Qualifications

Preliminary and Final Design Services for the Hillside Avenue Bridge over the Mamaroneck River Replacement, Mamaroneck, NY, PIN 8761.55

Submitted to:

Village of Mamaroneck

April 28, 2017

Submitted by:
HVEA Engineers

560 Route 52, Suite 201,
Beacon, NY 12508
(845) 838-3600

702 Chestnut Ridge Road,
Chestnut Ridge, NY 10977
(845) 414-9300

www.hveapc.com

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HVEA ENGINEERS

April 28, 2017

Mr. Daniel J. Sarnoff
Assistant Village Manager
Village of Mamaroneck
Village Hall at-the-Regatta
123 Mamaroneck Avenue
Mamaroneck, NY 10543

Re: Preliminary and Final Design Services for the Hillside Avenue Bridge over the Mamaroneck River Replacement, Village of Mamaroneck, Westchester County, PIN 8761.55

Dear Mr. Sarnoff:

HVEA Engineers is pleased to submit our qualifications for the above referenced project. We have included six (6) copies and one (1) CD of our expression of interest as per the RFQ requirements.

HVEA can offer a firm with applicable experience having recently completed the design for the replacement of the Mud Tavern Road Bridge over Dwaar Kill, which possessed challenges similar to the Hillside Avenue Bridge. In addition, HVEA oversaw the construction of 8 Westchester and Orange County bridges on the NYSDOT Critical Bridges over Water Design-Build project. These projects have given HVEA a unique insight into both the Client's and Contractor's needs for structures spanning waterways.

HVEA has worked closely with numerous towns and villages on both design and construction inspection projects since the firm's inception in 2002. Municipal projects are at the forefront of our business and HVEA focuses 100% of our attention on our municipal clients and their projects.

We appreciate this opportunity to submit our qualifications. Should you need any additional information, please do not hesitate to contact me.

Sincerely,

Mia K. Nadasky, P.E.
Principal

Enclosures (7)

SECTION 1:

EXPRESSION OF INTEREST

SECTION 1: Expression of Interest

Introduction

HVEA Engineers, PC is pleased to state our interest in performing the preliminary engineering, detailed design services, and construction support and inspection services for the Replacement of the Hillside Avenue Bridge over the Mamaroneck River; a BRIDGE-NY funded project.

HVEA has unique qualifications and experience that gives our firm exceptional capability to perform this work. We have completed over 40 LAFA projects since our firm's inception in 2002 and in 2016 alone, progressed 7 projects to letting. Our current workload includes several additional projects in different stages of p roject development.

Hillside Avenue Bridge over the Mamaroneck River

HVEA is also currently providing quality assurance and quality control (QA/QC) services on the NYSDOT's Westchester and Orange County Critical Bridges over Water Design-Build Projects. During this past construction season, our firm oversaw the construction of eight (8) bridges over water and performed hydraulic analyses for an additional five (5) bridges. This has given us significant applicable design and constructability experience.

HVEA has the capacity to easily add this project to our workload and in fact, can offer the Village of Mamaroneck, Town of Mamaroneck and the Town of Rye:

- A firm with detailed understanding of the project issues including the both the hydraulic and utility concerns
- A firm with extensive experience progressing locally administered federal aid assignments
- Recent experience working on bridges throughout Westchester County

HVEA's qualifications are underscored by the unique combination of our successful, recent experience on similar local Federal Aid projects, the quality of the staff we are proposing for this work, our familiarity with Federal and State requirements, our organization and financial responsibility, and our unique familiarity with structures spanning waterways. This distinctive blend of credentials makes our firm distinctively qualified to complete this assignment.

Familiarity with Federal & State Requirements

This project is funded under the State's BRIDGE-NY program and will be progressed under the oversight review of the NYSDOT Local Project Unit out of the Region 8 offices in Poughkeepsie. Since the firm's inception in 2002, HVEA has successfully completed over 40 Locally Administered projects and several NYSDOT administered projects, all through the Region 8 office in Poughkeepsie. We have established strong relationships with the key players at the DOT which will be an added benefit for progressing this fast-tracked project.

The table below represents culvert and bridge projects completed under the Locally Administered Federal Aid process. In addition, we have selected 5 current and past projects in Section 2 of this submission to detail our recent project experience. Additional project experience can be accessed via our web site at www.hveapc.com.

Project Name	Design Completion	Construction Completion	Locally Administered Federal Aid	Bridge Replacement/Rehabilitation	Culvert Design	Retaining Walls	Hydraulic/Hydrologic Analysis	Scour	Railroad Coordination	Historic/SHPO	Roadway Design	Roadway Realignment	Traffic Studies & Analysis	Pedestrian Safety	Signage & Pavement Markings	Bicycle Enhancements/Rail Trail	Public Involvement/Outreach	Environmental Permitting/SWPPP	ROW Acquisition	Drainage Design	Utility Relocations	Endangered Species Study	Construction Inspection
Lake Drive over Quassaick Creek Bridge Replacement; PIN 8761.39 City of Newburgh	TBD	TBD	●	●	●		●	●								●	●	●	●			●	
Jackson Avenue Rehabilitation; PIN 8757.51 Town of New Windsor	2016	2017	●		●	●	●	●				●			●		●	●		●		●	●
Taylor Road Bridge Replacement over Woodbury Creek; PIN 8759.22 Orange County DPW	2015	2016	●	●		●	●	●			●						●	●	●	●	●	●	●
Mud Tavern Road Bridge over Dwaar Kill; PIN 8756.66 Ulster County DPW	2008	2015	●	●			●				●	●					●	●	●		●	●	●
Putnam Bikeway Stages 2, 3 & 4 PINS 8757.83 & 8759.05 Putnam County DPW	2012	2015	●	●	●	●			●		●			●		●		●	●	●			●
D70R, County Route 26 Bridge over MNRR; PIN 8756.01 Dutchess County DPW	2013	2013	●	●		●			●	●	●	●					●		●		●		●
Analysis of 3 Railroad Bridges on the Dutchess Rail Trail - Stage 5 Dutchess County DPW	2012	2013		●										●		●				●			●
County Road 106 (Kanawauke Rd) Rehabilitation; PIN 8757.02 Orange County DPW	2009	2013	●		●	●					●	●			●			●		●		●	●
Lexington Avenue Bridge over Branch Brook Westchester County DPW	2005	2006		●	●		●					●	●							●			
Lime Kiln Road over Ten Mile River Bridge; PIN 8757.25 Dutchess County DPW	N/A	2010	●	●																			●
Academy Hill Road Bridge Replacement; PIN 8754.01 Dutchess County DPW	N/A	2007	●	●																			●
Jameson Hill Road Bridge over Wappinger Creek; PIN 8754.01 Dutchess County DPW	N/A	2006	●	●								●											●
Salt Point Turnpike Bridge over Wappinger Creek Bridge; PIN 875.82 Dutchess County DPW	N/A	2005	●	●																			●

SECTION 2:

EXPERIENCE WITH SIMILAR PROJECTS

HVEA ENGINEERS

TAYLOR ROAD BRIDGE REPLACEMENT-TAYLOR ROAD BRIDGE OVER THE WOODBURY CREEK
TOWN OF CORNWALL, ORANGE COUNTY, NY

LOCALLY ADMINISTERED FEDERAL AID PROJECT (PIN 8759.22)

Before

After

Owner:
Orange County Department of Public Works

Client:
Orange County Department of Public Works

Contact:
Ronald Meyer
Orange County DPW
Principal Engineer
(845) 291-2768

Completion Dates:
2012/Preliminary Design
2015/Detailed Design
2016/Construction

Construction Cost:
$2 Million

Role:
Prime

Project Description:
HVEA designed the replacement of the Taylor Road jack-arch bridge with a 48 foot, pre-cast concrete arch in the Town of Cornwall. Due to very tight site conditions and the hydraulically critical Woodbury Creek, special care was needed in the design of the replacement. Since the soil conditions were unfavorable for pile and/or sheet pile driving, it was necessary to utilize Sta-Pod units for scour protection.

HVEA designed cast-in-place retaining walls that were adjacent to the bridge structure. This included designing the wall and detailing the rebar in accordance with the AASHTO Bridge Manual for the applied soil pressures and highway loading acting on the wall.

This project was funded with federal funds and was progressed under the oversight review of the NYSDOT Region 8 Local Projects Group. This project included:

- Replacement of the existing bridge
- Roadway drainage
- Right-of-way acquisition
- Scour protection
- Utility relocation
- Hydraulic analysis
- Erosion Control Plan
- Resident engineering and construction inspection services
- HVEA oversaw the construction

MUD TAVERN ROAD OVER DWAAR KILL
TOWN OF SHAWANGUNK, NY

LOCALLY ADMINISTERED FEDERAL AID PROJECT (PIN 8756.66)

Owner:
Ulster County Department of Public Works

Client:
Ulster County Department of Public Works

Contact:
Ed Pine, P.E.
Senior Engineer
(845) 340-3100

Completion Dates:
2008/Design
2015/Construction

Construction Cost:
$0.86 Million

Role:
Prime

Project Description:
HVEA designed and oversaw the construction of this project that replaced a jack arch bridge in the Town of Shawangunk. As a federal aid local project, the project was subject to the rigorous oversight requirements mandated by the NYSDOT Local Projects Unit.

In order to simplify construction, the new bridge was designed and constructed behind the existing abutments. The existing abutments were left in place to act as cofferdams during construction and as permanent scour protection. An integral abutment was designed to minimize excavation and concrete. This design proved both economical and simple to construct.

This project was completed on time and under budget.

This project included:

- Raised profile with new horizontal alignment
- Prestressed concrete superstructure with integral abutments
- Endangered species study
- ROW takings
- Utility relocation
- Construction inspection services

QUALITY CONTROL SERVICES FOR THE REGION 8 BUNDLED BRIDGES (CONTRACT 3), D900025

Westchester & Orange Counties, NY

NYSDOT DESIGN-BUILD PROJECT

Owner:
New York State Department of Transportation

Client:
ECCO III Enterprises

Contact:
Joseph O'Malley
NYSDOT
(845) 431-5000

Completion Date:
2017/Construction

Construction Cost:
$27 Million

Role:
Subconsultant

Project Description:
The Region 8 Bundled Bridges Project is part of the scour critical/flood prone bridge program, an initiative developed to strengthen New York State's at-risk bridges to withstand the increasing frequency of severe weather events and storms.

This Design-Build project entails four (4) bridge replacements in Westchester County, one (1) bridge rehabilitation in Westchester County, and a superstructure replacement in Orange County. These projects include:

- Route 208 over Moodna Creek, Village of Washingtonville
- Route 9 over Dickey Brook, Town of Cortlandt
- Saw Mill River Pkwy over Saw Mill, Village of Pleasantville
- Saw Mill River Pkwy over Saw Mill River, Village of Pleasantville
- Saw Mill River Pkwy over Kisco Avenue, Town of Mt. Kisco
- DH PA DPW Road over Hutchinson River, City of New Rochelle

HVEA is providing 24/7 construction oversight including the Resident Engineer, Office Engineer, Chief Inspector and up to 10 Inspectors for both day and night work. Work includes bridge replacements, extensive MPT on high-volume roadways, noise wall construction, closed drainage installation and work with the watershed. Our in-house testing lab provides essential seamless coordination with on site personnel and offers an unparalleled proficiency in the field of concrete and materials.

LAKE DRIVE OVER QUASSAICK CREEK BRIDGE REPLACEMENT
CITY OF NEWBURGH, NY

LOCALLY ADMINISTERED FEDERAL AID PROJECT (PIN 8761.39)

Owner:
City of Newburgh

Client:
City of Newburgh

Contact:
Jason Morris, P.E.
City of Newburgh
City Engineer
(845) 569-7448

Completion Dates:
2017/Design
2018/Construction

Construction Cost:
$1.8 Million

Role:
Prime

Project Description:
HVEA was selected to perform design services for the replacement of the existing twin metal arch culvert bridge over the Quassaick Creek with a single span bridge. The existing structure exhibited an inefficient hydraulic opening which contributed to the flooding issues experienced in this area. In addition, scour protection is also key as the creek flow can often increase rapidly during storm events. HVEA has designed several scour protection techniques including permanent steel sheeting, heavy stone fill and the use of concrete "Sta-Pods". The soil conditions will determine the best scour choice for this location.

This project is funded with federal funds and is being progressed under the oversight review of the NYSDOT Region 8 Local Projects Group.

This project includes:

- Replacement of the existing twin metal arch culvert bridge
- Hydraulic analysis
- Scour Protection
- Roadway drainage
- Erosion Control Plan
- Right-of-Way Acquisition

PUTNAM BIKEWAY OVER METRO-NORTH RAILROAD, STAGE 4
Putnam County, NY

LOCALLY ADMINISTERED FEDERAL AID PROJECT (PIN 8759.05)

Owner:
Putnam County Department of Planning/Development

Client:
Putnam County Department of Planning/Development

Contact:
John Pilner, Project Coordinator
(845) 878-3480, ext. 108

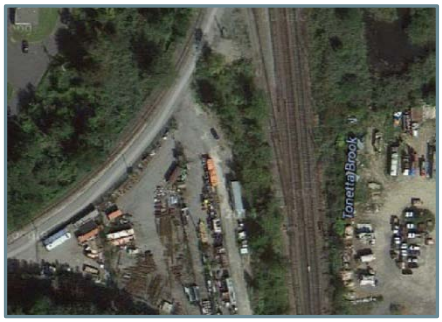
Completion Date:
2009 - 2012/Design
2015/Construction

Role:
Prime

Construction Cost:
$5.6 Million

Project Highlights:
- Coordination with NYCDEP
- Provided design and CI services
- 0.9 miles of shared use path
- DEP Watershed
- SWPPP
- Closed drainage system
- Design of a 500' multi-span bridge
- Drilled shaft pier bents
- Federally funded, NEPA coordination
- Retaining walls

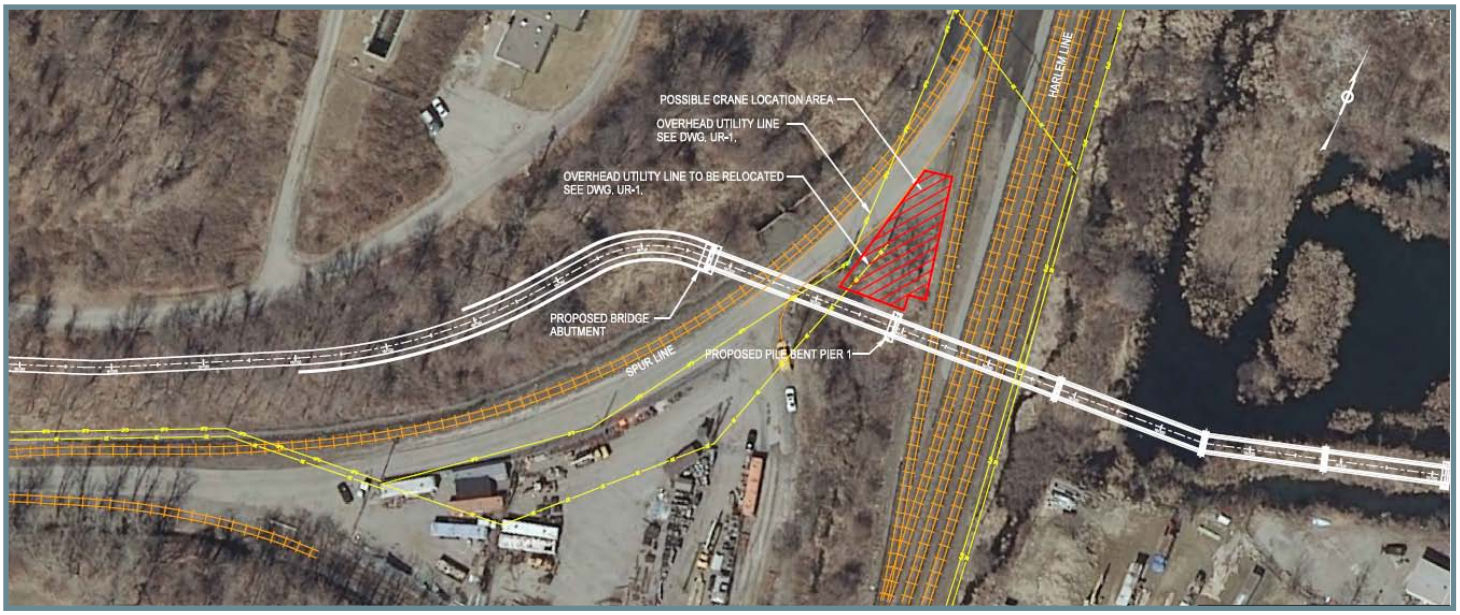
Project Description:
HVEA designed this project that constructed a shared used path in the Town of Southeast, Putnam County. This project included one of the most difficult segments of the trail network as it crosses 4 tracks of the MNRR Harlem Line at the Brewster Rail Yard. It is part of the Comprehensive Plan for connecting New York City with Northern Dutchess County through a series of shared use paths. This portion of the SUP serves as a link between Westchester County's North County Trailway and the planned Maybrook Bikeway.



HVEA designed a 500' multi-span bridge that spans Metro-North's Brewster Rail Yard, a maintenance road, and a siding track. The bridge will be founded on drilled shaft pier bents and MSE wall supported concrete stub abutments. Due to the required bridge clearance over the railroad, the bike path bridge approaches were required to be ramped up. This resulted in the need for extensive prefabricated retaining walls in order to stay within the ROW and to reduce the environmental impacts. This wall design included determining the wall layout/geometry that would meet the project requirements and provide details to allow for a contractor to select an economical wall system for this project. HVEA also provided construction support for this project and reviewed all of the retaining wall shop drawings to ensure compliance with the project requirements.

PUTNAM BIKEWAY OVER METRO-NORTH RAILROAD, STAGE 4
Putnam County, NY

LOCALLY ADMINISTERED FEDERAL AID PROJECT (PIN 8759.05)



All of the construction is in the NYCDEP watershed. HVEA prepared a Stormwater Pollution Prevention Plan (SWPPP) and coordinated with the DEP to secure their approval. The project is funded with federal fund through the Federal Transportation Administration; FTA is functioning as lead agency for NEPA. HVEA also provided construction inspection services for this project and was responsible for the construction oversight including MPT implementation, contractor coordination and project recordkeeping and documentation.

SECTION 3:

QUALITY OF STAFF

SECTION 3: Quality of the Proposed Key Staff

Introduction:

The staff proposed by HVEA for the Replacement of the Hillside Avenue Bridge over the Mamaroneck River are available to work on this bridge replacement project. Our staff has worked closely with numerous counties, towns and villages throughout the Hudson Valley on both design and construction inspection projects since the firm's inception in 2002. HVEA is a local firm and understands the issues relevant to our community. Municipal projects are at the forefront of our business and HVEA focuses 100% of our attention on our municipal clients and their projects.

Key Personnel:

Guided by the firm's principals, HVEA routinely exceeds our client's expectations. Our design staff is strategically organized into project design teams - similar to the NYSDOT regional system. These teams are led by the Project Manager who will insure all project financial, engineering, and coordination work is identified and assigned to staff engineers who are qualified to progress the project through the design and approval processes and through construction.

In 2016 alone, HVEA progressed 7 Locally Administered Federal Aid projects to letting, enabling our staff to be available for additional assignments. In addition, all proposed personnel are available for the duration of this project.

For this project, leading HVEA's design efforts will be Mia K. Nadasky, P.E., Jack Gorton, P.E., John Balison, P.E. Jason Watzka, P.E., Jared Anderson, P.E., Brendan Fitzgerald, P.E., and Jason Smith, E.I.T., CPESC, who all have recent experience with similar project work.

Mia K. Nadasky, P.E. - Principal-in-Charge: Mia is a former NYSDOT Engineer and a founding member of the NYSDOT Local Projects Unit. She will assist our proposed Project Manager, Jack Gorton, P.E., as-needed, with project management and serve as a liaison with local officials in order to keep Village officials informed on project progress.

Jack Gorton, P.E. - Project Manager: Jack has extensive experience in transportation design and construction support involving bridge, highway and pedestrian access projects. He will be leading all design efforts, preparing and presenting reports, and organizing and facilitating public meetings. He will also coordinate all project work by assigning qualified project staff to ensure schedule, budget, and project deliverables remain on track. His projects have involved all aspects of design from conception, scoping, analysis, environmental coordination and securing NYSDOT/FHWA design approval, to the preparation of final plans, specifications and estimate. Jack has managed the design work on several bridge projects including the recently completed Taylor Road Bridge Replacement.

John Balison, P.E. will be the Project/Quality Manager for the project and will complete detailed reviews and have final signoff on all structural design. John is a former NYSDOT bridge design engineer and a founding partner of HVEA. He is currently providing the Project Quality Management for a NYSDOT Design Build job to replace 6 bridges in Westchester and Orange Counties in NYSDOT Region 8. His expertise extends from bridge design to construction support and construction troubleshooting and problem resolution. John's experience as a former squad leader in the NYSDOT Region 8 Structures Group is a valuable asset to HVEA's structures group; Prior to his work on local system projects, he was the designer of record on 13 State and Interstate bridge projects dating to 1991. Additionally, as the former NYSDOT Bridge Design Liaison to the Construction Group in Region 8, he provided design support, troubleshooting, and shop drawing review on over 40 on-going bridge projects.

Jason Watzka, P.E. - Lead Structural Design Engineer: Jason is a talented HVEA structural engineer who works on bridges and retaining walls and structures on all our projects from trailways to interstates. He has extensive design experience, completing several bridge rehabilitation and replacement designs throughout the Hudson Valley. Jason designed the Mud Tavern Road over Dwaar Kill bridge replacement, three bridge retrofit/rehabilitations on the Dutchess Rail Trail, Dover Furnace Road over Metro-North Railroad bridge replacement, Taylor Road Bridge over Woodbury Creek bridge replacement, Tappan Zee Hudson River crossing Shared Use Path (SUP) bridge and is currently working on the retrofit/rehabilitation of former rail bridges on the Orange County Heritage Trail.

Jared Anderson, P.E. - Lead Highway & Utility Coordination: Jared has in-depth experience working on numerous projects for various municipalities throughout Westchester County. He was also a Project Engineer on a NYSDOT RDSA Assignment for Critical Bridges over Water, which involved the detailed hydraulic analysis of 10 structurally deficient and obsolete structures. Additional experience includes:

- Ashford Avenue Bridge Rehabilitation over I-87 & Saw Mill River Parkway, Ardsley, NY
- Rehabilitation of the Croton Falls Bridge over the Croton River, North Salem, NY
- Replacement of the Maple Avenue Bridge over the Wallkill River, Goshen, NY

His area of expertise includes the development and evaluation of highway geometry alternatives for various types of highway projects and assessing right-of-way impacts and applying the latest agency standards. In addition, Jared has experience in other critical project phases, such as right of way assessments, utility coordination, environmental assessment, public involvement, and construction support.

Brendan Fitzgerald, P.E. - Lead Environmental: Also a founding partner of HVEA, Brendan will complete the permitting applications, coordinate review design meetings and processing for any US Army Corps of Engineers and NYSDEC permits. He will work with agency officials to mitigate adverse impacts. Brendan is an expert in the mechanics of erosion, erosion control, and the Phase II SPDES regulations. He served as an Erosion Control Design Specialist for the NYSDOT's Taconic Parkway Reconstruction in the DEP Watershed in Westchester County and for a new single point interchange on I-87 near Albany.

Team
Prime: HVEA Engineers
Subconsultant: R.K. Hite & Co., Inc. RK
Subconsultant: TEC Land Surveying TEC

VILLAGE OF MAMARONECK

Resumes for key personnel included in this submission highlighted in Blue

All Proposed Personnel are available for the duration of this project.

Project Quality Manager
John Balison, P.E.

Project Manager
Jack Gorton, P.E.

Principal-In-Charge/QA
Mia Nadasky, P.E.

Highway Design & Utility Coordination
Jared Anderson, P.E.
Lead Highway/Utility Engineer
David Ellis, PTP, TSOS
MPT & Traffic Analysis
Daniel Pawlak, E.I.T.
Staff Engineer

Bridge Design
Jason Watzka, P.E.
Lead Structural Engineer
Gillian Walker, P.E.
Structural Engineer
Steve Sherwood, E.I.T.
Scour Protection

Environmental Permitting/Hydraulics & SHPO Coordination
Brendan Fitzgerald, P.E., CPESC, CPSWQ
Lead Environmental
Jason Smith, E.I.T., CPESC
Hydraulics/Stream Analysis/Stormwater
Lora Rinaldi, E.I.T.
SHPO Coordination/Staff Engineer

Right-of-Way Services
Richard K. Hite RK
ROW Acquisition Services
James Deloria RK
Property Rights Specialist

Survey Services
Thomas Cerchiara, L.L.S. TEC
Land Surveyor & President
Brendan Johnson, L.L.S. TEC
Land Surveyor

HVEA ENGINEERS

PROJECT WORKLOAD OF KEY PERSONNEL (JUNE 2017 - AUGUST 2018)

Key Personnel	Current Project Workload	Projected Project Workload	Projected Availability
Jack Gorton, P.E. Project Engineer	Lake Drive Bridge Replacement- *Project Engineer* -15% Orange County Heritage Trail Extension - *Project Engineer*- 15% Hudson Valley Rail Trail – *Project Engineer*- 15% North Middletown Road Pedestrian Improvements - *Project Engineer- 10%*	Lake Drive Bridge Replacement- *Project Engineer - 10%* Orange County Heritage Trail Extension - *Project Engineer*- 10% South Putt Corners Rd. Rehabilitation - *Project Engineer*- 10% Hudson Valley Rail Trail – *Project Engineer* - 10%	60%
John Balison, P.E. Project Quality Manager	Lake Dr Bridge Replacement - *Quality Manager – 10%* North Middletown Road Pedestrian Improvements – *Quality Manager* – 10% South Putt Corners Rd. Rehab - *Quality Manager* - 10%	Lake Drive Bridge Replacement – 10% NYS Route 211 Pedestrian Improvements - *Quality Manager - 10%* South Putt Corners Rd. Rehab - *Quality Manager* - 10%	70%
Jason Watzka, P.E. Project Engineer, Structures	Lake Drive Bridge Replacement – *Project Engineer* - 15% Orange County Heritage Trail Extension - *Project Engineer* - 15% South Putt Corners Rd. Rehab - *Project Engineer* - 25% NYS Route 211 Pedestrian and Landscape Improvements - *Project Engineer - 10%*	Lake Drive Bridge Replacement – *Project Engineer* - 20% Orange County Heritage Trail Extension - *Project Engineer* - 10% South Putt Corners Rd. Rehabilitation - *Project Engineer* - 15%	55%
Jared Anderson, P.E. Project Engineer, Highways	Orange County Heritage Trail Extension - *Project Engineer*– 25% North Middletown Road Pedestrian Link - *Project Engineer - 25%*	Orange County Heritage Trail Extension - *Project Engineer* – 15%	85%
Brendan Fitzgerald, P.E. Lead Environmental	Lake Drive Bridge Replacement – *Project Engineer - 5%* NYS Route 82 & Fishkill Road - *Project Manager*- 15% Deign-Build 7 Orange County Bridges - Quality Control Engineer - *65%*	Lake Drive Bridge Replacement – *Project Engineer* - 15% NYS Route 82 & Fishkill Road - *Project Manager*- 15% Deign-Build 7 Orange County Bridges - Quality Control Engineer - *10%*	60%

MIA K. NADASKY, P.E.

PRINCIPAL-IN-CHARGE/QUALITY ASSURANCE

Professional Qualifications:
P.E., New York, 1996, #073656

Education:
B.S. Civil Engineering, Duke University, 1989

M.S. Business Administration, Boston University, 1992

Training Certifications:
NYSDOT Design Procedure Manual, Phases I-IV, NYSDOT, Region 8

Work Zone Traffic Control, National Highway Institute

Site Manager® Training NYSDOT Region 9

Total Years of Experience:
24

Years with HVEA:
16

SUMMARY:

Ms. Nadasky has extensive experience with management, engineering environmental reviews, and public participation on transportation projects, and with FHWA and NYSDOT funding as a result of her experience working for the NYSDOT's Region 8 Local Projects Unit as regional liaison to municipal officials. Ms. Nadasky combines her understanding of the ***Federal-Aid Design Process*** with her extensive experience as a project designer to routinely develop cost-effective projects. Project costs range from $0.5M to $12M.

PROJECT EXPERIENCE:

Quality Control/Project Manager - Region 8 Design/Build Bundled Bridges, Westchester & Orange Counties, NYSDOT, Region 8 (2015 - Present)
Project Manager for this design build project for the replacement of 7 bridges in Westchester and Orange counties; duties include providing staffing and management of construction inspection/quality control services for the design build contractor. Ms. Nadasky assisted the Contractor in writing the quality control plan for this project.

Principal-In-Charge - Taylor Road Bridge Replacement, PIN 8759.22, Town of Cornwall, Orange County, NY, $1.5M (2011 - 2016)
Ms. Nadasky was the Principal-in-Charge of the replacement design for the Taylor Road bridge over the Woodbury Creek. Work included the design of a precast arch system, abutments, scour protection, removal of existing structure, drainage system corrections, erosion control plan and detour, documentation for NEPA concurrence by NYSDOT, the determination of project design criteria, analysis of existing structure and drainage system, and the preparation of project plans in accordance with NYSDOT specifications. ***Locally Administered Federal Aid Project.***

Principal-In-Charge - Mud Tavern Road over Dwaar Kill, PIN 8756.66, Town of Shawangunk, Ulster County, NY, $1.4M (2009 - 2012)
Ms. Nadasky was the Principal-In-Charge for this project to design an integral abutment, prestressed concrete bridge replacement. The project included preliminary design, environmental studies, ROW takings from adjacent parcels, public informational meetings, NYSDOT design report and FHWA NEPA concurrence, final plans and estimate. ***Locally Administered Federal Aid Project.***

Principal in Charge/Assistant Project Manager - PIN 8759.11, Spring Road Rehabilitation, Town of Poughkeepsie, Dutchess County, $3M (Sept 2011 - 2015)
Ms. Nadasky was the Principal in Charge and Assistant Project Manager for the design and construction inspection services for this 1.2 mile FHWA funded roadway rehabilitation. The project included the evaluation of horizontal and vertical curves, widening, guide rail, correction of cross slope and superelevation, utility relocations and signage, the preparation of

design approval documentation for NEPA concurrence by NYSDOT, public presentations, and the preparation of project plans.

Principal-In-Charge - Forshay Road Reconstruction, PIN 8756.88, Village of Ramapo, Rockland County, NY, $9M (2007 - 2014)
Ms. Nadasky served as Principal-In-Charge for this $9M project to provide the reconstruction design and construction inspection of 2.0 miles of this heavily traveled roadway linking Rockland Community College and the Village of Wesley Hills. The work included complete pavement reconstruction, establishment of consistent lane widths, sidewalk and buffer design; horizontal and vertical realignment; replacement of a closed drainage system, 2 new culverts, MSE Walls, 2 signalized intersections, and a modern roundabout. The project required ROW takings from 15 parcels, multiple public meetings, and individual meetings with 22 property owners.

Principal-In-Charge/LAFA & DBE Compliance Specialist - Rehabilitation of CR 106 (Kanawauke Road), Town of Tuxedo, Orange County DPW (2013)
This was a federal aid project to rehabilitate 4 miles of CR106 in Tuxedo. The $3M design and construction inspection project included for the asphalt milling and paving, 3 large culvert rehabilitations, 4 GRES walls, and new guide rail. Ms Nadasky led the community participation plan for this project. This was Orange County's first experience with EBO. Ms. Nadasky provided EBO instruction to the County and coordinated with the contractor to assure that the DBE and EEO goals were met.

Principal-In-Charge/LAFA & DBE Compliance Specialist - Kinderhook Sidewalks, Village of Kinderhook (2012 - 2013)
This was a federal aid local project that HVEA provided design and construction inspection services to construct sidewalks along Route 9, connecting existing networks in the Villages of Valatie and Kinderhook - work included drainage, bicycle enhancements, pedestrian crossings, and shoulder widening on Route 9. Ms. Nadasky coordinated the community participation plan, coordinated with the contractor to assure that the DBE goals were met and she advised the client on EBO operations.

Principal-In-Charge - TANY 06-51, Reconstruction of I-87/I-84 Interchange 17, Contract III, Newburgh, NY, NYSTA, $72M (2009 - 2010)
Ms. Nadasky was the responsible for the HVEA personnel specifically responsible for oversight of erosion control systems, construction of new wetland system and environmental controls on this $72M project including the construction of six new bridges carrying new thruway and interstate ramps over mainline traffic for the realignment/reconstruction of I87/I84 - Interchange 17 & the Newburgh Toll Barrier in Orange County. She was responsible for the review and approval of the Contractor's operations, environmental compliance, and site procedural coordination with NYSDOT and NYSDEC.

Liaison to Local Officials - Local Projects Unit, NYSDOT, Poughkeepsie, NY (1998 - 2001)
Ms. Nadasky served as NYSDOT regional liaison for municipal officials on locally administered federal aid projects. In this capacity, she served on the Transportation Improvement Program committee as a NYSDOT representative for project planning, selection, and funding through the region's Metropolitan Planning Organization transportation councils and transportation planning committees. She completed the oversight review on project design reports to insure compliance with NEPA and SEQRA and federal-aid right of way acquisition requirements, reviewed the retention of nonstandard feature justifications for sound engineering judgment, and prepared the design approval recommendations.

JACK GORTON, P.E.
PROJECT MANAGER

Professional Qualifications:
P.E., New York, 2014, #094589

Education:
B.S. Mechanical Engineering, Binghamton University, 2009

Training Certifications:
Certification in Nuclear Density Gauge Operation for Asphalt & Earthwork

Certified ACI Level I

Total Years of Experience:
8

Years with HVEA:
8

Mr. Gorton has over 8 years of experience in transportation design and construction support involving bridge, highway and pedestrian access. His projects have involved all aspects of design from conception, scoping, analysis, environmental planning and coordination, inspection, and securing NYSDOT/FHWA design approval, to the preparation of final plans, specifications, and estimate and construction inspection.

Project Experience:

Project Manager - Taylor Road Bridge Replacement, PIN 8759.22, Town of Cornwall, Orange County, NY, $1.5M (2011 - 2016)
Project Manager for this project to design the replacement of the Taylor Road Bridge over the Woodbury Creek. This project involved extensive coordination with ROW specialists, surveyors, the County and property owners. Mr. Gorton was responsible for this coordination and ultimately satisfying all parties. This project was recently constructed on time and budget. ***Locally Administered Federal Aid Project.***

Project Manager - Heritage Trail Extension, PINS 8780.18, 8755.98, & 8757.05, City of Middletown & Town of Goshen, Orange County, $10M (December 2012 - Present)
Project Manager for this for this $10M, 10 mile shared-use path extension to provide a link from the Village of Goshen to the City of Middletown. This project features unique alignment, coordination and environmental challenges as large sections of the abandoned rail road alignment have since been developed on. Mr. Gorton is responsible for overcoming these challenges and designing a continuous shared-use path, the trail amenities, emergency access paths, and rehabilitation and construction of five abandoned railroad bridges, two superstructure replacements, and two culvert replacements. ***Locally Administered Federal Aid Project.***

Project Manager - Dutchess Rail Trail - Stage 5, Town & City of Poughkeepsie, NY (2012-2013)
Project Manager for this $1.9M highly anticipated project to provide a shared-use trail to connect the Walkway Over The Hudson to The Dutchess Rail Trail. Mr. Gorton was responsible for the design of the new shared-use trail, trail access paths, parking lot layout, drainage design, environmental coordination and specifications. This project was designed on an accelerated schedule and required close coordination with the project Sponsor.

Project Manager - VN-84 Reconstruction and Rehabilitation of the Upper Level Approach Decks at the Verrazano-Narrows Bridge, Contract, PSC-15-2984, New York, NY, TBTA (August 2016 - Present)
Project Manager on this project to reconstruct the approaches to the Verrazano-Narrows Bridge. HVEA is specifically tasked with improving the Lily Pond Avenue Ramp. Mr. Gorton is overseeing the design for this project developing and analyzing alternatives to improve the operations of the ramp and improve safety for pedestrians and bicyclists. Alternatives include constructing a shared-use path under the existing ramp, a shared-use path over the ramp and a ramp “fly-over” over Lily Pond Avenue.

Project Manager - South Putt Corners Road (CR17) Rehabilitation, PIN 8759.90, Town of New Paltz, Ulster County, NY $2.4M (December 2012 - Present)
Project Manager for this $2.4M project to design the rehabilitation of 1.7 miles of South Putt Corners Road. Work includes the evaluation of horizontal and vertical curves, shoulder widening, guide rail, correction of cross slope and superelevation, utility relocations and signage, the preparation of design approval documentation for NEPA concurrence by NYSDOT, the determination of project design criteria, analysis of existing drainage system, environmental coordination and the preparation of project plans in accordance with NYSDOT specifications. ***Locally Administered Federal Aid Project.***

Senior Design Engineer, - Route 82 @ Fishkill Road and Trinka Lane, PIN 8014.45, Town of East Fishkill, Dutchess County, $4M (Jan 2012 – Present)
Senior Design Engineer for this proposed connector road in the Town of East Fishkill. The road will connect a new housing development to the hamlet, providing the residents with alternative means of accessing the businesses. Mr. Gorton was responsible for the design of the roadway and environmental coordination including horizontal and vertical alignments, wetland impacts, retaining walls, culvert and roundabout design. This project bisects a wetland and requires close coordination with the NYSDEC to adequately relocate the disturbed wetland.

Senior Design Engineer - Spring Road Rehabilitation, PIN 8759.21, Town of Poughkeepsie, Dutchess County, NY $1.81M (September 2011 - Present)
Senior Design Engineer assigned to design of the rehabilitation of 0.7 miles of Spring Road. Work includes the evaluation of horizontal and vertical curves, widening, guide rail, correction of cross slope and superelevation, utility relocations and signage, the preparation of design approval documentation for NEPA concurrence by NYSDOT, the determination of project design criteria, analysis of existing drainage system, environmental coordination and the preparation of project plans in accordance with NYSDOT specifications. ***Locally Administered Federal Aid Project.***

Design Engineer - East Fishkill Traffic Study of Critical Locations, Town of East Fishkill, Dutchess County, NY (November 2011 - January 2012)
Design Engineer for this traffic study of various locations in the Town of East Fishkill. Mr. Gorton was responsible for the analysis of traffic data and for designing multiple alternatives to alleviate the traffic congestion. Alternatives included roundabouts, new signal timings, additional turning lanes and slip ramps.

Design Engineer - Forshay Road Reconstruction, Town of Ramapo, Rockland County, NY, $9M (2012 - 2014)
Design Engineer for this $9M project to provide the reconstruction design of 2.0 miles of this heavily traveled roadway linking Rockland Community College and the Village of Wesley Hills. The work included: complete pavement reconstruction, establishment of consistent lane widths; signalized intersection reconstruction and addition of turn lanes; replacement of the closed drainage system; horizontal realignment to improve nonstandard curves; addition curbs and sidewalks; and the updating of existing guide rail, signage, pavement markings and other roadway appurtenances. This project entailed the construction of a modern roundabout, which eliminated a safety deficient four leg intersection. In addition, it also included the design of 11 intersections, two new traffic signals, and ROW takings from 15 parcels. ***Locally Administered Federal Aid Project.***

Project Engineer - Lower Hudson Transit Link Early Tasks – Nanuet Park and Ride, Rockland County, D031048-02, $5M (2015)
Mr. Gorton was the Project Engineer responsible for the drainage and Stormwater Management design and regulatory compliance on this fast track park and ride project. Work included stormwater analysis, the design of stormwater management facilities, SWPPP preparation and erosion and sediment control design and plan preparation.

JOHN BALISON, P.E.
PROJECT QUALITY MANAGER

Professional Qualifications:
P.E., New York, 1996, #073045

Education:
B.S. Civil Engineering, SUNY Buffalo, 1991

Training Certifications:
ACI Aggregate Testing Level I

ACI Laboratory Testing Technician Level I

ACI Strength Testing Technician Level I

RSO & Op Certification in Nuclear Density Testing

Appia ® Trained

NYSDOT Design Procedures Manual, Phases I-IV, NYSDOT Region 8

Design of Prestressed Concrete Bridges, NYSDOT Region 8

Seismic Design of Highway Bridges, NHI

Seismic Design of Highway Bridge Foundations, NHI

Work Zone Traffic Control, NHI

Total Years of Experience:
26

Years with HVEA:
15

SUMMARY:

Mr. Balison's experience as Project Manager, Designer, and Resident Engineer spans more than 25 years in the Hudson Valley. His recent work as Project Manager on multiple FHWA funded design and inspection projects gives him a clear view of the current design practices and protocols. Mr. Balison's projects have involved a wide variety of types, on both the State and local systems. His design experience as a former squad leader in the NYSDOT Region 8 Structures Group is a valuable asset; He is the designer of record on 26 capital projects, including bridge, highway, and trailway designs dating to 1991. Additionally, as the former NYSDOT Bridge Design Liaison to the Construction Group in Region 8, he provided design support, troubleshooting, and shop drawing, and erection and demolition plan review on over 40 on-going bridge projects. His experience resolving issues with contractors lends to his strength as a creative problem solver.

PROJECT EXPERIENCE:

Project Manager - Taylor Road Bridge Replacement, PIN 8759.22, Town of Cornwall, Orange County, NY, $1.5M (2011 - 2016)
Mr. Balison was the Project Manager assigned to the oversight of the design of the replacement of the Taylor Road bridge over the Woodbury Creek. Work included the design of a precast arch system, abutments, scour protection, removal of existing structure, drainage system corrections, erosion control plan and detour, documentation for NEPA concurrence by NYSDOT, the determination of project design criteria, analysis of existing structure and drainage system, and the preparation of project plans in accordance with NYSDOT specifications. ***Locally Administered Federal Aid Project.***

Project Manager - Mud Tavern Road over Dwaar Kill, PIN 8756.66, Town of Shawangunk, Ulster County, NY, $1.4M (2009 - 2012)
Mr. Balison served as Project Manager for this project to design an integral abutment, prestressed concrete bridge replacement. The project included preliminary design, environmental studies, ROW takings from adjacent parcels, public informational meetings, NYSDOT design report and FHWA NEPA concurrence, final plans and estimate. ***Locally Administered Federal Aid Project.***

Project Manager - Dover Furnace Road Bridge over Metro-North Railroad, PIN 8756.01, Dutchess County, NY, $2.0M (2010 - 2013)
Mr. Balison was the Project Manager and Construction Inspection Manager for the replacement of this historic truss bridge over Metro-North Railroad. The work involved replacement of the existing bridge on improved vertical alignment, and rehabilitation of the existing historic truss bridge for use at an alternate location under a MOU with SHPO. ***Locally Administered Federal Aid Project.***

Project Manager - Lime Kiln Road over Ten Mile River Bridge, Town of Dover, Dutchess County, NY, $2.0M (2010)
Mr. Balison served as Project Manager and part-time Resident Engineer for this 125 foot span truss bridge project. The project work included deck replacement and steel repair, Class A containment for paint removal and abrasive blast cleaning, paint application, bearings, concrete pedestals, and approach roadway reconstruction. He was also responsible for the preparation of federal-aid project closeout. ***Locally Administered Federal Aid Project.***

Project Manager - Putnam Bikeway II Stage 4, PIN 8759.05, Town of Southeast, Putnam County, NY, $5M (2010 - 2015)
Mr. Balison was the Engineer of Record and Construction Project Manager for this multi-use trail project along an abandoned former railroad embankment in Putnam County. The work included a 500-foot multi-span pedestrian bridge over 5 rail tracks at the MNRR Brewster Yard. The bridge is supported by pier bents founded on drilled shafts, and the abutments are comprised of 20-foot high MSE walls with spread footing pedestals. ***Locally Administered Federal Aid Project.***

Resident Engineer - Salt Point Turnpike (CR 17) over Tributary to Wappinger Creek, PIN 8755.89, Town of Clinton & Netherwood Road (CR 41) over Great Spring Creek, PIN 8755.82, Town of Pleasant Valley, Dutchess County, NY (2005 - 2009)
Mr. Balison was the Resident Engineer for the construction inspection and support services for two Bridge Replacement Projects. The projects included evaluation and approval of a value engineering proposal by the low bidder, temporary bridge construction for onsite traffic maintenance at one location and off site detour maintenance at the second location. Replacement bridges were prestressed concrete superstructures on integral abutments, including demolition and removal of the existing structures, pile driving, concrete abutment and deck, concrete beam placement, embankment stabilization, and asphalt concrete paving operations.

Project Manager - Bridge Replacement Lexington Avenue Bridge over Branch Brook, Village of Mount Kisco, Westchester County, NY (2004 - 2005)
Mr. Balison was the Project Manager for resident engineering and construction inspection and support services for two bridge replacement projects which included the review, evaluation, and approval of a value engineering proposal by the construction contract low bidder, temporary bridge construction for onsite traffic maintenance at one location and off site detour maintenance at the second location.

Project Manager - Hudson River Tappan Zee Crossing, Roadway Sign Design & Bridge Construction Shared Use Path over West Maintenance Ramp, Town of Nyack, Rockland County, NY, (2013 - Present)
Project Manager responsible for the complete oversight of the design plan for a new bridge carrying a shared use path over the west maintenance ramp, which will be a 70-ft span, pre-stressed concrete structure. Project work also includes all new and replacement roadway signage including support structures for the New NY Bridge project.

Project Manager - Forshay Road Reconstruction, PIN 8756.88, Village of Ramapo, Rockland County, NY, $9M (2007 - 2014)
Mr. Balison was the Project Manager for this $9M project to provide the reconstruction design of 2.0 miles of this heavily traveled roadway linking Rockland Community College and the Village of Wesley Hills. The work included complete pavement reconstruction, establishment of consistent lane widths, sidewalk and buffer design; horizontal and vertical realignment; replacement of a closed drainage system, 2 new culverts, MSE Walls, 2 signalized intersections, and a modern roundabout. The project required ROW takings from 15 parcels, multiple public meetings, and individual meetings with 22 property owners. ***Locally Administered Federal Aid Project.***

JASON WATZKA, P.E.
LEAD STRUCTURAL ENGINEER

Professional Qualifications:
P.E., New York, 2009, #087342

Education:
B.S. Civil Engineering, Rensselaer Polytechnic Institute, 2003

Training Certifications:
CIC Safety Seminar Crane & Rigging Safety, 2010

CIC Safety Seminar, NYSDOT Work Zone Traffic Control Training, 2010

AASHTO Load & Resistance Factor Rating Course

Synchro & SimTraffic Traffic Simulation Software Advanced Training

ACI Concrete Field Testing - Grade 1

Certified Nuclear Density Testing Technician

OSHA 10-Hour Safety Trained

Total Years of Experience:
13

Years with HVEA:
12

SUMMARY:

Mr. Watzka has 13 years of experience as a designer and construction support engineer on bridge and highway projects. He has broad knowledge of NYSDOT standards and specifications. Mr. Watzka's project responsibilities have had an emphasis in structural engineering and have included all aspects of design from conception, scoping, and analysis, to the preparation of final plans, specifications, and estimate.

PROJECT EXPERIENCE:

Structural Engineer - Taylor Road Bridge Replacement, PIN 8759.22, Town of Cornwall, Orange County, NY, $1.5M (2011 - 2016)
Structural Engineer assigned to design the replacement of the Taylor Road Bridge over the Woodbury Creek. Work included the design of a precast arch system, abutments, scour protection, removal of existing structure, drainage system corrections, erosion control plan and detour, documentation for NEPA concurrence by NYSDOT, the determination of project design criteria, analysis of existing structure and drainage system, environmental coordination and the preparation of project plans in accordance with NYSDOT specifications. ***Locally Administered Federal Aid Project.***

Structural Design Engineer - Mud Tavern Road over Dwaar Kill, PIN 8756.66, Town of Shawangunk, Ulster County, NY, $0.9M (2009 - 2012)
Mr. Watzka served as Structural Engineer for this project to design an integral abutment, prestressed concrete bridge replacement. The project work included preliminary alignment design, horizontal and vertical curve design, environmental studies, ROW takings from adjacent parcels, public informational meetings, a NYSDOT design report and FHWA NEPA concurrence, and final plans and estimate. ***Locally Administered Federal Aid Project.***

Structural Design Engineer - Replacement of Dover Furnace Road Bridge (CR 26) over Metro-North Railroad, PIN 8756.01, Town of Dover, Dutchess County, NY, $2.0M (2006 - 2012)
Mr. Watzka was the Design Engineer for this project to replace a historic pony truss over MNRR. He analyzed several proposed bridge alternatives, prepared the NYSDOT Design Report, preliminary and final plans and estimate, coordinated ROW mapping with survey personnel, and assisted in the coordination with SHPO that led to a Memorandum of Agreement between the County, SHPO, NYSDOT and FHWA. In addition, Mr. Watzka completed the load rating and steel repair design for the historic pony truss structure to accommodate the use of the historic bridge on a future county bike and/or pedestrian project. ***Locally Administered Federal Aid Project.***

Structural Engineer - Heritage Trail Extension, Segments 1-3, PIN's 8780.18, 8755.98 & 8757.05, Village of Goshen, Orange County DPW, $10M, (2013 - Present)
Mr. Watzka is the Structural Engineer for this three PIN, 10 mile shared-use path extension to provide a link from the Village of Goshen to the City of

Middletown. Mr. Watzka is responsible for designing the rehabilitation of five abandoned railroad bridges, two superstructure replacements and two culvert replacements.

Design Engineer - Bridge Deck Design for Three Former Railroad Bridges for the Dutchess Rail Trail - Poughkeepsie Extension, City of Poughkeepsie (2006 - September 2012)
Mr. Watzka was the Design Engineer for the analysis of three railroad bridges to be rehabilitated and/or retrofitted for bike path use. Design, analysis, and inspection of the three bridges included AASHTO load rating calculations and new bridge deck and bridge rail system analysis for the bridges.

Structural Design Engineer - Putnam Bikeway II Stage 4, PIN 8759.05, Town of Southeast, Putnam County, NY, $5M (2011 - 2014)
Mr. Watzka was the Project Engineer for this project to construct a 500' long multi-span pedestrian bridge over MNRR in Brewster. He analyzed several bridge options, and was responsible for the structural design, including analysis of soil boring reports and design of drilled shaft supported pier bents, MSE wall supported abutments, and MNRR electrical duct banks for track power. ***Locally Administered Federal Aid Project.***

Structural Q/A Engineer - D031006, Design-Build Procurement and Administration, Accelerated Bridge Program, Zone 4, NYSDOT (June 2012 - December 2012)
Mr. Watzka performed "over the shoulder" review of the design of the 13 bridges in NYDSOT Regions 1 & 7. In this role, he worked side by side with the engineers in the designer's office, reviewing the bridge plans for quality and compliance as they were produced.

Project Engineer/Q/A Inspector - Beacon Station: Emergency Parking Lot Expansion Design/Build Project, Beacon, NY, Metro-North Railroad (9/2011 - 12/2011)
Mr. Watzka served as Project Engineer and Q/A Inspector for this design build project to provide additional parking at the Beacon Train Station to accommodate additional riders due to the damage to the Port Jervis Line during Hurricane Irene. Mr. Watzka was responsible for overseeing design of the new parking lot and for quality assurance during construction. This was a design build project that required close coordination with the contractor and was constructed on an accelerated schedule. Work was completed on time and within budget.

Construction Support Engineer, New Hempstead Road (CR 80) Reconstruction, PIN 8755.23, Rockland County, NY, $32.5M (March 2011 – 2014)
Mr. Watzka served as a Construction Support Engineer on this project. Numerous issues arose during construction requiring modifications to the plans. Services performed by Mr. Watzka included: Redesign of numerous T-walls and one MSE wall to accommodate changes in roadway profile and utility conflicts, redesign roadway profile and parking lot contours, redesign intersection plans with superelevation details, review and approval of bridge erection plan and shop drawings. Mr. Watzka also reviewed and improved three Value Engineering proposals. ***Locally Administered Federal Aid Project.***

Structural Design Engineer - Hudson River Tappan Zee Crossing - Bridge Construction, Shared Use Path over West Maintenance Ramp & Roadway Sign Design, Town of Nyack, Rockland County, NY (2013 - Present)
Design Engineer responsible for the complete design plan for a new bridge carrying a shared use path over the west maintenance ramp, which will be a 70-ft span, pre-stressed concrete structure. Project work also includes all new and replacement roadway signage including support structures for the New NY Bridge project.

JARED ANDERSON, P.E.
LEAD HIGHWAY & UTILITY COORDINATION

Professional Qualifications:
P.E., New York, #084013, 2006

Education:
B.S. Civil Engineering, Stevens Institute of Technology, 2001

Total Years of Experience:
16

Years with HVEA:
Start Date: 2.13.17

SUMMARY:

Mr. Anderson specializes in highway design and project supervision for town, city and county projects. His wealth of experience over the years allows him to guide all phases of a project in the right direction, from scoping and survey to final design and construction support. He deals directly with agency contacts on a daily basis and ensures all needs are met to the satisfaction of the client. His area of expertise includes the development and evaluation of highway geometry alternatives for various types of highway projects and assessing ROW impacts, while applying the latest agency standards.

In addition, Mr. Anderson has experience in other critical project phases, such as ROW assessments, utility coordination, environmental assessment, public involvement, and construction support. He has a strong background in the use of Microstation and InRoads software. He also has an intimate understanding of the six phase NYSDOT design process. Through his work with municipalities on Federal-Aid projects, he has established relationships with several key members of the NYSDOT Local Projects Unit.,

PROJECT EXPERIENCE:

Project Engineer - Ashford Avenue Bridge Rehabilitation over I-87 & Saw Mill River Parkway, Ardsley, NY, Westchester County DPW (2016)
Mr. Anderson was the Lead Highway Design Engineer for this $22 million Locally Administered Federal Aid project which involved the rehabilitation of the Ashford Avenue Bridge over the Saw Mill River Parkway (SMRP) and I-87. The east approach spans the Saw Mill River with a length of 405' and 6 spans. The substructure will be repaired/rehabilitation and the superstructure will be replaced with a Precast Modular system. The NB Saw Mill River Parkway access ramp structure is also being replaced as a part of this project. The ramp structure is 173 feet long with a 100 foot filled abutment and is split into 3 spans. Superstructure replacement is the preferred alternative. Repairs will be performed on the existing piers and abutments. The traffic signal at Ashford Avenue and the SMRP entrance/exit ramp will be replaced. A major component of this project aside from the structural design is a detailed traffic study involving the collection and analysis of existing data for current conditions, proposed conditions, and impact during multi-stage construction. Aside from highway tasks, Mr. Anderson also coordinated a right-of-way acquisition effort on 4 adjoining properties and compiled an extensive Design Approval Document reviewed by NYSDOT Region 8, NYSDOT Main Office and the FHWA. ***Locally Administered Federal Aid Project.***

Project Engineer - Croton Falls Bridge over the Croton River, North Salem, NY, Westchester County DPW (2014)
Entailed the rehabilitation design of the Croton Falls Road Bridge over the Croton River. The former structure consisted of a reinforced concrete arch that supported two lanes of vehicular traffic. An independent pedestrian truss bridge was situated adjacent to the existing bridge and was considered at the end of its useful life. The project involved the rehabilitation and widening of the existing arch bridge to support pedestrians and remove the

existing truss structure. Mr. Anderson provided technical oversight and review of the highway geometry and multi-stage MPT plans including a detour route through this heavily trafficked area.

Project Engineer - RDSA Critical Bridges over Water (CBOW), NYSDOT (2014)
Responsible for providing consultant services in support of the CBOW Program, which involved the replacement of numerous structurally deficient and functionally obsolete structures. This project included the detailed hydraulic analysis, using HEC-RAS software for 10 bridges in Region 8. Based on the results, a recommended span length and bottom chord elevation for each of the proposed structures was provided with preliminary general plans, sections and profiles for insertion in Design Reports. Mr. Anderson was responsible for providing oversight in reviewing highway geometry, on-site maintenance and protection of traffic and typical sections. He also assisted in preparing preliminary general plans.

Design Engineer - Maple Avenue (CR 37) over Wallkill River, Town of Goshen, NY, Orange County DPW (2006 - 2007)
This project involved the full superstructure and substructure replacement of the three span thru-girder bridge that carries Maple Avenue (County Route 37) over Wallkill River in the Towns of Goshen and Wawayanda, Orange County NY. The structure was classified as priority deficient on the State's bridge inventory. A single span configuration was selected due to both construction duration issues and budgetary requirements Mr. Anderson assisted specifically in a construction support role in the later phase of the project. The project was completed 3 months ahead of schedule and to the satisfaction of the Orange County DPW as well as the local community. ***Locally Administered Federal Aid Project.***

Design Engineer & QA/QC - June Road Rehabilitation, Town of North Salem, NY, Westchester County DPW (2015)
This project included the preliminary and final design of 3.2 miles of roadway within the Town of North Salem, NY between the NY 121 and the Putnam County line. Mr. Anderson served in a support and QA/QC role for this environmentally sensitive project, featuring a new 2-course overlay, areas of full-depth reconstruction, drainage design, guide rail, and coordination with both NYSDEC and NYCDEP. Mr. Anderson oversaw the preparation of the draft design document and preliminary design plans for WCDPW&T review and comment. He was responsible for overseeing the preparation of all necessary documentation for the project SWPPP in order to meet NYSDEC Phase II Stormwater Requirements, as well as satisfy all NYCDEP requirements as the project was in the vicinity of an active NYC Reservoir. Mr. Anderson provided construction support services as well and coordinated on a near-daily basis with the Resident Engineer. ***Locally Administered Federal Aid Project.***

Project Manager/Engineer - Noxon Road Rehabilitation, Town of LaGrange, NY, Dutchess County DPW (2010 - 2015)
This project encompassed the final highway design (Phases I-VI) for the Federally-Aided rehabilitation of Noxon Road (CR 21) between NYS Route 55 and Titusville Road (CR 49). This 1.8 mile stretch of roadway in the Town of LaGrange in Dutchess County, NY serves as a vital connecting link between the Town of Poughkeepsie and the Taconic State Parkway. The two project segments (1.8 miles); PIN 8755.41 (NYS Route 55 to CR 49 Titusville Road) and PIN 8758.69 (Intersection of CR 21/CR 49) were progressed as one combined project. Mr. Anderson was the lead designer for the restoration of this urban minor arterial. The project features a new two-course overlay, intersection design and capacity analysis, signal replacement, drainage improvements, areas of horizontal and vertical realignment, areas of curb, sidewalk and crosswalk installation, extensive impacts to ROW, new guide rail, signing, and striping. Mr. Anderson completed the preliminary design and assessed all impacts for nearly 140 parcels on over 60 ROW maps. He compiled information into a final design approval document with preliminary plans, provided oversight to finish PS&E, and coordinated with multiple utility agencies. A final design report document and final plans and estimate were prepared. In the assembly of the design report, various data collection efforts were undertaken such as a speed study and a study of accident history for a 3-year period through the corridor. Entailed a traffic study of the Noxon and Titusville Road intersection – one of Dutchess County's busiest intersections. This study included conducting manual traffic counts of the intersection and adjacent driveways of two busy service stations. ***Locally Administered Federal Aid Project.***

BRENDAN FITZGERALD, P.E., CPESC, CPSWQ

LEAD ENVIRONMENTAL - PERMITTING/HYDRAULICS

Professional Registration:
P.E., New York, 1997, #074115

Education:
B.S. Civil Engineering, Cornell University, 1990

Training Certifications:
Syracuse University College of Environmental Science & Forestry - Stormwater Management Program

Certified Professional in Erosion and Sediment Control (CPESC)

Certified Professional in Storm Water Quality (CPSWQ)

Total Years of Experience:
26

Years with HVEA:
15

SUMMARY:

Mr. Fitzgerald's twenty-six years of experience with projects under NYSDEC and ACOE jurisdiction and in the NYCDEP watershed has aided his development as an erosion control, wetland and watershed regulation compliance expert. Mr. Fitzgerald's project experience has been gained entirely under the auspices of the NYSDOT Design Specifications, NYSDEC and NYCDEP regulations and Corps of Engineers guidelines. He has designed and implemented various progressive erosion control plans and details on a wide variety of transportation projects. Mr. Fitzgerald has served as an Environmental Compliance Specialists on construction projects for the NYSDOT, NYSTA, and on the Federal-Aid Local System.

PROJECT EXPERIENCE:

Project Manager - Putnam Bikeway II Stage 4 over MNRR Harlem Line, PIN 8759.05, Putnam County Division of Planning, $6.125M (2010 - 2015)
Mr. Fitzgerald was responsible for all aspects of this shared-use path project to construction a multiuse trail along the abandoned former railroad embankment. Design included a 10-foot asphalt trail with grass shoulders, subbase preparation, a 500' multi-span bridge over the MNRR Brewster Yard, and wetland mitigation. He was specifically responsible for the environmental work which included SPDES General Permit GP-0-10-001, EEO 11990 Individual Wetland Finding, USACEOE Section 404 Wetland Permit, NYSDEC Section 401 Water Quality Certification, NYSDEC Article 24 Freshwater Wetland Individual Permit and all USFWS Section 7 and NYSDEC National Heritage Program Endangered Species and Section 106 (SHPO) Coordination. Mr. Fitzgerald was in charge of the oversight and final design and project coordination for this project. ***Locally Administered Federal Aid Project.***

Project Manager - NYS Route 82 @ Fishkill Road and Palen Road, PIN 8014.45, Town of East Fishkill, NY, $4M (2014 - Present)
Mr. Project Manager for this proposed connector road in the Town of East Fishkill. Mr. Fitzgerald is responsible for overseeing the design of the roadway, intersection improvements and environmental coordination including horizontal and vertical alignments, wetland impacts, retaining walls, culvert and roundabout design. This project bisects a wetland and requires close coordination with the NYSDEC to adequately relocate the disturbed wetland. ***Locally Administered Federal Aid Project.***

Environmental Compliance Specialist - CI Services for TANY 11-15 Pavement Rehabilitation, Bridge Removal, & Bridge Rehabilitation from MP60.2 to MP76.0, D214075, New York Division, NYSTA, $40M (2011 - 2013)
Mr. Fitzgerald was responsible for oversight of environmental compliance and mitigation measures. His responsibilities include erosion and sediment control, wetland protection, and environmental ground protection for bridge work involving lead paint.

Environmental Compliance Specialist - Reconstruction of I-87/I-84 Interchange 17, Contract III, TANY 06-51, Newburgh, NY, NYSTA/NYSDOT, $72M (2007 - 2010)
Mr. Fitzgerald was responsible for oversight of erosion control systems and environmental controls on this $72M project including the construction of six new bridges carrying new thruway and interstate ramps over mainline traffic for the realignment/reconstruction of I87/I84 - Interchange 17 & the Newburgh Toll Barrier in Orange County. He reviewed and approved the Contractor's operations, environmental compliance, and site procedural coordination with NYSDOT and NYSDEC.

SWPPP & SPDES Design - Route 7 over I-87, PIN 1306.50, Albany County, NY, NYSDOT, $34M (2006 - 2009)
Mr. Fitzgerald was responsible for the Stormwater Management Design and regulatory compliance. Included the conceptual plan, preliminary and final design work, SWPPP and interim construction and final erosion and sediment control and stormwater best management practices design.

Erosion & Sediment Control Specialist - Taconic State Parkway, Route 35/202-Route 6, Stage 2, D015324, Town of Yorktown, NYSDOT, $70M (2003 - 2006)
Mr. Fitzgerald was responsible for oversight of the erosion control systems and environmental controls on this complex construction project which is located within the NYCDEP Croton Watershed. He served as Specialist-In-Charge of the review and approval of the Contractor's operations, environmental compliance, and the site and procedural coordination with NYSDOT, NYCDEP and NYSDEC.

Lead Environmental/Project Manager - Route 9 Sidewalks, Kinderhook to Valatie Link, PIN 8010.61, Village of Kinderhook (2009 - 2012)
Responsible for NYSDEC SWPPP preparation and approval, NYSDEC Article 24 Freshwater Wetland Permit, NYSDEC Section 401 Water Quality Cert, SPDES General Permit GP-0-10-001, NYSDEC Article 15 Stream Disturbance Permit, NYSDOT Highway Work Permit, Programmatic Section 4(f) Parkland evaluation and all USFWS Section 7 and NYSDEC National Heritage Program Endangered Species and Section 106 (SHPO) Coordination. ***Locally Administered Federal Aid Project.***

Project Manager - Carmel Revitalization II, PIN 8390.83, Putnam County, New York (2007 - 2012)
Responsible for NYCDEP SWPPP preparation and approval, NYCDEP Wetland and Watercourse Variance Approval, NYSDEC Article 24 Freshwater Wetland Permit, NYSDEC Section 401 Water Quality Cert, SPDES General Permit GP-0-08-001, NYSDOT Highway Work Permit, Programmatic Section 4(f) Parkland evaluation and all USFWS Section 7 and NYSDEC National Heritage Program Endangered Species and Section 106 (SHPO) Coordination. ***Locally Administered Federal Aid Project.***

Erosion Control/Watershed Specialist - Putnam County Bikeway III, Stages 2 & 3, PIN 8757.83, Town of Carmel & Southeast, NY, Putnam County Division of Planning, $10M (2007 - 2009)
Mr. Fitzgerald served as a Watershed Specialist in the design and construction phases, directing the design consultant through the NYCDEP regulations and overseeing the Contractor's implementation of the mitigation measures. He was responsible for coordination with the NYCDEP Engineering Review Section, compliance with the newly adopted SPDES requirements, development of compliance strategies, and the Stormwater Pollution Prevention Plan, authoring reports to the DEP, and all other issues relating to the watershed regulations. Mr. Fitzgerald was also responsible for compliance with the NYSDEC and ACOE arising from SPDES requirements and Federal wetlands in the project limits.

Erosion Control/Watershed Specialist - Emergency Drainage Repair at Nine Locations, Putnam County, NY, $2.35M (2003)
This FEMA reimbursed emergency repair contract implemented several progressive erosion control details as temporary control and permanent rehabilitation alternatives to include sediment basins and traps, check dams, inlet protection, permanent vegetated stone slopes, and silt and vegetation fencing. All these project locations are in the NYCDEP Croton watershed and had NYSDEC and ACOE involvement relating to stream disturbance, endangered species and wetlands.

JASON SMITH, E.I.T., CPESC

HYDRAULICS/STREAM ANALYSIS/STORMWATER

Professional Registration:
E.I.T./2003/RI

Education:
B.S. Civil Engineering, Rogers Williams University, 2003

Training Certifications:
Nuclear Density Gauge Operation for Asphalt & Earthwork

Certified ACI Concrete Field Testing Technician - Grade 1

Wetland Identification and Delineation

Stormwater Management for Linear Projects

Certified Professional in Erosion and Sediment Control (Specialist)

Total Years of Experience:
10

Years with HVEA:
9

SUMMARY:

Mr. Smith has over ten years of experience on a variety of design projects. His work has had an emphasis on InRoads™ roadway modeling, pedestrian access projects, stormwater, wetland delineation and impact studies, drainage, erosion control, and compliance with environmental regulations on transportation projects.

Mr. Smith's focus has been on wetlands, stormwater, erosion control and SPDES. He has prepared SWPPP's for several roadway projects, and he was an integral part of the team that design the SWPPP for the $85M NYSDOT project to reconstruct the Exit 6 interchange on the Northway (I87).

PROJECT EXPERIENCE:

Storm Water Pollution Prevention Plan (SWPPP) and SPDES Design Engineer - PIN 8759.05, Putnam Bikeway II Stage 4 over MNRR Harlem Line, Putnam County Division of Planning, $6.125M (2010 - 2015)
Mr. Smith was design engineer responsible for drainage, erosion control, SPDES and DEP permitting, and hazardous material removal on this 500' bridge project over the MNRR Harlem line at the Brewster Rail Yard. Mr. Smith prepared the SWPPP, wetland mitigation plans and details, coordinated testing of the potentially hazardous surplus material, and developed an action plan for approval by the MTA for its removal. ***Locally Administered Federal Aid Project.***

Lead Hydraulic Engineer - D031246-01, I-684 Resurfacing Hardscrabble Road to I-84, Putnam County, $50MM (2015 - 2016)
Mr. Smith was the Lead Hydraulic Engineer responsible for the drainage system video inspection, stormwater analysis and design and permit compliance on this interstate rehabilitation phase V - VI final design project. The existing infrastructure was rehabilitated with pipe linings to the extent practical to minimize interruptions to traffic.

Environmental Engineer - PIN 8127.26 Taconic State Parkway: Pudding Street Interchange, Putnam Valley, NY, NYSDOT, $25M (2015 - Present)
Environmental Engineer on this new interchange design project to replace the at-grade Taconic State Parkway at Pudding Street intersection. Responsible for the data compilation, analysis, impact determination and presentation of Chapter 4 – Social, Economic, and Environmental Conditions and Consequences of the Final Design Report. The responsible work included wetland delineation and impact assessment; preparation of a Wetland Mitigation Plan; a Visual Resource screening; and design report QC/QA to insure compliance with applicable sections of SEQRA and NEPA.

Drainage Design Engineer - PIN 8756.88, Forshay Road Reconstruction, Village of Ramapo, Rockland County, $9M (2006 - 2009)
Mr. Smith was the drainage design engineer for this 1.25 mile roadway reconstruction project. The project included: pavement reconstruction,

drainage system rehabilitation and new drainage facility installation, sidewalk and buffer design; horizontal and vertical realignment; culvert replacement and the updating of existing guide rail, signage, pavement markings and other roadway appurtenances. Mr. Smith performed InRoads™ modeling, drainage design, and assisted with the detailing of the plans. ***Locally Administered Federal Aid Project.***

SPDES & Design Engineer - PIN 8390.83, Carmel Revitalization II, $1.4M (2010 - 2011)
Mr. Smith was the design engineer responsible for preliminary and final design of this project to provide safe pedestrian access from the downtown Hamlet of Carmel to a major commercial corridor along Route 6. Mr. Smith's work included pavement, pedestrian crossings, stormwater management, erosion and sediment control, wetland identification and impact assessment and NYSDEC permitting. ***Locally Administered Federal Aid Project.***

Design Engineering & SDES Inspector/OE - PIN 8010.61, Kinderhook Sidewalks, $1M (2011 - 2013)
Mr. Smith was the lead designer of this project, and then continued out to the field to perform as inspector and OE. The project constructed sidewalks along Route 9, connecting existing networks in the Villages of Valatie and Kinderhook - work included drainage, wetland delineation and impact assessment, bicycle enhancements, pedestrian crossings, and shoulder widening on NYS Route 9. In construction, Mr. Smith was the project leader; he conducted meetings, recommended payments, coordinated additional inspection and testing staff as-needed. He conducted weekly SPDES inspections, and coordinated with the DOT. ***Locally Administered Federal Aid Project.***

Lead Environmental Engineer - D031048-02, Lower Hudson Transit Link Early Tasks - Nanuet Park & Ride, NYSDOT, $2M (2015)
Mr. Smith was the lead environmental engineer responsible for the drainage and Stormwater Management design and regulatory compliance on this fast track park and ride project. Work includes stormwater analysis, the design of stormwater management facilities, SWPPP preparation and erosion and sediment control design and plan preparation.

SWPPP Inspector & Assistant to Watershed Specialist - PIN 8757.83, Putnam Bikeway II, Stages 2 & 3, Town of Carmel & Southeast, NY, Putnam County Division of Planning, $2.5M (2007 - 2009)
This was a federal-aid, Phase I- VI project located in the NYCDEP watershed. Mr. Smith assisted the Project Watershed Specialist, working with the design consultant to navigate through the NYCDEP regulations. He assisted in coordination with the NYCDEP Review Section, compliance with the newly adopted SPDES requirements, development of compliance strategies and the SWPPP, authoring reports to the DEP, and all other issues relating to the watershed regulations. During construction, Mr. Smith conducted weekly inspections of the project in accordance with the SPDES General Permit. He identified erosion and sediment control and or stormwater management practices that required repair or maintenance, identified deficiencies in the SWPPP, and assisted in compliance with the NYSDEC and ACOE arising from SPDES requirements and Federal wetlands.

SWPPP & SPDES Design Engineer - PIN 1306.50, Route 7 over I-87, Albany County, NY, NYSDOT, $34.0M (2007 - 2009)
Mr. Smith was the Design Engineer responsible for the Stormwater Management design and regulatory compliance. This work included the first overhead single point urban interchange (SPUI), road reconstruction, pedestrian improvements, auxiliary lanes on I87 along both the north and south bound lanes between exit 5 and exit 6, landscaping improvements, and new drainage. Mr. Smith was responsible for a pre and post construction stormwater analysis. He was also responsible for the design of post construction stormwater management facilities to control quantity and quality of stormwater leaving the site. This work included the conceptual plan, preliminary and final design work, SWPPP, and interim construction, and final erosion and sediment control.

SECTION 4:

ORGANIZATION, FINANCIAL RESPONSIBILITY & DBE/WBE UTILIZATION

HVEA ENGINEERS

SECTION 4: Organization, Financial Responsibility & DBE/WBE Utilization

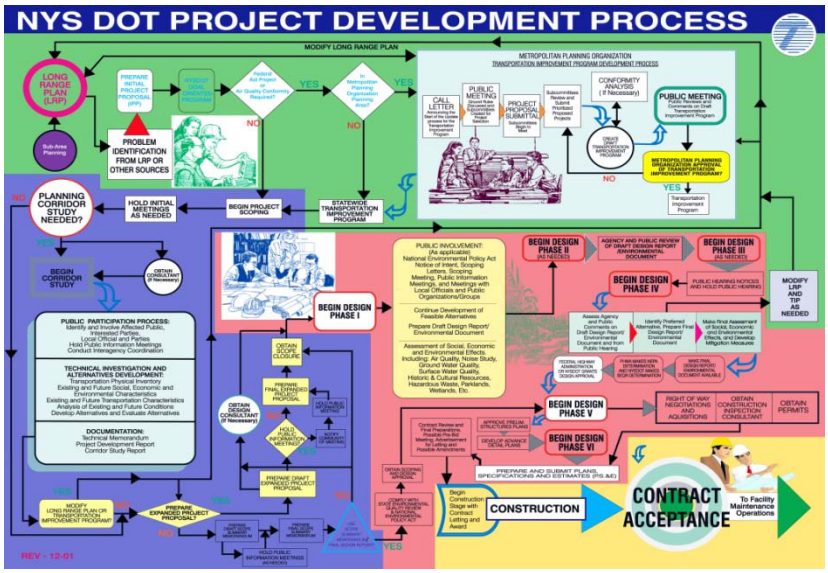
Organization & Financial Responsibility:

Our firm was founded in 2001 by three former NYSDOT Region 8 project engineers. We have successfully competed for many NYSDOT and local municipal projects leading to robust financial health and a stable backlog of project design and construction inspection work. We are part of consultant teams on several large regional infrastructure projects including the Tappan Zee Hudson River Crossing and the 2016 NYSDOT Region 8 Construction Inspection Term Agreement. In addition to these multi-year, multi-million dollar projects are the locally-administered and state-administered federal aid design projects completed in our Beacon, NY main office.

Our current staff includes 70+ engineers and inspectors and we are organized in project design teams—similar to the NYSDOT regional system. This team will be led by the Project Manager who will insure all project financial, engineering, and federal coordination work is identified and assigned to staff engineers that are qualified to progress the project through the approval and design processes.

The flow chart (right) details the Locally Administered Federally Aid (LAFA) project development process that will be overseen and coordinated by the Project Manager.

Each step will be assigned to project staff—thru construction and project acceptance by the Village. All the project examples cited earlier have successfully followed this process through construction and contract acceptance.



HVEA can quickly respond to municipal officials and any project needs allowing us to meet with local representatives on site to discuss specific project issues. In addition, our engineers will visit the project site throughout the design process in order to achieve the best design for the Village of Mamaroneck.

DBE/WBE Utilization

HVEA is a certified DBE and WBE firm in good standing and has successfully participated as a prime on a wide variety of federal-aid local projects throughout the Hudson Valley Region. HVEA has the ability and capacity to exceed the participation goals required for this project.

SECTION 5:

PROJECT APPROACH

This project proposes the replacement of the Hillside Avenue Bridge over the Mamaroneck River. Our engineers have reviewed the project site and performed preliminary research to develop a better understanding of the project. We have identified the following essential aspects of the project:

USACE & SHPO Considerations: The US Army Corps of Engineers (ACE) has released its Final Environmental Impact Statement (FEIS) for the Mamaroneck & Sheldrake River Basin improvements. While the Hillside Avenue Bridge is not slated for replacement as a direct result of the ACE's preferred "Alternative 1Z"; a review of the proposed river profile and channel section at Hillside Avenue shows an approximate cut of 1'-6" into the river bed with a 45' wide rectangular channel (vs. today's 31'-6" wide arch opening, on skew) and no change to the bridge profile. It is likely that future downstream improvements and the proposed diversion culvert just south of Jefferson Avenue will ultimately provide upstream relief. Regardless, HVEA will consult ACE in preliminary design to ensure a proper bridge opening and alignment that will satisfy both the FEIS preferred alternative and provide acceptable freeboard. The FEIS contains a memorandum of agreement (MOA) between SHPO and the ACE. The bridge and adjacent channel widening were constructed in 1937 using Works Progress Administration funds. Per SHPO, the bridge and adjacent walls are thus eligible for the National Register of Historic Places. The MOA outlines 8 stipulations which must be followed for impacts to the walls. Since Alternative 1Z does not specify the removal or replacement of the Hillside Avenue Bridge, it is not included as part of the terms of the MOA; however, HVEA will verify whether or not SHPO's stipulations will also apply similarly to this bridge replacement.

Structural Design & Utilities: HVEA has investigated structure types that will balance hydrologic needs vs. aesthetic and historic charm. Potential solutions include pre-stressed, prefabricated concrete beams and three-sided arch systems such as Hy-Span. For comparison, we examined the recently completed Jefferson Avenue Bridge. Both our designers and inspectors are aware of the challenges of cast-in-place concrete decks and the strict attention that must be paid during the curing process to avoid shrinkage cracking. Overlaying such a deck with a polymer wearing surface may prove to be a lasting, viable solution. An asphalt overlay is another possible treatment. Concrete parapets are recommended instead of bridge rail to provide the required drop off protection for pedestrians while allowing for decorative facing with existing stone masonry from the original bridge – a concept endorsed by SHPO in the MOA. The new abutments may be able to be built behind the existing, reducing impact to the river. HVEA is intimately familiar with the permit requirements for working in and over a water body such as the Mamaroneck River and will proactively confirm/obtain any necessary permits; potentially, ACE Nationwide Permits #3 and #14 for this project. Widening of the channel should favor the west side of the new bridge due to the presence of two sewer mains. A County-owned 66" concrete sewer runs parallel to the east abutment, while the Village's 8" cast iron sewer main passes through the east abutment/foundation and underneath the river, while drainage outlets directly into the river. Abutment design will take into consideration deeper foundations while accommodating the sewer mains to avoid costly relocations. Overhead utilities on the south side of the structure contain street light service and communications, and will require the relocation of at least one pole.

Drainage Pipe - Outlets into the Mamaroneck River

Traffic Control: The safest and most productive method of maintaining and protecting vehicular and pedestrian traffic during this project will be a full closure. HVEA will analyze and develop a detour plan that is satisfactory to all project stakeholders and fully incorporates maintained business, church and residential access. The local roadway network appears sufficient to support a one-season shutdown of Hillside Avenue with adequate detour signage.

Federal Aid Process: As a recipient of Bridge NY funding, this project is subject to DOT's Local Projects Manual. A comprehensive design report is required, including an evaluation of existing and proposed conditions, environmental screenings, and a public participation program regardless of project size. All efforts will be made to minimize impact to private ROW; however, our LDSA Team Member, R.K. Hite, Inc. will provide turnkey services to acquire any necessary easements or acquisitions. We will work with the project partnership to balance funding constraints with desired project scope. We routinely contend with these issues on other Federal Aid projects and foster strong lines of communication in order to lead to successful projects that are completed on time and within budget.

HVEA
ENGINEERS

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