



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION
26-WQC-0011



EFFECTIVE DATE: **July 15, 2026**
CERTIFICATION HOLDER: **Alan Kraft**
1274 Turkey Point Rd
Edgewater, MD 21037

PROJECT LOCATION: **1274 Turkey Point Rd**
Edgewater, MD 21037

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 MARYLAND DEPARTMENT OF THE ENVIRONMENT (DEPARTMENT) HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN THE REQUEST FOR CERTIFICATION FOR Alan Kraft Historical Beach Restoration ASSOCIATED WITH U.S. ARMY CORPS OF ENGINEERS (CORPS) AUTHORIZATION NAB-2025-60328, WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS CERTIFICATION.

THIS CERTIFICATION IS HEREBY GRANTED WITH CONDITIONS. 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. THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

PROJECT DESCRIPTION

Tracking Number: 202560328

Agency Interest Number: 74276

Emplace a 98-foot long by 14.5-foot wide stone groin, a 35-foot long by 14.5-foot wide stone groin, and fill a 2,212.57 sq. ft. area with 90 CY of sand

This Water Quality Certification (Certification) is issued under authority of Section 401 of the Federal Water Pollution Control Act and its Amendments, Title 9, Subtitle 3 of the Environment Article, and Code of Maryland Regulations (COMAR) 26.08.02.10. The Department has determined from a review of the request application file that the project activities described in the above will not violate Maryland's water quality standards, provided that the following conditions are satisfied. The Department satisfied statutory and regulatory public notice requirements by placing this WQC on Public Notice from June 1st, 2026 to July 1st, 2026 on the Department's Public Notice webpage (and advertising in the Capital on June 1st, 2026).

SPECIAL CONDITIONS

1. The Certificate Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certificate 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.
2. All work performed under this Tidal Wetlands Permit 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 and COMAR 26.30. The licensed marine contractor shall be authorized for the appropriate license category to perform or solicit to perform the activities within this authorization, if applicable. A list of licensed marine contractors and their license category 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 at <https://mde.maryland.gov/programs/water/WetlandsandWaterways/Pages/LicensedMarineContractors.aspx>.
3. The issuance of this Certificate is not a validation or authorization by the Department for any of the existing structures depicted on the plan sheets on the subject property that is not part of the authorized work description, nor does it relieve the Certificate Holder of the obligation to resolve any existing noncompliant structures and activities within tidal wetlands.
4. The Licensee shall construct the beach nourishment area in accordance with the following conditions:
 1. The Licensee shall use clean substrate fill material, no more than 10% of which shall pass through a standard number 100 sieve.
 2. If the fill is graded hydraulically, the licensee shall use a turbidity curtain around the perimeter of the instream work.
 3. If the existing bank is to be cleared or graded:
 - a. The Licensee shall perform all work under and in accordance with an approved Soil Erosion and Sediment Control Plan from the applicable sediment and erosion control agency; and
 - b. The 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.
5. To minimize impacts to spawning anadromous and resident fish species, no in-water work should be permitted during the period of February 15 through June 15, inclusive.

GENERAL CONDITIONS

1. The Certification Holder shall comply with all water quality-related performance standards and conditions required by the Department or the Board of Public Works (BPW) in any state issued authorization for activities in tidal wetlands, nontidal wetlands, their 100-year floodplains, nontidal wetlands buffers, or nontidal wetland expanded buffers, to ensure that any discharges will not result in a failure to comply with water quality standards in COMAR 26.08.02 or any other water quality requirements of state law or regulation.

2. This Certification does not obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
3. The Certification Holder shall obtain and comply with all additional authorizations or approvals, including self-certifying General Permits issued by the Department.
4. The Project shall be constructed and activities conducted in accordance with the final plan approved by the Department or BPW (or if Department or BPW approval is not required, then in accordance with the plan approved by the Corps), and its approved revisions (Approved Plan).
5. This Certification does not authorize any injury to private property, any invasion of rights, or any infringement of federal, state, or local laws or regulations.
6. The Certification Holder shall allow authorized representatives of the Department access to the site of authorized activities during normal business hours to conduct inspections and evaluations of the operations and records necessary to assure compliance with this Certification.
7. Structures and activities may not interfere with movement of aquatic life, fish, and other wildlife nor cause their entanglement.
8. The Certification Holder may not conduct activities which result in the introduction of non-native species with adverse effects on the aquatic ecosystem into waters or wetlands.
9. No stockpiles of any material shall be placed in Waters of the U.S. or state or private tidal wetlands. All fill and construction materials not used in the project shall be removed and disposed of in a manner approved by the Department which will prevent their entry into waters of this State.
10. Temporary construction trailers or structures, staging areas and stockpiles may not be located within tidal wetlands, nontidal wetlands, nontidal wetlands buffers, nontidal wetland expanded buffers, or the 100-year floodplain unless specifically included on the Approved Plan.
11. The Certification Holder shall adhere to the construction time of year restrictions, unless waived or amended by the Department or BPW, as identified in a state authorization.
12. The Certification Holder shall obtain and comply with an erosion and sediment control plan approved by the appropriate authority (if applicable), including following the stabilization requirements set forth in COMAR 26.17.01.07 and "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control," as may be amended for activities which result in an earth disturbance subject to the requirements in Annotated Code of Maryland, Environment Article, Title 4 and COMAR 26.17.01.
13. The disturbance of the bottom of the waterway and sediment transport into adjacent State waters shall be minimized.
14. The Certification Holder shall notify the Compliance Program at mde.wsacompliance@maryland.gov a minimum of 2 weeks prior to commencement of regulated activities and discharges.
15. The Certification Holder shall notify the Water and Science Administration, Wetlands and Waterways Protection Program, 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 Certification to his/her name.

16. The Certification Holder shall ensure that a copy of this Certification, including the Approved Plans, is available at the site until the authorized work is complete.
17. This Certification is valid for the project identified herein and the associated Corps authorization NAB-2025-60328 until such time that the Corps authorization expires or is not administratively extended.

STATEMENTS OF NECESSITY AND CITATIONS

1. Statement of Necessity for General Conditions 1, 2, 3, 4, and 10, and Special Conditions 1 and 3: These conditions are necessary to ensure that water quality standards are met, and designated uses are maintained.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23; COMAR 26.24

2. Statement of Necessity for General Condition 5: This condition is necessary to clarify the scope of this certification to ensure compliance with water quality regulations, without limiting restrictions through other requirements.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10E; COMAR 26.23.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

3. Statement of Necessity for General Condition 6: Conditions of certification involve precise actions to comply with water quality standards. Site inspection may be necessary to ensure that limits, methods, and other requirements are met to ensure that water quality standards are met and designated uses are maintained. These conditions are necessary to ensure that the activity was conducted, and project completed according to terms of the authorization/certification, while allowing for review of in-field modifications which may have resulted in discharges to ensure that water quality standards were met. Designated uses include support of estuarine and marine aquatic life and shellfish harvesting and for growth and propagation of fish, other aquatic life, and wildlife.

Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2); COMAR 26.23.02.06; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

4. Statement of Necessity for General Condition 7: Movement of aquatic life and passage of flows is essential for growth and propagation of aquatic life, fish, and other wildlife to meet these designated uses.

Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08;; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2) - B(8); 26.08.02.03B(1)(b); 26.08.02.03B(2)(e); COMAR 26.17.01; COMAR 26.23.02.06A; COMAR 26.23; COMAR 26.17.04

5. Statement of Necessity for General Condition 8: Nuisance or non-native species may spread and disrupt and dislodge native species from their habitat, leading to declines in distribution, density, growth and propagation. This may result in failure to support native species; and growth, propagation of fish, other aquatic life, and wildlife. Limitations on loss will sustain habitat for a variety of aquatic species. The conditions ensure that discharges will not result in failure to support designated uses.

Citations: COMAR 26.08; COMAR 26.08.02.02.B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3)(b); COMAR 26.08.02B(4))(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMAR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e); COMAR 26.23.02.06A; COMAR 26.23; COMAR 26.17.04

6. Statement of Necessity for General Conditions 9, 10, 12, and Special Condition 4: Fill or construction material within or adjacent to regulated resources may cause discharges resulting in turbidity in excess of water quality standards and interfere with designated uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

Citations: 26.08.02.03B(1)-B(2); COMAR 26.08.02.03-3; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

7. Statement of Necessity for General Condition 11: The growth and propagation of fish, other aquatic life, and wildlife and support of estuarine and marine aquatic life and shellfish harvesting are dependent upon certain times during the year and specific environmental conditions. The condition is necessary to ensure that activities are restricted during the critical growth, propagation, movement, and harvesting periods to ensure that designated uses will be met.

Citations: Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3); COMAR 26.08.02.02B(4)(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMAR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e)

8. Statement of Necessity for General Condition 13: Restrictions on instream construction are necessary to protect designated uses for propagation and growth of fish, other aquatic life, and wildlife and comply with numeric water quality standards for turbidity and clarity.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03-3.D; COMAR 26.23.02.06; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3); COMAR 26.08.02.02B(4)(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMAR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e); COMAR 26.08.02.03-3.

9. Statement of Necessity for General Condition 14: The condition is necessary to ensure that Compliance personnel are aware of when discharges are taking place so that an inspection can be undertaken to ensure that water quality standards are met.

Citation: MD Env Code § 1-301 (2019)

10. Statement of Necessity for General Condition 15: In order to ensure that water quality standards will be met and conditions followed, a responsible party must be identified for accountability if needed. A change in ownership or other responsibility must be indicated as the new Certification Holder.

Citations: COMAR 26.08.02.10E(2)

11. Statement of Necessity for General Condition 16: This condition ensures that the Certification Holder and persons conducting work have the certification on the site for referral so that approved discharges will not result in violations of water quality standards.

Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.24; COMAR 26.08.02.01E(2); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23;

12. Statement of Necessity for General Condition 17: This condition is necessary to qualify the period of applicability of the terms and conditions of this Certification to be protective of Maryland water quality standards.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; 40 C.F.R. 121, 15 C.F.R. 930, Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

13. Statement of Necessity for Special Condition 2: Expertise for conducting certain activities is required to ensure that there is no violation of water quality standards nor interference with designated uses. This condition is necessary to ensure that discharges will be conducted in a manner which does not violate water quality criteria nor interfere with designated uses.

Citations: COMAR 26.08.02.02B(2)- B(4); COMAR 26.08 02.03B(2)(d) – (e); COMAR 26.08.02.03B(1)(b); 26.08.02.03B(2); COMAR 23.02.04.04

14. Statement of Necessity for Special Condition 5: A time of year restriction is necessary to maintain the designated use for support of estuarine and marine aquatic life and shellfish harvesting.

Citations: Federal and state laws which authorize this condition include but are not limited to: COMAR: 26.08.02.02B(1)(d); 26.08.02.02B(3); COMAR 26.08.02.02-16.

CERTIFICATION APPROVED

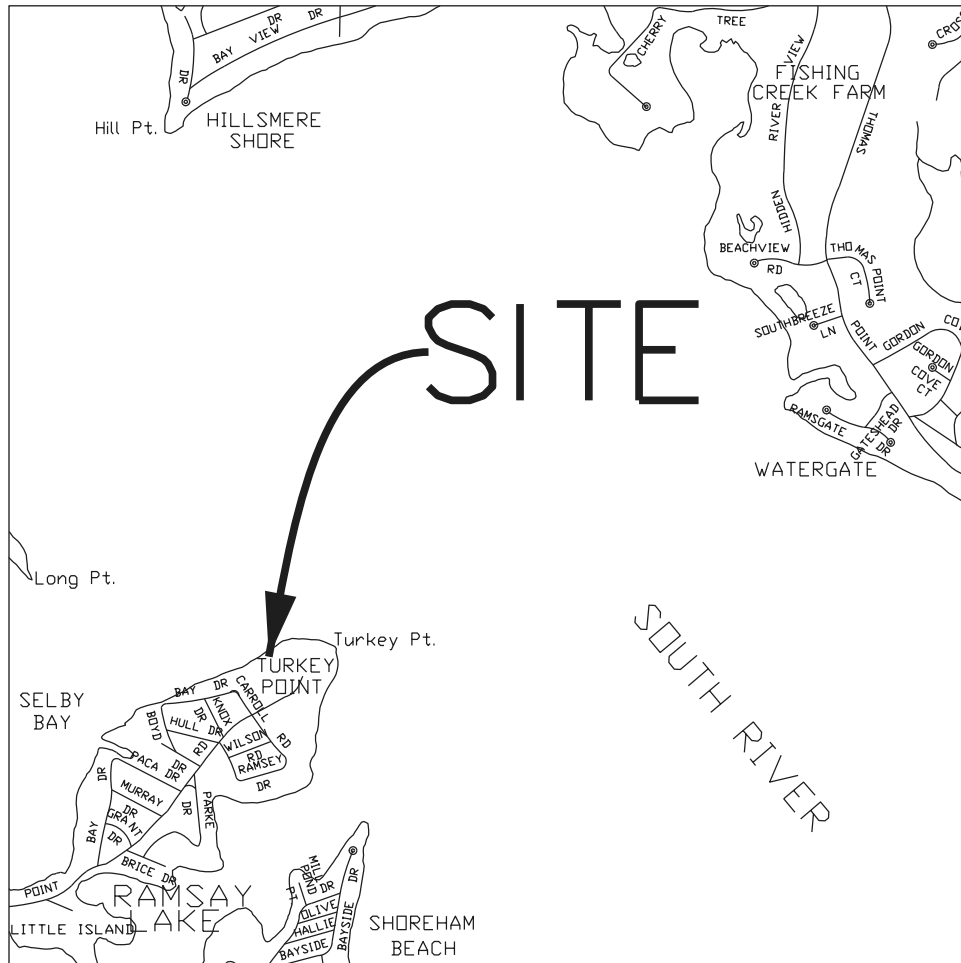
Tammy K. Roberson for
Tammy K. Roberson for (Aug 4, 2026 14:06:20 EDT)

Heather L. Nelson, Program Manager
Wetlands and Waterways Protection Program
Water and Science Administration

Effective Date: July 15, 2026

cc: WSA Inspection & Compliance Program
U.S. Army Corps of Engineers

VICINITY MAP 1" = 2000'



25-WL-0225, 26-WQC-0011
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December 11, 2025
GS

REVISED 12/11/2025

Tax Account No.:
1863-0363-1700
Tax Map: 60
Parcel: 39
Deed Ref: 13529/00004
Lot: 3
Zoning: R2
Lot Size: 22,200 SF

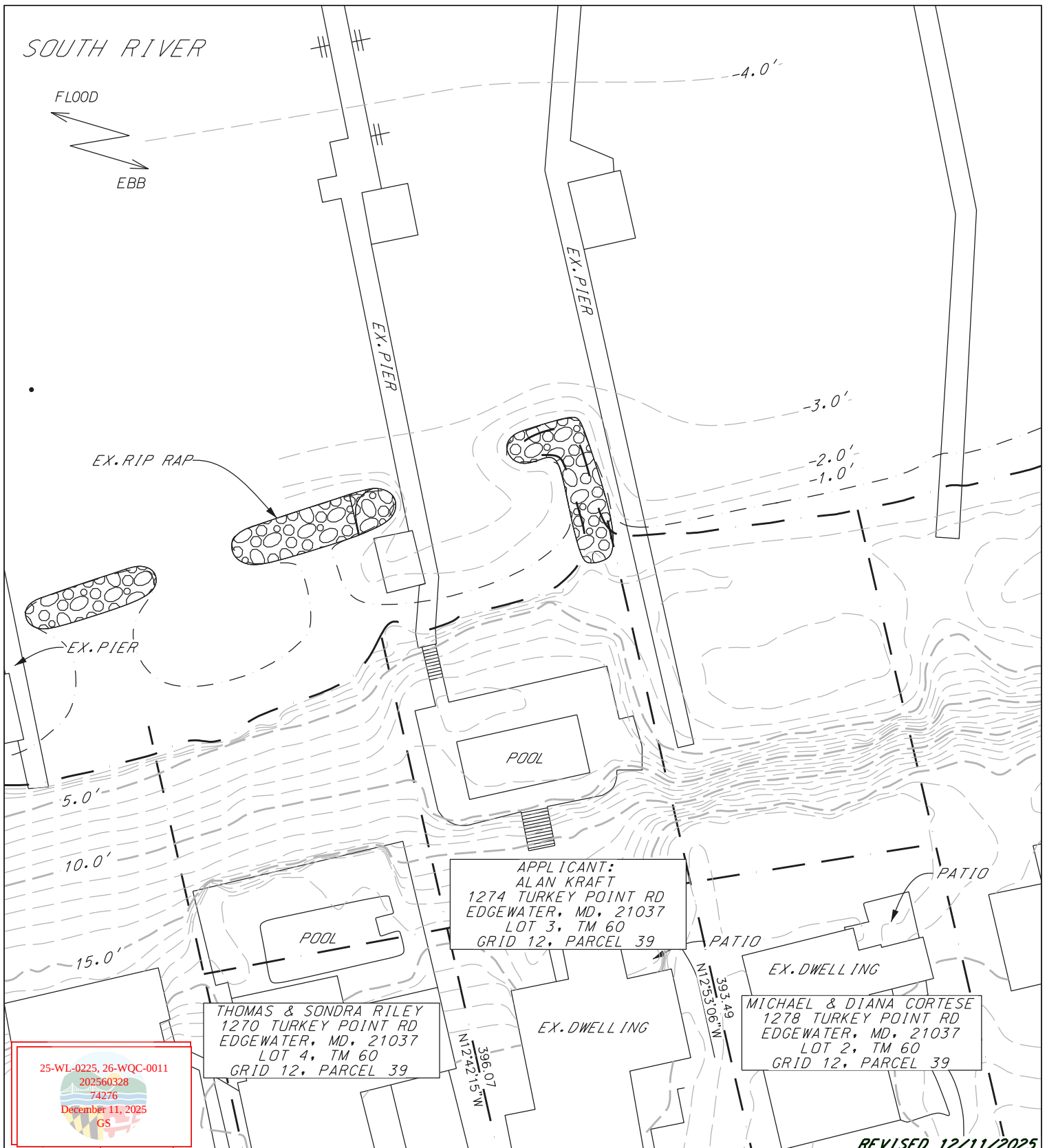
VICINITY MAP

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work

in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 1 of 8 Date:

State: Maryland
at: Turkey Point



REVISED 12/11/2025

Tax Account No.:
1863-0363-1700
Tax Map: 60
Parcel: 39
Deed Ref: 13529/00004
Lot: 3
Zoning: R2
Lot Size: 22,200 SF



EXISTING SITE PLAN
SCALE: 1" = 40'

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work

in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 2 of 8

LON: -76.49670°
LAT: 38.90839°

State: Maryland
at: Turkey Point

NOTE: All dimensions and measurements shall be field verified by contractor.



REVISED 12/11/2025

Tax Account No.:
1863-0363-1700
Tax Map: 60
Parcel: 39
Deed Ref: 13529/00004
Lot: 3
Zoning: R2
Lot Size: 22,200 SF

OVERLAY SITE PLAN SCALE: 1" = 40'

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

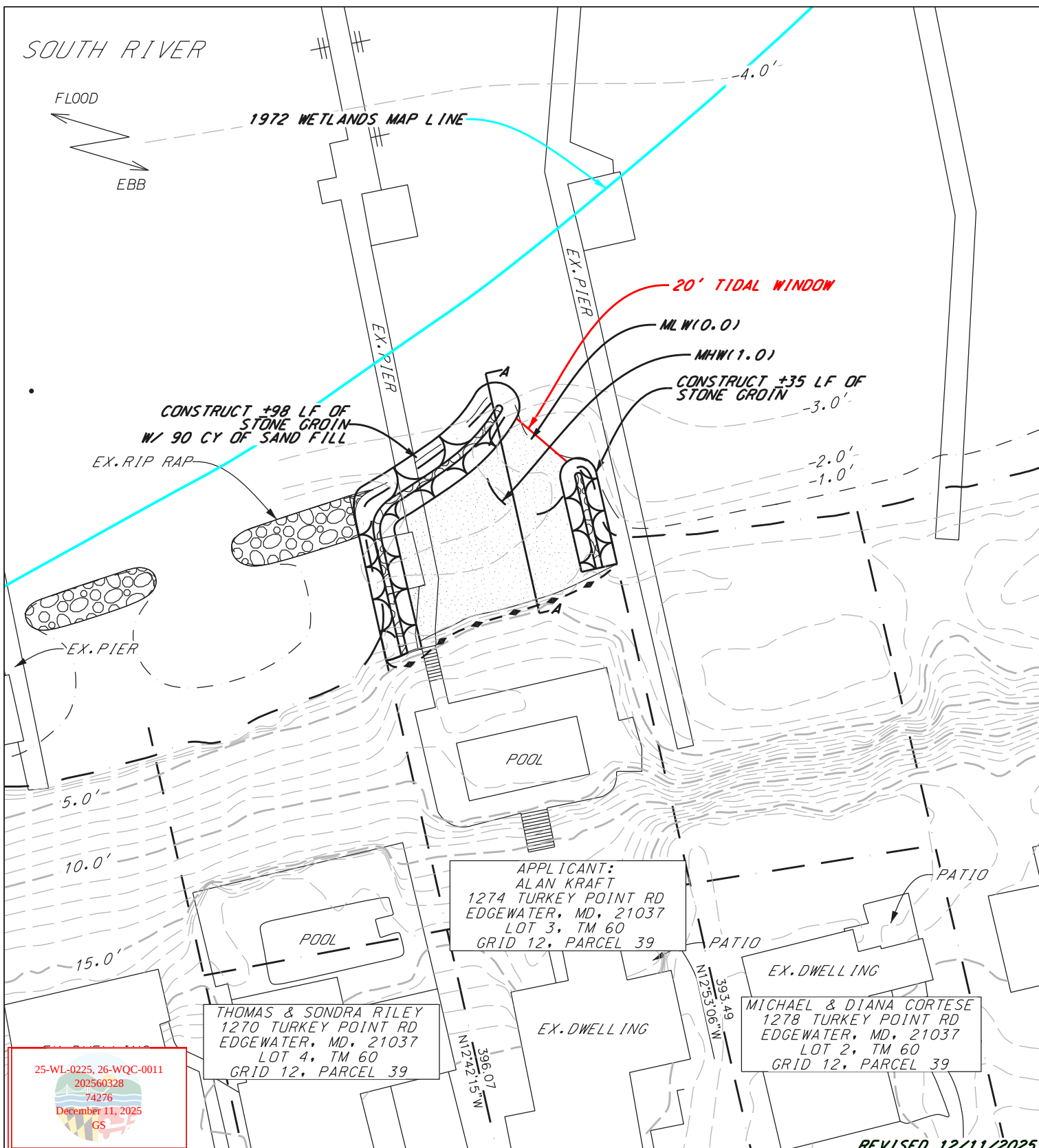
PROPOSED:
Shoreline Work

LON: -76.49670°
LAT: 38.90839°

in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 3 of 8 Date:

State: Maryland
at: Turkey Point

NOTE: All dimensions and measurements shall be field verified by contractor.



25-WL-0225, 26-WQC-0011
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GS

Tax Account No.:
1863-0363-1700
Tax Map: 60
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Lot: 3
Zoning: R2
Lot Size: 22,200 SF

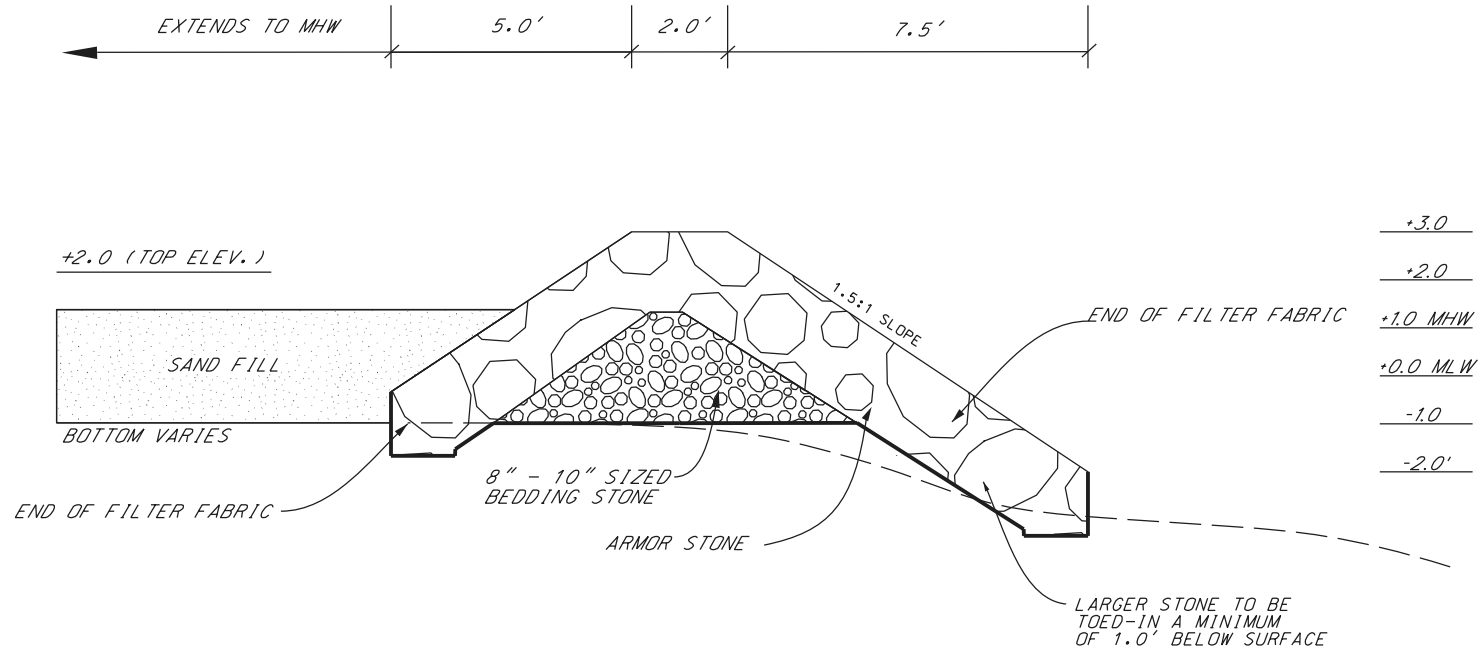
PROPOSED SITE PLAN
SCALE: 1" = 40'
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work
in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 4 of 8 Date:

REVISED 12/11/2025
LON: -76.49670°
LAT: 38.90839°
State: Maryland
at: Turkey Point

NOTE: All dimensions and measurements shall be field verified by contractor.

800 LB. TO 2000 LB. ARMOR STONE
 PLACED AND ROUGHLY CHINKED.
 CHINKING STONES SHALL BE 100 LB.
 TO 300 LB. CHINKING SHALL BE DONE
 AFTER PLACEMENT OF ARMOR STONE
 IS COMPLETED AND ONLY TO FILL THE
 SURFACE VOIDS LARGE ENOUGH TO
 RECEIVE CHINKING SIZE STONES. CORE
 STONE TO BE 8" - 10" IN SIZE.



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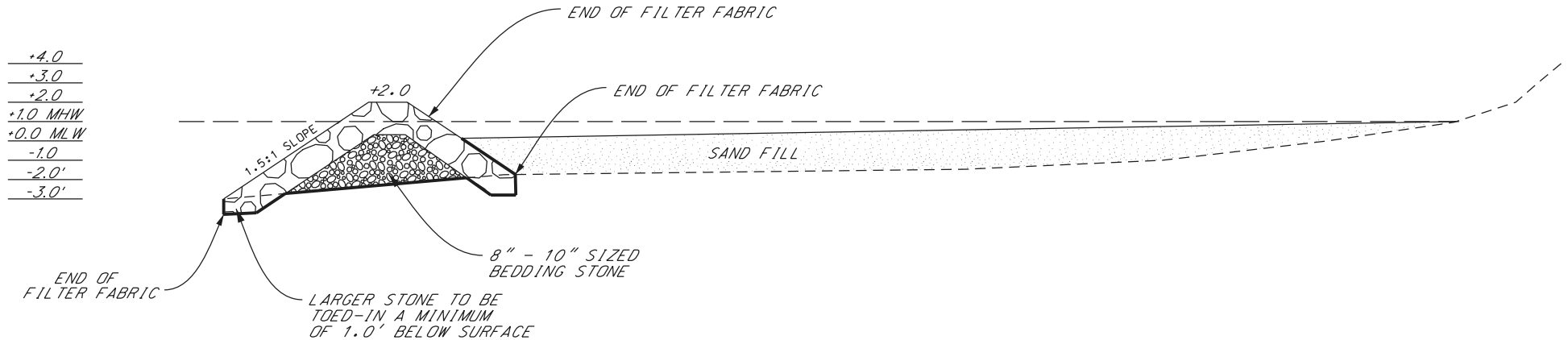
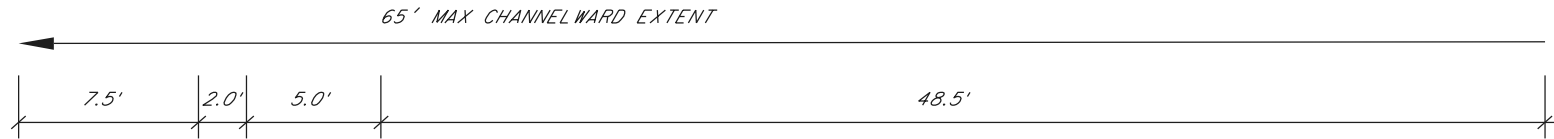
TYPICAL STONE GROIN CROSS SECTION

SCALE: 1:4

Tax Account No.: 1863-0363-1700 Tax Map: 60 Parcel: 39 Deed Ref: 13529/00004 Lot: 3 Zoning: R2 Lot Size: 22,200 SF	STONE SILL CROSS SECTION Waterfront Engineering, Design and Construction, Inc. 8348 Ritchie Hwy. Pasadena, MD 21122 (410) 798-1494 waterfrontdesign@verizon.net	PROPOSED: Shoreline Work in: South River co: Anne Arundel Application by: Alan Kraft Sheet 5 of 8 Date: - - - - - State: Maryland at: Turkey Point
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REVISED 12/11/2025

NOTE: All dimensions and measurements shall be field verified by contractor.



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GS

STONE GROIN CROSS SECTION A

SCALE: 1:8

Tax Account No.: 1863-0363-1700 Tax Map: 60 Parcel: 39 Deed Ref: 13529/00004 Lot: 3 Zoning: R2 Lot Size: 22,200 SF	STONE SILL CROSS SECTION A	PROPOSED: Shoreline Work	
	Waterfront Engineering, Design and Construction, Inc. 8348 Ritchie Hwy. Pasadena, MD 21122 (410) 798-1494 waterfrontdesign@verizon.net	in: South River co: Anne Arundel Application by: Alan Kraft Sheet 6 of 8 Date: .	State: Maryland at: Turkey Point

NOTE: All dimensions and measurements shall be field verified by contractor.

M100

TECHNICAL DATA SHEET

WOVEN MONOFILAMENT GEOTEXTILE

M100 is manufactured using high tenacity monofilament polypropylene yarns woven to form a dimensionally stable network. It has been stabilized to resist degradation due to ultraviolet exposure and is resistant to commonly encountered mildew, insects and soil chemicals, and is non-biodegradable. The high strength of M100 makes it ideal for filtration beneath hard armor applications.

SPECIFICATIONS:

The M100 polypropylene woven fabric will utilize the following characteristics:

PROPERTY	TEST METHOD	MIN. AVG. ROLL VALUE
Grab Tensile Strength	ASTM D4632	370 x 250 lbs
Grab Tensile Elongation	ASTM D4632	15%
CBR Puncture	ASTM D6241	950 lbs
Wide Width Tensile Ultimate	ASTM D4595	2700 x 1740 lbs/ft
Trapezoid Tear Strength	ASTM D4533	100 x 60 lbs
UV Resistance @ 500 hrs	ASTMD4355	90%
Apparent Opening Size (AOS)	ASTM D4751	70 US Sieve
Permittivity (sec ⁻¹)	ASTM D4491	0.28 (sec ⁻¹)
Flow Rate	ASTM D4491	18 gpm/ft ²

Values quoted above are the result of multiple tests conducted at an independent testing facility. M100 meets or exceeds values listed.

Mullen burst ASTM D-3786 has been removed. It is not recognized by ASTM D-35 on Geosynthetics.

Puncture ASTM D-4833 has been removed. It is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D-6241.

PACKAGING:

Roll Width	6 ft	12 ft.
Roll Length	300 ft.	300 ft.
Roll Area	200 yd ²	400 yd ²

Disclaimer: ACF Environmental assumes no liability for the completeness or accuracy of this information or the ultimate use of this information. This document should not be construed as engineering advice. Always consult the project engineer for project specific requirements. The end user assumes sole responsibility for the use of this information and product.

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For more information about our products, contact Inside Sales at 800.448.3636 or email at info@acfenv.com



25-WL-0225, 26-WQC-0011
202560328
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December 11, 2025
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*FILTER FABRIC FOR
STONWORK*

Tax Account No.:
1863-0363-1700
Tax Map: 60
Parcel: 39
Deed Ref: 13529/00004
Lot: 3
Zoning: R2
Lot Size: 22,200 SF

STONE FILTER
FABRIC DETAIL
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work

in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 7 of 8 Date:

State: Maryland
at: Turkey Point

SITE PLAN NOTES AND DISCLAIMERS

1. PROPERTY LINES SHOWN HEREON HAVE BEEN TAKEN FROM FIELD EVIDENCE, AND/OR AVAILABLE DEEDS AND PLATS AND SHOULD NOT BE CONSTRUED TO BE REPRESENTATIVE OF THE ACCURACY OF A BOUNDARY SURVEY. THIS IS NOT A BOUNDARY SURVEY! THIS SITE PLAN WAS DEVELOPED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REFLECT ENCUMBRANCES, DEDICATIONS, AND/OR RESTRICTIONS WHICH MAY EXIST AND COULD POTENTIALLY BE REVEALED THROUGH A THOROUGH TITLE EXAMINATION.
2. ALL SHORELINE WORK WILL BE CONDUCTED BY WATER. STOCKPILE AREA WILL BE STORED ON BARGES.
3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ANY PROPOSED STRUCTURES IN RELATION WITH THE PROPERTY CORNERS. NEIGHBORING STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE IN LOCATION AND SHOULD NOT BE USED TO LOCATE NEW OR REPLACEMENT STRUCTURES. A SURVEY IS REQUIRED TO LOCATE ANY NEW OR REPLACEMENT STRUCTURES. THIS SURVEY MUST BE PERFORMED BY A STATE OF MARYLAND LICENSED SURVEYOR.
4. THIS SITE PLAN HAS BEEN PREPARED TO CONSTRUCT 2 STONE GROINS AND INSTALL CLEAN SAND FILL. ANY CHANGE TO THESE PLANS WILL REQUIRE A SEPARATE PERMIT FROM ANNE ARUNDEL CO., FOR WORK ABOVE MHW. IF ANY WORK WILL BE BELOW MHW OR WITHIN TIDAL OR NON-TIDAL WETLANDS THEN ADDITIONAL PERMITS ARE REQUIRED FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE ARMY CORPS OF ENGINEERS. THIS WILL REQUIRE MORE DETAILS AND INFORMATION. THIS DRAWING SHALL NOT BE UTILIZED FOR SUCH LICENSES OR PERMITS THAT ARE NOT SPECIFICALLY OUTLINED ON THIS PLAN.
5. CONTACT MS. UTILITY AT LEAST 48 HOURS PRIOR TO START OF ANY ON LAND OR IN WATER WORK. ALL UTILITIES MUST BE LOCATED PRIOR TO ANY CONSTRUCTION. THIS PLAN SHALL NOT BE UTILIZED FOR LOCATING ANY UTILITIES EITHER ABOVE OR BELOW GROUND.
6. TOPOGRAPHY WAS OBTAINED FROM 2020 ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS SURVEY DATA. WATER DEPTHS ARE TIED TO A VERTICAL DATUM OF 0.0 FEET WHICH IS EQUAL TO MEAN LOW WATER.

SITE DATA

SITE DATA:

TOTAL LOT SIZE = 22,200 SF
CRITICAL AREA DESIGNATION = LDA
ZONING = R2

LOT COVERAGE:

HOUSE = 2,361 SF
DRIVEWAY AND WALKWAYS = 8,931 SF
ACCESSORY STRUCTURES = 0 SF
TOTAL EXISTING LOT COVERAGE = 11,292 SF
LOT COVERAGE CREATED = 0 SF
FINAL LOT COVERAGE = 11,292 SF OR 0% (NO CHANGE)

WOODLANDS DATA:

EXISTING WOODLANDS = 0 SF (APPROXIMATELY)
EXISTING MARSH = 0 SF
WOODLANDS REMOVED = 0 SF
REFORESTATION REQ. IS \$1.50 X 0 = \$0.00
INSPECTION FEE = \$0.00 X 0.07 = \$0.00
TOTAL FEE = \$0.00

LEGEND

EXISTING CONTOUR	
EX. MEAN LOW WATER (MLW)	
EX. MEAN HIGH WATER (MHW)	
EXISTING TREE LINE	
PROPERTY LINE	
EXISTING RIP-RAP	
EXISTING/PROPOSED IMPROVEMENTS	
LIMIT OF DISTURBANCE	
TURBIDITY CURTAIN	
PROPOSED STONE	

25-WL-0225, 26-WQC-0011

202560328

74276

December 11, 2025

GS

Tax Account No.:
1863-0363-1700
Tax Map: 60
Parcel: 39
Deed Ref: 13529/00004
Lot: 3
Zoning: R2
Lot Size: 22,200 SF

SITE PLAN NOTES AND DATA

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work

in: South River
co: Anne Arundel
Application by: Alan Kraft
Sheet 8 of 8 Date:

State: Maryland
at: Turkey Point

26-WQC-0011 (package)

Final Audit Report

2026-08-04

Created:	2026-08-03
By:	Jonathan Stewart (jon.stewart@maryland.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAA8X-5tALgGYDOdCZNq1KTUUCYBEBMmj81

"26-WQC-0011 (package)" History

-  Document created by Jonathan Stewart (jon.stewart@maryland.gov)
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