



**STATE AND MUNICIPAL FACILITIES PROGRAM
PRELIMINARY APPLICATION**

**Grady Park & High Falls Gateway Improvements
Town of Marbletown, Hamlet of High Falls, NY
November 20, 2020**

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State and Municipal Facilities Program Preliminary Application Form

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STATE AND MUNICIPAL FACILITIES PROGRAM PRELIMINARY APPLICATION

Project Category: State and Municipal Economic Development * Environmental*
** projects in these categories may require additional information and approval/certification*

SECTION 1: DATA SHEET / GENERAL INFORMATION

A. Project Name: Grady Park

Project Location: High Falls, NY 12440

B. Applicant Organization: Town of Marbletown

Legally Incorporated Name: Town of Marbletown

Street (not P.O. Box): 1925 Lucas Avenue

City: Cottekill Zip: 12419 County: Ulster

Phone: 845-687-7500 Ext: 7 Fax: _____ E-mail: supervisor@marbletown.net

Contact Name & Title: Richard Parete---Town Supervisor

Federal Taxpayer I.D./Charity Reg.# (Non-profits Only): 14-6002289

1. Type of Organization:

Municipality Local Development Corporation or Industrial Dev. Agency

Business Corporation Other (please describe) _____

2. Is the organization currently seeking or receiving any other New York State assistance for this project?

(X) No () Yes

If your answer is "yes", please provide a detailed explanation on an attached separate sheet.

3. Name of project beneficiary if not applicant:

SECTION 2: PROJECT DESCRIPTION

A. Project Description and Amount

See attached project description

1. Please attach a detailed description of the specific capital project that will be undertaken and funded pursuant to this application. See attached project description.

See attached project description

2. Please list the amount of funding anticipated to be received from the State and Municipal Facilities Program for this project.

\$ 125,000

3. Project Start Date: September 1, 2019 Anticipated Date of Project Completion: 12/31/2021

SECTION 3: PROJECT BUDGET, DISBURSEMENT SCHEDULE, & OPERATING COSTS

A. Use of Funds

Complete the following Project Budget detailing the proposed sources and uses of funds (attach additional sheets if necessary). See Exhibit C and H.

See Exhibit G and H

| <u>USE OF FUNDS</u> | <u>SOURCES</u> | | | <u>TOTAL</u> |
|---|----------------|---|---------------|--------------|
| See Exhibit G and H for further details | State | In-Kind/ Equity/Sponsor Contribution | Other sources | |
| Direct Costs: | | | | |
| Area 1: Parking Lot & Event Space | \$75,650.00 | \$113,107.000 | | \$188,757.00 |
| Area 5: Western Sidewalk | \$49,350.00 | | | \$49,350.00 |
| Poison Ivy Patrol | | \$11,000.00 | | \$11,000.00 |
| 99 Year Lease D&H | | \$25,000.00 | | \$25,000.00 |
| Indirect/Soft Costs: | | | | |
| Engineering, Survey | | | | \$89,216.00 |
| Total: | \$125,000.0 | \$238,323.00 | \$ | \$363,323.00 |

B. Please describe other sources of funds and if they have been secured.

C. Does the project require environmental or other regulatory permits? () No (X) Yes
 Have they been secured? (X) No () Yes () NA

D. Has any State or local government agency reviewed the project under the State Environmental Quality Review Act (SEQRA) or is such review necessary to obtain any governmental approvals?
 () No (X) Yes () NA

E. Please describe the ongoing operating costs required to maintain the proposed project and the sources of these funds. Operating Funds will include mowing and other general maintenance of the park.
 See Exhibit G.

SECTION 4: ELIGIBILITY FOR TAX-EXEMPT FINANCING

1. Do you believe your project is eligible for tax-exempt financing under the Federal Internal Revenue Service code? () No (X) Yes
2. Has the applicant or proposed recipient of funds previously received financing from the sale of tax-exempt bonds? If yes, attach a schedule describing the details of such financing. (X) No () Yes
3. Does the applicant or proposed recipient of funds anticipate applying for financing for this project from the sale of other tax-exempt bonds? (N) No () Yes
4. Have any funds been expended or obligations incurred to date on that portion of the project for which this application is made? If yes, attach a schedule showing details of such disbursements (date, purpose, payee, etc.). () No (X) Yes
5. Does the applicant or proposed recipient of funds plan to occupy 100% of the project facility? If no, attach a schedule explaining the planned occupancy. () No (X) Yes

Signature of Applicant:

Date: 6/10/2020

Section 2: Project Description

Project Name: Grady Park & High Falls Gateway Improvements

Project Location: Town of Marbletown, Hamlet of High Falls, Old NYS Route 213

Project Description & Benefits:

The Town of Marbletown, the High Falls Conservancy, the High Falls Civic Association and other stakeholders and volunteers have been collaboratively working with the public to develop conceptual designs for the restoration and expansion of Grady Park, located in the Hamlet of High Falls on land between the current and former road alignments of NYS Route 213. The proposed project is envisioned to include a community gathering space, a memorial space, ADA-compliant accessible pathways, landscaping, benches, picnic areas, lighting, as well as on-street parking and improvements to the existing shared municipal parking area serves the existing neighboring local food coop, the post office, local eateries and other nearby businesses.

The proposed project is not only recreational in nature, it incorporates important “Community Gateway” enhancements to the Hamlet of High Falls including many necessary pedestrian and bicyclist safety improvements. The project will include high-visibility crosswalks, ADA-compliant sidewalks, pedestrian refuge islands, and other traffic calming measures. The proposed project will also preserve historic features and provide a historical educational component for the remains of two D & H Canal Locks located on-site.

The proposed project will provide a safe pedestrian connection to the future D & H Historical Society Canal Museum & Visitor’s Center (slated to open in 2022), the High Falls Conservancy Creek Walk and the Central Hudson Walking Path (both located across NYS Route 213 along the Rondout Creek), and the 5-Locks Walk which connects to the 27-mile long O & W Rail Trail, ultimately connecting the City of Kingston to the Village of Ellenville. These regional trail linkages as well as the pedestrian safety components of the project are vital to connect people to local resources, improve quality of life and provide a catalyst for economic revitalization to the region.

Currently, no safe pedestrian or bicycle facilities exist to connect residents and tourist to the Hamlet and the nearby existing and future multi-use trail system. As part of the bigger picture to connect the Hamlet to points located North and South, the proposed improvements will improve access and safety of pedestrians and bicyclists and support users of all means and abilities. This project will fill the gaps and meet a critical demand for safe non-motorized transportation options for both residents and tourists of the communities located in the Rondout Valley.

Project Background & Current Status

With an estimated total project cost of \$1,163,660, the Town has already invested local funds and completed many important tasks with volunteers to advance the project. The Town brought in John Messerschmidt of Poison Ivy Patrol/Hudson Valley Native Landscaping to assist the Highway Department in clearing many years of overgrowth and invasive species and expose the ruins of Lock 17 and 18 (see Exhibit E). In addition, the Town hired an engineering consultant to complete the following:

- Site Boundary, Topographic, and Utility Survey for the park site (see Exhibit A)
- Conceptual Design (see Exhibit B)

- Public Outreach Meeting and Survey (see Exhibit C)
- Preliminary permitting research (see Exhibit D)

Currently, the Detailed Site Plans are being developed which include a memorial plaza, a network of ADA accessible pedestrian walkways with seating areas, plazas and gathering spaces, as well as new on-street parking, site access enhancements, and hardscape improvements to an area that serves as a seasonal farmers market. Additionally, the site contains two historic canal remains which will be revitalized and showcased as part of the overall park aesthetic. Documentation of In-Kind/Equity/Sponsor Contribution are included in Exhibit E.

Phases

The project will be divided into phases for ease of implementation. This grant request is for:

- Area 1: Parking Lot and Gravel Event Space; and.
- Area 5: Western Sidewalk Connection To Creekwalk.

The phases are illustrated in Exhibit F.

Sources and Use of Funds

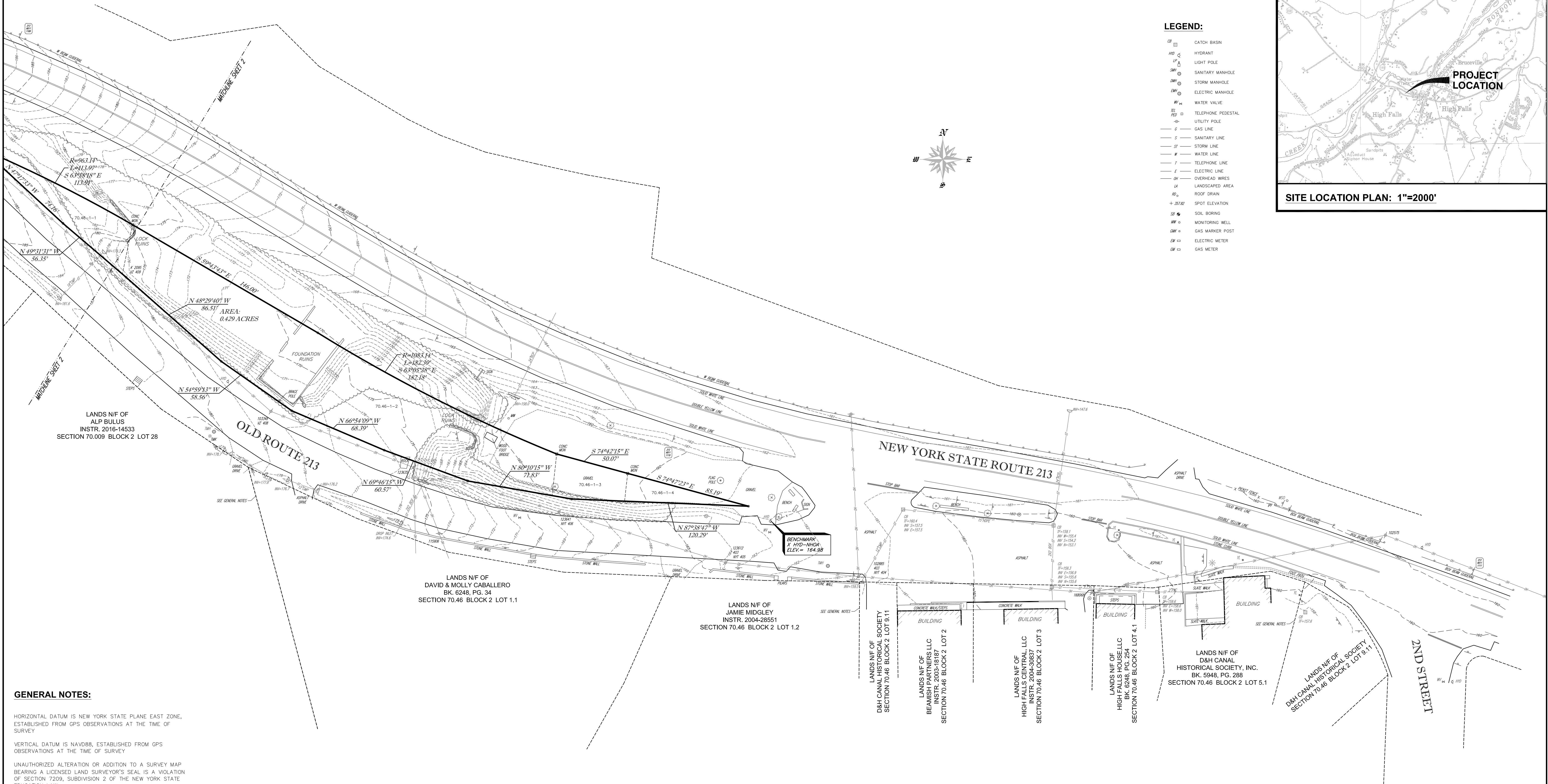
See Exhibit G.

Cost Estimate

A certified Engineering, Architecture and Landscape Design company has developed a detailed Cost Estimate. See Exhibit H.

EXHIBIT A.

Site Boundary, Topographic, & Utility Survey



GENERAL NOTES:

HORIZONTAL DATUM IS NEW YORK STATE PLANE EAST ZONE,
ESTABLISHED FROM GPS OBSERVATIONS AT THE TIME OF
SURVEY

VERTICAL DATUM IS NAVD88, ESTABLISHED FROM GPS OBSERVATIONS AT THE TIME OF SURVEY

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

SURVEYED FROM RECORD DESCRIPTION AND AS IN POSSESSION.
SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS,

SURVEY SUBJECT TO ANY RIGHT, TITLE OR INTEREST THE
CONDITIONS AND AGREEMENTS OF RECORD.

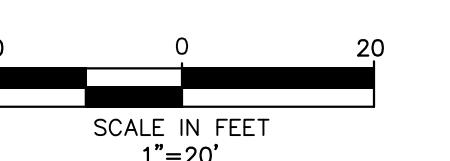
SURVEY SHOWN IS SUBJECT TO ANY SUBSURFACE CONDITIONS
THAT MAY EXIST, IF ANY.

UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON
WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND
RECORD DRAWINGS. ALL ABOVE GROUND STRUCTURES AND
SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A
FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE
OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE
NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. THE SIZE AND
LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES
MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE
UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE
NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION
AND CONSTRUCTION.

ADJACENT PROPERTY LINES AS SHOWN HEREON ARE APPROXIMATE ONLY.

MAP REFERENCES:

1. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 19, PARCELS 27 & 28." PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 1-10-56.
 2. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 12, PARCEL 14." PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 1-6-56.
 3. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 20, PARCEL 29." PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 1-11-56.
 4. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 18, PARCELS 25 & 26" PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 1-11-56.
 5. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 17, PARCEL 24." PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 1-9-56.
 6. "HIGH FALLS-STONE RIDGE, SH NO. 1464, MAP 16, PARCEL 22" PREPARED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DATED 4-5-56.



SHEET 1 OF 2

NYS ROUTE 213

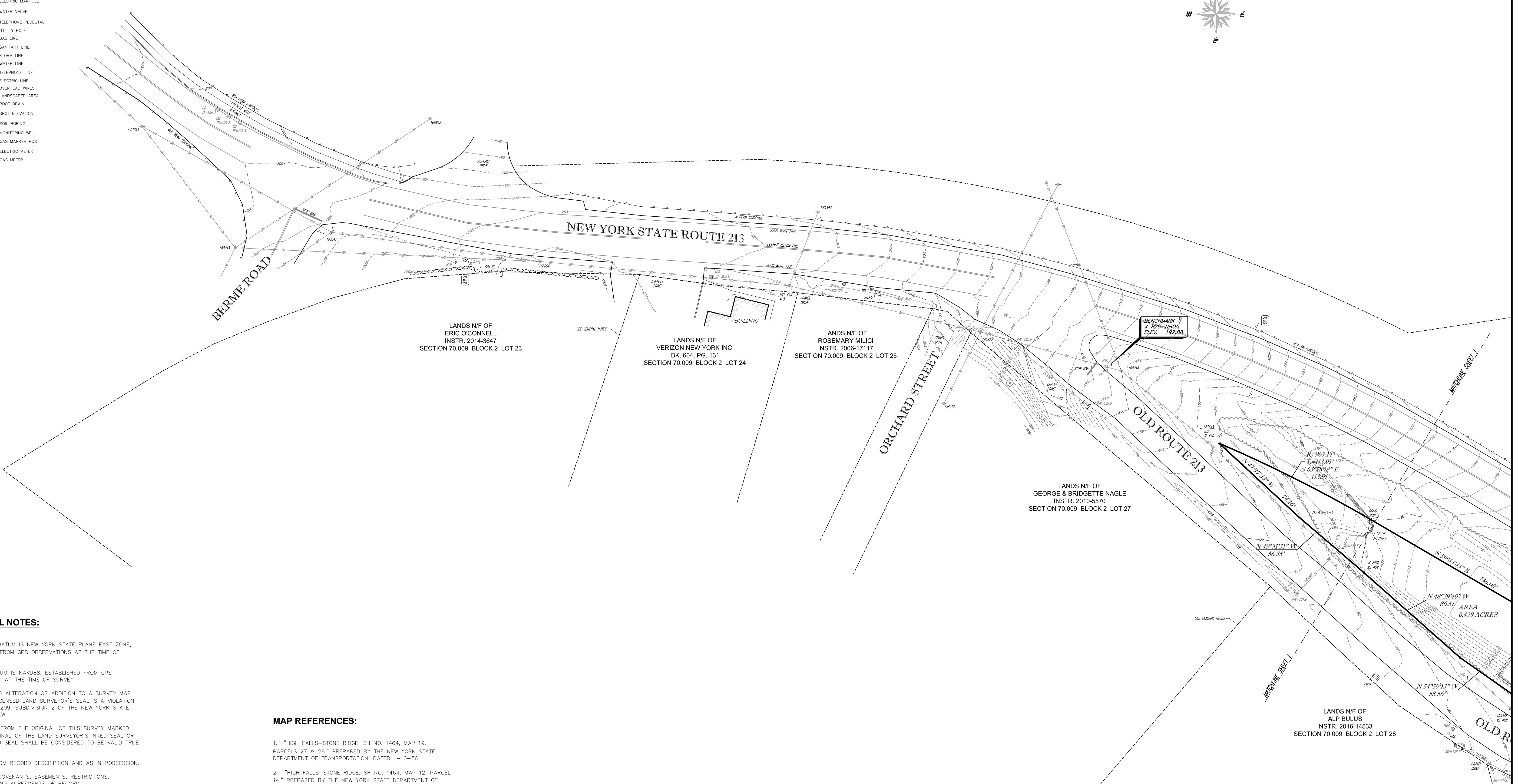
| | | | | | | |
|---------|--|--|---------|--|--|---------------------|
| | | | | NYS ROUTE 213 | | |
| | | | | BOUNDARY & TOPOGRAPHIC SURVEY GRADY PARK HIGH FALLS, NY | | |
| | | | REVISED | |  | |
| | | | | TOWN OF MARBLETOWN | | ULSTER COUNTY, N.Y. |
| | | | | SCALE: 1"=20' | | OCTOBER 22, 2019 |
| | | | | DRAWN BY: KCW | | PROJECT NO: 19-2576 |
| 2-13-20 | | | | Ausfeld & Waldruff Land Surveyors LLP 323 CLINTON STREET, SCHENECTADY NY Phone: (518) 346-1595 Fax: 518-770-1655 | VINCENT P. AUSFELD P.L.S. LICENSE #049597 www.awllslp.com | |



VINCENT P. AUSFELD P.L.S.
LICENSE #049597
www.awlsllp.com

LEGEND:

| |
|--------------------|
| CATCH BASIN |
| HYDRANT |
| LIGHT POLE |
| SANITARY MANHOLE |
| STORM MANHOLE |
| ELECTRIC MANHOLE |
| WATER VALVE |
| TELEPHONE PEDESTAL |
| UTILITY POLE |
| GAS LINE |
| SANITARY LINE |
| STORM LINE |
| WATER LINE |
| TELEPHONE LINE |
| OVERHEAD WIRES |
| LANDSCAPED AREA |
| ROOF DRAIN |
| SPOT ELEVATION |
| SOIL BORING |
| MONITORING WELL |
| GAS MARKER POST |
| ELECTRIC METER |
| GAS METER |



20 0 20
SCALE IN FEET
1'=20'

| | | |
|---|---------------------|---|
| NYS ROUTE 213 | | 49597 STATE OF NEW YORK VINCENT P. AUSFELD PROFESSIONAL SURVEYOR |
| BOUNDARY & TOPOGRAPHIC SURVEY | | |
| GRADY PARK | | |
| HIGH FALLS, NY | | |
| TOWN OF MARBLETOWN | ULSTER COUNTY, N.Y. | |
| SCALE: 1"=20' | OCTOBER 22, 2019 | |
| DRAWN BY: KOW | PROJECT NO: 19-2576 | |
| Ausfeld & Waldruff Land Surveyors LLP | | |
| 323 CLINTON STREET, SCHENECTADY NY | | |
| Phone: (518) 346-1595 Fax: 518-770-1655 | | |

VINCENT P. AUSFELD P.L.S.
LICENSE #046957
www.awllsp.com

EXHIBIT B.

Preliminary Feasibility Sketch
Concept Vetting Sketch

Exhibit B

Preliminary Feasibility Sketch



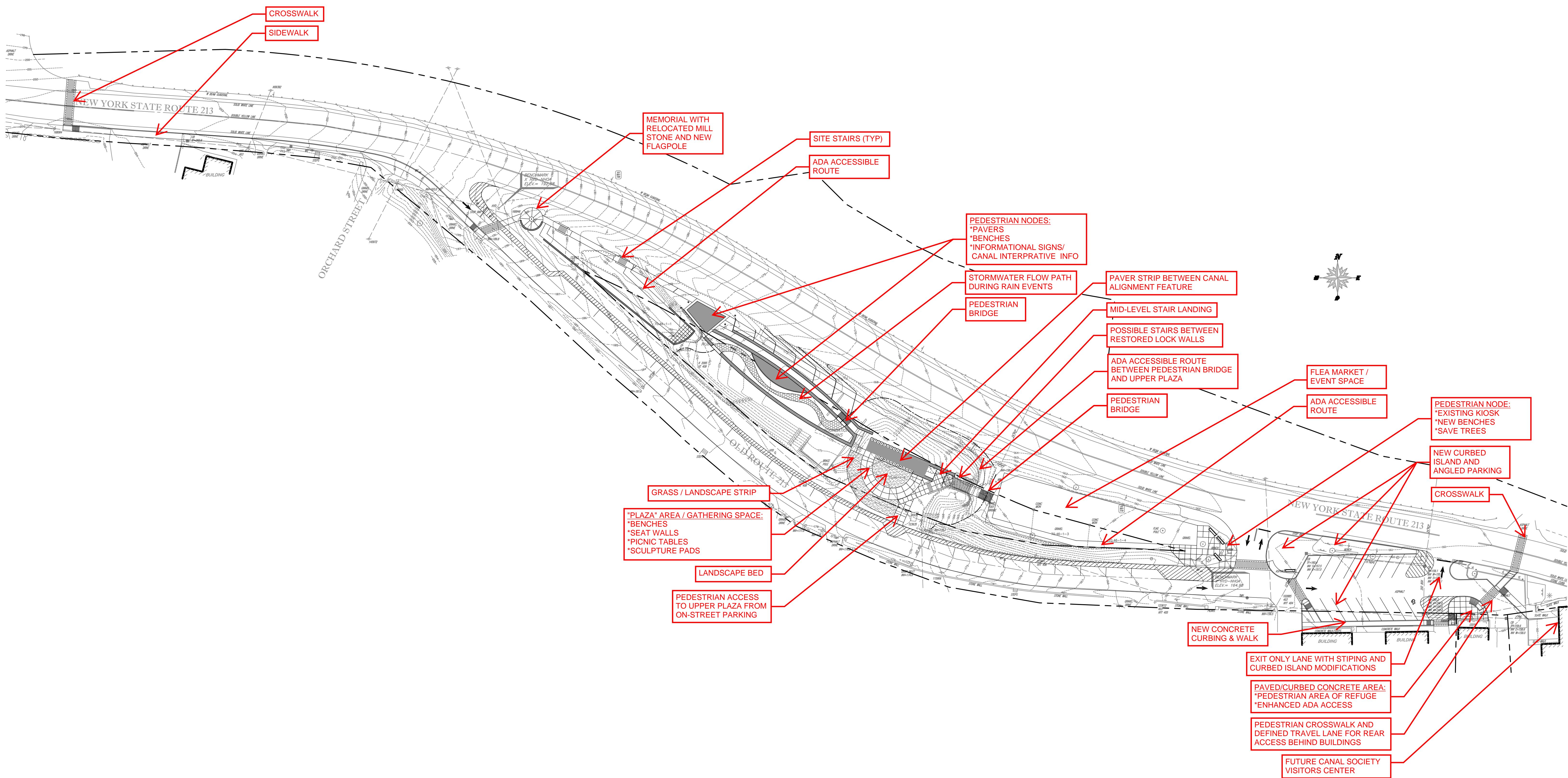


EXHIBIT C.

Public Outreach Meeting and Survey Results



MARBLETOWN
NEW YORK

GPI

Engineering | Design | Planning |
Construction Management

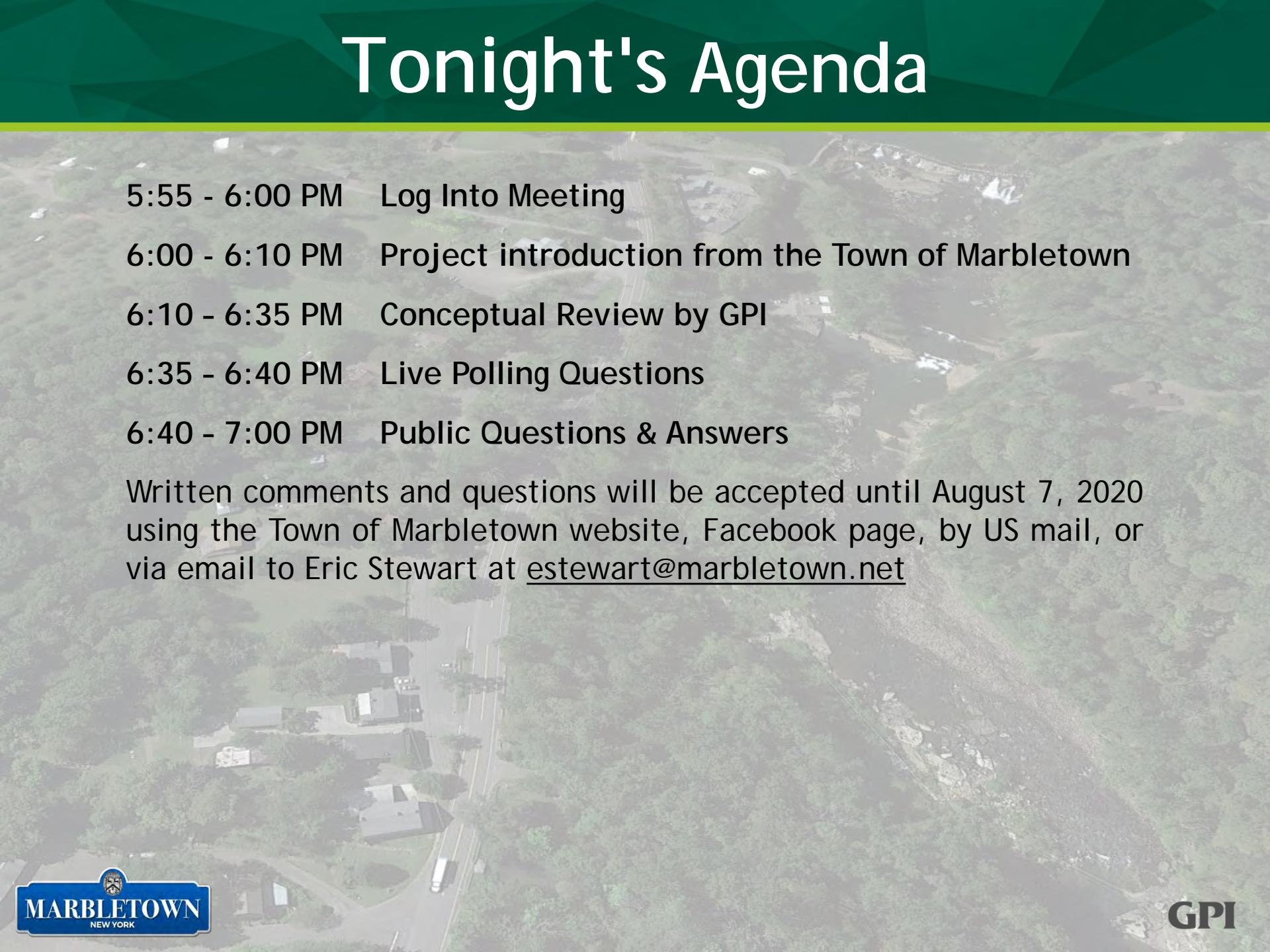
High Falls - Grady Park Improvements Public Information Meeting

July 30th, 2020 6:00 pm



gpinet.com

Tonight's Agenda

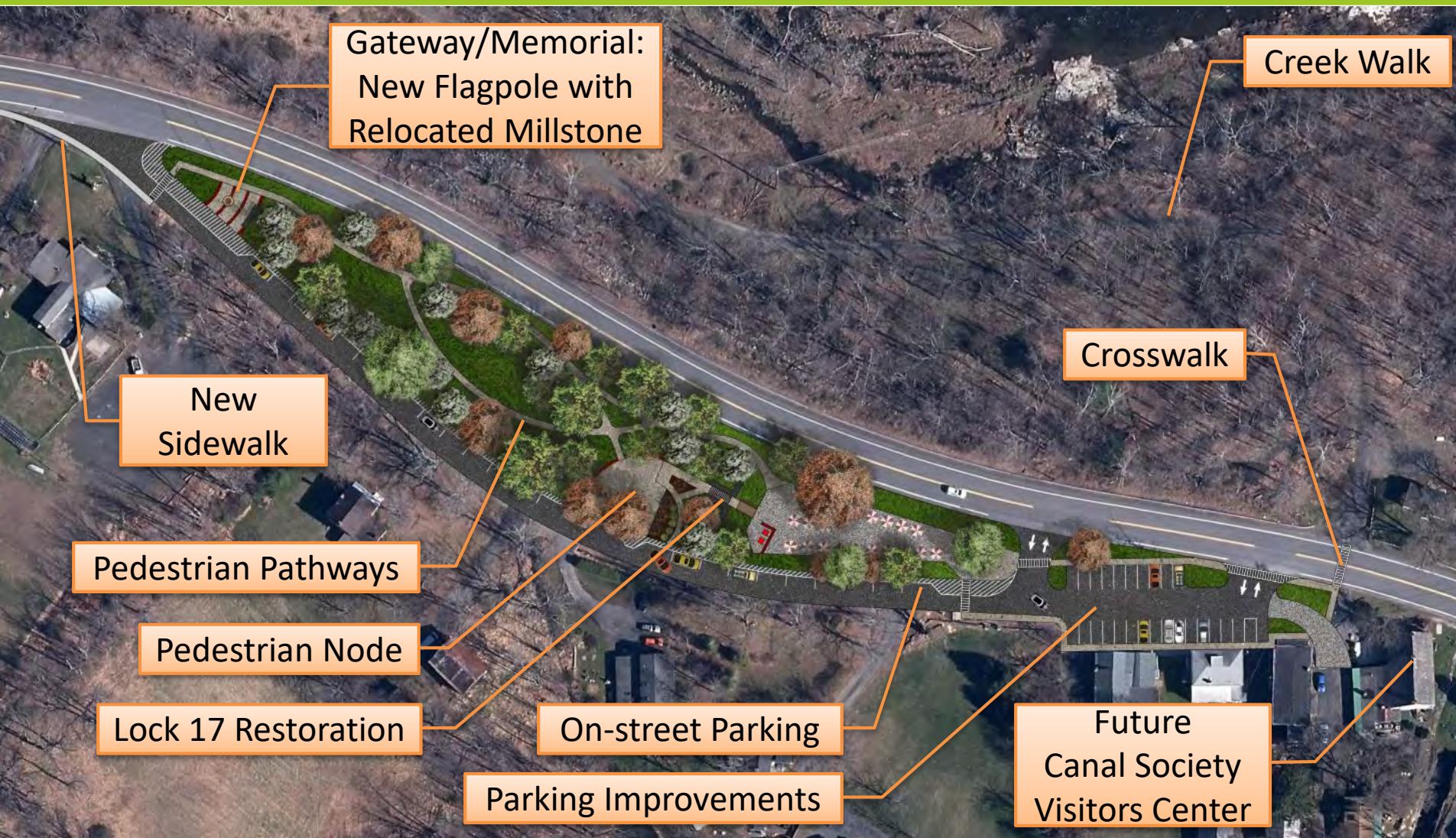
- 
- 5:55 - 6:00 PM Log Into Meeting
 - 6:00 - 6:10 PM Project introduction from the Town of Marbletown
 - 6:10 - 6:35 PM Conceptual Review by GPI
 - 6:35 - 6:40 PM Live Polling Questions
 - 6:40 - 7:00 PM Public Questions & Answers

Written comments and questions will be accepted until August 7, 2020 using the Town of Marbletown website, Facebook page, by US mail, or via email to Eric Stewart at estewart@marbletown.net

Project Objectives

- ◀ Increase the safety and efficiency of pedestrians, cyclists and vehicles in the area around the park.
- ◀ Provide aesthetic enhancements and increase public usability of site.
- ◀ Restore the existing historic canal locks on the site (#17 and #18) and make them focal point features of the park setting. Celebrate and work with their historical significance in the design.
- ◀ Increase tourism and foot traffic in High Falls, thereby benefitting local businesses.
- ◀ Provide ADA accessibility throughout site from east to west.
- ◀ Create connection opportunities to the Creek Walk project located across NYS Rt. 213 and O & W Rail Trail.
- ◀ Enhance connections opportunities to the 5-Locks Walk and other D & H Canal Society projects.
- ◀ Provide additional parking for site and surrounding area amenities.

Preliminary Feasibility Sketch



Example Pedestrian / Bike Accommodations

- ▶ ADA Compliant Curb Ramps
- ▶ High-Visibility Crosswalks with Pedestrian Crossing Signage
- ▶ Bike Share Delineations



Example Seating Accommodations

- ▶ Benches/Game Tables
- ▶ Seat Walls
- ▶ Picnic Tables

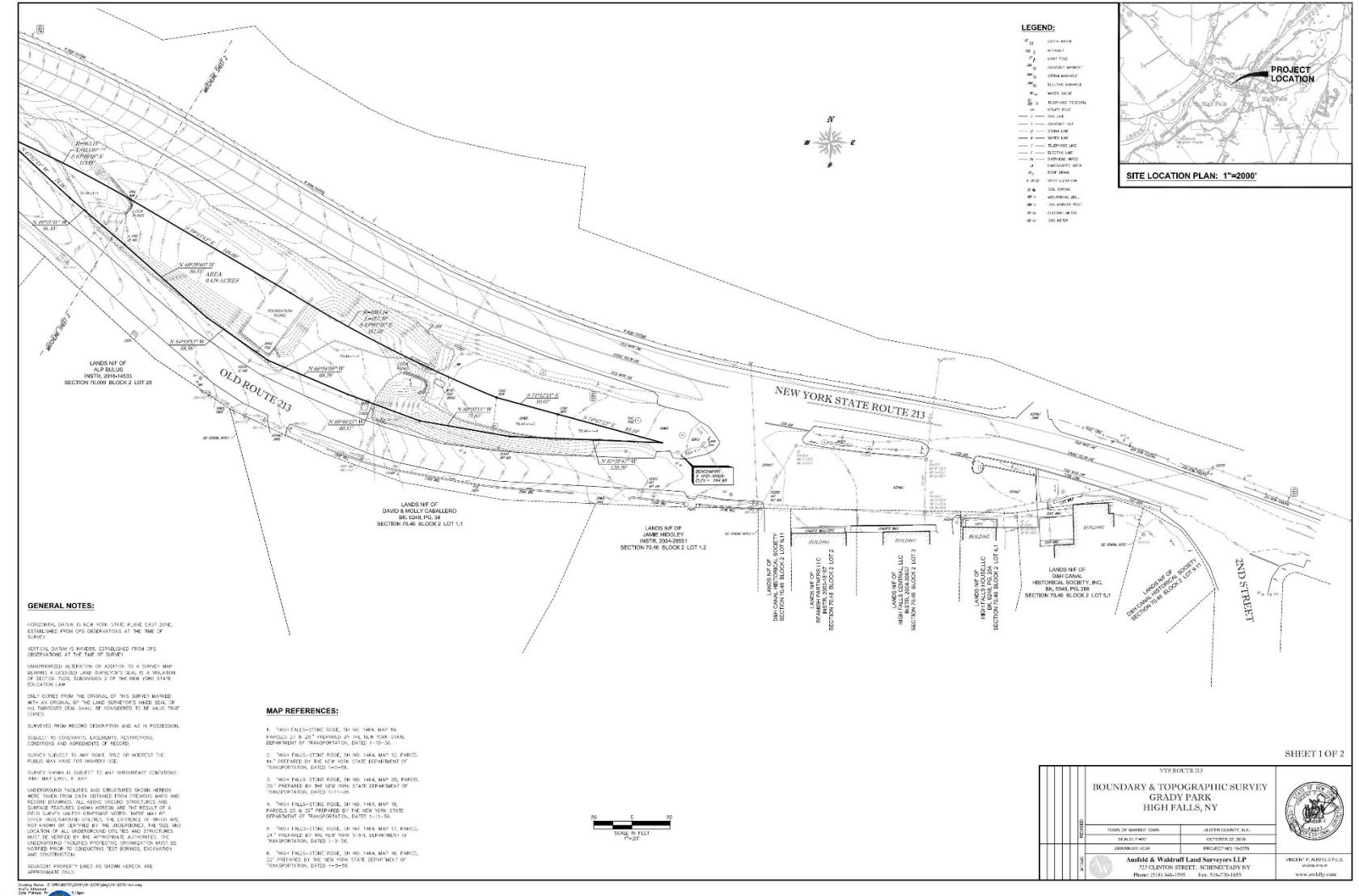


Example Lighting Improvements

- ◀ Ornamental poles and fixtures
- ◀ Pedestrian sizing
- ◀ Neighborhood friendly
- ◀ Dark skies compliant
- ◀ Maintain Aesthetic Continuity with Park and surrounding area

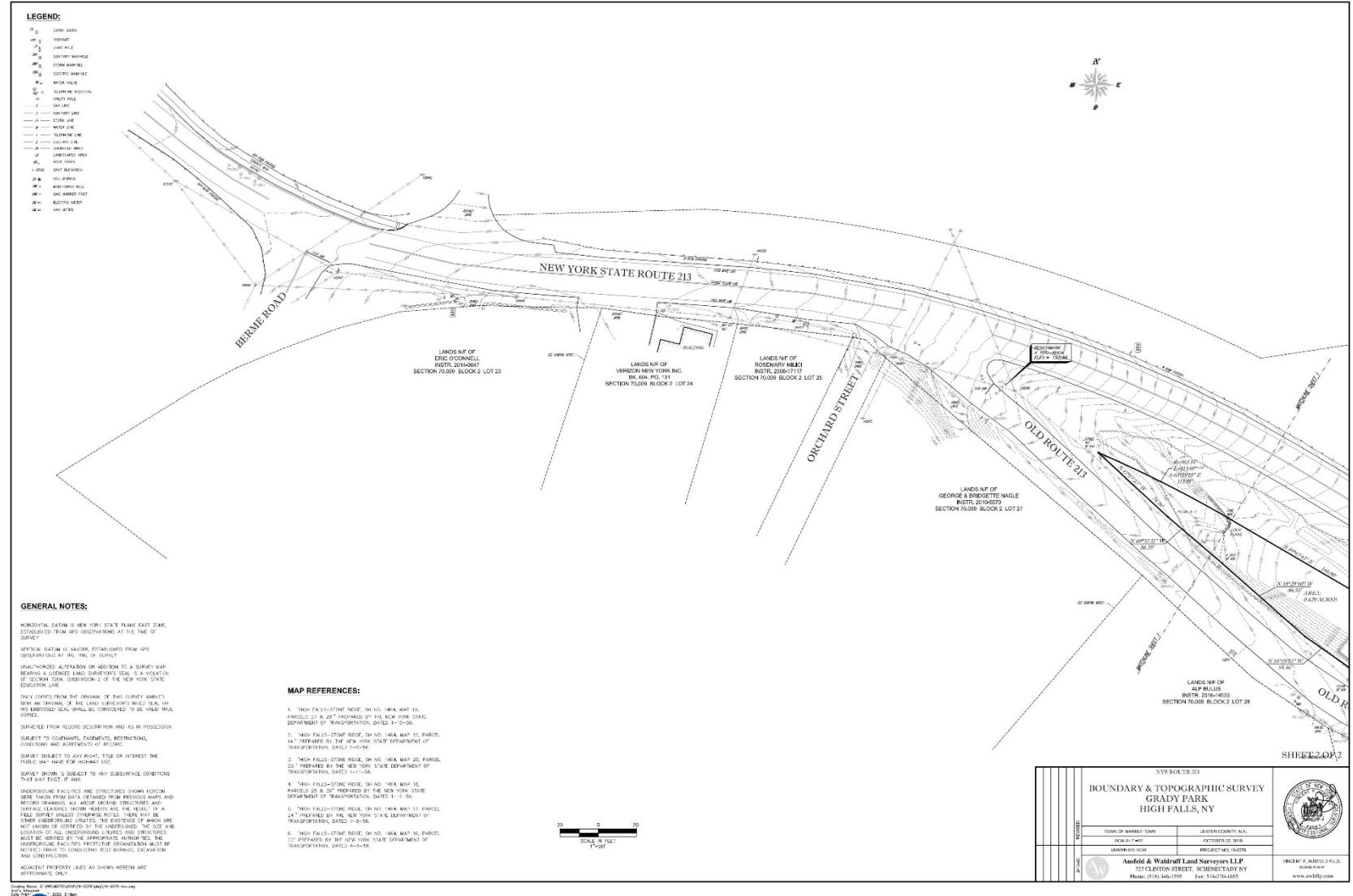


Existing Conditions Survey - East

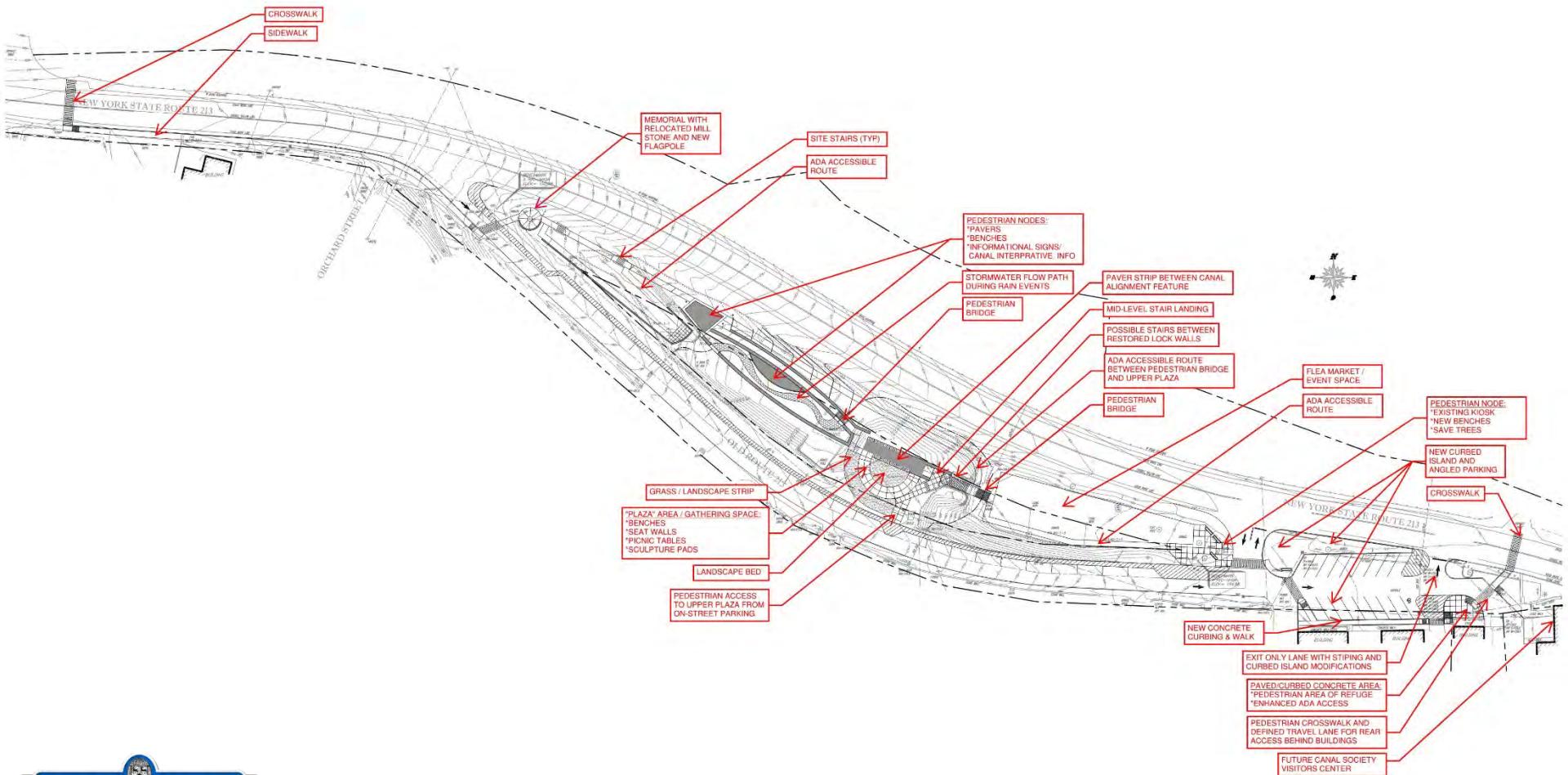


GPI

Existing Conditions Survey - West



Concept Vetting Sketch



Natural Stream Drainage Sketch



- ◀ Natural Plantings
- ◀ River Stone and Boulders
- ◀ Flow Channel Stabilization
- ◀ Creates an amenity/ feature out of stormwater events

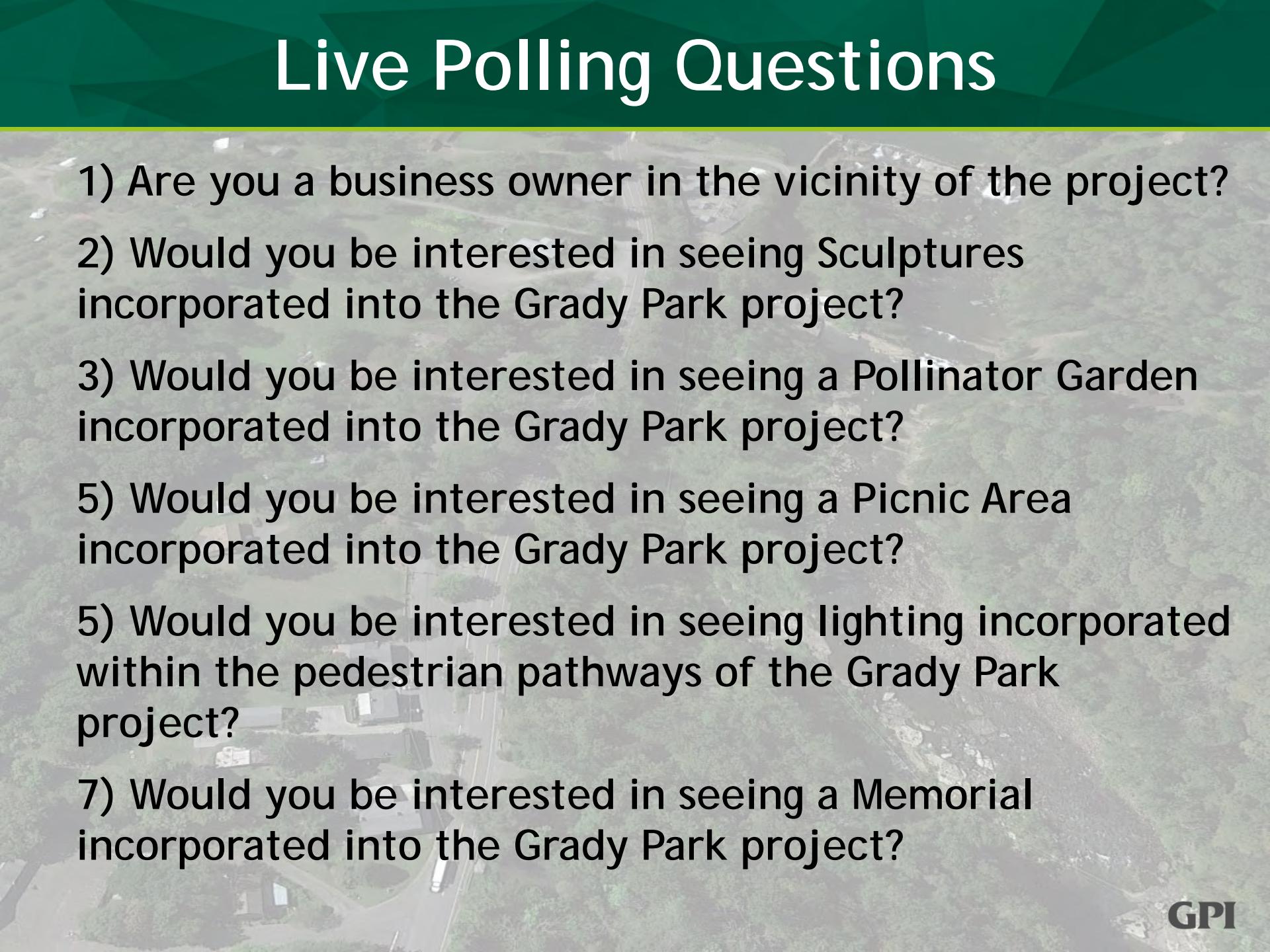


Live Polling

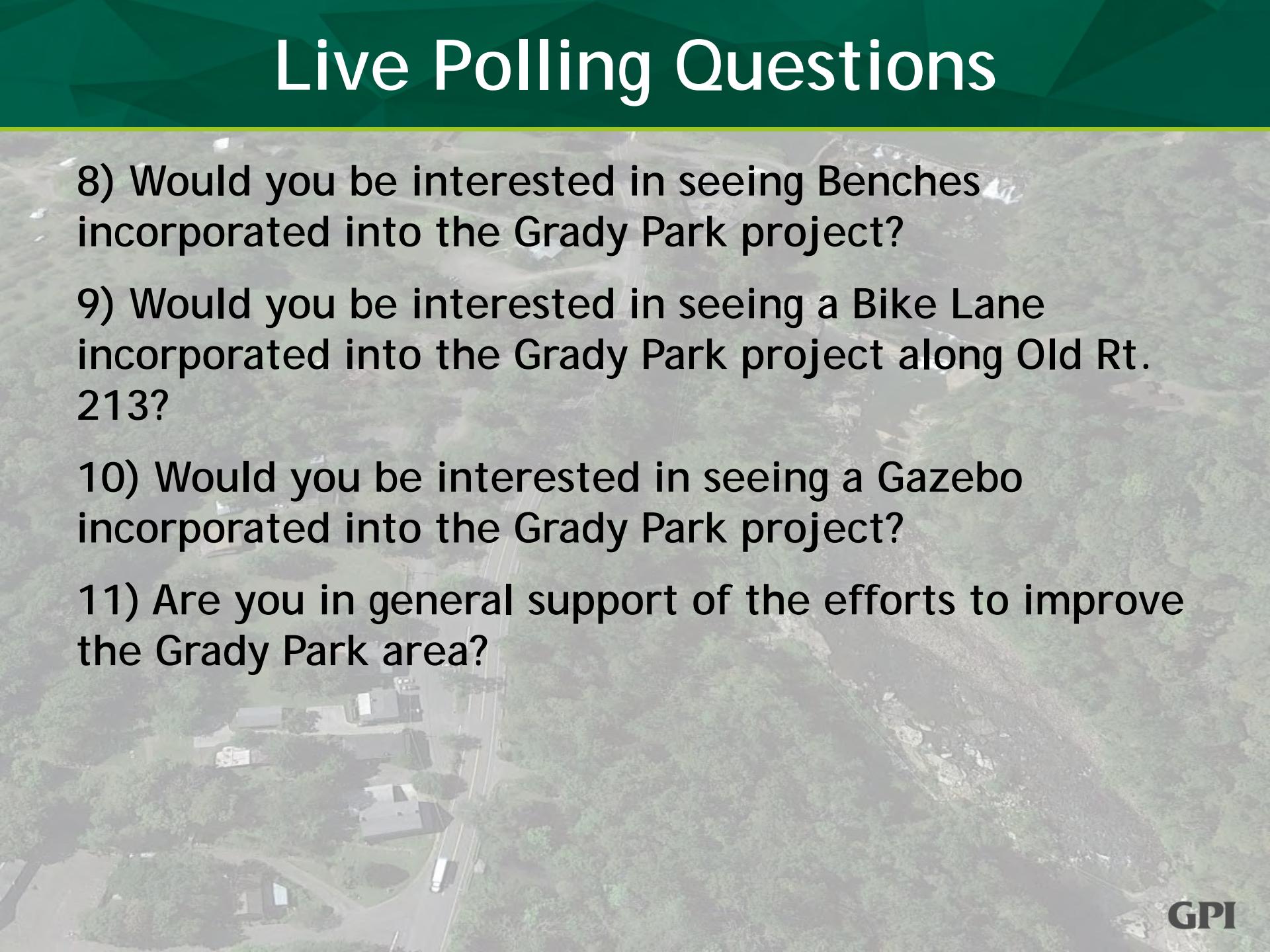
- ◀ Quick poll utilizing your cellphone or computer to gauge public input.
- ◀ Text CTRIPP843 to 22333, visit PollEv.com/ctripp843, or scan the QR Code below to participate in the poll.
- ◀ Please hit “SKIP” when asked to add a screenname if you wish to answer anonymously.



Live Polling Questions

- 
- An aerial photograph of a park area. The image shows a mix of green trees and open grassy spaces. A paved path or road cuts through the center. In the bottom left corner, there is a small, rectangular building with a dark roof. The overall scene is a mix of natural and urban elements.
- 1) Are you a business owner in the vicinity of the project?
 - 2) Would you be interested in seeing Sculptures incorporated into the Grady Park project?
 - 3) Would you be interested in seeing a Pollinator Garden incorporated into the Grady Park project?
 - 4) Would you be interested in seeing a Picnic Area incorporated into the Grady Park project?
 - 5) Would you be interested in seeing lighting incorporated within the pedestrian pathways of the Grady Park project?
 - 7) Would you be interested in seeing a Memorial incorporated into the Grady Park project?

Live Polling Questions

- 
- An aerial photograph showing a park area with a mix of green trees and some open land. A paved road runs through the center, and there are several small buildings, possibly houses or community structures, scattered throughout the landscape.
- 8) Would you be interested in seeing Benches incorporated into the Grady Park project?
 - 9) Would you be interested in seeing a Bike Lane incorporated into the Grady Park project along Old Rt. 213?
 - 10) Would you be interested in seeing a Gazebo incorporated into the Grady Park project?
 - 11) Are you in general support of the efforts to improve the Grady Park area?

Question & Answer



GPI

Many Talents One Firm

gpinet.com

Grady Park July 30, 2020 Public Survey Questions & Results

| Question | Number of Responses | Chosen Responses |
|---|----------------------------|-------------------------|
| #1: Are you a High Falls resident? | 42 | Yes - 26 No - 16 |
| #2: Are you a business owner in the vicinity of the project? | 42 | Yes - 5 No - 37 |
| #3: Would you be interested in seeing Sculptures incorporated into the Grady Park project? | 42 | Yes - 13 No - 29 |
| #4: Would you be interested in seeing a Pollinator Garden incorporated into the Grady Park project? | 42 | Yes - 30 No - 12 |
| #5: Would you be interested in seeing a Picnic Area incorporated into the Grady Park project? | 42 | Yes - 28 No - 14 |
| #6: Would you be interested in seeing Lighting incorporated within the pedestrian pathways of the Grady Park project? | 42 | Yes - 20 No - 22 |
| #7: Would you be interested in seeing a Memorial incorporated into the Grady Park project? | 41 | Yes - 15 No - 26 |
| #8: Would you be interested in seeing Benches incorporated into the Grady Park project? | 42 | Yes - 28 No - 14 |
| #9: Would you be interested in seeing a Bike Lane incorporated into the Grady Park project along Old Rt. 213? | 42 | Yes - 28 No - 14 |
| #10: Would you be interested in seeing a Gazebo incorporated into the Grady Park project? | 42 | Yes - 13 No - 29 |
| #11: Are you in general support of the efforts to improve the Grady Park area? | 41 | Yes - 27 No - 14 |
| #12: Please leave any additional comments in the area below. Thank you! | 21 | |

EXHIBIT D.

Preliminary Permitting Research

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

| Part 1 – Project and Sponsor Information | | | |
|---|--|-----------------|-----------|
| Name of Action or Project: | | | |
| Project Location (describe, and attach a location map): | | | |
| Brief Description of Proposed Action: | | | |
| Name of Applicant or Sponsor: | | Telephone: | |
| | | E-Mail: | |
| Address: | | | |
| City/PO: | | State: | Zip Code: |
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? | | | |
| If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | | | |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? | | | |
| If Yes, list agency(s) name and permit or approval: | | | |
| 3. a. Total acreage of the site of the proposed action? _____ acres b. Total acreage to be physically disturbed? _____ acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres | | | |
| 4. Check all land uses that occur on, are adjoining or near the proposed action: | | | |
| 5. Urban Rural (non-agriculture) Industrial Commercial Residential (suburban) | | | |
| <input type="checkbox"/> Forest | | Agriculture | |
| | | Aquatic | |
| <input type="checkbox"/> Parkland | | Other(Specify): | |

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| 5. Is the proposed action, | NO | YES | N/A |
| a. A permitted use under the zoning regulations? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Consistent with the adopted comprehensive plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? | NO | YES | |
| If Yes, identify: _____ | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| b. Are public transportation services available at or near the site of the proposed action? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| 9. Does the proposed action meet or exceed the state energy code requirements? | NO | YES | |
| If the proposed action will exceed requirements, describe design features and technologies: _____ _____ | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10. Will the proposed action connect to an existing public/private water supply? | NO | YES | |
| If No, describe method for providing potable water: _____ _____ _____ | <input type="checkbox"/> | <input type="checkbox"/> | |
| 11. Will the proposed action connect to existing wastewater utilities? | NO | YES | |
| If No, describe method for providing wastewater treatment: _____ _____ _____ | <input type="checkbox"/> | <input type="checkbox"/> | |
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | <input type="checkbox"/> | <input type="checkbox"/> | |
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | NO | YES | |
| <input type="checkbox"/> | <input type="checkbox"/> | | |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? | <input type="checkbox"/> | <input type="checkbox"/> | |
| If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____ | <input type="checkbox"/> | <input type="checkbox"/> | |

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

Shoreline Forest Agricultural/grasslands Early mid-successional
Wetland Urban Suburban

15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

16. Is the project site located in the 100-year flood plan?

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

17. Will the proposed action create storm water discharge, either from point or non-point sources?

If Yes,

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

a. Will storm water discharges flow to adjacent properties?

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?

If Yes, briefly describe:

| | |
|--|--|
| | |
| | |

18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?

If Yes, explain the purpose and size of the impoundment:

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?

If Yes, describe:

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?

If Yes, describe:

| | |
|--------------------------|--------------------------|
| NO | YES |
| <input type="checkbox"/> | <input type="checkbox"/> |

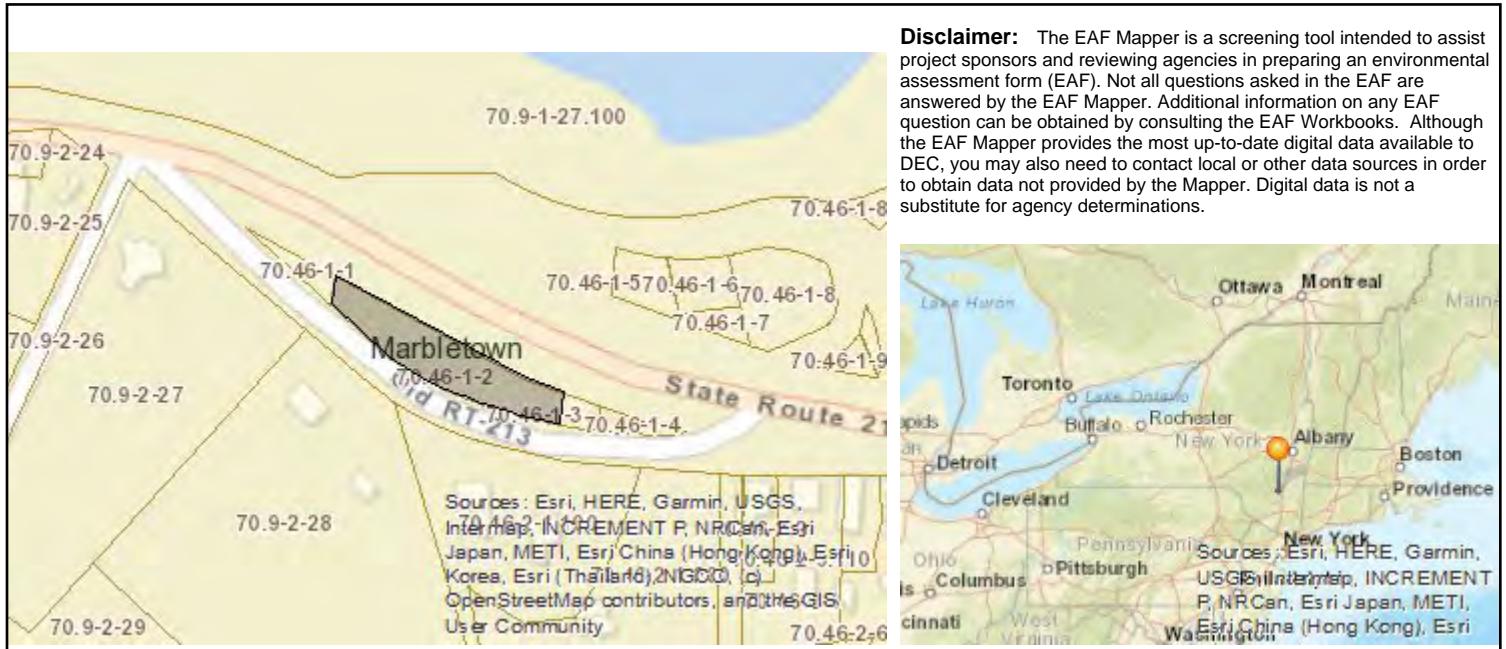
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: _____ Date: _____

Signature: _____ Title: _____

EAF Mapper Summary Report

Wednesday, November 06, 2019 4:53 PM



| | |
|---|---|
| Part 1 / Question 7 [Critical Environmental Area] | No |
| Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites] | Yes |
| Part 1 / Question 12b [Archeological Sites] | Yes |
| Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies] | Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. |
| Part 1 / Question 15 [Threatened or Endangered Animal] | Yes |
| Part 1 / Question 15 [Threatened or Endangered Animal - Name] | Bald Eagle, Indiana Bat, Northern Long-eared Bat |
| Part 1 / Question 16 [100 Year Flood Plain] | No |
| Part 1 / Question 20 [Remediation Site] | No |



United States
Department of
Agriculture



Natural
Resources
Conservation
Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Ulster County, New York



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units).

Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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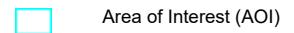
Soil Map



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MAP LEGEND

Area of Interest (AOI)



Area of Interest (AOI)

Soils



Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip

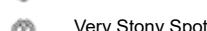


Sodic Spot

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot

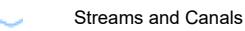


Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ulster County, New York

Survey Area Data: Version 18, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 7, 2013—Feb 26, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| HwD | Hudson and Schoharie soils, 15 to 25 percent slopes | 0.0 | 0.9% |
| WsB | Williamson silt loam, 3 to 8 percent slopes | 2.4 | 99.1% |
| Totals for Area of Interest | | 2.4 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Ulster County, New York

HwD—Hudson and Schoharie soils, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2xggt

Elevation: 0 to 1,660 feet

Mean annual precipitation: 31 to 57 inches

Mean annual air temperature: 41 to 50 degrees F

Frost-free period: 100 to 190 days

Farmland classification: Not prime farmland

Map Unit Composition

Hudson and similar soils: 40 percent

Schoharie and similar soils: 35 percent

Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hudson

Setting

Landform: Lake terraces

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Clayey and silty glaciolacustrine deposits

Typical profile

H1 - 0 to 5 inches: silty clay loam

H2 - 5 to 10 inches: silty clay loam

H3 - 10 to 36 inches: silty clay

H4 - 36 to 60 inches: clay

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 18 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 20 percent

Available water storage in profile: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C/D

Hydric soil rating: No

Description of Schoharie

Setting

Landform: Lake terraces
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Red clayey glaciolacustrine deposits derived from calcareous shale

Typical profile

Ap - 0 to 8 inches: silty clay loam
E - 8 to 11 inches: silt loam
Bt/E - 11 to 18 inches: silty clay
Bt - 18 to 33 inches: clay
C1 - 33 to 52 inches: silty clay
C2 - 52 to 79 inches: silty clay

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 25 percent
Available water storage in profile: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Cazenovia

Percent of map unit: 7 percent
Landform: Reworked lake plains, till plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Down-slope shape: Concave
Across-slope shape: Convex
Hydric soil rating: No

Odeessa

Percent of map unit: 7 percent
Landform: Lake terraces
Landform position (two-dimensional): Foothslope
Landform position (three-dimensional): Riser
Down-slope shape: Concave
Across-slope shape: Linear

Hydric soil rating: No

Cayuga

Percent of map unit: 6 percent

Landform: Lake plains, till plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest, tread

Down-slope shape: Concave

Across-slope shape: Convex

Hydric soil rating: No

Collamer

Percent of map unit: 5 percent

Landform: Lake plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Concave

Across-slope shape: Convex

Hydric soil rating: No

WsB—Williamson silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9xkm

Mean annual precipitation: 41 to 62 inches

Mean annual air temperature: 41 to 50 degrees F

Frost-free period: 110 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Williamson and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Williamson

Setting

Landform: Lake plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Tread

Down-slope shape: Concave

Across-slope shape: Convex

Parent material: Glaciolacustrine or eolian deposits with a high content of silt and very fine sand

Typical profile

H1 - 0 to 8 inches: silt loam

H2 - 8 to 18 inches: silt loam

H3 - 18 to 42 inches: very fine sandy loam

H4 - 42 to 52 inches: stratified silt loam to silty clay loam

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 15 to 24 inches to fragipan

Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 14 to 23 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: D

Hydric soil rating: No

Minor Components

Hudson

Percent of map unit: 5 percent

Hydric soil rating: No

Riverhead

Percent of map unit: 5 percent

Hydric soil rating: No

Schoharie

Percent of map unit: 5 percent

Hydric soil rating: No

Unadilla

Percent of map unit: 5 percent

Hydric soil rating: No

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National Wetlands Inventory

surface waters and wetlands

[ABOUT](#)[GET DATA](#)[PRINT](#)[FIND LOCATION](#)[BASEMAPS >](#)[MAP LAYERS >](#) Wetlands Riparian Riparian Mapping Areas Data Source Source Type Image Scale Image Year Areas of Interest FWS Managed Lands Historic Wetland Data

+ ... Measure

-

1:4,514
41.829 | -74.137

U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov | Esri, HERE, Garmin, iPC | New York State...

POWERED BY

esri



Environmental Resource Mapper

Base Map: Topographical Using this map

Search

Tools

Layers and Legend

All Layers

Unique Geological Features

Waterbody Classifications for Rivers/Streams

Waterbody Classifications for Lakes

State Regulated Freshwater Wetlands

State Regulated Wetland Checkzone

Significant Natural Communities

Natural Communities Near This Location

Rare Plants or Animals

Other Wetland Layers

Reference Layers

Tell Me More...

Need A Permit?

Contacts

Map controls: +, -, Home, Search.

Map features: Land parcels (yellow), roads (black lines), place names (e.g., Lucas Rd, Brine Rd, Fairview Ln, Buceville Rd, Kennedy Ln, State Route 213, Quaker Rd, Shag Hill Rd, Swamp Hill Rd, Strawberry Bank Rd), and a cyan boundary line.

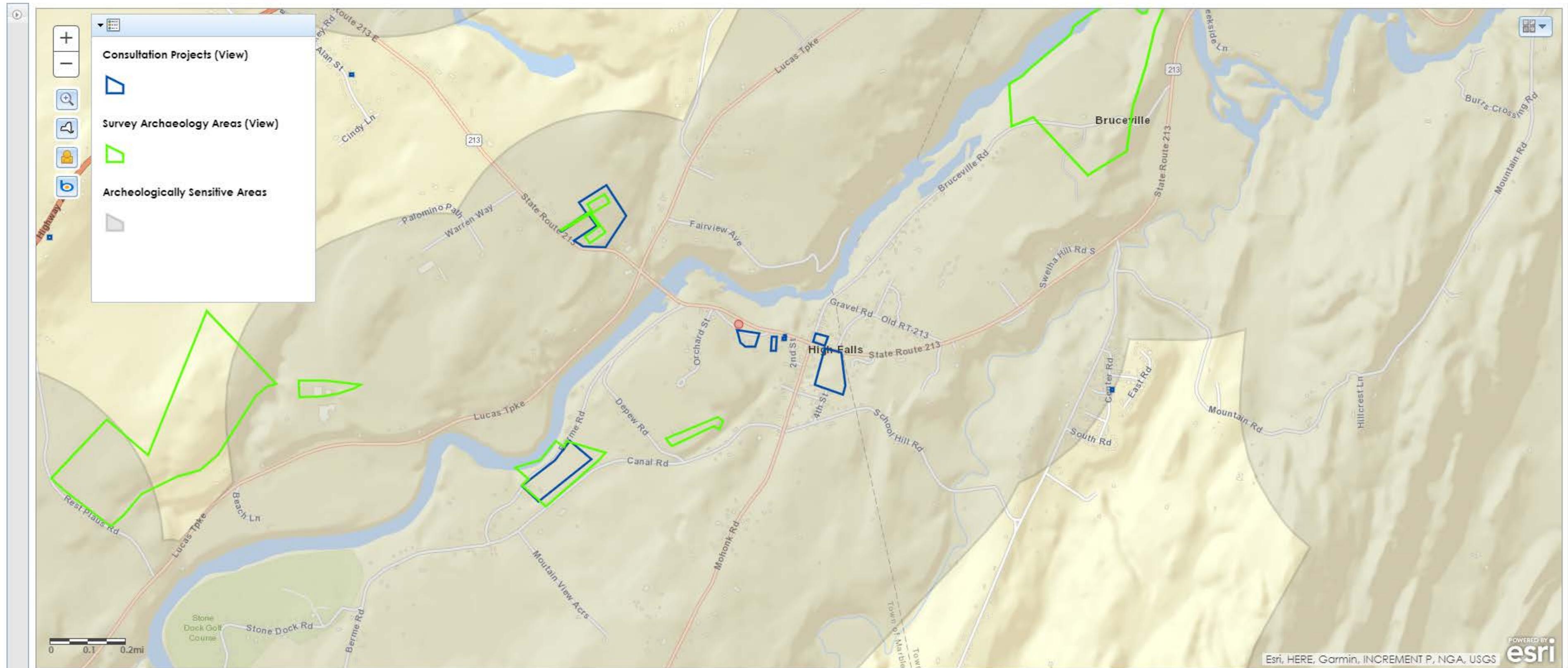
A cyan boundary line outlines a specific area, likely indicating a checkzone or a location of interest.

A callout box titled "Rare Plants and Rare Animals (1 of 2)" contains the following text:

This location is in the vicinity of Animals Listed as Endangered or Threatened - Contact NYSDEC Regional Office

[Zoom to](#)

Coordinates: -74.126, 41.825



National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

| | |
|--|--|
| | Without Base Flood Elevation (BFE) Zone A, V, A99 |
| | With BFE or Depth Zone AE, AO, AH, VE, AR |

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

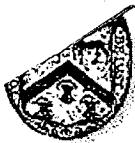
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/6/2019 at 4:41:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



EXHIBIT E.

Documentation of In-Kind/ Equity/Sponsor Contribution



VOUCHER
Town of Marbletown

Po Box 217 Stone Ridge, NY 12484
845-687-7500

Claimant's Name & Address

Poison Ivy Patrol
Specialty Landscaping Inc.
POB 122 High Falls, NY 12440

| OFFICE USE ONLY | Voucher Number | 622 |
|----------------------------|-------------------|-----------|
| Date Voucher Received | | |
| FUND - APPROPRIATION | AMOUNT | |
| 7110.4 | \$ 11,000.00 | |
| Entered on Abstract Number | | 11,000.00 |

Detailed Invoices may be attached and Total entered on this Voucher. Certification below MUST BE SIGNED

CLAIMANT'S CERTIFICATION

I, John Messerschmidt certify that the above account in the amount of \$ 11,000.00 is true and correct, that the items, services and disbursements charged were rendered to or for the municipalities on the dates stated; that no part has been paid for or satisfied; that the taxes, from which the municipalities are exempt, are not included; and that the amount claimed is actually due.

10.10.2019

Date

Signature

Owner

Title

(Space Below for Municipal Use)

11-2-3
I OWN OR MANAGE I OWN
GENERAL FUND

ACCOUNT NUMBER

P.O. ID

NET AMOUNT

10-INV#

V #622 INV#2315-179/GRADY PARK \$ 11,000.00

CHECK DATE

POISON IVY PATROL

10/15/2019 CK #: 17923 \$ 11,000.00
10/17/19 14:31

TOWN OF MARBLETOWN

GENERAL FUND

PO BOX 217

STONE RIDGE, NY 12484

DOCUMENT INCLUDES: VISIBLE FIBERS, CHEMICAL REACTIVE PROPERTIES AND FEATURES A FULL HOLOGRAM

17923



M&T Bank

Manufacturers Trust Company

10-4220

Eleven Thousand And 00/100 Dollars

CHECK DATE

CONTROL NO.

AMOUNT

10/15/2019

17923 \$*****11,000.00

POISON IVY PATROL
SPECIALTY LANDSCAPING INC
POB 122
HIGH FALLS, NY 12440
W/ Shield

PAY TO
THE
ORDER
OF

NP

HEAT SENSITIVE RECIPIENT SHAPED WITH HEADS

W/

SHIELD

W/

Date 10/8/2019

Invoice

Inv#

2315-179

Bill To Address:

Rich Parete Town of Marbletown
PO Box 217
Stone Ridge NY 12484

'Rich Parete' <supervisor@marbletown.net>

Service Address:

Rich Parete Town of Marbletown
113 Main st
High Falls NY 12440
'Rich Parete' <supervisor@marbletown.net>

Description of Work

Deposit for Phase 1 woodland restoration of Grady Park in High Falls.

\$12,000 donation of labor will be made upon completion.

| Date | Labor | # Hrs | Rate | Due |
|---------|----------|-------|---------|-------------|
| 9/13/19 | Lump sum | 1.00 | \$11000 | \$11,000.00 |

Page 1 of 1 Paid Amt Total Tax Included \$11,000.00

Please make checks payable to: **Poison Ivy Patrol**

Mail to: **Poison Ivy Patrol**
Specialty Landscaping Inc.
PO Box 122
High Falls, NY 12440

Thank you for your business!
www.facebook/PIPATROL www.Poison-ivy-Patrol.com



Poison Ivy
Patrol
Specialty Landscaping

August 9, 2019

Mr. Rich Parete
Supervisor
Town of Marbletown
1925 Lucas Avenue
Cottekill, NY 12419

supervisor@marbletown.net

**RE: Grady Park Project
Boundary (R.O.W.), Topographic & Utility Survey Proposal**

Dear Mr. Parete,

GPI thanks you for the opportunity to present our proposal for professional survey services associated with the Grady Park Project. For this work, GPI has coordinated with Ausfeld & Waldruff Land Surveyors, LLP (AWLS) for the performance of the work.

Scope of Services

Boundary (R.O.W.), Topographic and Utility Survey (TASKS 1 and 2):

AWLS will perform a boundary (R.O.W.), topographic and utility survey for the areas outlined in Figure 1 which is made part of this proposal. AWLS will perform a topographic survey, based upon NAVD 88 or existing site datum, and will depict all physical features but not limited to structures (buildings, sheds), curbs, sidewalks, utility structures, poles, parking stripes. Also shown will be building corners/edges, utilities, inverts, hardscape improvements, etc.. Underground utilities will be shown based upon physical location and existing mapping of record. Contours will be shown at 1-foot interval.

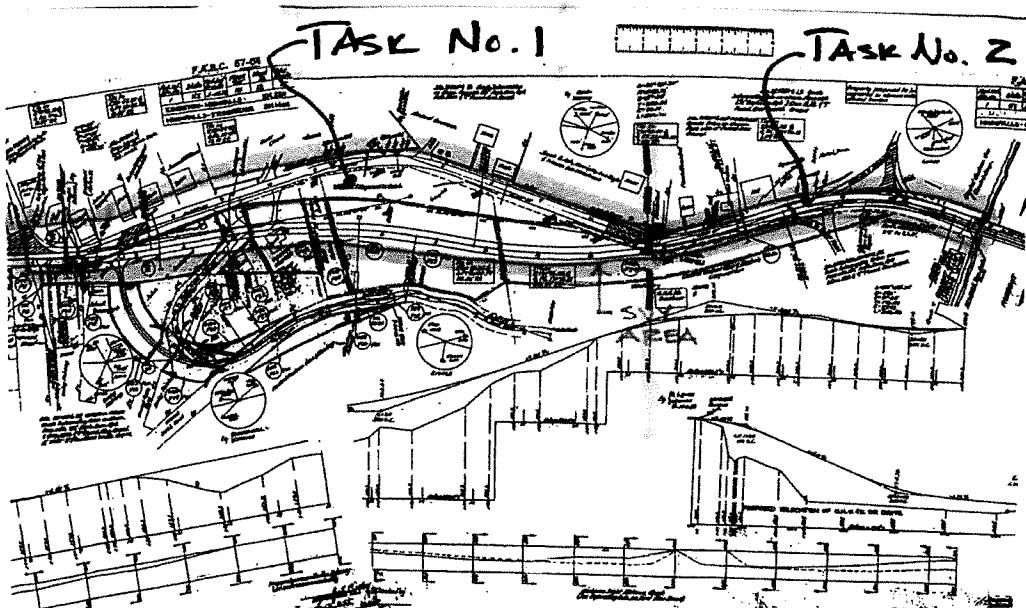


Figure 1

SCHEDULE:

Field work will commence within two-three weeks from formal authorization to AWLS to proceed.

FEE:

The lump sum fee for the above referenced scope of services is:

TASK 1: \$3,500.

TASK 2: \$1,900.

TOTAL: \$5,400

This quote expires 60 days from the date of this proposal.

Agreement

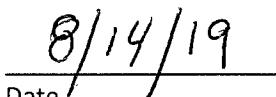
As initial authorization to proceed, please sign and return a copy of this letter agreement. As formal authorization to proceed, please sign and return a copy of our attached standard agreement

Please feel free to contact me at (518) 898-9546 if you have any questions. GPI looks forward to working with you on this project.

Authorization:



Mr. Rich Parete



8/14/19

Date

Sincerely,

Craig Tripp, RLA, LEED®AP
Senior Landscape Architect | Senior Project Manager

January 17, 2020

Mr. Rich Parete
Supervisor
Town of Marbletown
1925 Lucas Avenue
Cottekill, NY 12419

supervisor@marbletown.net

**RE: Grady Park Project
Site-Civil Engineering Services Proposal**

Dear Mr. Parete,

GPI thanks you for the opportunity to present our proposal for professional site-civil engineering services associated with the Grady Park Project. Having recently completed the boundary, topographic, and utility survey for the park and adjacent areas, this proposal is for design, permitting, grant application assistance, bidding, and construction phase services.

Project Understandings

The scope of services outlined herein are based upon the following:

- The advancement of the project design will be based upon the previously developed concept plan (see Figure 1) in concert with the recently completed site boundary, topographic, and utility survey.



Figure 1

- The primary project site is on land situated between Old Route 213 and NYS Route 213. Peripheral areas include the parking lot in front of the post office and potential cross walk locations at the eastern and western ends of the park property to cross NYS Rt 213 and connect to the existing Conservancy Creek Walk.
- A substantial portion of the conceptual park improvements are located within the NYS Department of Transportation (NYSDOT) Right-of-Way (ROW) for NYS Rt 213.
- Initial conversations between the town and the NYSDOT have indicated that the project is well received and that the NYSDOT will work with the town to allow improvements within portions of the ROW.
- In addition to the NYSDOT ROW work, some peripheral improvements may require coordination with adjacent landowners – particularly to the east in the area in front of the post office, business facilities, and the future Canal Museum. It is understood that the town will coordinate any agreements and/or negotiations with adjoining landowners (including DOT) as related to the proposed construction activities/improvements, access needs, and both construction phase and long-term maintenance requirements and responsibilities.
- It is anticipated that the Town Board will act as the lead agency for State Environmental Quality Review Act (SEQRA) purposes.
- As the town is the applicant, no site plan review and associated approvals will be required.
- Due to the historic canal remains on the site, it is anticipated that a Phase 1A and 1B Cultural Resources investigation will be required for the project. As such, GPI has coordinated with Hudson Valley Cultural Resource Consultants, Ltd. for the performance of this work.
- Anticipated coordination and/or agency approvals include:
 - New York State Office of Parks Recreation & Historic Preservation (OPRHP)
 - NYSDOT for:
 - Design coordination for allowable improvements within the DOT ROW
 - Highway Work Permit
 - Crosswalks locations and associated signage
 - New York State Energy Research and Development Authority (NYSERDA) for seeking project funding through the Consolidated Funding Application (CFA) process
 - Central Hudson Gas & Electric for:
 - Power for lighting and restroom facilities
 - Potential relocation of existing power pole(s) at western end of site

Scope of Services

The following represents the tasks that are necessary to accomplish your development objectives.

PHASE I: PROJECT INITIATION / PROJECT MANAGEMENT

In this phase of work, GPI will prepare documents, attend preliminary meetings, and initiate investigatory procedures in order to verify the processes and submission requirements related to seeking the necessary approvals and input from the various project stake holders.

Task 1 – Concept Design Plan and Preliminary Construction Estimate

Utilizing the preliminary schematic design plan previously prepared for the anticipated site improvements, GPI will overlay the design onto the recently completed site survey. The design will then be vetted against actual field conditions and adjusted as necessary to account for site opportunities and constraints such as topography, viewsheds, utility locations and existing vegetation. The Concept Design plan will be reviewed with the Client and modified as needed to ensure the necessary program elements are captured and located in a manner that best serve their needs. This plan will become the basis of design for subsequent Phase I tasks. Under this task, GPI will also prepare a preliminary construction cost estimate for the project.

Task 2 – SEQRA Initiation

Based upon our understanding of the project, we believe that the proposed action will be classified as an Unlisted Action. We also anticipate that the SEQRA process can be satisfied through submission of a Short Environmental Assessment Form (SEAF) and, therefore, a formal DEIS/FEIS process is not anticipated or included at this time. Under this task, GPI will prepare a SEAF for the Client's signature and use in their SEQRA process. The SEAF document links to the State's database files covering Wildlife Resources and Archaeological & Historic Resources. If a review of the on-line resources indicates a positive hit on the project site, GPI will make formal inquiries to the NYSPHRHP in order to determine the appropriate procedures that should be used to evaluate the project's effect on historic and/or cultural resources. Based on the known presence of the canal/lock remains on the site, it is expected that a PHASE IA and IB Cultural Resources investigation will be requested by the State Historic Preservation Office (SHPO). As such, an alternative task (Task 3 below) is being provided within this proposal for an archaeological consultant to provide these services if they become necessary.

Task 3 - Cultural Resources Investigations – Phase 1A and 1B

The cultural resources investigation process starts with a Phase I investigation. The purpose of this first phase is to determine the presence or absence of cultural resources within the project's potential impact area. The Phase I investigation process is further broken down into two-steps known as Phase 1A and Phase 1B Cultural Resource Investigations.

GPI has coordinated with Hudson Valley Cultural Resource Consultants, Ltd. (a NYS certified Women Owned Business Enterprise (WBE)) for the performance of this work. A copy of their proposal is attached to and hereby made part of this proposal. The costs for the performance of the work are included in the fee schedule at the end of this proposal as a direct pass thru.

The scope and fees for archaeological services are for the performance of a Phase 1A and 1B cultural resource investigation and assumes that, if necessary, the town will provide a backhoe and operator for trench tests. If further investigations are requested/required, a modified proposal will be provided.

Task 4 – Consolidated Finding Application (CFA) Assistance

Under this task, GPI will assist the Client with agency coordination and the preparation and submission materials to seek financial support for the project through the NYS Consolidated Funding Application (CFA) process. This includes, but is not limited to, the following items (some of which may be prepared under other tasks herein):

- Applications and forms,
- Plans and figures,
- Cost Estimates,
- Site Photos,
- Survey Map.

Task 5 – New York State Department of Transportation (NYSDOT) Coordination

As needed, GPI will attend meetings and participate in phone calls relevant to the project for purposes of assisting the Client with coordinating the design and review process with the NYSDOT. As the extent of NYSDOT coordination required cannot be quantified at this time, these services will be charged on an hourly basis for the staff utilized in accordance with GPI's Schedule of Fees included with this proposal. For purposes of this proposal, a budget of \$1,500 has been established.

Task 6 - Project Meetings/Coordination and Correspondence

As needed, GPI will attend meetings and participate in phone calls relevant to the project for purposes of coordinating the design with the Client. As the exact number of meetings and extent of coordination required cannot be quantified at this time, these services will be charged on an hourly basis for the staff utilized in accordance with GPI's Schedule of Fees included with this proposal. For purposes of this proposal, a budget of \$2,500 has been established.

Task 7 – General Consulting Services

The purpose of this task will be to allow GPI to provide services for minor additional work that is not specifically outlined within this proposal, if requested by the Client. The intent is to provide an avenue for the Client to easily authorize extra services for minor additional work efforts without the need for a formal technical services change order. Possible examples include items such as sketches, figures or renderings not already outlined within other tasks of this proposal or assistance with the preparation of forms/applications, etc. for aspects of the work that are not already detailed herein. No work will be performed and no time will be charged to this task without prior written authorization from the Client. Services for this task will be charged on an hourly basis for the staff utilized in accordance with GPI's Schedule of Fees included with this proposal. For purposes of this proposal, a budget of \$2,500 has been established. If no additional work is requested by the Client, this budget will not be utilized.

PHASE II: DESIGN DEVELOPMENT

Task 8 – Detailed Site Plans

Based on coordination with the various involved agencies and discussions with the Client, Detailed Site Plans will be prepared based on an advancement of the Concept Design Plan. The plans will utilize the recent site survey and will identify the proposed improvements for the site and will include:

a. Cover Page:

The Cover Page will provide the Project Name, Project Address, Applicant Information, Site Location Map, Zoning Map and an Index of Drawings.

b. Existing Conditions Plan:

The Existing Conditions Plan will utilize the recently completed boundary, topographic and utility survey.

c. Site Preparation Plan:

Based upon the existing conditions identified on the survey, the Site Preparation Plan will identify any site elements that are required to be removed, or otherwise modified to facilitate the construction of the proposed improvements.

d. Site Layout Plan:

The Layout Plan will show the proposed site improvements including on-street parking, pedestrian and motor vehicle circulation areas and associated paving, walks, striping and signage as well as park plazas, pedestrian gathering spaces, restroom facilities, and. Layout dimensions will be provided to demonstrate conformance with applicable local and State requirements.

e. Utility Plan:

The Utility Plan will identify on-site improvements for storm water conveyance systems and the locations of site light fixtures. Illumination levels will be shown for primary site lighting. The utility plan will also show proposed locations of on-site water, sewer, and electric services for the proposed restroom facility.

f. Grading and Erosion Control Plan:

The Grading and Erosion Control Plan will show proposed contours along with rim elevations of any new utility structures and spot elevations at critical control locations. To prevent soil erosion and sedimentation during construction, relevant measures will be identified on the plans. Measures will consider the NYS Standards and Specifications for Erosion and Sediment Control.

g. Landscape Plan:

The landscape plan will include stabilization of areas disturbed by grading as well as landscaping enhancements throughout the park and within peripheral parking and pedestrian areas.

h. Detailed Stormwater Management Plan(s):

Detailing for stormwater management practices will be developed in concert with the SWPPP analysis and report (Task 9) and included as part of the site plans.

i. Relevant Detail Sheets:

Details will be developed for related site elements including trenching and pipe bedding, pavement sections, sidewalk and landscaping details and other detailing required to identify site construction requirements.

Task 9 – Storm Water Pollution Prevention Plan & Report

If the overall land disturbance associated with the project exceeds one acre, a New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit GP-0-15-002 will be required. Accordingly, a Storm Water Pollution Prevention Plan (SWPPP) and report will be prepared in accordance the requirements of NYSDEC SPDES General Permit GP-0-15-002. Supplemental information required by the New York State Storm Water Management Design Manual will be included in the appendices and will include existing and proposed drainage conditions mapping, the Notice of Intent (NOI), a Notice of Termination (NOT), the Contractor Certification form, and system inspection and maintenance requirements. The SWPPP will be developed in accordance with NYSDEC's 5-day NOI process.

Task 10 - Construction Drawings and Project Manual

After reviewing with the Client and obtaining sign-off and authorization to proceed, the Detailed Site Plans (Task 8) will be expanded upon to incorporate the information required for assembling bidding and construction document packages. This includes the preparation of a front-end manual for items such as the Notice to Bidders, Bonding Requirements, and General Conditions. GPI will work with the Client to ensure that any town requirements, forms, and funding related contractor procurement items (if any) are incorporated into the documents. Specifications for site related work will be included as notes on the plans.

PHASE III: CONSTRUCTION PHASE SUPPORT

Task 11 - Bid Assistance and Shop Drawing Review

Under this task, GPI will review site related aspects of bids received for construction and will provide the Client with feedback and recommendations for awarding the bid. Note that it is anticipated that the town will solicit the bids for the project including posting of advertisements and that GPI will attend the bid opening and assist the town with the review/vetting of bids received including providing the town with a letter of recommendation for awarding the project.

After the construction contract has been awarded, GPI will review the contractor's submitted shop drawings for site related materials to ensure conformance with the contract drawings. Electronic versions of each submittal and shop drawing reviewed will be returned to the Client via email for distribution to the project team.

Task 12 - SWPPP Preconstruction Services

a. Site Log Book

GPI will prepare three (3) binders for maintenance of the site log book. The original binder will be maintained on-site as required by General Permit GP-0-15-002. The second binder will be provided to the Owner prior to the start of construction for their records and documentation of maintenance requirements and GPI will maintain the third binder for its records.

b. Pre-Construction Conference

GPI will prepare for and attend a pre-construction conference with the Client, District's Representative and General Contractor to discuss site construction issues, SWPPP responsibilities, and General Permit GP-0-15-002 documentation.

c. Pre-Construction Certification

GPI will conduct an initial assessment of the site prior to the commencement of construction. Upon determination that the appropriate erosion and sediment control measures described in the SWPPP and as required by General Permit GP-0-15-002 have been adequately installed or implemented, GPI will prepare the required Pre-Construction Certification. This certification will be filed in the site log book.

Task 13 - Construction Administration

The following scope of services will provide periodic construction phase review and administration necessary to confirm that the project is built in general accordance with the site development plans and specifications:

a. Pre-Construction Meeting:

GPI will prepare for and participate in a “pre-construction” meeting with the successful bidder to discuss project contract administration, schedule and reporting.

b. Periodic Construction Observation:

GPI will periodically review construction progress for site related elements to assess general conformity with the project plans and specifications. Full time inspection and certification is not included in this task. For the purposes of this proposal, construction for site related work is anticipated take place over a 16-week period. One site assessment per week (for the anticipated 16 weeks) is included within this task for periodic construction review. If the time frame extends beyond the 16-week estimate for site related construction activities or if more frequent progress reviews are required, a proposal for additional periodic construction observations will be provided for your consideration.

c. Construction Site Meetings: attend construction meetings when specifically requested by the Client. Note that these meetings would be coordinated with GPI presence on-site for Periodic Construction Observation services.

d. Request for Information/Clarification: review requests submitted by the Contractor in the form of RFI's and prepare coordinated responses.

Task 14 - Weekly SWPPP Assessments and Reports

Under this task GPI will conduct assessments of site construction activities in accordance with the NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit GP-0-15-002. The total fee associated with these services will depend on the number of weeks for the construction duration (including the removal of all temporary erosion and sediment control measures and final site stabilization). For purposes of this proposal, it is anticipated that site related construction activities and final stabilization will take place over the course of 16 weeks with a weekly rate of \$325.00 per visit. Note that the NYSDEC requires weekly site SWPPP assessments from the start of construction activities until achievement of final stabilization - even when no work is occurring on site. As such, if the site construction time frame extends beyond 16 weeks (including any potential non-active time), additional weekly site assessments will be required. Each additional weekly site assessment beyond the estimate 16-week duration of construction will be billed at the \$325.00 weekly rate.

GPI will conduct site assessments at an interval of at least once every seven calendar days. During each inspection, GPI will evaluate overall pollutant control system performance as well as particular details of individual system components. At a minimum, the following evaluations will be performed:

- a. Vehicle entry and exit locations for the site will be inspected for evidence of off-site sediment tracking.
- b. Sediment barriers will be inspected.
- c. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system.
- d. Disturbed areas will be inspected to confirm that temporary stabilization measures are performing accurately, that non-stabilized areas are limited to 5 acers or less and that final stabilization of restored areas has achieved the necessary vegetative cover as required by the NYSDEC Standards.
- e. All discharge points will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

Weekly Inspection reports will be completed. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report will identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify incidents of non-compliance with any recommendations for corrective action.

Task 15 - Notice of Termination of Permit Coverage

The Notice of Termination (NOT) requires the qualified inspector certify that “all post-construction stormwater management practices have been constructed in conformance with the SWPPP”. The NOT needs to be submitted once construction activities have been completed and the project site is considered stabilized.

Prior to filing the Notice of Termination (NOT) or the end of the permit term, GPI will perform a final site inspection. This site inspection is intended to verify that the site has undergone final stabilization using either vegetative or structural stabilization methods and that all temporary erosion and sediment control measures not needed for long-term erosion control have been removed.

Upon review of the completed contractor provided as-built plan(s), evaluation of the completed stormwater management facilities, and upon determination that the stormwater management facilities have been constructed in accordance with the SWPPP, GPI will certify the completed system.

GPI will prepare a draft of the Notice of Termination for the Owners signature and submission to the MS4 and/or NYSDEC as required by General Permit GP-0-15-002. The Owner and Contractor binders will be updated incorporating the Final Inspection Certification and the NOT. The Original Binder (which was maintained on-site during construction) will be submitted to the Owner for their records.

Task RE00 – Reimbursable Expenses

This scope of services includes only the cost for the preparation of the work as outlined above and does not include our direct expenses, such as mileage, overnight mailings, and photocopying and map reproductions. These direct costs will be billed under this task as incurred.

Services By Others or Not Currently Anticipated/Included

The following items are presently not included in work to be provided by GPI.

- Structural Design of retaining walls or other supporting structures/buildings.
- Geotechnical Investigations.
- Stormwater Investigations (percolation and deep test pits) – if these field tests become necessary, GPI will coordinate with the town for the fees and authorization to perform the work.
- Land acquisition and/or subdivision services.

Professional Services Fee Schedule

Invoices will be issued monthly for all services performed during that month and are payable upon receipt. Professional Services Budgets are estimates only. We will make our best effort to complete each of these tasks within the estimated amounts; however, it is possible that it will be necessary to exceed these amounts in order to complete the scope of services for each task. We will not exceed any estimated fee amounts without formal discussion with you about scope modification needs and written authorization from you to proceed.

Fee Summary

| Task No. | Task Description | Lump Sum Fee Estimate | Time & Materials Fee Estimate |
|--|---|---------------------------------|-------------------------------|
| PHASE I – PROJECT INITIATION / PROJECT MANAGEMENT | | | |
| 1 | Concept Design Plan and Preliminary Construction Estimate | \$3,750 | |
| 2 | SEQRA Initiation | \$500 | |
| *3a | Cultural Resources Investigation – Phase 1A | \$1,350 | |
| *3b | Cultural Resources Investigation – Phase 1B | \$1,966 | |
| 4 | Consolidated Funding Application (CFA) Assistance | \$8,750 | |
| 5 | NYSDOT Coordination | | \$1,500 |
| 6 | Project Meetings / Coordination and Correspondence | | \$2,500 |
| 7 | General Consulting Services | | \$2,500 |
| Total Phase I Fee | | \$22,816 | |
| PHASE II – DESIGN DEVELOPMENT | | | |
| 8 | Detailed Site Plans | \$18,750 | |
| **9 | Stormwater Pollution Prevention Plan & Report | \$7,500 | |
| 10 | Construction Drawings and Project Manual | \$9,500 | |
| Total Phase II Fee | | \$35,750 | |
| PHASE III – CONSTRUCTION PHASE SUPPORT | | | |
| 11 | Bid Phase Assistance and Shop Drawing Review | \$3,100 | |
| **12 | SWPPP Pre-Construction Services | \$950 | |
| 13 | Construction Administration | | \$15,750 |
| **14 | Weekly SWPPP Observations & Reports | | \$5,200 |
| **15 | Notice of Termination of Permit Coverage | \$250 | |
| Total Phase III Fee | | \$25,250 | |
| RE00 | Reimbursable Expenses | <i>To be billed as incurred</i> | |
| Total Estimated Cost | | \$83,816 | |

*Denotes archaeological investigation tasks that are included in the event that SHPO requests a Phase 1 cultural resource investigation during the SEQRA process.

**Denotes stormwater related tasks and fees that will only be applied if the advancement of the project design indicates that the total area of disturbance will exceed 1 acre.

Schedule

GPI is prepared to start on this work within one week of receipt of authorization to proceed.

Agreement

As initial authorization to proceed, please sign and return a copy of this letter agreement. As formal authorization to proceed, please sign and return a copy of our attached standard agreement

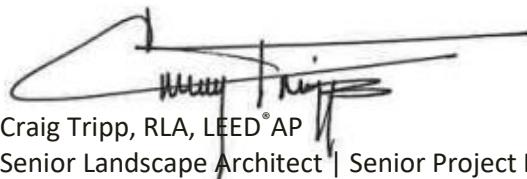
Please feel free to contact me at (518) 898-9546 if you have any questions. GPI looks forward to working with you on this project.

Authorization:

Mr. Rich Parete

Date

Sincerely,



Craig Tripp, RLA, LEED®AP
Senior Landscape Architect | Senior Project Manager



HUDSON VALLEY

Cultural Resource Consultants, Ltd.
3 Lyons Drive Poughkeepsie, NY 12601
914-456-3698

January 15, 2020

Craig Tripp
GPI
80 Wolf Road, Suite 300
Albany, NY, 12205

Re: Grady Park Improvements Project
Phase 1A Literature Review and Sensitivity Assessment & Phase 1B
Archaeological Field Reconnaissance Survey
Old Route 213
Marbletown, Ulster County, New York

Dear Mr. Tripp,

Thank you for the opportunity to prepare a proposal for the Phase 1A Literature Review and Sensitivity Assessment & Phase 1B Archaeological Field Reconnaissance Survey for the proposed Grady Park Improvements Project located on the northern side of Old Route 213 in the hamlet of High Falls, Town of Marbletown, Ulster County, New York. The Area of Potential Effect for this project is considered to be \pm 1.87 acres located between Old Route 213 and Route 213. The Phase 1B archaeological testing will be limited to the location of ground disturbing impacts, which is estimated to be no more than 0.95 acres. This area is located to the northwest of the former Lock 17, located within the parcel.

COMPANY BACKGROUND

Hudson Valley Cultural Resource Consultants (HVCRC) is a fully qualified Cultural Resource Management firm located in the Hudson River Valley in New York State. The archaeologists with HVCRC have a combined experience of more than thirty years completing cultural resource surveys in the northeastern United States. HVCRC has guided engineering, environmental and planning firms as well as local utility, government, private and not-for-profit clients through all phases of the cultural resource management process. HVCRC is a New York State Certified Women's Owned Business Enterprise (WBE).

HVCRC has completed more than fifty cultural resource surveys within the Hudson Valley, with more than one hundred completed within New York State. HVCRC's Principal Investigator is a board member with the New York State Archaeological Council, a Registered Professional Archaeologist, and has been approved by State Historic Preservation offices to complete surveys within the northeastern United States. All HVCRC archaeologists meet the standards set forth by the Secretary of the Interior.

PHASE 1A LITERATURE SEARCH AND SENSITIVITY ASSESSMENT

The Phase 1A Literature Search and Sensitivity Assessment will assess the overall sensitivity of the site based on environmental factors and whether portions of the site have been disturbed, assess the level of that disturbance and determine whether prehistoric or historic sites have been identified in the vicinity of the project area. The Phase 1A will include a site visit to photograph the existing conditions which will include any existing structures within the project area. Research will be undertaken to determine former land use, and a review of the

archaeological site files housed at New York State's Office of Parks, Recreation and Historic Preservation will be completed. Cartographic materials available at the Library of Congress or the New York State Archives will be reviewed to determine if any historic structures (Map Documented Structures) were located within the property boundaries.

The final Phase 1A report will include the scope of the proposed undertaking (if known), a discussion of the environmental conditions on the property, a prehistoric sensitivity assessment and an assessment of any historic properties with photo-documentation of the existing conditions. The Phase 1A will also evaluate any impacts to the High Falls National Register District.

PHASE 1B ARCHAEOLOGICAL FIELD RECONNAISSANCE SURVEY

A review of the information available on the OPRHP CRIS system indicates that there are precontact and historic sites located within a one mile radius of the project area.

In terms of testing strategy, we propose to hand excavate a series of shovel tests situated at 50 foot intervals across the level well drained and previously undisturbed areas of the ± 1.87 acres APE. It is expected that this will take one field day. Slopes in excess of 12% will be excluded from testing, as will wet areas, stream corridors and areas of significant ground disturbance, should they exist within the project area. In addition, to comply with NYS OPRHP standards, the soils cannot be frozen in excess of three inches below surface at the time of field investigations. The determination of the areas to be tested is based on the sensitivity model developed by the Office of Parks, Recreation and Historic Preservation (OPRHP). The perimeter of Map Documented Structures will be tested at a 10' interval, as will a 25' envelope around each structure. To begin field excavations we will require an existing conditions map at a scale of 1"=100' or 1"=50', showing existing features (such as stone walls or fences) as well as areas in excess of 12% slope. This existing conditions map can be provided electronically as a PDF or DWG file.

Recovered cultural material (if any) will be taken to the laboratory, where it will be washed, re-bagged according to New York State Museum protocol, identified, and recorded in a standardized catalog. Analysis of the material in the laboratory will provide dates for the collection based on the typology of precontact lithic or ceramic materials and/or a general assessment of the dates for any historic materials (including ceramics and glass). The cost estimate for the processing of the artifacts is based on the recovery of no more than 50 artifacts. If significantly more artifacts are recovered, there will be an additional charge for laboratory processing at the rate of \$50.00 per hour. These expenses, should they arise, will be discussed with the client before the work begins.

PRODUCTION AND SUBMISSION OF FINAL PHASE 1B REPORT

The final report will consist of the results of the field investigation, including a field reconnaissance map, the inventory of materials recovered from the site and a written description of the work completed by the field team and photographic documentation. If cultural features are identified, additional drawings, catalogs or other maps may be included. An AUTOCAD version of the existing conditions map is required for the drafting of the Field Reconnaissance Map that will be included in the final report.

It should be noted that if surface conditions exist within the proposed APE that prevent the field team from accessing the areas needing testing (i.e. dense brush), work may be suspended or postponed until these areas can be cleared by the client prior to the commencement of work.

PHASE 1A/1B WORK SCHEDULE AND COST

The total cost for the Phase 1A Literature Review and Sensitivity Assessment & Phase 1B Archaeological Field Reconnaissance Survey for the Grady Park Improvements Project is \$3316.00. A breakdown of costs for the Phase 1A/1B is included as the final page of this document. If you wish us to proceed with the Phase 1A/1B work, please sign the authorization and return it to our office. Work on the Phase 1A/1B report will commence within five days of receipt of the signed agreement. Field work will be scheduled within 10 days of the receipt of the authorization, weather permitting. It is expected that the field work for the Phase 1B will take three field days. The final invoice will be presented upon submission of the draft version of the report to you. At that time, we will work with you to address any comments or changes you may have to the final document prior to its submission to the reviewing agency.

HVCRC will work with the project sponsor to submit the report to OPRHP through their Cultural Resource Information System (CRIS). NYS OPRHP is currently recommending that all reports for Cultural Resource Surveys be submitted into their GIS based system (CRIS) by the consultant who completed the survey. All involved agencies for the project must be identified in the project submission in CRIS. The cost of this submission is included in this proposal.

ADDITIONAL EXPENSES

Current OPRHP standards require that eight additional shovel tests must be excavated at close intervals around each culturally positive shovel test. Since we cannot know in advance whether cultural material will be identified, and whether additional shovel testing will be required, these additional shovel tests are not included in the cost estimate. Should confirmation tests be necessary they will be billed additionally at \$35.00 per test. Any additional costs, should they be needed, will be billed at the completion of field work.

In addition, the cost estimate does not include any expenses related to the recovery, disposition or analysis of Human Remains, should they be identified on the site. While such a find is extremely unlikely, all costs related to the recovery of human remains would represent an additional phase of work. Should Hudson Valley CRC be required to represent the client at planning board meetings, the New York State Office of Parks, Recreation and Historic Preservation (OPRHP), or other project related consultations, hours will be billed separately at \$95.00 per hour for meeting and travel time.

Sincerely,

Beth Selig, President
Hudson Valley Cultural Resource Consultants

HVCRC has a fully staffed office open M-F 8:00 AM-4:30 PM

HVCRC is a fully insured company:

General Business and Professional Liability Insurance

Workman's Compensation and Disability

HVCRC is a Certified Women's Owned Business Enterprise (WBE)

HVCRC Principal is a member of the Register of Professional Archaeologists
& the New York State Archaeological Council

COST SCOPE: Grady Park Improvements Project

| TASK | DETAILS | COST |
|--|---------|-------------------|
| Phase 1A Literature Review & Sensitivity Assessment | | |
| NY SHPO Site File Search | | \$310.00 |
| Site Visit | | \$225.00 |
| Cartographic & Historic Research | | \$385.00 |
| Final Phase 1A report | | \$430.00 |
| Total For Phase 1A | | \$1,350.00 |
| Phase 1B Archaeological Field Reconnaissance Survey | | |
| Archaeologists (PI, Crew Chief & Field Techs) | 1 day | \$1,336.00 |
| Data Entry & Laboratory work | | \$125.00 |
| Map Production | | \$190.00 |
| Final Report & CRIS submission | | \$315.00 |
| Total for Phase 1B | | \$1,966.00 |
| Contract Total | | |
| | | |

LEASE AGREEMENT

LEASE AGREEMENT made and entered into on the _____ day of _____, 2019 by and between D & H CANAL HISTORICAL SOCIETY (“DHCHS”), a New York Education Corporation with a business address of P.O. Box 23, High Falls, New York 12440, as Landlord, and the TOWN OF MARBLETOWN (the “Town”), a New York Municipal Corporation with offices at 1925 Lucas Turnpike, Cottekill, New York 12419, as Tenant.

W I T N E S S E T H :

WHEREAS, DHCHS owns four adjacent parcels of unimproved real property situate at 1335 State Route 213, High Falls, Ulster County, New York, informally known as “Grady Park” (S/B/L: 70.46-1-1; 70.46-1-2; 70.46-1-3 and 70.46-1-4) (the “Leased Premises”); and

WHEREAS the DHCHS protects certain artifacts of the Delaware & Hudson Canal (the “Canal”) located on the Leased Premises and holds them available for viewing by scholars and members of the public interested in the Canal, conducts a flea market on the Leased Premises which provides income which helps it perform its charitable mission, holds events on the Leased Premises which advance its charitable mission, and also maintains a park open to the public, all of which activities it wishes to continue during the term hereof, but consistent with the uses for which the Town wishes to enter into this Lease; and

WHEREAS, the Leased Premises are situate within the municipal boundaries of the Town; and

WHEREAS, in recent years the Leased Premises have been used in a manner more consistent with the general municipal objectives and goals of the Town in promoting tourism, providing recreational benefits, staging local events, etc.; and

WHEREAS, DHCHS and the Town desire to enter into a lease of the Leased Premises upon the terms and conditions set forth herein.

NOW, THEREFORE, for and in consideration of the covenants and obligations contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto hereby agree as follows:

1. Lease; Name. DHCHS hereby leases the Leased Premises to the Town and the Town hereby accepts the lease of the Leased Premises from DHCHS. The Leased Premises shall be known as the "Grady Town Green".

2. DHCHS Approval Contingencies. This Lease shall be explicitly made contingent upon DHCHS obtaining any and all approvals required, if any, pursuant to its Bylaws, the Not-For-Profit Corporations Law, the Education Law and/or any other statutes, rules, regulations or otherwise required by law. DHCHS shall diligently seek any and all required approvals. In the event any required approval is not obtained, this Lease shall be cancelled and both parties shall have no further obligation to the other by reason of this Lease.

3. No Deed Restrictions. DHCHS represents and warrants to the Town that there are no deed restrictions affecting the Leased Premises which would prohibit it from entering into this Lease or which would prohibit the Town from using the Lease Premises in the manner set forth herein.

4. Town Approval Contingencies. This Lease shall be explicitly made contingent upon the Town obtaining any and all approvals required pursuant to the Town Law, the General Municipal Law and/or any other statutes, rules, regulations or otherwise required by law. The Town shall diligently seek any and all required approvals. In the event any required approval is not obtained, this Lease shall be cancelled and both parties shall have no further obligation to the
(Rev. 7/15/2019)

other by reason of this Lease. The parties acknowledge and agree that this Lease must be approved by resolution adopted by the Town's Town Board and its approval will not be effective until thirty (30) days after such resolution is duly adopted. Further, such resolution is subject to a permissive referendum pursuant to Town Law § 91.

5. Term. This lease shall commence on the later of; (i) both parties receiving all approvals necessary to enter into this Agreement and to make the terms hereof binding obligations on the respective parties; or (ii) September 1, 2019 (the "Commencement Date") and shall expire on the ninety-ninth (99th) anniversary of the Commencement Date (the "Term").

6. Termination. This Lease shall terminate upon the earliest occurrence of the following:

- a. The expiration of the Term;
- b. The Town no longer being separate and distinct municipal entity;
- c. The dissolution of DHCHS; or
- d. One year after the Town gives written notice of termination.

7. Rent. The rent for the Term shall be \$25,098.00 payable as follows:

- i. \$25,000.00 shall be due and payable within thirty (30) days after the Commencement Date; and
- ii. \$1.00 shall be due and payable on each anniversary of the Commencement Date.

In the event that this Lease is terminated at any time before the expiration of the Term, no portion of the rent shall be refundable.

8. Use. The Leased Premises are to be used for passive recreational and community purposes only consistent with the manner in which the premises are currently used. Commercial purposes shall be prohibited. The Leased Premises are to remain substantially unimproved but flag poles, memorial plaques, rest room facilities, an equipment shed, gazebo, band stand and similar

structures shall be allowed should the Town elect to construct/install same. Any such structures shall be constructed in a manner consistent with the character and nature of the immediate area.

9. Retained Use. DHCHS shall retain the right to use parcels SBL 70.46-1-3 and SBL 70.46-1-4 to conduct temporary small-scale uses such as flea markets, farm stands, and ceremonial and public events relating to DHCHS' mission etc. which shall be permitted to operate no more than two (2) days per week. DHCHS shall retain all income derived from such uses.

10. Maintenance. The Town shall be solely responsible for maintaining the Leased Premises in suitable condition and repair with lawns mowed and trash and debris removed as often as is necessary and appropriate for a community space in a highly visible, culturally significant part of the Town. Any structures shall be maintained in good condition and repair. The two former locks of the D&H Canal shall be maintained in their present condition and no repairs shall be made without the approval of DHCHS.

11. Security Deposit. No security deposit shall be required.

12. Utilities. Should the Town desire electric or any other utility services, the Town shall be solely liable for all costs and expenses of installation as well as all other amounts due to said utility or utilities.

13. Real Property Taxes. The parties acknowledge and agree that the Leased Premises are currently tax exempt and thus are not subject to general property or school taxes. In the event that the Leased Premises are no longer tax exempt at any point during the Term, the Town shall be solely responsible for the payment of any such taxes which may be assessed.

14. Indemnification. The Town agrees to indemnify and save harmless DHCHS from and against any and all claims by or on behalf of any person, firm, corporation or other entity,

(Rev. 7/15/2019)

arising from any work or thing whatsoever done by or on behalf of the Town or from any omission of the Town or its agents, in or about the Leased Premises, and will further indemnify and save DHCHS harmless from and against any and all claims arising from any breach or default on the part of the Town in the performance of any covenant or agreement on the part of the Town to be performed pursuant to the terms of this lease, or arising from any act or negligence of the Town, or any of its agents, contractors, servants, employees or licensees, and from and against all costs, reasonable counsel fees, expenses and liabilities incurred in or about any such claim or action or proceeding brought thereon; and in case any action or proceeding be brought against DHCHS by reason of any such claim, the Town, upon notice from Landlord, covenants to resist or defend, at the Town's expense, such action or proceeding.

15. Dissolution. In the event of its judicial or non-judicial dissolution, DHCHS shall, to the maximum extent possible, provide for the conveyance of the Lease Premises to the Town for little or nominal consideration.

16. Recording. The parties acknowledge and agree that this Lease, or a memorandum thereof, shall be recorded in the Ulster County Clerk's Office at the expense of the Town.

17. Waiver of Jury Trial. The parties mutually waive trial by a jury in any matter which comes up between the parties under or because of this.

Landlord:
D & H CANAL HISTORICAL SOCIETY

Tenant:
TOWN OF MARBLETOWN

By: _____
Peter Bienstock, President.

By: _____
Richard Parete, Supervisor

STATE OF NEW YORK

COUNTY OF _____ SS: _____

On July _____, 2019, before me, the undersigned, personally appeared PETER BIENSTOCK personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that the named individual executed the same in that named individual's capacity, and that by the named individual's signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public

STATE OF NEW YORK

COUNTY OF _____ SS: _____

On July _____, 2019, before me, the undersigned, personally appeared RICHARD PARETE personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that the named individual executed the same in that named individual's capacity, and that by the named individual's signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public



TOWN OF MARBLETOWN

A regular meeting of the Town Board of the Town of Marbletown was convened in public session at the Town Hall, 1925 Lucas Ave Cottekill, New York on July 16, 2019 at 7:00 o'clock P.M. local time. The meeting was called to order by Supervisor Rich Parete, and, upon roll being called, the following were:

PRESENT:

ABSENT:

The following Resolution was offered by _____, seconded by _____ to wit:

RESOLUTION # -2019; GRADY PARK LEASE

WHEREAS, the Town is interested in expanding areas available for use and enjoyment by the residents of the Town of Marbletown, and

WHEREAS, the D&H Canal Historical Society and Museum ("the D&H") is interested in making available property in the Town of Marbletown, in the hamlet of High Falls, and

WHEREAS, the subject of this Resolution is limited to four parcels of land owned by the D&H located within the Hamlet of High Falls; and

WHEREAS, those parcels are identified as parcels 70.2.4-1, 70.2.4-2, 70.2.4-3 and 70.2.4-4, together, ("That Certain Tract"); and

WHEREAS, that Certain Tract contains ruins of Lock 17 and Lock 18, a historically protected ruin of the Delaware and Hudson Canal, and subject to all government laws and restrictions thereon; and

WHEREAS, the execution of the Option and Ground Lease Agreement for the Property is subject to: a permissive referendum pursuant to Section 64, Subdivision 2 of the New York State Town Law;

WHEREAS, the Town of Marbletown is prepared to undertake such implementation for the benefit and enjoyment of residents, visitors, and friends of High Falls;

WHEREAS, this resolution is subject to permissive referendum pursuant to subdivision 4 of Section 6-c of the General Municipal Law.

THEREFORE, BE IT RESOLVED, that the Town of Marbletown Town Board authorizes the Town Supervisor to sign the attached lease to enter a 99-year lease (the "Lease") between the D&H (Lessor) and the Town of Marbletown (lessee), and be it further

RESOLVED, that this Resolution is adopted subject to a permissive referendum and that the Town Clerk is directed to publish and post the notice of adoption of this Resolution in accordance with Article 7 of the Town Law within ten (10) days; and it is further

RESOLVED, that upon the expiration of the permissive referendum period, the Town Supervisor is authorized to execute all documents required to complete the Option and Ground Lease Agreement subject to the review and approval of the Town Attorney for the Town as to form and content.

EXHIBIT F.

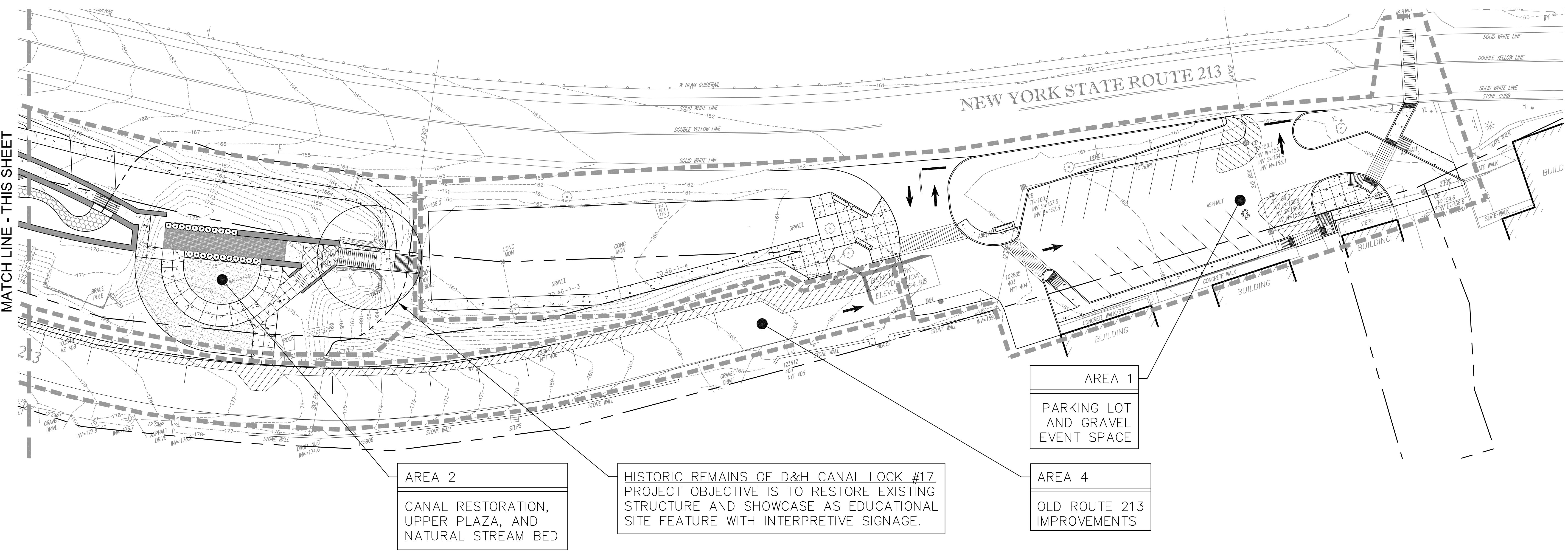
Illustrated Project Phases

PREPARED FOR

TOWN OF MARBLETOWN
1925 LUCAS AVENUE
COTTEKILL, NY 12419

GRADY PARK PROJECT
HIGH FALLS, NY

MATCH LINE - THIS SHEET



THE ALTERATION OF THIS DOCUMENT IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.

R E V I S I O N S

| NO. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |
| | | |

SUBMISSION (SD, DD, CD) DATE

DRAWN/DESIGN BY CNT CHECKED BY CNT

SITE PLAN SKETCH

GPI PROJECT/CONTRACT NO.:
ALB-2019193.00



SPS-1
SHEET 1 OF TOTAL

0 20 50 100
SCALE: 1" = 20'

EXHIBIT G.

Sources & Use of Funds Table Town Comittment Letter for Park Maintenace

| Exhibit H | | | | | |
|--|--------------|--------------|---|---------------|--------------|
| | | | | | |
| Use of Funds | | Sources | | Total | |
| | | State | In-Kind Equity/Sponsor Contribution | Other Sources | |
| Direct Cost | | | | | |
| Area 1: Parking Lot and Gravel Event Space | \$75,650.00 | \$113,107.00 | | | \$188,757.00 |
| Area 5: Western Sidewalk Connection To Creekwalk | \$49,350.00 | | | | \$49,350.00 |
| Poison Ivy Patrol | | | \$11,000.00 | | \$11,000.00 |
| 99 Year Lease D&H Cana+A22I Society | | | \$25,000.00 | | \$25,000.00 |
| | | | | | |
| | | | | | |
| Indirect Cost | | | | | |
| GPI Engineering, Survey, Design, Permitting | | | \$89,216.00 | | \$89,216.00 |
| | | | | | |
| | | | | | |
| Total | \$125,000.00 | \$238,323.00 | | | \$363,323.00 |



Town Hall 1925 Lucas Ave. Cottekill, NY

www.marbletown.net

November 20, 2020

To Whom it May Concern,

The Town of Marbletown increased the Highway Department Personnel budget from \$352,000 in 2019 to \$397,000 in 2020. This increase was for a new staff member to help maintain our parks.

1. The responsibilities include mowing, raking, and weeding lawns.
2. Plant and care for trees, shrubs, and flowers.
3. Inspect and repair benches, picnic tables and other park amenities.

The Town of Marbletown is committed to regular maintenance and care for Grady Park area.

Regards,

Rich Parete, Town Supervisor
Office 845-687-7500 ext 164
Cell 845-797-4241

EXHIBIT H.

Cost Estimate

PRELIMINARY

|  <p>Greenman-Pedersen, Inc. Engineering and Construction Services 80 Wolf Road, Suite 300, Albany, NY 12205</p> | | | | |
|---|----------|-----------|--------------|------------------|
| Project: Grady Park - Opinion of Probable Construction Costs for site work based on proposed improvements for 2020 | | | | Date: 10/21/2020 |
| | | | | Rev. Date: |
| | Quantity | Unit | Unit Price | Cost |
| SITE PREPARATION | | | | |
| Mobilization for Site Prep | 1 | LS | \$10,000.00 | \$10,000.00 |
| Erosion and Sediment Control Measures | 1 | LS | \$2,000.00 | \$2,000.00 |
| Maintenance of Erosion and Sediment Control Measures | 10 | week | \$400.00 | \$4,000.00 |
| Topsoil Striping, Screening and Stockpiling | 10,000 | SF | \$0.15 | \$1,500.00 |
| Rough Grading for Site | 2,500 | CY | \$7.50 | \$18,750.00 |
| Total for Onsite Site Preparation | | | | \$36,250 |
| AREA 1: Parking Lot and Gravel Event Space | | | | |
| Mill and Overlay (1.5" Milling, 1.5" Top Course) | 12,000 | SF | \$2.00 | \$24,000.00 |
| Sawcutting Pavement | 800 | LF | \$2.50 | \$2,000.00 |
| Curbing Removal | 90 | LF | \$7.00 | \$630.00 |
| Landscaping Removal | 1 | LS | \$3,500.00 | \$3,500.00 |
| Asphalt Removal | 3,500 | SF | \$1.00 | \$3,500.00 |
| Asphalt Pavement (1.5" Top Course, 2.5" Binder, 12" Subbase) | 400 | SF | \$5.50 | \$2,200.00 |
| Concrete Sidewalk (4" Concrete, 6" Subbase) | 3,700 | SF | \$12.00 | \$44,400.00 |
| Tactile Warning Strip | 9 | EA | \$500.00 | \$4,500.00 |
| Concrete Curbing | 715 | LF | \$45.00 | \$32,175.00 |
| Gravel Parking (4" crusher run) | 6,000 | SF | \$2.00 | \$12,000.00 |
| Crosswalk Striping (12" lines) | 470 | LF | \$2.00 | \$940.00 |
| Benches | 4 | EA | \$1,500.00 | \$6,000.00 |
| Light Poles and Fixtures | 6 | EA | \$5,000.00 | \$30,000.00 |
| Landscaping | 1 | LS | \$5,000.00 | \$5,000.00 |
| Turf Restoration | 5,000 | SF | \$1.50 | \$7,500.00 |
| Signs and Posts (Handicap, Do Not Enter, No Parking etc.) | 14 | EA | \$500.00 | \$7,000.00 |
| Cross Hatch Striping | 1,050 | SF | \$2.00 | \$2,100.00 |
| Parking Striping | 18 | Stall | \$24.00 | \$432.00 |
| Other Pavement Markings (Arrows, Stop Bars, Handicap Symbol etc.) | 110 | SF | \$8.00 | \$880.00 |
| Total for Parking Lot and Gravel Event Space | | | | \$188,757 |
| AREA 2: Canal Restoration, Upper Plaza and Natural Stream Beds | | | | |
| Concrete Sidewalk (4" Concrete, 6" Subbase) | 3,700 | SF | \$12.00 | \$44,400.00 |
| Fill Material including Compaction | 1,500 | CY | \$6.00 | \$9,000.00 |
| Pavers (Paver, 6" Subbase) | 1,700 | SF | \$30.00 | \$51,000.00 |
| Concrete Curbing | 65 | LF | \$12.00 | \$780.00 |
| Concrete Stairs | 24 | per riser | \$500.00 | \$12,000.00 |
| Retaining Walls | 550 | LF | \$200.00 | \$110,000.00 |
| Drainage | 1 | LS | \$15,000.00 | \$15,000.00 |
| Natural Stream Bed Construction | 2 | EA | \$2,500.00 | \$5,000.00 |
| Pedestrian Bridge | 2 | LS | \$2,500.00 | \$5,000.00 |
| Turf Restoration | 5,000 | SF | \$1.50 | \$7,500.00 |
| Landscaping | 1 | LS | \$10,000.00 | \$10,000.00 |
| Historic Mooring Posts | 8 | EA | \$500.00 | \$4,000.00 |
| Restoration of Locks | 1 | LS | \$25,000.00 | \$25,000.00 |
| Total for Canal Restoration, Upper Plaza and Natural Stream Bed | | | | \$298,680 |
| AREA 3: Memorial Area | | | | |
| Concrete Sidewalk (4" Concrete, 6" Subbase) | 2,100 | SF | \$9.00 | \$18,900.00 |
| Concrete Stairs | 16 | per riser | \$500.00 | \$8,000.00 |
| Retaining Walls | 240 | LF | \$150.00 | \$36,000.00 |
| Pavers (Paver, 1" sand setting bed, 6" Subbase) | 550 | SF | \$30.00 | \$16,500.00 |
| Flagpole (aluminum 20' high) and concrete base | 1 | EA | \$5,000.00 | \$5,000.00 |
| Relocation of Historic Millstone | 1 | LS | \$500.00 | \$500.00 |
| Turf Restoration | 5,000 | SF | \$1.50 | \$7,500.00 |
| Memorial Plaza | 1 | LS | \$100,000.00 | \$100,000.00 |
| Utility Pole Relocation | 2 | EA | \$37,500.00 | \$75,000.00 |
| Landscaping | 1 | LS | \$5,000.00 | \$5,000.00 |
| Total for Memorial Area | | | | \$272,400 |
| AREA 4: Old Route 213 Improvements | | | | |
| Sawcutting Pavement | 90 | LF | \$2.50 | \$225.00 |
| Asphalt Removal | 350 | SF | \$1.00 | \$350.00 |
| Asphalt Pavement (1.5" Top Course, 2.5" Binder, 12" Subbase) | 1,200 | SF | \$5.50 | \$6,600.00 |
| Cross Hatch Striping | 3,600 | SF | \$2.00 | \$7,200.00 |
| Parking Striping | 26 | Stall | \$24.00 | \$624.00 |
| Crosswalk Striping (12" lines) | 150 | LF | \$2.00 | \$300.00 |

| | | | | |
|---|-------|----|-----------------|-----------------------|
| Other Pavement Markings (Arrows, Stop Bars, Handicap Symbol etc.) | 24 | SF | \$8.00 | \$192.00 |
| Light Poles and Fixtures | 14 | EA | \$5,000.00 | \$70,000.00 |
| Total for Old Route 213 | | | | \$85,491 |
| AREA 5: Western Sidewalk Connection To Creekwalk | | | | |
| Sawcutting Pavement | 420 | LF | \$2.50 | \$1,050.00 |
| Asphalt Removal | 1,800 | SF | \$1.00 | \$1,800.00 |
| Concrete Sidewalk (4" Concrete, 6" Subbase) | 2,000 | SF | \$12.00 | \$24,000.00 |
| Concrete Curbing | 390 | LF | \$45.00 | \$17,550.00 |
| Crosswalk Striping (12" lines) | 300 | LF | \$1.50 | \$450.00 |
| Tactile Warning Strip | 5 | EA | \$500.00 | \$2,500.00 |
| Signs and Posts (Pedestrian Crossing etc.) | 4 | EA | \$500.00 | \$2,000.00 |
| Total for Creekwalk Sidewalk | | | | \$49,350 |
| | | | Subtotal | \$930,928.00 |
| Design Development Contingency (15%) | | | ADD | \$139,639.20 |
| CM & Admin (10%) | | | ADD | \$93,092.80 |
| 2020 Total | | | | \$1,163,660.00 |
| 2021 Total (3% Inflation) | | | | \$1,198,569.80 |
| 2022 Total (3% Inflation) | | | | \$1,234,526.89 |
| 2023 Total (3% Inflation) | | | | \$1,271,562.70 |

*This Opinion of Probable Cost is conceptual in nature and has been developed in reference to conceptual design site improvements. This Opinion of Probable Cost only includes costs for items specifically identified herein. It is intended to give order of magnitude pricing information and is not intended to give final pricing information. It is an opinion of probable cost. Unit prices depicted herein were derived from the Online Edition of "Site Work and Landscape Cost Data" published by RS Means, 2020 as well as other sources.