



Request for Proposals

Professional Design Services for
Gill Creek - Green Infrastructure Solutions
Hyde Park, City of Niagara Falls, New York

October, 2022

Buffalo Niagara Waterkeeper
721 Main Street
Buffalo, NY 14203
(716) 852-7483
www.bnwaterkeeper.org



REQUEST FOR PROFESSIONAL DESIGN SERVICES

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I. INTRODUCTION

A. INVITATION TO SUBMIT PROPOSALS

Buffalo Niagara Waterkeeper (BNW) is a community-based, not-for-profit organization that leads regional efforts to safeguard water resources for present and future generations and connects people to the water through education, recreation, and preservation. BNW received funding from the Environmental Protection Agency (EPA) Great Lakes Restoration Initiative (GLRI) for a green infrastructure project that is designed to improve habitat and reduce the amount of unfiltered stormwater flowing into Gill Creek (Project). The Project is located within Hyde Park in the City of Niagara Falls, Niagara County, New York.

BNW is seeking a consultant or team of consultants (Consultant) to provide professional design services and construction contract administration services for the Project. Services (described fully in Section II.C – *Anticipated Scope of Services*) include relevant background data collection, permitting, final design development, stamped engineering plans (as needed), construction bid process assistance, and construction contract administration. Proposals are hereby invited for the Project, in accordance with the details included in this request for proposals (RFP).

B. SITE DESCRIPTION

Project Area Description

Gill Creek originates in the Tuscarora Nation and flows south before emptying into the Niagara River, just above Niagara Falls. Gill Creek has undergone extensive modifications related to heavy industrial, commercial, and residential development resulting in the creek being realigned, channelized, and culverted underground in several places. As a result, natural stream function, habitat, and water quality have been negatively affected. Both point and non-point stormwater sources contribute to turbidity, nutrient, suspended sediments, and chemical loading throughout the waterway. Gill Creek is designated as impaired in the NYS Department of Environmental Conservation's Waterbody Inventory/Priority Waterbodies List and the NYS 2018 Section 303(d) List of Impaired Waters due to urban and stormwater runoff.

The proposed Project Area is located within Hyde Park, a municipal park within and owned by the City of Niagara Falls (landowner). The park provides an array of recreational opportunities including an 18-hole golf course, baseball field, ice rink, skate park, and tennis courts. Hyde Park Lake, a 484-acre impoundment formed by a dam in Gill Creek at the southern end of the park, is the focal point of the park and is primarily used for fishing. The landscape is principally turf grass



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with limited fragmented patches of forested and grassland habitat. The water quality impairments in Hyde Park Lake are consistent with those described for Gill Creek including excess nutrients and bacteria. Since 2017, nearly every year during routine water quality monitoring conducted through BNW's Riverwatch Program, Harmful Algal Blooms (HABs) have been observed, reported, and confirmed as positive for cyanobacteria by the NYSDEC in Hyde Park Lake. A map showing the approximate location of the Project Area within the park is shown in Attachment A.

Project Site Description

The Project Site includes three (3) work areas along Gill Creek throughout an approximately 2.2-acre area within Hyde Park. These locations contribute a significant amount of unfiltered stormwater runoff flowing from two outfalls and the public Hyde Park Golf Course into Gill Creek. These locations were also selected because they are where HABs have primarily been documented and are at the upstream end of Hyde Park Lake and, therefore, can contribute to improvements in downstream areas. These locations are referred to as Work Area A, Work Area B, and Work Area C. A figure showing the Project Site has been included in Attachment A for reference. The three work areas shall together be referred to as "The Project."

Work Area A is an upland area approximately 13,024 square feet in size, that is currently mowed lawn up to the shoreline and contains two stormwater outfalls (a 24" diameter, and 12" diameter) which drain untreated stormwater from the adjacent roadway directly into Gill Creek and Hyde Park Lake.

Work Area B, approximately 53,543 square feet adjacent to a large parking lot, also consists primarily of mowed turf grass and contains one 15" diameter outfall. The shoreline in this area is steep and eroding. The City of Niagara Falls Parks Department has recently transitioned this area from lawn to a regeneration / no-mow area. The vegetation cover is predominately non-native cold season grasses and invasive forbs, such as *Cirsium arvense*. During rain events, sheet flow from the parking lot and adjacent roads flows into storm drains, which discharge directly into Gill Creek and Hyde Park Lake.

Work Area C includes approximately 30,000 square feet of the golf course that is primarily mowed with a narrow-to-nonexistent riparian corridor. Maintenance of turf grass up to the stream bank contributes to degradation of water quality as a result of a lack of buffer and the unfiltered, nutrient rich runoff resulting from fertilization and pesticide application across the golf course.



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C. PROJECT DESCRIPTION

The primary goal of the Project is to apply green infrastructure practices throughout an approximately 2.2-acre combined work area, restore approximately 1,600 linear feet of shoreline, and intercept approximately 2,330,500 gallons/year of untreated stormwater runoff that currently flows into Gill Creek and Hyde Park Lake across Work Areas A, B, and C. Stormwater may be intercepted by green infrastructure solutions, such as floodplain benches, fringe wetlands, exfiltration systems, infiltration trenches, and natural regeneration areas.

Design objectives and potential components are described below. All Project components must be compatible with adjacent golf play. Conceptual design components are also included in the preliminary Project approach graphic in Attachment B. The preliminary Project approach graphic is included to demonstrate what BNW, and the EPA grant, are generally looking for. However, the preliminary Project approach graphic was not developed based on site constraints (for instance, topography data) and may not be feasible. This graphic is intended to be illustrative of BNW's initial vision but shall not be construed as a required design or directive to applicants. BNW and the grant funder understand that the Project design will change from the preliminary approach based on design consultants' professional judgement and site-specific data and engineering.

Floodplain Bench

Floodplain benches should be considered in areas that are currently mowed lawn and positioned to maximize stormwater filtration (e.g. at the base of slopes along the waterway). If excavation and additional materials are required, the design solution should strive to balance the cut/fill ratio in order to reduce the amount of fill imported to or exported off site.

Fringe Wetlands

Transitional areas along the land/water interface could be planted with diverse wetland species, including emergent, floating-leaf, and submerged aquatic species that will function to absorb and filter stormwater.

Stormwater Filtration System

In Work Areas A and B, at least two existing stormwater pipes outlet directly into Hyde Park Lake. It is estimated that combined, these outfalls drain runoff from approximately 5 acres of residential, open space, and street area. Options should be explored to intercept and filter stormwater before it discharges from the pipes into the lake. Potential strategies for filtration could include installing new catch basins at the end of each existing stormwater outfall and



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redirecting stormwater from the catch basin via a French drain system into newly created floodplain bench/wetland areas.

Work Area C drains an approximately 3-acre area within the Hyde Park Golf Course. Runoff from this area picks up fertilizer, grass clippings, and goose waste from the mowed golf course lawn as it flows towards the lake. Options should be explored to intercept and filter the golf course runoff before reaches the lake. Potential strategies could include the creation of fringe wetlands or an infiltration trench along the shoreline to capture and slowly filter runoff and excess nutrients from the golf course before it reaches the waterbody.

Regeneration Areas

Natural regeneration areas should be considered along the riparian edge of the lake. These natural regeneration areas may be herbaceous meadows or no mow areas that serve as a riparian buffer.

D. PROJECT BUDGET AND TIMELINE

The pricing proposal for design development and construction contract administration services should include a budget that is not to exceed \$100,000. Our current budget for construction stands at approximately \$500,000, with the anticipation that additional funds may be needed and secured as Project designs progresses. The target start of construction is Fall 2023 with substantial completion occurring within a year. Please note that construction planning should aim to minimize impacting golf play to the extent practicable (e.g., avoiding peak golf months).

II. PROPOSAL REQUIREMENTS

A. PROJECT APPROACH LETTER

The Consultant must include a Project approach letter to convey their understanding of the Project goals and deliverables. The Project approach letter should outline the methodology envisioned for the design and should provide a general description of the tasks required to accomplish the Project goals. The letter must be signed by a person in the firm with the authority to obligate the Consultant to perform the commitments contained in the proposal. Submission of the letter will constitute a representation by Consultant's firm, that the Consultant or Consultant's firm is willing and able to perform the commitments contained in the proposal. If the Consultant has recommendations for tasks or deliverables outside of those listed in this RFP under the *Anticipated Scope of Services* (outlined in Section C, below), these proposed tasks should be



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clearly highlighted as “Consultant recommendations” in the Project approach letter and work plan.

B. CONSULTANT QUALIFICATIONS

The Consultant submitting a proposal shall be actively engaged and experienced in, and/or shall subcontract to sub-consultants who are directly experienced in, the nature of the work described in this RFP. The Consultant shall be able to provide professional design services including development of complete construction contract documents that are professionally sealed by a New York State Licensed Professional Engineer. The Consultant team should include members with hydrological engineering, nature-based stormwater management, and shoreline habitat restoration experience in freshwater riverine environments. Consultants shall be experienced in identifying and obtaining all needed permits and agency notifications. In addition, the Consultant is expected to be able to provide construction contract administrative services during implementation.

The Consultant shall submit an organizational description, organizational chart (with designation of Primary Point of Contact) and resumes of the primary Project team members and sub-consultants. Responding Consultants should also provide a minimum of three (3) examples (including references) of projects of a similar nature, including hydrologic analysis, nature-based stormwater management, and shoreline restoration project examples, that have been completed by the Consultant or sub-consultants.

The responding Consultant shall be willing to travel to, and be present at, on-site and off-site professional and public meetings. Respondents shall possess the ability to convey technical information verbally and in written format and the expertise to work proactively with Project partners, during all phases of the Project including the design process.

C. ANTICIPATED SCOPE OF SERVICES

Task 01 – Project Kick-off Meeting

During the first week of January 2023, the selected Consultant will lead a pre-project logistics meeting with BNW and Project partners. All primary members of the Consultant team must be in attendance as well as all relevant subconsultants. The purpose of the meeting will be to introduce all members of the Project team, review Project communication protocols, review the final Scope of Services, review and finalize the Project schedule, review permitting strategy, and to discuss design milestones and deliverables. The meeting will also include a review of BNW’s preliminary



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Project approach concepts and a discussion on its feasibility and any alterations the Consultant foresees occurring during the design phase.

Task 02 – Background Review/Surveys/Data Collection/Existing Conditions Report

Tasks will include, but are not limited to:

1. Consultant shall conduct in-person site visits and reconnaissance of the Project site. Site visits will include BNW's Project manager and primary members of the Consultant team to ensure that necessary personnel are familiar with site conditions and constraints. City representatives or representatives from the golf course should be notified prior to the site visits and included at the site visits as needed. Photographs, general measurements, and inspections will be used to identify existing cover, materials, and obstructions present and initiate planning for design elements and specific data collection efforts.
2. Consultant shall complete physical and desktop data collection necessary for design development and securing permits. This can include, but is not limited to, topographic, bathymetric, and boundary surveys, geotechnical evaluations, and hydrologic analysis.
3. The Consultant shall evaluate all site constraints and considerations to determine placement of Project elements.
4. The Consultant shall submit to BNW an existing conditions report which adequately describes the existing conditions of the Project site based on background review, surveys, and data collection and will be used as the basis of design. The data collected should be analyzed and applied to the design concept to inform any potential changes. The reports will also serve as a basis for comparison of pre and post construction conditions.

Task 03 – Design Development

Based on the surveys, data collection, background reviews, and assessment of existing conditions, the Consultant shall first review the preliminary Project approach graphic (shown in Attachment B) and evaluate its feasibility.

The Consultant will be expected to lead a Design Kick-Off meeting with BNW and the landowner to share any insights gained during the Task 02 phase (Background Review/Surveys/Data Collection/Existing Conditions Report) and present any new design concept(s) or modifications. At the Design Kick-Off meeting the Consultant will be expected to share a preliminary estimate of probable cost. The main objective of the Design Kick-Off meeting will be to gather input and reach a consensus on the design concept before progressing into technical design development.



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Check-ins, either in-person or virtually, with BNW are required to occur at each review phase including 30%, 60%, 90% and 100% completion. In addition to BNW review meetings, the Consultant will be expected to lead Technical Advisory Committee meetings, and meetings with partners and any other relevant stakeholder groups, to review the design. The Consultant shall satisfactorily address feedback before progressing the design to the next phase or finalization. The Consultant is required to submit an opinion of probable cost to BNW at 60%, 90%, and 100% completion.

Utilizing feedback from the Design Kick-Off meeting, the Consultant will develop a modified conceptual design (30% design) for submittal to BNW. The Consultant will participate in a minimum of one meeting with BNW and their project partners to discuss the 30% design. At this stage, the Consultant will be expected to lead one public engagement meeting to share progress and details with the community and gather input.

Next the Consultant will develop a 60% design package that includes engineering plans, costs, drafts of key specification sections to support the proposed design, and an outline of the full specifications package. Design plans will incorporate existing conditions data, any newly collected data (such as, bathymetric or topographic data), and proposed concepts into a combined package to outline the work. Drawings will include general notes to outline requirements for the work, legend entries, cross sections, details sufficient to describe the concepts and approaches.

The Consultant shall incorporate BNW's comments on the 60% design before further refining the design elements to 90% completion. At the 90% check-in, the Consultant shall submit a draft bid package containing preliminary frontend documents and Project specifications. BNW will supply Consultant with standard documents from the Engineers Joint Contract Documents Committee (EJCDC®) as the foundation for this deliverable. Draft frontends and specifications shall be submitted to BNW in Microsoft Word format. BNW will review the package and provide feedback and edits to the Consultant.

The Consultant will then develop the final construction contract document bid package, stamped by a New York State Licensed Professional Engineer, sufficient for the construction of all Project elements. The Consultant is expected to collaborate directly with BNW throughout design development and construction contract document production.

Task 04 – Permitting



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The Consultant shall identify all required permits necessary for the construction of the Project including any and all federal, state, multi-state and/or local permitting. Consultant must undergo appropriate coordination and consultation with the New York State Historic Preservation Office (SHPO). The Consultant shall identify all permit fees and payment of such will be the responsibility of BNW. All permits must be submitted by the 90% check-in.

Consultant shall finalize all permit applications, including required plans and drawings for review by BNW. Upon BNW's approval of the permit package and acquisition of approved signatures, the Consultant shall submit to the responsible agency. The consultant will be the primary point of contact for questions from the permitting agencies about the permit package and will keep BNW informed of the progress.

Task 05 – Bidding, Awarding, and Construction Contract Administration

Bidding and Awarding: The Consultant shall lead the construction contractor bid process. The Consultant is expected to lead the pre-bid meeting, serve as primary point of contact throughout bidding, review and provide responses to bidder inquiries, provide assistance in reviewing bids for technical qualifications and pricing, and provide BNW with their recommendation on contractor selection.

Construction Contract Administration and Observation: The Consultant shall provide all required construction contract administration and observation services in conformance with BNW's construction schedule up to final acceptance. The consultant must possess the ability to field fit Project needs according to conditions and the ability to adjust to changes in real time to reduce or balance costs with contractors.

Construction contract administration and observation tasks will include, but are not limited to:

- Answer Requests for Information (RFIs) and provide clarification to contract documents
- Review and approve submittals including applications for payment
- Provide direct management of contractors
- Perform site visits as deemed appropriate by design professional to determine if work is proceeding in accordance with Contract Documents and Project schedule
- Prepare construction progress observation reports and morning construction tailgate meeting minutes and submit them to BNW
- Provide professional recommendations for any Change Orders



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- Coordinating delivery of record drawings
- Scheduling substantial completion walkthrough, developing punch-list, and issuing certificate of substantial completion
- Scheduling final walkthrough, ensuring punch-list items were satisfactorily completed and issues Notice of Final Acceptability

Period of Establishment (POE): The Consultant shall be retained to provide assistance after issuance of the certificate of substantial completion through the one-year POE. Substantial completion is anticipated to occur in Fall of 2024, with the POE extending for one full year, until Fall 2025. During the POE, the Consultant shall conduct up to four (4) site visits to observe design performance of the constructed Project, and if deemed appropriate by the design professional, recommend any corrective action that should be taken by the Contractor prior to final acceptance of work at the end of the POE. Satisfactory design performance may include, but is not limited to:

- Adequate plant growth
- Stabilized sediment
- No observable impacts (flooding) in stormwater drainage areas
- Reduction of stormwater runoff reaching the waterbody

Final Acceptance and Issue Notice of Acceptability of Work: After a final walkthrough of the site at the conclusion of the POE, and if design is functioning as intended, the Consultant will notify BNW and the Contractor that they have determined that the work is acceptable by issuing a 'notice of acceptability of work'. After the notice is received, BNW will make the final payment to Contractor and close-out the Project.

Task 06 – Reporting

Monthly Progress Reports are required to be submitted to BNW along with requests for payments. Reporting due dates will be set by BNW and will be identified in the Agreement between BNW and the selected Consultant.

A short summary report stating the goals of the Project and tasks completed to reach those goals will be required from the selected Consultant at the time of their request for final payment.

D. PROJECT SCHEDULE



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Upon receipt of award notification, selected Consultant will work with BNW's legal department to execute a contract for services. Once the contract is executed, the Consultant may begin the tasks outlined in the Scope of Services. The Consultant is anticipated to begin their services in January 2023.

The Consultant will develop the construction contract document bid package, stamped by a NYS Licensed Design Professional, sufficient for the construction of all Project elements, by October 2023. Construction Bid Advertisement will be released shortly after with construction commencement anticipated in November 2023 (major construction will be scheduled in an effort to limit interference with summer golf play as much as possible).

POE will extend one full year after the date of construction's substantial completion with final acceptance of work occurring after the POE by December 2025.

The Consultant must agree to commence work on the issue date and to fully complete the Project within the time limit specified in the Agreement. All deliverables identified in the *Anticipated Scope of Services* are targeted for completion by December 2025 or at such later date as shall be established by BNW.

E. PRICING PROPOSAL

The pricing proposal must be broken down by each task and sub-task. Each task and subtask must be identified in the same order as outlined within the *Anticipated Scope of Services*.

The Consultant is encouraged to recommend items and their costs that might be deleted or added to the Project to improve the outcome of the Project or provide cost savings. Any such suggested additions or deletions must be identified with highlighting and must include a statement explaining the reason for the recommendation and any the potential impact upon the Project's overall budget or schedule.

All costs must be included in the proposal including administrative costs (travel, printing, per-diem, etc.). Please include a total cost for completion of the entire proposal at the bottom of the pricing proposal.

F. REQUIRED STATEMENTS

Respondent must provide the following statements:



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1. Certifying that they are not currently employed by or affiliated with BNW.
2. Providing availability of all required insurance at the time of contract execution. The selected Team will be required to maintain the types and limits of insurance listed below. Certificates naming BNW and the landowner as additional insured, which reflect a Waiver of Subrogation will be required. Certificates of insurance must be provided to BNW prior to the commencement of the Project. The types and limits of insurance as required by BNW include:
 - a. A commercial General Liability Policy of at least \$1,000,000; \$2,000,000 aggregate; and
 - b. Auto Insurance coverage of \$1,000,000 including rented and unowned vehicles; and
 - c. Umbrella Insurance with at least \$2,000,000 in coverage; and
 - d. New York State Worker's Compensation Coverage; and
 - e. Professional Insurance of at least 1,000,000; and
 - f. Pollution Liability Insurance of at least \$1,000,000
3. That they will indemnify and hold harmless BNW and their agents during the contract period.
4. Certifying that they and their employees are legally able to work in the United States and New York State, specifically, and are legally authorized to provide the services reflected in the proposal.
5. Statement disclosing any personal or financial interest between the Consultant and BNW. A conflict of interest shall be defined as an interest which occurred in the past three years, and which may cause bias or the presumption of bias.
6. Statement that Consultant is in compliance with the terms of 2 C.F.R. Part 180, Subpart C and specifically has not been disbarred for any reason as outlined under 2 C.F.R Section 180.800(a) in the past three (3) years.

III. SUBMITTAL REQUIREMENTS

A. QUESTIONS REGARDING THE RFP

A pre-proposal meeting will be held on November 1, 2022, at 9am to review the RFP and Project goals and answer general questions. Participants are strongly encouraged to review this RFP and visit the Project Site prior to the meeting. Attendance by the primary Consultant at the pre-proposal meeting is mandatory for those intending to submit a proposal.



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Responders who have any questions regarding this RFP/Project are permitted to submit questions in writing to Bonnie Majda, Administrative Assistant, at the following e-mail address: bmajda@bnwaterkeeper.org with the subject line "Questions Regarding RFP for Gill Creek Green Infrastructure Solutions". All questions must be received by 3pm EST on November 8, 2022. Questions will be answered in writing and sent to all participants that attended the mandatory Pre-Proposal meeting, via e-mail correspondence. No questions will be answered over the phone.

Other BNW personnel are not authorized to discuss this RFP with responders, before the proposal submission deadline. Contact regarding this RFP with any person not listed above could result in disqualification.

B. SUBMITTAL INSTRUCTIONS

Project Proposals are due by 2pm on December 2, 2022.

A proposal must include, and be formatted, as per the following:

- A. Executive Summary and Project Approach Letter
- B. Consultant Qualifications
- C. Anticipated Scope of Services
- D. Project Schedule
- E. Pricing Proposal
- F. Required Statements

One (1) digital version of the complete proposal saved as a .pdf file shall be delivered via email to the person named below no later than December 2, 2022, at 2pm EST. Late, corrupt, or incomplete proposals may be rejected. Proposal files shall be clearly labeled to identify the name of the Consultant and the Project name and may not exceed 20 MB (multiple files are acceptable). Proposals will receive a confirmation email of receipt within one business day of submittal.

Proposals must be delivered to:

Bonnie Majda

Administrative Assistant

bmajda@bnwaterkeeper.org

C. EVALUATION OF PROPOSALS

BNW and the landowner will review all proposals submitted in accordance with this RFP. All proposals will be reviewed in accordance with, and be subject to, the criteria, procedures,



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submission requirements, and other requirements outlined in this RFP. Proposals will be evaluated based on (but not limited to): clarity of proposal, understanding of the Project, Project work plan, Project schedule, budget, experience/past performance of team, experience of Project manager, team qualifications, etc. Please see Attachment C for additional information.

After receipt and review of the proposals, BNW may, at its discretion, interview one or more Consultants that submitted a proposal, to allow the Consultants an opportunity to present their proposal and answer BNW's questions.

Consultant interviews (remotely), if deemed necessary by BNW, are anticipated to occur the week of December 12 – December 16, 2022. All respondents will be notified in writing as to whether they were selected or not selected to provide the services described in this RFP by the end of 2022.

The Project will be awarded to one Consultant that will be held solely responsible for providing the professional services required for the Project. BNW will award the contract to the Consultant whose proposal, at BNW's discretion, is in the best interest of the Project. BNW is not required to select the lowest bidder.

The selected Consultant will be required to enter into a Consulting Agreement with BNW, using BNW's standard Agreement. Consultant shall not begin any work outlined within the RFP prior to execution of mutually agreed upon written Agreement executed by both parties.

BNW does not assume the responsibility or liability of costs incurred by responding to this RFP or to any subsequent requests for proposals, interviews, additional information, submissions, etc. prior to issuance of an agreement.

IV. MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISE (M/WBE) GOOD FAITH EFFORTS

Although the Project has no specific M/WBE percentage or inclusion requirement, EPA requires that the Consultant make good faith efforts whenever procuring construction, equipment, services and supplies under an EPA financial assistance agreement. Written documentation of a statement of compliance with the six good faith efforts shall be submitted to BNW upon Project kickoff. The specific six good faith efforts can be found at: [40 CFR Section 33.301 \(a\)-\(f\)](#).



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V. MISCELLANEOUS

BNW reserves the right to postpone or withdraw this RFP; to accept or reject any and all proposals; to modify or amend the terms of this RFP, or to waive any requirement of this RFP with respect to one or more respondents; to negotiate or hold discussions during the interview process (if conducted) regarding the terms of any proposal received in response to this RFP, or take any other actions with respect to issuance or award of this RFP; all as BNW may deem to be in the best interest of BNW and the Project.

In accordance with 2C.F.R. §200.322, the Consultant shall consider during design to the greatest extent practicable, a preference for the purchase, acquisition, or use of goods, products or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products).

Attachment A

Figures



NYS ITS GIS Program Office

PROJECT LOCATION

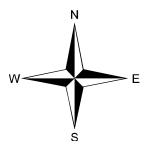
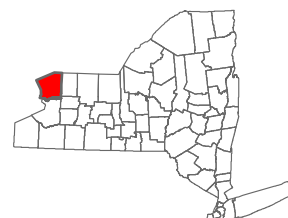
City of Niagara Falls, Niagara County, New York

GILL CREEK GREEN INFRASTRUCTURE SOLUTIONS



**BUFFALO NIAGARA
WATERKEEPER®**

--- Hyde Park
 ■ Project Area



0 125 250 500 750 1,000
 Feet

Notes: Created by HK on June 8, 2022





NYS ITS GIS Program Office

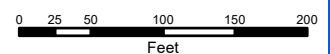
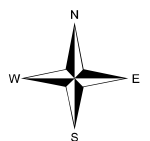
PROJECT SITE

City of Niagara Falls, Niagara County, New York

GILL CREEK GREEN INFRASTRUCTURE SOLUTIONS



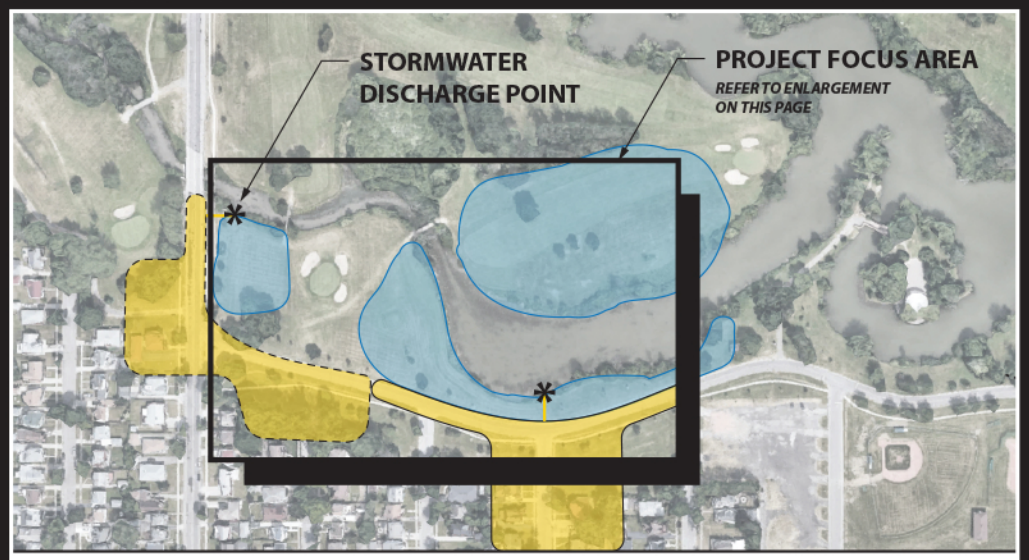
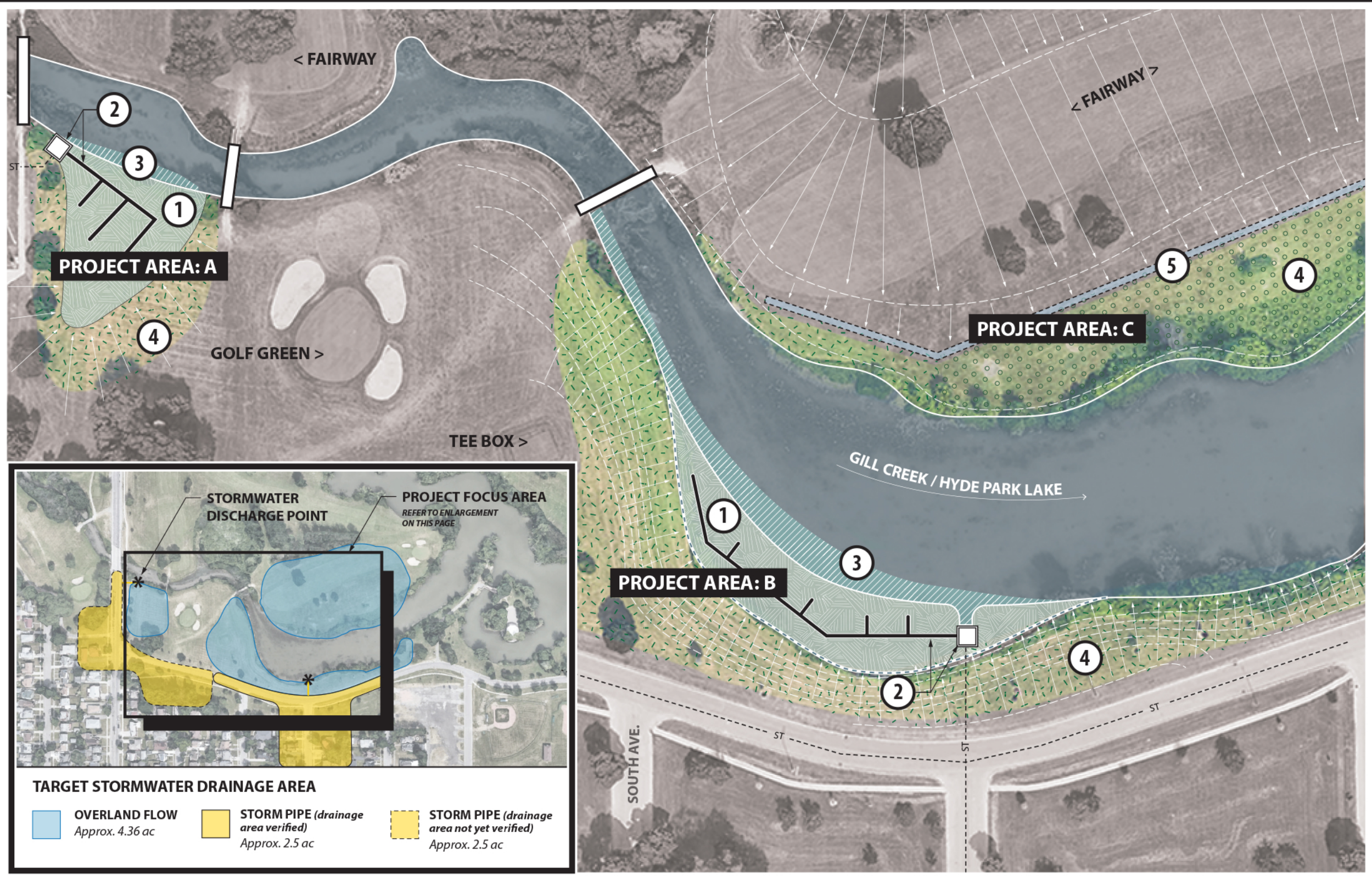
-  Hyde Park
-  Project Site



Notes: Created by HK on June 8, 2022

Attachment B

Preliminary Project Approach Graphic



TARGET STORMWATER DRAINAGE AREA		
OVERLAND FLOW Approx. 4.36 ac	STORM PIPE (drainage area verified) Approx. 2.5 ac	STORM PIPE (drainage area not yet verified) Approx. 2.5 ac

- ### PLAN NOTES
- SHRUB SWAMP / FLOODPLAIN:**
Two floodplain benches are proposed. One will be cut back from the existing shoreline into an upland area, and the other will utilize fill material to extend out into the waterbody from the existing shoreline. These new floodplain benches will intercept stormwater from both point and non-point sources. Dense plantings will absorb and transpire stormwater, uptake nutrients, and provide many habitat benefits for fish and wildlife.
 - STORMWATER DIVERSION:**
New catch basins will divert stormwater via perforated pipes and french drain system away from the waterbody and into the proposed floodplain bench areas.
 - FRINGE WETLANDS:**
Shallow water areas will be planted with diverse emergent wetland species. Emergent plants offer many valuable ecological services, one of which is nutrient absorption.
 - NATURAL REGENERATION AREA:**
In partnership with golf course maintenance crews, we will establish herbaceous meadows and broad no mow zones which will help reduce the amount of stormwater runoff reaching the waterbody. Additional plantings of native trees and shrubs will be incorporated with any remaining funds after construction to maximize stormwater absorption and habitat value in areas that don't interfere with golf play.
 - INFILTRATION TRENCH:**
This common edge-of-field practice will capture sheet flow runoff from the golf course before it enters the waterbody.

PLAN KEY

PROPOSED MEADOW AREAS	
PROPOSED RIPARIAN PLANTING AREAS	
PROPOSED EMERGENT WETLAND	
PROPOSED SHRUB SWAMP / FLOODPLAIN	
EX. SHORELINE 	PROPOSED SHORELINE
CONTOUR* 	SURFACE RUNOFF
EX. STORM PIPE ST	PROPOSED PERF. PIPE
PROPOSED CATCH BASIN 	

* Contours on plan are not from a survey and represent approximate site conditions. Actual site contours will be determined from a field survey during design development.



Oct. 2022

GILL CREEK - GREEN INFRASTRUCTURE SOLUTIONS

Preliminary Project Approach Graphic

NORTH

0' 30' 60'

Attachment B

Attachment C

BNW Proposal Score Card

PROPOSAL SCORECARD FOR PROFESSIONAL DESIGN SERVICES

Project Name: _____
 Consultant Team: _____
 Date Reviewed: _____
 Reviewer Initials: _____



PROPOSAL SUBMITAL REQUIREMENTS: All boxes must be checked "yes" by the project manager to begin scoring proposal			
	Y	N	Notes
Was consultant at pre-proposal meeting?			
Was submission received by indicated deadline?			
Project Approach Letter			
Organization Description			
Organizational Chart			
Designation of a Primary Point of Contact			
Resumes of Project Personnel			
Consultant is a NYS licenced professional engineer			
Team includes a member with hydrological engineering experience			
Resumes of sub-Consultants			
Three (3) References for work of a similar nature			
Anticipated Scope of Services (Tasks 1-6)			
Project Schedule included and aligns with milestones outlined in RFP			
Pricing Proposal included with submission and is within budget			
Statement that the Consultant is not Currently Employed by, or Affiliated with, BNW			
Statement Providing Availability of Required Insurance			
Statement of Legally Able to Work in the United States and NYS			
Statement disclosing any conflict of interest			

SCORING MATRIX	Score / 100 pts.
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1 PROJECT UNDERSTANDING: (55 pts.)

- Understanding of Project objectives outlined in Executive Summary (5 pts.)
- Clear description of project approach and methodology in Project Approach Letter (5 pts.)
- Proposal clearly outlines tasks (1-5) in the Anticipated Scope of Services (45 pts.)
 - > Task 01 - Project Kick-off (5 pts.)
 - > Task 02 - Background Review/Surveys/Data Collection/Existing Conditions Report (10 pts.)
 - > Task 03 - Design Development (10 pts.)
 - > Task 04 - Permitting (5 pts.)
 - > Task 05 - Bidding, Awarding, and Construction Contract Administration (10 pts.)
 - > Task 06 - Reporting (5 pts.)

2 QUALIFICATIONS: (20 pts.)

- Team includes member with hydrological engineering experience (5 pts.)
- Team includes member knowledge of nature-based stormwater management (5 pts.)
- Team includes NYS licenced professional engineer (5 pts.)
- Team includes members with wetland ecology and shoreline restoration knowledge (5 pts.)

3 PROJECT EXPERIENCE: (15 pts.)

- Project example of nature-based stormwater management (5 pts.)
- Project example of shoreline restoration (5 pts.)
- Project example showing teams capacity to perform hydrologic analysis (5 pts.)

4 PROJECT SCHEDULE: (5 pts.)

- Includes all major milestones and provides clear road map for satifying project schedule (5 pts.)

5 PROPOSAL PRICING: (5 pts.)

- Overall clarity of cost breakdown (5 pts.)

TOTAL SCORE:

ADDITIONAL COMMENTS: