



Maryland
Department of
the Environment

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

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

September 9, 2020

U.S. Dept of the Navy - Naval Support Activity Annapolis - Environmental Division
c/o US Navy-NSA Annapolis
Lisa Dosmann
181 Wainwright Rd
Annapolis, Maryland 21402

Re: Agency Interest Number: 166091
Tracking Number: 201961476
Tidal Authorization Number: 20-WQC-0044

Dear U.S. Dept of the Navy:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); 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 MDSPGP 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 Heather Hepburn at 410-537-3789 or heather.hepburn1@maryland.gov with any questions.

Sincerely,

Danielle Spendiff, Chief
Western Region
Tidal Wetlands Division



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



20-WQC-0044

EFFECTIVE DATE: **September 9, 2020**
EXPIRATION DATE: **September 8, 2023**
CERTIFICATION HOLDER: **U.S. Dept of the Navy - Naval Support
Activity Annapolis - Environmental Division**
ADDRESS: **181 Wainwright Rd
Naval Academy, Maryland 21402**
PROJECT LOCATION: **Greenbury Point, Ent to Severn River West
Rd
Annapolis, MD 21402
Severn 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 19-0899 (“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. 19-0899 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

9/14/2020

Date

Tracking Number: 201961476
Agency Interest Number: 166091

Effective Date: September 9, 2020

Enclosure: Executed Tidal Wetlands License No. 19-0899 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. 19-0899

**U.S. DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY
ANNAPOLIS ENIRONMENTAL DIVISION**

The Maryland Board of Public Works authorizes you to:

- I. Replenish 280 feet of stone revetment over an existing deteriorated revetment within a maximum of 25 feet channelward of the mean high water line.
- II. Replenish 630 feet of stone revetment over an existing deteriorated revetment within a maximum of 25 feet channelward of the mean high water line.
- III. Replenish 240 feet of stone revetment over an existing deteriorated revetment within a maximum of 23 feet channelward of the mean high water line.

Severn River at Greenbury Point near East Road, Annapolis, 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):**

- I. Licensee shall not perform any construction from November 15 through March 1 of any year to protect wintering waterfowl. The proposed project site is located in a Historic Waterfowl Concentration Area.
- II. The mitigation project shall be constructed in accordance with the plans dated January 2020.
- III. Licensee shall maintain the mitigation site in perpetuity and monitor for 5 years after the completion of construction. Licensee shall submit a monitoring report to MD Dept. of the Environment's (MDE) Tidal wetlands Division, verifying that the wetland construction has

- been successful no later than December 31 of each year per the required 5 years of monitoring. A project shall be considered successful if there is a survival rate of 85% of the plants in forested and scrub shrub wetlands and if plants cover 85% of the surface area for emergent wetlands. If these standards are not met, Licensee shall determine the reason(s) for failure, correct the problem(s), and replant the project.
- IV. For the mitigation area, Licensee shall accept the terms of the attached marsh maintenance plan by signing and returning the standard plan to the Department of the Environment's (MDE) Water and Science Administration, Compliance Division, prior to the 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 MDE's Water and Science Administration, Tidal Wetlands Division, 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 standard plan, in terms of the extent of native marsh plant coverage, elimination of invasive species and time frame for plant establishment.
- V. Licensee shall obtain a Toxic Materials permit from MDE by contacting the Industrial Discharge permits Division at 410-537-3323 prior to the application of any herbicide to eradicate *Phragmites*. Toxic materials use permits are required for any homeowner, farmer, local government or other person who wants to control aquatic life in ponds, ditches or waterways by the deliberate use of chemical products.
- VI. Licensee shall not stockpile any material in State or private tidal wetlands.
- VII. Licensee shall design and construct the stone revetment to prevent the loss of fill material to waters of the State of Maryland.
- VIII. Licensee shall not use asphalt rubble in the revetment. Filter cloth shall be placed between the riprap and the soil. Prior to placement of the revetment, all rebar is to be cut off flush with the concrete. After placement of the revetment, any rebar exposed as a result of the concrete breaking during the placement is to be cut flush with the concrete. Except for the larger material placed along the leading edge of the revetment, the concrete shall be broken prior to placement so that random-sized interlocking pieces are formed.

**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 December 29, 2019, which are hereby incorporated into this License.
2. Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.
3. 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.
4. 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.
5. 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.
6. If MDE has issued a Water Quality Certification with respect to the authorized work, Licensee shall comply with all conditions of that certification.
 7. 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.
 8. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
 9. Licensee may not stockpile material in State tidal wetlands/State tidal waters of the U.S.
 10. Licensee shall allow unfettered public use of State wetlands/State tidal waters of the U.S.
 11. This License does not transfer a property interest of the State.
 12. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
 13. 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.
 14. 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.
 15. 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*.
 16. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.
 17. 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.
 18. 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.
 19. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion.

20. 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: 2020.09.08
15:51:06 -04'00'

John T. Gontrum
Executive Secretary

Effective Date: September 2, 2020
Approved as: Secretary's Agenda Item 6
Board of Public Works Meeting Date: September 2, 2020

I accept this License and all its conditions.

9/3/2020

Date



Licensee (Signature)

JOHN NESS

Name (Printed)

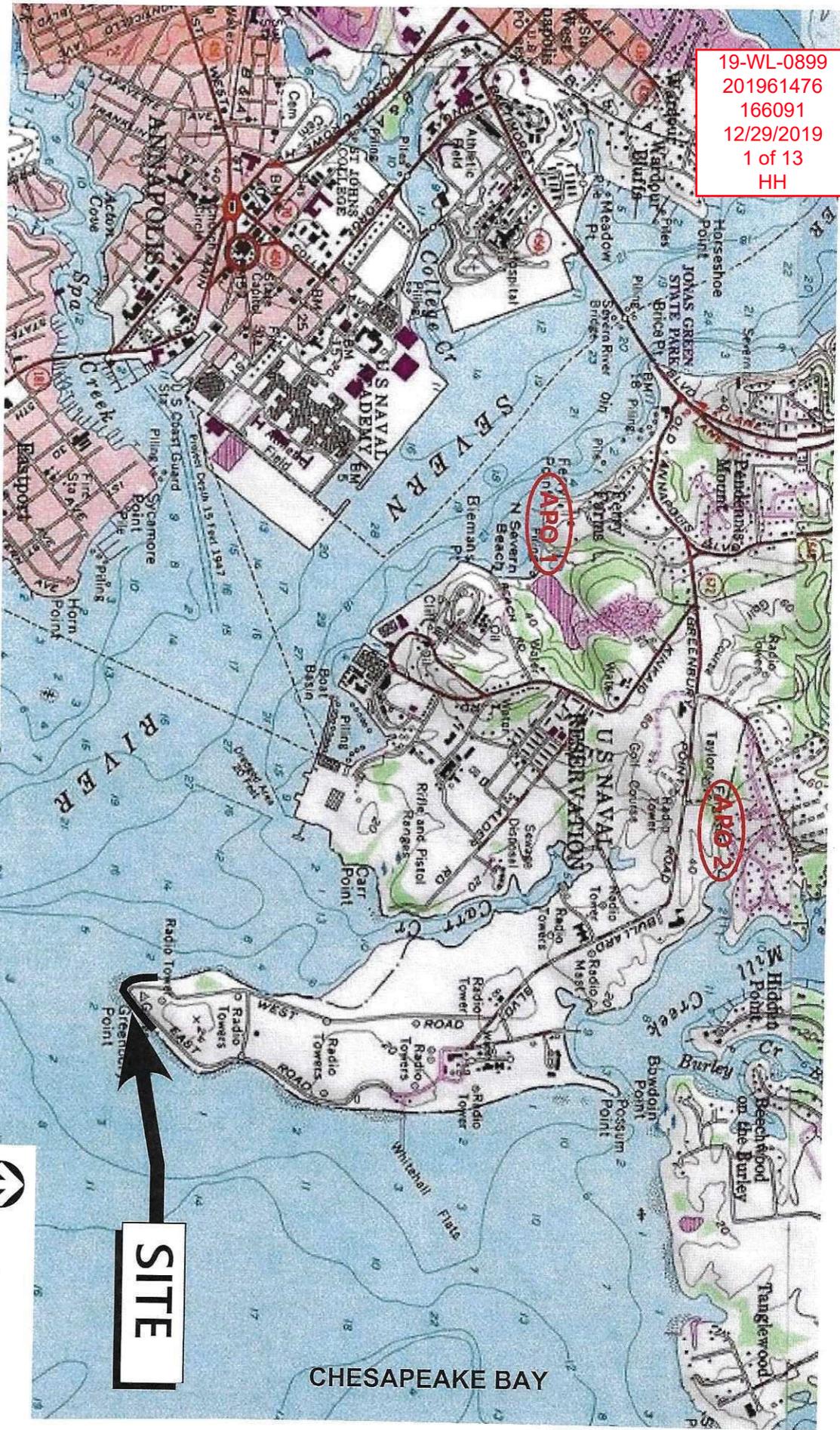
ACTING ENVIRONMENTAL PROGRAM DIRECTOR

Title

JOHN.NESS@NAVY.MIL

Email (to receive completed license)

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 201961476
 166091
 12/29/2019
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SITE

CHESAPEAKE BAY

COASTLINE DESIGN, P.C.

P. O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

1. CRYAN
 2. DAVEY
- DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

LOCATION MAP

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
 IN: ANNE ARUNDEL COUNTY, MARYLAND

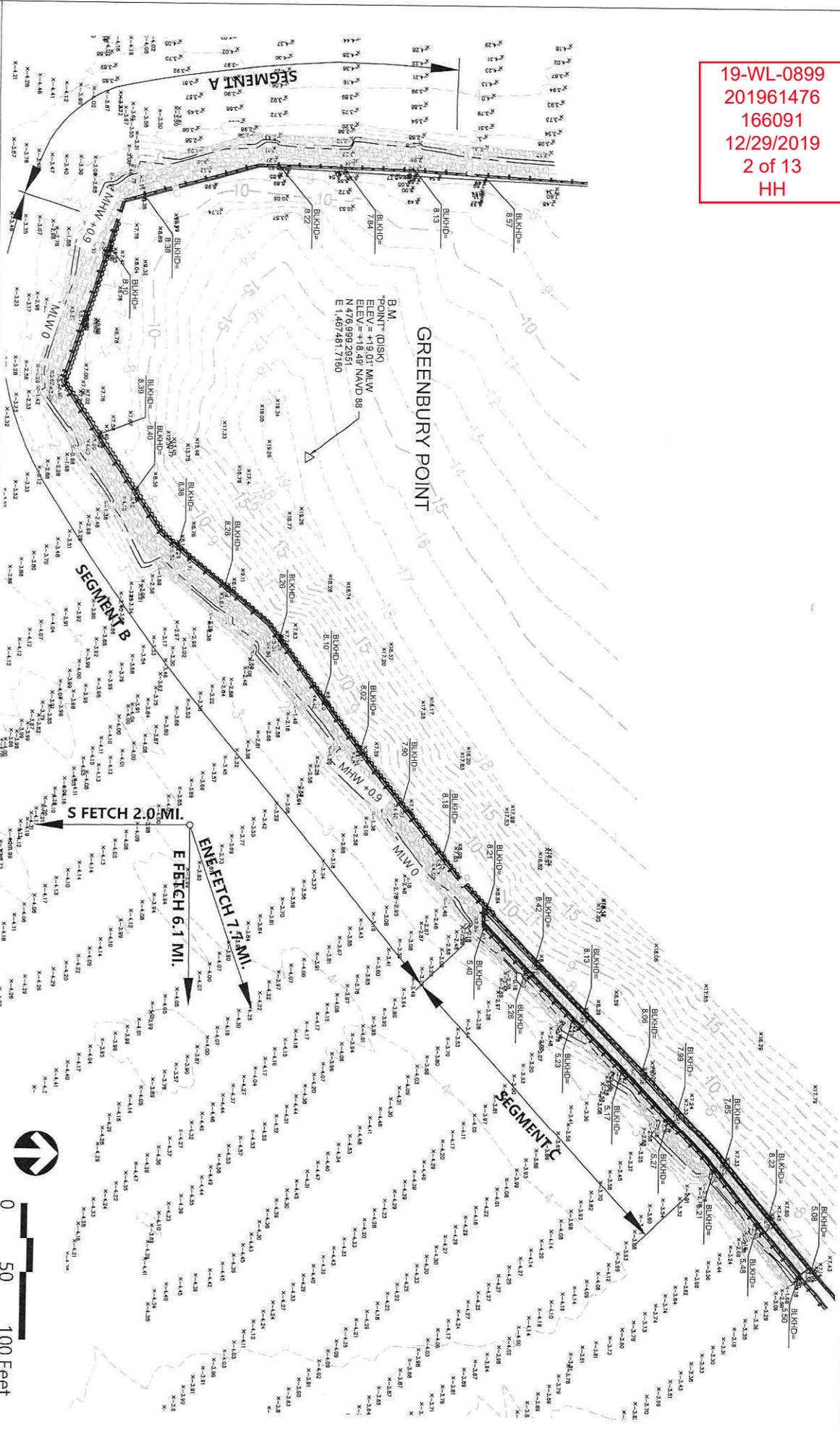
PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

DATE: APRIL, 2019

SHEET 1 OF 10

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P. O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

- 1. CHRYAN
- 2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

EXISTING CONDITIONS

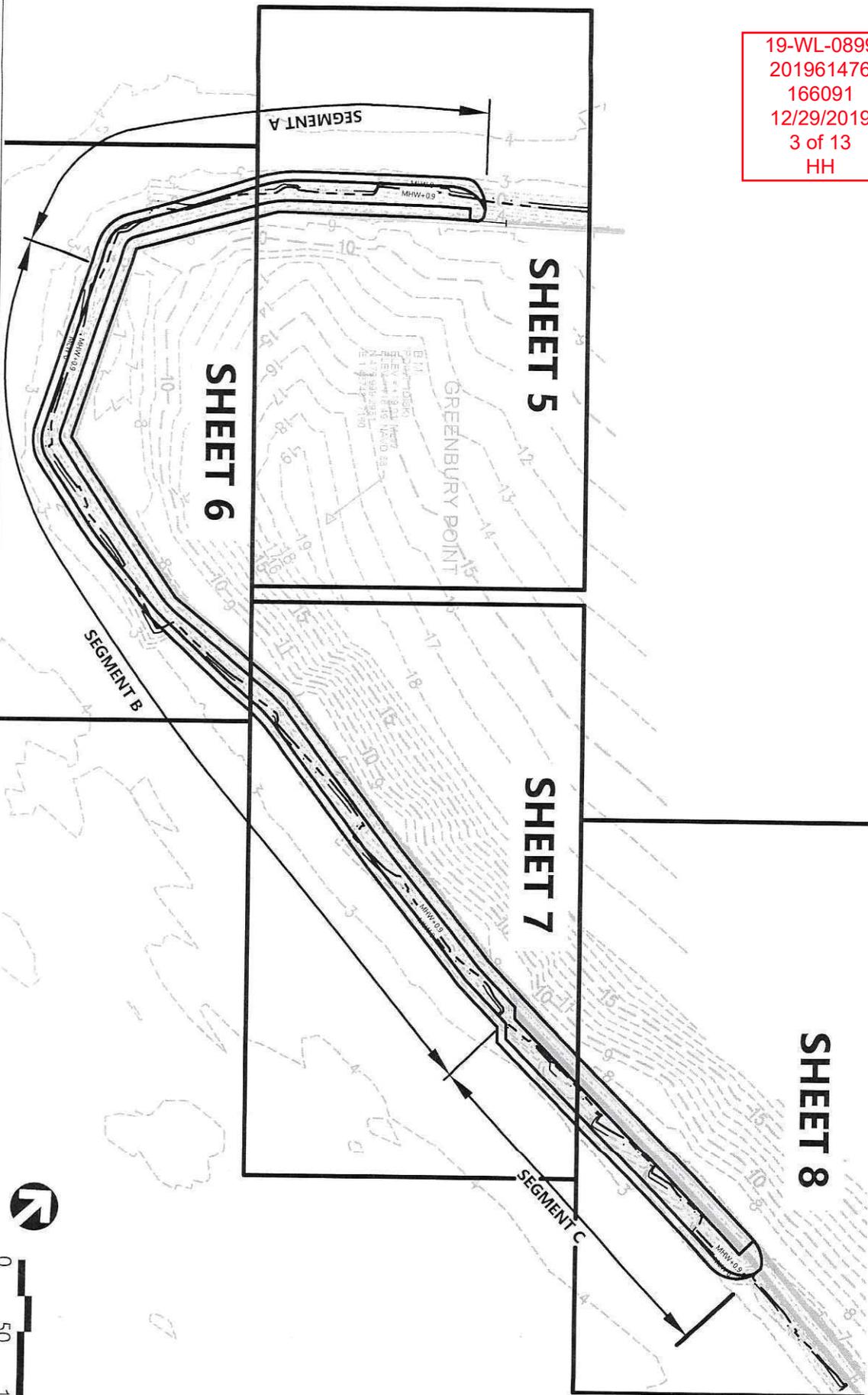
AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY

IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

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COASTLINE DESIGN, P.C.

P.O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

1. CRYAN
2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

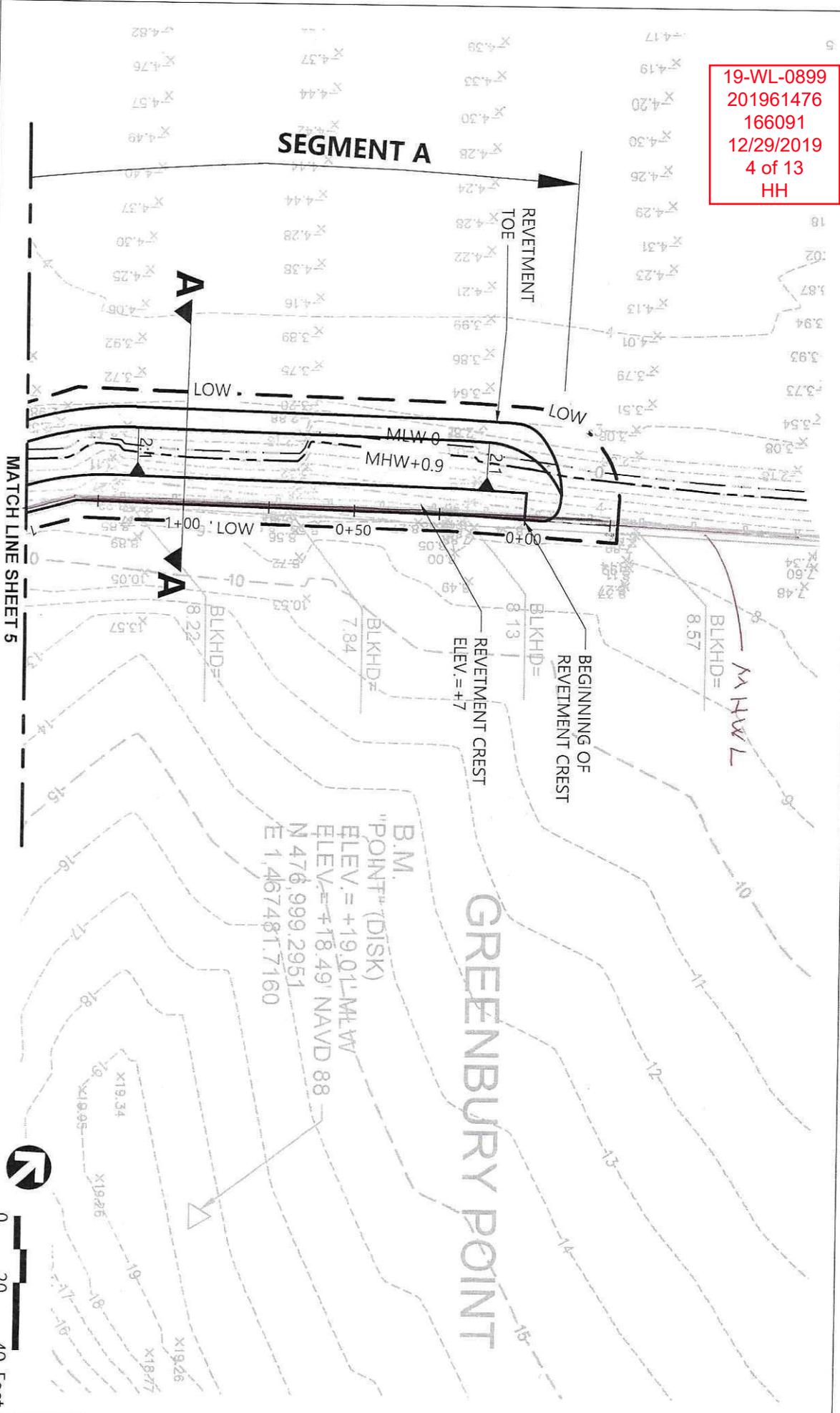
OVERALL LAYOUT & SHEET INDEX

**AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
 IN: ANNE ARUNDEL COUNTY, MARYLAND**

PURPOSE: SHORELINE RESTORATION

**APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS**

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COASTLINE DESIGN, P.C.

P.O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

1. CHYAN
2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

SHORELINE LAYOUT

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY

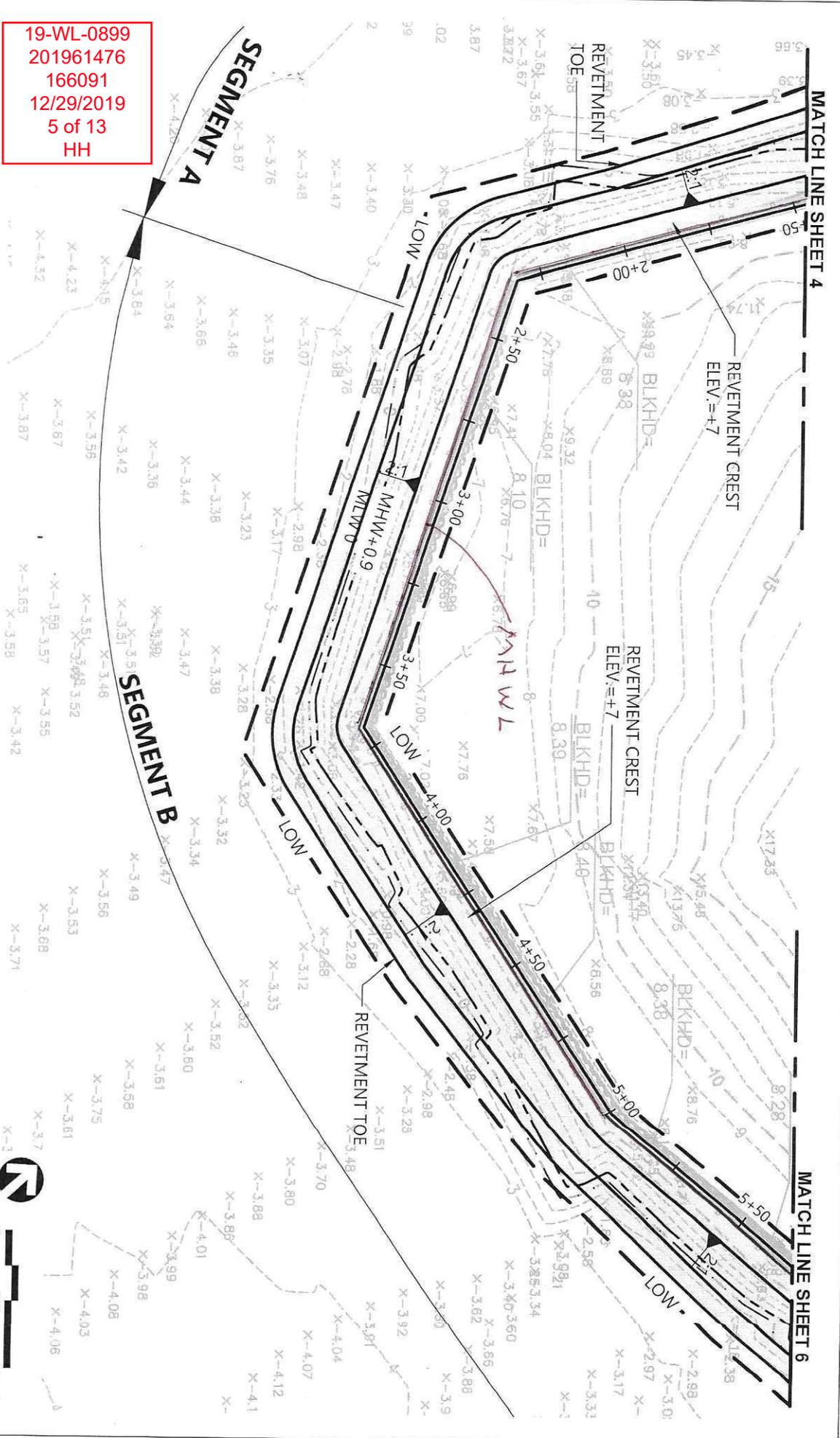
IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

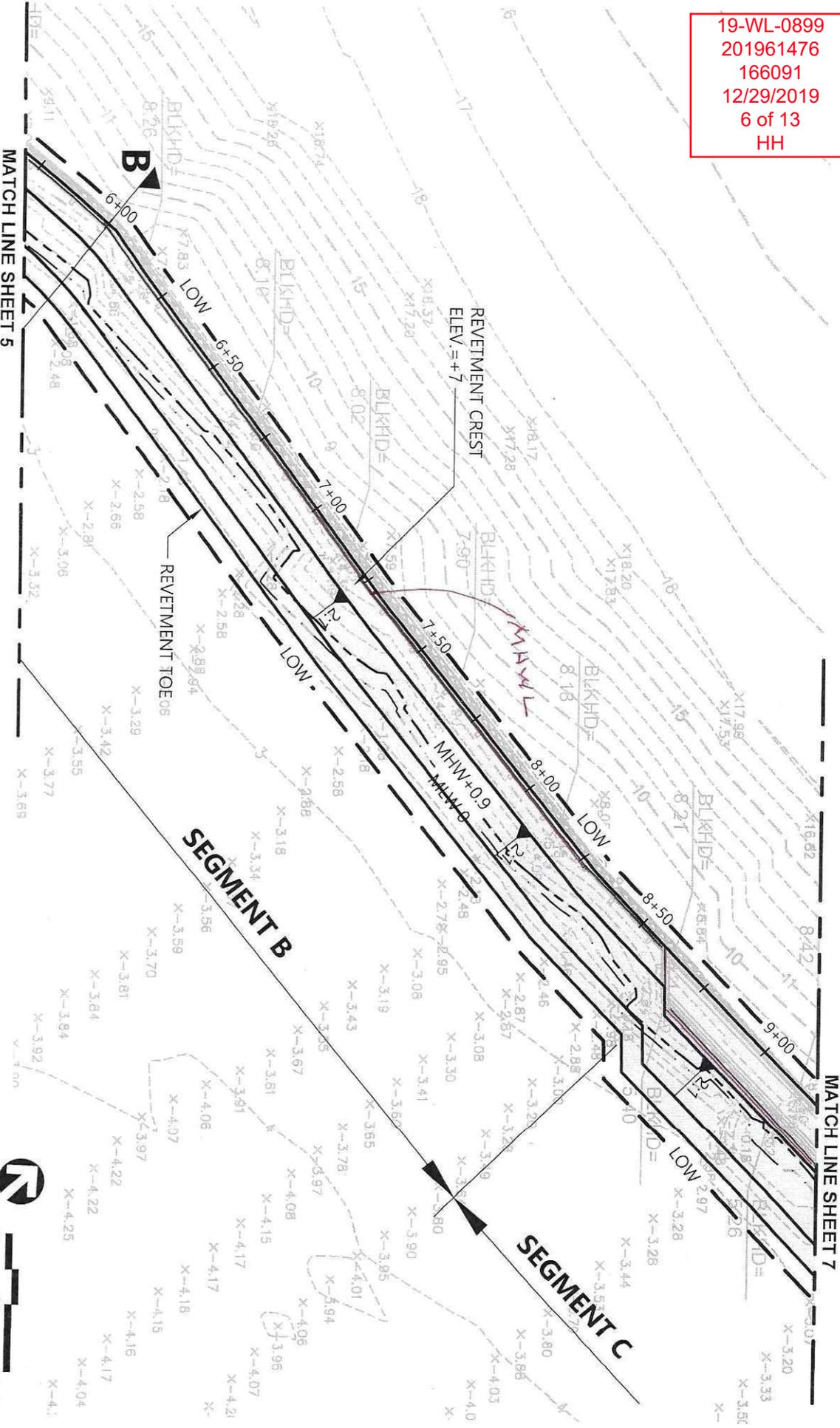
DEC 29, 2019

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 201961476
 166091
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COASTLINE DESIGN, P.C. P.O. BOX 157 ACHILLES, VIRGINIA 23001 (804) 642-2158		ADJACENT PROPERTY OWNERS: 1. CRYAN 2. DAVEY		SHORELINE RESTORATION PROJECT AT GREENBURY POINT SHORELINE LAYOUT		APPLICATION BY: NAVAL SUPPORT ACTIVITY ANNAPOLIS Dec 29, 2019	
DATUM: MEAN LOW WATER		AT: GREENBURY POINT ON THE CHESAPEAKE BAY		PURPOSE: SHORELINE RESTORATION		IN: ANNE ARUNDEL COUNTY, MARYLAND	

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COASTLINE DESIGN, P.C.

P.O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

- 1. CRYAN
- 2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

SHORELINE LAYOUT

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY

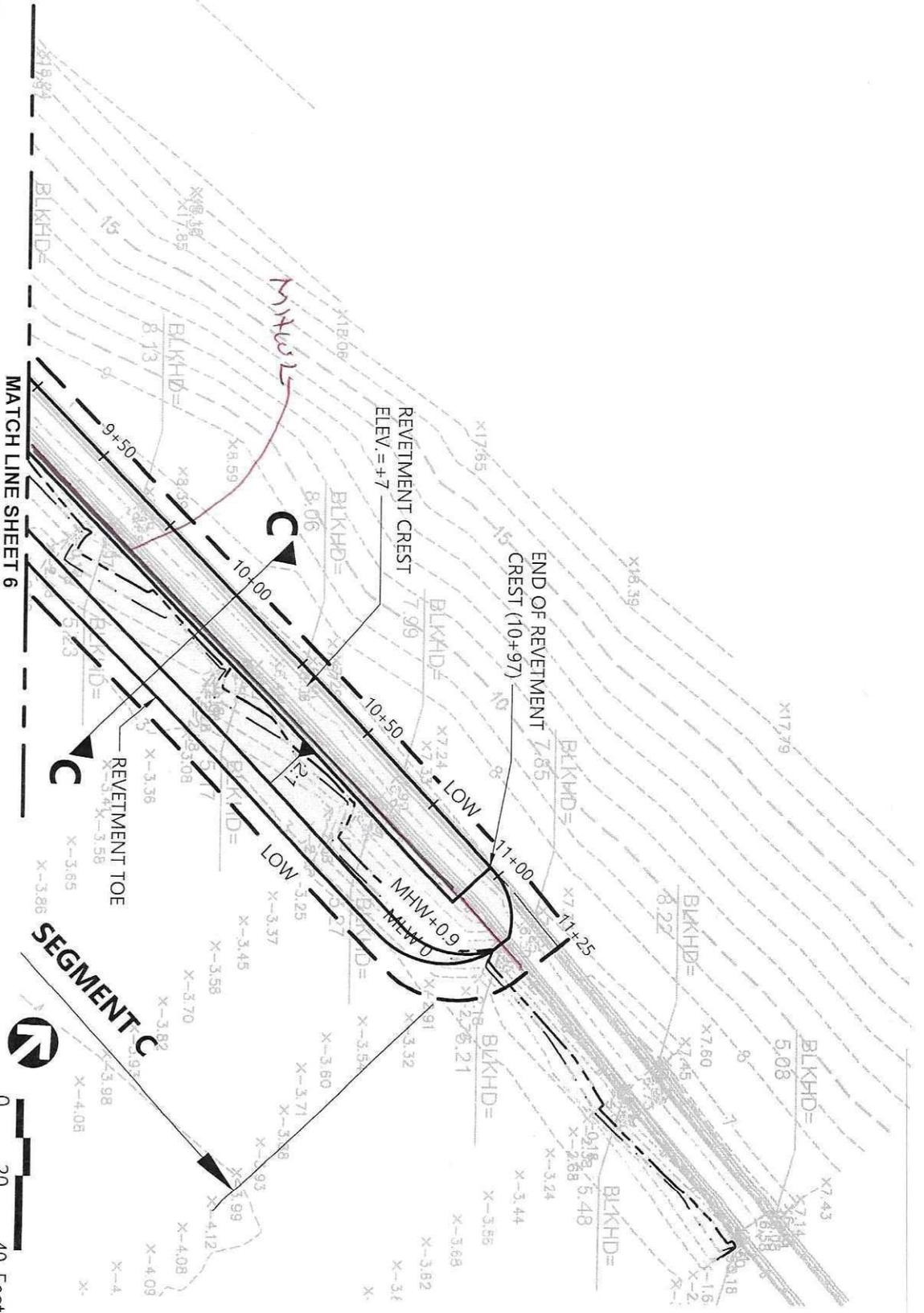
IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

DEC 29, 2019

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ADJACENT PROPERTY OWNERS:

1. GRAYAN
2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

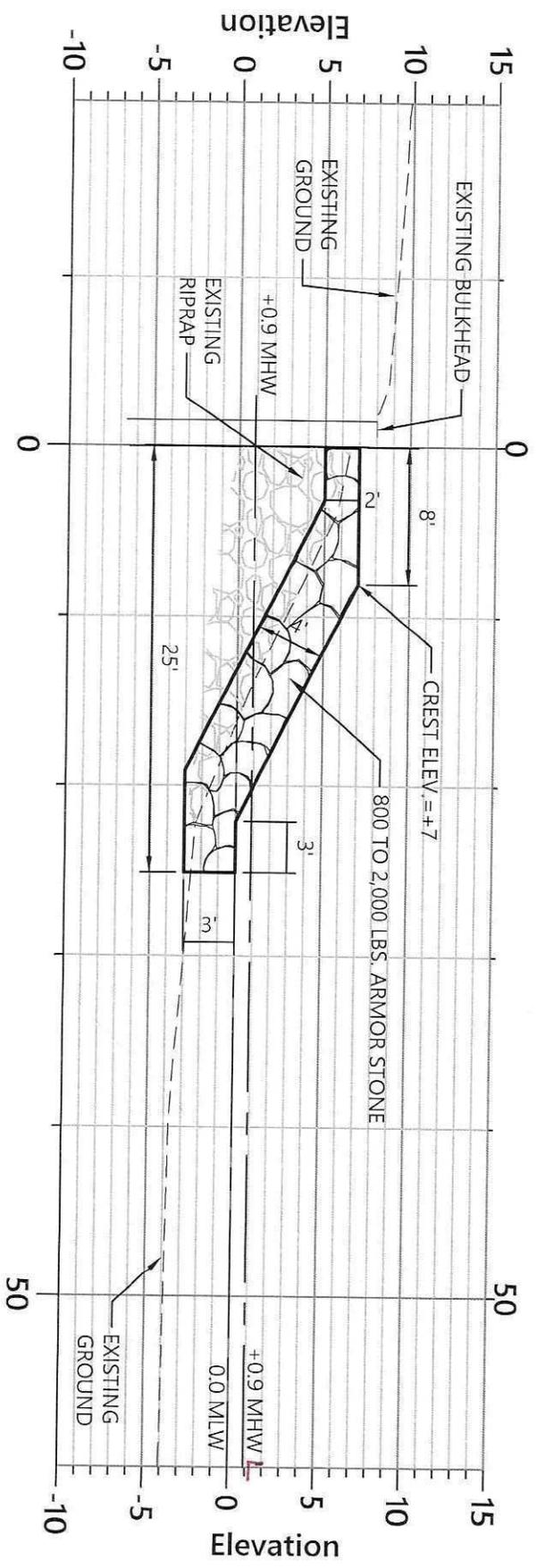
SHORELINE LAYOUT

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
 IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS
 Dec 29 2019

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CHINK EXISTING ROCK WITH #3 STONE AND LOCK NEW AND OLD ARMOR TO PROVIDE MAXIMUM ROCK TO ROCK CONTACT. REFER TO SPECIFICATIONS: DIVISION II STONE PROTECTION PLACEMENT SECTION 26



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P.O. BOX 157
 ACHILLES, VIRGINIA 23001
 (804) 642-2158

ADJACENT PROPERTY OWNERS:

- 1. CRYAN
- 2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

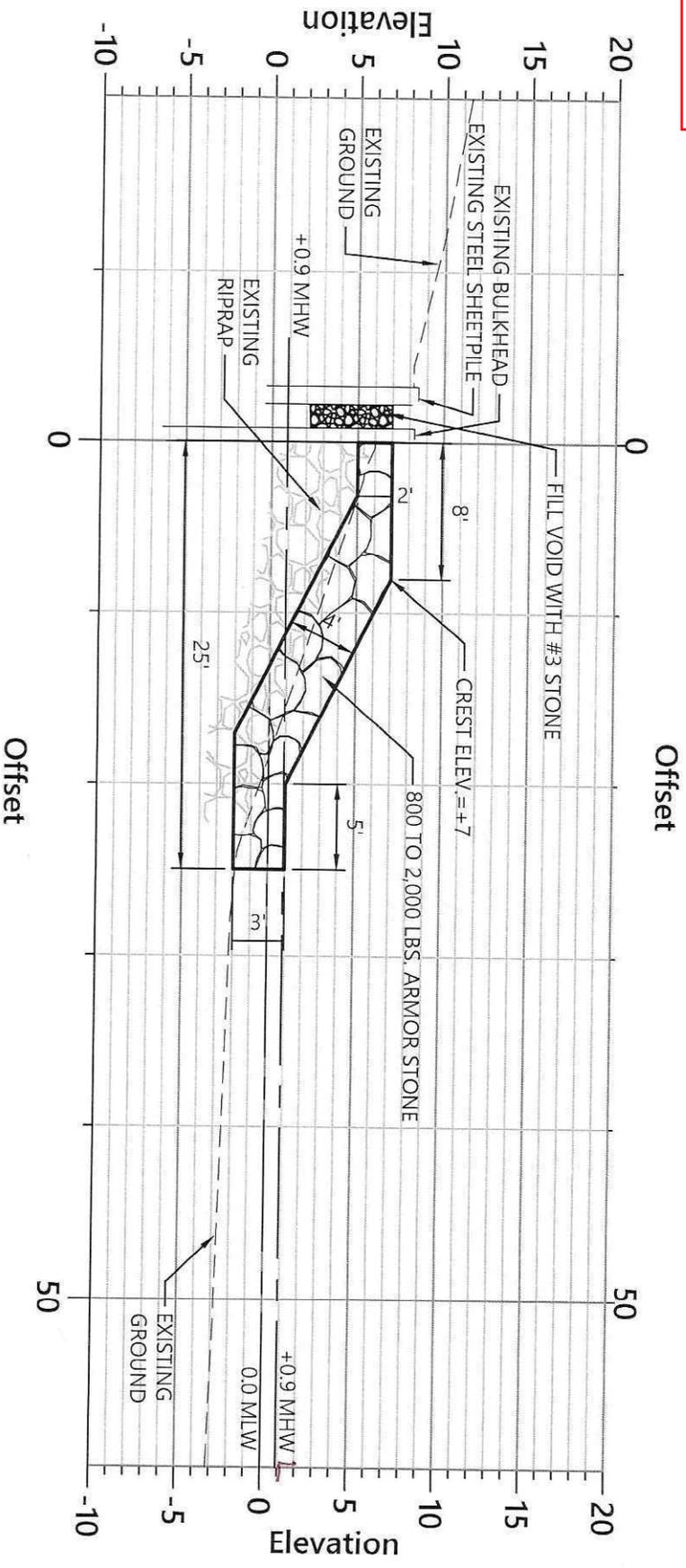
TYPICAL SECTION A-A SEGMENT A

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
 IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

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CHINK EXISTING ROCK WITH #3 STONE AND LOCK NEW AND OLD ARMOR TO PROVIDE MAXIMUM ROCK TO ROCK CONTACT. REFER TO SPECIFICATIONS: DIVISION II STONE PROTECTION PLACEMENT SECTION 2.6



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P.O. BOX 157
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 (804) 642-2158

ADJACENT PROPERTY OWNERS:

1. CRYAN
2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

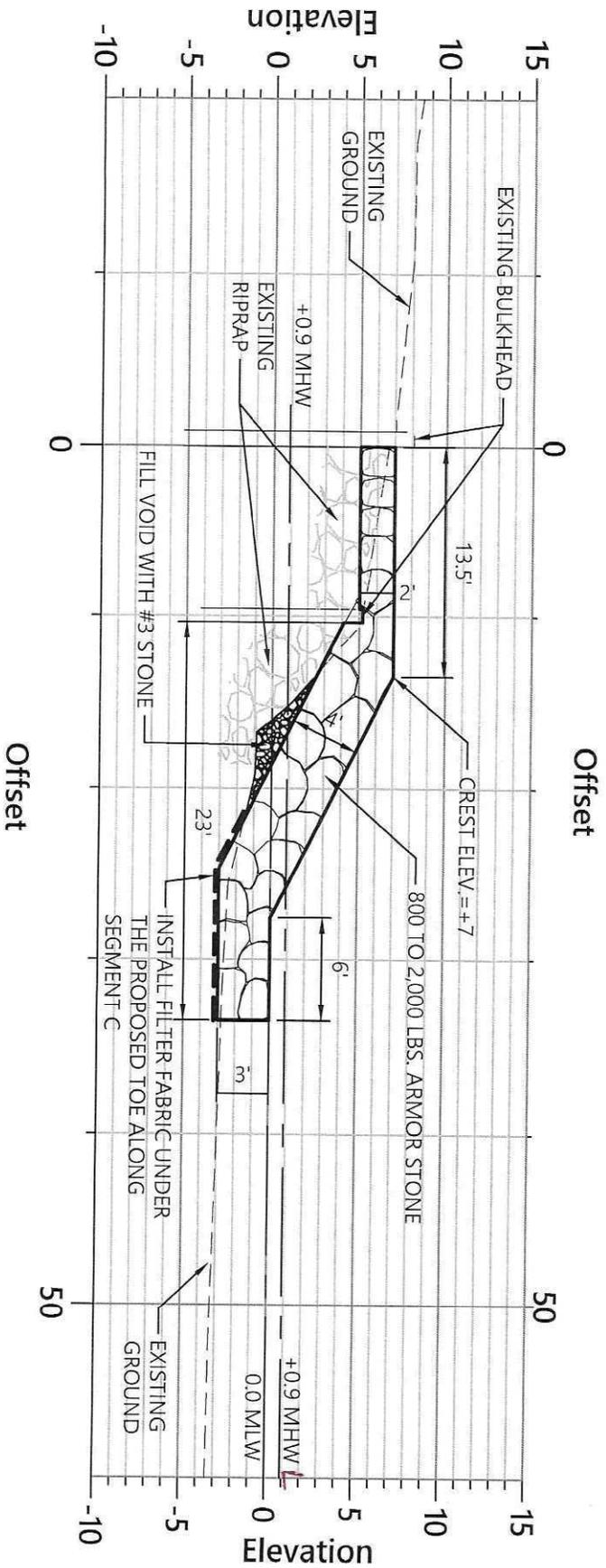
TYPICAL SECTION B-B SEGMENT B

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
 IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

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CHINK EXISTING ROCK WITH #3 STONE AND LOCK NEW AND OLD ARMOR TO PROVIDE MAXIMUM ROCK TO ROCK CONTACT. REFER TO SPECIFICATIONS: DIVISION II STONE PROTECTION PLACEMENT SECTION 2.6



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 (804) 642-2158

ADJACENT PROPERTY OWNERS:

1. GRAYN
2. DAVEY

DATUM: MEAN LOW WATER

SHORELINE RESTORATION PROJECT AT GREENBURY POINT

TYPICAL SECTION C-C SEGMENT C

AT: GREENBURY POINT
 ON THE CHESAPEAKE BAY
IN: ANNE ARUNDEL COUNTY, MARYLAND

PURPOSE: SHORELINE RESTORATION

APPLICATION BY:
 NAVAL SUPPORT ACTIVITY
 ANNAPOLIS

Mitigation Plan dated
January 2020

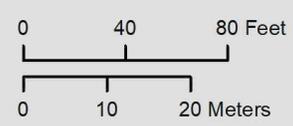
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-  NSA Annapolis
-  Project Area
-  Mill Creek Marina

Note: This is the approximate location of the 0.4-acre project area and does not represent the official boundary. The entire 0.4-acre project area is to be completely located within US Navy property.

January 2020
Source: NSA Annapolis,
MD iMap, DoIT, MDP,
Esri Data & Maps 2020



Attachment
NSA Annapolis Short Application Form TIDAL
#5 Project Description

Naval Support Activity Annapolis

Phragmites Control Within a Tidal Marsh on Greenbury Point, Mill Creek, Annapolis, Maryland

#5 Project Description

Marstel-Day and Princeton Hydro, contractors supporting NAVFAC Washington and NSA Annapolis, will treat 0.4 acres of high density phragmites (*Phragmites australis*) located on Greenbury Point near Mill Creek, Maryland; see attached map. The project site is entirely within the Department of the Navy's property and there are no known threatened or endangered species in the project site. The area is classified as a tidal marsh and is within the critical area buffer.

The contractors will use a Marsh Master machine to mechanically crush the phragmites via a crushing/rolling technique (duration of one-day). The crushed stems of phragmites will be removed using a Truxor 5045DM amphibious tool carrying machine and the phragmites debris will be transferred to a transportation barge. The transportation barge will be docked nearby at NSA Annapolis' Mill Creek Marina which is approximately 0.6 miles from the project site. The Truxor, equipped with a spring rake attachment, will rake accumulated debris from the area. The raking will not remove any soil. The phragmites debris will then be loaded onto the collection/transport barge and transported back to the boat launch at Mill Creek Marina. The debris will be removed from the barge, loaded into a dumpster, and transported to a disposal facility. Once the stands of phragmites are removed, the 0.4-acre project site will be treated using herbicides (Rodeo). The contractor will complete two treatments a year for a period of three years (6 total treatments). The techniques for herbicide treatment include backpack and broadcast spraying. No work will be conducted outside of the project boundaries indicated on the project map, outside of the Navy property boundaries, or in the water or adjacent channels.

After completing the mechanical and chemical treatments, the site will be planted with native vegetation to further inhibit phragmites regrowth. The contractors will plant 200 one-gallon plants within the project site. Vegetation may include the following herbaceous and shrub species: southern lady fern (*Athyrium asplenoides*), royal fern (*Osmunda regalis*), wild/Eastern columbine (*Aquilegia Canadensis*), swamp milkweed (*Asclepias incarnate*), rose mallow (*Hibiscus moscheutos*), great blue lobelia (*Lobelia siphilitica*), wake robin (*Trillium erectum*), narrow leaved cattail (*Typha angustiflora*), sweet pepperbush (*Clethra alnifoli*), northern bayberry (*Myrica pensylvanica*), pink azalea (*Rhododendron periclymenoides*), and highbush blueberry (*Vaccinium corymbosum*). No soil will be added to the site.

Attachment

NSA Annapolis Short Application Form TIDAL

#11 Description of Avoidance, Minimization, and Compensation

Naval Support Activity Annapolis

Phragmites Control Within a Tidal Marsh on Greenbury Point, Mill Creek, Annapolis, Maryland

#11 Description of Avoidance, Minimization, and Compensation

Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.

Please provide a separate sheet(s) that addresses the proposed project's avoidance, minimization, and compensation (if required) which includes any clearing, grading, or excavation required before, during, and after the proposed project.

Dredging the project site will not be an activity component. Therefore, dredged or fill material will not be discharged into waters of the United States and adverse impacts of such discharges on the aquatic ecosystem, both temporary and permanent, will be avoided. Heavy equipment will be used while working in the project site, however the Truxor 5045DM and Marsh Master are designed to minimize soil and vegetation disturbance in wet environments. Elevation and grade of the project site will not be altered. Herbicides approved for use in aquatic environments have been vetted by NSA Annapolis and will be applied at the appropriate concentration per the labels. A toxic materials permit is being submitted concurrently with the MDE Tidal Permit. Native species restoration efforts will be planted by hand using a shovel or trowel for minimal ground / soil disturbance.



MARSH MAINTENANCE PLAN

Agency Interest Number: 166091
Tidal Wetlands License Number: 20-WQC-0044
Licensee Name: U.S. Dept of the Navy - Naval Support Activity Annapolis
Greenbury Point near East Rd
Annapolis, MD 21409
Anne Arundel County

Please sign and date this Marsh Maintenance Plan and return to the address below no later than November 9, 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 9, 2021
- 2-Year Report: September 9, 2022
- 3-Year Report: September 9, 2023
- 4-Year Report: September 9, 2024
- 5-Year Report: September 9, 2025

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