



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

September 14, 2020

Longview Civic Association Inc.
c/o Bayland Consultants & Designers
Atten: John Heinrichs
7455 New Ridge Rd, Ste T
Hanover, MD 21076

Re: Agency Interest Number: 166515
Tracking Number: 202060219
Tidal Authorization Number: 20-WQC-0021

Dear Longview Civic Association Inc.:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPPG); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by the BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPPG requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

You should not begin any work until you have obtained all necessary State, local, and federal authorizations. Please contact Heather Hepburn at 410-537-3789 and heather.hepbrun1@maryland.gov with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Danielle Spendiff".

Danielle Spendiff, Chief
Western Region
Tidal Wetlands Division



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION



20-WQC-0021

EFFECTIVE DATE: **September 14, 2020**
EXPIRATION DATE: **September 13, 2023**
CERTIFICATION HOLDER: **Longview Civic Association Inc.**
ADDRESS: **864 Doris Drive**
Arnold, Maryland 21012
PROJECT LOCATION: **851 Doris Drive**
Arnold, MD 21012
Magothy River in Anne Arundel

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH §9-313 THROUGH §9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE WATER AND SCIENCE ADMINISTRATION (“ADMINISTRATION”) HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN STATE TIDAL WETLANDS LICENSE NUMBER 20-WL-0143 (“LICENSE”) WILL NOT VIOLATE MARYLAND’S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION AND WITH ALL TERMS AND CONDITIONS OF THE LICENSE. A COPY OF THE LICENSE, INCLUDING APPROVED PROJECT DRAWINGS AND OTHER ATTACHMENTS, IS ATTACHED HERETO AND IS HEREBY INCORPORATED BY REFERENCE.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS.

THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

SPECIAL CONDITIONS

- A. The terms and conditions of Tidal Wetlands License No. **20-WL-0143** are hereby incorporated, by reference, into this Water Quality Certification. The Certification Holder shall comply with these conditions to ensure that the authorized activities will not result in a violation of the State's water quality standards.

GENERAL CONDITIONS

- A. The proposed project shall be constructed in a manner which will not violate Maryland's Water Quality Standards as set forth in COMAR 26.08.02. The applicant is to notify this Department ten (10) days prior to commencing work. Verbal notification is to be followed by written notice within ten (10) days.
- B. The Maryland Department of the Environment has determined that the proposed activities comply with, and will be conducted in a manner consistent with the State's Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended.
- C. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
- D. The Certification Holder shall ensure the proposed project shall be constructed in accordance with the authorized plan and any authorized revisions.
- E. The Certification Holder shall ensure that all fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
- F. The Certification Holder shall notify the Water and Science Administration, Tidal Wetlands Division, in writing, upon transferring property ownership or responsibility for compliance with these conditions to another person. The new owner/operator shall request, in writing, transfer of this Water Quality Certification to his/her name.
- G. The Certification Holder shall allow representatives of the Maryland Department of the Environment to inspect the authorized activities.
- H. The Certification Holder shall ensure that a copy of this Permit, including the approved plans, is available at the site until the authorized work is complete.
- I. The Certification does not relieve the Certification holder from the responsibility of obtaining all necessary federal, State, and local government authorizations.
- J. The Certification Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certification does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

Failure to comply with these conditions shall constitute reason for suspension or revocation of the Water Quality Certification, and legal proceedings may be instituted against the Certification Holder in accordance with the Annotated Code of Maryland. In granting this certification, the Department reserves the right to inspect the operations and records regarding this project at anytime

CERTIFICATION APPROVED



D. Lee Currey, Director
Water and Science Administration

9/18/2020

Date

Tracking Number: 202060219
Agency Interest Number: 166515

Effective Date: September 14, 2020

Enclosure: Executed Tidal Wetlands License No. 20-WL-0143 with all plans and attachments.

cc: WMA Inspection & Compliance Program



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works
Wetlands Administration
Post Office Box 1510 Annapolis, Maryland 21404
410-260-7791

Larry Hogan
Governor

Nancy K. Kopp
Treasurer

Peter Franchot
Comptroller

John T. Gontrum, Esq.
Executive Secretary

WETLANDS LICENSE NO. 20-0143

LONGVIEW CIVIC ASSOCIATION INC.

The Maryland Board of Public Works authorizes you to:

- I. Remove sections of the existing bulkhead and stone groins.
- II. Construct 35 feet of stone armoring 9 feet channelward of the mean high water line to reinforce a section of bulkhead.
- III. Construct a 97-foot long by 23-foot wide curved stone groin, a 90-foot long by 23-foot wide curved stone groin, fill and grade with 843 cubic yards of sand along 175 feet of eroding shoreline; plant with approximately 6,032 square feet of marsh vegetation, fill and grade approximately 2,400 square feet with sand fill below the proposed mean low water; and create a 50-foot long by 10-foot wide soft kayak launch, all extending a maximum of 92 feet channelward of the mean high water line.

Magothy River at the community area at the end of Doris Drive, Arnold, Anne Arundel County, Maryland

Issuance of this Tidal Wetlands License constitutes the State's determination that the authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended [16 U.S.C. §1456]. Accordingly, the State concurs with the Licensee's certification in the Joint Permit Application that the project complies with and will be conducted in a manner consistent with the Maryland CZMP.

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU
COMPLY WITH THE FOLLOWING SPECIAL CONDITION(S):**

- A. Licensee shall have all work proposed above the mean high water line (MHWL) reviewed and authorized by the Anne Arundel County Department of Planning and Zoning.
- B. Marsh establishment:
 - a. Licensee shall use clean substrate fill material, no more than 10% of which shall pass through a standard number 100 sieve.
 - b. The marsh establishment area shall be planted within one year following completion of the filling operation.

- c. The marsh establishment project shall be maintained as a wetland, with non-nuisance species' aerial coverage of at least 85% for three consecutive years. If 85% coverage is not attained, the reasons for failure shall be determined, corrective measures shall be taken, and the area shall be replanted.
 - d. If the fill is graded hydraulically, Licensee shall use a turbidity curtain around the perimeter of the instream work.
 - e. If the existing bank is to be cleared or graded, Licensee shall obtain any required approvals of an erosion and sediment control plan from the applicable sediment and erosion control agency; and Licensee shall perform all work under and in accordance with the Critical Area requirements of the local jurisdiction in the form of an approved Buffer Management Plan..
- C. Licensee shall accept the terms of the attached marsh maintenance plan by signing and returning the standard plan to the Maryland Department of the Environment's (MDE) Water and Science Administration, Tidal Wetlands Division, prior to commencement of any work authorized under this License. If the Licensee wishes to propose an alternative marsh maintenance plan, the alternative plan must be submitted to and approved by the Tidal Wetlands Division, Water and Science Administration, prior to commencement of any work authorized under this License. Any alternative plan must provide assurances of success that are at least equivalent to those of the standards plan, in terms of the extent of native marsh plant coverage, elimination of invasive species and timeframe for plant establishment.
- D. Licensee shall submit photographs of an annual basis for the first five growing seasons to MDE's Tidal Wetlands Division, Water and Science Administration, in order to document the success of the project in terms of the extent of native marsh plant coverage. Photographs shall be taken from at least two directions, as necessary to fully depict the living shoreline.
- E. Licensee shall not stockpile any material in State or private tidal wetlands.
- F. If Licensee uses a turbidity curtain, the Licensee shall deploy and maintain the turbidity curtain tightly around and channelward of the project area prior to any excavation and backfilling along the shoreline through completion of any excavation and backfilling along the shoreline.

**THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF
YOU COMPLY WITH THE FOLLOWING STANDARD CONDITIONS:**

1. Licensee shall conduct the authorized work in accordance with the plans and drawings dated April 6, 2020, which are hereby incorporated into this License.
Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.
2. This License constitutes Maryland's authorization to conduct the authorized work under the State Tidal Wetlands Law. This License does not bestow any other federal, State, or local government authorization.
3. Licensee shall have all proposed work above Mean High Water reviewed and authorized by the local county Department of Planning and Zoning or applicable agency.
4. Licensee shall notify MDE's Inspection and Compliance Program by phone (410-537-3510) AND in writing (MDE, Inspection and Compliance Program, 1800 Washington Boulevard, Baltimore, MD 21230) of the following:

- start date at least five business days before beginning work; and
 - completion date no more than five business days after project completion.
5. If MDE has issued a Water Quality Certification with respect to the authorized work, Licensee shall comply with all conditions of that certification.
 6. Licensee shall conduct the authorized work in accordance with Critical Area Commission requirements. This License does not authorize disturbance in the Buffer. If authorized work will disturb the Buffer, Licensee shall have a Commission-approved or locally-approved Buffer Management Plan before beginning the authorized work.
“Buffer” means the 100-foot Critical Area Buffer and any expanded area that is immediately landward of the mean high-water line of the tidal waters or is immediately landward of tidal wetlands. The Buffer includes expanded contiguous area if the contiguous area includes steep slopes, hydric soil, or highly erodible soil, or otherwise meets the criteria of COMAR 27.01.09.01.E(7). “Disturbance” means any alteration or change to the land including any amount of clearing. Clearing includes vegetation removal, grading, and construction activity.
 7. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
 8. Licensee may not stockpile material in State tidal wetlands/State tidal waters of the U.S.
 9. Licensee shall allow unfettered public use of State wetlands/State tidal waters of the U.S.
 10. This License does not transfer a property interest of the State.
 11. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
 12. Licensee shall ensure that structures (for example, piers and piles) removed from the site are taken to an upland disposal facility approved by MDE’s Inspection and Compliance Program.
 13. If the authorized work impacts more than 5,000 square feet or includes 100 or more cubic yards of fill, Licensee shall conduct the authorized work in accordance with a locally-approved Soil Erosion and Sediment Control Plan.
 14. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by email at *MDE.MCLB@maryland.gov* or by accessing the *Maryland Department of the Environment, Environmental Boards webpage*.
 15. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.
 16. This License is granted only to the Licensee. Licensee may transfer the license only with written approval from the Board of Public Works. If the Board of Public Works approves the transfer, the transferee is subject to all License terms and conditions.
 17. Licensee shall indemnify, defend, and save harmless the State of Maryland, its officials, officers, and employees from and against any and all liability, suits, claims, and actions of whatever kind, caused by or arising from, the work this License authorizes.
 18. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion.

19. This License expires September 2, 2023. If the authorized work is not completed by the expiration date, all activity must stop.

Note: A three-year license may be renewed for one additional three-year term if the Licensee requests an extension before the expiration date and all other conditions are met. A six-year license may not be renewed; instead Licensee must reapply to MDE for a new license. Contact the Board of Public Works to determine if this License may be extended.
Board of Public Works: 410-260-7791

By the authority of the Board of Public Works:

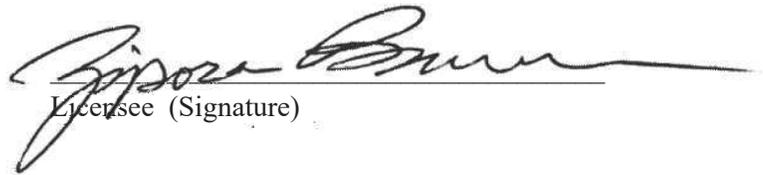
 Digitally signed by
John T. Gontrum
Date: 2020.09.11
17:24:58 -04'00'

John T. Gontrum
Executive Secretary

Effective Date: September 2, 2020
Approved as: Secretary's Agenda Item 3
Board of Public Works Meeting Date: September 2, 2020

I accept this License and all its conditions.

9/8/2020
Date


Licensee (Signature)

Zipora Brown
Name (Printed)

President, Longview Civic Association, Inc.
Title

zipbrown@gmail.com
jheinrichs@baylandinc.com
Email (to receive completed license)



ANNE ARUNDEL COUNTY ADC MAP COORDINATES:
 MAP 15 GRID J-7

MAP COPYRIGHT KAPPA MAP GROUP LLC, (800) 829-6277
 PERMITTED USE NUMBER 031205BJE

LONGVIEW ON THE MAGOTHY COASTAL RESILIENCY PROJECT

ANNE ARUNDEL COUNTY, MD

APPL. BY: LONGVIEW CIVIC ASSOCIATION
 MS. ZIPORA BROWN, PRESIDENT

VICINITY MAP

SHEET 1 OF 6

20-WL-0143
 202060219
 166515
 4/6/2020
 1 of 6
 HH



(IN FEET)
 1 INCH = 2000 FEET

Bay and
 Consultants & Designers, Inc.
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401
 Hanover, Maryland 21076 Fax: (410) 694-9405
 www.bayandinc.com

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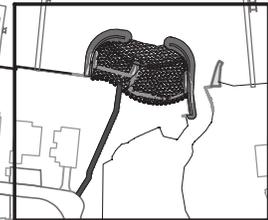


MAGOTHY RIVER
FLOOD
EBB

MANOR RD.

RIVERSIDE DR.

SHEET 3



PAT LN.

SPRIGGS POND
FLOOD
EBB

DORIS DR.

CENTURY VISTA DR.

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202060219
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4/6/2020
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HH

LONGVIEW ON THE MAGOTHY COASTAL RESILIENCY PROJECT

ANNE ARUNDEL COUNTY, MD

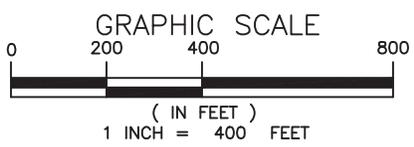
APPL. BY: LONGVIEW CIVIC ASSOCIATION
MS. ZIPORA BROWN, PRESIDENT

KEY SHEET

SHEET 2 OF 6

NOTES:

1. BASEMAP TAKEN FROM ANNE ARUNDEL COUNTY 2016 PLANIMETRICS AND 2017 IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MLW.
3. TIDAL RANGE IS ~0.97 FEET.
4. TOPOGRAPHIC AND HYDROGRAPHIC SURVEY WAS PERFORMED BY BAYLAND ON 01/29/2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND ARE SUBJECT TO CHANGE DURING THE PERMIT PROCESS. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.
6. NO SUBMERGED AQUATIC VEGETATION OBSERVED WITHIN THE LAST 5 YEARS.



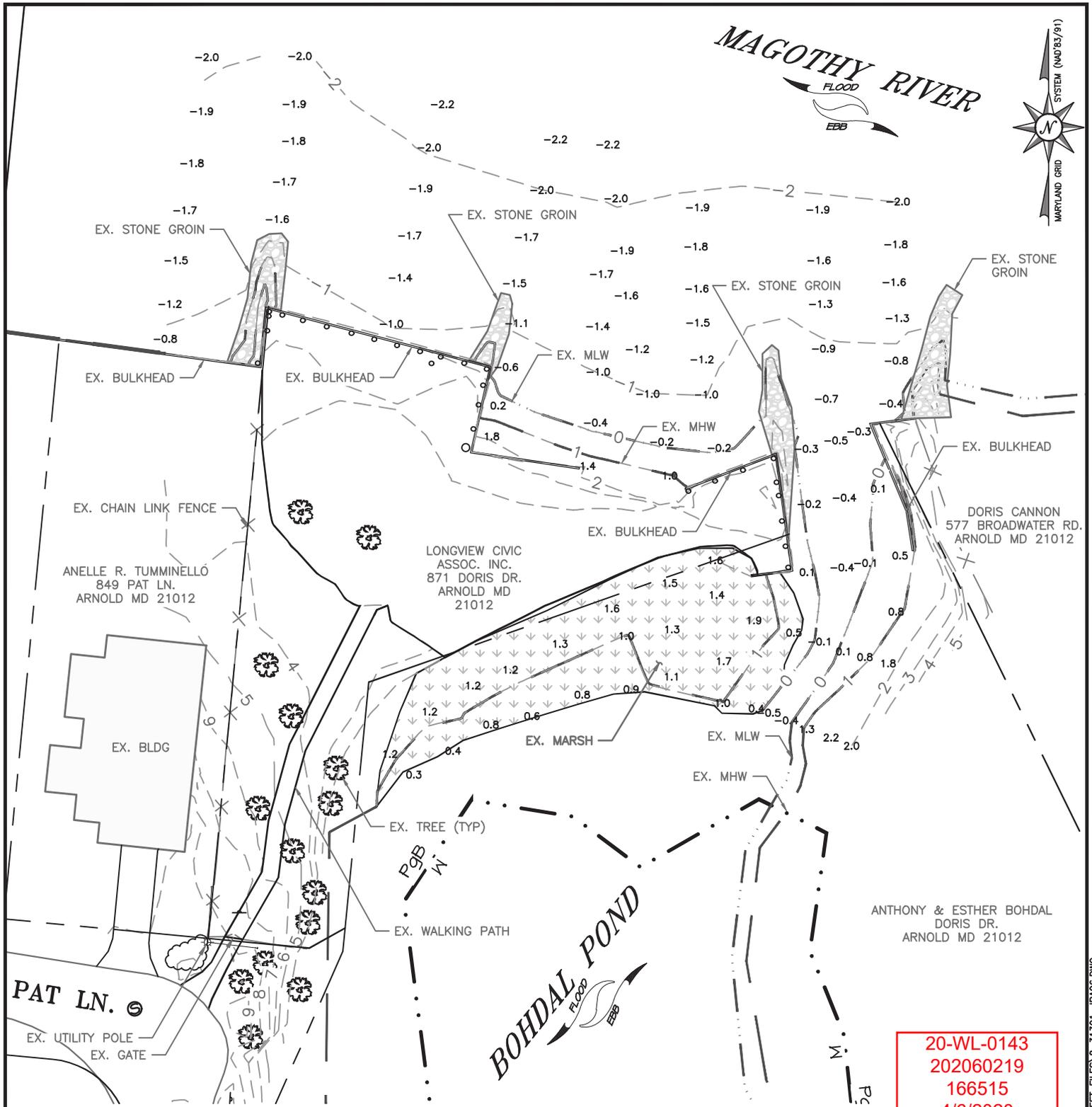
Bayland
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Hanover, Maryland 21076 Fax: (410) 694-9405
www.baylandinc.com

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MAGOTHY RIVER

FLOOD



LONGVIEW ON THE MAGOTHY COASTAL RESILIENCY PROJECT

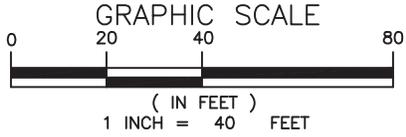
ANNE ARUNDEL COUNTY, MD

APPL. BY: LONGVIEW CIVIC ASSOCIATION
 MS. ZIPORA BROWN, PRESIDENT
EXISTING CONDITIONS PLAN

SHEET 3 OF 6

NOTES:

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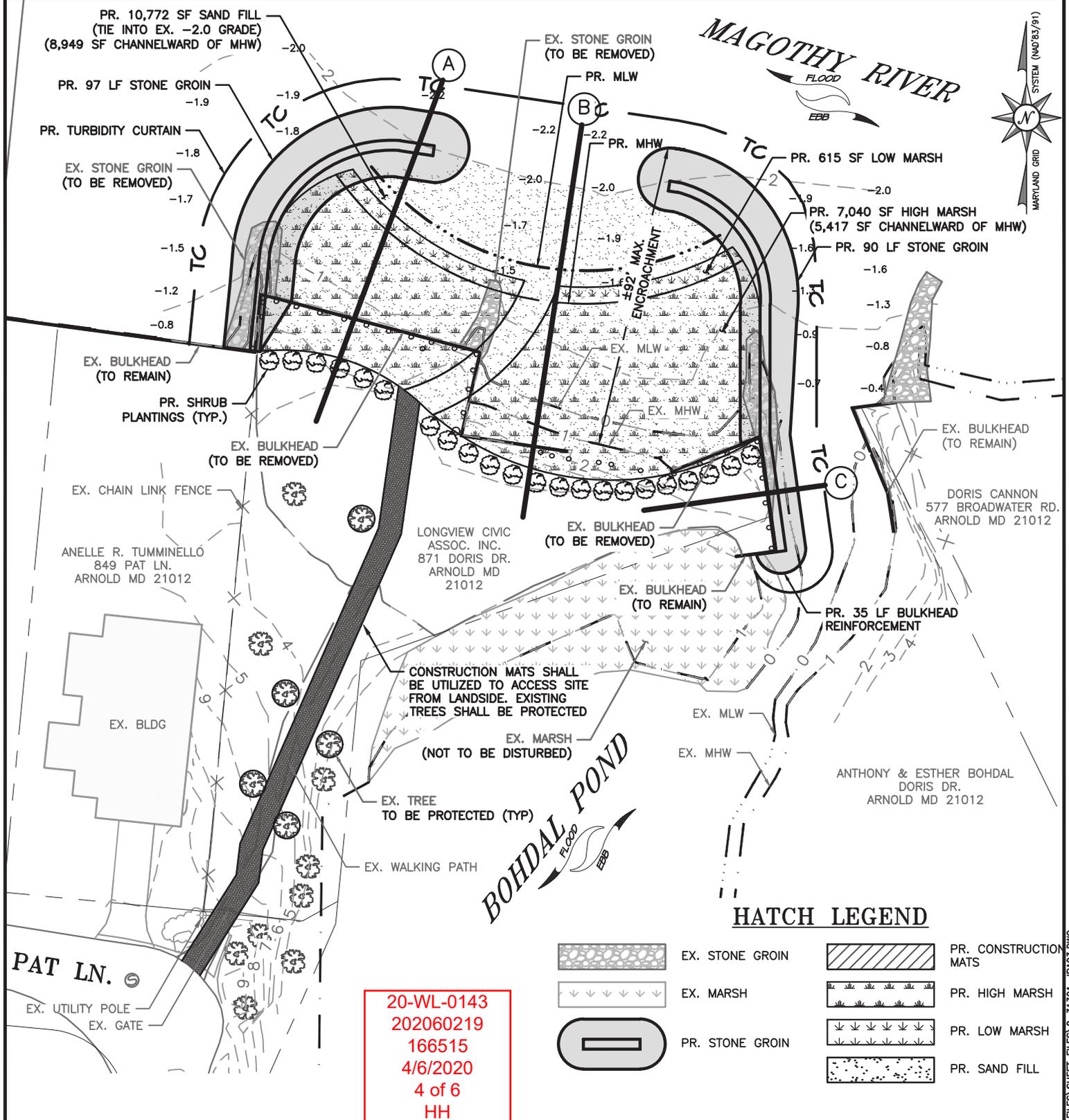



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MAGOTHY RIVER
 FLOOD
 EBB



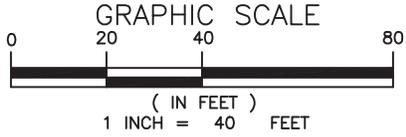
20-WL-0143
 202060219
 166515
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 HH

HATCH LEGEND

	EX. STONE GROIN		PR. CONSTRUCTION MATS
	EX. MARSH		PR. HIGH MARSH
	PR. STONE GROIN		PR. LOW MARSH
			PR. SAND FILL

NOTES:

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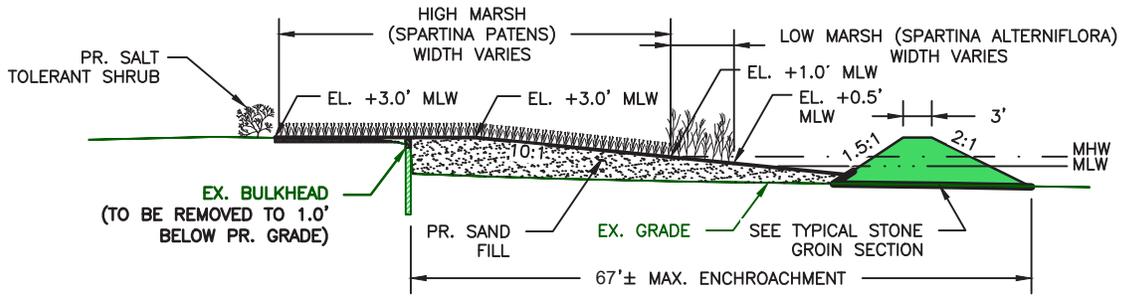
LONGVIEW ON THE MAGOTHY COASTAL RESILIENCY PROJECT

ANNE ARUNDEL COUNTY, MD

APPL. BY: LONGVIEW CIVIC ASSOCIATION
 MS. ZIPORA BROWN, PRESIDENT

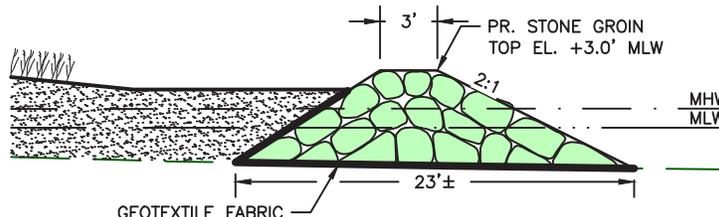
SITE PLAN

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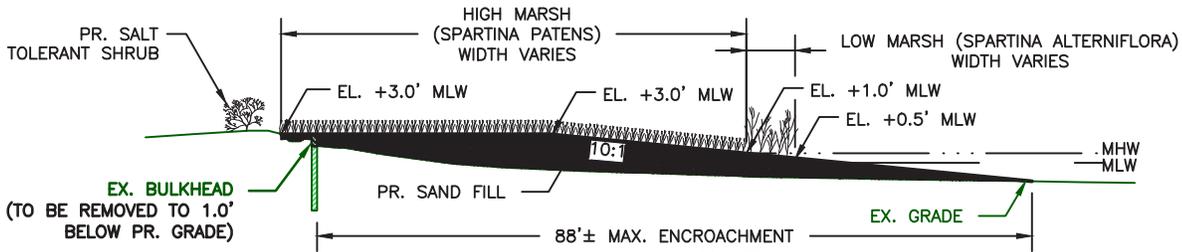
SECTION "A"

SCALE: 1" = 20'



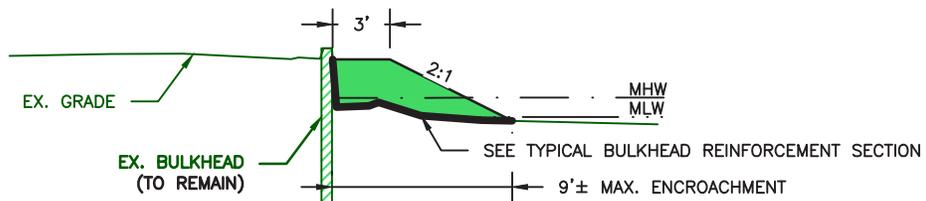
TYPICAL STONE GROIN SECTION

SCALE: 1" = 10'



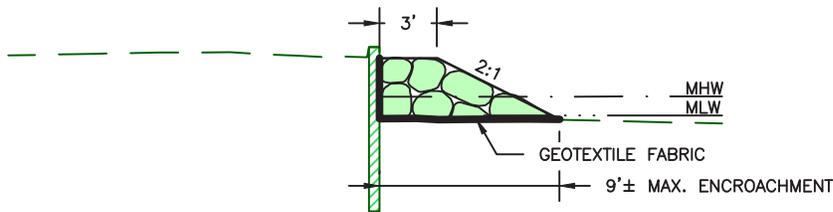
SECTION "B"

SCALE: 1" = 20'



SECTION "C"

SCALE: 1" = 10'



TYPICAL BULKHEAD REINFORCEMENT SECTION

SCALE: 1" = 10'

LONGVIEW ON THE MAGOTHY
COASTAL RESILIENCY PROJECT

ANNE ARUNDEL COUNTY, MD

APPL. BY: LONGVIEW CIVIC ASSOCIATION
MS. ZIPORA BROWN, PRESIDENT

SITE DETAILS

SHEET 5 OF 6

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5 of 6
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PROJECT SUMMARY

PROPOSED STRUCTURES:

STONE GROIN

TOTAL LENGTH - 187 LF

AVERAGE WIDTH - 20 FT

MAX. CHANNELWARD ENCROACHMENT - 92 FT

STONE BULKHEAD REINFORCEMENT

TOTAL LENGTH - 35 LF

AVERAGE WIDTH - 9 FT

MAX. CHANNELWARD ENCROACHMENT - 9 FT

SAND FILL - 875 CY (10,722 SF); CHANNELWARD OF MHW: 843 CY (8,949 SF)

TOTAL LENGTH - 154 FT

AVERAGE WIDTH - 70 FT

MAX. CHANNELWARD ENCROACHMENT - 88 FT

MARSH PLANTINGS - 7,655 SF; CHANNELWARD OF MHW: 6,032 SF

LOW MARSH PLANTINGS - 615 SF

HIGH MARSH PLANTINGS - 7,040 SF; CHANNELWARD OF MHW: 5,417 SF

SHRUB PLANTINGS - 819 SF

IMPACT SUMMARY

TOTAL AREA OF IMPACT FROM MHW INTO TIDAL WATERS: 12,261 SF (0.28 ACRES)

51% OF AREA OF IMPACT FROM MHW INTO TIDAL WATERS: 6,253 SF (0.14 ACRES)

AREA OF PROPOSED MARSH: 7,655 SF (0.18 ACRES)

AREA OF IMPACT TO PRIVATE TIDAL WETLANDS: 0 SF

NOTES

1. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY 2017 PLANIMETRICS AND IMAGERY.
2. CONTOURS ARE IN FEET AND REFER TO MLW.
3. TIDAL RANGE ~0.97 FEET.
4. TOPOGRAPHIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON 01/29/2019.
5. THESE ARE PERMIT DRAWINGS ONLY AND SUBJECT TO CHANGE DURING THE PERMIT PROCESS. DESIGN DRAWINGS ARE TO BE PREPARED SEPARATELY.
6. NO SUBMERGED AQUATIC VEGETATION (SAV) OBSERVED WITHIN THE LAST 5 YEARS.

LONGVIEW ON THE MAGOTHY
COASTAL RESILIENCY PROJECT

ANNE ARUNDEL COUNTY, MD

APPL. BY: LONGVIEW CIVIC ASSOCIATION
MS. ZIPORA BROWN, PRESIDENT

SITE NOTES

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Longview Civic Association
20-WL-0143
202060219

ATTACHMENT A

ADJACENT PROPERTY OWNERS NOTIFIED IN PUBLIC NOTICE PROCESS

Anelle Tumminello
849 Pat Lane
Arnold, MD 21012
artumminello@gmail.com

Anthony & Ester Bohdal
563 Broadwater Rd
Arnold, MD 21012

Doris Cannon
577 Broadwater Rd
Arnold, MD 21012

Gredel Funk
891 Doris Drive
Arnold, MD 21012
gredelfunk@gmail.com



MARSH MAINTENANCE PLAN

Agency Interest Number: 166515
Tidal Wetlands License Number: 20-WQC-0021
Licensee Name: Longview Civic Association
Community beach at end of Doris Drive
Arnold, MD 21012
Anne Arundel County

Please sign and date this Marsh Maintenance Plan and return to the address below no later than November 14, 2020.

Preparation: All areas that are to be planted shall be cleaned of rough grass, weeds, and debris and the ground surface filled and graded to the elevations specified on the plans.

Planting: The living shoreline will be planted during the planting season for wetland sprigging which is between April 1 and June 30 or between September 1 and October 30. The mean high water (MHW) lines will be marked on the ground and the plantings shall be made in rows parallel to the MHW line extending to the limits on the construction plans. Rows shall be 18 inches apart and plants 18 inches apart. Plantings shall be made by hand with dibble, spade or shovel by opening a hole at the planting site, placing the fertilizer and then the plant in the hole, closing the hole and firming the soil around the plant so that the surface soil level is .5 to 1 inch above the top of the planting pot root mass. If the soil at the planting site is not wet or damp, the plants shall be sufficiently watered within 4 hours after planting.

Protection: Immediately upon completion of the planting operation, the planting area shall be protected against wildlife, traffic or other use by erecting goose exclusion fencing and Blaze Orange Fence (BOF) at the top of the slope and along the sides of the planted area.

Plant Establishment: A healthy stand of wetland vegetation is defined as 85% aerial coverage of the original planted area by native wetland vegetation (e.g., planted species and volunteer native species). A healthy stand of wetland vegetation shall be established within 1 year of planting and shall be maintained for at least 3 consecutive years. The licensee is responsible for making sure the planted area is maintained by eradicating invasive species (e.g., Phragmites), and protecting areas from human traffic and wildlife predators. If a healthy stand of wetland vegetation is not established within one year after planting, the limiting factors will be identified and addressed and the area will be replanted as necessary.

Marsh Monitoring Reports: Brief, annual Marsh Monitoring Reports will be submitted to the address below for 5 years by the dates below, *regardless of the whether or not the project is completed or a healthy stand of wetland vegetation is obtained.* The Marsh Monitoring Report may be brief and include the following information, at a minimum:

- State Agency Interest number, Tidal Wetlands License number, and site address (listed above)
- Date of inspections
- Project completion date. If the project has not yet been completed, please indicate the current status of the project and disregard the remaining requirements.
- Estimation of percent plant coverage by the dominant species.
This should show the percent coverage of native and non-native wetland plant species. If 85% coverage by native species is not obtained, please indicate the limiting factors to plant growth, and what steps will be taken to meet the 85% coverage requirement.
- Identification of factors limiting establishment or maintenance of a healthy stand of wetland vegetation and identify the maintenance activities necessary to mitigate the resulting stress. *For example, if non-native, invasive species (such as Phragmites) have emerged and begun to crowd out the planted or volunteer native species, the invasive species should be physically removed or chemically controlled. If geese are predateding the plants, goose exclusion fence should be erected.*
- Photographs showing the current condition of the project

If by the 5th anniversary of the license effective date a healthy stand of wetland vegetation has not been maintained for at least 3 consecutive years, MDE may request that additional annual reports are provided.

The annual Marsh Monitoring Report should be submitted to the address below on or before the following dates:

- 1-Year Report: September 14, 2020
- 2-Year Report: September 14, 2021
- 3-Year Report: September 14, 2022
- 4-Year Report: September 14, 2023
- 5-Year Report: September 14, 2024

ACCEPTANCE OF MARSH MAINTENANCE PLAN

The applicant acknowledges that he/she has read and understands this Marsh Maintenance Plan and agrees to submit annual Marsh Monitoring Reports on or before the above due dates.

Signature of Licensee

Date

PLEASE SIGN, DATE AND RETURN THIS COPY OF THE MARSH MAINTENANCE PLAN TO:

MARYLAND DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WETLANDS AND WATERWAYS PROGRAM
TIDAL WETLANDS DIVISION
(Signed Marsh Maintenance Plan) C/O Heather Hepburn
(Annual Marsh Monitoring Reports) C/O Tidal Wetlands Division
1800 WASHINGTON BLVD.
BALTIMORE, MD 21230-1708