SECTION 7. REFERENCES

BETA
ENGINEERING SUCCESS TOGETHER

Hans Larsen, Director of General Gov. Services
Town of Wellesley
Washington Street
Wellesley, MA
(617) 431-1019

Robert L. Moylan, Jr., P.E. Commissioner Department of Public Works and Parks
City of Worcester
20 East Worcester Street
Worcester, MA 01604
(508) 799-1430

Richard Merson, Director
Department of Public Works
Town of Needham
470 Dedham Avenue
Needham, MA 02492
(781) 455-7534

Horsley Witten Group
Sustainable Environmental Solutions

Judith Robbins, Chair
Attleboro Redevelopment Authority
City Hall
77 Park St.
Attleboro, MA 02703
508-223-2222

David Gould, Environmental Manager
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360
508-747-1620 x134

PARK PLANNING ASSOCIATES

Terry Driscoll
Former Milton Park Commissioner
781-828-6300

Patrick Willoughby
Wellesley College Sustainability Director
781-283-2755

Testimonial
"The professionals at BETA are as good, or actually far superior, than any other consulting firm I've worked with. **BETA's innovative approach to solving complex issues has proven to be very successful.** In addition, their attention to detail, which ensures that nothing is being overlooked, has been extremely valuable to the Town."

Town of Wellesley, MA

TOWN OF WELLESLEY
WELLESLEY, MASSACHUSETTS 02481

STEPHEN S. FADER, P.E.
TOWN ENGINEER

DOUGLAS R. STEWART, P.E.
ASSISTANT TOWN ENGINEER

2 MUNICIPAL WAY
781-235-7600
FAX 781-237-0047

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

December 14, 2010

Frank J. Romeo, President
BETA Group, Inc.
6 Blackstone Valley Place
Lincoln, RI 02865

Reference: Performance of Kien Y. Ho

Dear Mr. Romeo:

BETA Group has worked with the Town of Wellesley for the past twenty (20) years providing a diverse range of professional engineering services. Whether, BETA provided traffic engineering services to the Board of Selectmen or served as an on-call professional engineering consultant to the DPW Engineering Division, your personnel have, for the most part, provided timely skilled technical services of the highest quality.

In recent years, the main reason for our satisfaction with BETA's services has been the individual performance of Mr. Kien Y. Ho. Mr. Ho, an Associate with BETA Group has continually provided the Town of Wellesley with the highest level of traffic engineering, highway and street and roadway design services on a diverse range of projects. Whether it be a review and analysis of a particular intersection or the design of the reconstruction of Weston Road, Mr. Ho conducts his activities with the highest degree of professionalism with little or no reminder or prodding required to provide the requested data, information, design, or recommendations. As a resident of Wellesley, Mr. Ho takes great pride in the services he provides to us and does so on a continuous basis. His attention to detail, particularly with respect to the operation of the Town's new video monitored traffic signal system, represents the best of what Mr. Ho offers the Town of Wellesley and results in the continuation of excellent rapor and reputation between BETA and the Town of Wellesley.

BETA Group is extremely fortunate to have Mr. Kien Y. Ho as a member of its technical staff and its management team. The Town of Wellesley benefits greatly by having the ability to call on Kien Ho to address its more complex and controversial traffic engineering needs. We look forward to continue working with Mr. Ho in the future.

Very truly yours,

Stephen S. Fader, P.E.
Town Engineer

Cc: H. Larsen
M. Pakstis

On-Call Traffic Engineering Services - Fuller Brook Park High Visibility Pedestrian Signal System

Wellesley, MA

Reference:
Mr. Hans Larsen
Executive Director of General Government
525 Washington Street
Wellesley, MA 02482
(781) 431-1019

Status:
1998-Present

Key Personnel:
Frank Romeo, P.E.
Kien Ho, P.E., PTOE
Phil Paradis, P.E., LEED AP
Jaklyn Centracchio

Contract Value:
$200,000

As part of the On-Call services, BETA had designed and installed many High Visibility Pedestrian Signal Systems throughout the Town including crosswalk locations along the Fuller Brook Park Trail at Grove Street, Wellesley Ave and Forest Street. The High Visibility Pedestrian Signal system supplements the crosswalk striping and signage to provide a safer crossing for pedestrian and trail users. As part of the traffic calming project for the Cottage Street and Abbott Road neighborhoods, BETA had recommended High Visibility Pedestrian Signal system for the Fuller Brook Park crosswalk locations at Cottage Street and Abbott Road. These recommendations will need to be integrated into the Full Brook Park Phase 3 design.

Wellesley Comprehensive Townwide Pedestrian Plan Development

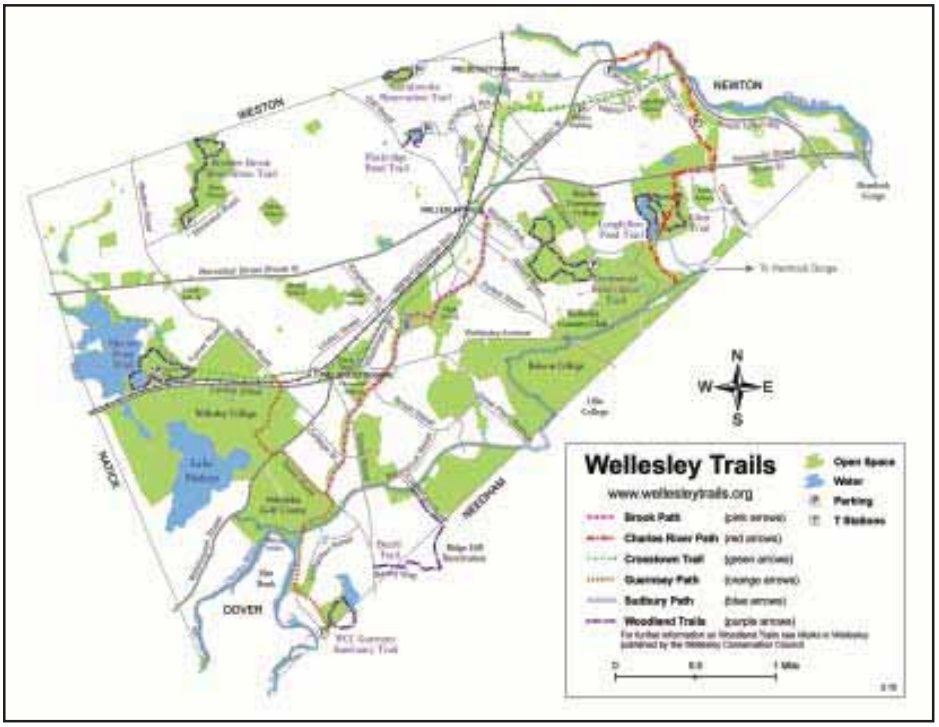
Wellesley, MA

Reference:
Meghan Jop, AICP
Planning Director
525 Washington Street
Wellesley, Massachusetts 02482
(781) 431-1019, ext. 2232

Status:
Completed

Key Personnel:
Kien Ho, P.E., PTOE
Jaklyn Centracchio

Contract Value:
$10,000



BETA participated in the Comprehensive Townwide Pedestrian Plan Development for the Town.

This project was conducted in response to the 2008 Wellesley Comprehensive Master Plan calling for a comprehensive approach to issues affecting pedestrians in town. It provided guidance and tools to chart the future of walking in Wellesley. BETA served on the Walkways Task Force committee that guides the development of the Pedestrian Plan development process in close coordination with staff from the Town Planning Department, the Zoning Board, the Department of Public Works, School Department, Police, Trails Committee, Chamber of Commerce, the local business community, and interested residents.

An "action plan" summarizing the strategies for pedestrian improvements identified by the Walkways Task Force was developed. The plan consisted of three steps:

• Immediate Step: These strategies are recommended to be pursued as soon as possible. They represent actions that can begin to be undertaken by the Town immediately, and they are considered to be the most critical for improving Wellesley's walking environment.
• Short-Term Step: These strategies are suggested for integration in short-term planning work. While several could begin to be implemented today, most require a degree of planning and coordination to be successfully implemented and identifying funding source.
• Long-Term Step: The final set of strategies in the action plan requires a greater degree of planning, stakeholder coordination, and/or financial support. While these strategies will greatly benefit Wellesley's walking environment, they are not expected to be implemented in the short-term.

Beaver Brook Park Improvements

Worcester, MA

Project Reference:
Robert L. Moylan, Jr., P.E.
Commissioner
Department of Public Works and Parks
City of Worcester
20 East Worcester Street
Worcester, MA 01604
(508) 799-1430

Status:
Completed

Key Personnel:
Randall Collins, RLA, ASLA
Kevin M. Aguiar, P.E.
Joe DiPilato

Project Overview:

- Daylighting of Over 850 Linear Feet of Stormwater Culvert
- Restoration and Improvements to Existing Park Facility
- Culvert Daylighting Components: Establishing & Stabilizing Channel Slopes, Native Planting Scheme and Pedestrian Bridge Connection Between Parking and Park
- Park Components: Little League Field, Lighted Football Field, In-line Hockey Rink, Two Softball Fields, Walking Trails and Picnic Area
- Perimeter Drain System Around all Ballfields
- Low Impact Design for Stormwater Drainage
- Extensive Site Plantings
- Lighted Path and Parking Areas

Design Services:

- Master Planning and Cost Estimating
- Preliminary to Final Design
- Irrigation Design
- Wetland Permitting
- Utility Service Design (Elec. & Water)
- Services During Construction

Lake Avenue North Bike Path Feasibility Study

Worcester, MA

Project Reference:
Robert L. Moylan, Jr., P.E.
Commissioner
Department of Public
Works and Parks
City of Worcester
20 East Worcester Street
Worcester, MA 01604
(508) 799-1430

Status:
Ongoing

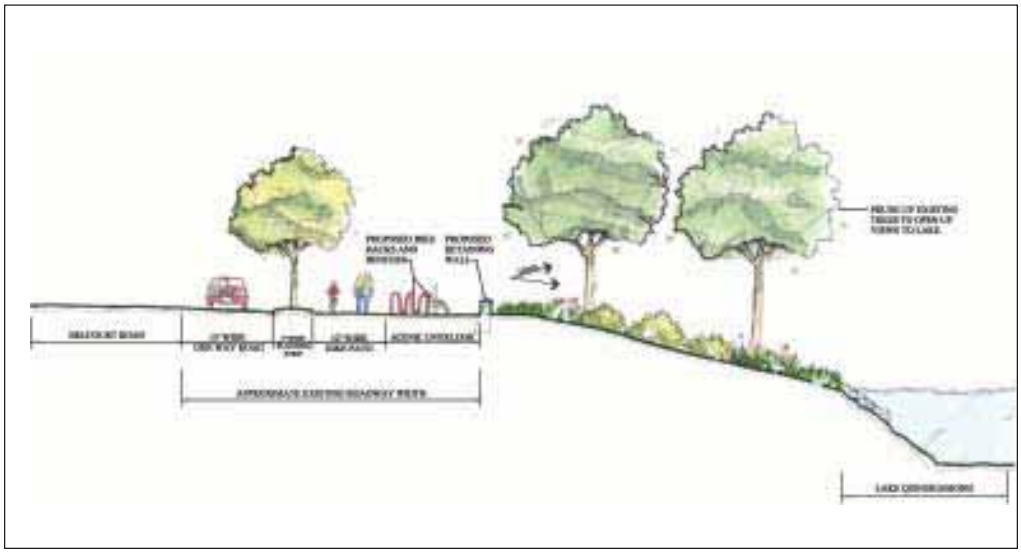
Key Personnel:
Randall Collins, RLA, ASLA
Darren Hayward, P.E.

Overview

- Establish a Three Mile Multi-Use Trail along the West Bank of Lake Quinsigamond
- Provide a Connection Between State and Municipal Parks and Recreation Facilities
- Provide a Connection to the East Side Trail and the City Wide Trail System
- Improve Public Access to Lake Quinsigamond
- Provide Numerous Overlooks to the Lake and for the Many Regatta Events
- Establish a Public Greenspace for Passive Recreation
- Low Impact Design for Stormwater Drainage
- Extensive Site Plantings
- Lighted Path and Parking Areas

Design Services:

- Master Planning and Cost Estimating
- Preliminary Design to Final Design for Phase I



Cheney Bridge Rehabilitation

Dover/Wellesley, MA

Reference:
David Lenhardt, P.E.
Supervisor Parkways & Bridges
Department of Conservation and Recreation
251 Causeway Street
Boston MA 02114
617-626-1499

Status:
Completed

Key Personnel:
Chris Jones, P.E.
Mark Gershman, P.E.
Todd Warzecki, P.E.
Rajan Patel

BETA was retained by DCR to provide the required engineering design services for the Cheney Bridge Restoration project. The bridge, originally constructed in 1897, is located in the Elm Bank Reservation and is listed on the National Register of Historic Places. The structure consists of a steel spandrel-braced three-hinged arch with an overall span of 60 feet. BETA's work consisted of the rehabilitation of the bridge railings, lighting system, substructure elements, and the roadway approaches. In addition, the steel arches were cleaned and painted. All items of work were designed and detailed to replica the existing architectural historic elements of the bridge.

As part of the project, work activities on bridge deck were minimized such that vehicular and pedestrian traffic could be maintained at all times.

On-Call Engineering
Wales St Bridge over the Charles River

Wellesley & Newton, MA

Reference:
Mr. Stephen S. Fader, P.E.
Town Engineer
Department of Public Works
455 Worcester Street
Wellesley, MA 02481

Status:
2007-Present

Construction Value:
$250,000

Key Personnel:
Christopher Jones, P.E.
Mark Gershman, P.E.
Todd Warzecki, P.E.
Phil Paradis, P.E., LEED AP

BETA performed an inspection and rehabilitation design of the Wales Street Bridge over the Charles River, which is jointly owned by The towns of Wellesley and Needham.

This bridge, built in 1928, is a concrete arch with stone facing. BETA's inspection determined that although the structure was in good condition overall, the nearby construction of an interchange for Route 128 had had a negative impact on this bridge's vehicle barrier. The Route 128 interchange construction had required a significant raise in grade only a few hundred feet from the bridge. The impact from this raise had carried onto the Wales Street Bridge in the form of additional fill over the arch. However; the additional fill was not accompanied by an increase in height of the bridge's parapets. In some places, the parapets were as low as 12” above the sidewalk.

BETA designed a rehabilitation program to replace the parapets with a vehicle barrier designed to current crash-tested standards. Because the arch's spandrel walls had not been designed to absorb vehicle impact loads, the new parapets were isolated from those walls and instead connected to overturning slabs that were integral with the sidewalks. The parapets were designed to have a concrete core with a stone facing. The stone facing will be cut from the existing stones from the parapets to be demolished.

Broad Rock Recreation Facility

South Kingstown, RI

Project Reference:
Andrew E. Nota, Director
Parks & Recreation Department
Town of South Kingstown
325 Columbia Street
Peace Dale, RI 02883
(401) 789-9301

Status:
Completed

Key Personnel:
Randall Collins, RLA, ASLA
Kevin Aguiar, P.E.
Darren Hayward, P.E.

Project Overview:

- Shared Recreation Facility Between Parks and School Departments
- Final Design and Construction in Two Phases
- Phase I Components: Baseball Field, Lighted Softball Field, Multipurpose Field, Restrooms & Storage Building, Lighted Access Road & Parking Lot and Bike & Pedestrian Trail Connection to Nearby Recreation Facility
- Phase II Components: Little League Field, Overflow Parking Lot, Six Tennis Courts and Measured Mile Walking Track
- Under Drain System on all Ballfields
- Low Impact Design for Stormwater Drainage
- Extensive Site Plantings

Design Services:

- Master Planning and Cost Estimating
- Preliminary to Final Design
- Irrigation Design
- Wetland Permitting
- Utility Service Design (Elec., Phone, Water & Sewer)
- Restroom and Storage Building Design
- Services During Construction

Stormwater Migitation Design to Support Wetland Restoration Project

Tidmarsh Farms, Plymouth, Massachusetts

Tidmarsh Farms is situated on a 577-acre property in Plymouth, Massachusetts. Located within a mile from the ocean, the property is the site of a wetland restoration effort that will transform 120 acres of cranberry bogs into a variety of native wetland types.

The Horsley Witten Group, Inc. (HW) has been contracted by Tidmarsh Farms to conduct a feasibility analysis for the restoration of a stream and associated vegetated wetlands, and design a stormwater treatment system to mitigate pollutant loading from a cranberry bog on an adjacent, upgradient property.

HW designed a stormwater treatment train that includes an upflow bioretention cell, followed by an infiltration system that is designed to treat both cranberry bog drainage discharges during seasonal releases of frost protection and harvesting practices as well as stormwater runoff events. The treatment design was reviewed favorably by Natural Resources Conservation Service (NRCS) staff.

Client Contact:
Gloria Deavenport
Tidmarsh Farms
617-642-7934

HW Contact:
Scott Horlsey, LEED AP

www.horsleywitten.com

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- Land Use Planning
- Education & Outreach

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Sandwich, MA 02563
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Newburyport, MA
30 Green Street
Newburyport, MA 01950
tel: 978-499-0601

Providence, RI
370 Ives Street
Providence, RI 02906
tel: 401-272-1717

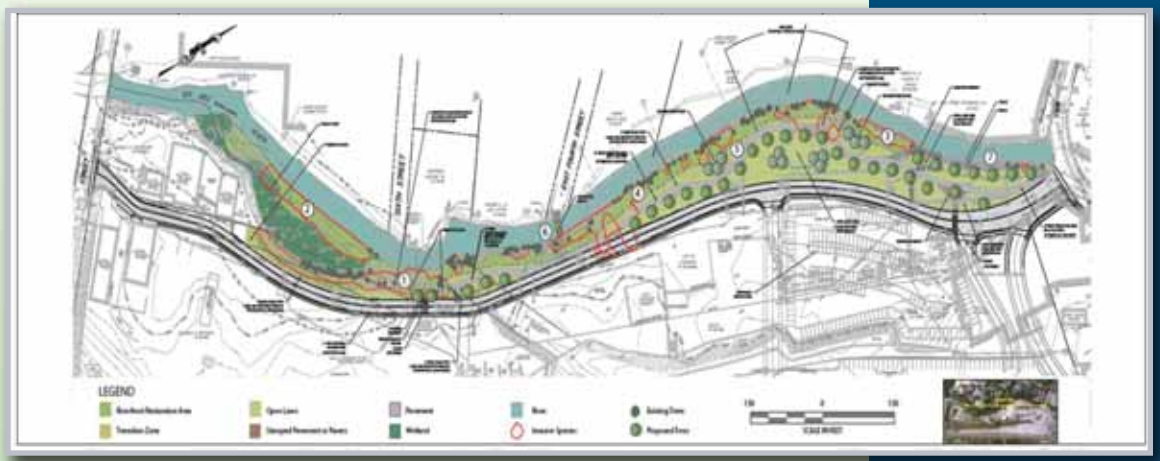
Ten Mile River Bank Stabilization and Restoration Project

City of Attleboro, Massachusetts

The Attleboro Redevelopment Authority (ARA) received funding from a supplemental environmental program (SEP) fine for a river bank restoration project on the Ten Mile River as part of their downtown urban renewal plan. The Horsley Witten Group, Inc. (HW) has been contracted to develop a design for the site that includes stabilizing and restoring approximately 1,800 linear feet of river bank and associated resources between a new street, the Wall Street/Olive Street Connector Road, and the Ten Mile River. In addition, this project includes the design of a transit-related multi-use path and associated landscaping.

HW has prepared a planning level concept for the proposed river restoration to approximately the 10% design level and has presented the plan to stakeholders at a public meeting. The concept plan includes three main aspects: the proposed limits of bank stabilization measures, areas for invasive species management and riverfront area restoration, and a transit-related multi-use path layout.

Once the concept plan has been finalized, HW will continue to develop 75% design plans; secure necessary local, State, and Federal permits and approvals; and complete the construction documents for the project.



Client Contact:
Judith Robbins, Chair
Attleboro Redevelopment Authority
508-223-2222

HW Contact:
Richard A. Claytor, P.E.

www.horsleywitten.com

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In-Situ Wetland Restoration

Town of Greenfield, Massachusetts

The Horsley Witten Group (HW) evaluated wetland restoration options for mitigating the impacts to a Bordering Vegetated Wetland (BVW), at a gravel mining and fuel storage depot in Greenfield, Massachusetts. Prior site assessment activities detected hydrocarbon contaminants within the soils and groundwater within the BVW, a protected wetland resource area pursuant to the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131 § 40) and the Greenfield Wetlands Protection Ordinance (Chapter 195).

The contaminated sediments within the underlying soils presented an unacceptable risk to human health and the environment and exceeded the Massachusetts Contingency Plan cleanup standards, requiring response including removal of the contaminated sediments and unavoidable impacts to the wetland.

HW designed the in-situ wetland restoration to include removal and replacement of underlying contaminated sediments; regrading; replacement of organic rich topsoil; re-vegetation with native wetland species, and implementation of an invasive species management plan to address the presence of the invasive species purple loosestrife (Lythrum salicaria). The plan also provides for the re-establishment of a hydrologic connection between the wetland and existing stream channels, and for restoration and enhancement of the locally-regulated 25-foot buffer zone around the restored wetland.

Remediation activities took place in the fall of 2009. Wetland restoration activities commenced in the spring of 2010, and the first year of monitoring has been completed as of October 2010. Newly restored, the BVW is anticipated to provide similar functions and values as the previous wetland, but will contain lower levels of petroleum contamination, and enhanced plant communities within the wetland as well as within the surrounding buffer zone, thereby contributing to the interests of the state Wetlands Protection Act and the local Wetlands Protection Ordinance.

Client Contact: Eric Nelson
SVE Associates
413-774-6698

HW Contact:
Amy Ball, CWS

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8066

Rain Garden Implementation for Water Street Park

Town of Plymouth, Massachusetts

Water Street Park is immediately adjacent to Plymouth Harbor and fronts along the highly visible Mayflower II dock. Stormwater runoff from the upland drainage area discharges into Plymouth Harbor at the Samoset Street Outfall. This outfall is an area of significant concern to the Town because Plymouth Harbor and Plymouth Bay are home to numerous acres of historic shellfish beds that have been closed for decades due to poor water quality.

As part of a comprehensive evaluation of the watershed, Horsley Witten Group, Inc. (HW) identified the Water Street Park as an ideal location to implement a rain garden to manage runoff from the 4.5-acre contributing drainage area. The location for this facility provides a unique opportunity to educate the public about the potential impacts of stormwater runoff on aquatic resources, and to highlight the significant efforts that are being made by the Town to improve the water quality in Plymouth Harbor.

HW provided full engineering services, including:

- Concept development;
- Surveying and soils evaluations;
- Final engineering and specifications;
- Permitting;
- Construction administration; and
- Record drawings and grant administration.

Client Contact: Mr. David Gould
Environmental Manager
508-747-1620 x 134

HW Contact:
Rich Claytor, P.E.

www.horsleywitten.com

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Horsley Witten Group

Project Description

Assessment and Design of Stormwater Management Measures

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- Stormwater Management
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- Site Assessment & Remediation
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Bare Hill Pond Watershed Management Committee

Bare Hill Pond is a 320-acre, municipally-owned lake in the Town of Harvard, Massachusetts. The lake exhibits impaired water quality and eutrophic conditions as a result of excessive phosphorus. The phosphorus loading is derived from a variety of sources including stormwater runoff from the contributing watershed. In addition, bacteria loading from stormwater runoff is also a concern because the Town has a public swimming beach on the pond.

The Bare Hill Pond Watershed Management Committee retained the Horsley Witten Group, Inc. (HW) to conduct a watershed assessment for the 270-acre Harvard Village Center. This assessment identified the best available locations for managing the phosphorus, bacteria, and sediment loading in the watershed stormwater, as well as the most appropriate best management practices (BMPs) for each location.

HW then designed and permitted several community-level BMPs throughout the village center, including gravel-based constructed wetlands, bioretention areas, and water quality swales. These concepts were included in a successful application for a Clean Waters Act Section 319 Grant and were constructed in Summer 2010.

Client Contact:
Nick Browse, Committee Member
Bare Hill Pond Watershed Management Committee
978-456-8281

HW Contact:
Michelle West, P.E.

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90 Route 6A
Sandwich, MA 02563
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7143

Horsley Witten Group

Project Description

Environmental Permitting for the Eel River Headwaters Wetlands Restoration and Dam Removal Project

Massachusetts Coastal Zone Management and Wetlands Restoration Program and the Town of Plymouth

The Town of Plymouth, through a collaborative effort with federal and state governmental partners and private consultants, has completed the permitting and construction of an award-winning restoration effort within the headwaters of the Eel River in Plymouth, Massachusetts. Restoration efforts include conversion of approximately 40 acres of retired commercial cranberry bogs to a natural riparian wetland system, and the removal of a portion of a historic stone sawmill dam. The project converted these areas into critical wetland and cold-water stream habitat, thus restoring a more natural hydraulic gradient and improved fish passage within the Eel River and improving water quality in downstream waters including Plymouth Harbor. The river channel itself is restored to a natural meandering stream and the bogs restored to Atlantic White Cedar Swamp and Red Maple Swamp wetland habitats. This restoration ecosystem is envisioned to be similar to what may have existed for the headwaters area in pre-colonial times.

The Horsley Witten Group, Inc. (HW) provided pro-bono services through the Massachusetts Corporate Wetlands Restoration Program (CRWP) to assist the project partners with the creation of a sediment sampling plan and an Environmental Notification Form as part of the Massachusetts Environmental Policy Act (MEPA) review process, for which a Certificate was issued by the Massachusetts Executive Office of Energy and Environmental Affairs. HW has also prepared a federal Environmental Assessment (EA) under the National Environmental Policy Act (NEPA), a Notice of Intent application with the local Conservation Commission, an Individual Permit with the Army Corps of Engineers, and addressing Massachusetts Coastal Zone Management (CZM) consistency. The Project Team was honored with the Coastal Wetlands Restoration Partnership (CWRP) Award in June 2011 for their collective efforts to this restoration success.

Client Contacts:
David Gould, Environmental Manager
Town of Plymouth
508-747-1620 x134

Jeremy Bell
MA Coastal Zone Management

HW Contact:
Neal Price

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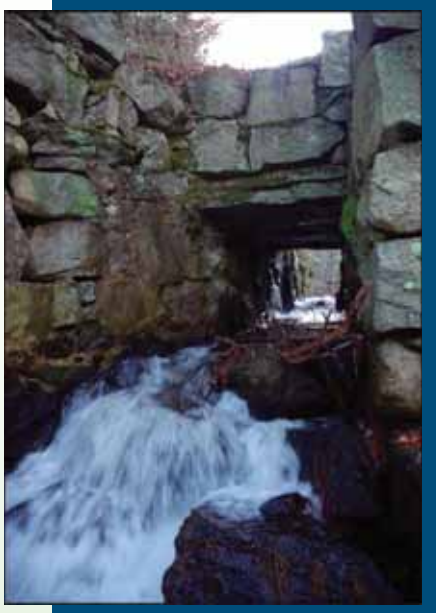

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Horsley Witten Group

Project Description

Somerset Skating Marsh Restoration Project

Somerset, Massachusetts

As with many coastal tributaries, Labor in Vain Brook and its surrounding wetland communities suffer from restricted tidal flow as a result of undersized culvert crossings, resulting in the proliferation of the non-native invasive species, Phragmites australis. Horsley Witten Group, Inc.(HW), in association with New England Environmental (NEE), was retained by the Massachusetts Riverways Program and the Massachusetts Wetlands Restoration Program, Massachusetts Coastal Zone Management Office (CZM) to evaluate the feasibility and costs of replacing three culverts, estimate tidal flow, evaluate habitat improvements and other benefits of restoring optimal tidal flushing into the marsh and develop design plans and details for replacement of existing culverts.

HW was contracted separately by the Town of Somerset to obtain wetlands permits through various federal, state, and local regulatory agencies to permit the replacement of the most-upgradient culvert to improve tidal flushing and water quality, allowing for the restoration of approximately 11 acres of coastal and freshwater wetlands.

Project implementation required permits under the Massachusetts Wetlands Protection Act, the Massachusetts Public Waterfront Act, and the Federal Clean Water Act, as well as mandatory review under the Massachusetts Environmental Policy Act. The project was fully permitted, and construction is anticipated to begin in the spring of 2010.

Client Contacts:
Thomas Fitzgerald
Somerset Highway Department
508-646-2835

Jeremy Bell
Massachusetts Wetland Restoration Program
617-626-1264

HW Contact:
Rich Claytor, P.E.

www.horsleywitten.com

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Scorton Creek Salt Marsh Restoration Project

Coastal Zone Management Wetlands Restoration Program, Massachusetts

Many years ago, game managers of the former Massachusetts State Game Farm in East Sandwich created a tidal restriction by constructing a dam, road access, and tide gate that blocked tidal flushing to the headwaters of Scorton Creek. The purpose of the dam was to eliminate the salt marsh to create a freshwater pond for raising trout. The Massachusetts Office of Coastal Zone Management Wetlands Restoration Program, and the Massachusetts Corporate Wetlands Restoration Program teamed up with other federal agencies and Ducks Unlimited to remove the dam and increase tidal flushing to help restore an upstream salt marsh and to enhance fish migration potential to the Creek.

The Horsley Witten Group, Inc. (HW), as a Corporate Wetlands Restoration Partner, provided services to assess alternative options for opening the tidal restriction and to design, permit and oversee construction of a pedestrian bridge over Scorton Creek. The goal was to restore tidal flow to an approximately 8-acre potential marsh area upstream of the existing impoundment.

As part of the project, HW evaluated hydrologic conditions at the site, modeled alternative openings, including various culvert options and a single span bridge. HW designed the replacement bridge opening, evaluated the potential increase in tidal flushing, specified wetland planting for disturbed areas, obtained all necessary permits, and provided construction administration services of the new bridge and channel opening. The bridge has been in place since 2007 and tidal flushing is identified on both sides of the bridge. Fish species diversity has increased dramatically and Phragmites is on the decline.

Client Contact:
Mr. Tim Smith, Restoration Ecologist
Cape Cod National Seashore
508-487-3262 x 107

HW Contact:
Richard A. Claytor, P.E.

www.horsleywitten.com

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Attleboro Redevelopment Authority

Ten Mile River Bank Stabilization and Restoration Project - Concept Plan

Horsley Witten Group
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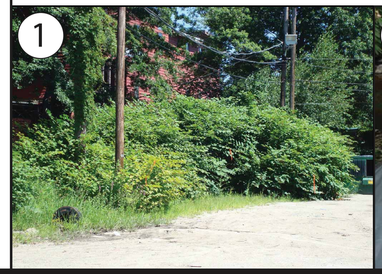
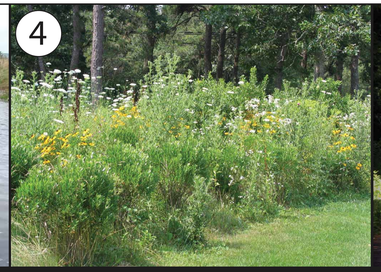
90 Route 6A • Sandwich, MA • 02563
Tel: 508-833-6600 • Fax: 508-833-3150 • www.horsleywitten.com



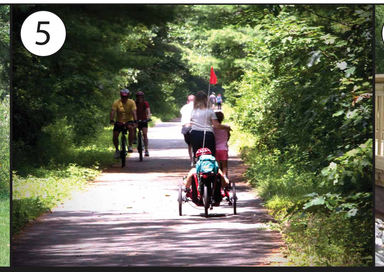
Japanese Knotweed is an invasive species that currently dominates the disturbed site, choking out native plants and reducing wildlife habitat. Other invasives at the site include Multiflora Rose and Purple Loosestrife.

Black plastic is the best way to control Japanese Knotweed in sensitive riverbank areas. Herbicides are effective in upland areas when carefully applied under specified conditions by a licensed herbicide applicator.

A combination of "soft solutions" such as coir fiber logs (shown here), jute matting, live staking, and log reinforcements are proposed at the site to stabilize eroding banks.



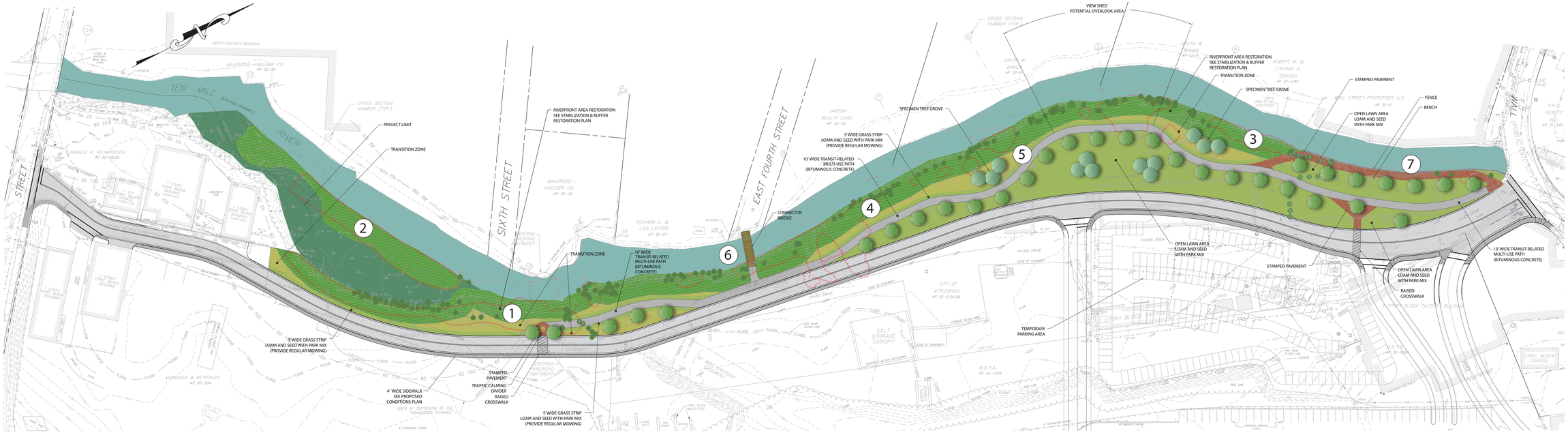
Native plantings similar to those found at the site are proposed to restore the disturbed riverfront area. Examples of proposed species include Red Maple, Silky Dogwood, Spicebush, and a variety of native wildflowers.



The proposed transit-related path is meant for many uses, from recreational walkers to commuting bikers.

A bridge similar to this one is proposed to connect East Fourth Street to the path.

This is an example of an ornamental fence proposed on the portion of the path along the existing retaining wall near Wall Street.



LEGEND

- Riverfront Restoration Area
- Transition Zone
- Open Lawn
- Stamped Pavement or Pavers
- Pavement
- Wetland
- River
- Invasive Species
- Existing Trees
- Proposed Trees

150 0 150

SCALE IN FEET

PARK PLANNING ASSOCIATES

Project Profile

Title: Environmental Remediation of Former Henry Wood Paint Factory;
Wellesley College West Campus Athletic Complex

Client: Wellesley College

Role: Peter Jackson was Project Manager responsible for site planning, civil, structural, electrical, and mechanical engineering design, architecture, and landscape architecture.

Scope: Planning, design, and construction support for environmental cleanup and restoration of approximately 45 acres of contaminated lake, brook, wetlands, and upland from historic use of site as a paint factory. Project included clean up of contaminants, encapsulation in an on-site landfill, restoration of lake edge, reconstruction of brook and wetlands, design and construction of stone arch bridge, stone walls, wetland boardwalk, softball, soccer, and field hockey fields, running track, and a maintenance building.

Design Cost: $700,000

Construction Budget: $26,000,000

Duration: Planning and Design 2 years; Construction 2 years.

References: Wellesley College, Patrick Willoughby, Sustainability Director, 781-283-2755
Team Leader, Kevin Hines, Richard White Sons, 617-332-9500

PARK PLANNING ASSOCIATES

Project Profile

Title: Neponset Riverwalk, Quincy

Client: City of Quincy, Massachusetts

Role: Site Plan, Permitting, and Construction Documents

Scope: The project is part of a larger effort to expand a system of waterfront paths and walkways along the Neponset River shoreline in Quincy. Planning for the Riverwalk began in 2000 and portions of the walk have been completed previously. The current project includes approximately 1350 feet of a soft-surface path on land owned by Boston Scientific Corporation and the Department of Conservation and Recreation. The site includes and old asphalt pathway that is significantly deteriorated. The current project is funded by a grant from the Quincy Community Preservation Fund. Construction funding will be sought through the DCR Recreational Trails Program. The path as currently proposed is 6-8 foot wide dense graded crushed stone path with under path drainage connections in areas of wetland fill. The entire site is within regulated wetlands and an ACEC requiring extensive state and local permitting.

Planning/Design Cost:	$25,000
Construction Budget:	$ 150,000
Duration:	Currently in Design
Contact:	Christopher Walker, Director of Policy, 617-376-1990 Maura O'Gara, Quincy Environmental Network, 617-302-0150

PARK PLANNING ASSOCIATES

Project Profile

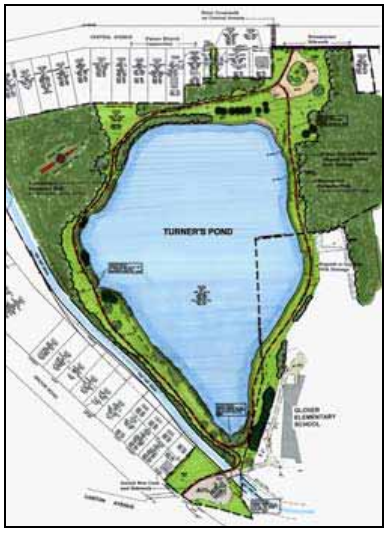
Title: Turner's Pond Accessibility Project
Milton, Massachusetts

Client: Milton Park Department

Role: Park Planning Associates was responsible for the entire project scope.

Scope: Turner's Pond, an open body of water just over 11 acres and completely surrounded by an unpaved walking path, approximately 3,500 feet in length, is a remarkable natural resource within a well developed residential area in the Town of Milton. The pond is heavily used by walkers, fishermen, and children walking to an adjacent elementary school. The pathway was not handicap accessible due to inaccessible and uneven soil surface and poor drainage. Both off-site drainage and high water made a significant portion of the path impassible for several months a year. The purpose of the project was to develop a fully accessible year-round path. The solution included two path surfaces, soil stabilizer in the better drained section and crushed stone where seasonal high water would reach into the path base. Under-path siphons transport water across the path in three critical areas. The project included working with the Park Department and a Citizen's Advisory Committee, developing a questionnaire, presenting the plan in public meetings, to Selectmen, and to Town Meeting, and developing grant proposals to a local foundation and to the DCR Recreational Trails Program. It also included final design, permitting, and construction phase support services.

Planning/Design Cost: $ 25,000
Construction Cost: $190,000
Duration: 3 years
References: Terry Driscoll, former Milton Park Commission, 781-828-6300
Dave Perdios, Park Superintendent, 617-898-4941



PARK PLANNING ASSOCIATES

Project Profile

Title: Blue Hills Trailside Museum
Client: Massachusetts Audubon Society,
Milton Garden Club,

Role: Peter Jackson has been involved with several planning, design, and construction efforts at Trailside Museum for more than 15 years.

Scope: Projects undertaken at the Trailside Museum over the past 15 years include conceptual site plans for the outdoor areas in 1996 and 2006, construction plans and permitting for the PondWalk, planting plans for the Milton Garden Club for the PondWalk, a hemlock preservation program using basal injections, and site concept plan and planting plans for a new. Work has included design, permitting, construction support, native plantings, and both hard and soft surface paths.

Planning Cost: Several projects over multiple years
Construction Budget: Projects under contract, by museum and DCR staff, and by volunteers
Duration: 15 years
Reference: Norm Smith, Director Trailside Museum, 617-333-0690

Mount Saint Charles Academy

GLA

Woonsocket, Rhode Island

Project Size:

2 Acres

Project Cost:

$85,000

Project Schedule:

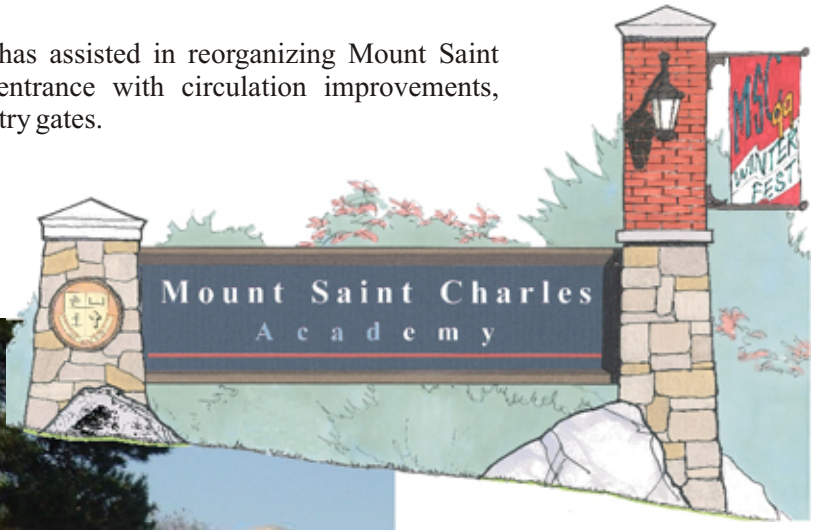
2002

Client:

Mount St. Charles Academy

The Scope of Work:

Gates, Leighton & Associates has assisted in reorganizing Mount Saint Charles Academy new front entrance with circulation improvements, roadside landscaping and new entry gates.



Gates, Leighton & Associates, Inc.
LANDSCAPE ARCHITECTURE

Port of Galilee Signage

GLA

Narragansett, Rhode Island

Project Size:

--- Acres

Project Cost:

$0,000

Project Schedule:

0000 - 0000

Client:

Rhode Island Department of Transportation

The Scope of Work:

Gates, Leighton & Associates developed an entrance sign to the Port of Galilee in Narragansett. GLA identified this fishing village's need for visual enhancement and community identification. The "Welcome to the Port of Galilee" sign picks up on the existing visual icons of the seaside community, and is coordinated with a planting and hardscape scheme which provides additional visual excitement.

Paradise Park

GLA

Middletown, Rhode Island

Project Size:

3 Acres

Project Cost:

N/A

Project Schedule:

1999 - 2002

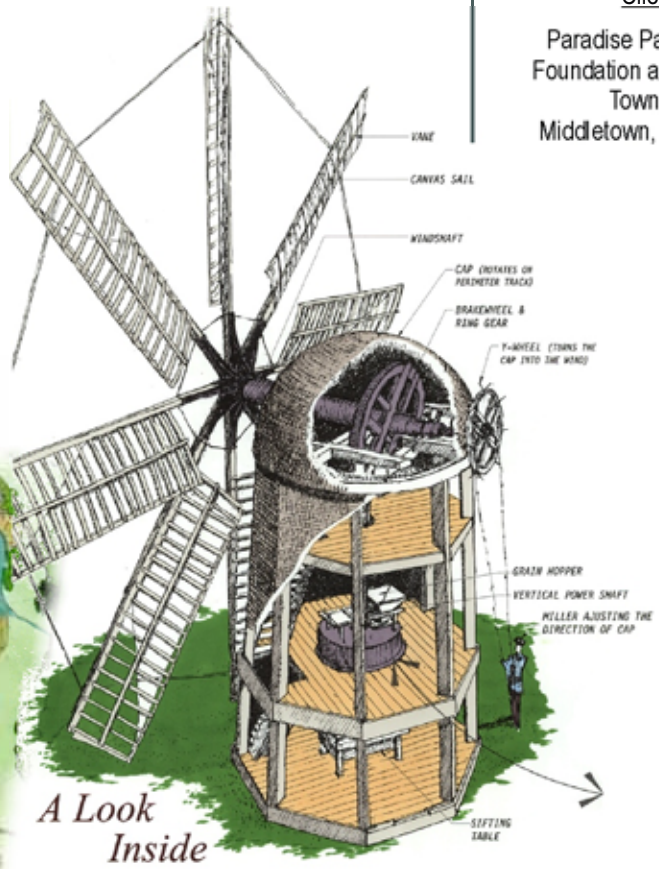
Client:

Paradise Park Foundation and Town of Middletown, RI

The Scope of Work:

Gates, Leighton & Associates designed Paradise Park in Middletown, RI to be a quiet respite and interpretive example of Middletown's agricultural past. The park features paths for strolling, areas of natural small-animal habitat, and restored meadows.

The relocation of Boyd's Windmill to the Park completed it symbolism. GLA provided the plan for the windmill site. GLA also designed and produced the interpretive panel describing the windmill and the process of restoration.



Community Kiosks & Graphic Panels

GLA

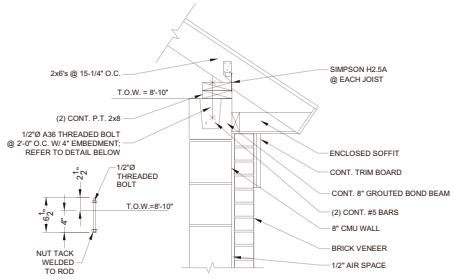
Gardiner, Maine

Project Size:
2 Kiosks
Project Schedule:
Completed 2009
Project Cost:
$32,000
Client:
Savings Bank of Maine
and
City of Gardiner

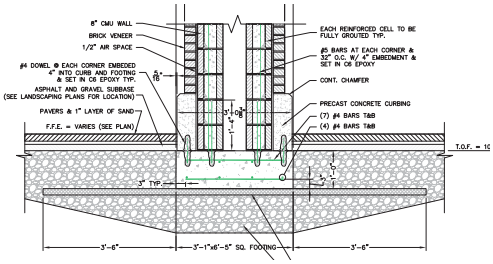
Scope of Work:

Through a partnership created in 2009, The Savings Bank of Maine Charitable Foundation and the City of Gardiner teamed up to develop a prototype community kiosk that would serve as visual gateways and provide information and local historical background for visitors. Envisioned and developed to be part of a larger wayfinding and city wide signage system, the first two kiosks were privately funded and constructed on Savings Bank of Maine property in 2009. The kiosks are constructed of brick set on a granite base, with a standing seam metal roof. The graphic panels which contain maps, aerial photos, historic photos and descriptive text are illuminated at night by lights concealed in the roof soffit. The Depot Square kiosk features graphic panels on both sides of the structure.

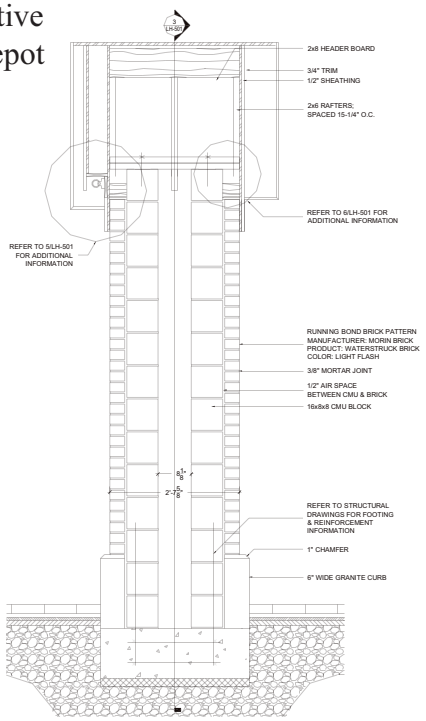
CONSTRUCTION



KIOSK EAVE DETAIL



KIOSK FOUNDATION DETAIL



SECTION ELEVATION

Gardiner Heritage Interpretive Panels

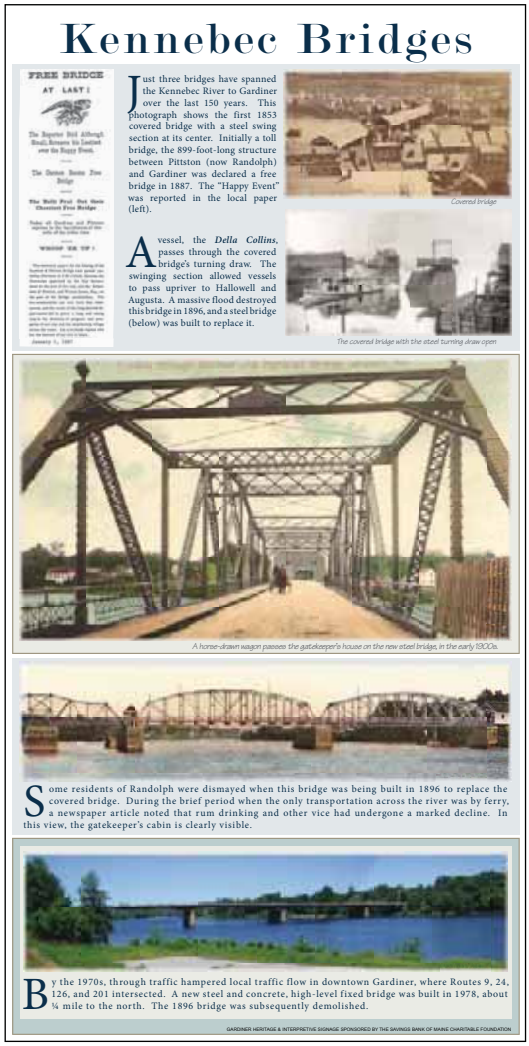
GLA

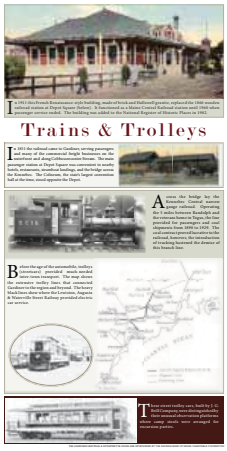
Gardiner, Maine

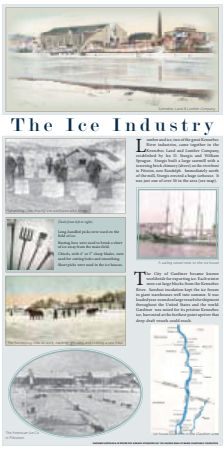
Project Size:
13 Panels
Project Schedule:
Designed 2009
Project Cost:
$32,000
Client:
Savings Bank of Maine
and
City of Gardiner

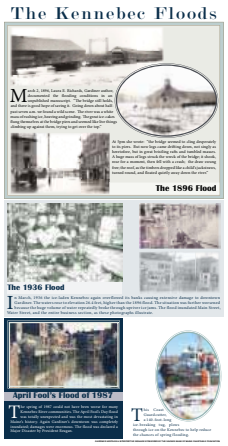
Scope of Work:

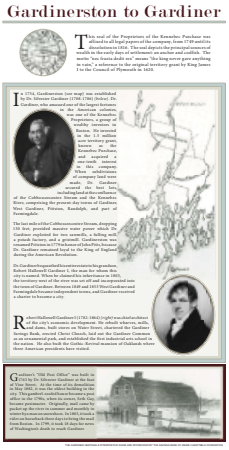
Through a partnership created in 2009, The Savings Bank of Maine Charitable Foundation and the City of Gardiner teamed up to develop a series of interpretive sign panels. Gates, Leighton & Associates, Inc. (GLA) coordinated closely with the Maine Historic Preservation Commission, Gardiner Library, Gardiner Main Street, the Gardiner Signage committee and several local historians to develop these 13 interpretive panels to provide information on local historic and cultural background for visitors. The first two stand-alone panels will be part of the newly constructed overlook deck.

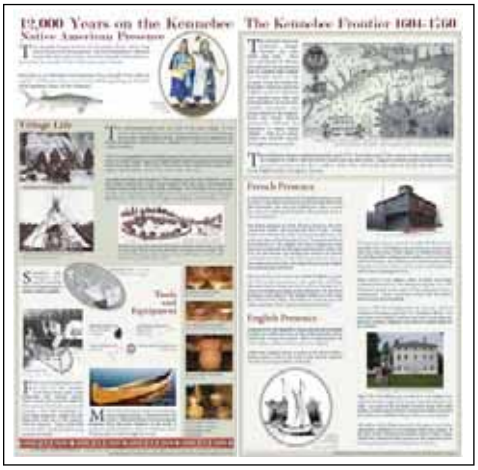


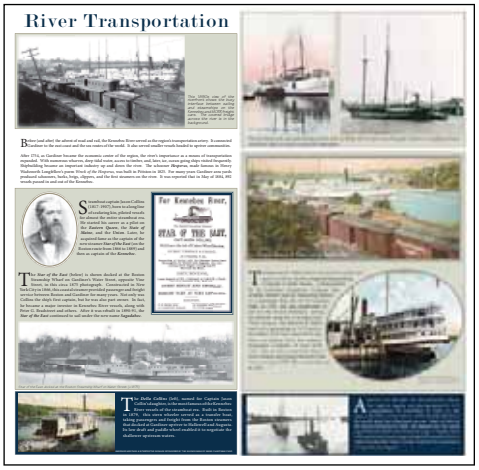












PAIRED PANELS: DOWN HISTORY / TRANSPORTATION / RIVER BASED INDUSTRY

Gates, Leighton & Associates, Inc.

LANDSCAPE ARCHITECTURE