

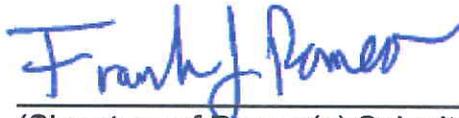
APPENDIX

- ✓ Provided are the following forms required in the Request for Proposals by the Town of Wellesley:
 - ▶ Certificate of Non-Collusion
 - ▶ Commonwealth of Massachusetts Tax Certification
 - ▶ Authority of Board
- ✓ Resumes

CERTIFICATE OF NON-COLLUSION

By submission of this bid or proposal, the undersigned certifies that:

1. This bid or proposal has been independently arrived at without collusion with any other bidder, competitor or potential competitor;
2. This bid or proposal has not been knowingly disclosed prior to the opening of bids or proposals for this project, or any other bidder, competitor or potential competitor;
3. No attempt has been or will be made to induce any other person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals to submit or not submit a bid or proposal;
4. The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, under penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder, as well as to the person(s) signing in its behalf.



(Signature of Person(s) Submitting Bid or Proposal)

Frank J. Romeo, President

(Name of Person(s) Submitting Bid or Proposal) Title

BETA Group, Inc

(Name of Business)

July 22, 2011

(DATE)

**COMMONWEALTH OF MASSACHUSETTS
TAX CERTIFICATION**

I certify, under penalties of perjury, that the below mentioned firm or person, to the best of my knowledge and belief, has complied with all the laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting of child support.

NAME/FIRM:

ADDRESS: BETA Group, Inc.

TELEPHONE: 781-255-1982 DATE: July 22,2011

SIGNATURE OF AUTHORIZED OFFICIAL:



TITLE: President

SOCIAL SECURITY # OR FEDERAL IDENTIFICATION #: 05-0398907

Approval of a contract, or other agreement, will not be granted unless this certification form is signed by the applicant.

Your Social Security number or Federal Identification number will be furnished to the Massachusetts Department of Revenue (DOR) to determine whether you have met tax filing or tax payment obligations. The Town is required to furnish a list to the DOR at the end of its fiscal year, showing the vendors to whom more than \$5,000 is paid during the 12 months ending June 30th. Providers, who fail to correct their non-filing or delinquency, will not have a contract or other agreement issued, renewed, or extended. This request is made under the authority of Massachusetts General Laws, Chapter 62C, Section 49A.

CERTIFICATION CLAUSE

MASSACHUSETTS GENERAL LAWS, CHAPTER 62C, SECTION 49A

**CERTIFICATE OF AUTHORITY
MEETING OF BOARD OF DIRECTORS**

At a meeting of the Directors of the Beta Group, Inc.

Duly called and held

at Lincoln, RI

On the 21st day of July in the year 2011, at

which meeting a quorum was present and acting, it was:

Voted, that Anthony Lionetta, the Senior Vice President of this Corporation is hereby authorized and empowered to make, enter into, sign, seal and deliver, in behalf of this Corporation a Contract for BETA Group, Inc. with the Town of Wellesley, and performance and payment bonds (each in the full amount of the Contract) in connection with such Contract.

I do hereby certify that the above is a true and correct copy of the record, that said vote has not been amended or repealed and is in full force and effect as of this date, and that Anthony Lionetta is duly elected Senior Vice President of this Corporation.



(Clerk or Secretary of the Corporation)

(Affix Corporate Seal)

Kien Y. Ho, P.E., PTOE
Project Manager**Experience:** 27 Years**Education:** M.S.C.E. Transportation Engineering, Northeastern University (1994)
B.S.C.E. Cleveland State University (1984)**Registrations:** Professional Engineer: RI # 7177, CT # 20486, MA #46431
Professional Traffic Operations Engineer**Professional Overview**

Mr. Ho has 27 years of experience in fields of transportation and civil engineering. Kien has served successfully as BETA's Project Manager for the Town of Wellesley for nearly 10 years and is very knowledgeable of the Town and its various Departments, Boards and Commissions. He has managed our On-Call service contracts with the Wellesley Board of Selectmen and the Wellesley Public Works Department. Kien has undertaken over 100 assignments for the Town under our On-Call Services contracts. Through these we have demonstrated a significant track record in successfully delivering services and serving as a strong technical resource to the Town.

He performs preliminary and final designs for highway projects, constructability review, construction staging / sequencing, traffic management plans, traffic signal plans, specifications and analyses, and installation of Intelligent Transportation Systems.

As a Senior Associate at BETA, Mr. Ho provides management, project supervision and technical guidance on a variety of transportation facility improvement projects and large-scale civil engineering projects.

On-Call Traffic Engineering Services – Wellesley, MA

- Performed an upgrade evaluation on the existing closed loop system from MARC to MARC NX system. The MARC NX system will provide quick traffic response system via adaptive split phase or adaptive Max time. The system can also function under real time traffic response system based on traffic demand at individual intersection approach and adjust the approach green time accordingly.
- Responsible for providing technical support to the engineers performing all the traffic and transportation assignments such as traffic studies, parking studies, safety improvements, pedestrian signal design, traffic signal design, traffic calming design and studies, signing and pavement marking design and peer review.
- Assist and represent the Town of Wellesley at meetings by providing technical support.
- Assist the Town in evaluating the existing transportation system infrastructure along the Washington Street corridor and applying Transportation System Management (TSM) strategies as a means of improving congestion and/or safety problems on the roadway system without resorting to major reconstruction of the existing roadway infrastructure. The application of Intelligent Transportation Systems (ITS) to help manage traffic congestion was also introduced to the town for consideration in the Washington Street corridor study. TSM techniques and the latest ITS application of advanced and emerging technologies such as traffic responsive type of software coupled with Ethernet communication, and video detection system were designed and implemented for the Town to help improve roadway congestion by maximizing the efficiency of the existing roadway network system.

Massachusetts Statewide Traffic Engineering Advisory On-Call Services – MassDOT

- As Project Manager, responsible for managing work orders assigned by the MassDOT Department including those associated with highway signage and signalized intersection improvements.
- Responsibility also included developing scopes of work, contract negotiations, invoicing, design contract documents, data collection, and report and traffic analysis for the design of roadway and intersection improvements at several sites in Massachusetts.

- Researched accident records to determine patterns and locations where rates were significantly higher than state and regional averages.
- Attended public meetings and presented design issues to various communities.
- Authored reports in support of the recommended design scheme and developed Dynamic Message Signs (DMS) for the I-93 zipper lane area (specific sites included: Winchester – Four intersection improvements, I-93 HOV zipper lane, and Route 140 signage update).
- Route 24 Signing – Upgrade approximately 20 miles of existing signing on Route 24 including sign panel design and review of sign support shop drawing tasks.

Natick Traffic Engineering Services – Natick, MA

- Assist the Town in evaluating the existing transportation system infrastructure along Route 27, Route 135 and Speen Street Corridor.
- Assist and represent the Town at public hearings by providing technical support.
- Provided technical support to the Town by performing all the traffic and transportation assignments such as traffic studies, safety improvements, streetscape design on brick pavers with traffic calming applications, parking evaluations/studies proposed by developer, traffic circulation at shopping center/malls, signage analysis and design, pedestrian signal design, traffic signal design, and provide peer review on traffic study prepared by developers.
- Provide construction services for the Route 135 Improvements project.

Brookline On-Call Engineering Services – Brookline, MA

- As Project Manager, responsible for managing all the assignments and represented the town at Public Hearings and make presentation to the public and the various Town Boards.
- Assist the Town in evaluating the existing town wide traffic calming devices.
- Involved in very controversial assignments related to parking demand and needs as a result of the Town new parking by-law requirements.
- Provided technical support to the various Boards and attend last minute public hearings, emergency traffic signal operational issues, performed traffic and transportation assignments such as traffic studies, safety improvements, streetscape design on brick pavers with traffic calming applications, parking evaluations/studies proposed by developer, signage analysis and design, pedestrian signal design and traffic signal design.
- Provide construction services for traffic signal improvements project.

On-Call City Traffic Engineer – Stamford, CT

- Served as City Traffic Engineer with responsibilities involving addressing and developing solutions for traffic related problems, solicited public participation process, quick response to letters from concerned citizens requesting traffic-engineering resolutions, conducting surveys related to street system conversion from two-way to one-way street, preparing traffic reports, supervising technical personnel collecting traffic data, and making presentations to the respective city traffic commissions and the Mayor's Office.
- Provided traffic engineering advice and assistance in the review of traffic signal plans, traffic signal inspections, and assisted in technical and administrative review of on-going and proposed traffic engineering projects throughout the City.
- Worked and coordinated transportation planning projects with the City's transportation planner.

Various Highway Interchange Projects - MassPort Authority

- As Principal Traffic Engineer, was concurrently involved in several complex Massport highway interchange projects including:
 - LAMP – Terminal Area Roadways redesign including several terminal studies and the Airside Connector Tunnel
 - D008A Interstate highway Preliminary Design
 - CA/T Coordination and Constructibility Review of Major Highway Interchange Project
 - Route 1A Connectors and Sumner Callahan highway connection Studies

Route 1A Connectors Interchange (Section D008A of the CA/THT), MassPort Authority – East Boston, MA

- Served as Principal Engineer providing Highway and traffic support for the development of preliminary designs that provided for the construction of a major highway interchange in a restricted site while maintaining existing traffic flows on the main approach to Logan Airport.
- Designed new guide signs included under this contract.
- Major considerations were given to impacts on MassPort operations

Old Colony Railroad Rehabilitation – Greenbush line, Middleborough & Plymouth Lines, Massachusetts Bay Transportation Authority (MBTA)

- Served as Lead Traffic Engineer for the design of traffic signals, pavement markings, and signing at various intersections along the Middleborough and Plymouth line.
- Prepared contract documents for traffic signal design and traffic management plans for construction activities related to new railroad bridges over waterways and highways, and the replacement and rehabilitation of 44 existing railroad bridges.
- Designed more than 50 railroad grade crossing intersections, which involved the analysis and mitigations of all the impacted intersections and roadway system along the Greenbush line.
- Attended extensively public meetings to help resolve any design issues with the community and worked closely with all the towns impacted by the railroad rehabilitation project.

Cross Harbor and Regional Transportation (CHART) Review of East Boston/Logan Airport Interchange, MassDOT and MassPort Authority – Boston, MA

- As Senior Project Traffic Engineer, responsible for assessing pre- and post-Ted Williams Tunnel traffic conditions around Logan Airport and South Boston.
- Provided recommendations for new airport access and internal circulation, as well as parking alternatives.
- Utilized transportation modeling, developed as part of the overall Ted Williams Tunnel project, in the assessment of existing and future traffic conditions in this complex highway environment.

Craigville Beach Road – Barnstable, MA

- Served as Traffic Engineer for assignments involving roadway and intersection improvements.
- Prepared quantity/cost estimates, grading, profile, and cross-section plans.

Commonwealth Avenue – Boston, MA

- Served as Traffic Engineer for project involving roadway design, data collection and verification.
- Also, prepared soil boring, utilities grading and profile plans.

Investors Management Group Traffic Impact Study – Peabody, MA

- Traffic Engineer for the preparation of traffic impact reports for a proposed convenience store, the White Hen Pantry, to be located in Beverly, Massachusetts.
- Report preparations involved performing traffic counts and traffic analyses.

Traffic Operations Study, MassDOT – Revere, MA

- Performed a comprehensive traffic operations study of 10 intersections located on the American Legion Highway system; designed improvements to upgrade operating conditions at these locations.

Route 3, MassDOT– Weymouth & Duxbury, MA

- Served as Traffic Engineer responsible for roadway design and quantity/cost estimates for 11 miles of state highway.
- Developed grading, profile, and cross-section plans.
- Analyzed traffic conditions at major ramp interchanges for a proposed widening (from four to six lanes) of an existing freeway.

Additional Training:

ITS Standard Overview, 2003

DMS ITS Standard, 2003

Traffic Signal Coordination Workshops, 2002

Certification

Certified IMSA (International Municipal Signal Association) Traffic Signal Inspector

Certified # SI-71973

Technical

“Analysis Techniques of Weaving Section Under Non-Freeway Conditions”

Paper

Published and Presented at the 1998 National Annual ITE Meeting

“An Evaluation of Signalized Intersection System Analysis Techniques”

Published and Presented at the 2000 National Annual ITE Meeting

Award

Anthony W. Sykes Award for Best Technical Paper, “An Evaluation of Signalized Intersection System Analysis Techniques”

Societies

ITS MA Chapter – Past President

ITE MA Chapter - Director

ITE New England Chapter – Chronicle Newsletter Editor, Technical Committee, Senior Director, Program Chair, Chair Student Chapter Liaison

ITE National – Member

Boston Society Of Civil Engineers – Member

Women’s Transportation Seminar Boston – Member, Mentoring Committee

**Randall L. Collins, Jr., RLA, ASLA
Deputy Project Manager****Experience:** 22 Years**Education:** B.S. Plant Science/Landscape Architecture,
University of Rhode Island, 1986**Registration:** Registered Landscape Architect, RI #271, NH #056, CT #1155
Low Impact Development Master Design Certification (CRMC)**Professional Overview**

Mr. Collins has 22 years of experience in landscape architecture. He has worked on projects throughout New England ranging from community parks to complex town center improvement projects. Mr. Collins has comprehensive experience working in the public sector. His responsibilities include the development of conceptual design ideas, public participation and outreach, coordination with local and state officials, presentations to historic commissions and other stakeholders, development of design details and the preparation of final design plans. Mr. Collins' involvement also includes construction supervision and oversight.

Starting early in his career, Randy's interest included developing alternative design approaches for sensitive environmental resources. In 1995 he received a certificate in Bioengineering Techniques for Stream Bank Protection and is a certified Low Impact Development Master Designer by the Rhode Island Coastal Resources Management Council (CRMC). Mr. Collins was responsible for the design of the first Urban Coastal Greenway approved following the CRMC's new guidelines.

Public Projects

Mr. Collins is Project Manager for all BETA's landscape architecture and urban planning projects. Additionally, he is an integral part of many of BETA's roadway and streetscape design projects. Specific areas of expertise include:

- Historic Downtown Revitalization
- Historic Landscapes Revitalization
- Urban Design and Streetscapes
- Urban Planning & Design
- Highway Landscapes
- Bicycle/Pedestrian Trails
- School and Municipal Site Design
- Public Parks and Open Spaces
- Aesthetic Improvements to Bridges
- Scenic Roadways
- Sports and Recreational Fields
- Waterfront Development

Washington/Central Street Corridor Streetscape Improvements - Wellesley, MA

- Provided landscape architectural services as part of the Washington Street/Central Street Road Corridor, major east/west link which includes three distinct commercial zones, passive and recreational facilities and residential districts.
- Developed techniques to improve pedestrian safety and enhance the visual character of the road corridor.
- Developed conceptual designs for public presentation and coordination meetings with Town officials.
- Developed final design plans that carefully balanced issues relating to traffic signal upgrade, pedestrian safety, accessibility, and improvements to the aesthetics of the streetscape with an effort to build upon rather than compromise the existing village character.
- Provided construction supervision including review of shop drawings and samples, and attendance at field meetings related to landscape issues.

North Lake Street Pedestrian and Bike Facility – Worcester, MA

- Prepared a Design Study report that looked into the feasibility of turning North Lake Street from two ways to one way and incorporating pedestrian/bike path along the banks of Lake Quinsigimound.
- Design concepts included parking lots, overlooks, canoe portage area, passive recreation, and rest stops.

Block Island Bike Path – Block Island, RI

- Developed early design concepts that became the initial phase of producing the Block Island Bikeway Feasibility Study.
- Design alternatives which were used to discuss the project with local and state agencies.
- Participated in public participation efforts to convey to the general public how the bikeway would fit into the unique character of the island.
- Design challenges included providing bicycle access to the North End Lighthouse along a stony beach, bicycle storage at the scenic overlooks, and using local materials.

Broad Rock Middle School Play Fields – South Kingstown, RI

- Prepared a master plan for a recreation facility to be used by both the new Middle School and the community including the following components: two baseball fields, lighted softball, multi-purpose/soccer field, tennis courts, walking trail, parking and concession stand.
- All of the ball field were designed with under drains to quickly remove stormwater.
- Prepared construction documents to implement the project in two phases.

Beaver Brook Sports Facility Renovations – Worcester, MA

- Designed sports field renovations that included a new football field (with bleachers and lights), two softball fields, baseball field, in-line hockey rink, paths and benches, ornamental lighting, park signs and plantings.
- Developed a naturalistic planting design for the banks of the newly day lighted Beaver Brook.
- Provided construction observation services.

Cass Park – Woonsocket, RI

- Prepared a master plan to update and restore the historic elements of this 100+ year old park and to provide new recreational opportunities including new basketball courts, volleyball, splashpark, playgrounds and baseball fields.
- Improved access to Cass Pond for fishing activities.
- Designed parking lot improvements and utility upgrades.

Ipswich River Walk – Ipswich, MA

- Provided conceptual designs for a riverwalk and pedestrian bridge located along the mill-fronted Ipswich River.
- Developed final design drawings for specialty paving, bridge and riverwalk railings, shade structures and ornamental lighting.
- High quality materials, the ability to be close to the water and accessibility to a long-forgotten riverfront helped to revitalize a severely constrained development area.
- The completion of this project brought people, activities and new life to the project area.

Pawtucket Riverfront Redevelopment – Pawtucket, RI

- Developed a master plan for the redevelopment of the City's riverfront, focusing on two parcels: the Town Landing and the State Pier.
- Participated in public meetings with the citizenry of Pawtucket as part of the visioning process.
- Focused on environmental sensitivity issues, safe public access, boat ramps, circulation for pedestrian and motorists and long-term economic impacts.



Port of Galilee Community Identification Signage & Visual Improvements - Narragansett, RI

- Developed an entrance sign to the Port of Galilee in Narragansett, Rhode Island - a fishing village that was in need of visual improvements and community identification.
- A “Welcome to the Port of Galilee” sign was created to pick up on the existing visual icons of the sea-side community, and was coordinated with a planting and hardscape scheme which provided additional visual excitement.

Affiliations

Member, American Society of Landscape Architects

**Frank J. Romeo, P.E.
Principal In Charge****Experience:** 38 Years**Registrations:** Professional Engineer - MA #35199, RI #4165, CT #14194**Education:** B.S. Civil Engineering - Northeastern University, 1974
M.S. Transportation Engineering - Northeastern University, 1977**Professional Overview**

Mr. Romeo has 38 years of experience in the fields of traffic engineering and transportation planning and design. During this time, he has been involved with a variety of major transportation projects where he has functioned as the Project Manager for highway, traffic, and transportation planning projects throughout New England. In that capacity, Mr. Romeo has served in a lead role in the public participation, coordination and consensus building efforts associated with several major public works projects throughout the region.

As President, Mr. Romeo has responsibilities related to the operations management of BETA, and provides technical review and project support on a variety of transportation design and master planning projects. He provides a wide range of expertise in all aspects of:

- Traffic engineering
- Highway and site design
- Impact mitigation
- Transportation planning
- Environmental documentation
- Consensus Development

Mr. Romeo has managed the planning and reconstruction of several major transportation systems for state and local agencies throughout New England. These projects include the following:

Washington and Central Streets Master Plan - Wellesley, MA

- Master Plan, final design, and construction of \$4 million roadway improvement project for Washington and Central Streets
- Lead consensus building effort involving numerous and diverse interest groups, in developing a balanced plan addressing traffic, pedestrian and Town character issues
- On-call traffic engineering services

Central Business District Master Plan & Final Design - Reading, MA

- Master Plan and Final Design of \$4 million traffic/pedestrian improvements within the Town's Central Business District
- Coordinated consensus building effort with Downtown Steering Committee resulting in a plan that addressed traffic, pedestrian, economic vitality, and historic character issues in the Downtown area

North End/Waterfront Citizens Advisory Committee Recommendations – Boston, MA (NEWCAC)

- Development of Surface Circulation Improvement Recommendations to MHD and City of Boston, in association with Central Artery construction
- Lead consensus building effort involving numerous and diverse interest groups

Massachusetts Highway Department (MassDOT)

- Exit 21 Interchange, Route 128

Town of Randolph, MA

- Town-wide Intersection Improvements

Town of Mansfield, MA

- Town-wide Intersection Improvements

Rhode Island Department of Transportation (RIDOT)

- Quonset Point/Davisville Internal Circulation Master Plan
- Statewide Safety Management System (SMS)
- Arterial Traffic Control Feasibility Study and Final Design
- Statewide Traffic Signal System Optimization
- State Traffic Commission Advice
- Reconstruction of Route 138; South Kingstown and Richmond, Rhode Island
- Reconstruction of Six Corners; East Providence, Rhode Island
- Kingston Station Intermodal Facility Design

Brown Street Transportation Improvement Project - North Kingstown, RI

- Brown Street Transportation Improvement Project

Kingston/URI Comprehensive Transportation Study – Kingston/West Kingston, RI

- Project entailed establishing framework for traffic management and traffic reduction strategies in and around URI and the villages of Kingston and West Kingston.
- Conducted extensive research of historical Studies completed in the project area
- Responsible for developing practicable immediate, short-term and long-term recommendations.
- Completed GIS-based build-out analysis of study area and coinciding traffic projections
- Created transportation model using SYNCHRO of the Route 138 Corridor and URI Loop Road
- Developed alternative routing plans
- Developed Implementation Plan

As Project Manager, he was involved in the preparation of corridor location studies and draft environmental impact statements for several highway projects that included public works projects and private developments. He was responsible for:

- Traffic studies, analysis and final design
- Geometric layout of roadways
- Traffic signal design
- Signing and pavement making layout
- Environmental impact evaluation
- Cost/benefit analysis
- All highway design aspects

He also provided expertise in the overall site planning, design and development of shopping centers, condominium developments, and residential/industrial subdivisions.

Memberships

National Society of Professional Engineers

Institute of Transportation Engineers

Philip F. Paradis, Jr., P.E., LEED

Hydraulics/Hydrology-Stormwater Management

Experience: Total: 24 Years / With BETA: 5 Years

Education: BSCE University of Lowell, 1987

Registrations: Professional Engineer: MA #37845 (1994)
LEED Accredited Professional



Mr. Paradis has 23 years of professional experience in the civil engineering field. He has been responsible for many diverse site development, transportation and utility projects for both public and private sectors.

He has designed stormwater management systems for land development, roadway improvement and a variety of other projects to meet the latest DEP Stormwater Standards, Wetlands Protection Act and EPA standards. He has a thorough understanding of latest Best Management Practices (BMP), Low Impact Design (LID) techniques, and environmental protection issues. He has recently designed systems and completed environmental permitting for projects in Billerica, Bellingham, Franklin and Framingham including evaluating existing systems and retrofitting BMPs such as deep sump catch basins, water quality structures, vegetated swales, infiltration systems, sediment forebays, extended detention basins and wetland basins. He has also inspected analyzed and designed drainage systems for recreational fields and parks, including Boston Common and Public Garden in Boston, Giles Road Fields in Milton and Walnut Hill Park in New Britton.

He is very familiar with the Town of Wellesley storm-water management practices. He prepared Notices of Intents for the Walnut Street Bridge and Weston Road Reconstruction projects and completed a peer review of the Notice of Intent for the proposed CVS site (980 Worcester Street) for the Wellesley Wetlands Protection Committee (WWPC). The review included riverfront area and buffer zone impacts, stormwater management, erosion control and contaminated soil issues for conformance with the Wetlands Protection Act, Wellesley Wetlands Bylaw, DEP Stormwater Management Standards and EPA NPDES Regulations.

Development Review, Wetlands Protection Committee, CVS Pharmacy - Wellesley, MA

- Reviewed notice of intent for the proposed construction of a new CVS Pharmacy adjacent to Bigelow Brook and Morse Pond and provided Wetland Protection Committee with comments and recommendations for compliance with the Wetlands Protection Acts and Wellesley Wetlands Bylaws.

Bestick Road Area Hydrologic/Hydraulic Study & Pilot Project - Braintree, MA

- Tasked to study the brook adjacent to Bestick Road to determine the causes of flooding, monitor area rainfall and flow within the brook, design and construct the pilot project, a dike to control peak rate of runoff to reduce flooding impacts.
- Once completed, monitored brook and pilot project improvements for one year.

Peer Review Services for the Planning Board - Westwood, MA

- Provided peer review services for roadway, stormwater, and wastewater systems for the proposed Westwood Station Redevelopment Project. This multi-use project included 145 Acres of land, 4.5 million sq. ft. development, including 1,000 residential units, 1.2 million sq. ft. retail space, 1.8 million sq. ft. office space and two hotels. It required the construction/reconstruction of two highway interchange ramps and created six new signalized intersections.

Boston Common and Public Garden Utilities Report, Boston Parks & Recreation - Boston, MA

- Project Manager to compile a master utilities plan for the Boston Common and Public Garden, field inspect structures for condition and function, and analyzing the hydrology of the existing drainage systems for future capacity upgrades.

Flax Pond Park Improvements – Lynn, MA

- Provided engineering support and bid document services for improvements to the Flax Pond Park, including upgrading play equipment, refurbishing the basketball and tennis courts and adding a splash park, aerator, gazebo and replacing pathways and guardrail. The project required compiling documentation and submitting notice of intent to the Lynn Conservation Commission.

Walnut Hill Park- New Britain, CT

- Responsible for evaluating the hydrology of the existing 73 acre park.
- Poor soil, grading and drainage system maintenance frequently left the fields un-useable.
- Fields were regraded, new drainage swales, structures, pipes and detention basin was design to collect, convey and detain stormwater on site.
- Stormwater runoff and system component sizing was modeled using HydroCAD.

Five Corners Intersection Improvements - Lancaster, MA

- As part of this intersection improvement project, stormwater management system improvements were incorporated to bring it in compliance with the Stormwater Standards. The design incorporated dealing ACEC, flood plain, high groundwater and poor soil condition issues. LID practices including country drainage and treatment swales were utilized in the design.

Kendrick Street Bridge – Needham/Newton, MA

- Tasked by the Town of Needham and City of Newton to conduct a scour analysis for the Kendrick Street Bridge over the Charles River. FEMA Flood Insurance Study and inspections were evaluated, soil samples and cross sections of the river were taken and information used to develop a HEC-RAS model to evaluate impacts of the 50 and 100 year storm events. Findings and recommendation were issued in a report to the Town/City.

Farmington Ave. Sewer Separation Project, Green Analysis Evaluation – Hartford, CT

- Tasked by the city to evaluate the inclusion of Low Impact Development (LID) Practices into the sewer separation project to provide a reduction of stormwater runoff and improve the quality of runoff to the city systems. The report discussed several LID practices including disconnection of impervious areas, roof runoff recharge system, impervious pavement, tree filter boxes, rain gardens and treatment swales and evaluated them for appropriateness, costs, drainage infrastructure reductions, impacts to residential properties and maintenance considerations.

Cogger and High Street Flood Study – Hampton, NH

- Tasked by the Town to evaluate flooding and stormwater erosion problems in three different locations due to the large storm events in March 2010. Extensive site investigations, interviews with public official and local residences, evaluation of area mapping and survey of existing drainage systems were conducted to identify issues and possible improvements. Report to Town listed recommendations to study further and considerations for development projects in these areas.

Stormwater Management Consulting for Pavement Rehabilitation Projects – Billerica, MA

- Tasked by the Town to provide stormwater management improvement recommendations for pavement rehabilitation projects in the Town. Responsibilities include observing sites, existing drainage systems, and adjacent sensitive resources; researching available town records and public environmental information and, providing recommendations to meet the stormwater management regulations to the maximum extent practicable. Recommendations include providing deep sump catchbasins, water quality structures, infiltration trenches and outlet sediment traps.

DPW Yard Stormwater Management Improvements - Needham, MA

- Tasked by the Needham Conservation Commission to study the DPW yard for alternatives for construct low impact designs and best management practices to reduce contaminants in stormwater runoff from entering the Charles River.
- Design included deep sump catchbasins, swales and water quality inlets.
- Notice of intent was filed and construction documents were developed for public bid.

Rosemary Lake Stormwater Management Improvements - Needham, MA

- Tasked by the Needham Conservation Commission to study the Town pool parking area adjacent to Rosemary Lake alternatives for construct low impact designs and best management practices to reduce contaminants in stormwater runoff from entering the Lake.
- Design included pavement reduction, infiltration basins, swales and water quality inlets.
- Notice of intent was filed and construction documents developed for public bid.

Woodland Village Trail Improvements - Natick MA

- Tasked by the Natick Planning Board, in response to local residents, to investigate current trail condition and provide plans and details for improvements.
- Design included installation of fencing, correcting drainage and erosion problems and resurfacing trail.

Sportsman Pond Water Quality Improvements - Needham, MA

- Tasked by the Needham Engineering Department to study the Sportsman Pond area for opportunities to construct low impact designs and best management practices to reduce contaminants and increase oxygen levels in stormwater runoff from entering the Pond.
- Design included water quality inlets and drop manholes.
- Construction documents were developed for public bid.

Stormwater Improvement Plan Review for Chubb Brook - Beverly, MA

- Reviewed proposed stormwater improvements plan to control flooding along Chubb Brook during large storm events and provide recommendations to the Town Engineer and DPW Director.

Societies

Boston Society of Civil Engineers Section (BSCES)

American Society of Civil Engineers (ASCE)

Darshan N. Jhaveri, P.E.

Civil Design

Experience: 20 Years

Education: M.S.C.E. – Drexel University (1992)
B.S.C.E. – L.D. College of Engineering, India (1990)

Registrations: Professional Engineer – MA #41441



Professional Overview

Mr. Jhaveri has 20 years of experience in the transportation / civil engineering fields and being part of an integrated design team. He has worked extensively with our Landscape Architects to develop public spaces and with our drainage experts to ensure the functionality of the design. Darshan has extensive experience in providing technical support and in the preparation of plans, specifications and cost estimates for projects for various Massachusetts communities. He is very familiar with the Town of Wellesley having provided his civil engineering expertise on many projects for the Town, such as the Linden Street and Weston Road reconstruction roadway improvements and the intersection improvements of Cedar / Walnut Street intersection. **His experience and familiarity with the Town of Wellesley's previous assignments will help expedite future projects efficiently.**

Reconstruction of Weston Road – Wellesley, MA

- Prepare final design plans and bid documents for the project involving 1.0 mile of roadway reconstruction from Route 9 to Linden Street involving pavement reclamation, upgrading drainage system, curbing, sidewalks, new pedestrian traffic signal installation at two locations and traffic management.

Reconstruction of Pulaski Boulevard – Bellingham, MA

- Prepared PS&Es documents for the project involving 2.3 mile of roadway reconstruction from Franklin town line to Crooks Corner, pavement reclamation, new closed drainage system, detention basin installation, sidewalks, turn lanes and new traffic signal installation at two locations.

Town Center Improvements – Bellingham, MA

- Prepared final plans for the project involving town center interim improvements, sidewalks, turn lanes and upgrading traffic signal at two locations. Also involve in conceptual design of Full Built Town Center project involving in major widening of addition of two travel lane and signal upgrade and channelization.

Reconstruction of Allen Road – Billerica, MA

- Currently preparing 100% design plans the project, involving full depth reconstruction, new closed drainage system, sidewalks, turn lanes and new traffic signal installation, right-of-way alterations and stormwater management.

Reconstruction of Concord Road – Billerica, MA

- Prepared PS&Es documents for the project involving full depth reconstruction, new closed drainage system, sidewalks, turn lanes, installation of new traffic signals, right-of-way alterations and stormwater management.

Reconstruction of Neponset Street – Canton, MA

- Prepared PS&Es documents for the project. The work consisted of roadway reconstruction, pavement reclamation, drainage improvements, granite curbing, new concrete sidewalks, wheelchair ramps, intersection improvements, installation of traffic signals at two intersections, coordination of signals, pavement markings, signing and landscaping.

Dedham Square Improvements – Dedham, MA

- Currently preparing 100% design for the project. The work consisted of full depth construction, drainage improvements, granite curb, new concrete sidewalk, installation of traffic signals at two locations, coordination of signals, pavement markings and signing. Also involved in streetscape, street lighting, and landscaping, parking layouts in Dedham Square.

Reconstruction of Lakeview Avenue – Dracut, MA

- Prepared PS&Es documents for the project involving reconstruction, drainage improvements, granite curbing, concrete sidewalks, wheelchair ramps, intersection improvements, installation of traffic signals at three locations, coordination of signals, pavement markings and signing.

Five Corners Improvements – Lancaster, MA

- Prepared 75% design for the project involving cold planing and overlay, full depth construction, minor geometric modification, signage, pavement markings and an upgraded traffic control beacon at the intersection. Also included is the relocation of Bolton Road to intersect Center Bridge Road about 450 feet north of the Five Corners which will remove one leg of the five legged intersection.

Reconstruction of Main Street – Segment ‘A’ – Melrose, MA

- Prepared final PS&Es documents for the project involving widening reconstruction, drainage improvements, granite curbing, concrete sidewalks, wheelchair ramps, intersection improvements, installation of traffic signals at three locations, coordination of signals, pavement markings and signing. Also preparing taking and easement plans.

Reconstruction of Main Street – Segment ‘B’ – Melrose, MA

- Prepared 100% design submission for the project involving reconstruction, drainage improvements, granite curbing, concrete sidewalks, wheelchair ramps, intersection improvements, installation of traffic signals at six locations, coordination of signals, pavement markings and signing.

Reconstruction of Main Street – Reading, MA

- Prepared PS&Es documents for the project. The work consisted of full depth construction, widening, drainage improvements, granite curb, new concrete sidewalk, installation of traffic signals at five locations, coordination of signals, pavement markings and signing. Also involved in streetscape, street lighting, and landscaping, parking layouts in town common.

Reconstruction of Salem Street – Wakefield, MA

- Prepared PS&Es documents for the project involving widening reconstruction, drainage improvements, granite curbing, concrete sidewalks, wheelchair ramps, intersection improvements, installation of traffic signals at three locations, coordination of signals, pavement markings and signing. Also preparing taking and easement plans.

Reconstruction of University Avenue – Westwood, MA

- Performed final plans specifications and estimates (PS&Es) involving roadway reconstruction, signalization, new sidewalks with handicap access and drainage improvements. The project is in an industrial park and a section of University Avenue is state highway. Also prepared taking and easement plans.



Bridge Rehabilitation Projects

Mr. Jhaveri has been working on variety of MassDOT footprint bridge projects and accelerated bridge program with the structural group. The works include highway design; cost estimate, Traffic Management plans for staging work and specifications.

Mr. Jhaveri is currently working on MassDOT traffic and safety improvements assignments on High Crash Locations in various Southern Massachusetts Towns.

Associations

Institute of Transportation Engineers – Associate Member

American Society of Civil Engineers - Member

Christopher W. Jones, P.E. Structures-Preservation

- Experience:** 19 Years
- Education:** B.S. Civil Engineering, Worcester Polytechnic Institute (1992)
- Registrations:** Professional Engineer - MA #41025, CT #23720, RI #8367
- Certifications:** FHWA–NHI Safety Inspection of In-Service Bridges



Professional Overview

Mr. Jones has 19 years of experience in the civil engineering field, specializing in structural engineering. Chris has worked almost exclusively on public sector projects for both state agencies and municipalities. He has been involved in the inspection, design, and construction of a wide range of structure types including local culverts, vehicles and pedestrian bridges, historic bridges, wastewater treatment structures, retaining walls, and dams. His projects have included entirely new structures, as well as both major and minor rehabilitations/restorations. **He was the project manager of the DCR project to rehabilitate the historic Cheney Bridge located on the Dover / Wellesley Town line.** Chris is intimately familiar with preparing structural engineering projects for the public bid process.

Chris has been involved with the Town of Wellesley on a project to enhance the Wales Street Bridge. He was also involved in the Elm Bank Bridge Project and the review of the structural components of traffic signal Mast Arms for the Wellesley traffic signal projects.

Cheney Bridge over Charles River - Dover/Wellesley, MA (MADCR)

- Project Manager for the restoration of this historic three-hinged arch truss bridge constructed in 1897. Metals are cast steel and wrought iron. Restored components include the arch, bridge rail, and ornamental lighting.

Wales Street Bridge over Charles River - Wellesley/Newton, MA

- Project Manager for replacement of the bridge railing of this stone-faced concrete arch.

Route 112 Bridge over Kearney Brook - Worthington, MA (MassDOT)

- Performed independent peer review of final design calculations, plans, and specifications for this 62-foot single span bridge. The bridge utilized newly-developed precast concrete elements, including NEXT beams, abutments, and wingwalls.

Fountain Street Bridge over MBTA/CSX Railroads - Framingham, MA (MassDOT)

- Performed independent peer review of plans and specifications for the superstructure replacement of this 83-foot single-span bridge.

Interstate 95 Bridge over Ten Rod Road - Exeter, RI (RIDOT)

- Project Manager for the rehabilitation of these twin 76-foot single-span bridges carrying I-95. The rehabilitation includes widening of the bridges, replacement of the concrete decks using phased construction, repairs to the steel beams, and concrete substructure repairs.

Providence Highway Bridge over Mother Brook - Dedham, MA (MassDOT)

- Project Manager for the replacement of this 95-foot four-span bridge with a new single-span structure. The replacement bridge superstructure will be constructed of prestressed concrete box beams, and will be

constructed in phases in order to maintain four lanes of traffic during construction. New abutments will be constructed on steel H-piles.

Bridge/Culvert Management Plan - North Attleborough, MA

- Project Manager for the program to update the ten-year-old Management Plan for the Town's 19 town-owned bridges and culverts. The program included site inspections, documentation, repair recommendations and prioritizations, and budgetary cost estimates.

Bowker Overpass, Ramp H - Boston, MA (MADCR)

- Project Manager for the rehabilitation of this curved 6-span ramp structure carrying traffic over and onto Storrow Drive Westbound. Program included phased construction for the replacement of the concrete bridge deck, steel beam repairs, repainting, bearing rehabilitation, lighting system replacement, and substructure reinforcement.

Old Pleasant Street Bridge over Housatonic River - Lee, MA (MassDOT)

- Project Manager for the replacement of this 82-foot two-span bridge. Replacement bridge consisted of spread prestressed concrete box beams and a reinforced concrete deck with a single span of 100 feet. New abutments were placed behind the existing abutments and supported by steel H-piles.

Interstate 95 Bridge over Weaver Hill Road - West Greenwich, RI (RIDOT)

- Project Manager for the rehabilitation of these twin 86-foot single-span bridges carrying I-95. The rehabilitation included widening of the bridges, replacement of the concrete decks using phased construction, repairs to the steel beams, and concrete substructure repairs.

Sleepy Hollow Road Bridge over CSX Railroad - Richmond, MA (MassDOT)

- Project Manager for the rehabilitation of this 46-foot single-span bridge. The design consisted of a superstructure replacement with prestressed concrete butted box beams supported on the existing abutments, which were rehabilitated and raised in order to increase clearance over the railroad tracks.

Whitehead Road Bridge over Cohasset Harbor - Cohasset, MA (JSL Engineering, Inc.)

- Performed peer review of design calculations and drawings for this 75-foot single-span bridge. The bridge superstructure was of a unique construction — custom butted prestressed concrete box beams with depths tapered from 80" at the ends to 40" at midspan to mimic the appearance of an arch.

Fisher Street Bridge over Ten Mile River - North Attleborough, MA

- Project Manager for the replacement of this 13-foot single-span bridge. The design consisted of a precast concrete box culvert with custom curved end posts for the bridge railing.

Belmont Street Bridge over Beaver Brook - East Bridgewater, MA

- Performed an emergency inspection of this corrugated metal pipe culvert which was experiencing failure of the surrounding roadway subgrade, provided recommendations for immediate measures.

Bay Street Bridge over Mill River - Taunton, MA

- Detailed emergency concrete deck and beam repairs, assisted the City with emergency procurement of a contractor, provided on-site inspection during implementation of repairs.

Box Mill Road Bridge over Elizabeth Brook - Stow, MA (MassDOT)

- Project Manager for the type evaluation for the replacement of this 4-span clapper stone bridge constructed circa 1850.

Franklin Street Bridge over Sudbury River - Framingham, MA

- Project Engineer for the rehabilitation design of this reinforced concrete arch bridge. Repairs included restoration of the concrete and replacement of the bridge railing to meet current code requirements.

Route 112 Bridge over Westfield River and CSX Railroad - Huntington, MA (MassDOT)

- Project Manager for the inspection, evaluation, and load rating for this 11-span structure, including 180-foot steel arch main span. Supervised the development of a sophisticated finite element model of the entire structure in order to conduct a seismic analysis.

Interstate 95 Bridge over Robin Hollow Road - West Greenwich, RI (RIDOT)

- Project Manager for the rehabilitation of these twin 65-foot single-span bridges carrying I-95. The rehabilitation included widening of the bridges, complete replacement of the superstructures with prestressed concrete AASHTO girders and concrete decks using phased construction.

Access Road Bridge over Colony Place - Plymouth, MA (Saxon Real Estate Partners, LLC)

- Performed peer review of design calculations and drawings for this 102-foot single span bridge prefabricated steel truss bridge.

Hospital Road Bridge over Nashua River - Harvard/Shirley, MA (MassDOT)

- Project Manager for the replacement of this 217-foot five-span bridge. Replacement bridge was a three-span structure consisting of spread prestressed concrete box beams. The substructures were supported on drilled concrete shafts.

Central Street Bridge over Queset Brook - Easton, MA (MassDOT)

- Project Manager for the replacement of two adjacent bridges: a two-span structure with a length of 22 feet and a three-span structure with a length of 37 feet. Project utilized concrete box culverts.

Salem End Road Bridge over Stearns Reservoir - Framingham, MA

- Project Manager responsible for the inspection and evaluation of this 30-foot single span reinforced concrete beam-and-slab bridge, whose sidewalks had been closed because of extensive deterioration.

Pratt Pond Dam Improvements - Upton, MA

- Responsible for the design of a new concrete spillway with flashboard system.

Mill Pond Dam Improvements - Mansfield, MA

- Responsible for the design of two new concrete spillways.

Sudbury Reservoir Dam Spillway - Southborough, MA (MADEM)

- Mapped joint failures in 65-foot-high granite block spillway walls. Designed repair methods.

Alan D. Hanscom, LSP

Soil Sediment/Characterization

Experience: 35 Years

Education B.S. Civil Engineering, University of Maine (1976)

Registration Licensed Site Professional: MA #2152



Professional Overview

As an Associate at BETA Group, Inc., Mr. Hanscom is involved with the firm's most challenging and critical projects involving environmental permitting, building demolition and environmental contamination. He has comprehensive knowledge and understanding of federal, state, and local environmental laws and regulations in addressing environmental issues for a variety of clients. His clients have included public and municipal agencies, developers, utilities, manufacturers and other private sector clients.

Mr. Hanscom has a very broad-based range of experience which includes municipal and industrial wastewater collection and treatment, hydrogeology, hazardous materials assessment and management, site investigations and remedial design of soil, groundwater and vapor phase contamination.

Over the course of his career, Mr. Hanscom has also provided litigation support services for projects involving an unpermitted landfill, release of oil and corresponding response actions, and cleanup of petroleum compounds, heavy metals and solvents at a truck maintenance facility. Services have included depositions, fact and expert testimony, and related support services. His project experience includes:

- Environmental Permitting
- Environmental Site Assessment
- Building Demolition
- Hazardous Materials Management
- Regulated building materials management
- Remedial Action Assessment and Planning
- Remedial Design of Soil, Groundwater and Vapor Phase Contamination Treatment Systems

Wellesley MLP/DPW - Wellesley, MA

- Implemented a comprehensive soil sampling program in compliance with EPA Toxic Substances Control Act (TSCA).
- Designed and engineered barrier to prevent exposure to PCB-contaminated soil.
- Prepared contract documents and provided bid assistance services for excavation and off-site management of contaminated materials.
- Coordinated removal of gasoline UST discovered at the site and completed a Response Action Outcome report for the UST release.

Salem Transfer Station – Salem, MA

- Coordination and preparation of an expanded Environmental Notification Form, supported by air quality, noise and traffic impact studies by various Specialty Consultants.
- Preparation of a Notice of Intent under the Wetlands Protection Act (WPA), including presentation of the project at the local Conservation Commission public hearings.
- Coordination and preparation of landfill closure and site grading plans, including storm water quality management and O&M plans required by the Conservation Commission.

Keith Middle School –New Bedford, MA

- Environmental Permitting, design and oversight of environmental response actions associated with site selection, design and oversight of construction of a \$70Million Middle School.
- Preparation of a Notice of Intent under the Wetlands Protection Act (WPA), including presentation of the project at the local Conservation Commission public hearings.
- Prepared and submitted detailed Work Plan in accordance with requirements under the Toxic Substances Control Act (TSCA) related to the presence of polynuclear aromatic hydrocarbons (PCBs).
- Provided oversight and documentation of all environmental response actions associated with soil stabilization, capping and off-site management.
- Performed all permitting associated with pumping, treatment and surface discharge of groundwater.
- Designed and provided oversight of \$0.75 Million wetlands remediation project.

Gallo Construction –Worcester, MA

- Performed site review of various development constraints for 50,000-ton Salt Storage facility.
- Developed conceptual site plan for review with City Permitting Departments.
- Designed innovative collection system for storm water collection and re-use as brine for stow and ice control.

Massachusetts Department of Environmental Management, Jug End Property - Egremont, MA

- Completed the design and construction phase services associated with underground storage tank removals, contaminated soils management, stabilization of lead contamination at a former skeet range, management of hazardous wastes, closure of landfills and lagoons, and demolition of thirty-seven (37) buildings.
- Project included extensive environmental permitting, archaeology, historic structures, and public participation.

EPA Brownfields Initiative - Chicopee Pilot Project, Former Bay State Wire - Chicopee, MA

- As part of an EPA-funded Brownfields Pilot Project, developed a model for the City of Chicopee to use for future Brownfields work.
- Public involvement activities were undertaken including public meetings and newsletter mailings.
- Three contract documents were prepared to address underground storage tank removals, contaminated soil management, management of containers of oils and hazardous materials, RCRA-hazardous lead-based paint and asbestos abatement, and building demolition.
- Due to large quantities of building demolition debris and regulated wastes, cost effective reuse and recycling alternatives were evaluated and implemented.

Phase IV MCP Pan Am/Van Dusen Fuel Farm, Logan Airport - Boston, MA

- Developed a Phase IV Remedy Implementation Plan under the MCP regulations.
- Provided Licensed Site Professional (LSP) services and environmental engineering services during the Central Artery contracts that will remove the tanks and contamination. Ultimately, these services will lead to closure of all required MCP response actions at the Fuel Farm, including the issuing of a Response Action Outcome Statement.

21E Environmental Assessments and MCP Immediate Response Actions - (MassDOT)

- Provided environmental consulting and Licensed Site Professional services for environmental investigations at eleven MassDOT facilities and Immediate Response actions at over 30 other MassDOT facilities. The US EPA and Massachusetts Department of Environmental Protection (DEP) issued a Consent Order requiring the MassDOT to conduct environmental investigations of all of their 139 facilities to determine if a release of oil or hazardous materials to the environment has occurred. These investigations are being conducted in accordance with Massachusetts General Laws Chapter 21E and the Massachusetts Contingency Plan (MCP) regulations.

U.S. Fish and Wildlife Service – Newburyport, MA

- Responsible for the development and overall coordination of preliminary and comprehensive site assessment activities, detailed evaluation of soil remediation alternatives and design of remedial measures for the U.S. Fish and Wildlife Service at the Parker River National Wildlife Refuge in Newburyport, MA.
- The project was performed under an MCP Waiver of Approach and included extensive site investigations, remote aerial sensing of PCB-impacted soil utilizing infrared and multispectral technology, development and

implementation of cost-effective short term measures in lieu of regulatory directive, development and execution of an extensive public information program, detailed evaluation of contaminated soil management options, and design of a comprehensive soil management program which included in-situ characterization, segregation, on-site stabilization, on-site treatment/disposal, etc., and all related documentation requirements.

Arsenal Street Access, Partnership - Watertown, MA

- Responsible for overseeing environmental assessment and response activities on a parking lot expansion project in Watertown.
- Services included a pre-acquisition site assessment, development of an estimate of probable remediation costs, all phases of the MCP compliance process dealing with detection, reporting, and remedial action associated with asbestos containing demolition debris, removal of abandoned rail lines, environmental sampling and analyses, and all associated LSP services.
- Specific MCP-related submittals include Release Notification Forms, a Release Abatement Measure (RAM) Plan, and a RAM Status Report.

Talleyrand Chemical Facility Demolition - New Bedford, MA

- Provided environmental engineering services related to demolition and cleanup of buildings and debris at the former Talleyrand Chemicals facility.
- Supervised the removal three fuel oil USTs and two liquid vinyl chloride monomer USTs,
- Provided field services to supervise the contractor's work, and collected confirmatory samples and prepared final UST closure documentation.
- Supervised the removal of RCRA Hazardous sludge from on-site settling basins. The sludge, which contained elevated levels of vinyl chloride, trichloro-ethylene (TCE), and other chlorinated solvents, was shipped under a DEP Bill-Of Lading to an off-site disposal facility.
- Oversaw the on-site treatment of VOC-impacted water within the settling basins. The impacted water was passed through a carbon filter and a subsequently discharged to the municipal sewer system. Analytical results indicated that the treatment process removed 100% of the VOC compounds.

Industrial Heat Treatment Environmental Site Assessment - Quincy, MA

- Conducted an Environmental Site Assessment (ESA) of a metal treating facility in Quincy, Massachusetts to identify potential environmental liabilities associated with a property transfer.
- Based on the findings of the ESA, recommended a Supplemental ESA including soil and groundwater sampling was performed to investigate the areas of concern identified during the ESA. The subsurface investigations resulted in the discovery of soil and groundwater contaminated by chlorinated solvents and petroleum products.
- Prepared a conceptual remediation plan and cost estimate for a vapor extraction groundwater remediation system to address the chlorinated solvent contaminated soil and groundwater.
- Prepared a Release Abatement Measure (RAM) Plan approved by the Massachusetts Department of Environmental Protection (MADEP) to address the petroleum contaminated soil and groundwater encountered at the former gasoline service station.
- Coordinated design and operation of ozone sparging system to address residual concentrations of solvents in soil.

Urquhart School - Beverly, MA

- Managed the assessment, characterization, and construction phase services related to remedial levels of lead arsenate and DDT pesticides at former orchid growing operations.
- The project included extensive characterization of pesticide-impacted soil, coordination of off-site disposal, preparation of bid documents, public participation and contract administration.

Environmental Site Assessments, Former Conway Bedding - Chicopee, MA

- Site assessment to identify recognized environmental conditions for overt evidence of a release or threat of release of oil and/or hazardous materials.

- Additional activities included federal, state, and local records review and interviews with people knowledgeable about the site.
- Environmental concerns were identified consisting of potential asbestos-containing materials and lead-based paint, polychlorinated biphenyl containing equipment, underground storage tanks, and floor drains.

Limited and Comprehensive Site Assessments, ICI Resins U.S.

- Project Manager for the investigation and assessment of this hazardous waste site (solvents) and compliance with regulatory requirements. Responsible for the coordination of the site investigation and the development of the Preliminary Assessment and the Limited Site Investigation Reports.
- Supervised the site classification and coordinated the successful application for Waiver of Approvals from the Massachusetts DEP.
- Responsible for the completion of the Comprehensive Risk Assessment, including fate and transport evaluation, Quantitative Risk Assessment, and the development of the conceptual remediation program and goals.

U.S. Postal Service, Northeast Region

- Served as Program Manager for a three (3) year, Indefinite Quantity, Environmental Services contract for the U.S. Postal Service covering the six (6) New England states and has included asbestos inspections, environmental investigations, contaminated soils management, UST closures, and environmental compliance auditing.
- Participated in a recent Northeast Regional training seminar to outline notification and record keeping requirements under SARA Title III.

New Harbor Partners, Inc.

- Developed an extensive environmental site assessment program of a 7.5 acre property formerly used as a sludge processing plant. Significant environmental impact due to the release of polynuclear aromatic hydrocarbons (PNA's) was discovered, along with elevated levels of other volatile organic compounds at several locations on the property.
- Other activities at the site included the delineation of the limits of fill areas, preliminary assessment of probable remedial action activities, and development of remedial cost estimates.

Hazardous Materials Investigation, New Hampshire Department of Transportation, Various Locations (NHDOT)

- Responsible for technical and regulatory consultation for various NHDOT projects.
- Studies involved all phases of investigations from initial site assessments through preliminary and detailed site investigation and remedial clean-up.

Pre-Acquisition Environmental Site Assessment, Conrail Right-of-Way (MBTA)

- Provided environmental services for the investigation of approximately 29 miles of Conrail right-of-way (ROW), with respect to the release or threat of release of PCBs, oil or hazardous materials (OHM) on or adjacent to the ROW. The purpose of the investigation was to identify recognized environmental conditions on or adjacent to the ROW including the environmental liabilities associated with the proposed property acquisition and construction of a commuter rail along the existing Conrail ROW.
- Coordinated with the MBTA and Conrail to provide a final report which addressed the needs of the overall project.
- Provided environmental services for the investigation of five proposed commuter rail station locations.
- Prepared the final site assessment report and provided the MBTA with recommendations for additional studies, based upon the observations made during this investigation.
- Identified concerns at the station locations directly relating to the proposed property acquisition, potential environmental liabilities, and the health and safety of workers during future construction activities.

Societies

Water Environment Federation
Associated Industries of Massachusetts
Licensed Site Professional Association

Jaklyn C. Centracchio

Traffic Evaluations

Experience: 9 Years

Education: B.S., Civil/Environmental Engineering, University of Rhode Island, Kingston (2002)



Professional Overview

Ms. Centracchio has nine years experience in traffic engineering, and has developed a diverse background in many phases of transportation engineering. Her background includes traffic analysis, traffic calming, traffic design, and design for roadway. She is proficient in VISSIM, HCS, SYNCHRO, AutoCAD, Petra, and Quest applications. Her experience further includes:

- Conceptual Design Reports
- Traffic Impact Studies
- Functional Design Reports
- Traffic Calming Studies
- Parking and Traffic Circulation Studies and Physical Alteration Permits
- Construction Inspection and Management
- Preparation of Environmental Notification Forms

On-Call Traffic Engineering Services - Wellesley, MA

- Studied several areas of Town and developed Traffic Calming Measures

Traffic Volume Comparison – Wellesley, MA

- Studied traffic volume.

Weston Road Reconstruction – Wellesley, MA

- Reviewed & revised pavement markings and signing along the one mile reconstruction of Weston Road.
- Participated in design of two pedestrian signals along corridor.
- Worked on the estimate for the traffic components of the project.

Washington Street/Central Street Traffic Signal System Improvements – Wellesley, MA

- Assisted in the development of Traffic Signal Plans for the installation of video detection at eight intersections.

Wellesley High School – Wellesley, MA

- Conducted peer review of the transportation study and project of significant impact study for the proposed Wellesley High School.

27 Washington Street – Wellesley, MA

Conducted peer review of the project of significant impact study for the proposed mixed-use development

Route 9&27 Interchange Improvements - Town of Natick, MA

- Analyzed Interchange using VISSIM simulation software
- Prepared Functional Design Report



University Avenue -Lowell, MA

- Prepared Traffic Signal, Pavement Marking & Traffic Management Plans for the 25%, 75% and 100% Submission

Hancock Street & Squantum Street - Town of Quincy, MA

- Prepared Traffic Signal Plans for 25% Submission

Route 27 Improvements - Town of Natick, MA

- Prepared Traffic Signal Plans for 25% Submission

Children’s Brookline Place – Brookline, MA

- Conducted peer review of the traffic impact study for the proposed 252,000 square-foot Children’s Hospital building at 2-4 Brookline Place.
- Reviewed the parking study.

111 Boylston Street – Brookline, MA

- Conducted peer review of the traffic impact and access study for the proposed 70,000 square-foot medical-office and retail space.
- Reviewed the parking study.

888 Commonwealth Avenue – Brookline, MA

- Conducted peer review of the traffic impact and access study for the proposed renovation and addition to the existing site

The Learning Center Peer Review – Billerica, MA

- Conducted peer review of the traffic impact and access study for the proposed child care facility

Needham Downtown Study – Needham, MA

- Performed SYNCHRO analyses for existing, no-build, full-build and 30% build traffic volume scenarios.

Billerica Mall Peer Review – Billerica, MA

- Conducted peer review of the traffic impact and access study for the proposed Billerica Mall.

Societies:

Women’s Transportation Seminar
Institute of Transportation Engineers

Technical Competencies:

VISSIM, HCS, SYNCHRO, AutoCAD, Petra, Quest

Merrick Turner, P.E.

Cost Estimating

Experience: 26 Years

Education B.S. Civil Engineering, University of Surrey, England, 1985

Registration Professional Engineer – MA #38811(1996)



Professional Overview

Mr. Turner has 26 years of experience in the civil engineering field, specializing in civil, transportation and environmental engineering. He is responsible for the planning and design of projects for BETA's state, municipal and private clients.

As an Associate at BETA, Mr. Turner coordinates and expedites a variety of transportation facility improvement projects and large-scale civil engineering projects. In addition to project coordination and expediting responsibilities, he has been responsible for the following technical tasks:

- Project Management and Design of a broad range of transportation facilities
- Design on Interchanges, Arterials, Collector and Local Roadways
- Coordination and design of utility relocations
- Site and grading design
- Storm water drainage design
- Right-of-way coordination and document preparation
- Topographical and property survey
- Construction inspection
- Cost and quantity estimation
- Specification writing
- Quality Assurance/Quality Control review
- Contract Document and Proposal preparation

Commonwealth Avenue - Boston, MA

- Following completion of the highly acclaimed improvements of Commonwealth Avenue Master Plan Phase 1 (Kenmore Square to the BU Bridge), BETA Group was retained to design Phase 2 (BU Bridge to Packard's Corner). Phase 2 represents an opportunity to continue the restoration of Commonwealth Avenue, as one of the grand gateway boulevards to Boston.
- As Project Manager Merrick is responsible for leadership of a multi-discipline design team including roadway, traffic, lighting, drainage, utility and streetscape design.
- Today, Commonwealth Avenue lacks the orderly accommodation of the multi-modal demands on the roadway. The proposed improvements are intended to address those needs and improve operations and safety of vehicles, bicyclists, the MBTA Green Line trolleys, and pedestrians.
- An extensive streetscape program is proposed to transform the visual environment. The program will include planting of over 200 trees, brick inlay treatments on sidewalks, period lighting, planters and street furnishings. Key upgrades include the reconstruction of sidewalks and street crossings to provide complete ADA compliance.
- Also included is the upgrade of existing traffic signals at four locations. Today, there is significant bicycle activity along Commonwealth Avenue without any formal accommodation. Bicycle operations will be accommodated via bike lanes, thereby extending the bike lane facilities recently provided in Phase 1.
- To date the project has requirement intensive coordination with a variety of City Agencies and Key abutters including Boston University and the Town of Brookline.

Peer Review Services – Statewide, MA (MassDOT)

- As Project Manager for peer review services to MassDOT, Merrick has successfully completed more than 12 assignments for the state.
- Leading a multi-disciplined team Merrick is responsible for advising MassDOT on all aspects of the completeness and readiness of projects to be bid.
- The project assignments typically include a full review of the plans, specifications and construction estimate for each project and include review and counsel on a wide range design features including highway and traffic, structures, drainage, specifications, cost estimating, environmental design and overall constructability.

Westwood Station Redevelopment Peer Review - Westwood, MA

- Leads the peer review of the roadway design for the Town of Westwood which is currently undertaking an extensive redevelopment of the University Avenue Industrial Park into a vibrant, mixed use, smart growth pedestrian oriented community.
- In total the development will comprise of approximately 150 acres of mixed use development including residential, retail, hotel, office and public open space.
- Works with the Town, the developer and other member's of the Peer Review Team on a daily basis.
- Responsible for advising the Town on the acceptability of all aspects of the Roadway, drainage, lighting and utility design.
- Assists with urban design tasks to enable the Town to achieve its streetscape goals.

Monroe Street Downtown Streetscape Improvements - Lynn, MA

- Performed design services from concept through final design for all roadway, streetscaping, sidewalk and drainage improvements to Munroe Street, a busy commercial street in downtown Lynn.
- Served as Project Manager responsible for leading all engineering aspects of the project.
- Project design tasks included upgrading lighting to an ornamental district standard relating the roadway into the historical context of the area by incorporation of streetscaping elements such as trees and brick paving into the design.
- Reconstruction of the sidewalk and regarding and reconstruction of the entire street was necessary to bring into compliance with ADA requirements.
- Provided identification, inspection and rehabilitation of any areaways along Munroe Street

Safety Improvements at Lynnfield/Millard - Lynn, MA

- Project Manager for the reconstruction of the intersection of Lynnfield and Millard Ave. Situated on a sharp curve in Lynnfield Street, and subject to an ADT of approximately 33,000 vehicles per day, this five legged intersection currently operates under flashing signal control and is documented by the City as an operationally substandard intersection.
- Led the design effort to implement safety improvements at the intersection including full signalization, provision to make Den Quarry Road, currently a two-way roadway, a one-way roadway out of the intersection.
- The project also included cold planning and overlay of the existing roadway, sidewalk construction and drainage improvements.
- Responsibilities also included presentation at the public hearing, coordination with the City, and MassHighway.

Reconstruction of Glenn/Union - Natick, MA

- Project Manager for the reconstruction of approximately three miles of local connector roadways in the Town of Natick, including reconstruction of approximately 1 ½ miles of Glen Street, a ¼ mile of Union Street.
- Project Management responsibilities included leading the engineering team to design and construct Project including a complete upgrade of the roadway drainage system, rehabilitation of the pavement, installation of granite curb and asphalt sidewalks and design of a high visibility pedestrian crossing system.

Reconstruction of Speen Street - Natick, MA

- Project Manager for the reconstruction of Speen Street in Natick.
- The project included approximately 1 mile of urban collector roadway.
- Responsibilities included the supervision the design from preliminary development through preparation of final design / contract documents.
- The Project involved construction of a new sidewalks, cold planing and resurfacing, installation of granite curb, areas of box widening and horizontal re-alignment, drainage improvements, guardrail and retaining walls, signs and pavement markings.
- The design included the creation of several left turn lanes at key locations along the project route.
- The effort also includes the installation of three high visibility pedestrian crossing systems for added safety.

Surface Roadways South Boston Seaport - Boston, MA

- Served as project manager for the civil engineering design of the surface roadways. Over the last decade South Boston Seaport is an area which has observed a dramatic transformation from industrial warehousing to a vibrant mixed use urban space. The Roadway system is an extensive network of surface roadways linking Turnpike extension to the South Boston business and residential communities.
- Responsibilities included management and coordination of the civil design team which is comprised of highway, railroad, utility, drainage, traffic, landscaping, and electrical design subconsultants.
- A critical aspect of this project was the introduction of a consistent streetscape theme throughout the district. Project has also involved extensive agency coordination, including coordination with Boston Traffic Department, Massport Authority, Boston Redevelopment Authority, Developers and other impacted parties.

Mt Vernon Street Feasibility Study - Lynn, MA

- The City of Lynn is reviewing the feasibility of renovating building space below an existing railroad viaduct for retail use. Since frontage to the viaduct is along Mt Vernon Street, as a first step in the revitalization process the City has elected to reconstruct the roadway. Similar in size and scope to Munroe Street, design task for the project include upgrading lighting to an ornamental district standard, reconstructing all roadways and sidewalk in accordance with ADA requirements, and upgrading drainage and utilities.
- On going private developments abutting Mt Vernon Street have enabled the City to develop a significant streetscaping component to the project and Merrick is currently assisting the City with the implementation of that program.

Route 18 Roadway Rehabilitation - New Bedford, MA (MassDOT)

- Senior Civil Engineer in Charge of the 25% design for the rehabilitating Route 18 within the vicinity of the City of New Bedford.
- The project includes the reconstruction of approximately 3 miles of roadway with an emphasis on “context sensitive” design elements such as improved access for pedestrian and bicyclists and extensive landscaping to redefine residential versus commercial districts.
- Responsible for the coordination of all civil engineering design elements for the project including drainage and utilities, traffic, landscaping and lighting.

Safety Improvements to Lincoln Street – Franklin, MA

- Project Manager for the design of 3.5 miles of Urban Arterial Roadway in Franklin.
- This project includes the reconstruction and widening of the existing roadway with an emphasis on safety improvements.
- Upgrades to the facility include intersection upgrades at five locations, addition of sidewalks along the full length of the corridor, design of a new closed drainage system and replacement of existing water lines.
- In accordance with the new MassDOT design guidebook bicycle accommodation was also required along the entire corridor.

Route 146/I-290 Interchange - Worcester, MA (MassDOT)

- Project manager for the redesign of a \$50 million complex urban interchange sited in Worcester, MA.
- The project scope requires the staged demolition and conversion of the existing diamond interchange to a directional interchange.

- This project requires the construction of five bridges, 2 miles of 6 lane highways and approximately 2 miles of local roads. Responsible for the management of the design team including civil, structural, utility, electrical, environmental and landscape disciplines.
- Made numerous presentations to Mass Highway, the City of Worcester Department of Public Works and numerous private utility companies.
- Developed and negotiated fee proposals.

Reconstruction of Broadway – Lynn, MA

- Performed design services from concept through final design for all highway, traffic, drainage, utility and right of way design associated with the project. Broadway is a four-lane median separated Urban Principal Arterial and carries approximately 39,000 vehicles per day. The roadway is part of a critical arterial network connecting downtown Lynn with the regional interstate system. As indicated by the ADT, Broadway is an extremely busy thoroughfare. Development along the corridor is a mixture of residential and commercial abutters and all are concerned with the potential impacts of alterations to the existing traffic patterns as well as actual construction. The purpose of the project is to implement capacity and safety improvements at three 3 major signalized intersections.
- The project includes roadway widening and reconstruction, property easements, takings, reconfiguration of on and off-street parking, implementation of MassDOT's new bicycle accommodation policies.
- Additional corridor improvements include the construction of new sidewalks, streetscaping and drainage and utility upgrades.

Ashmont Station Rehabilitation Project - Boston, MA (MBTA)

- Lead the Civil Engineering design effort for the \$40 million dollar renovation of Ashmont Station, an inter-modal facility for MBTA bus and rail operations.
- This complex project involved a complete reconstruction of the existing station and adjacent site. Close coordination with Architectural and Structural design teams was a critical issue to ensure that access for MBTA operations was maintained at all times.
- The civil design work included evaluation of the existing utilities, including inspection of existing drains and sewers, relocation of gas, electrical and telephone services and roadway construction.
- Serves as the liaison between Boston Water and Sewer, developers and other interested parties.

Silver Line Feasibility Study - Boston, MA (MassPort/MBTA)

- Project Manager for a study to review the feasibility of changing an existing at grade intersection, where MBTA transit operations meet and cross vehicular traffic, to a grade separated facility.
- Prepared and negotiated the fee proposal.
- Managed the design team including civil, structural and geotechnical disciplines.
- Prepared cost estimates.
- Made multiple presentations to Massport and the MBTA.
- The design team was direct selected by the client to perform the second phase of this study, which is currently in the negotiation phase.

Rhode Island Freight Rail Improvement Project (RIDOT)

- Responsible for the technical supervision and staffing of the Civil Engineering design services for the F.R.I.P project.
- Typical responsibilities include the review and approval of track drainage, storm water management design, traffic management and civil roadway work associated with the track and bridge improvements along the corridor.

Boston Marine Industrial Park Tunnel - Boston, Massachusetts (MassDOT)

- Managed the civil engineering alignment design.
- Responsible for the development of typical sections, profiles, curb-tie and grading plans, cross-sections for surface streets, cut-and-cover tunnel, and boat structure.
- Solely responsible for the development of all horizontal and vertical geometry using ACAD/Softdesk/GDS.



- Coordinated civil requirements with other project disciplines and managed a staff of four.

Bridge Replacement - Spencer, MA (MassDOT)

- Prepared Highway design, drainage and traffic management plans for bridge replacement and reconstruction of a 1,500-foot rural collector for the Massachusetts Highway Department.

Bridge Replacement - Southwick, MA (MassDOT)

- Prepared highway design, drainage and traffic management plans for bridge replacement and reconstruction of a 1000-foot rural arterial for the Massachusetts Highway Department.

South Boston Piers Transitway – South Boston, MA (MBTA)

- Performed a variety of Civil Engineering design including horizontal and vertical design, construction staging, utility design and traffic management for the South Boston Piers Transitway.
- Developed translation procedures for drawing exchange between AutoCad and GDS.

Urban Revitalization Plans - Lowell, MA

- Developed plans, specifications and estimates for two revitalization projects.
- Specific tasks included upgrading of drainage and street reconstruction, in accordance with DEQE, Historical Society, and Conservation Committee guidelines and regulations.

Neal A. Driscoll
Construction Services Manager

Experience: 32 Years

Education A.S., Civil Engineering - Wentworth Institute of Technology (1973)

Commonwealth of Massachusetts Licenses
Building Supervisors (No restrictions)
Class A Concrete Technician (No restrictions)
Certified Title 5 Septic System Inspector

City of Boston Drain Layers License (No. 06133)

NICET (National Institute Civil Engineering Technologies)
Certified Water and Sewer
Certified Highway Construction

Confined Entry Training Seminar - New England Interstate
Environmental Training Center

OSHA 10 Hour Construction Outreach Training

OSHA HAZWOPER 40 hour Hazardous Waste Operations and Emergency Response Training –
National Environmental Trainers, Inc.

Professional Overview

Mr. Driscoll has been in the civil environmental and construction fields for over 30 years. Prior to joining Beta, Mr. Driscoll was President and Owner of his own contracting company for three years. His firm engaged in various types of utility, road and park construction, and subdivision development. He handled all aspects of the company business; including bookkeeping, estimating, bidding, supervision, construction, construction layout, bond and pre-qualification.

In addition, Mr. Driscoll's earlier work was as an engineering technician for a major consulting firm in Boston for six years. In this capacity, he performed a variety of tasks including utility design, site layout and survey, easement design and survey and extensive resident inspection.

At BETA, Mr. Driscoll has been involved in various projects including several utility designs for municipalities in Massachusetts and Rhode Island, treatment plants, pump stations, drainage and water related construction projects, road reconstructions, surveys and site layout related to the above.

As a Resident Representative for BETA Group in several Massachusetts and Rhode Island municipalities, including Brookline, Needham, Framingham, Randolph, Weymouth, Wellesley, and Devens in Massachusetts and Providence/East Providence in Rhode Island. Mr. Driscoll was involved in numerous projects from design to the submission as-built drawings. His duties also included preliminary surveys, construction survey and layout, shop drawing review and preparing of payment requisitions.

Transportation***Washington & Central Street Reconstruction – Wellesley, MA***

- Chief Resident Representative for \$4 million roadway and streetscape improvement project

- Responsibilities included daily inspection of three phases of construction improvements, shop plan review, payment request evaluation, on-site communications with contractors, and dispute resolution
- Project conducted through central business district of the town with little or no disruption to existing business activity.

Jackson Road Reconstruction, Massachusetts Development Finance Agency (MDFA) – Devens, MA

- Construction of over 1 mile of new road with all new utilities and amenities (Phase 1)
- Resident Representative for entire project
- Coordination between MassDevelopment Engineering Department and Contractor to assure continuous operation of the Devens, MA site.

Montrose Avenue Water Main and Reconstruction – Wakefield, MA

- Installation of new water main and reconstruction of entire road
- Provided resident representation service for the project
- Coordinated with Town of Wakefield Engineering Department and the Contractor
- Coordination between MassDevelopment Engineering Department and Contractor to assure continuous operation of the Devens, MA site.

School Street Reconstruction – Revere, MA

- Superintendent for road reconstruction
- Work included road excavation and re-grading
- Removing and resetting of granite curb
- Removal of existing and installing new concrete sidewalk

Prospect Street Drainage and Reconstruction – Revere, MA

- General contractor for road and drainage reconstruction
- Work included installation of new drain, catch basins and manholes
- Removing and resetting granite curb
- Removal of existing and installing new concrete sidewalk

Water/Wastewater***Pleasant Street Water Pump Station Bypass – Framingham, MA***

- Install new 12-inch, 16-inch and 20-inch ductile iron water main and appurtenances.
- Pipe will provide a transmission line for future development. Facilities were left in place to bypass water around the existing pump station during renovations.

Combined Sewer Separation Project Phase I – Brookline, MA

- Remove existing drainage from combined sewers.
- Install new twelve, fifteen, eighteen and twenty four inch reinforced concrete pipe drains along with new catch basins and manholes.

Great Plain Ave Sewage Pumping Station Rehabilitation – Needham, MA

- Completely gut and replace all the pumping station components including, but not limited to, electrical, HVAC, mechanical, architectural and structural.
- Construct and monitor bypass sewage pumping system during construction

Route 128 Water and Sewer Reconstruction – Needham, MA

- Reconstruction of utility infrastructure including pipe ramming, pipe jacking and horizontal directional drilling across Route 128 at a construction cost of 5.2 million dollars
- Replacement of six through twelve inch sewer main
- Replacement of six through twelve inch water main
- Replacement of twelve inch force main

- Resident Representative for project and coordinator between Town and Contractor

Franklin Street Water and Sewer Main Replacement – Framingham, MA

- Sixteen inch ductile iron water main replacement and appurtenances
- Fifteen and twelve inch sewer main replacement
- Both utilities required bypass piping
- Resident Representative for construction
- Coordinated between the Town Department of Public Works and the Contractor

Water Main Replacement – Framingham, MA

- Twelve inch ductile iron water main and appurtenances
- Resident Representative for construction of water main
- Coordinated between the Town Department of Public Works and the Contractor

East Mansfield Interceptor and Pump Station – Mansfield, MA

- Over three miles of new interceptor sewer main
- Designed and provided resident inspection for all aspects of the project
- Coordinated between the Town Department of Public Works and the Contractor

East Bay Pipeline - Bristol County Water Authority (BCWA) – Providence, RI

- Thirty inch diameter water transmission line between East Providence and Providence
- Resident Representative for construction of water main
- Coordination between BCWA and Contractor and confirmed locations of appurtenances

Long Island Sewer Tie-In, Long Island, Public Facilities Development – Boston, MA

- Installations of twelve inch sewer main from existing sewage treatment plant to tunnel shaft from Deer Island to West Island
- Coordinate and confirm layout and grades of new sewer, ensure adequate by-pass pumping of sewage at treatment plant tie-in, and oversee additions of new headworks equipment.
- Coordinate between City of Boston PFD and Contractor
- Ensure adequate coordination between treatment plant operation and new construction

Washington Park and Reservoir Avenue Pump Station, Narragansett Bay Commission (NBC) – Providence, RI

- Force main design and major pump station rehabilitation
- Chief Resident Representative for construction phase of both stations
- Coordinated scheduling between NBC and Contractor
- Help ensure existing station remains on line and coordinates functioning of same with NBC and Contractor
- Provided inspection services on the following; concrete and reinforcing, waterproofing, mechanical/plumbing, HVAC, electrical, site work and utility installation including new force mains at both stations, fence installation, landscaping, paving, and demolition

Westborough State Hospital – Massachusetts Department of Capital Planning and Operations (MADCPO)

- Force main design and construction-related rehabilitation of existing pump stations and force mains

CSO Study – New Bedford, MA

- Participated in field evaluation program
- Flow monitoring, sampling and analysis

Resident Representative Services - Randolph and Weymouth, MA

- Resident Representative for numerous construction projects
- Duties included preliminary design, construction survey, layout and shop drawing reviews



Richard A. Claytor, Jr., P.E.

Principal Engineer



Areas of Expertise

- Wetland and Natural Resource Area Assessments
- Environmental Permitting & Compliance
- Smart Growth/ Low Impact Development
- Watershed Planning & Assessment
- Civil Engineering
- Environmental Engineering
- Stormwater Management
- Surveying
- Site Design
- Training

Professional Registrations

- Professional Engineer Massachusetts, New Hampshire, New York, and Maryland
- Massachusetts Certified Soil Evaluator
- LEED Accredited Professional

Professional Affiliations

- Massachusetts DEP Stormwater Policy Advisory Committee
- Town of Sandwich, Massachusetts Planning Board, May 2007 to Present
- American Society of Civil Engineers

Academic Background

Bachelor of Science, Union College, Civil Engineering, Concentration in Hydrology, Hydraulics, Water Resources, and Geotechnical Engineering

Rich Claytor has more than 25 years of practical experience in civil and water resource engineering planning and design, construction administration, and watershed research, education, and training. Rich has extensive experience and expertise in stormwater management design, program assessment, policy and evaluation. Rich also is experienced in watershed planning, training and education; water resource permitting and research; water supply and wastewater conveyance design; land use planning, site design and research; storm drainage, erosion/sediment control, and roadway design; and construction administration. He has authored a variety of publications on stormwater design and implementation, presented in more than 100 training workshops and conferences. He was the principal designer of stormwater management and stream restoration measures for over a 100 projects.

REPRESENTATIVE PROJECTS

Urban Stream Restoration Practices – Initial Assessment:

Principal-in-Charge for this study and analysis of urban stream restoration practices. The assessment evaluated more than 20 stream restoration projects in the Mid-Atlantic Piedmont and Mid-West Plains to determine key factors to success or failure of constructed stream restoration practices.

Washington, DC MetroRail Wetlands Mitigation, Greenbelt, MD:

Lead design engineer for the development of wetland restoration plans that incorporated a 15-acre riverine wetland mitigation project sited on the lands of the Beltsville Agricultural Reserve in Greenbelt, Maryland. The design included a natural channel design replication of approximately 2,000 feet in length and was sized to provide a stable channel for range of sub-bankfull, bankfull and overbank flow events. The project has been in place for approximately 15 years providing functional values for wetlands impacts associate with construction of the final stages of the Washington DC MetroRail service.

Driftway Bicycle and Pedestrian Trail, Scituate, MA: Principal-

In-Charge for the design, permitting, construction supervision, construction cost estimates, bid preparation and construction of an 8-foot wide bicycle and pedestrian trail along a high traffic roadway within the center of the Town of Scituate. The path was approximately 1-mile long and included various utility relocations and resource area protection measures.

**Richard A. Claytor, Jr., P.E.**

Principal Engineer

Gannett Road Bicycle and Pedestrian Trail, Scituate, MA: Principal-In-Charge for the design, permitting, construction cost estimates, bid preparation and construction of an 8-foot wide bicycle and pedestrian trail along a high traffic roadway within the center of the Town of Scituate. The path was approximately 2-miles long and included various utility relocations and resource area protection measures.

Rhode Island Stormwater Design and Installations Manual Update: Principal-in-Charge and co-author for this project to update the statewide Rhode Island Stormwater Manual to incorporate low impact development (LID) practices for all new and redevelopment projects. The manual requires that applicants integrate site design criteria with structural stormwater practices to create a comprehensive stormwater management approach and adds nutrient and increased total suspended solids (TSS) pollutant removal requirements for stormwater treatment practices.

New York City – Staten Island Bluebelt: Lead project designer for a series of stormwater management and stream restoration projects as part of a major water quality improvement project on Staten Island, New York. The project involved identifying stream reaches severely impacted by urbanization and designing naturalized, geomorphologically-based stream rehabilitation projects. Over two miles of first and second order streams were rehabilitated, and the project has received five major awards from: the American Council of Consulting Engineers, National Recognition Award, the American Academy of Environmental Engineers, Honor Award, and the New York Association of Consulting Engineers, Diamond Award for Blue Heron Drainage Plan. A video about this project can be viewed here: www.nyc.gov/html/dep/html/dep_projects/bluebelt_video.shtml.

Beaver Dam Brook, Carver, MA: Lead hydrologist for the conceptual sizing and design of this natural channel system designed to mitigate for impacts to the existing stream associated with cranberry farming operations. The project involved field measured flow observations, hydrologic and hydraulic model calibration, development of plan, profile and cross-sectional geometry for a re-constructed stream channel.

Vermont Watershed Hydrology – Technical and Stream Geomorphic Assessment, Vermont Agency of Natural Resources: Project Manager and Principal Investigator for this geomorphic analysis and assessment of eight rural and urban rivers in Vermont for the Vermont Agency of Natural Resources to evaluate the impacts and geomorphic response to increasing levels of watershed impervious cover.

PROFESSIONAL EXPERIENCE

Horsley Witten Group, Inc., Principal Engineer, 2001 to Present

Center for Watershed Protection, Principal Engineer, 1994 to 2001

Loiederman Associates, Inc., Vice President and General Manager, 1985 to 1994

Greenhorne and O'Mara, Inc., Design Engineer, 1983 to 1985



Amy Miller Ball, CWS

Project Manager and Senior Wetland Scientist



Areas of Expertise

- Wetland & Natural Resource Area Assessments
- Environmental Permitting & Compliance
- Rare Species
- Coastal Resources
- Training
- Meeting Facilitation

Professional Registrations

- Certified Wetland Scientist, (C.W.S.) No. 230, NH

Professional Affiliations

- Board of Directors, V.P. for Education, MA Association of Conservation Commissions (MACC)
- Member, Society of Wetland Scientists (SWS)
- Member, Association of MA Wetland Scientists (AMWS)

Academic Background

Master of Science, Plant Biology, University of Massachusetts

Bachelor of Science, Biology, Muhlenberg College

Wetlands Wildlife of Southeastern MA Field Course, University of Massachusetts Cooperative Extension

Marine Phycology Summer Field Course, University of Washington

Barrier Island Ecology Summer Field Course, Duke University

Amy Ball has fifteen years of professional experience as a wetland scientist and ecologist specializing in wetland botany and ecology, rare species and wildlife habitat assessments, wetland restoration and mitigation, environmental assessment and monitoring, and environmental policy evaluation. As a Project Manager and Senior Wetlands Scientist with the Horsley Witten Group, Inc., Amy manages projects requiring inland and coastal wetland resource area determinations, wildlife habitat assessments, impact mitigation, and regulatory compliance. Amy prepares permit applications and written narratives for projects requiring federal, state, and local permits and frequently appears before local conservation commissions and state and federal regulatory authorities as a project representative or reviewing consultant, and has provided expert testimony in defense of a wetland boundary determination. She has also assisted the Massachusetts Department of Environmental Protection (MA DEP) with adjudicatory hearings.

REPRESENTATIVE PROJECTS

Bruce Freeman Rail Trail, Acton, Carlisle, and Westford, MA:

Project manager for wetlands and wildlife assessments along a 4.5-mile stretch of abandoned railway as subcontractor to transportation engineering firm. Responsible for field identification and delineation of freshwater wetland resource areas and filing an Abbreviated Notice of Resource Area Delineation (ANRAD) with the respective Towns, as well as filing of a MA Endangered Species Act (MESA) Project Review with the MA Natural Heritage and Endangered Species Program (NHESP) once project is designed.

Eel River Headwaters Restoration Project, Plymouth, MA:

Project manager for wetlands and wildlife components associated with the implementation of the Airport's Capital Improvement Program. Project involvement includes wetland delineation of freshwater and coastal resource areas, wildlife habitat assessments, and rare species habitat surveys for four Massachusetts-listed species, as well as assisting in the preparation of various reports and public presentations. Responsible for assisting project team with permitting and coordination with Federal, State, Regional and local regulatory agencies. Required permits and review include: Section 404 Individual Permit and Section 401 Water Quality Certification (WQC) under the Federal Clean Water Act; Coastal Zone Management (CZM) Consistency Review; a Decision from the Cape Cod Commission Development of Regional Impact; Project

Amy Miller Ball, CWS

Project Manager and Senior Wetland Scientist

Review under the Massachusetts Endangered Species Act (MESA); and an Order of Conditions under the Massachusetts Wetlands Protection Act, in addition to review under the National Environmental Policy Act (Environmental Assessment) and the Massachusetts Environmental Policy Act.

Wetland Restoration, Greenfield, MA (on-going): Responsible for assessment, design, supervision, and long-term monitoring of a wetland restoration project of a contaminated Bordering Vegetated Wetland requiring remedial actions under the MA Contingency Plan, 310 CMR 40.0000 (MCP). Remediation within the BVW was required in order to achieve a level of “No Significant Risk” and to attain a “Permanent Solution” as required by the MCP. Wetland restoration design included removal and replacement of underlying contaminated sediments; re-vegetation with native wetland species; and implementation of an invasive species management plan to address the presence of purple loosestrife (*Lythrum salicaria*), an invasive species in MA.

Rapanos Guidance Update, U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds: Project manager for organizing, sorting, and summarizing the approximately 62,000 public comment letters received by the U.S. EPA on the implementation 2007 Joint Guidance document prepared by EPA and the Army Corps of Engineers (Corps). The Guidance document was developed in response to the U.S. Supreme Court consolidated cases *Rapanos v. United States* and *Carabell v. United States* (or *Rapanos*), which addresses jurisdiction over waters of the United States under the Federal Clean Water Act (33 U.S.C. 1251, et seq.), for which there was no majority opinion. Results of this project were used by EPA and Corps to shape the future implementation of the *Rapanos* court decision.

Appalachian Stream Mitigation Workshop, U.S. Environmental Protection Agency (EPA), Office of Wetlands, Oceans and Watersheds: Project manager for a follow up workshop on implementation of the U.S. Army Corps of Engineers (Corps)/EPA 2008 Compensatory Mitigation Rule specific to surface coal mining practices in the Appalachian region, where improving the ecological success of stream mitigation has been identified as a priority. Provided lead technical support for developing course book and the training curriculum for a week-long training workshops in conjunction with EPA, Corps, and U.S. Department of Interior offices of Surface Mining Reclamation and Enforcement (OSMRE), and U.S. Fish and Wildlife Service, including facilitation for workshop delivery, preparation and submittal of meeting summaries, and preparation of a final report summarizing the overall training efforts and providing recommendations for future training on related topics.

City of Taunton Conservation Commission Consultant, Taunton, Massachusetts: Project manager for third-party project reviews for the City of Taunton Conservation Commission. Performs reviews of site conditions including resource area boundaries, permit applications, plans and supporting data, including wetland replication and restoration plans. Prepares reports discussing findings and recommendations for Conservation Commission consideration. Regularly attends public hearings and on-site meetings with Commission members, applicants, and other consulting professionals.

Hanscom Field, Bedford, Concord, Lexington & Lincoln, Massachusetts: Consultant for the Bedford, Concord, Lexington and Lincoln Conservation Commissions in their review of the

Amy Miller Ball, CWS

Project Manager and Senior Wetland Scientist

proposed implementation of a Vegetative Management Plan within Hanscom Field. Provided a review of the Notice of Intent (NOI) application and related documents, conducted site-wide reviews with representatives from the various Conservation Commissions and applicant, and attending Conservation Commission public hearings. Providing recommendations to the four Conservation Commission regarding mitigation for project impacts to wetland resource areas and water quality. Assisting in preparation of an Order of Conditions applicable to all four towns.

State, Regional, and Local Permitting for The Willowbend Golf Course, Mashpee, Massachusetts:

Responsible for coordinating and preparing permit applications for the proposed expansion of an existing golf course under the Wetlands Protection Act, Cape Cod Commission Act, and the local wetlands bylaw. Prepared a Notice of Intent for work within wetlands jurisdiction and a Development of Regional Impact permit filing under the Cape Cod Commission Act. Ms. Ball also managed and conducted field studies to assess potential impacts of work proposed in or near wetland areas and conducted long-term monitoring to ensure regulatory compliance.

MBTA Railway, Easton and Raynham, Massachusetts: Conducted wetland delineation and ecological analyses along a 5.2 mile segment of an abandoned railway bed on behalf of the Towns of Easton and Raynham, Massachusetts. Ecological analyses involved intensive biological surveys and resulted in the identification of 15 vernal pool areas, identification of aquatic invertebrates, amphibians, and reptiles, and subsequent certification of vernal pool habitat by Massachusetts Natural Heritage & Endangered Species Program. Data collected were incorporated within the state vernal pool and rare wildlife habitat database.

PROFESSIONAL EXPERIENCE

Horsley Witten Group, Inc., Project Manager and Senior Wetland Scientist, 2001 to Present

LEC Environmental Consultants, Inc., Ecologist, 1995 to 2001

University of Massachusetts, Research Assistant, Spring/Summer 1993

University of Massachusetts, Teaching Assistant, 1991 to 1994

SMC Environmental Services Group, Inc., Assistant, Summers 1989 to 1991



Michelle L. West, P.E.
Project Engineer



Areas of Expertise

- Smart Growth/ Low Impact Development
- Watershed Planning & Assessment
- Geographic Information Systems
- Civil Engineering
- Environmental Engineering
- Stormwater Management
- Site Design
- Low Impact Design
- Training
- Meeting Facilitation

Professional Registrations

- Professional Engineer, MI

Professional Affiliations

- Member, Conservation Commission, Town of Falmouth, 2007 to Present
- Waquoit Bay National Estuarine Research Reserve, Volunteer

Academic Background

Master of Science, Engineering,
College of Civil and
Environmental Engineering,
University of Michigan

Bachelor of Science,
Engineering, College of Civil
and Environmental Engineering,
University of Michigan

Bachelor of Science, School
of Natural Resources and
Environment, University of
Michigan

Michelle West has eight years of professional experience in civil and environmental engineering. Her specific expertise is in stormwater management assessment, watershed planning, hydraulic/hydrologic modeling, and low impact development (LID) planning, assessment, design, and implementation. She has prepared materials for and presented at several technical training workshops on stormwater issues, LID, and erosion and sediment control (ESC). She also has experience with public education and outreach, particularly as part of municipal NPDES Phase II stormwater plan implementation, as well as with geographic information system (GIS) mapping, analysis, and modeling.

REPRESENTATIVE PROJECTS

Ten Mile River Bank Stabilization and Restoration Project, Attleboro,

MA: HW was contracted to develop a design for stabilizing and restoring 1,800 linear feet of river bank along the Ten Mile River in downtown Attleboro. Michelle is the project manager for all aspects of the design, which includes natural bank stabilization measures to reduce erosion and improve habitat; invasive species removal and long-term monitoring; buffer restoration with native riverine species; kayak/fishing access; and a multi-use path with associated park features. The project has received all necessary local, State, and Federal permits, and Phase 1 of 4 is scheduled to be constructed in Fall 2011.

Rhode Island Stormwater Design and Installations Manual Update and LID Site Planning and Design Guidance for Communities:

Lead Engineer for this project to update the statewide Rhode Island Stormwater manual to incorporate LID practices for all new and redevelopment projects. The proposed strategy will for the first time integrate site design criteria with structural stormwater practices to create a comprehensive stormwater management approach. She developed and presented training workshops for agency staff, as well as for engineers and developers, to describe the new manual and introduce new concepts. She also helped prepare a companion guidance document for Rhode Island municipalities that will facilitate the implementation of LID at the local level.

Savin Hill Cove Sediment Erosion and Transport Assessment, Boston,

MA: Conducted an assessment of potential erosion and scour in Savin Hill Cove resulting from proposed changes in stormwater discharge from improvements associated with the Morrissey Boulevard Drainage Conduit Project. Evaluated in-channel flows and velocities in the cove using the Storm Water Management Model (SWMM) RUNOFF module and US Army Corps of Engineers Hydrologic Engineering Center River Analysis System (HEC-RAS) model.

Michelle L. West, P.E.
Project Engineer

Pilot Project for Meeting the Charles River Phosphorus TMDL for the Spruce Pond Subwatershed, Franklin, MA: In cooperation with the Charles River Watershed Association, HW provided technical assistance and engineering support to identify restoration approaches to restore hydrologic integrity and develop stormwater “green infrastructure” retrofit concepts for the Spruce Pond Watershed. Michelle was the Project Engineer, providing the following services: training for CRWA staff on how to conduct a retrofit inventory; field reconnaissance to identify retrofit sites; evaluation and conceptual design and cost estimates for retrofit options; site selection support; and technical peer review of CRWA’s assessment report.

Ecological Safe Yield Analysis, Parker River, Georgetown, MA: Performed a GIS-based water budget analysis of impacts from the Georgetown Supply wells and other watershed factors on the upper Parker River to better understand the causes of low river flows. The project, funded by a grant from Massachusetts Riverways Program, also included an Index Stream comparison analysis and a stream depletion analysis using the USGS STRMDPLT model.

Taunton River Watershed Modeling, MA: Assisted with the development of a GIS-based model to assess preliminary water budgets for over 100 small sub-basins within the watershed to assess which areas of the watershed are experiencing a net gain or loss of water and to what degree. In particular, provided support for the spatial processing of input data layers and trouble-shooting of the model.

Herring Brook Stormwater Improvements Project, Weymouth, MA: The Massachusetts Division of Marine Fisheries identified adverse impacts on the herring and smelt habitat in Herring Brook due, in part, to excessive sediment loading from stormwater discharges. Michelle conducted a watershed assessment of the 550-acre urbanized study area using GIS and field reconnaissance. This assessment was used to identify the most effective locations for stormwater retrofits and most appropriate practice at each location. She was the lead engineer on the BMP design for the top three priority sites, including an underground sand filter and two gravel wetlands, which involved innovative design components.

Willand Pond Watershed Assessment, Dover and Somersworth, NH: Willand Pond is a natural, spring-fed pond that is impaired due to excessive nutrients, flooding, and poor flushing, which has led to large cyanobacteria blooms. The Project Team used GIS data layers and orthophotography to analyze changes in land use over time for the 290-acre watershed. The assessment focused on impervious areas, in order to assess and model changes in groundwater recharge and stormwater runoff volume and nutrient input into the pond. Based on the model results and a field reconnaissance, four stormwater retrofit designs were recommended. In addition, modifications to the downstream outlet were recommended to help restore historical hydrology, improve pond flushing, and reduce water levels.

Stormwater Assessment for Bare Hill Pond, Harvard, MA: Performed a watershed assessment and provided recommendations for stormwater retrofits for eight target drainage areas tributary to Bare Hill Pond, which suffers from high nutrient and sediment loadings, as well as invasive vegetation. Designed LID practices such as gravel wetlands, swales, and bioretention facilities to help reduce pollutant inputs to the pond.

PROFESSIONAL EXPERIENCE

Horsley Witten Group, Inc., Project Engineer, 2005 to Present

Ayres, Lewis, Norris, & May, Inc., Senior Engineer, 2002 to 2005

Donald S. Leighton, ASLA

Experience:

Donald S. Leighton is President and partner in charge of planning and design for Gates, Leighton & Associates, Inc.

Mr. Leighton possesses the unique ability to creatively unite the many aspects of a project. He especially enjoys large scale planning projects that entail the public opinion process. His ability to share his vision through clear graphic communication is truly inspiring, and he is a master of building public consensus for community projects. Mr. Leighton has been especially successful at working with state and local environmental agencies as well as developers to arrive at solutions that protect the interest of all. He also enjoys working with the intricate detailing of a design -- whether it be stonework, paving patterns, or garden structures and creating a sense of place that weaves both form and function together.

Background:

Mr. Leighton has twenty-eight years of practical experience and has built an extensive reputation as a physical planner throughout New England. Mr. Leighton started his career in 1977 as a summer intern for the Woonsocket Planning Department. He soon became involved with the various downtown planning efforts which carried over into his 1978 thesis project at Rhode Island School of Design.

Mr. Leighton worked for six and one-half years at the Rhode Island Department of Environmental Management. As the Senior Landscape Architect for the Department, Mr. Leighton was responsible for developing master plans including Beavertail State Park, Galilee Fishing Port, Breakwater Park, and various island sites within the Bay Island Park System. He supervised construction of landscape projects as well as the exterior restoration of the historic Beavertail Lighthouse. Mr. Leighton also was directly involved in redesigning the State of Rhode Island park signage system and for developing graphic interpretive signs.

Qualifications:

Don Leighton graduated from RISD in 1978 with a Bachelor's Degree in Fine Arts and a Bachelor's degree in Landscape Architecture.

Mr. Leighton has been an instructor in the Landscape Department at Rhode Island School of Design. His course focused on developing drawings and graphic skills used in landscape architecture.

Memberships:

Mr. Leighton is a member of the American Society of Landscape Architects. He is former Co-Chairman of the Barrington Conservation Commission; he served on the town's County Road Improvement Committee, and was an active member of the Barrington Preservation Society. Mr. Leighton is currently a member of the Veteran's Memorial Auditorium Board in Providence and has served as Chairman of its Facilities Committee since 1994.

Certifications:

Donald S. Leighton is a CLARB certified landscape architect, licensed in Rhode Island, Maine, New York, and Massachusetts.

Peter F. Jackson, RLA

Landscape Architect

EDUCATION: Master of Landscape Architecture, College of Environmental Science and Forestry,
State University of New York at Syracuse, 1978
B.A. Psychology, Marietta College, 1974

PROFESSIONAL REGISTRATION: Registered Landscape Architect: Massachusetts #776;
Rhode Island #404; Connecticut #1004

PROFESSIONAL AFFILIATIONS: American Society of Landscape Architects
American Institute of Certified Planners
National Recreation and Park Association
New England Park Association

Mr. Jackson's career has centered on planning, design and management of parks, recreation facilities, open space resources, and environmental protection. Working in both the public and private sectors has provided him the expertise in the regulatory, legal, and business environment in which construction on the land takes place. He has developed additional expertise in land management and stewardship, those elements necessary for successful parks and open space that occur after the land is bought and developed. His passion is to provide beautiful and environmentally responsible places for people to enjoy and learn to respect.

The following are a representative sample of the more than 200 projects Mr. Jackson has completed or directed over his 25 year career:

Wellesley College Athletic Complex; Wellesley, Massachusetts: Project Manager for major subconsultant member of a team for planning and design of the environmental remediation of approximately 45 acres of contaminated upland, wetland, pond, brook, and lake. Remediation design included a wetland boardwalk, fieldstone walls, and double arch fieldstone bridge. Designed the post-remediation use of the site as an athletic complex. Project included a running track with synthetic turf field hockey field, new softball, lacrosse and soccer fields, and appurtenant buildings, utilities, walkways, and landscapes. All facilities are designed to NCAA competition standards.

Nashua Southwest Park; Nashua, New Hampshire: Project Manager for the Master Plan and Phase One implementation for the new Southwest Park Recreation Area. Performed field evaluations (site survey, wetland mapping and soils analysis); developed preliminary design (layout, grading and erosion control, drainage, waste disposal and water supply, planting and irrigation); developed final plans and completed permit applications (site plan, conservation commission, zoning board, wetland, wastewater disposal and water supply). Phase One consists of five full size multiuse fields, a basketball court, playground, entry roadway, utilities, and an 87 space parking area.

Neponset River Greenway; Boston, Massachusetts: Prepared a stewardship plan including plans for maintenance/natural resource management, security, operations and management, partnerships, programming and funding. The Neponset River Greenway encompasses a 6.5-mile river corridor in the cities of Boston and Quincy and the Town of Milton, Massachusetts

Peter F. Jackson, RLA
Landscape Architect

Salisbury Greenway; Brockton, Massachusetts: Developed conceptual plan for five-mile corridor along Salisbury Brook and Salisbury Plain River from downtown to city boundary. Assisted in obtaining development funding and designed first phase project. The first phase was development of Montello Street Park, located downtown. It includes walkways, lighting, picnic area, pedestrian bridge, bank stabilization, and plantings.

Brightfields Feasibility Study; Brockton, Massachusetts: Assisted City and Spire Corporation in assessing feasibility of redevelopment of a brownfields site as a photovoltaic power generation facility. Developed conceptual plans to address site generation capacity and address neighborhood concerns about potential impacts, links to adjacent open space, and potential mitigation opportunities.

Park and Open Space Management: Developed open space management plans including management plans for the Neponset River Greenway, East Boston Greenway, and Wild Acres Conservation Area in Pittsfield, Massachusetts. Plans deal with issues of land management, natural resource management, public/private partnerships, funding, and site programming.

Blue Hills Trailside Museum; Milton, Massachusetts: Developed plans for outdoor interpretive exhibits, including live animal exhibits at Museum operated by Massachusetts Audubon Society adjacent to 7,000-acre Blue Hills Reservation. Also prepared design for trail, boardwalk, and landscape improvements for new Pond Walk exhibit.

John Thompson Memorial Park, Stony Brook Reservation, Hyde Park, Massachusetts: Planned and designed major reconstruction of a nine-acre facility designed for handicapped children. The project also included parking, field house, spray pool, playground, pond, amphitheater, and picnic area.

South Boston Beaches Rehabilitation; Boston, Massachusetts: Planned, designed and provided construction oversight for rehabilitation of urban beach and facilities including bathhouse, bandstand, pavilions, fishing pier, boat landing, walls, boardwalks, parking, lighting, railings, visitor amenities, and landscaping. Construction cost \$6.5 million.

Franconia Notch State Park; Franconia, New Hampshire: Planned and designed recreational facilities reconstructed in conjunction with extension of Interstate 93 through Franconia Notch. Project included bicycle trail, major visitor center, parking areas, trails, picnic access and viewing areas.

Beaver Brook Reservation, Belmont and Waltham, Massachusetts: Planned, designed and provided construction oversight of a 38-acre woodland reservation and recreational facilities including ball fields spray pool, playground, trails, overlooks, vegetation management, field stone walls, and parking facilities. Site was the first property acquired by the Metropolitan Park Commission based on Charles Eliot's plan.

Brookwood Farm Landscape Management Plan: Developed plan and implementation contracts for landscape restoration and preservation and opening up this historic private property to public use.

Peter F. Jackson, RLA
Landscape Architect

Dorothy Quincy Homestead; Quincy, Massachusetts: Planned, designed and implemented several projects to preserve and interpret historic home and grounds of the Quincy Family Home, the childhood home of Dorothy Quincy, wife of John Hancock. Specific tasks included replication of formal gardens, and landscape management and replanting plans. Also, developed a display for the New England Spring Flower Show which interpreted the preservation efforts.

Suffolk Resolves Landscape Restoration, Milton, Massachusetts: Conducted historic research and prepared restoration plans for landscape setting of historic house which was the location of the adoption of the Suffolk Resolves in September 1774. The Suffolk Resolves were articles of grievances against Great Britain, containing many of the charges that were later incorporated into the Declaration of Independence. The house was moved in 1950's to a more rural location and the landscape designed by William Morris Hunt. The challenge was to interpret the 1774 history of the site and incorporate the 1950's landscape design. Elements of the plan implemented to date include new lighting on the entrance drive, reconstruction of brick walks and entrance plaza, installation of irrigation, turf renovation, and tree and shrub pruning and removal. A future phase will include restoration of Hunt's sunken garden.

East Boston Greenway Stewardship Plan: The East Boston Greenway is a three mile long corridor of connected parks and open spaces that extends from Boston Harbor to Belle Isle Marsh and then to the Town of Winthrop and the Atlantic Ocean. Properties along the Greenway fall under the jurisdiction of six different city and state agencies making coordination of development, maintenance, security and management a challenge. The plan included chapters on maintenance, safety and security, management and oversight, citizen involvement and programming, and resource and funding needs. The plan was prepared for the Boston Natural Areas Network, working with the East Boston Greenway Council and the friends of the East Boston Greenway.

Mystic River Shoreline Management Plan: This plan was prepared while at the MDC to develop a program of land management and maintenance and to seek Conservation Commission approval and an Order of Conditions. This would allow proposed landscape restoration projects and on-going maintenance tasks to proceed without continuous submittal of individual projects for Conservation review and approval. The plan addressed park uses, recreational facilities, shoreline erosion, wildlife habitat protection and enhancement, vegetation management, and other activities.

Wild Acres Conservation Area Mitigation Plan, Pittsfield, MA: The Pittsfield Airport is planning a runway expansion that will have significant impacts on this property under the jurisdiction of the Pittsfield Conservation Commission. The airport plan will require land transfer from the Con Com to the airport, filling on Wild Acres land, and disruption of recreational facilities. The mitigation plan proposes a land swap that would significantly add to the total acreage of Wild Acres and add new lands with significant natural resource values. The plan will also provide new use facilities and reconstruction of existing facilities that will enhance visitor enjoyment of the property. The mitigation plan is currently under review of the MA Aeronautic Commission, FAA, and Conservation Commission.

MDC Reservation Scenic Enhancement Program: Landscape Architect Charles Eliot's vision for the Metropolitan Boston Park System included preservation of the major landscapes of the metropolitan region including the rock hills, river corridors, and coastline of the area. Preservation was to preserve environmental resources and landscape scenery and to make these available to residents. Through the more than 100 years since these lands have passed into public ownership many of these landscape characteristics have changed. One of the most dramatic changes has been that open fields and hilltops have become forests, reducing landscape diversity and scenic vistas. This program was developed to recover vistas from hilltops, views to rivers, vistas from parkways, and create open field habitat. Work was undertaken by Reservation Division staff and under the annual Parkway Landscape Improvements contract.

Montello Street Park, Brockton: The first construction contract to develop the proposed Salisbury Greenway was a new passive streamside park adjacent to downtown Brockton. The city acquired the 1.5-acre parcel with assistance from the state Self Help Program. Park development was undertaken with a grant from the Urban Self-Help Program. The project included shoreline stabilization, a pedestrian bridge, picnic areas, benches, lighted walkways, enhanced park/greenway entrances, lighting, and planting. The brick entrance pillars and granite greenway logo plaque has become a standard for use throughout the Salisbury Greenway as it is further developed.

Lynn Shore Drive Parkway and Reservation Reconstruction: Reconstruction of parkway, seawalls, overlook plaza, walkways, playground, handicap access, and landscape along 2-mile oceanfront parkway.

Don Kent Park, Quincy Shore Reservation: This new half acre park was built on the site of a former carpet store operated by one of New England's first weather forecasters, Don Kent. The site overlooks Wollaston Beach and Quincy Bay. The park includes walkways, benches, and plantings. A granite plaza contains a viewscope for watching boating and other activities on the bay and engraved interpretive stones highlighting weather terms and major weather events in the Boston area.

Kelly's Landing, South Boston: For many years Kelly's Landing was a favorite spot to pick up a bite to eat on the South Boston waterfront, operated on a site leased from the Metropolitan District Commission. When the building fell into disrepair, the Commission discontinued the lease, demolished the building, and redeveloped the site as an area for sitting and viewing activity in the Old Harbor section of Boston Harbor. The plaza includes a new railing, benches, planters, and decorative paving. The planting scheme includes spring flowering trees, ornamental grasses, and seasonal flowers displays. The site is now a focal point for watching activity on the docks of yacht clubs in the harbor.