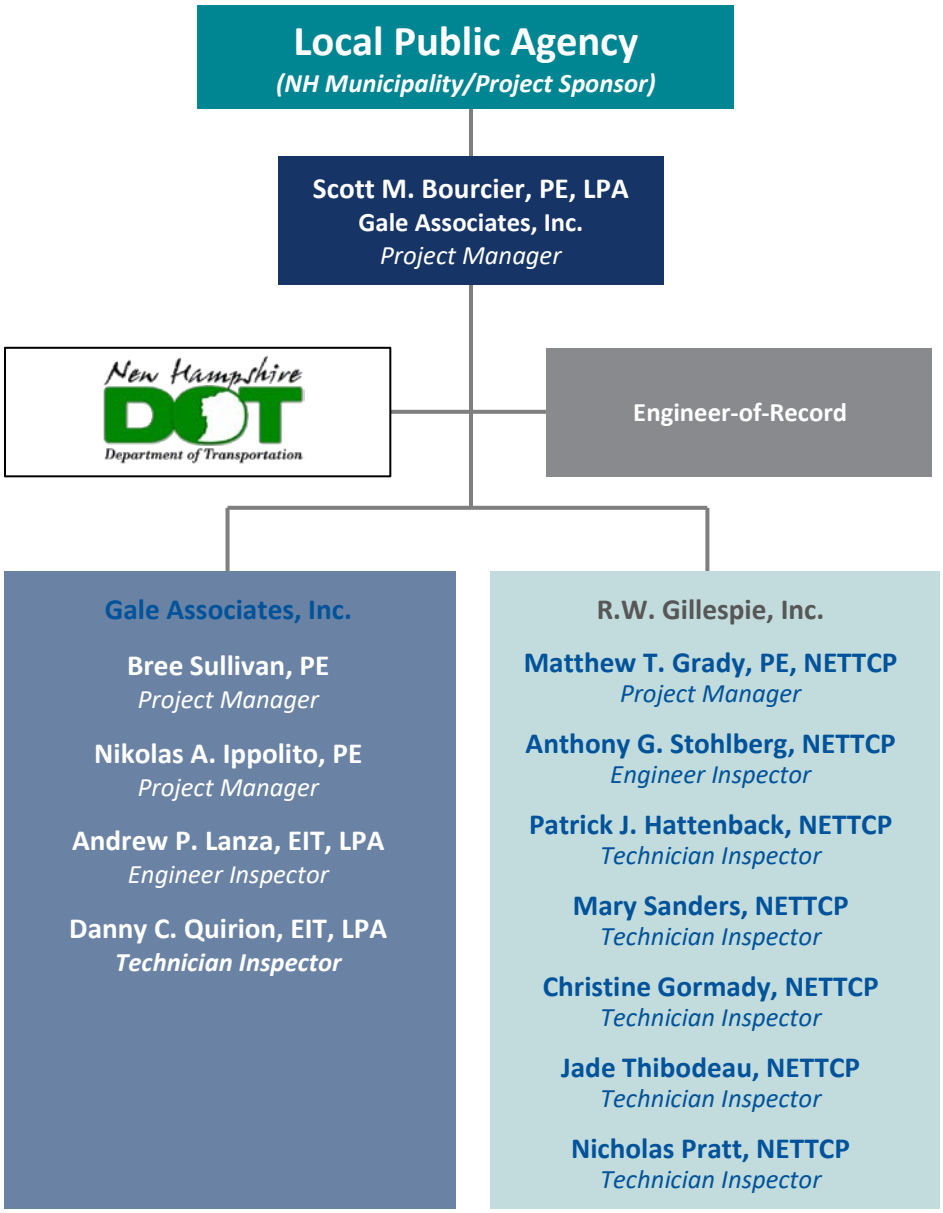
- **Material Testing.** Gale will retain the services of a local qualified materials testing firm to perform sampling and testing of all materials required by the project's Quality Assurance Program (Section 27.7 of the LPA Manual) and in conformance with NHDOT specifications. Whenever possible, Gale anticipates utilizing a Disadvantaged Business Enterprise (DBE) or a local qualified materials testing firm. However, if not feasible, Gale will utilize R.W. Gillespie & Associates, Inc. to provide material testing services for a significant portion of the projects.

- **Contractor's Application for Payment.** Gale will measure, and record installed quantities of materials daily, when on site. The daily recording of pay item quantities / materials will be logged in the Quantity Book in accordance with Section 27.5 of the LPA Manual, maintained throughout the duration of the project, and be retained with the project records. Gale will review quantities with the contractor, which will be the basis for the contractor's monthly application for payment. The payment request will be forwarded to the LPA Project Sponsor for review/acceptance.

- **Change Order Requests.** Gale will review construction project claims for extra work or extension of contract days submitted by the contractor for appropriateness/fairness and prepare a response. Gale's response will include documentation of field conditions and/or design changes prepared by the Engineer of Record, justification of the extra work or schedule extension, complete/compare an Independent Government Estimate (IGE) of the contractor's financial request, and review construction schedule impacts. The change order response document will be submitted to the LPA Project Sponsor and NHDOT for review. No construction activities associated with the contractor's change order request will be performed until approved by the LPA Project Sponsor and ultimately authorized by NHDOT.

- **Project Closeout.** Gale will prepare the necessary project closeout documentation including, but not limited to, Certificate of Substantial Completion, Punch List, Certificate of Final Completion of Work, Consent of Surety Company to Final Payment, Contractors Final Lien Waiver, Financial Summary, Representative Photographs (before and after), and As-Built Plans. Once the project has been accepted as "closed" by NHDOT, these records will be transferred to the LPA Project Sponsor for archiving.

3. Organizational Chart


Local Public Agency
(NH Municipality/Project Sponsor)
Scott M. Bourcier, PE, LPA
Gale Associates, Inc.
Project Manager
New Hampshire DOT
Department of Transportation
Engineer-of-Record
Gale Associates, Inc.
Bree Sullivan, PE
Project Manager
Nikolas A. Ippolito, PE
Project Manager
Andrew P. Lanza, EIT, LPA
Engineer Inspector
Danny C. Quirion, EIT, LPA
Technician Inspector
R.W. Gillespie, Inc.
Matthew T. Grady, PE, NETTCP
Project Manager
Anthony G. Stohlberg, NETTCP
Engineer Inspector
Patrick J. Hattenback, NETTCP
Technician Inspector
Mary Sanders, NETTCP
Technician Inspector
Christine Gormady, NETTCP
Technician Inspector
Jade Thibodeau, NETTCP
Technician Inspector
Nicholas Pratt, NETTCP
Technician Inspector

4. Project Team

Gale Associates, Inc. is pleased to identify the following team members experienced in Local Public Agency (LPA) projects. **Project Manager, Scott M. Bourcier (LPA Certification #1077)** is a **Professional Engineer (NH #11910)** and has over 24 years of civil and engineering experience in study, design, permitting, and construction observation for municipal, state, and federal clients. **Andrew Lanza (LPA Certification #2167),** and **Danny Quirion (LPA Certification #1077)** have 15 years of combined experience providing resident engineering services on state and municipal construction projects. **Nikolas Ippolito** is a **Professional Engineer (NH #14250)** and offers 16 years of experience providing engineering, permitting, and design services. **Bree Sullivan** is a **Professional Engineer (NH #16702)** and has over 30 years of civil engineering experience, including corridor reconstruction (road, water, sewer, and drainage), hydraulics & hydrology, evaluation, bridge/culvert condition assessments, and site development. She is familiar with local, state, and federal regulations and coordinates closely with state and municipal officials throughout New Hampshire.

In addition to the proposed team identified in the matrix below, we offer extensive in-house support services including civil engineering, landscape architecture, structure engineering, airport engineering and planning, athletic facilities planning and design, and building enclosure design and consulting.

R.W. Gillespie & Associates

Gale has teamed with **R.W. Gillespie & Associates** to provide high quality geotechnical engineering, materials testing, and inspection services. Their goal is to help clients identify and manage project's subsurface uncertainties during site assessment and design, thus reducing the potential for construction delays and unanticipated costs. Their materials testing and inspection services provide necessary quality assurance and quality control functions.

R.W. Gillespie's staff members are **NorthEast Transportation Training and Certification Program (NETTCP) Certified**. Project Manager, **Matthew T. Grady** is a **Professional Engineer (NH #10972)** and has 30 years of experience and is responsible for developing, credentialing, and operations of their Materials Testing Department and in-house lab. **Anthony G. Stohlberg** has 7 years of experience and provides field QA/QC testing of soils, concrete and asphalt, and associated laboratory work. **Patrick J. Hattenback** has 13 years of experience and is a third-party firestop inspector where he inspects firestop installations for conformance with submitted details and is responsible for field QA/QC testing of soils, concrete, masonry, steel and bolted connections, and associated laboratory work. **Mary Sanders** has 12 years of experience and provides field QA/QC testing of hot mix asphalt, soils, and concrete, as well as associated laboratory work. **Christine Gormady, Jade Thibodeau,** and **Nicholas Pratt** provide field QA/QC testing of soils and concrete and associated laboratory work.

We also acknowledge that additional subconsultants may be required, depending on specific task needs; these may include *water and air quality testing, subsurface investigations/soil borings (driller), traffic counts, historic resource review, and archaeological site assessments*. Gale will propose to enter into agreements with these specialty subconsultants on a project-by-project basis based on the proposed scope of work and schedule.

CONSTRUCTION ENGINEERING AND INSPECTION SERVICES IN SUPPORT OF LPA PROJECTS		YEARS OF EXPERIENCE	YEARS WITH FIRM	TECHNICIAN INSPECTOR – LEVEL I	TECHNICIAN INSPECTOR – LEVEL II	TECHNICIAN INSPECTOR – LEVEL III	ENGINEER INSPECTOR – LEVEL I	ENGINEER INSPECTOR – LEVEL II	ENGINEER INSPECTOR – LEVEL III	PROJECT MANAGER/CON. ENG OF R RECORDE	ENVIRONMENTAL INSPECTOR	NH LICENSED PROFESSIONAL ENGINEER	CESSWI CERTIFIED	CPESC CERTIFIED	NETTCP CERTIFIED	LPA CERTIFIED
KEY PERSONNEL	**PROJECT ROLE**															
Scott M. Bourcier	Project Manager	24	3							✓		✓				✓
Bree Sullivan	Project Manager	31	3							✓		✓				
Nikolas A. Ippolito	Project Manager	16	17							✓		✓				
Andrew P. Lanza	Engineer Inspector	3	4				✓									✓
Danny C. Quirion	Technician Inspector	12	13			✓										✓
Matthew T. Grady	Project Manager	30	22							✓		✓			✓	
Anthony G. Stohlberg	Engineer Inspector	7	8					✓							✓	
Patrick J. Hattenback	Technician Inspector	13	7		✓										✓	
Mary Sanders	Technician Inspector	12	10		✓										✓	
Christine Gormady	Technician Inspector	4	5	✓											✓	
Jade Thibodeau	Technician Inspector	5	6	✓											✓	
Nicholas Pratt	Technician Inspector	3	4	✓											✓	

5. References

CLIENT	POINT OF CONTACT
Town of Hillsborough 27 School Street P.O. Box 7 Hillsborough, NH 03244	Ms. Robyn Payson Town Planner (603) 464-3877 ext. 227 robyn@hillsboroughnh.net
City of Claremont 14 North Street Claremont, NH 03743	Mr. Thomas Krebs Planning and Development Project Manager (603) 504-0349 tkrebs@claremontnh.com
Town of Newmarket 186 Main Street Newmarket, NH 03857	Ms. Steve Fournier Town Manager (603) 659-3617 sfournier@newmarketnh.gov
City of Nashua Nashua Airport 93 Perimeter Road Nashua, NH 03063-1325	Mr. Chris Lynch Airport Manager (603) 882-0661 chrislynch@nashuaairport.com

Appendix A: Resumes

SCOTT M. BOURCIER, PE, LPA

PROJECT MANAGER

EDUCATION

BS, Civil Engineering
University of New Hampshire

LICENSURE/CERTIFICATION

Professional Engineer, NH #11910
NHDOT LPA Certification #1077
OSHA 10-Hour Construction Course

Mr. Scott Bourcier is a New Hampshire Licensed Professional Engineer and has his NHDOT LPA Certification. Scott has over 24 years of civil engineering experience in study, design, permitting, and construction observation for municipal, state, and federal clients, with a wide range of projects. His breadth of civil engineering knowledge encompasses road (design and pavement management), utilities (water, sanitary, drainage), pedestrian infrastructure (ADA accessibility and crosswalks), NHDOT specifications, site development, stormwater management, bridges, dams, and recreation parks. Mr. Bourcier is familiar with local, state, and federal regulations and coordinates closely with state and municipal officials. His project experience includes:

Dover Point Road Bicycle Shoulder Corridor Study, Dover, NH

Engineering study for the Transportation Enhancement (TE) Engineering Report for the City of Dover, Dover Point Road Bicycle Shoulder Corridor (State Project No.: 13128) located in Dover, NH. The report was prepared to evaluate and recommend bicycle corridor alternatives to assist commuters utilizing alternative modes of transportation to, from and within the City of Dover. Project included site evaluation, planning/recommendation of bicycle routes, prepare conceptual plans of feasible alternatives, quantity take-off/cost estimating, summary report, and coordination with City officials and NHDOT.

Durham Road Bicycle Shoulder Improvements, Dover, NH

Construction phase services for the 1.6-mile Durham Road bicycle shoulder widening as part of the City's and NHDOT's TE program.

Safe Route to School Pedestrian Improvements, Hillsborough, NH

Engineering study, design, and construction phase services for the FHWA funded / NHDOT administered, town managed pedestrian improvements of approximately 1,100 linear feet along Brown Street, Church Street, and Walnut Street in association with the Hillsborough-Deering Elementary and Middle Schools. Design included survey, pedestrian accessibility (sidewalk, ADA, and crosswalks), NEPA documentation, construction observation / recording, and collaboration with NHDOT officials, town officials, and selected contractor.

Transportation Alternative Program (TAP), Hillsborough NH

Engineering study phase services for the FHWA funded / NHDOT administered, Town managed pedestrian improvements of approximately 4,400 linear feet along West Main Street. Project included survey, pedestrian accessibility (sidewalk, ADA, and crosswalks), NEPA documentation, and collaboration with NHDOT officials and town officials.

Establishing School Zone, NHDOT – SRTS Program, Hopkinton, NH

Engineering study phase services for the FHWA funded / NHDOT administered, Town managed establishing school zone limits association with the Hopkinton Middle and High Schools. Project included survey, pedestrian accessibility (sidewalk, ADA, and crosswalks), NEPA documentation, and collaboration with NHDOT officials and town officials.

1891 Boston & Maine Baggage Building Rehabilitation, Exeter, NH

Engineering study phase services for the FHWA funded / NHDOT administered, Town managed engineering evaluation on an 1891 Boston & Maine Baggage Building. The goal of the study was for the Town to purchase the privately owned building and convert to a ticket station to support the Amtrack Downeaster. Civil project component included evaluation of civil/site design, ADA access, grading/drainage/erosion control, surface material (bituminous and concrete) conditions, general site safety. Project also included Architectural, Structural, Mechanical, Electrical, and Plumbing evaluations. Summary and recommendation report was prepared and submitted to Town officials and NHDOT for consideration.

Windham Depot Rehabilitation & Rail Trail-head Site Improvements, Windham, NH

Engineering study, design, NEPA documentation, permitting, and construction phase services for an American Recovery and Reinvestment Act (ARRA) funding to rehabilitate an historic Windham Depot and Freight buildings and Windham Rail Trail site improvements. Project included topographical survey, rehabilitation/repairing the existing Depot and Freight buildings (roof, siding, platform, architectural features), 33-stall parking lot improvements, crosswalk improvements, landscaping, signage, and coordination with Town officials (Administrating, Public Works, Rail Trail Alliance), NHDOT, NHDHR, historians, archeologists, and selected contractor.

Old Lakeshore Road Drainage Improvements, Gilford, NH

Stormwater evaluation study to address flooding and erosion issues at the intersection of Old Lake Shore Road / Lake Shore Road that impacted the performance of the NHDOT's right-of-way drainage swale. Project included site assessment of existing conditions, watershed delineation, drainage analysis, and recommended improvement measures. Once the Town selected the recommended alternative, construction plans were developed implementing the recommended alternative.

Town Engineer and Planning Board Representative, Various Locations, NH

Review of subdivision and site plan applications and associated construction observations submitted to the Planning Board for roadways, intersections, traffic impact, stormwater runoff, utilities (water/sewer), geotechnical, and erosion control to conform to Federal, State and City/Town zoning ordinance and development regulations for locations throughout New Hampshire including:

- Barrington (2011 – 2021)
- Bow (2012 – present)
- Chester (2003 – present)
- Epping (2002 – 2004)
- Freemont (2016 – 2021)
- Hampstead (2016 – 2021)
- Hillsborough (2020 – present)
- Milton (2018 – present)
- Raymond (2014 – 2021)
- Somersworth (2015 – 2019

Prescott Road Reconstruction & Bridge Replacements, Brentwood, NH

Engineering design and construction phase services for the full-depth reconstruction of approximately 3,600 linear feet of Prescott Road. Project included survey, subsurface geotechnical investigation, wetland delineation, roadway improvements, intersection conversion from a Y to a T-layout, hydrologic & hydraulic (H&H) evaluation, two (2) pre-cast concrete bridge replacements, drainage improvements, filing of NHDES wetlands permit, NHDES filing stream crossing permit, NHDOT driveway permit for NHDOT maintained North Road, construction observation / recording, and collaboration with Town officials and selected Contractor.

ANDREW P. LANZA, EIT, LPA

ENGINEER INSPECTOR

EDUCATION

BS, Civil Engineering
University of New Hampshire, Durham, NH

LICENSURE/CERTIFICATION

Engineer in Training, NH #7231
NHDOT LPA Certification #2167
OSHA 10-Hour Construction Course
OSHA 10-Hour General Industry Course

Mr. Andrew Lanza is certified as a NHDOT LPA. Andrew has 3 years of experience specializing in design/planning, permitting, and construction phase services. He provides engineering design, construction observation, contractor coordination, cost control, quality control, and monitoring of safety measures. Most recently, he provided resident engineering services for the rehabilitation of multiple airfield pavements (taxiway, taxilanes) to access the runway and hangar complexes at the Nashua Airport in Nashua, New Hampshire. He also assisted in the design, bidding, and construction phase services necessary for the effective maintenance of airfield pavement at the Mount Washington Regional Airport in Whitefield, New Hampshire.

DANNY C. QUIRION, EIT, LPA
TECHNICIAN INSPECTOR

EDUCATION
AS, Engineering Science
Daniel Webster College, Nashua, NH

LICENSURE/CERTIFICATION
Engineer in Training, MA #177776
NHDOT LPA Certification #1077

Mr. Danny Quirion is certified as a NHDOT LPA. Danny has 12 years of experience specializing in design/planning, permitting, and construction phase services. Mr. Quirion provides resident engineering, construction observation, contractor coordination, cost control, quality control, and monitoring of safety measures. Most recently, he provided design engineering services, including plan and pavement design for maintenance of aprons, taxiways, and taxilanes; resident engineering services for the grooving of primary runway; and assisted in the design of plans and provided resident engineering services for runway, stub taxiways and Taxiway A for the Nashua Airport in Nashua, New Hampshire.

MATTHEW T. GRADY, PE, NETTCP
PROJECT MANAGER

EDUCATION
BS, Civil Engineering
University of Massachusetts, Dartmouth, MA

LICENSURE/CERTIFICATION
Professional Engineer, NH #10972
Concrete Inspector - ACI Concrete Field-Testing Technician - Grade I
Concrete Technician - Northeast Transportation Technician Certification Program (NETTCP)
Quality Control Personnel Certification, Level II - Precast/Prestressed Concrete Institute (PCI)
ICC Spray Applied Fire-proofing Inspector
Department of Transportation HAZMAT Certification

Mr. Matthew Grady is responsible for the development, credentialing, and operations of our Materials Testing Department and in-house lab. His duties include training, supervision and scheduling of the MTS field and lab personnel, project coordination, technical consulting services, and reporting lab results. He established and maintaining the American Association of State Highway and Transportation Officials R18 lab accreditation status. Mr. Grady also serves as a Geotechnical Engineer supporting RWG&A's Geotechnical Engineers on a wide variety of projects. His project contributions have included in-field geotechnical assessment and observation, pile driving inspection, along with geotechnical engineering analyses, design, and technical report preparation.

PATRICK J. HATTENBACK, NETTCP

TECHNICIAN INSPECTOR

EDUCATION

BA, Biological Sciences
University of Buffalo, Buffalo, NY

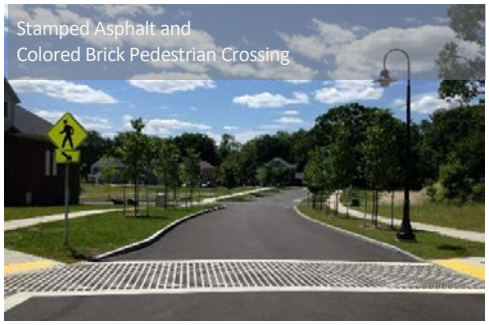
LICENSURE/CERTIFICATION

Hot Mix Asphalt Paving Inspector – Northeast Transportation Training and Certification Program
Hot Mix Asphalt Plant Inspector, Northeast Transportation Training & Certification Program
PCI Certified Level II Quality Control Technician/Inspector
Soil & Aggregate Inspector – Northeast Transportation Training & Certification Program
IFC – 3rd Party Firestop Inspector
ACI Concrete Field-Testing Technician, Grade I
ACI-CRSI Adhesive Anchor Installer
ACI Reinforced Concrete Special Inspector
ICC EC Soils Special Inspector
ICC 84 Structural Masonry Special Inspector
ICC S1 Structural Steel and Bolting Special Inspector
Completed Troxler Electronic Laboratories, Inc., Compaction and Density Testing
Department of Transportation HAZMAT Certification

Sealed Source XRF, Radiation Safety, Compliance & UD DOT Transportation

Mr. Patrick Hattenback is a third-party firestop inspector where he inspects firestop installations for conformance with submitted details. Mr. Hattenback is responsible for field QA/QC testing of soils, concrete, masonry, steel and bolted connections, and associated laboratory work. His experience includes performing the standard tests for soils and fresh and hardened concrete, masonry, steel, and bolted connections in conformance with ASTM, AASHTO and other applicable procedures. He also calculates and reports laboratory and field test results. Project experience includes commercial and industrial facilities, transportation, educational, and infrastructure projects.

Appendix B: Applicable Work Experience



Village Hill, Northampton, MA

Ford Crossing Roadway Construction

Gale performed site engineering services to design and administer construction of approximately 1,000 linear feet of roadway at Village Hill in Northampton, MA.

Gale's Services

- Prepared preliminary and definitive subdivision plans incorporating layout, grading, drainage, and utility design
- Performed a detailed topographic survey, test borings and assessed overall project site conditions
- Geometric design using AASHTO standards and pavement design based on FHWA and MassDOT standards
- Prepared detailed hydrologic calculations to obtain a Stormwater Management Permit through the City's Engineering Department; the roadway contained numerous utilities which required coordination with the local DPW and other utility providers
- Obtained permit approvals through the City of Northampton and administered public bidding of the project under MGL.30-39M
- Administered construction by performing periodic site visits, held bi-weekly construction meetings, reviewed submittals, RFI's and payment requisitions
- Supervised testing procedures for water and sewer utilities; upon project completion, prepared record drawings and street acceptance plans for City approval

Wolfeboro Area Recreation Complex, Wolfeboro, NH

New 50-Acre Municipal Park and Athletic Complex

Gale provided planning, design, environmental permitting, bidding, and construction period services for a new 50-acre municipal park and athletic field complex within an abandoned gravel pit site.

Gale's Services

- Comprehensive landscape design services including a network of jogging trails and access drive connected to a parking area for 150 cars
- Premium quality adult baseball stadium, two Little League baseball fields, and a premium softball field
- Two premium soccer fields, one being a sand-based, NCAA compliant layout accommodating two youth soccer fields
- All-weather synthetic "filled-turf" multi-purpose field with a new eight-lane, 400 m urethane surface running track
- Two basketball and four tennis court facilities with fencing and lighting
- Two tot-lot playground areas with concession/public toilet facilities and picnic areas, all fully ADA accessible
- New site lighting and athletic lighting for all venues
- Comprehensive stormwater management design, the development of a full irrigation system, and site utilities


Village Hill

Village Hill, Northampton, MA

On-Call Engineering and Construction Administration Services

Gale is currently in year eight of a Term Contract to provide planning, engineering, and construction administrative services for this 126-acre mixed-use community. Village Hill combines residential living with commercial, retail, and light industrial uses. This planned development also features open space parks and a network of walking and biking trails. The incorporation of historical buildings and old growth vegetation is integral in the project's Low Impact Design efforts. Full build-out will include approximately 476,000 square feet of retail, commercial and industrial development, as well as 350-residential homes and rental units. Recent projects include:

Gale's Services

- Rail Trail Improvements – design and permitting improvements of a portion of Northampton's walking and bike path system for Village Hill
- Watershed analysis and stormwater management design and permitting
- Embankment Restoration – the stabilization of a slope with grade changes of approximately 70 feet, to allow the development of 10 residential units
- Ford Crossing, Village Hill Road and Olander Drive – design and permitting for the extension of three on-site roadways at Village Hill
- Hazardous Materials – administration of the removal and subsequent testing of potential hazardous materials at Village Hill
- Master Planning – feasibility, analysis and cost estimating of MassDevelopment's current Master Plan and various development alternative at Village Hill


Water Main Utility Extension Along Evolution Drive

Town of Bow, Bow, NH

On-Call Town Engineer

The Town of Bow has retained Gale to provide on-call civil engineering consulting services on municipal infrastructure projects.

Gale's Services

- Rail Trail Improvements – design and permitting improvements of a portion of Northampton's walking and bike path system for Village Hill
- Watershed analysis and stormwater management design and permitting
- Assists the Community Development Director with the following services:
  - Provides technical review of applications submitted to the Planning Board, including Zoning Ordinance, Development (site/subdivision) Regulations, Stormwater Analysis, Traffic Analysis, and engineering practices
  - Attends Planning Board hearings, as requested
  - Prepares and administers construction / erosion control surety
  - Provides construction observation services, project punch list and development closeout, including opinion of Town accepting ownership
- Assists the Public works Director with the following services:
  - Evaluation, design, permitting, public hearing, bidding, construction observation of repairs and/or expansions of existing potable water, stormwater drainage, roadway infrastructure, and public parks


Relocated and Extended Runway 14-32

Nashua Airport, Nashua, NH

Runway Relocation and Extension

Challenges

- Prepared a feasibility study to demonstrate:
  - New runway should be lengthened from 5,500 to 6,000 feet
  - New runway should be moved 300 feet to the north to allow the old runway to remain operational during construction
- Assisted the Airport in obtaining easements from 11 properties for obstruction removal
- Prepared several complex construction phasing plans to keep the existing runway open during construction
- Assisted in the management of an airport website and other media to keep the community up to date on all aspects of the project
- Designed, bid, and constructed a new runway with runway safety areas, three new stub taxiways, a new ILS system including MIRLS, markings, lighting, signs, and subsurface infiltration stormwater management systems in accordance with FAA standards
- Completed the largest FAA-funded General Aviation project of its time

Gale's Solutions

- Prepared a feasibility study to demonstrate:
- New runway should be lengthened from 5,500 to 6,000 feet
- New runway should be moved 300 feet to the north to allow the old runway to remain operational during construction
- Assisted the Airport in obtaining easements from 11 properties for obstruction removal
- Prepared several complex construction phasing plans to keep the existing runway open during construction
- Assisted in the management of an airport website and other media to keep the community up to date on all aspects of the project
- Designed, bid, and constructed a new runway with runway safety areas, three new stub taxiways, a new ILS system including MIRLS, markings, lighting, signs, and subsurface infiltration stormwater management systems in accordance with FAA standards
- Completed the largest FAA-funded General Aviation project of its time


Winter Observations for Old Mill Farm Subdivision

Town of Hillsborough, Hillsborough, NH

On-Call Town Engineer

The Town of Hillsborough has retained Gale to provide support with civil engineering consulting for maintenance and expanding municipal infrastructure projects.

Gale's Services

- Assists the Town Planner with technical review of applications; attends Planning Board hearings; prepares and administers construction/erosion control surety; provides construction observation services, project punch list, and development closeout; and authors the Town's updated site and subdivision regulations
- Provides on-call technical support to various Town Departments


Tower Apron Reconstruction

Nashua Airport, Nashua, NH

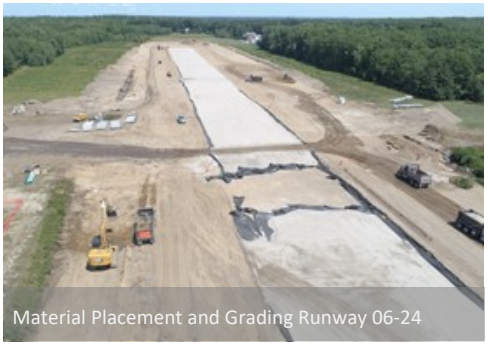
Tower Apron Reconstruction

Challenges

- Tower apron pavement is over 30 years old
- Many aircraft use the apron to access other portions of the airfield
- Project is funded under the American Recovery and Reinvestment Act of 2019 and is on an accelerated schedule for design and construction
- India Ramp requires apron electric outlets for winter use
- Existing electrical vault is near capacity

Gale's Services

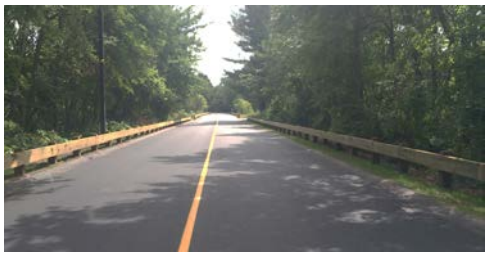
- Design, permit and bid the apron reconstruction in 3 months to meet the ARRA deadline for "shovel ready projects."
- Recycle existing materials for use in new pavement structure
- Replace apron drainage infrastructure
- Install new apron electrified outlets for a select number of tie-downs
- Construct a temporary taxiway and phase construction to optimize access ways for aircraft throughout the project
- Project completed on-time and within budget


Material Placement and Grading Runway 06-24

Biddeford Municipal Airport, Biddeford, ME

Airport Planning and Engineering Services

- Annual Airport CIP Planning
  Design, Permitting, and Construction Phase services for Runway
- Improvements including:
  - Runway Reconstruction (last maintained in 1992 with an overlay) included: full-depth reconstruction, PAPI, REILS, stormwater management, wetland mitigation, pavement sealing, marking and signs, Runway Safety Area improvements
  - Vegetation Obstruction Removal on previously acquired avigation easements in the Runway 24 approach surface
  - Reimbursable Agreement for the design of Precision Approach Path Indicator (PAPI)
- Prepared Environmental Assessment for potential wetland impacts related to extension of Runway Safety Area and obstruction removal
- Airport Master Plan and Airport Layout Plan update
- Negotiated and acquired avigation easements over 10 privately owned parcels in the Runway 24 approach surface for future vegetative obstruction removal
- Negotiated fee acquisition of 42 acres of privately owned land to remove obstructions from Runway Approach and Runway Protection Zone
- Removed obstructions to the Runway 06 approach surface, including tree clearing and stump grinding
- Installed 1,500 LF of 8' high chain link fence, 2 motorized slide gates, electrical duct, 1 pedestrian gate, and fence signage



Reconstruction of Entrance Roads

Minuteman Regional Vocational Technical High School, Lexington, MA

Multiple Projects / Term Contract

Gale was engaged by the Minuteman Regional Vocational Technical School (MVTRS) to conduct a detailed site evaluation of various features on campus, specifically relating to site access roads, parking lots, sidewalks, pedestrian access and overall aesthetics. Subsequently, Gale provided MVRTS with design and construction period services for the roadway and plaza improvements, as well as design services for the newly proposed softball field.

Gale's Services

- At the request of MVTRS, Gale performed a needs assessment report that included the identification of site constraints and existing conditions, a visual observation and evaluations, conceptual improvements, and associated cost estimates
- The School acknowledged the poor conditions of numerous features on site and requested Gale to address the issues and provide an accessible, serviceable, functional, and aesthetically pleasing campus
- Work included the installation of bituminous asphalt, roadway striping, reconstructed ADA parking, pedestrian access, sidewalks, landscaping, and various other improvements
- Contract includes a site investigation, design, permitting, bidding, and construction period services
- Proposed softball field improvements to include a reconstructed natural grass field, an irrigation system, ADA site access, utility work and other various improvements
- Provided schematic level plans, permitting requirements, phasing recommendations, and cost estimates for the required renovation and expansion of the athletic and passive recreation facilities inventory
- Offered specific program enhancement, maintenance management recommendations, and specific funding strategies
- Included in the master plan was a robust study on the extensive trail network in the Towns of Hamilton and Wenham

Medway High School Athletic Facilities

Town of Medway, Medway, MA

Medway High School Athletic Facilities Improvements Project

- Synthetic turf replacement with new concrete anchor curb and track resurfacing at Hanlon Field
- Multi-purpose lighted synthetic turf field, with corner softball diamond, replacing existing natural grass field
- Multi-purpose lighted synthetic turf field with coaches/player bump-out in previously undeveloped wooded lot
- New 60-space parking lot along with new traffic control signage around high school access road
- Recreational walkway trail to tie into existing Medway trail network
- Landscape enhancements with covered pavilion

Gale's Services

- Existing conditions assessment (survey, wetlands flagging, soils exploration, etc.)
- Provided schematic planning and presented various alternatives for reconstruction
- Provided detailed design development to include grading, drainage, site utilities, etc.
- Permitting through the Medway Planning Board and Conservation Commission with third party review
- Massachusetts public bid services and bid review/recommendation
- Construction period services included weekly construction meetings and 30-hours of onsite observation

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