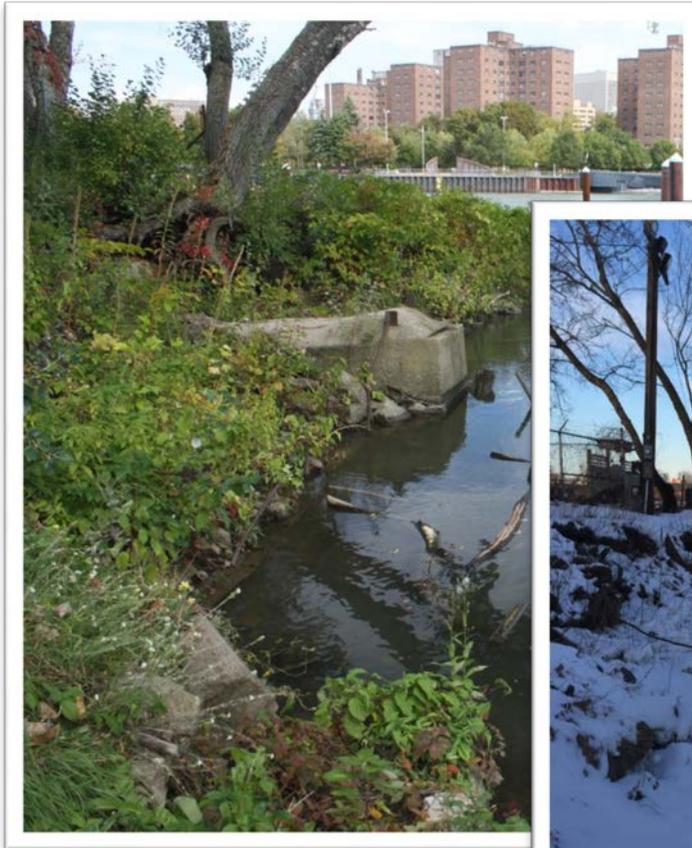


Cazenovia Community Resource Center: Sail Buffalo



Shoreline Restoration Final Design and Construction



Proposal to the Greenway Ecological Standing Committee
February 3, 2015

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APPENDIX A

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1 Cazenovia Community Resource Center General Information

Name:	Cazenovia Community Resource Center: Sail Buffalo	
Mailing Address:	2 Fuhrmann Boulevard, Buffalo, NY 14210	
Federal ID #	26-3702173	
Charities Registration	252345	
Point of Contact:	Pierre Wallinder	Suzanne Villacorta
Telephone Number:	716-432-6589	716-861-9009
Email Address:	Pierre.wallinder@gmail.com	SuzVillaco@gmail.com

2 Project Background

The Cazenovia Community Resource Center (CCRC) is a not-for-profit organization based in Buffalo, NY. CCRC operates Sail Buffalo Sailing School and Sailing Club, Buffalo's only nationally accredited sailing education program, located at 2 Fuhrmann Boulevard in Buffalo. This boating center, situated at a small inlet from the Buffalo River, has become a key part of the Buffalo Outer Harbor. The inlet, known as the Francis Folsom Cleveland Fair Weather Inlet, is used by children and adults who are trained by our staff and volunteers to be safe, confident sailors. The continued success of our Nautical Day Camp program provides on-water access, education, and social networking from June through August for kids and teens ranging from 8 to 18 years old. Our floating eco-classroom is used by the sailing school to provide instruction in meteorology and science activities, water biology, earth sciences, value of recycling, environmental conservation and more.

Unfortunately, the shoreline in the Inlet, near the dock, has been eroding for several years. To mitigate this issue, CCRC obtained funding from the Greenway Ecological Standing Committee in June 2014 and used GESC funds to hire an engineering firm, Gomez and Sullivan Engineers, DPC, to develop a preliminary, ecologically based design to stabilize the shoreline. CCRC is now seeking funding for the second part of this project, which includes a final signed engineering design and construction, scheduled to take place in 2015.

2.1 Greenway Ecological Standing Committee Funding Criteria

The CCRC Shoreline Stabilization Project addresses many of the priorities and criteria provided as fund application guidelines by GESC, including the following:

- **Projects that preserve rare, threatened, and endangered (“RTE”) plant aquatic, or terrestrial species and/or their habitat in the Niagara Basin** – RTE species have not been specifically identified at this site; however, the project goal is to exclusively utilize native plant species that provide food and/or shelter for native animals in shoreline stabilization.
- **Projects with a strong scientific foundation** – All project elements have a sound scientific and engineering basis and have been well researched to match the native ecological history and enhance local habitat. Some examples include: native species seed mixes, live stakes/fascines and shrubs, integration of use of Lunkers to enhance fish habitat (e.g., this area of the river has been identified as a fish spawning area).¹
- **Projects that contribute to long-term protection and enhancement of RTE plant, aquatic, or terrestrial species and/or their habitat in the Niagara Basin** – This project specifically addresses aquatic and terrestrial species and their habitats.
- **Projects that achieve multiple ecological goals** – These goals include shoreline stabilization with a smooth, natural transition from aquatic to terrestrial environs, upland restoration, generation of aquatic habitat, and control of erosive sedimentation loading.

¹ City of Buffalo, Local Waterfront Revitalization Program

- **Projects that preserve and restore Haundenosaunee cultural, religious, and historic features** – This site has is the former foul weather inlet used as a US Coast Guard base and adjoins the sea wall that protected the ship channel and the Buffalo River from the waters of the Outer Harbor. It has been the focus of several archeologic studies and investigations. CCRC reached out to the State Historic Preservation Office (SHPO) to identify the nature of this project and SHPO, in turn, issued a letter of no effect.
- **Projects consistent with applicable local, State, and Federal resource management plans** – CCRC has identified two local management plans that are relevant to this site: the City of Buffalo Local Waterfront Revitalization Program (June 2014); and the Buffalo River Ecological Master Plan (June 2011). These documents are applicable to this project and the proposed work is consistent with both plans.
- **Projects that are time-sensitive** – CCRC believes it is important to address the erosion concerns as soon as possible. This site is in a high energy environment prone to severe storms and the damage caused by a major storm could lead to much more costly remedies.
- **Projects that are feasible from a cost/probability of success perspective** – The project incorporates standard engineering practices that have shown good success at other sites. In addition, this is an active site with year-round staff presence who can address potential issues before they become serious.

2.2 Conceptual Design Summary

In June 2014, CCRC received funding from the Greenway Ecological Standing Committee for the *Invasive Species Control and Native Planting and Park Beautification Project*. This funding has allowed CCRC to address invasive plant species populations on the shoreline adjacent to the Francis Folsom Cleveland Fair Weather Inlet, a process that will continue into 2015. Additionally, part of the funds were allocated to the hire of an engineering and environmental sciences consultant. Gomez and Sullivan Engineers, DPC, prepared a conceptual plan for shoreline restoration and conducted an assessment of permitting requirements. This conceptual plan memo is provided in Appendix A and includes a description of the existing conditions in the Inlet, written descriptions of CCRC’s intentions for shoreline stabilization and revegetation, and conceptual engineering drawings. [*Note: The conceptual drawings indicate removal of trees that were in danger of falling. Tree removal has already been completed and is not part of this funding request.*]

Outreach to the U.S. Coast Guard and to the State Historic Preservation Office (SHPO) were also completed during Phase 1. Appendix B provides copied of written response from the U.S. Coast Guard and SHPO.

3 Scope of Services

3.1 Shoreline Restoration Final Design and Construction

CCRC is seeking funding for additional engineering services to finalize the shoreline restoration design and develop bid documents to be used to procure a contractor to complete the work this spring. In addition, CCRC is seeking funding for the cost of the construction work.

In general, remaining engineering services will include:

Final Design Drawings for Restoration

The project engineer will prepare final design drawings with detailed plans and sections outlining the ecological restoration structures. The drawings will be signed by a licensed New York State Professional Engineer and will be suitable for construction purposes. This design will incorporate natural erosion control concepts including:

- Replanting upper portions of the shoreline using live stakes and potted or bare root native plantings to fill bare spots or to replace stands of non-native species
- Tree boles added along the slope to help retain sediment and stabilize the slope
- Fascine bundles placed at the toe of the slope
- Lunkers for added habitat and erosion protection and to incorporate existing timber crib structures

The engineer will also prepare construction specifications such as:

- Notes and draft technical specifications presented on plans and/or within a written specification document
- A list of native species to be planted. The size, (i.e. diameter or container size) and number of potted or bare root trees and plants will be provided. Any seed mixes to be used will be identified, and the quantities and application rates will be shown.
- Steps to prevent deer browsing and other herbivory during the planting establishment period will be provided
- The designs will incorporate the use of bioengineering or other “green stabilization” techniques as much as practical

Design drawings for the Project will be prepared using AutoCAD 2013. At the completion of the design phase of the project, deliverables to CCRC will include one printed drawing set, written specifications and one PDF copy of the plan set and specifications.

Bid Documents

The plans and specifications will be used to solicit bids for the proposed work from contractors. Preliminary bids have already been received and final design and specifications will be used to refine cost estimates.

The Form of Agreement and other related front-end documents will be based on standards by the Engineers Joint Contract Documents Committee (EJCDC).

3.2 Permitting

The final design will be further developed to utilize Corps of Engineers Section 404 Nationwide Permit 13, which applies for projects with less than 500 feet of bank stabilization and less than one cubic yard of fill per foot.

In addition, CCRC is aware that previous cultural resource investigations have been completed in this area including investigations at the adjacent marina and at the site of the original Buffalo lighthouse as

well as residential structures that were likely associated with the early Coast Guard Station and Foul Weather Mooring and Life-Saving Station. CCRC completed outreach to SHPO for this project and received a letter of No Effect (see Appendix B).

4 Budget

We have received estimates for costs from potential contractors. These estimates are included in Appendix C. Our budget in Table 1 is based directly on these estimates.

Table 1. Shoreline Restoration Final Design and Construction Budget

Design Drawings for Restoration	
Contract/Bidding Documents	\$1,790
Drawings (Cover/Notes, Plan, Sections)	\$8,410
Technical Specifications	\$1,678
Design Report	\$4,668
Permitting	\$497
Construction Estimate Based on Conceptual Plans	
Install steel pilings	\$28,900
Install angle on top of new pilings for stone toe support	\$8,700
Supply all labor and material for new cribbing and salvaged tree bole on under side of cribbing	\$25,000
Supply and install new stone toe with doles at joints with clips	\$8,000
Supply all material and labor for landscaping	\$20,000
Contingency - 10% of current estimate	\$9,060
Sail Buffalo Staff and Volunteer Work	
Sail Buffalo project management	\$5,835
Volunteer Hours from Sail Buffalo staff and members	>20
Phase II Total	\$122,538

Appendix A

TO: Pierre Wallinder, Cazenovia Community Boating Center-Sail Buffalo
FROM: Carla Stauber, EIT and Mark Mattson, PE, Gomez and Sullivan Engineers, DPC
DATE: November 7, 2014
SUBJECT: CCRC Shoreline Restoration Concept Plan

The purpose of this memo is to present the proposed concept plan for the Cazenovia Community Boating Center Shoreline Stabilization Restoration Project.

1. Introduction

The Cazenovia Community Resource Center (CCRC) is a multi-faceted not-for-profit organization based in Buffalo, NY. CCRC operates the Sail Buffalo Sailing School and Sailing Club, Buffalo's only nationally accredited sailing education program. The Boating Center is located at 2 Fuhrmann Boulevard in Buffalo, NY. The boating center is situated inside the inlet from the Buffalo River and in a portion of the adjacent park. It has become a key part of the Buffalo Outer Harbor. Figure 1 shows a location plan of the site with respect to Lake Erie and the Buffalo River.

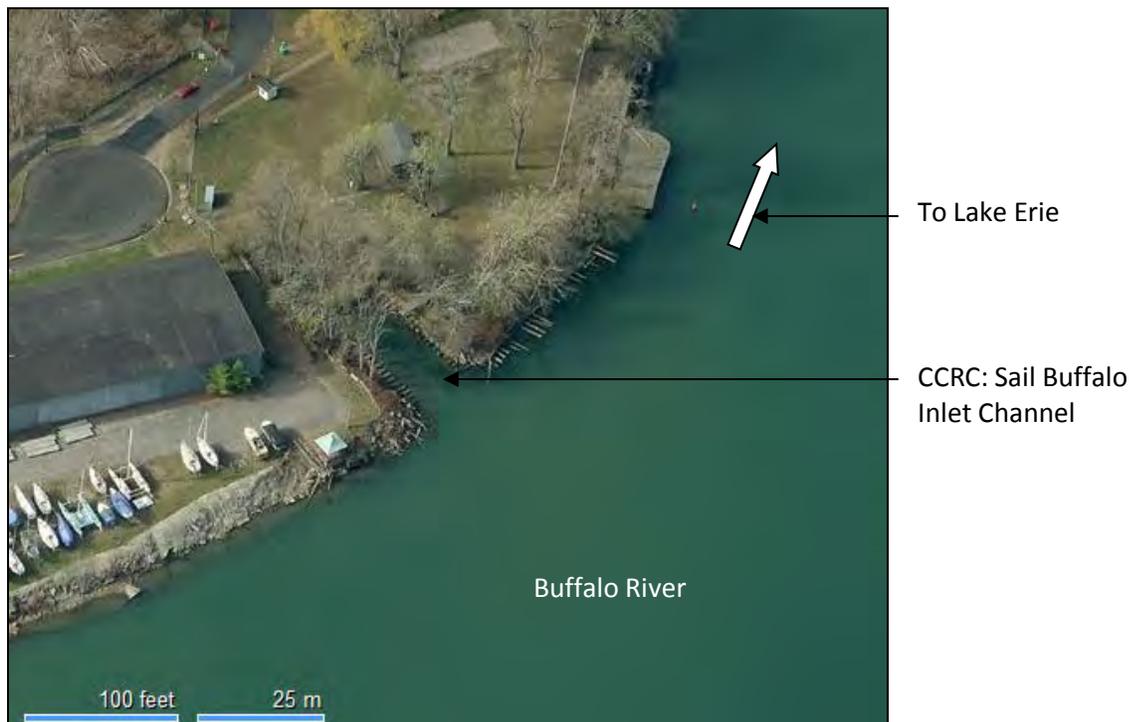


Figure 1. Cazenovia Community Boating Center

The shoreline near the Boating Center dock along the inlet has been eroding for several years. CCRC has engaged the services of Gomez and Sullivan Engineers to assess the situation and provide a conceptual solution to restore the existing shoreline and mitigate future erosion concerns.

2. Existing Conditions

The water surface elevation at the CCRC inlet is influenced by the water levels in Lake Erie. As such, it is impacted by significant wind, waves and changes in water levels that are consistent with the water level fluctuations in Lake Erie. Ordinary high and low water surface elevations of Lake Erie typically fluctuate on the order of four feet with an ordinary high water mark of 573.4 feet and a low water datum of 569.2 feet.¹ The water and erosive forces created by the wind and waves mobilize sediment on the bank and have produced significant erosion at the CCRC inlet.

Figure 2 shows a view of the eroded shoreline in front of the CCRC boat dock. On the right side of the picture, a line indicating the approximate top of bank has been added. The slope below the top of the bank is very steep and has become unstable as a result of the erosion. Trees along the bank are being undermined and are leaning toward the water. Submerged wooden timber crib structures also protrude from the shoreline. Further erosion of the bank in the future is likely if the situation is not mitigated.

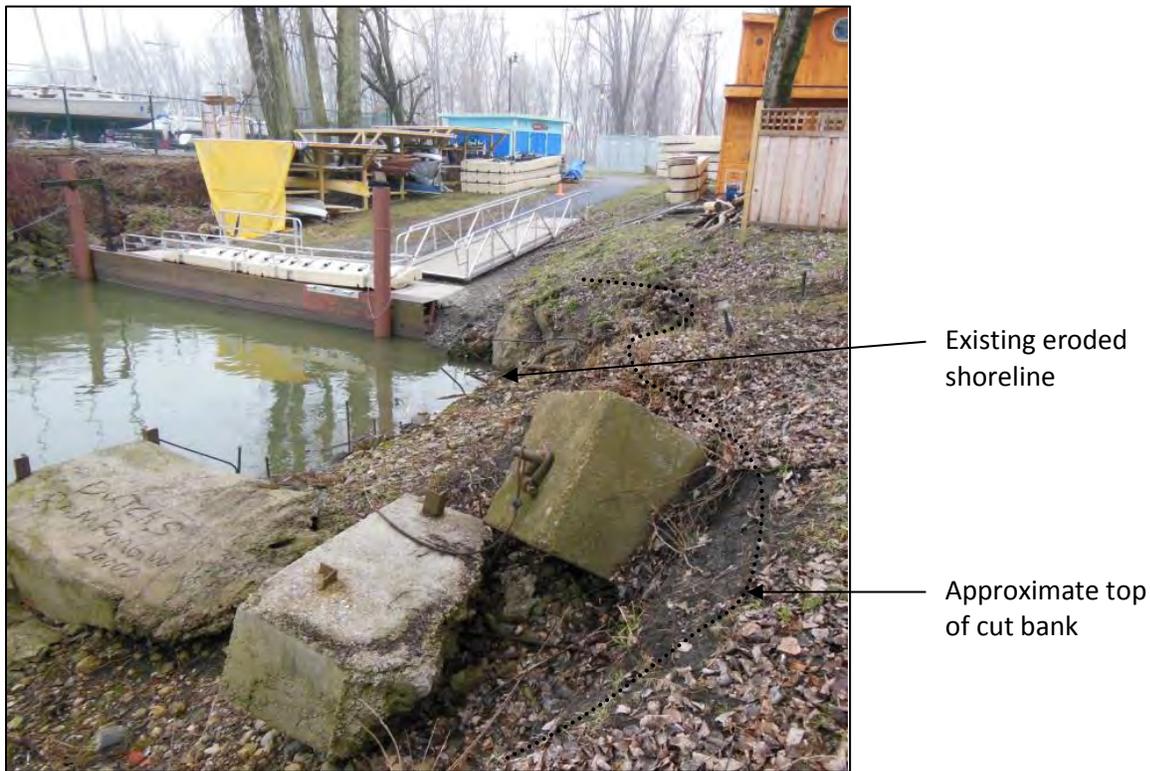


Figure 2. Eroded shoreline at CCRC

Additional photos of the leaning trees with the root structures undermined and the timber cribbing in the water are shown in Figures 3 and 4 respectively on the following page.

¹ "IGLD 1985, Brochure on the International Great Lakes Datum 1985." Coordinating Committee on Great Lakes Basic Hydraulic and Hydrologic Data, January 1992.



Figure 3. Leaning trees with undermined roots



Figure 4. Existing timber cribbing

Adjacent to the site on the Buffalo River side, the shoreline appears much more stable. There is a significant amount of stone along the shore with large stones along the water's edge with the stone size decreasing up the bank. This shoreline appears to be stable and has been able to withstand the erosive forces of the water. Some vegetation is growing between the stones, and CCRC is currently working to treat invasive species and plant native shrubs in this area. It should be noted that the shoreline in this area is somewhat protected by a large sheet pile and concrete pier that extends into the River. Figure 5 provides a view of this area.



Figure 5. Stable shoreline adjacent to CCRC inlet

3. Proposed Shoreline Protection Plan

In order to restore the shoreline at the CCRC inlet, a plan was developed that attempts to balance the need for energy dissipation with measures to provide habitat and more ecological benefit than stone. The proposed shoreline protection plan consists of:

- 1) re-grading the inlet bank to a stable slope with a mix of large stones and soil stabilized with live stakes and native vegetation;
- 2) reusing felled trees from the site for shoreline stabilization, and
- 3) making use of the existing timber cribbing to install Lunkers.

Please refer to Attachment A to this memo that includes plans and a section view of the proposed conceptual design.

3.1 Re-graded Bank

In order to stabilize the bank, a stable slope must be cut. The existing bank will be re-graded from the top of the eroded bank down to the toe of the shoreline at a maximum slope of approximately 2.5 feet of horizontal distance for every 1.0 foot of vertical drop. This slope is generally stable and will provide an opportunity for vegetation to be planted along the bank. The shoreline will be built up with a mix of large stones and soil mix to aid in erosion control as well as a series of live stakes and shrubs. Topsoil and a native herbaceous plant seed mix will be placed above the large stone and soil mix to fill in around the live stakes and shrubs. A biodegradable rolled erosion control blanket, such as jute netting, will be placed over the seeded topsoil layer, which will help prevent erosion of the soil until vegetation is established.

The following is a preliminary list of native vegetation species that will be used. The live stake and shrub species on this list are also being used by CCRC in the *Invasive Species Control and Native Planting* project that is being undertaken at the Sail Buffalo location. These shrub species are known to provide food and habitat for native birds and insects.

Seed Mix

- Virginia creeper (*Parthenocissus quinquefolia*)
- black-eyed Susan (*Rudbeckia hirta*)
- wild bergamot (*Monarda fistulosa*)
- milkweed (*Asclepias syriaca*)
- big bluestem (*Andropogon gerardi*)
- Indian grass (*Sorghastrum nutans*)

Live Fascines

- red osier dogwood (*Cornus sericea*)

Shrubs

- black chokeberry (*Aronia melanocarpa*)
- spicebush (*Lindera benzoin*)
- winterberry (*Ilex verticillata*)

- arrowwood (*Viburnum dentatum*)

3.2 Tree Revetment

A number of existing trees on site are leaning significantly toward the water. It appears that these trees will need to be removed so that they do not fall unexpectedly and impact the existing docks at the CCRC. These trees have a number of significantly long straight boles that can be reused at the site and incorporated into the shoreline protection plan. When cut down, the remaining logs from the trees provide an opportunity for tree revetment at the site. Notably, we have proposed that these trees be used along the shoreline and at the ordinary high water mark to help fortify the shore. The trees will be tied down using a galvanized cable with an appropriate earth anchor. Additional branch packing or fascine bundles can also be used between the logs to help stabilize the lower portion of the shoreline where the erosive forces from the water are the most significant.

3.3 Lunkers Structure

A unique feature of the CCRC site is the existing timber cribbing along the shoreline. This cribbing once supported a structure that has since been removed. The cribbing presents the opportunity to efficiently install Lunkers. Lunkers were developed by the Wisconsin Department of Natural Resources fisheries personnel as a method of improving edge cover for fish (USDA Technical Supplement 140). The structure provides an underwater space that provides habitat and cover for fish. The Lunkers can be built out of timber cribbing or stone. The proposed Lunkers for this project will be constructed of timber and will be tied to the existing cribbing. Where required, new timbers will be added to support the structure. Large salvaged tree boles will be anchored into the existing bank underneath the Lunkers to provide additional structural support and prevent undermining. Large stones are also proposed for the Lunkers at the edge of the shoreline. These stones will provide significant erosion control and help define the Lunkers and shoreline with a defined edge.

4. Permitting

USACE Permitting

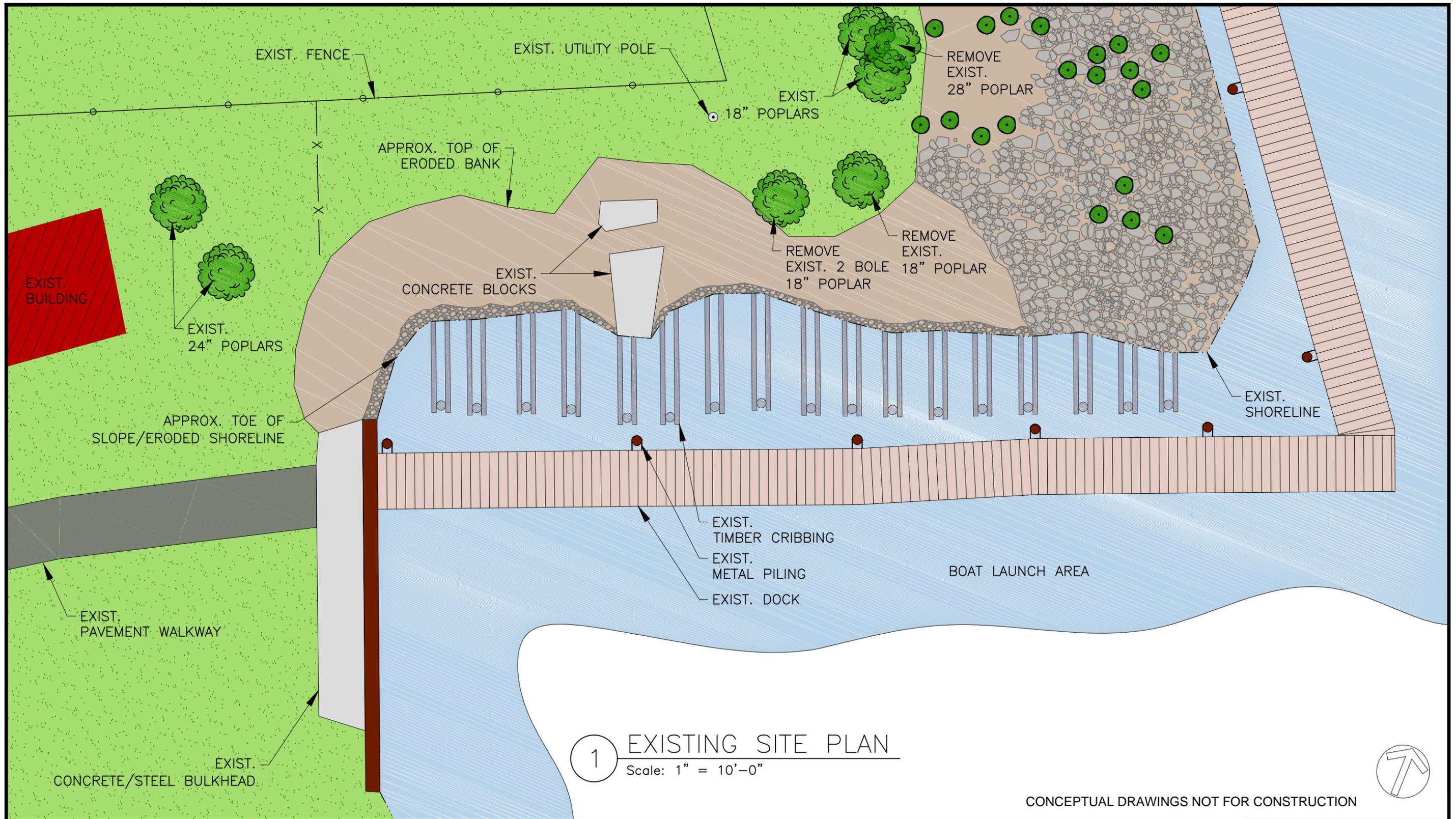
Shoreline stabilization will require fill to be placed below the ordinary high water mark. Because of this, a U.S Army Corps of Engineers (USACE) permit will be required for the work. Nationwide Permits have been established for the Corps of Engineers Section 404 permitting program to authorize work in waters of the United States. Nationwide Permit 13 for Bank Stabilization appears to be appropriate for this project. For bank or shoreline stabilization projects with less than 500 feet of bank stabilization and less than one cubic yard of fill per foot, a Pre-Construction Notification (PCN) is not required. Based on field measurements, the length of stabilization is less than 100 feet and the amount of fill below the ordinary high water mark will be less than one cubic yard per foot.

Cultural Resources

Previous cultural resource investigations have been completed in this area including investigations at the adjacent marina and at the site of the original Buffalo lighthouse as well as residential structures that were likely associated with the early Coast Guard Station and Foul Weather Mooring and Life-Saving Station. A Letter of No Effect was issued by the New York State Historic Preservation Office for this site on October 9, 2014. This letter is included as Attachment B. Therefore, additional Phase 1A/1B survey services will not be required.

Attachment A

Conceptual Drawings for Shoreline Stabilization at the CCRC



1 EXISTING SITE PLAN
 Scale: 1" = 10'-0"

CONCEPTUAL DRAWINGS NOT FOR CONSTRUCTION



NO.	DATE	DESCRIPTION	BY	APP
0	11/7/14	CONCEPTUAL DRAWINGS	CRS	MMM

FOR:  **Sail Buffalo**
Sailing School

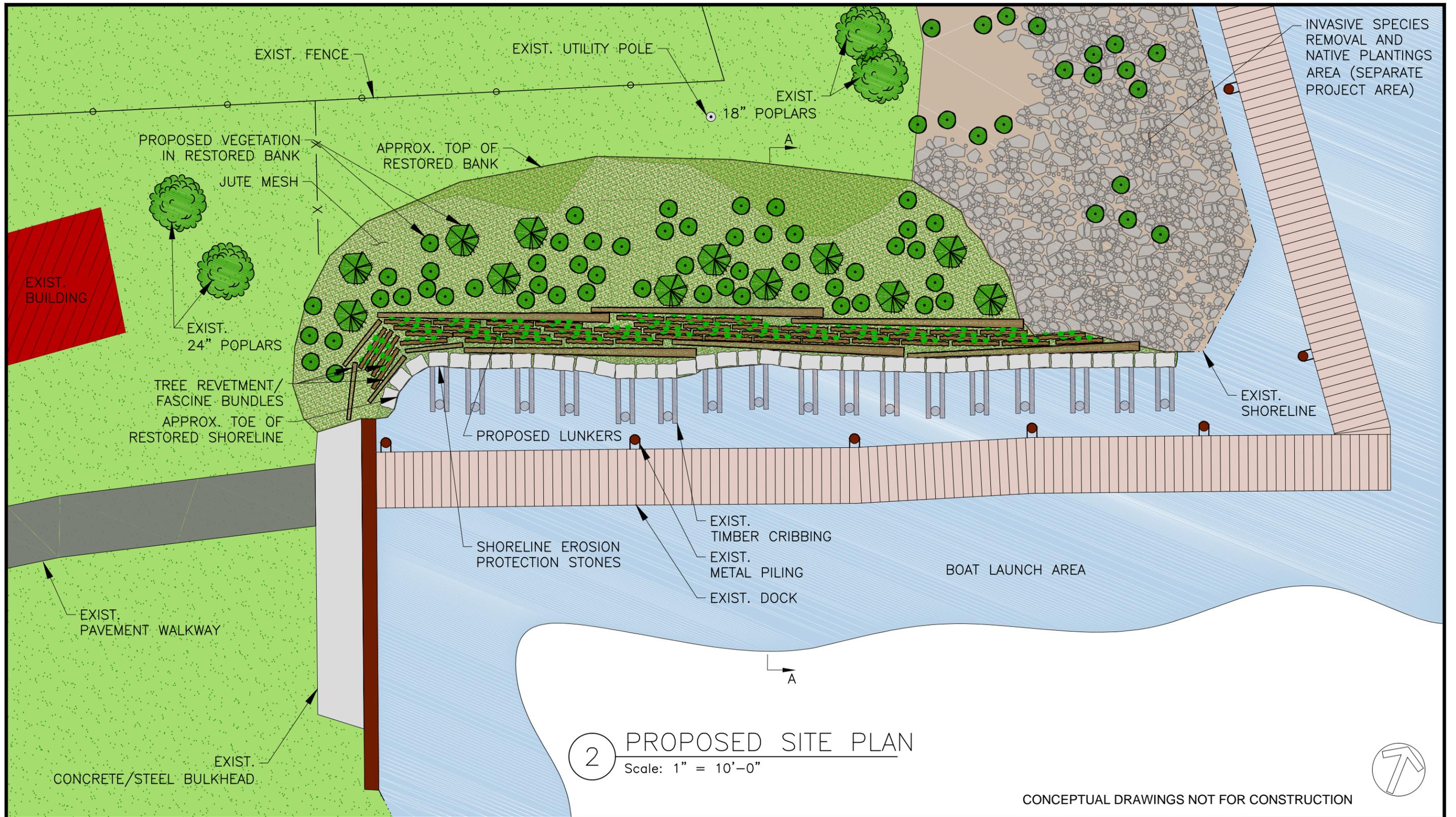
BY:  **GOMEZ AND SULLIVAN**
ENGINEERS
Williamsville, NY • Utica, NY • Albany, NY • Henniker, NH
www.gomezandsullivan.com

DESIGNED BY:	MMM
DRAWN BY:	CRS
CHECKED BY:	MMM
APPROVED BY:	-
PROJECT NO.:	3027
DATE:	11/7/2014

**SAIL BUFFALO SAILING SCHOOL
SHORELINE RESTORATION**

SITE PLAN - EXISTING CONDITIONS

SCALE: 1" = 10'-0" DRAWING NO.: 1



2 PROPOSED SITE PLAN
 Scale: 1" = 10'-0"

CONCEPTUAL DRAWINGS NOT FOR CONSTRUCTION



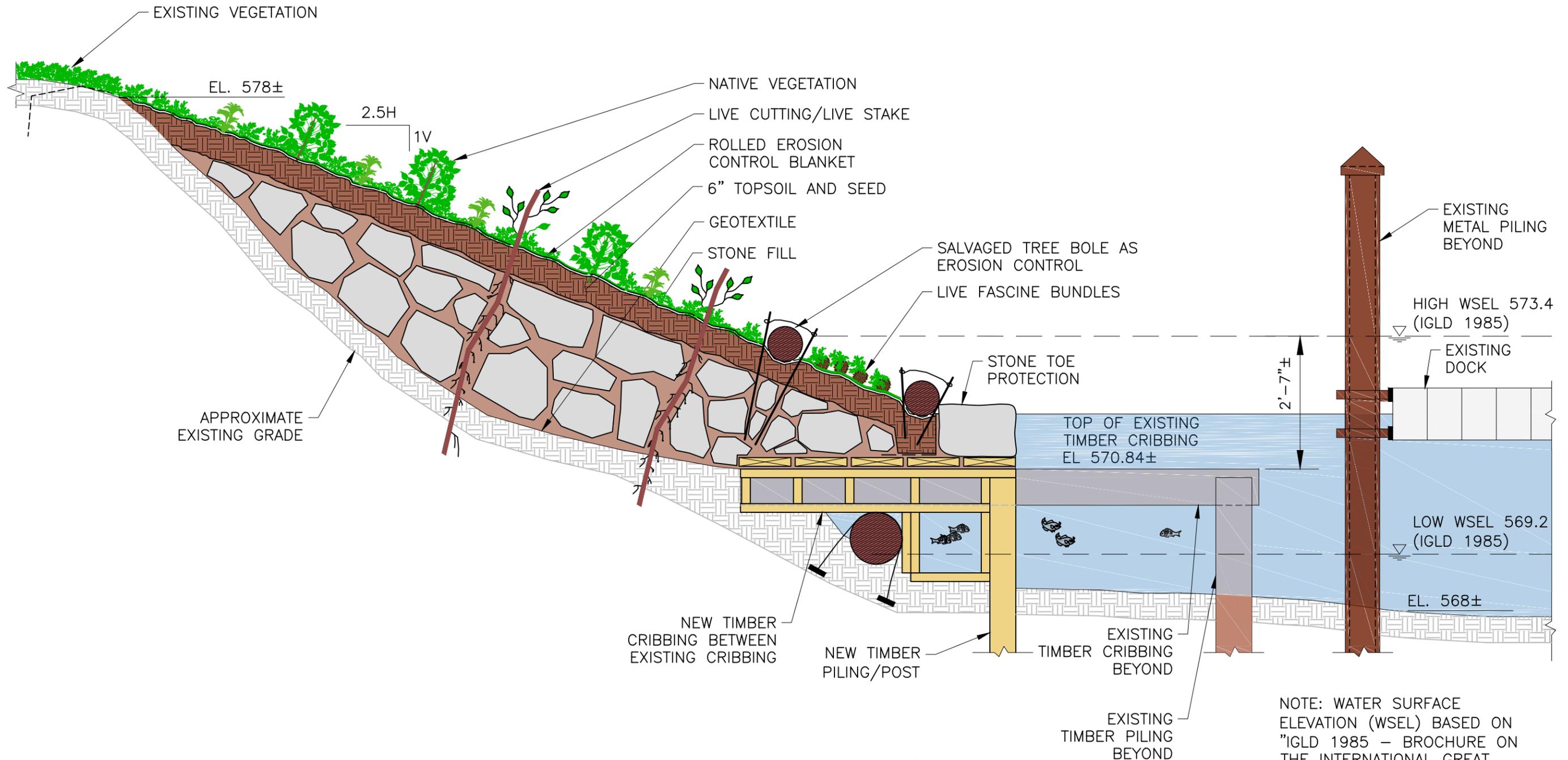
NO.	DATE	DESCRIPTION	BY	APP
0	11/7/14	CONCEPTUAL DRAWINGS	CRS	MMM

FOR:  **Sail Buffalo**
Sailing School

BY:  **GOMEZ AND SULLIVAN**
ENGINEERS
Williamsville, NY • Utica, NY • Albany, NY • Henniker, NH
www.gomezandsullivan.com

DESIGNED BY:	MMM
DRAWN BY:	CRS
CHECKED BY:	MMM
APPROVED BY:	-
PROJECT NO.:	3027
DATE:	11/7/2014

SAIL BUFFALO SAILING SCHOOL SHORELINE RESTORATION	
SITE PLAN - PROPOSED MODIFICATIONS	
SCALE: 1" = 10'-0"	DRAWING NO.: 2



A LUNKERS SECTION
 Scale: 1/2" = 1'-0"

NOTE: WATER SURFACE ELEVATION (WSEL) BASED ON "IGLD 1985 - BROCHURE ON THE INTERNATIONAL GREAT LAKES DATUM 1985"

CONCEPTUAL DRAWINGS NOT FOR CONSTRUCTION

					FOR:		DESIGNED BY:	MMM	SAIL BUFFALO SAILING SCHOOL SHORELINE RESTORATION		
					BY:		DRAWN BY:	CRS			
0	11/7/14	CONCEPTUAL DRAWINGS	CRS	MMM						CONCEPTUAL LUNKERS STRUCTURE	
NO.	DATE	DESCRIPTION	BY	APP							
					APPROVED BY: - PROJECT NO.: 3027 DATE: 11/7/2014			SCALE:	1/2" = 1'-0"	DRAWING NO.:	3

Appendix B

From: **Carpenter, Gregory O CIV** <Gregory.O.Carpenter@uscg.mil>
Date: Thu, Jan 15, 2015 at 2:30 PM
Subject: RE: Shoreline stabilization proposal
To: "pierre.wallinder@gmail.com" <pierre.wallinder@gmail.com>
Cc: "Platt, Elizabeth T LCDR" <Elizabeth.T.Platt@uscg.mil>

Mr. Wallinder

Understood as per our discussion. This action meets the environmental compliance as described and proposed in the planning process approval. If there are any deviations, please contact me and the appropriate permitting agency.

Thank you.

Gregory O. Carpenter, P.G.
Chief, Environmental Compliance
U.S. Coast Guard
Civil Engineering Unit Cleveland
1240 East Ninth Street, Rm. 2179
Cleveland, Ohio 44199-2060
Phone: [\(216\) 902-6219](tel:(216)902-6219)
Mobil: [\(216\) 630-9904](tel:(216)630-9904)
Fax [\(216\) 902-6277](tel:(216)902-6277)

-----Original Message-----

From: pierre.wallinder@gmail.com [mailto:pierre.wallinder@gmail.com]
Sent: Thursday, January 15, 2015 9:37 AM
To: Carpenter, Gregory O CIV
Subject: Re: Shoreline stabilization proposal

Good morning Greg, below is additional info for your kind attention:

the deadline for funding request is February 3 to the Niagara Greenway Ecological Committee. It is the same entity that awarded funding for the Invasive Specie Removal Project we are doing.

We also submitted a pre grant letter to Environmental Protection Agency a few weeks ago, in the amount of \$150,000, which we believe is in the ballpark of what this undertaking would cost. No news yet from them. They are administering Great Lakes Restoration Funds.

A Contractor RFP has been issued and we selected Buffalo Marine Construction, they had the lowest

bid, and did such a great job with the ramp.

It will be permitted thru a USACE National Permit, Gomez and Sullivan Inc will advice in all of these matters. In hand is a No Objection Letter from SHPO.

Whats needed next is your approval to proceed.

Sincerely,
Pierre Wallinder
[716-432-6589](tel:716-432-6589)



New York State Office of Parks, Recreation and Historic Preservation

Division for Historic Preservation
Peebles Island, PO Box 189, Waterford, New York 12188-0189
518-237-8643
www.nysparks.com

Andrew M. Cuomo
Governor

Rose Harvey
Commissioner

October 09, 2014

Mr. David Frazier
Project Manager
Gomez and Sullivan Engineers
1961 Wehrle Drive, Suite 12
Williamsville, NY 14221

Re: USCG
Cazenovia Community Resource Center's Sail Buffalo Program, Shoreline Restoration
City of Buffalo, Erie County, NY
14PR04215

Dear Mr. Frazier:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based upon this review, the New York SHPO has determined that no historic properties will be affected by this undertaking.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont
Deputy Commissioner for Historic Preservation

Appendix C

Table C-1. Gomez and Sullivan Engineers Estimate for Shoreline Restoration Final Design

Task Description	Senior Scientist	Engineer	Junior Engineer	Project Scientist	Junior Scientist	TOTAL HOURS	Labor	Direct Expenses	TOTAL COST
Contract/Bidding Documents	3	8	4	2	0	17	\$1,740	\$50	\$1,790
Drawings (Cover/Notes, Plan, Sections)	7	16	40	12	24	99	\$8,160	\$250	\$8,410
Technical Specifications	4	2	6	6	4	22	\$1,628	\$50	\$1,678
Design Report	5	8	14	12	24	63	\$4,518	\$150	\$4,668
Permitting	3				1		\$497		\$497
Phase II Total	22	34	64	32	53	201	\$16,543	\$500	\$17,043

**BUFFALO MARINE
CONSTRUCTION, LLC**

Proposal

Tim Nelson
(716) 954-3778

Jim Flash
(716) 982-5192

Submitted TO: SAIL BUFFALO	Telephone 716-432-6589
Address 2-FUHMANN BLVD	Job Location: SAME
City, State and Zip BUFFALO NY 14203	Authorized Buffalo Marine Construction LLC. Signature: TIM NELSON
Payment Terms:	DATE:12-11-2014

We hereby submit specification and estimates for:

Item Description SHORELINE RESTERATION	Unit Price
IN STALL 17- 8"X30' STEEL PILINGS	28,900.00
INSTALL 8"X8" ANGLE ON TOP OF NEW PILING'S FOR STONE TOE SUPPORT	8,700.00
SUPPLY ALL LABOR & MATERIAL FOR NEW CRIBBING & SALVEDGE TREE BOLE ON UNDER SIDE OF CRIBBING	25,000.00
SUPPLY & INSTALL NEW STONE TOE WITH DOWLES @ JOINT'S WITH CLIP'S	8,000.00
SUPPLY ALL MATERIAL & LABOR FOR LANDSCAPING	20,000.00
NOTE: THIS WORK WILL BE DONE FROM WATER & LAND	
TOTAL	90,600.00

Acceptance of Proposal

The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

DATE OF ACCEPTANCE	
SIGNATURE	

Appendix D



November 18, 2012

Mark Lazzara, President
155 Cazenovia Street
Buffalo, New York 14210

Dear Mr. Lazzara:

The Niagara River Greenway Commission is pleased to support the Cazenovia Community Resource Center and Library's "Project Consultation and Review" package for the following project:

Francis Folsom Cleveland Fair Weather Inlet

This project was deemed consistent to the Niagara River Greenway Plan as determined by the Niagara River Greenway Commission. The subjective evaluations were based on the principals, goals and criteria that define the Niagara River Greenway Plan. I have attached the Commission's comments and questions as well as public comments received on the projects submitted during the deliberation timeframe for your use. The Commission is pleased to support the Cazenovia Community Resource Center and Library's project proposal and wish you great success.

Respectfully,

Rob Belue

R.A. Belue
Executive Director

Cc: Erie, Buffalo and Olmsted Standing Committee
Greenway Ecological Standing Committee
Pierre Wallinger, Captain

Buffalo & Erie County Greenway Fund
Standing Committee

Erie County

City of Buffalo

Buffalo Olmsted Parks Conservancy

NYPA

March 26, 2013

Mark Lazzara, President
Cazenovia Community Resource Center and Library
155 Cazenovia Street
Buffalo, NY 14210

Dear Mr. Lazzara:

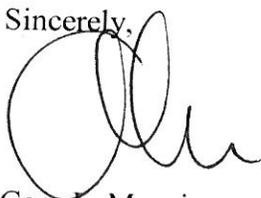
On behalf of the Buffalo & Erie County Greenway Fund, I am pleased to inform you that the Standing Committee has approved funding to support the Francis Folsom Cleveland Fair Weather Inlet. At a meeting held on March 12, 2013, the Committee unanimously supported providing \$187,800 to the Cazenovia Community Resource Center and Library.

Our Standing Committee is charged with supporting projects that are consistent with the adopted Niagara River Greenway Plan. That Plan was developed with strong community input and provides a vision that recognizes the importance of way-finding and the recreational assets that comprise the Greenway.

The Committee has an agreement with the Community Foundation for Greater Buffalo to provide grant management services, and Jean McKeown will be in contact with you to provide instructions on accessing the funding and reporting requirements.

If you have any questions, please do not hesitate to contact Jean at the Foundation 716-852-2857 or jeanm@cfgb.org.

Sincerely,



Gary L. Mucci
Chairperson, Buffalo & Erie County Greenway Fund Standing Committee

Buffalo & Erie County Greenway Fund Standing Committee

Erie County

City of Buffalo

Buffalo Olmsted Parks Conservancy

NYPA

March 26, 2014

Mark Lazzara, President
Cazenovia Community Resource Center and Library
155 Cazenovia Street
Buffalo, NY 14210

Dear Mr. Lazzara:

On behalf of the Buffalo & Erie County Greenway Fund, I am pleased to inform you that the Standing Committee has approved funding to support the Francis Folsom Cleveland Fair Weather Inlet, Phase 2. At a meeting held on March 25, 2014, the Committee unanimously supported providing \$157,365 to the Cazenovia Community Resource Center and Library for the following learning stations:

1. Science Lab, wind and solar installation, construction management and administration;
2. Handicap Accessible Upgrade to EZ Dock system, north gate, ramp at northern portion of dock, construction management and administration; and
3. Greenhouse with 12 wooden raised beds, construction management and administration.

Our Standing Committee is charged with supporting projects that are consistent with the adopted Niagara River Greenway Plan. That Plan was developed with strong community input and provides a vision that recognizes the importance of way-finding and the recreational assets that comprise the Greenway.

The Committee has an agreement with the Community Foundation for Greater Buffalo to provide grant management services, and Jean McKeown will be in contact with you to provide instructions on accessing the funding and reporting requirements.

If you have any questions, please do not hesitate to contact Jean at the Foundation 716-852-2857 or jeanm@cfgb.org.

Sincerely,



Gary L. Mucci
Chairperson, Buffalo & Erie County Greenway Fund Standing Committee



1020 Humboldt Parkway

Buffalo, New York

14211-1208

Phone 716-896-5200

Fax 716-897-6723

www.sciencebuff.org

January 30, 2015

Dear Greenway Ecological Standing Committee,

This letter is written in support of the proposal from the Cazenovia Community Boating Center and Sail Buffalo! to the Greenway Ecological Standing Committee for shoreline restoration at the property located at 2 Fuhrmann Boulevard.

The Buffalo Museum of Science and Tifft Nature Preserve are supportive of ecological restoration such as this project along the Buffalo River and within the Outer Harbor. This project will stabilize the eroding bank in the boat slip and prevent further sediment from entering the Buffalo River. The restored bank and native plantings will also enhance wildlife habitat for fish, turtles, birds and insects.

I have been involved with the restoration work on the site for over year and have seen great improvements. The shoreline restoration will complement the invasive species and native plantings I have been working on. I have already met with Gomez and Sullivan to coordinate how these two projects will fit together and I will continue my involvement through the completion of both projects.

I encourage the Greenway Ecological Standing Committee to support this project.

Sincerely,

A handwritten signature in black ink that reads "David Spiering". The signature is written in a cursive style with a long horizontal stroke extending to the right.

David Spiering
Ecologist – Tifft Nature Preserve
Buffalo Museum of Science