



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: NAN-2020-00513-EMC

Issue Date: **May 3, 2021**

Expiration Date: **May 24, 2021**

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Village of Rockville Centre

ACTIVITY: Construct a Living Shoreline as part of the overall Living With the Bay Storm Resiliency Strategy

WATERWAY: Mill River, tributary of Hempstead Bay

LOCATION: Lister Park, Tighe Field, Centennial Field and Bligh Field, in the Town of Hempstead, Nassau County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND EMAILED TO Reegan.A.McCaulley@usace.army.mil TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

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Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Governor's Office of Storm Recovery (GOSR), as the lead federal agency, with the exception of the Northern Long Eared Bat (NLEB), made a No Effect determination for any Federally endangered or threatened species or their critical habitat within National Marine Fisheries Service and U.S. Fish and Wildlife Service (USFWS) jurisdiction. On April 7, 2020, the GOSR submitted a Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form to USFWS. This framework allows federal agencies to rely upon the USFWS January 5, 2016, intra-Service Programmatic Biological Opinion (BO) on the final 4(d) rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if re-initiation of consultation is required per 50 CFR 402.16.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the disruption of habitat for various lifestages of some EFH-designated species as a result of a temporary increase in turbidity during construction. The GOSR, as the lead federal agency, has made the determination that the site-specific adverse effects are not likely to be substantial based on implementation of best management practices such as working during low tide to minimize in-water work, and use of turbidity controls. Consultation regarding EFH impacts and conservation recommendations was concluded with concurrence by NOAA/FS determining that the adverse effects of this project on EFH will not be substantial on June 18, 2020.

Pursuant to Section 106 of the Historic Preservation Act, the GOSR, as the lead federal agency, has completed consultation with the Tribes and the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) for the project's potential effects on historic properties. A Phase IB archaeological survey was completed, and no archaeological resources were identified. The GOSR determined there are no properties within the permit area that are listed in or eligible for listing in the National Register of Historic Places which would be affected by this undertaking. OPRHP determined that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking on July 16, 2020. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under

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authority of Section 404 (b) of the Clean Water Act (CWA) and the applicant obtained a water quality certificate, Permit ID 1-2820-06298/00003 with an effective date of January 7, 2021 from the New York State Department of Environmental Conservation (NYSDEC) in accordance with Section 401 of the CWA.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- NYSDEC for Tidal Wetlands, Permit ID 1-2820-06298/00002
- NYSDEC for Excavation & Fill in Navigable Waters, Permit ID 1-2820-06298/00004

The applicant has stated that they have avoided, minimized and mitigated for impacts proposed to the maximum extent practicable by utilizing a limited amount of heavy machinery, including small backhoes, bulldozers, for the excavation and construction of the living shoreline, and employing erosion control.

The applicant has not proposed compensatory mitigation, and stated the implementation of the living shoreline project is inherently designed to enhance habitat quality and diversity of the wetlands and adjacent area, and would result in a net benefit of wetland functions and values; therefore, mitigation for permanent losses (to aquatic resources) are provided by living shorelines.

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact, Reagan McCaulley at (917) 790-8523.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

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FOR AND IN BEHALF OF
Stephan A. Ryba
Chief, Regulatory Branch

WORK DESCRIPTION

The permit applicant, Village of Rockville Centre, has requested Department of the Army authorization to conduct work in a navigable waterway pursuant to Section 10 of the Rivers and Harbors Act, and to discharge regulated fill materials pursuant to Section 404 of the Clean Water Act to construct a living shoreline, a total of approximately 3,550 linear feet (approximately 62,726 square feet) within waters of the U.S. (WOTUS) that includes regulated wetlands landward of Spring High Water (SHW), to provide bank stabilization and habitat enhancement at public parks (Lister Park, Tighe Field, Centennial Field and Bligh Field), in Mill River, in the Town of Hempstead, Nassau County, New York. The proposed work is a component of the U.S. Housing and Urban Development (HUD) agency's overall "Rebuild by Design-Living with the Bay" coastal storm resiliency strategy.

The regulated work would result in permanent impacts of a total of approximately 0.23-acre of existing WOTUS through placement of the rock sills, including approximately 0.06-acre of forested estuarine wetland, 0.13-acre of open water, 0.03-acre of emergent estuarine wetland, and 0.01-acre of scrub-shrub estuarine wetland. The work would result in temporary impacts of a total of approximately 1.23-acres of existing WOTUS as a result of the vegetative plantings (1.13-acre) and excavation/construction activities and equipment access (0.10-acres).

Construction of the living shoreline would include the following activities:

1) Rock Sills

Construct a lower rock sill, a total of approximately 4,834 linear feet long by 18-inches wide by one-foot tall, at the toe of the slope between the planes of Mean Low Water (MLW) and Mean High Water (MHW), along several sections of the living shoreline. Construct an upper rock sill, a total of approximately 1,860 linear feet long and between 18 to 36-inches wide by one-foot tall, mid-slope between the planes of MHW and SHW, along several sections of the living shoreline.

2) Coir Logs

Install 12-inch diameter biodegradable coir logs, in single or double rows along the length of the living shoreline, up to a total of approximately 3,550 linear feet, at the plane of MLW to minimize turbidity.

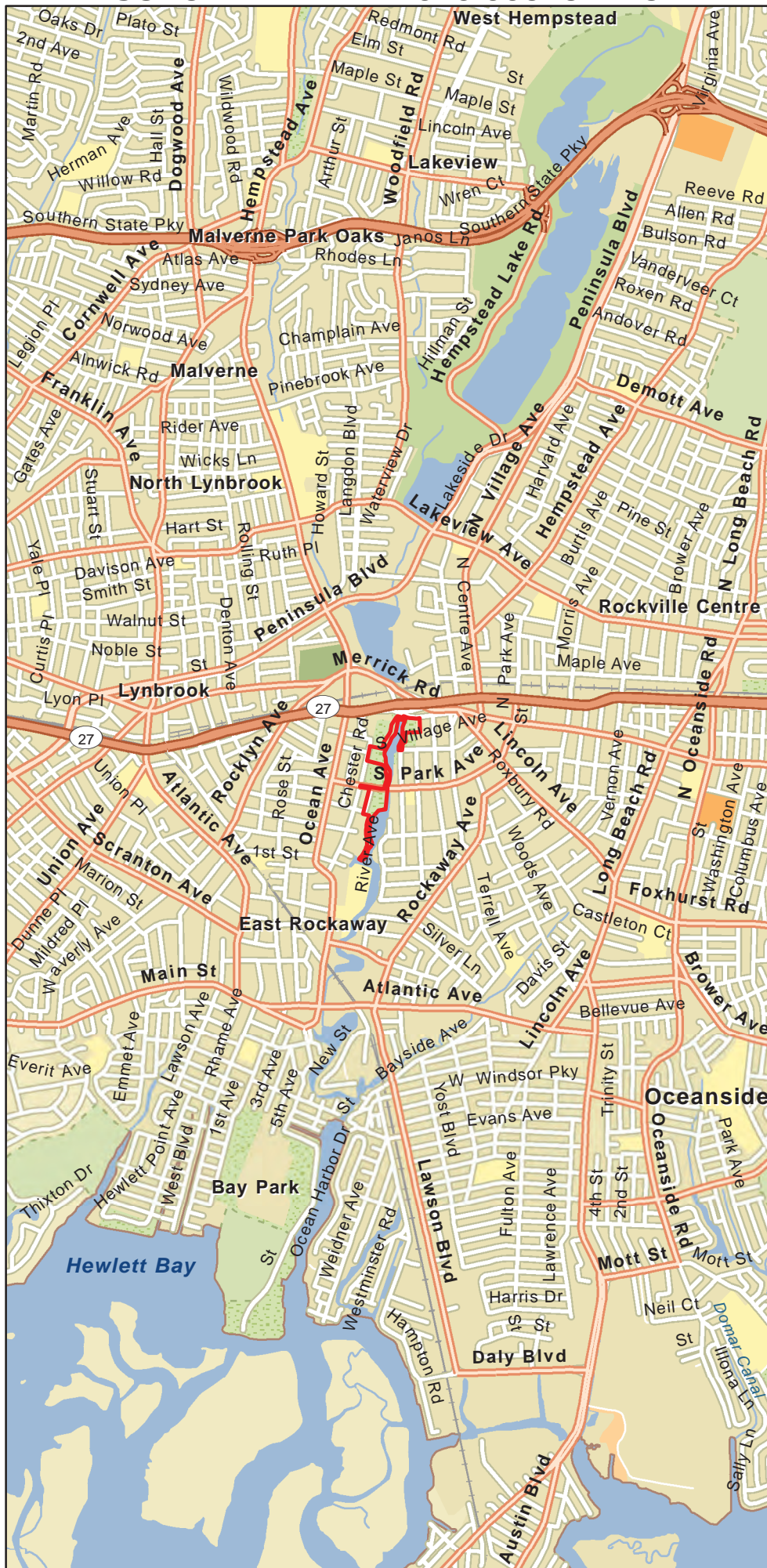
3) Vegetative Plantings

Establish or re-establish native wetland vegetation in a total of approximately 49,400 square feet (1.13-acre) of WOTUS, including approximately 0.26-acre of forested wetland, 0.46-acre of open water, 0.21-acre of emergent, and 0.20-acre of scrub-shrub wetlands. Plantings include approximately 0.61-acre of low marsh between the planes of MLW and MHW and approximately 0.12-acre of high marsh between the planes of MHW and SHW. Place approximately 75 cubic yards of clean sand up to 12-inches deep in WOTUS over approximately 5,500 square feet (approximately 908 feet long and variable widths), as needed, to establish a medium for vegetative plantings.

The living shoreline would extend up to a maximum of approximately 28 linear feet into the waterway from the plane of SHW, and up to a maximum of approximately eight linear feet into the waterway from the plane of MLW.

Other activities are proposed as part of the overall project, outside of WOTUS, such as reconstruction and repaving of an existing parking lot, construction of porous asphalt greenway and earthen berm and knee walls in upland, and in-kind replacement of overlooks.

The applicant's stated purpose of this project is to stabilize the shoreline, improve habitat and wetland functions and values through the proposed planting of native vegetation



Legend

 Project Area

Source:
ESRI Street Map North America, Tele Atlas North America, Inc.,
published by ESRI® Data & Maps, Redlands, California, 2010.

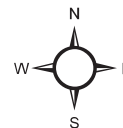
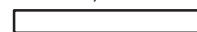


Figure 1
Site Location Map

Governor's Office of Storm Recovery
Living with the Bay
Lister Park Project
Village of Rockville Centre
Nassau County, New York

ASGECI Project # 4357

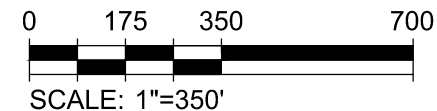
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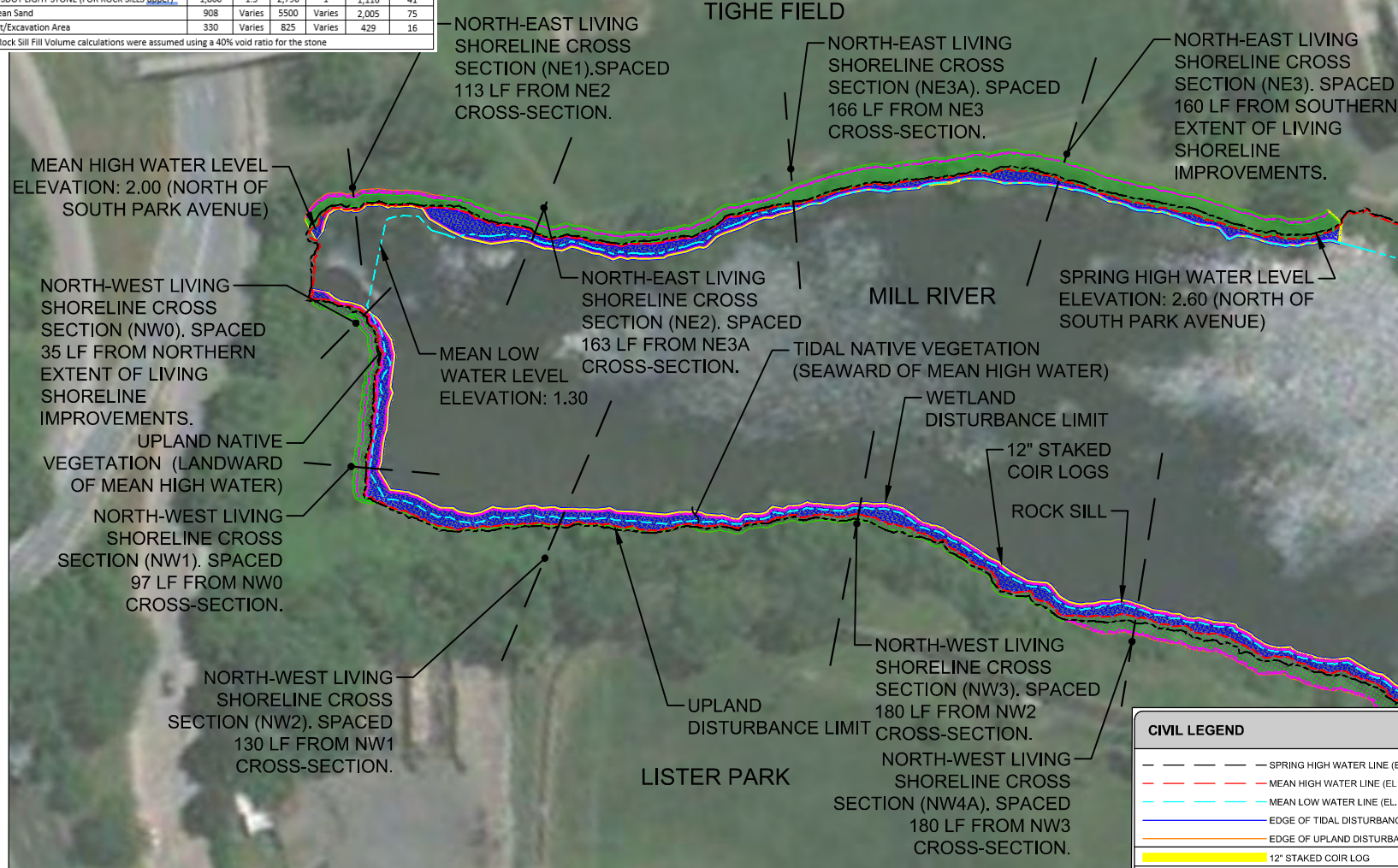
APPLICANT: TETRA TECH	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
WATERWAY: MILL RIVER		LISTER PARK PROJECT	DATE: 01/13/2021
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY		LIVING SHORELINE OVERALL PLAN	DESN: ES
COUNTY: NASSAU COUNTY, NEW YORK			<div>FIGURE 6</div>
NUMBER OF SHEETS: 6 OF 74			

Bar Measures 1 inch

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FILL TYPE (BELOW SHW)	LENGTH (LF)	WIDTH (FT)	AREA (SF)	HEIGHT (FT)	VOLUME (CF)	VOLUME (CY)
COIR LOG (BIODEGRADABLE)	3,550	1	3,550	1	3,550	94
NYS DOT LIGHT STONE (FOR ROCK SILLS, <u>lower</u>)	4,834	1.5	7,251	1	2,900	33
NYS DOT LIGHT STONE (FOR ROCK SILLS, <u>upper</u>)	1,860	1.5	2,790	1	1,116	41
Clean Sand	908	Varies	5500	Varies	2,005	75
Cut/Excavation Area	330	Varies	825	Varies	429	16

* Rock Sill Fill Volume calculations were assumed using a 40% void ratio for the stone



CIVIL LEGEND	PROPOSED QUANTITY
— SPRING HIGH WATER LINE (EL. 2.60)	
— MEAN HIGH WATER LINE (EL. 2.00)	
— MEAN LOW WATER LINE (EL. 1.30)	
— EDGE OF TIDAL DISTURBANCE	
— EDGE OF UPLAND DISTURBANCE	
12" STAKED COIR LOG	3,550 LF (ALL BELOW MHW)
ROCK SILL	4,834 LF BELOW MHW 4,834 LF BELOW SHW 6,694 LF TOTAL FOR PROJECT
TIDAL NATIVE VEGETATION	26,465 SF BELOW MHW 31,815 SF BELOW SHW
UPLAND NATIVE VEGETATION	49,400 SF OF TOTAL VEGETATION PROPOSED

APPLICANT: TETRA TECH
 WATERWAY: MILL RIVER
 TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
 COUNTY: NASSAU COUNTY, NEW YORK
 NUMBER OF SHEETS: 7 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
 PLAN VIEW - NORTH

PROJ: 200-89763-18003

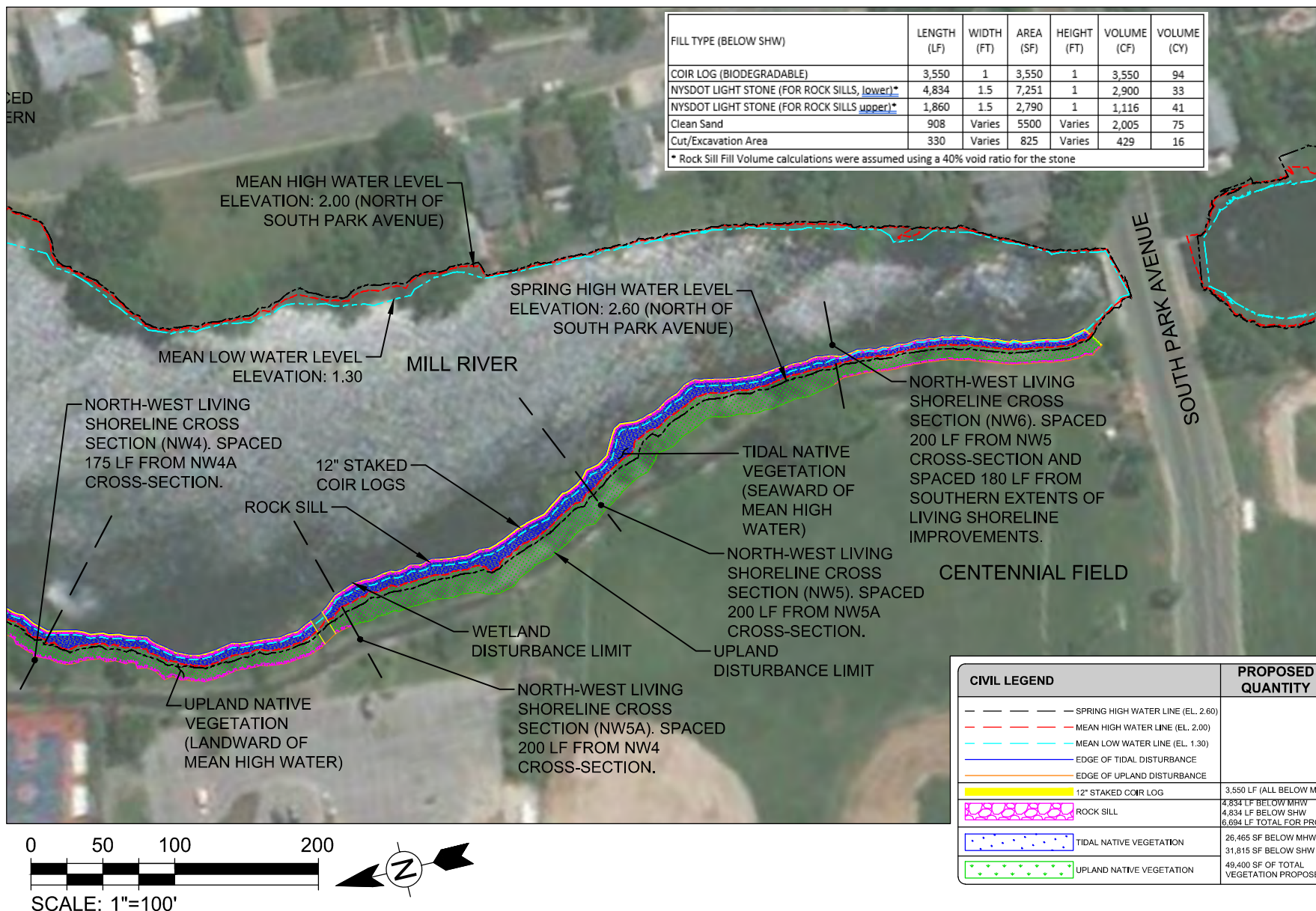
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DESN: ES


FIGURE 7

Bar Measures 1 inch

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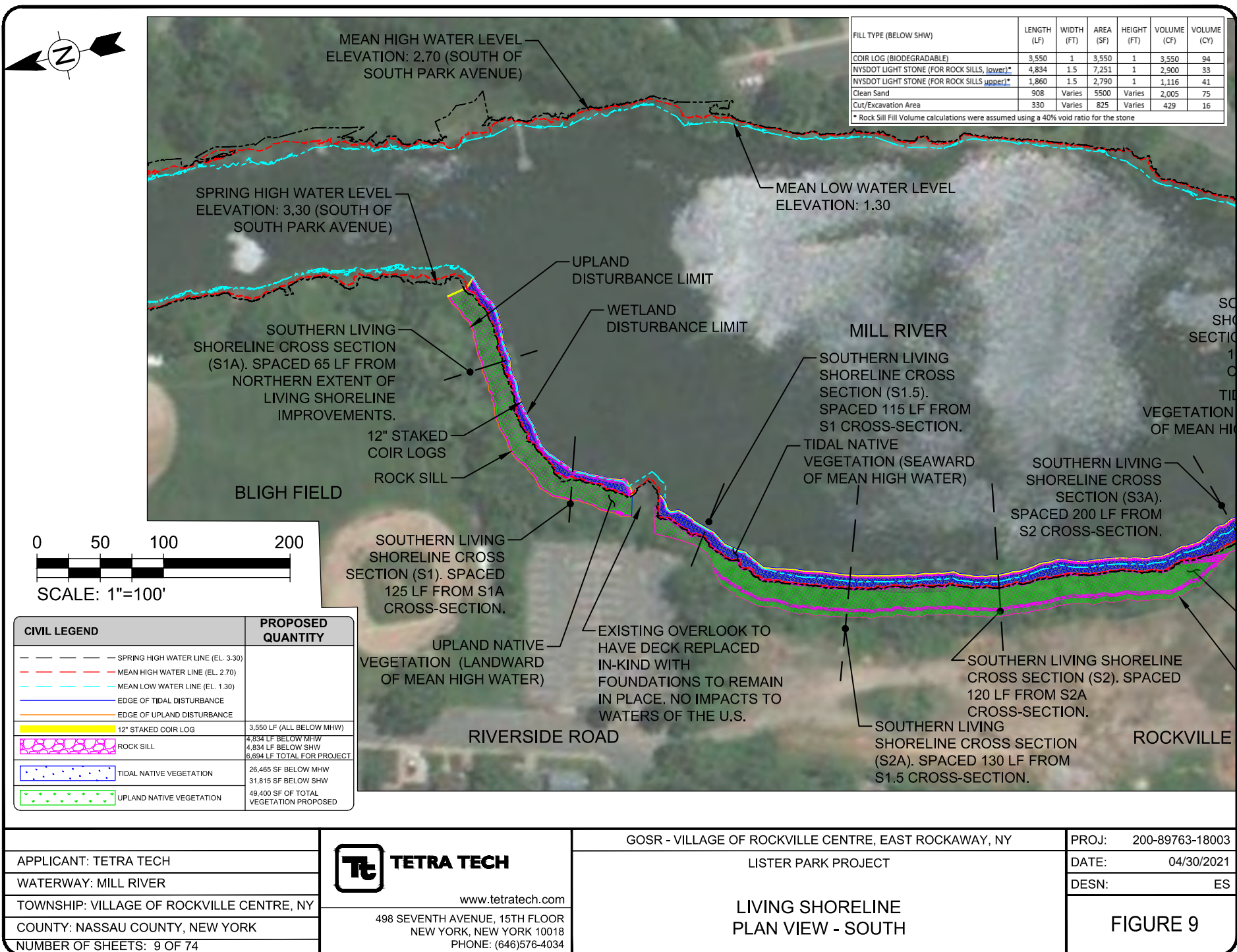


CIVIL LEGEND	PROPOSED QUANTITY
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--- MEAN LOW WATER LINE (EL. 1.30)	
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APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 8 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
		LISTER PARK PROJECT	DATE: 04/30/2021
		LIVING SHORELINE PLAN VIEW - NORTH	DESN: ES
			FIGURE 8

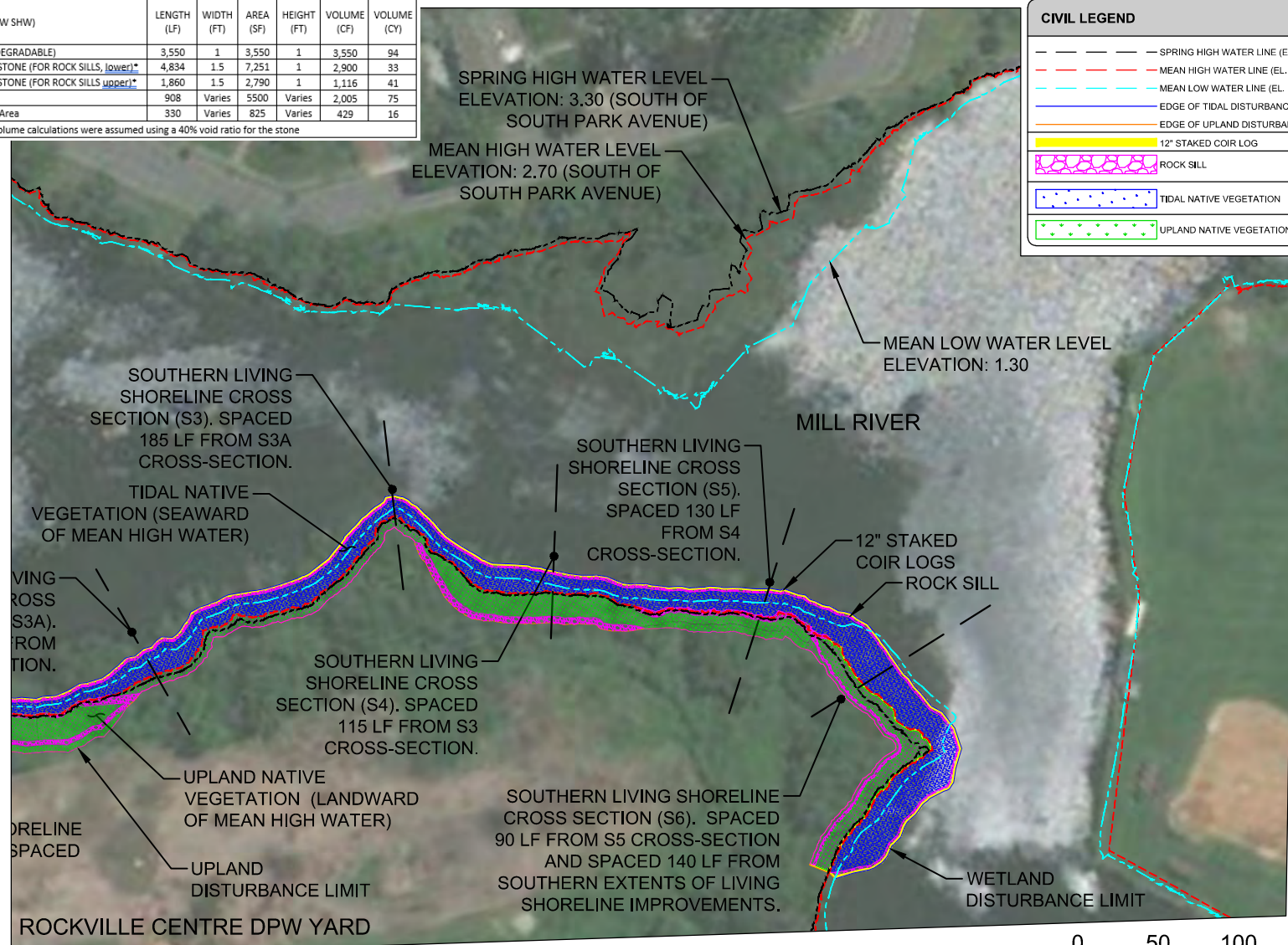
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FILL TYPE (BELOW SHW)	LENGTH (LF)	WIDTH (FT)	AREA (SF)	HEIGHT (FT)	VOLUME (CF)	VOLUME (CY)
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Clean Sand	908	Varies	5500	Varies	2,005	75
Cut/Excavation Area	330	Varies	825	Varies	429	16

* Rock Sill Fill Volume calculations were assumed using a 40% void ratio for the stone



CIVIL LEGEND	PROPOSED QUANTITY
--- SPRING HIGH WATER LINE (EL. 3.30)	
--- MEAN HIGH WATER LINE (EL. 2.70)	
--- MEAN LOW WATER LINE (EL. 1.30)	
--- EDGE OF TIDAL DISTURBANCE	
--- EDGE OF UPLAND DISTURBANCE	
12" STAKED COIR LOG	3,550 LF (ALL BELOW MHW)
ROCK SILL	4,834 LF BELOW MHW 4,834 LF BELOW SHW 6,694 LF TOTAL FOR PROJECT
TIDAL NATIVE VEGETATION	26,465 SF BELOW MHW 31,815 SF BELOW SHW
UPLAND NATIVE VEGETATION	49,400 SF OF TOTAL VEGETATION PROPOSED

0 50 100 200
SCALE: 1"=100'

APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 10 OF 74



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PHONE: (646)576-4034

GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
PLAN VIEW - SOUTH

PROJ: 200-89763-18003

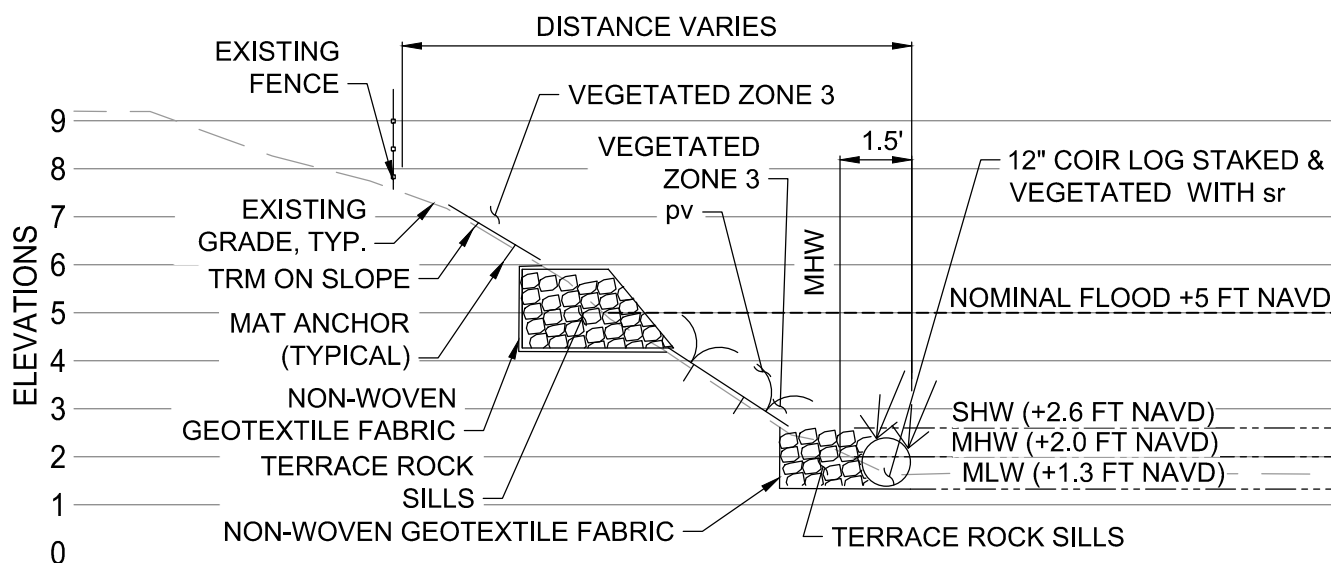
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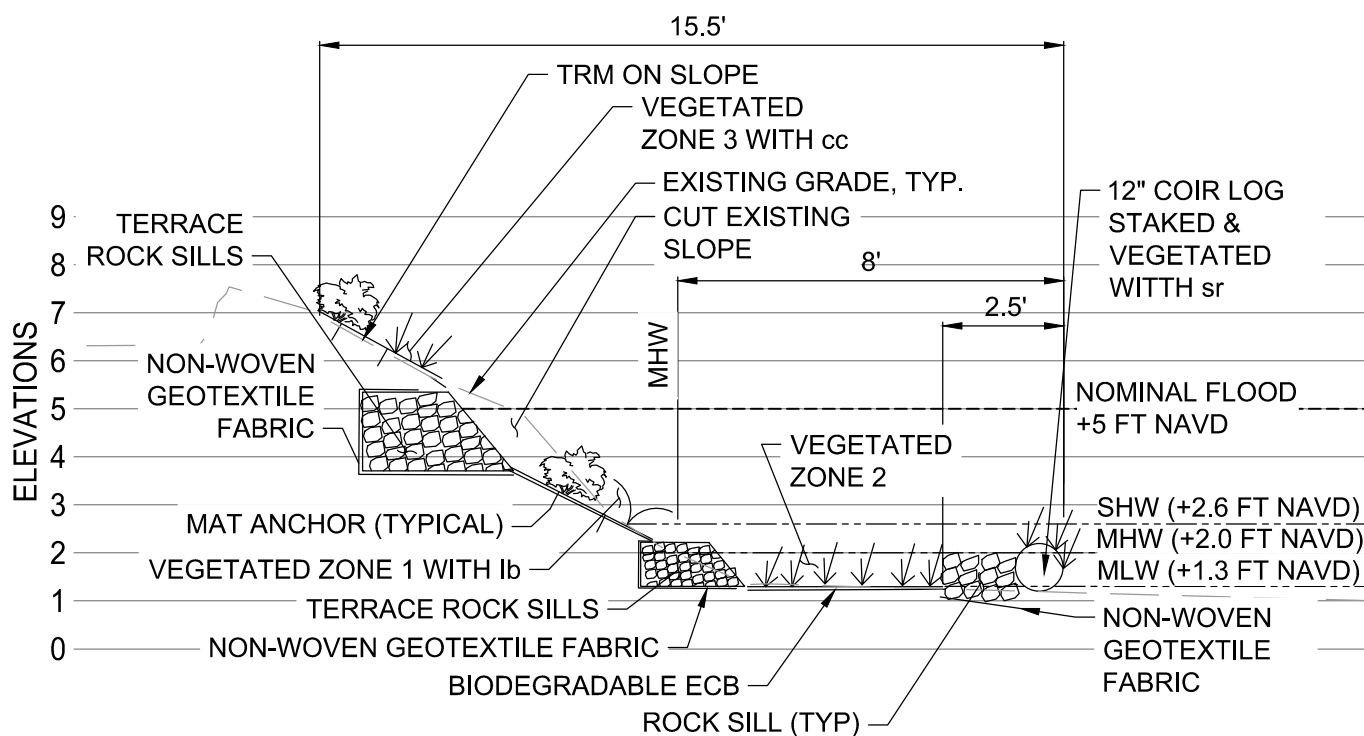
FIGURE 10

Bar Measures 1 inch

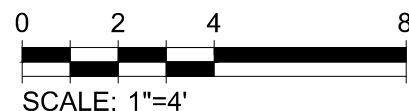
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NE1 NORTH-EAST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



NE2 NORTH-EAST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 11 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
NORTHERN CROSS-SECTIONS

PROJ: 200-89763-18003

DATE: 01/13/2020

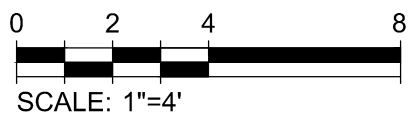
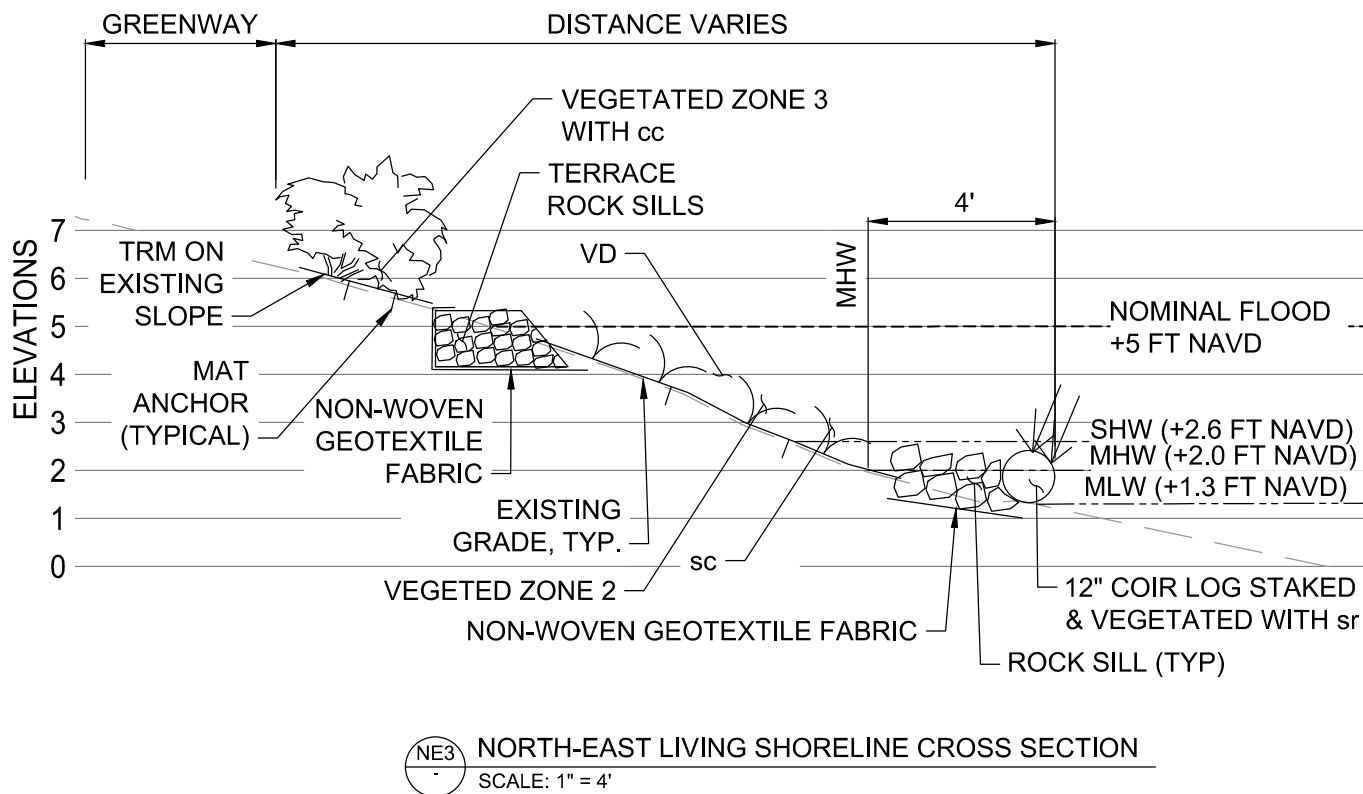
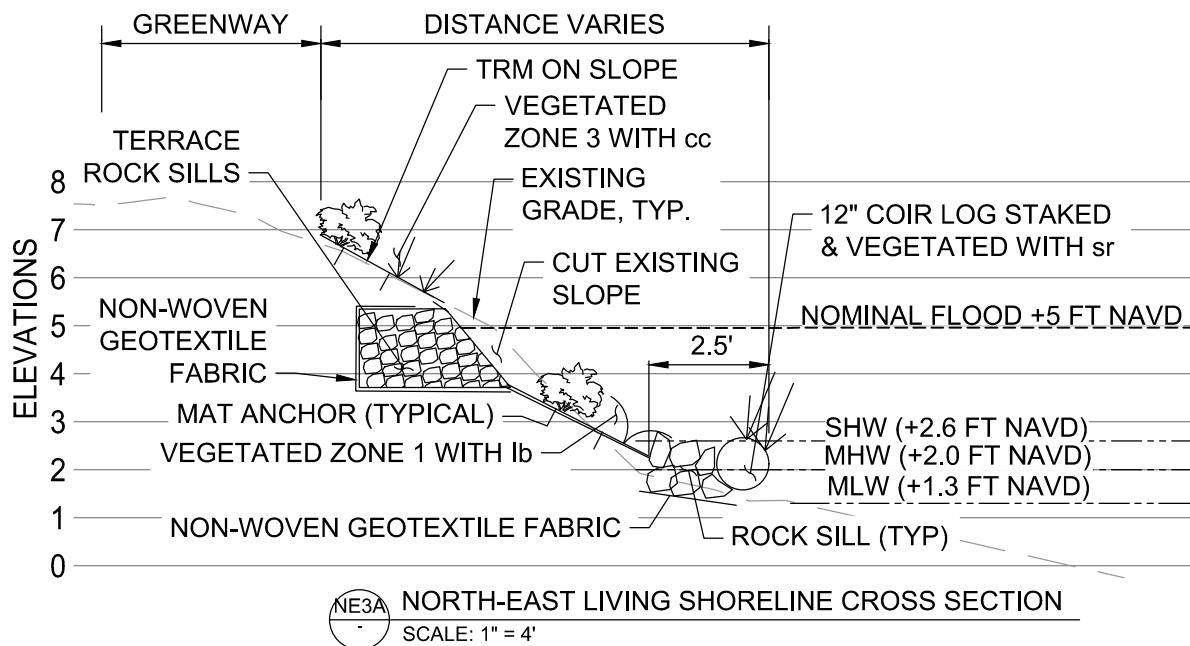
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FIGURE 11

Bar Measures 1 inch

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APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 12 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

**LIVING SHORELINE
NORTHERN CROSS-SECTIONS**

PROJ: 200-89763-18003

DATE: 01/13/2020

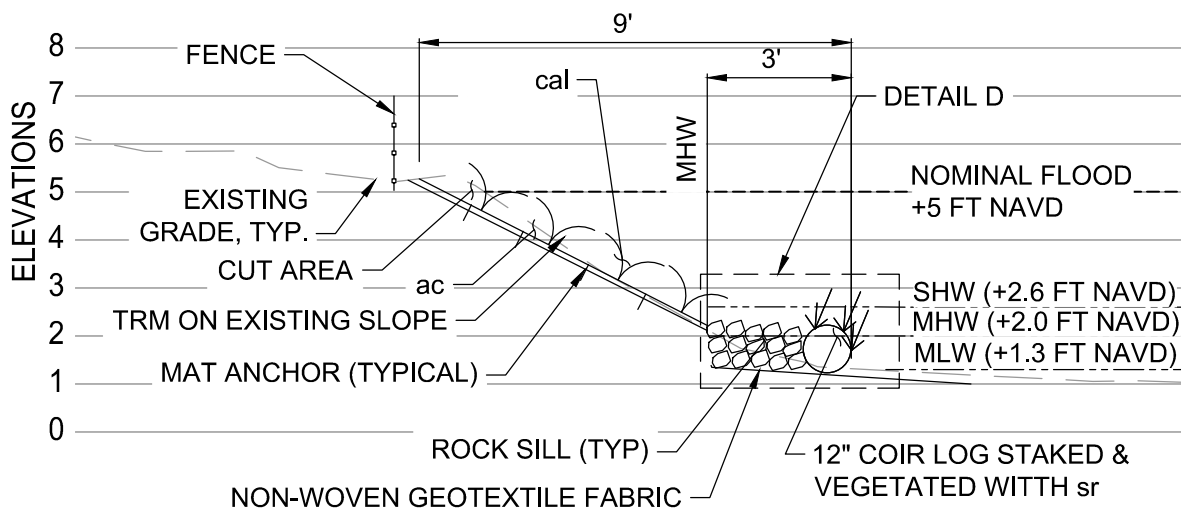
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FIGURE 12

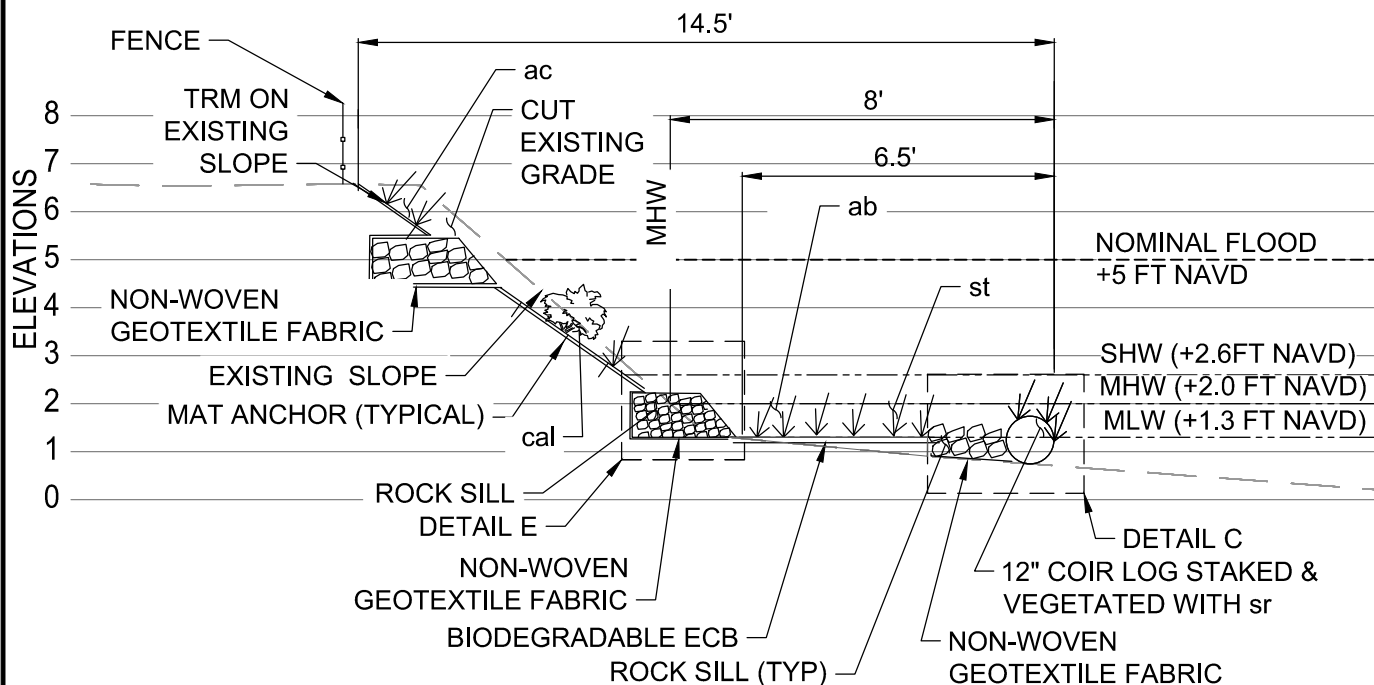
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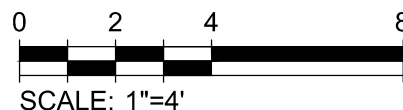
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NW0 NORTH-WEST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



NW1 NORTH-WEST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 13 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
NORTHERN CROSS-SECTIONS

PROJ: 200-89763-18003

DATE: 01/13/2020

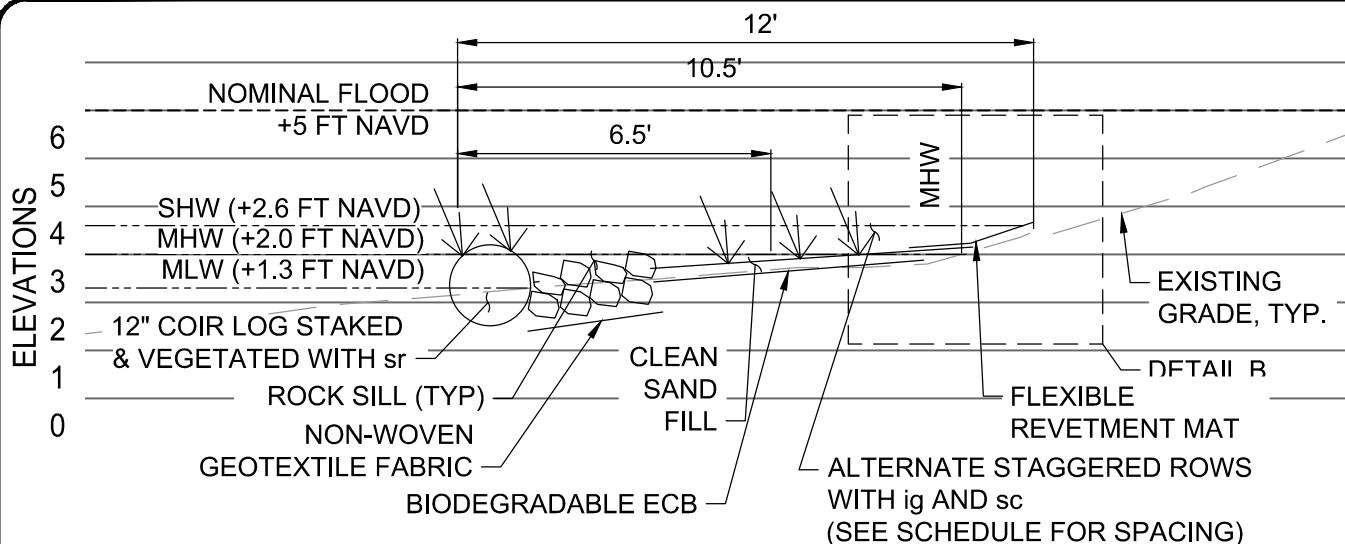
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FIGURE 13

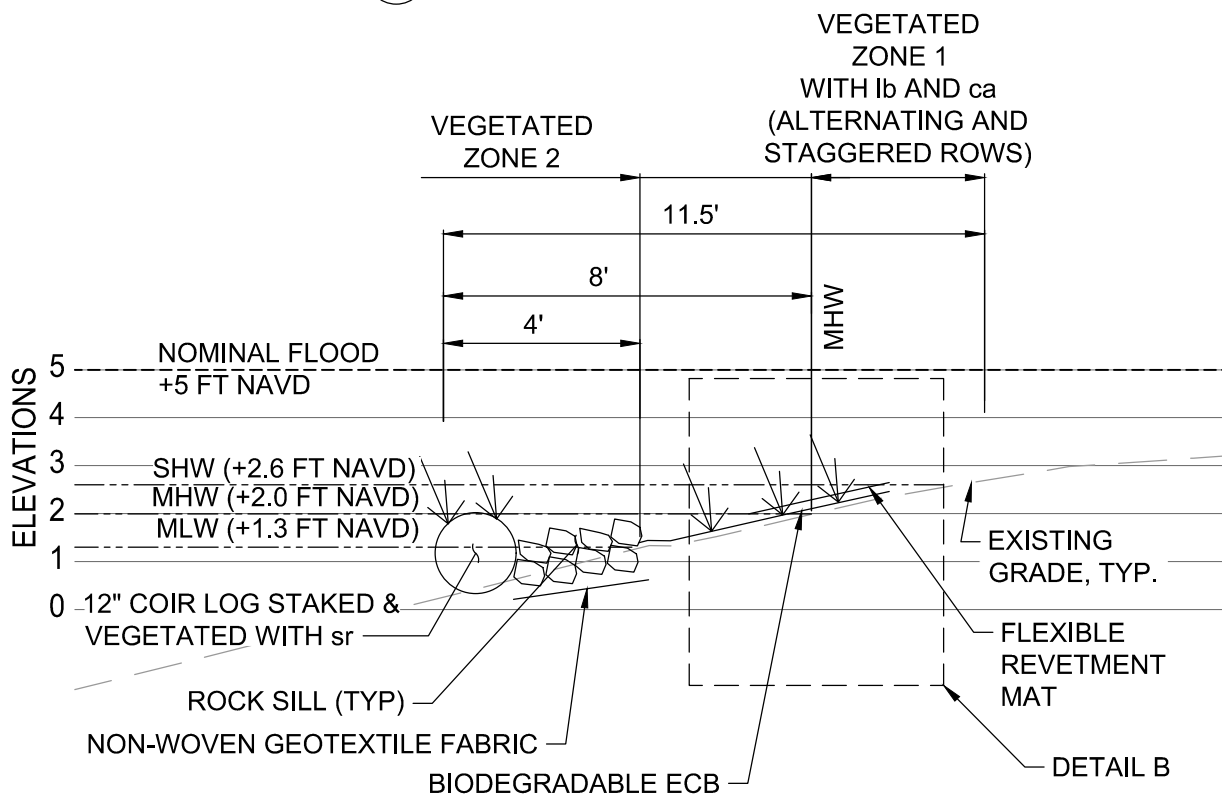
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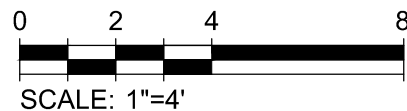


NW2 NORTH-WEST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



NW3 NORTH-WEST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'

APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 14 OF 74



TETRA TECH

www.tetrattech.com

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NEW YORK, NEW YORK 10018
PHONE: (646)576-4034

GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
NORTHERN CROSS-SECTIONS

PROJ: 200-89763-18003

DATE: 01/13/2020

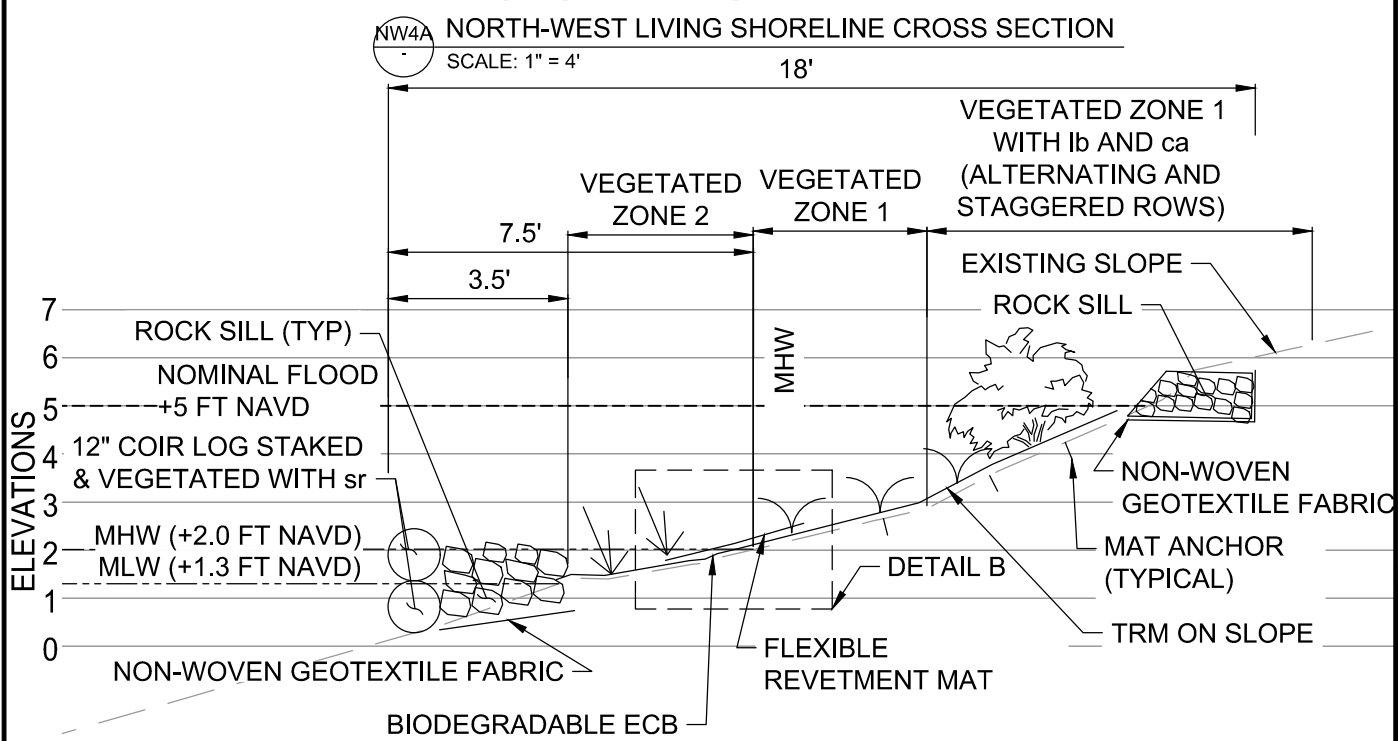
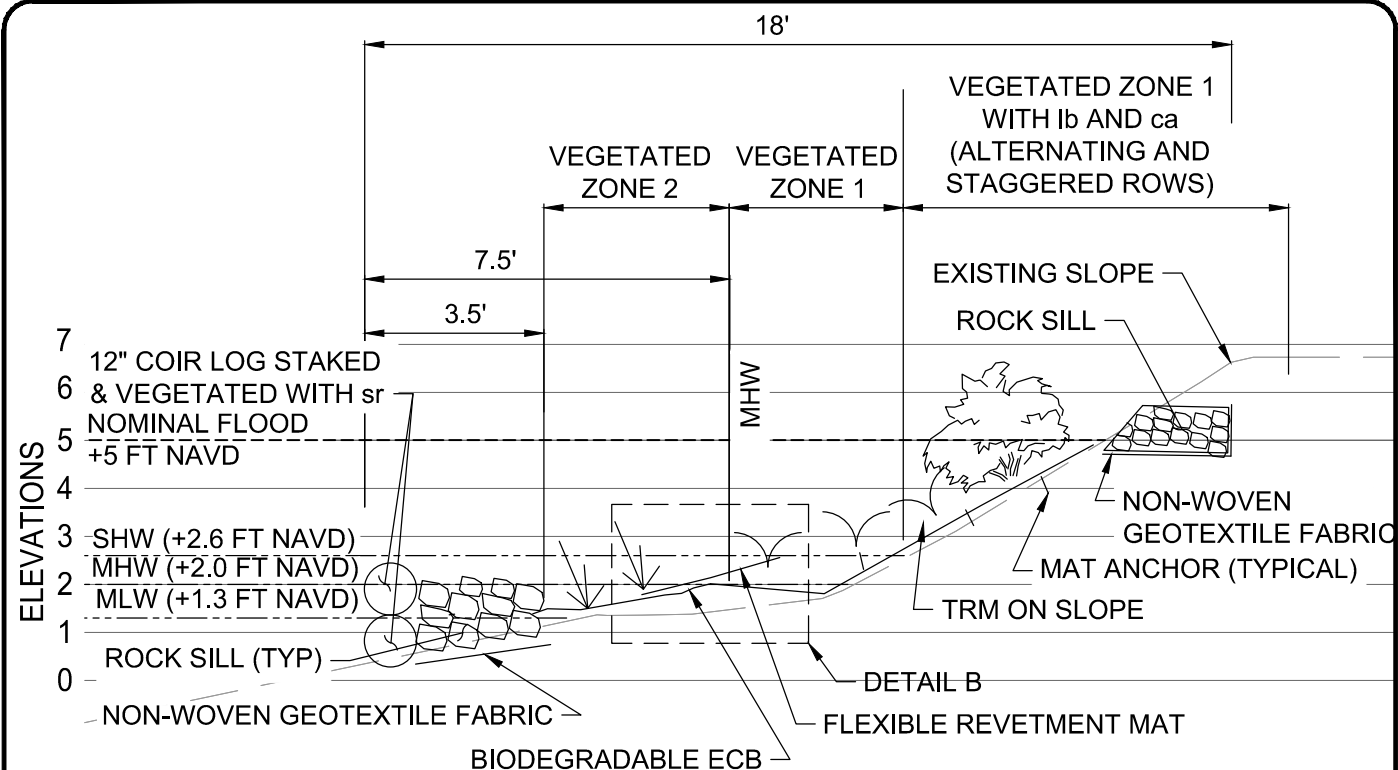
DESN: ES

FIGURE 14

Bar Measures 1 inch

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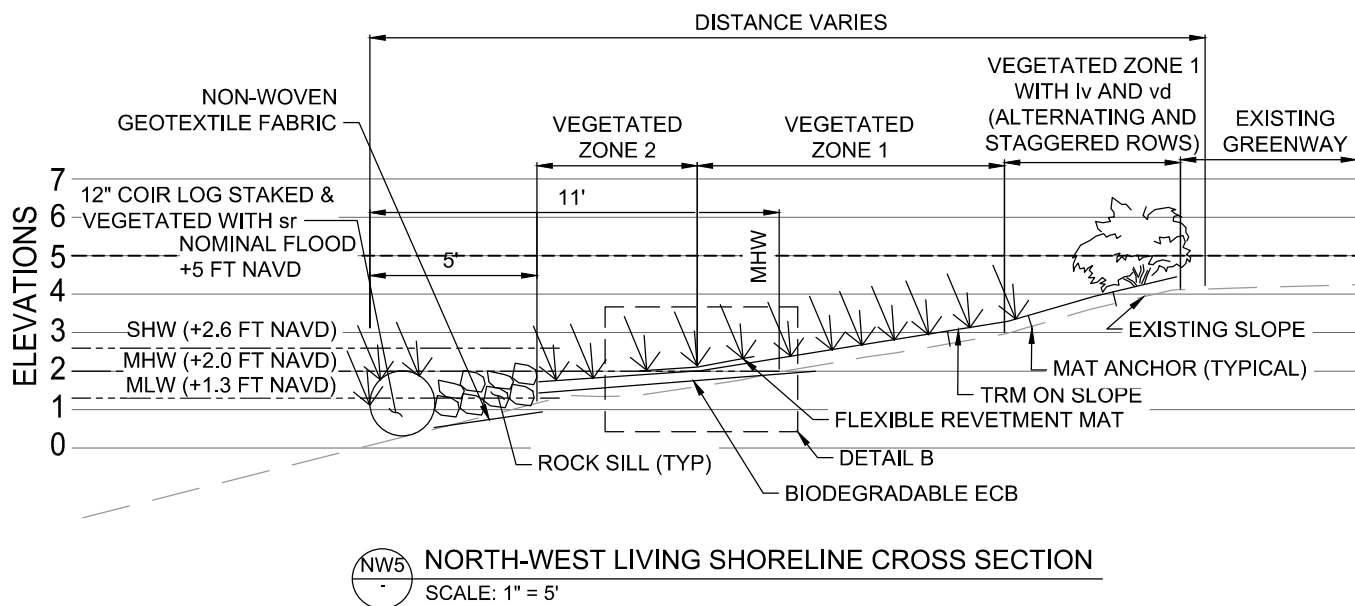
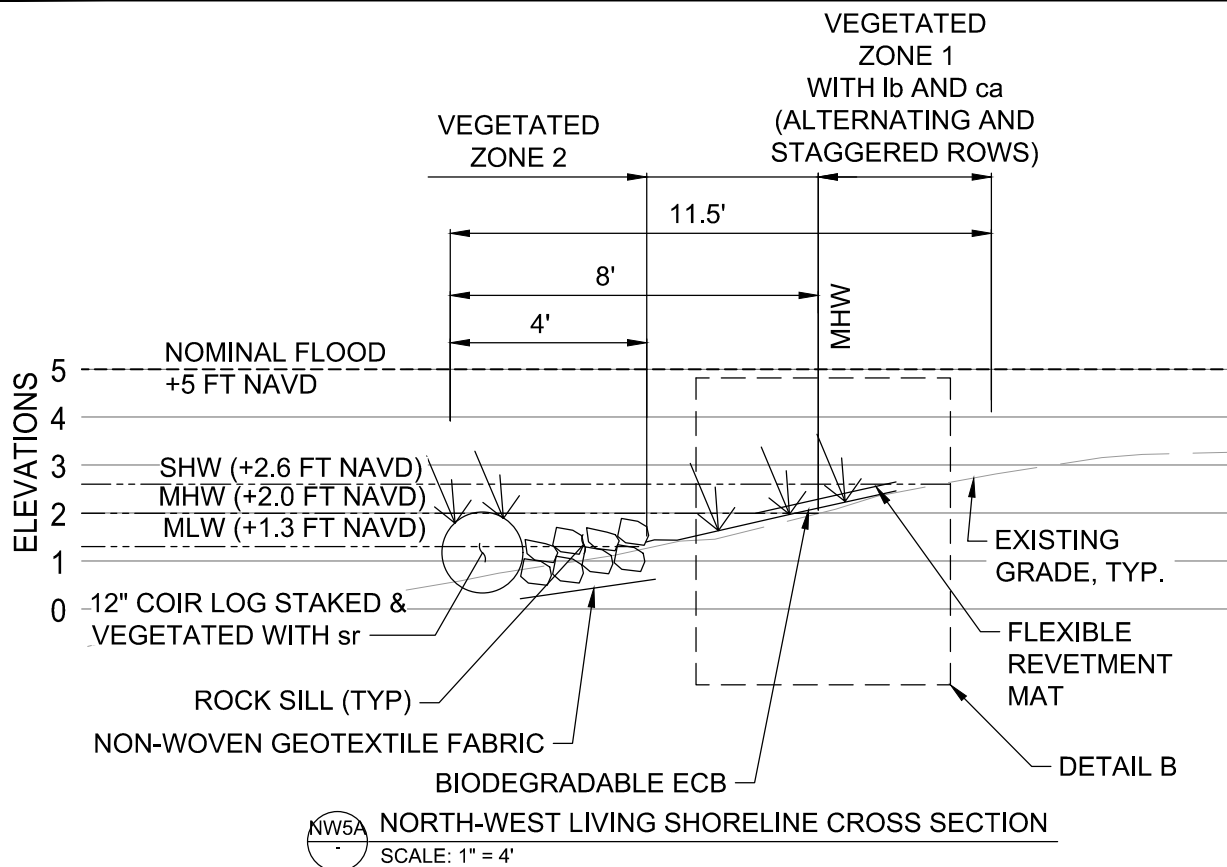


<p>APPLICANT: TETRA TECH</p> <p>WATERWAY: MILL RIVER</p> <p>TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY</p> <p>COUNTY: NASSAU COUNTY, NEW YORK</p> <p>NUMBER OF SHEETS: 15 OF 74</p>		<p>NW4 NORTH-WEST LIVING SHORELINE CROSS SECTION</p> <p>SCALE: 1" = 4'</p> <p>0 2 4 8</p> <p>SCALE: 1"=4'</p>	
<p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>498 SEVENTH AVENUE, 15TH FLOOR</p> <p>NEW YORK, NEW YORK 10018</p> <p>PHONE: (646)576-4034</p>		<p>GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY</p> <p>LISTER PARK PROJECT</p> <p>LIVING SHORELINE</p> <p>NORTHERN CROSS-SECTIONS</p>	
		<p>PROJ: 200-89763-18003</p> <p>DATE: 01/13/2020</p> <p>DESN: ES</p>	
		<p>FIGURE 15</p>	

Bar Measures 1 inch

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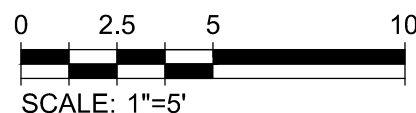
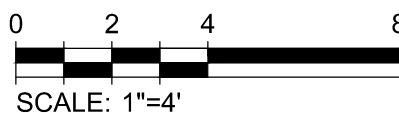
APPLICANT: TETRA TECH

WATERWAY: MILL RIVER

TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY

COUNTY: NASSAU COUNTY, NEW YORK

NUMBER OF SHEETS: 16 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

**LIVING SHORELINE
NORTHERN CROSS-SECTIONS**

PROJ: 200-89763-18003

DATE: 01/13/2020

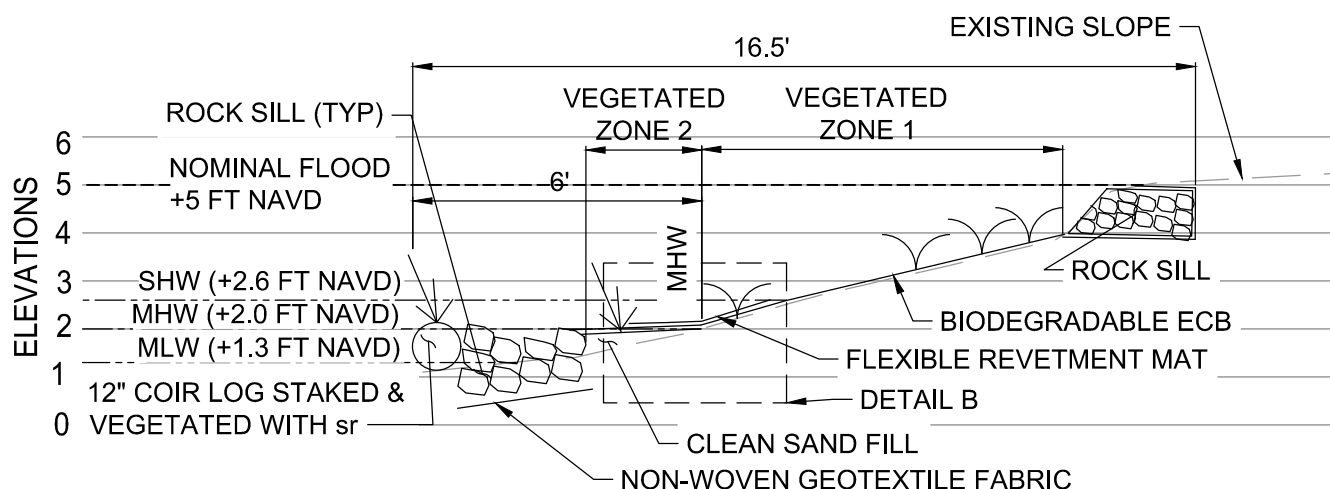
DESN: ES

FIGURE 16

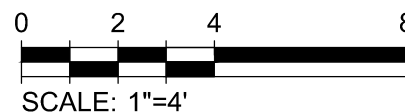
Bar Measures 1 inch

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NW6 NORTH-WEST LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTER, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 17 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
NORTHERN CROSS-SECTIONS

PROJ: 200-89763-18003

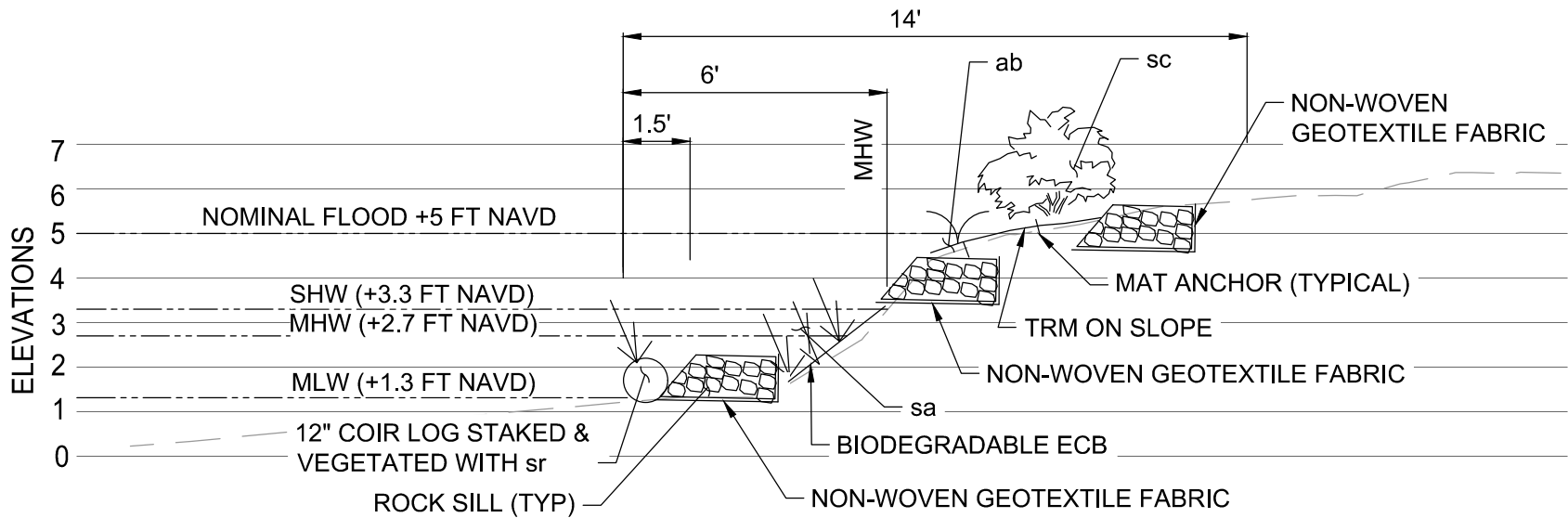
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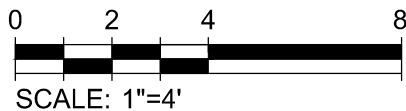
FIGURE 17

Bar Measures 1 inch


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S1A SOUTHERN LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'

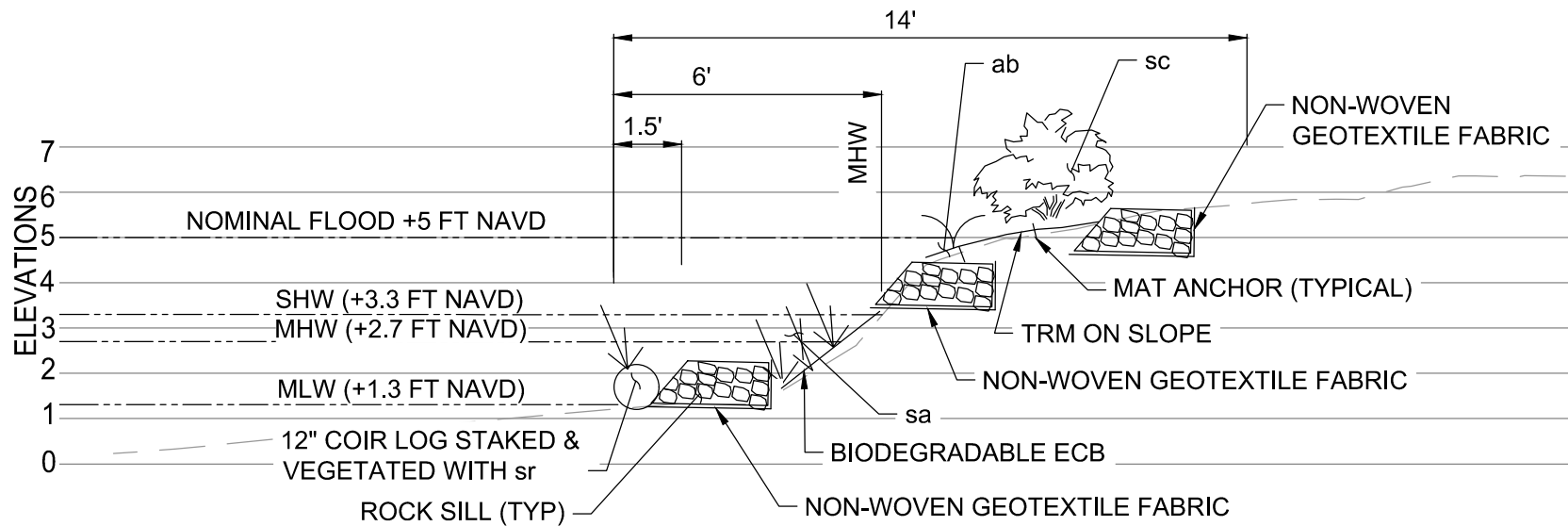


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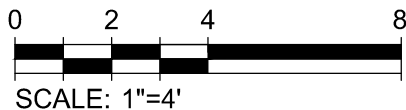
APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 18 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 18
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Bar Measures 1 inch


Copyright: Tetra Tech



S1A SOUTHERN LIVING SHORELINE CROSS SECTION
SCALE: 1" = 4'



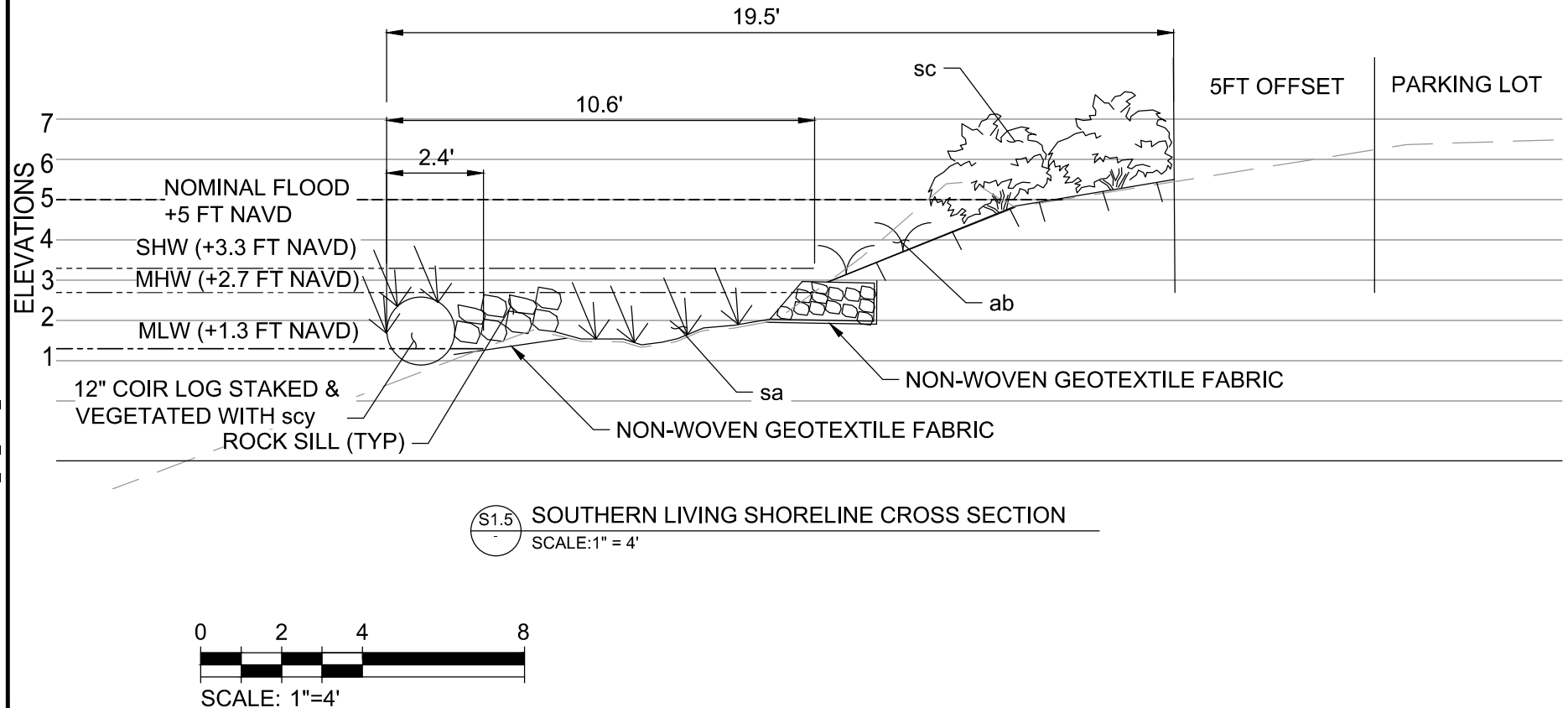
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APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 19 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 19
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Bar Measures 1 inch

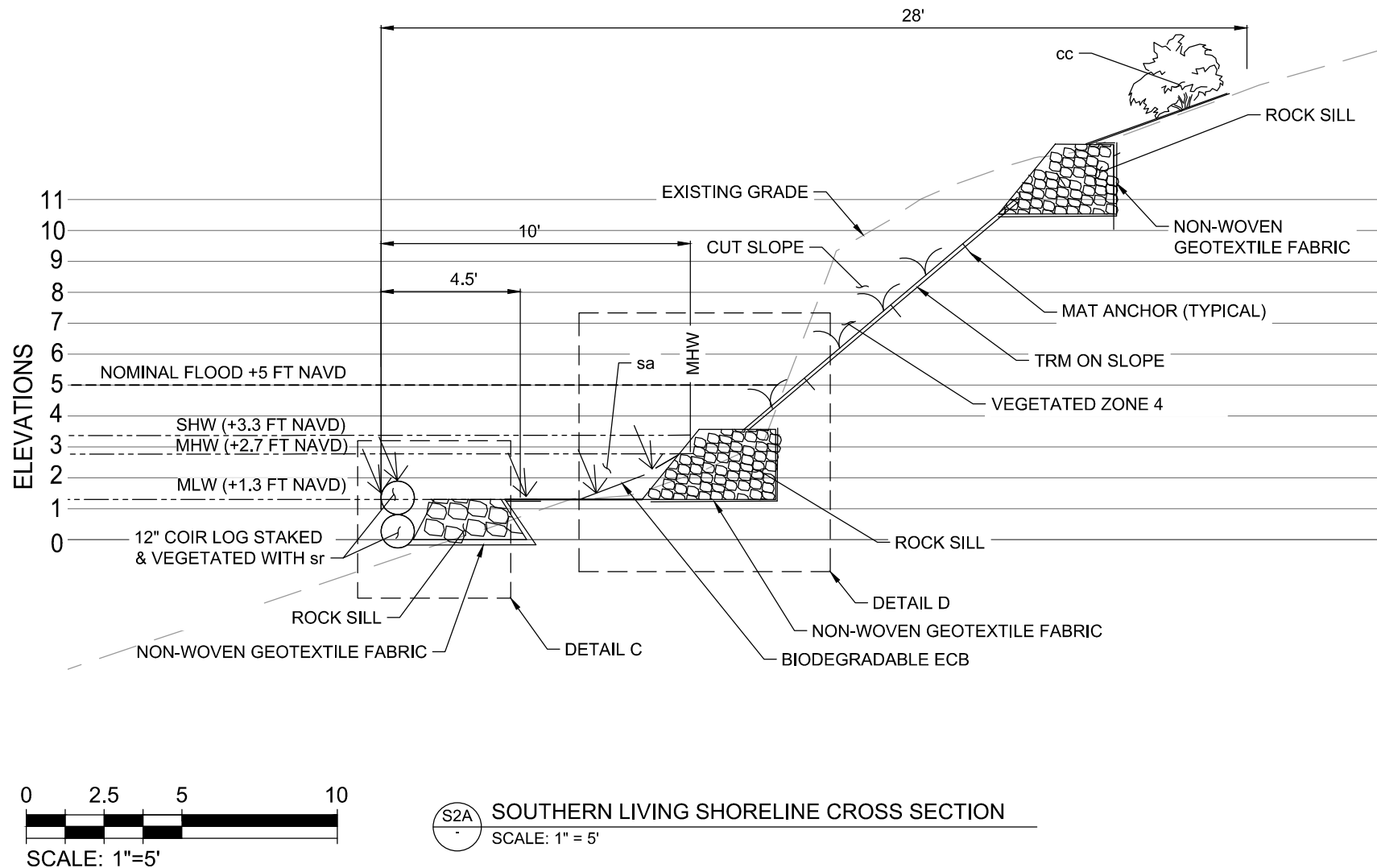
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APPLICANT: TETRA TECH	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
WATERWAY: MILL RIVER		LISTER PARK PROJECT	DATE: 01/13/2021
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY		LIVING SHORELINE SOUTHERN CROSS-SECTIONS	DESN: ES
COUNTY: NASSAU COUNTY, NEW YORK			FIGURE 20
NUMBER OF SHEETS: 20 OF 74			

Bar Measures 1 inch



S2A SOUTHERN LIVING SHORELINE CROSS SECTION
SCALE: 1" = 5'

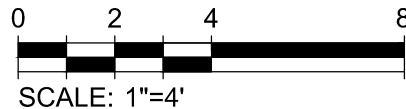
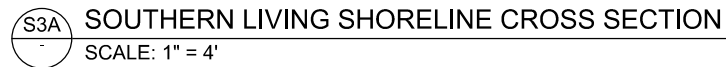
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APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 21 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 21
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Bar Measures 1 inch

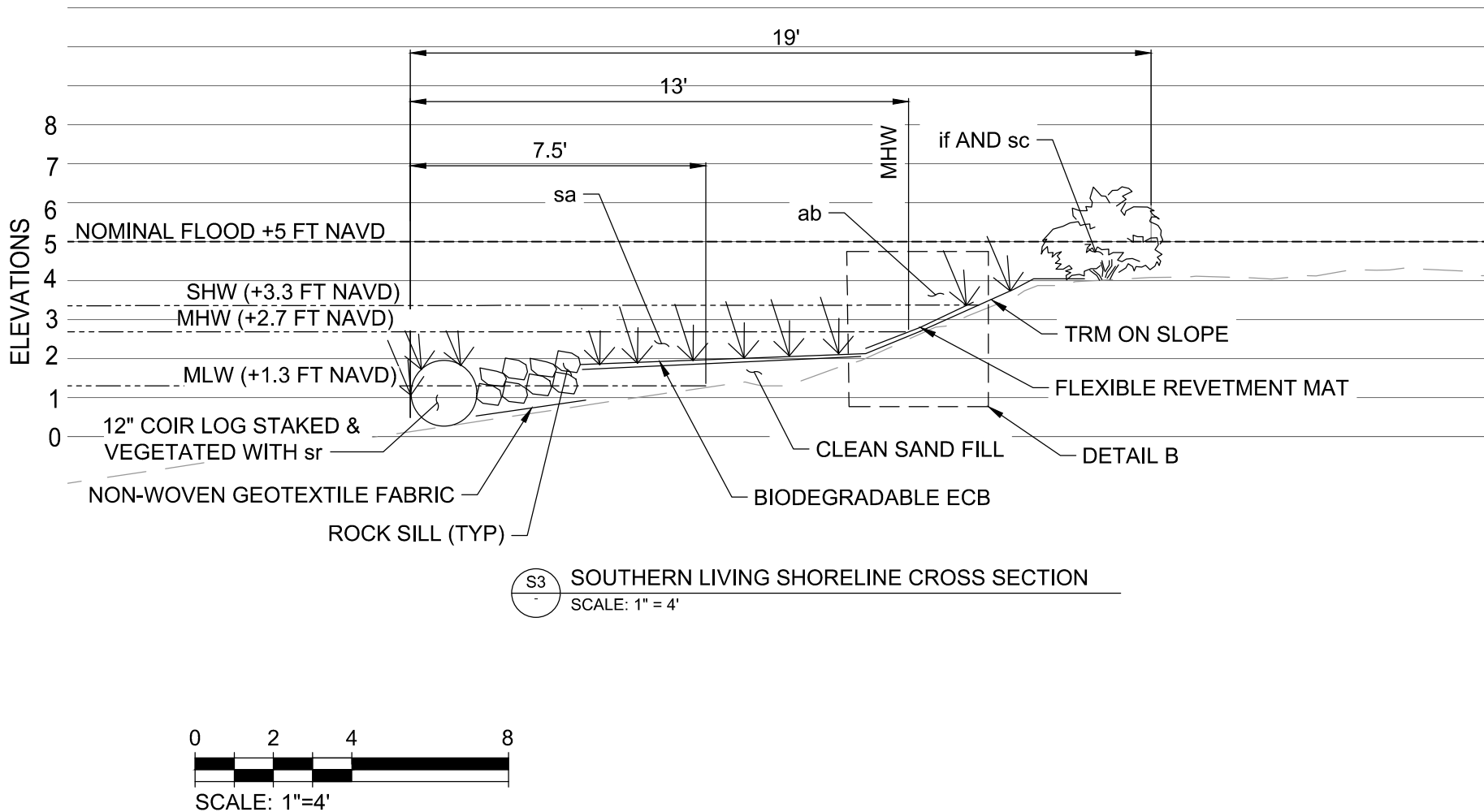


Bar Measures 1 inch



		<div> TETRA TECH</div> <div>www.tetrattech.com</div> <div>498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034</div>	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY		PROJ: 200-89763-18003	
APPLICANT: TETRA TECH			LISTER PARK PROJECT		DATE: 01/13/2021	
WATERWAY: MILL RIVER					DESN: ES	
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY					FIGURE 23	
COUNTY: NASSAU COUNTY, NEW YORK						
NUMBER OF SHEETS: 23 OF 74			LIVING SHORELINE			
			SOUTHERN CROSS-SECTIONS			

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APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 24 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

**LIVING SHORELINE
SOUTHERN CROSS-SECTIONS**

PROJ: 200-89763-18003

DATE: 01/13/2021

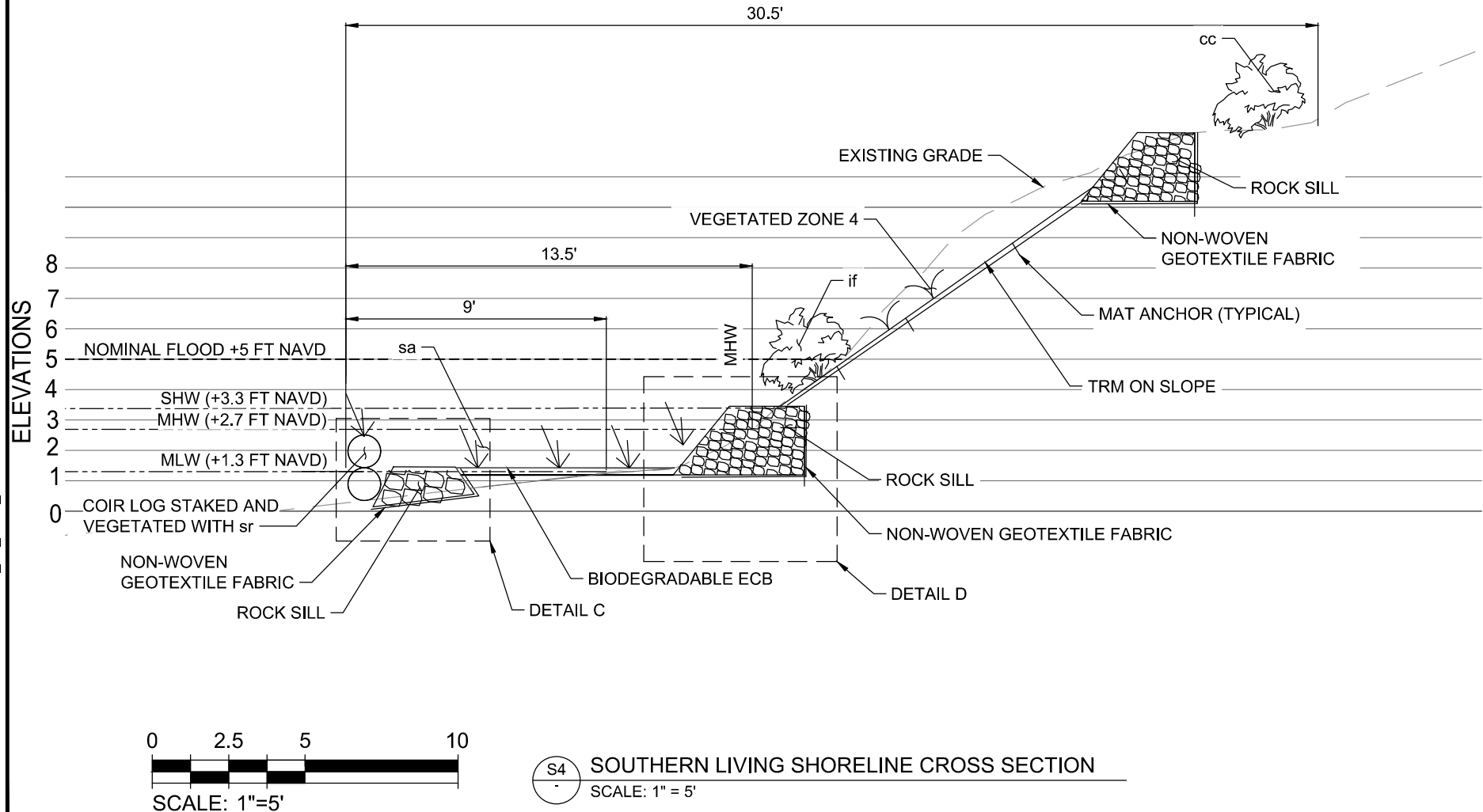
DESN: ES

FIGURE 24


Bar Measures 1 inch

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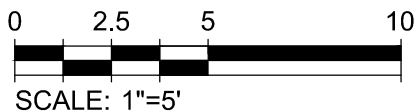
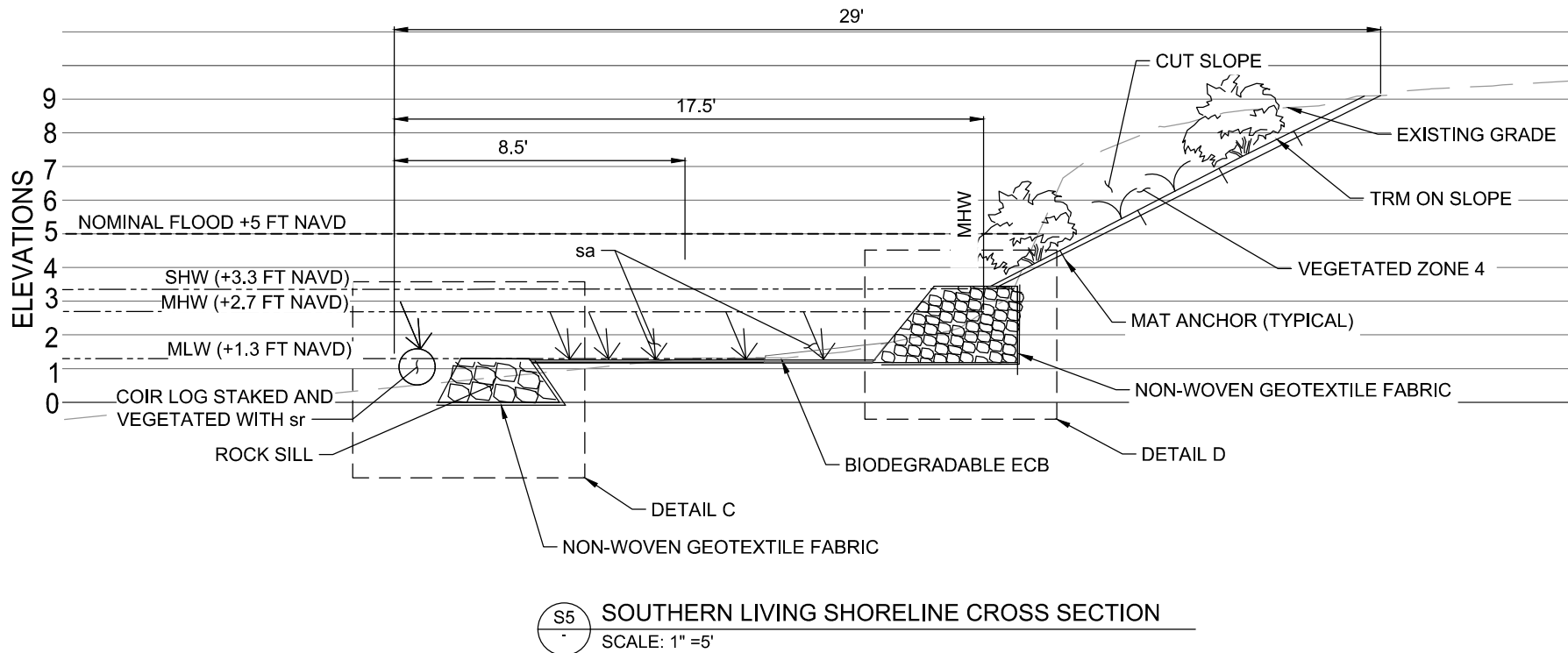
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S4 SOUTHERN LIVING SHORELINE CROSS SECTION
SCALE: 1" = 5'

APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 25 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 25
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Bar Measures 1 inch



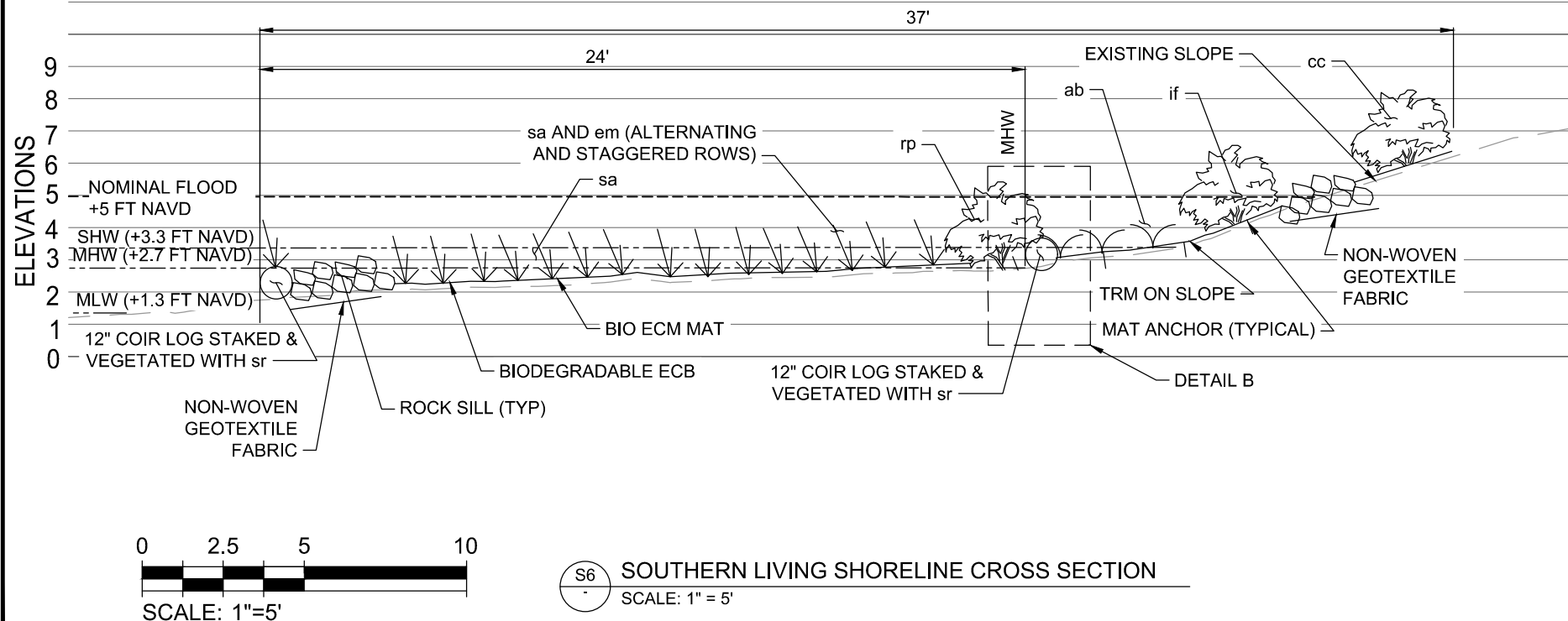
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APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 26 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 26
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Bar Measures 1 inch

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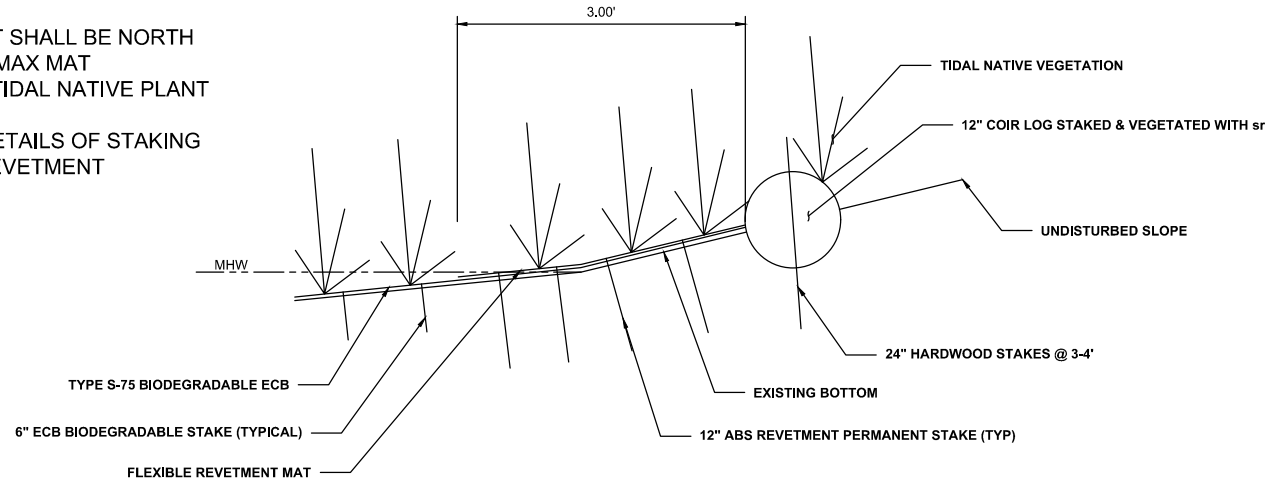
S6 SOUTHERN LIVING SHORELINE CROSS SECTION
SCALE: 1" = 5'

APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 27 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY LISTER PARK PROJECT LIVING SHORELINE SOUTHERN CROSS-SECTIONS	PROJ: 200-89763-18003 DATE: 01/13/2021 DESN: ES FIGURE 27
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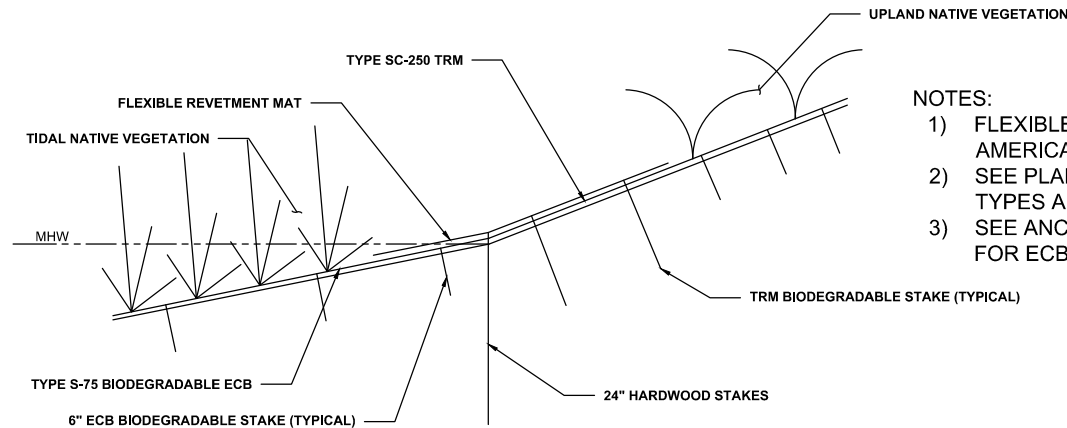
Bar Measures 1 inch

NOTES:

- 1) FLEXIBLE REVETMENT MAT SHALL BE NORTH AMERICAN GREEN SHOREMAX MAT
- 2) SEE PLANTING PLAN FOR TIDAL NATIVE PLANT TYPES AND SPACING
- 3) SEE ANCHOR PLAN FOR DETAILS OF STAKING FOR ECB AND FLEXIBLE REVETMENT

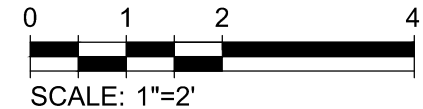


DETAIL A: REVETMENT MAT
SCALE: 1"=2'




NOTES:

- 1) FLEXIBLE REVETMENT MAT SHALL BE NORTH AMERICAN GREEN SHOREMAX MAT
- 2) SEE PLANTING PLAN FOR TIDAL NATIVE PLANT TYPES AND SPACING
- 3) SEE ANCHOR PLAN FOR DETAILS OF STAKING FOR ECB AND FLEXIBLE REVETMENT



DETAIL B: REVETMENT MAT
SCALE: 1"=2'

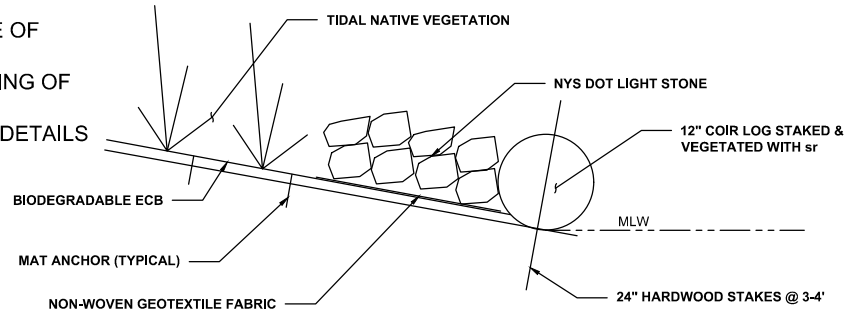
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APPLICANT: TETRA TECH	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
WATERWAY: MILL RIVER		LISTER PARK PROJECT	DATE: 01/13/2021
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY		LIVING SHORELINE DETAIL SECTIONS	DESN: ES
COUNTY: NASSAU COUNTY, NEW YORK			FIGURE 28
NUMBER OF SHEETS: 28 OF 74			

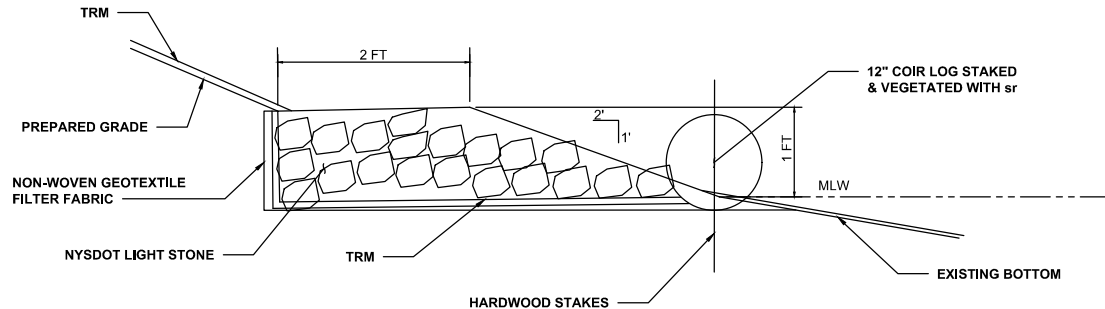
Bar Measures 1 inch

NOTES:

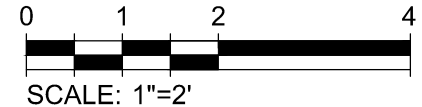
- 1) LOCATE AND ANCHOR COIR LOG SILT BARRIER BEFORE STARTING ANY OTHER WORK
- 2) FILTER FABRIC EXTENDS 6" BEYOND EDGE OF STONE
- 3) SEE PLANTING PLAN FOR TYPE AND SPACING OF MARSH PLANTS
- 4) SEE ANCHORING PLAN FOR ECB STAKING DETAILS



DETAIL C: SILT BARRIER AT CREATED WETLANDS
SCALE: 1"=2'



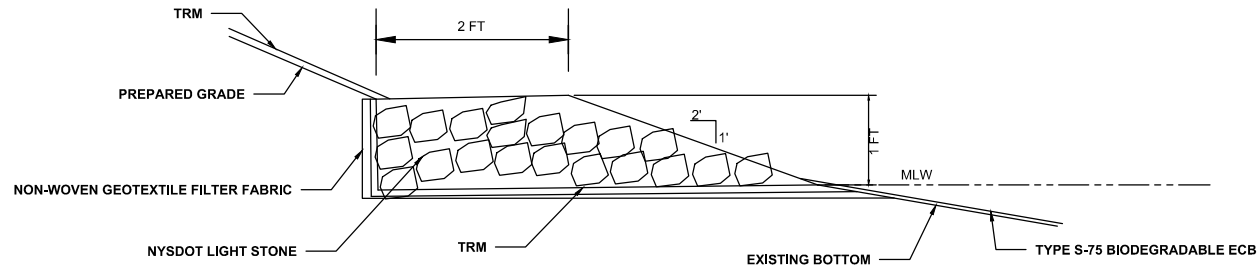
DETAIL D: STONE SILL
SCALE: 1"=2'



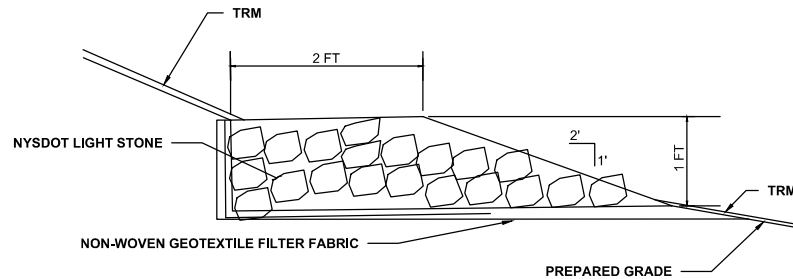
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APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 29 OF 74	<div data-bbox="638 1360 714 1432" data-label="Image"> </div> TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034
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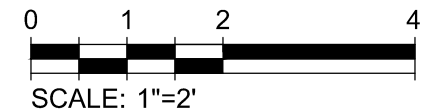
Bar Measures 1 inch




E DETAIL E: STONE SILL
SCALE: 1"=2'



TYP STONE SILL ON SLOPE TYP. SECTION
SCALE: 1"=2'

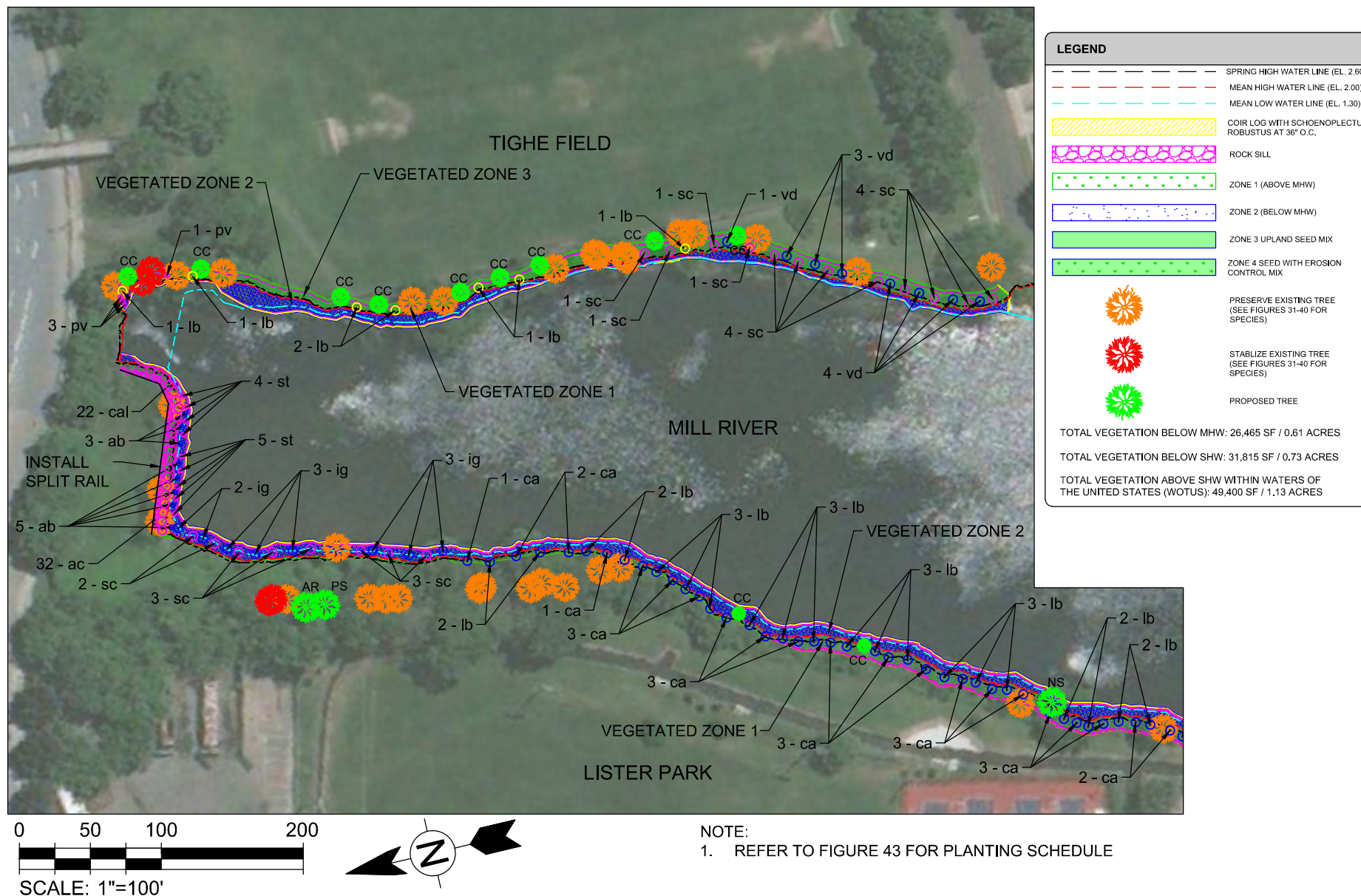



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APPLICANT: TETRA TECH	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
WATERWAY: MILL RIVER		LISTER PARK PROJECT	DATE: 01/13/2021
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY		LIVING SHORELINE DETAIL SECTIONS	DESN: ES
COUNTY: NASSAU COUNTY, NEW YORK			FIGURE 30
NUMBER OF SHEETS: 30 OF 74			

Bar Measures 1 inch

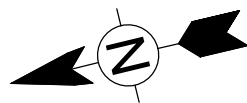
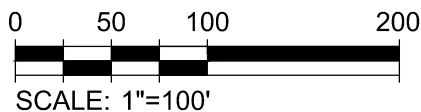
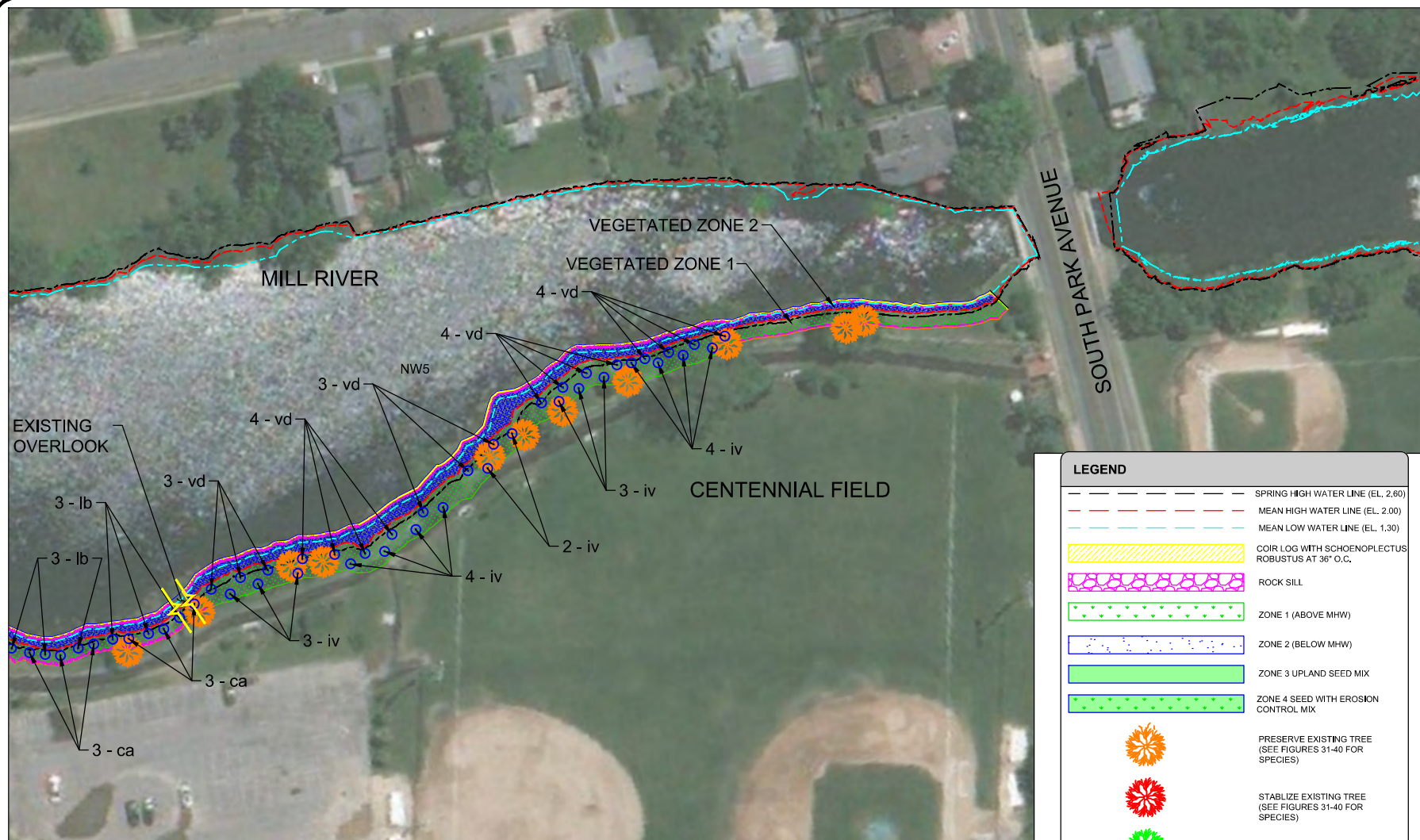
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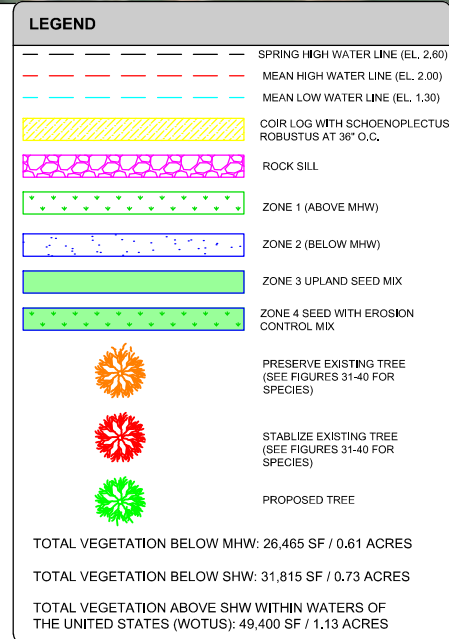
APPLICANT: TETRA TECH	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
WATERWAY: MILL RIVER		LISTER PARK PROJECT	DATE: 01/13/2021
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY		LIVING SHORELINE LANDSCAPE PLAN - NORTH	DESN: ES
COUNTY: NASSAU COUNTY, NEW YORK			FIGURE 41
NUMBER OF SHEETS: 41 OF 74			

Bar Measures 1 inch

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NOTE:
1. REFER TO FIGURE 43 FOR
PLANTING SCHEDULE - NORTH



APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 42 OF 74



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NEW YORK, NEW YORK 10018
PHONE: (646)576-4034

GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
LANDSCAPE PLAN - NORTH

PROJ: 200-89763-18003

DATE: 01/13/2021







DESN: ES

FIGURE 42

Bar Measures 1 inch

Copyright: Tetra Tech

PLANTING SCHEDULE - NORTH

Symbol	Quantity	Key	Scientific Name	Common Name	Size	Spacing	Condition	Notes
 Large Trees								
	1	NS	Nyssa sylvatica	Black Gum	3"-3-1/2" cal.	See Plan	B&B	Strong central leader
	1	AR	Acer rubrum 'Red Sunset'	Red Maple	3"-3-1/2" cal.	See Plan	B&B	Strong central leader
	1	PS	Prunus serotina	Black Cherry	12'-14'	See Plan	B&B	Strong central leader
 Small Trees								
	11	CC	Cercis canadensis	Redbud	8'-10' ht	See Plan	B&B	Full
 Shrubs								
	27	ca	Cornus amomomum	Silky Dogwood	3 Gallon	See Plan	Container	Full
	22	cal	Clethra alnifolia	Coastal Sweetpepperbush	3 Gallon	See Plan	Container	Full
	8	ig	Ilex glabra	Inkberry	3 Gallon	See Plan	Container	Full
	17	iv	Ilex verticillata	Winterberry	3 Gallon	See Plan	Container	Full
	32	lb	Lindera benzoin	Spicebush	3 Gallon	See Plan	Container	Full
	20	sc	Sambuca canadensis	Elderberry	3 Gallon	See Plan	Container	Full
	26	vd	Viburnum dentatum	Arrowwood Viburnum	3 Gallon	See Plan	Container	Full
Herbs/Grasses								
	9	st	Schoenoplectus tabernaemontani	Soft-stem Bulrush	Plug	See Plan	Container	Full
	8	ab	Ammophila breviligulata (fern)	Cape' American Beachgrass	Plug	See Plan	Container	Full
	32	ac	Aquilegia canadensis	Red columbine	Quart	See Plan	Container	Full
	782	sr	Schoenoplectus robustus	Saltmarsh Bulrush	Plug	See Plan	Container	Full
	4	pv	Panicum virgatum	Switchgrass	Plug	36" O.C.	Container	Full
 Zone 1 (above MHW) Plugs 36" O.C. Equal mix of the following:								
			Amophila breviligulata fern	Cape' American Beachgrass		See Plan		
			Panicum virgatum	Switchgrass		See Plan		
			Solidago sempervirens	Seaside Goldenrod		See Plan		
 Zone 2 (below MHW) Plugs 36" O.C. Equal mix of the following:								
			Iris versicolor	Blueflag Iris		See Plan		
			Juncus roemerianus	Needlerush		See Plan		
			Schoenoplectus robustus	Saltmarsh Bulrush		See Plan		
 Zone 3 Upland Seed Mix								
			Bromus inermis	Smooth Brome grass		See Plan		
			Medicago sativa	Alfalfa		See Plan		

APPLICANT: TETRA TECH

WATERWAY: MILL RIVER

TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY

COUNTY: NASSAU COUNTY, NEW YORK

NUMBER OF SHEETS: 43 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

**LIVING SHORELINE
PLANTING SCHEDULE - NORTH**

PROJ: 200-89763-18003

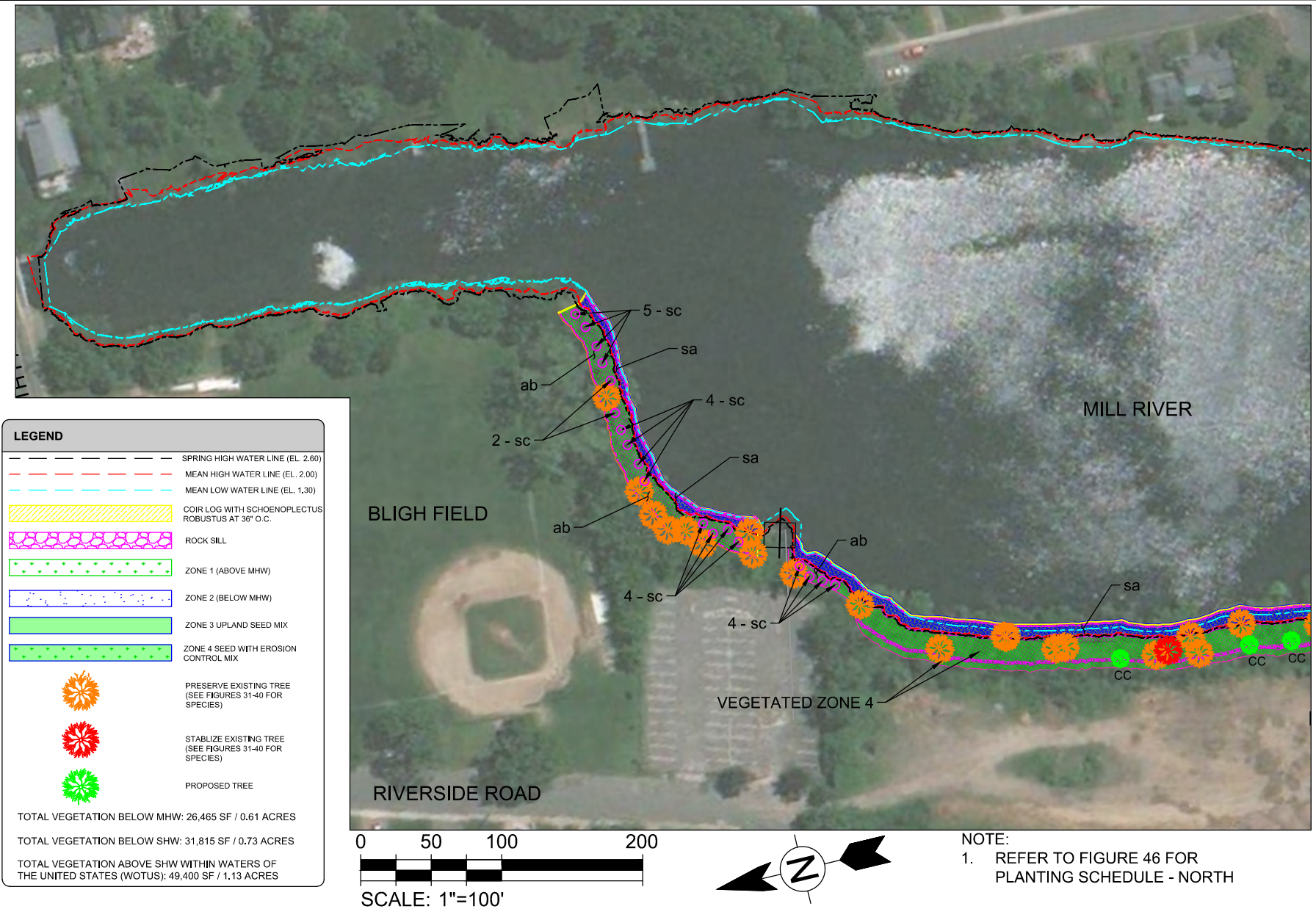
DATE: 01/13/2021

DESN: ES

FIGURE 43

Bar Measures 1 inch

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APPLICANT: TETRA TECH
 WATERWAY: MILL RIVER
 TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
 COUNTY: NASSAU COUNTY, NEW YORK
 NUMBER OF SHEETS: 44 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
 LANDSCAPE PLAN - SOUTH

PROJ: 200-89763-18003

DATE: 01/13/2021

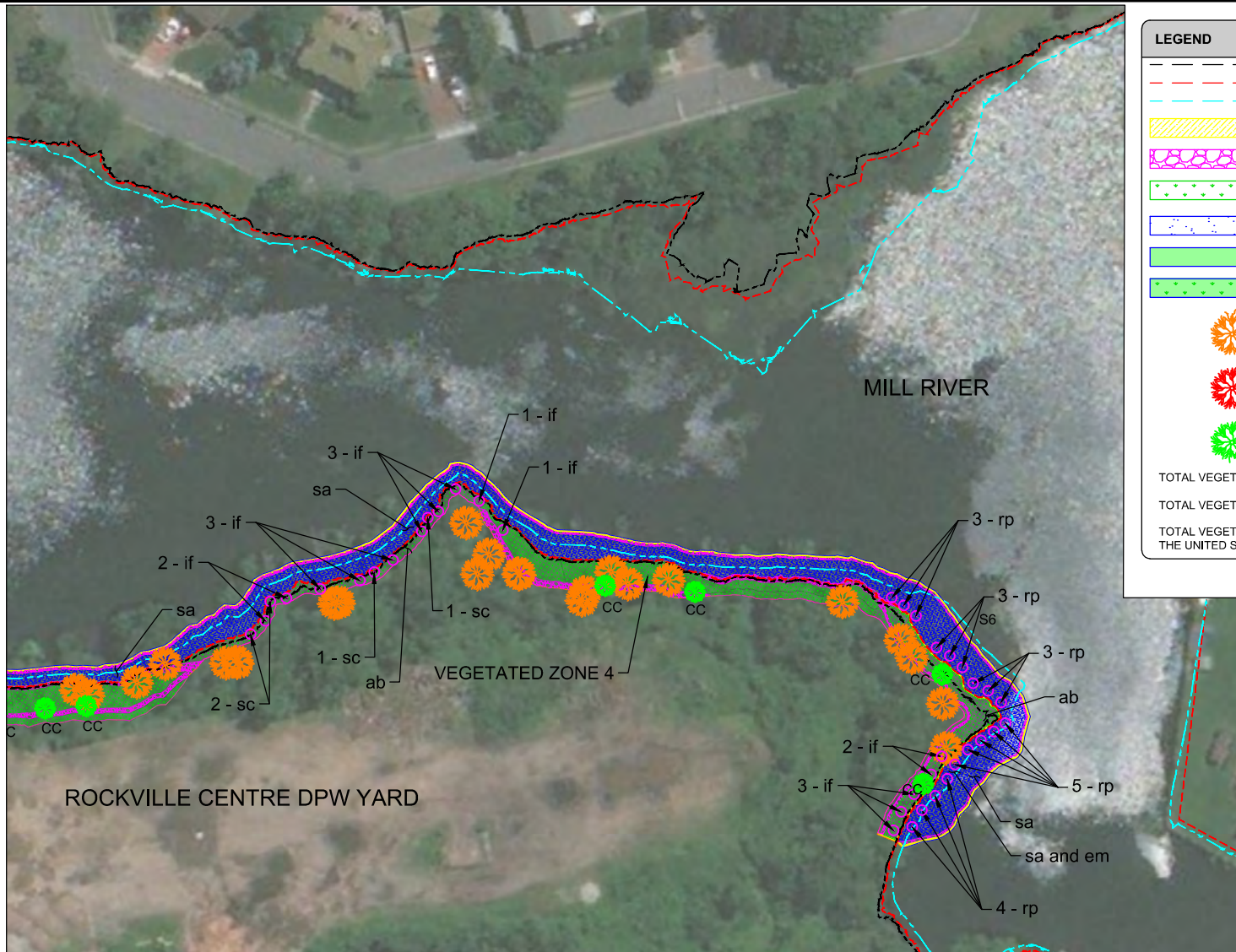
DESN: ES

FIGURE 44

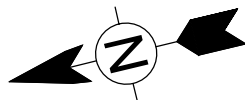
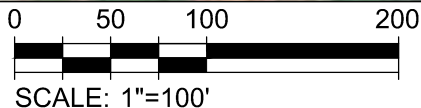
Bar Measures 1 inch

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LEGEND	
---	SPRING HIGH WATER LINE (EL. 2.60)
- - -	MEAN HIGH WATER LINE (EL. 2.00)
- . - . -	MEAN LOW WATER LINE (EL. 1.30)
[Hatched Box]	COIR LOG WITH SCHOENOPLECTUS ROBUSTUS AT 36" O.C.
[Pink Box]	ROCK SILL
[Green Box with Stars]	ZONE 1 (ABOVE MHW)
[Blue Box with Stars]	ZONE 2 (BELOW MHW)
[Solid Green Box]	ZONE 3 UPLAND SEED MIX
[Green Box with Stars]	ZONE 4 SEED WITH EROSION CONTROL MIX
[Orange Tree Symbol]	PRESERVE EXISTING TREE (SEE FIGURES 31-40 FOR SPECIES)
[Red Tree Symbol]	STABILIZE EXISTING TREE (SEE FIGURES 31-40 FOR SPECIES)
[Green Tree Symbol]	PROPOSED TREE
TOTAL VEGETATION BELOW MHW: 26,465 SF / 0.61 ACRES	
TOTAL VEGETATION BELOW SHW: 31,815 SF / 0.73 ACRES	
TOTAL VEGETATION ABOVE SHW WITHIN WATERS OF THE UNITED STATES (WOTUS): 49,400 SF / 1.13 ACRES	




NOTE:
1. REFER TO FIGURE 46 FOR
PLANTING SCHEDULE - NORTH

APPLICANT: TETRA TECH WATERWAY: MILL RIVER TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY COUNTY: NASSAU COUNTY, NEW YORK NUMBER OF SHEETS: 45 OF 74	 TETRA TECH www.tetrattech.com 498 SEVENTH AVENUE, 15TH FLOOR NEW YORK, NEW YORK 10018 PHONE: (646)576-4034	GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY	PROJ: 200-89763-18003
		LISTER PARK PROJECT	DATE: 01/13/2021
		LIVING SHORELINE LANDSCAPE PLAN - SOUTH	DESN: ES
			FIGURE 45

Bar Measures 1 inch

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PLANTING SCHEDULE - SOUTH

Symbol	Quantity	Key	Scientific Name	Common Name	Size	Spacing	Condition	Notes
	Small Trees							
	9	CC	Cercis canadensis	Redbud	8'-10' ht	See Plan	B&B	Full
	Shrubs							
	18	rp	Rosa palustris	Swamp Rose	3 Gallon	See Plan	Container	Full
	23	sc	Sambuca canadensis	Elderberry	3 Gallon	See Plan	Container	Full
	15	if	Iva frutescens	High Tide Bush	2 Gallon	See Plan	Container	Full
	Herbs/Grasses							
	*	sa	Spartina alterniflora	Bayshore Smooth Cordgrass	1 Gallon	5' O.C.	Container	Full
	*	ab	Ammophila breviligulata (fern)	Cape' American Beachgrass	Plug	18" O.C.	Container	Full
	*	em	Eupatorium maculatum	Spotted Joe Pye Weed	Plug	24" O.C.	Container	Full
	564	sr	Schoenoplectus robustus	Saltmarsh Bulrush	Plug	See Plan	Container	Full
	Steep Embankments							
	Zone 4	Seed with Erosion Control Mix (Refer to Specifications)						

APPLICANT: TETRA TECH
 WATERWAY: MILL RIVER
 TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
 COUNTY: NASSAU COUNTY, NEW YORK
 NUMBER OF SHEETS: 46 OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

LIVING SHORELINE
 PLANTING SCHEDULE - SOUTH

PROJ: 200-89763-18003

DATE: 01/13/2021

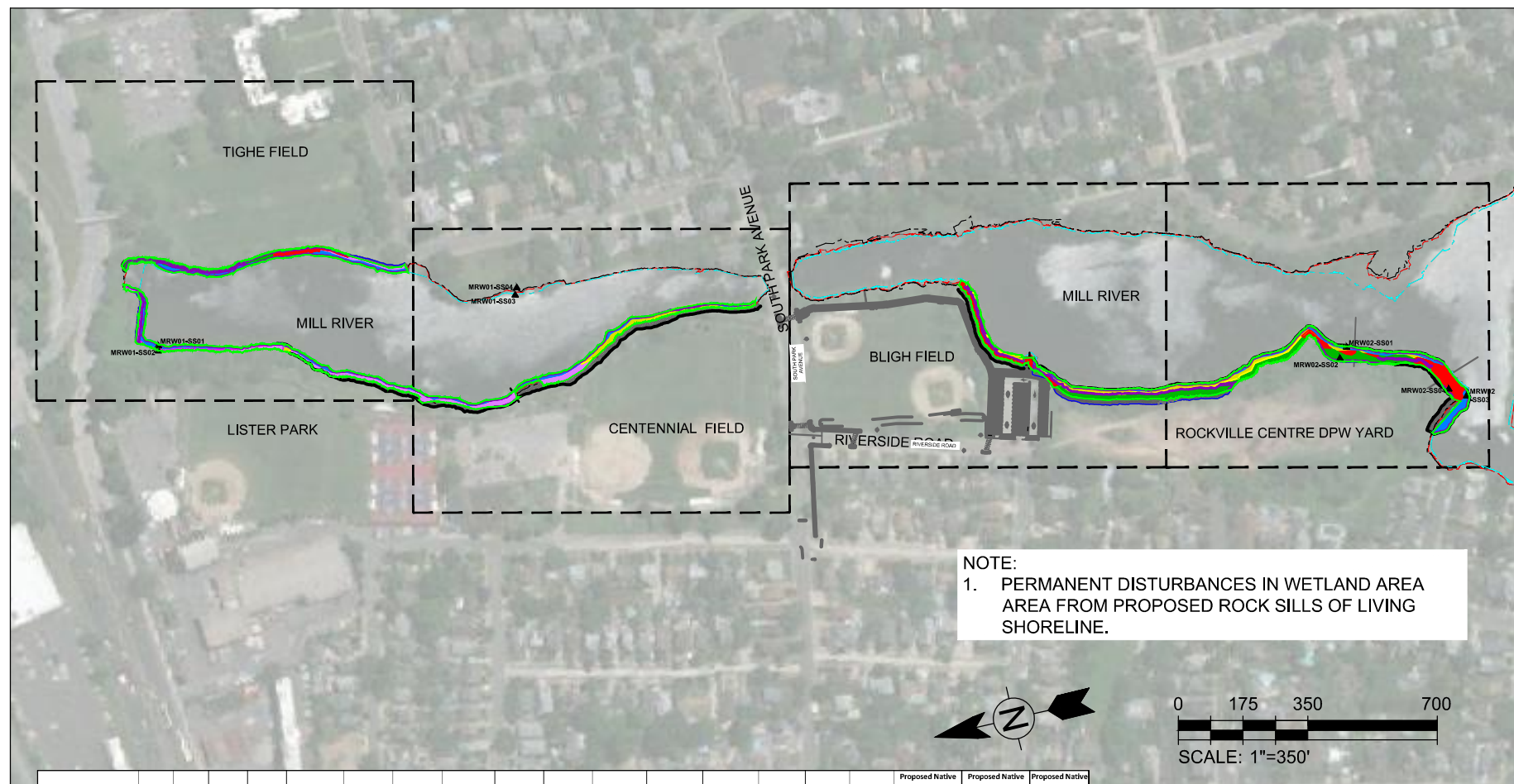
DESN: ES

FIGURE 46

Bar Measures 1 inch

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Report Classification (Editoring)	Map Color	Cowardin Class	Total Area Below SHW	Total Area within Project	Permanent Disturbance (Below MHW)	Permanent Disturbance (Below SHW)	Total Permanent Disturbance	Temporary Planting Disturbance (Below MHW)	Temporary Planting Disturbance (Below SHW)	Total Temporary Planting Disturbance	Temporary Construction Disturbance (Below MHW)	Temporary Construction Disturbance (Below SHW)	Total Temporary Construction Disturbance	Total Disturbance Below MHW	Total Disturbance Below SHW	Total Disturbance	Proposed Native Wetland Vegetation Where None Exists or Invasive Exists (Below MHW)	Proposed Native Wetland Vegetation Where None Exists or Invasive Exists (Below SHW)	Proposed Native Wetland Vegetation Where None Exists or Invasive Exists
Floodplain forest (Vegetative)	Green	E2/T01	0.09 Acres	0.33 Acres	0.03 Acres	0.02 Acres	0.06 Acres	0.04 Acres	0.07 Acres	0.26 Acres	0 Acres (All Planting)	0 Acres (All Planting)	0.01 Acres	0.05 Acres	0.09 Acres	0.33 Acres	0 Acres	0 Acres	0 Acres
Brackish Intertidal Shore (Non-Vegetative)	Yellow	E2/US1	0.26 Acres	0.26 Acres	0.02 Acres	0.08 Acres	0.08 Acres	0.18 Acres	0.21 Acres	0.21 Acres	0.02 Acres	0.02 Acres	0.02 Acres	0.22 Acres	0.26 Acres	0.26 Acres	0.18 Acres	0.21 Acres	0.21 Acres
Tidal River (Non-Vegetative)	Blue	E1/UB1	0.36 Acres	0.36 Acres	0.10 Acres	0.10 Acres	0.10 Acres	0.22 Acres	0.23 Acres	0.23 Acres	0.03 Acres	0.03 Acres	0.03 Acres	0.35 Acres	0.36 Acres	0.36 Acres	0.22 Acres	0.23 Acres	0.23 Acres
Phragmites (Invasive)	Red	E2/EM5	0.12 Acres	0.24 Acres	0.01 Acres	0.02 Acres	0.03 Acres	0.08 Acres	0.1 Acres	0.21 Acres	0.01 Acres	0.01 Acres	0.04 Acres	0.09 Acres	0.12 Acres	0.24 Acres	0.08 Acres	0.1 Acres	0.21 Acres
Salt shrub (Vegetative)	Pink	E2/SS1	0.17 Acres	0.25 Acres	0.01 Acres	0.01 Acres	0.01 Acres	0.09 Acres	0.12 Acres	0.20 Acres	0.01 Acres	0.01 Acres	0.04 Acres	0.11 Acres	0.17 Acres	0.25 Acres	0 Acres	0 Acres	0 Acres
TOTAL AREAS	-	-	1.00 Acres	1.44 Acres	0.15 Acres	0.18 Acres	0.23 Acres	0.61 Acres	0.73 Acres	1.13 Acres	0.06 Acres	0.09 Acres	0.10 Acres	0.82 Acres	1.00 Acres	1.44 Acres	0.48 Acres	0.34 Acres	0.65 Acres

NOTE:
1. PERMANENT DISTURBANCES IN WETLAND AREA FROM PROPOSED ROCK SILLS OF LIVING SHORELINE.



0 175 350 700
SCALE: 1"=350'

APPLICANT: TETRA TECH
WATERWAY: MILL RIVER
TOWNSHIP: VILLAGE OF ROCKVILLE CENTRE, NY
COUNTY: NASSAU COUNTY, NEW YORK
NUMBER OF SHEETS: 50B OF 74



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GOSR - VILLAGE OF ROCKVILLE CENTRE, EAST ROCKAWAY, NY

LISTER PARK PROJECT

OVERALL WETLAND DELINEATION MAP
(PROPOSED CONDITIONS)

PROJ: 200-89763-18003

DATE: 01/13/2021

DESN: ES

FIGURE 50B

Bar Measures 1 inch