



**RESILIENCE
AUTHORITY**
Annapolis and Anne Arundel County



Beverly Triton Nature Park Phase II Living Shoreline

Schematic Design Public Meeting.

Edgewater Library
25 Stepney Ln
Edgewater, MD 21037
5:30 pm



OCTOBER 1, 2026



Welcome

Thank you for coming to this evening to learn about
the Schematic Design for
Beverly Triton Nature Park Phase II Living Shoreline.



Introductions

- Resilience Authority of Annapolis and Anne Arundel County

- o Gabe Cohee (Project Manager) gabe.cohee@aacounty.org

- Department of Recreation and Parks

- o Rich Lefebure (Project Manager) rplefe25@aacounty.org

- o Bruce Bruchey (Chief, Planning & Construction)

- BayLand Consultants & Designers, Inc.

- o Anna Johnson, PE (Design Lead)

- o Joshua Hansen (Designer)

Meeting Information

- Recording and Access
 - This will be an in-person meeting and **will be audio recorded**
 - The recording will be posted on the Office of Planning and Zoning (OPZ) website within 24 hours of the meeting.
- Questions and Answers
 - Please hold all questions until the end of the presentation
 - Meeting Minutes will be shared with the Public. The Meeting Minutes will be posted on the DRP website; Posted on the OPZ Community Meetings website; and Mailed to the residents that received the mailed notice of this meeting
 - Additional questions, up to 14 days beyond tonight's meeting, may be submitted through the Office of Planning and Zoning website: <https://www.aacounty.org/planning-and-zoning/development/community-meetings/community-meeting-calendar?id=1574564>

Purpose & Agenda

- Meeting Purpose
 - Overview of the project features
 - Solicit feedback on 30% design
- Meeting Agenda
 - Background
 - Existing Conditions
 - Project Goals
 - Proposed Design Components
 - Schedule
 - Construction Activities
 - Contact Information
- Q&A on Project



Community Meeting per Code § 17-2-107

- Funding: Resilience Authority of Annapolis and Anne Arundel County / Anne Arundel County
- Address: Beverly Triton Nature Park, 1202 Triton Beach Road, Edgewater, MD 21037
- Property Owner: Public (Anne Arundel County)
- Grading Permit Number: TBD
- Zoning: OS – Open-Space
- Water & Sewer Type: No Public Water / Public Sewer
- Impacted Schools: None
- Number of Proposed Lots: None
- Type of Proposed Product: Shoreline Improvement Project
- Approximate Road Configuration: None
- Limits of Disturbance = TBD / Approximately 2.77 Acres
- Environmental Features On-Site: Critical area, floodplain, tidal waters, beaches, tidal wetlands, and shoreline habitat
- Modifications Anticipated: None
- Impacts of Proposed Development on Environmental Features: Critical Area, floodplain, tidal waters, beaches, and tidal wetlands associated with shoreline stabilization, sand nourishment, stone structures, vegetation establishment, and stormwater outfall improvements
- Critical Area Designation: RCA – Resource Conservation Area
- Conceptual Stormwater Management: N/A – project includes repair/replacement of existing stormwater outfalls but does not propose conventional stormwater management facilities

Reach Map



Project Background

- 340-acre Chesapeake Bay park on the Mayo Peninsula at the end of MD 214.
- Approximately 6,150 LF/ 1 mile of natural shoreline
- Passive recreation: beach access, trails, fishing, and cartop boat launch.
- Phase 1 completed in 2020-2021: breakwater extensions and living shorelines
- The breakwaters were originally built in the late 90s and early 00s.



Existing Conditions – Reach 3

- Reach 3 is approximately 650 feet long with a 25–40-foot-wide beach.
- Existing protection features include a stone groin, low-profile revetment, Phase 1 breakwater, and a dilapidated central groin/outfall structure.
- Outfall 1, a 36-inch RCP from Deep Pond, is deteriorated, with exposed pipe, cracked joints, and failed stone/concrete protection.



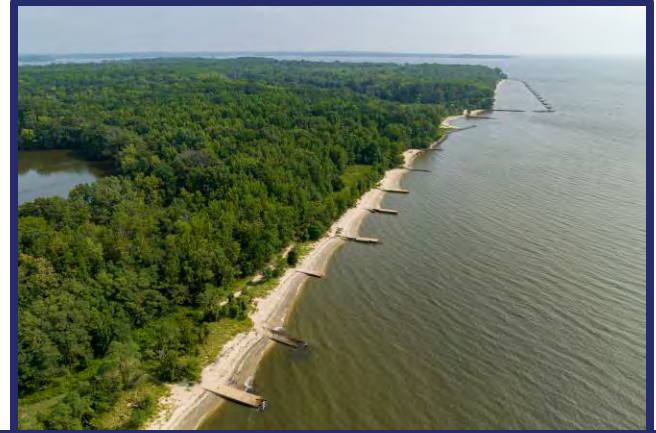
Existing Conditions – Reach 4

- Approximately 300 linear feet of shoreline
- Existing low-profile stone revetment with adjacent high marsh grasses.
- Relatively flat high marsh transitions to 4-6 ft upland banks along western portion of the reach
- Shallow swale conveys drainage from pond to the north, terminating near the base of the Phase 1 breakwater (orange arrow).



Existing Conditions – Reach 5

- Approximately 1,100 feet long, with a 30–50-foot-wide beach.
- Shoreline includes high marsh grasses and banks ranging from 1–4 feet high.
- Contains nine deteriorated concrete and stone groins.
- Erosion averages approximately 2.2 ft/year, with localized areas up to 3.4 ft/year.
- Outfall 2 is deteriorated, with damaged pipe sections and failed stone/concrete protection.



Existing Conditions – Reach 7

- Existing southern breakwater system includes 12 detached breakwaters.
- Shoreline behind the breakwaters is eroding at approximately 0.8 ft/year.
- Breakwaters average approximately 90 feet long, with 65-foot gaps.
- Beach width averages approximately 15 feet.
- Water depths near the breakwaters are generally -1.5 to -2 feet MLW.
- Two existing 15-inch RCP stormwater outfalls discharge through Reach 7; the exposed ends are broken/deteriorated and require retrofit to maintain stormwater conveyance.



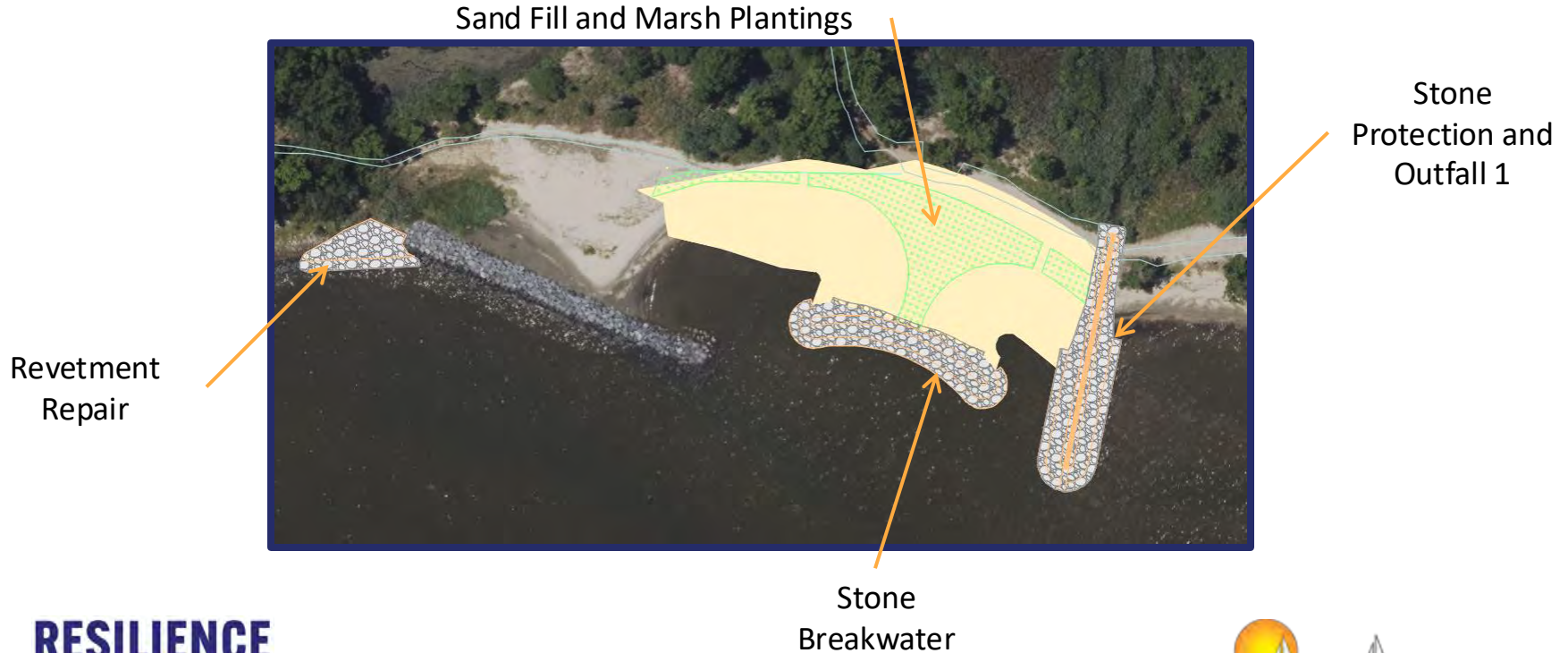
Existing Conditions – Reach 7



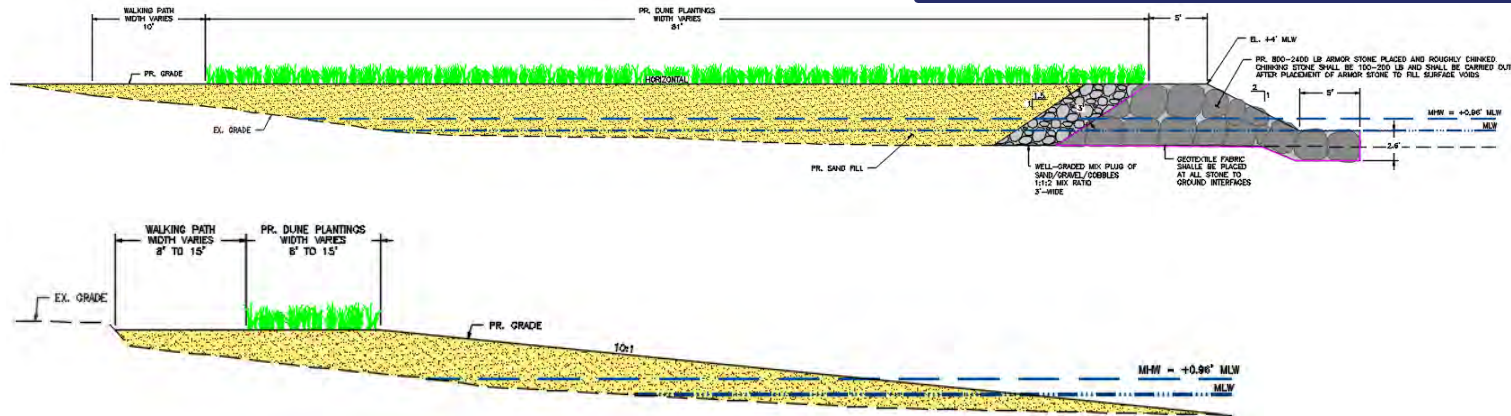
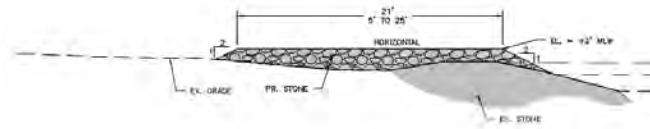
Project Goals

- Phase 2 addresses ~1,928 LF of vulnerable shoreline in Reaches 3, 4, 5, and 7.
- Reduce ongoing erosion.
- Improve coastal resilience to wave action and storm events.
- Protect critical park infrastructure, including trails, shoreline access, and stormwater outfalls.
- Restore and enhance beach and shoreline habitat through nourishment and nature-based stabilization.
- Improve long-term shoreline stability while maintaining sediment transport and natural coastal processes.
- Project includes sand nourishment, breakwater/groin retrofits, breakwater installation, marsh plantings, trail restoration, revetment repair, and stormwater outfall upgrades.

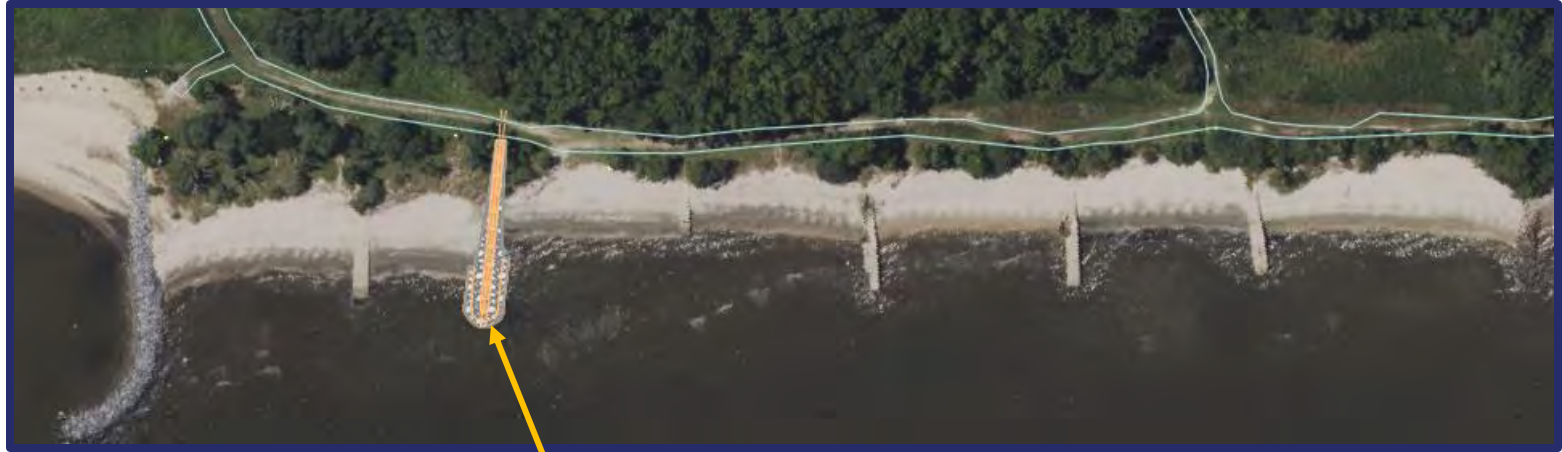
Proposed Design – Reaches 3 and 4



Reach 3 and 4 – Profiles



Proposed Design – Reach 5



Stone Protection and
Outfall 2



Proposed Design – Reach 7

Outfall 4 and Stone
Protection

5'-Wide Beach
Grass Strip

Groin Repair

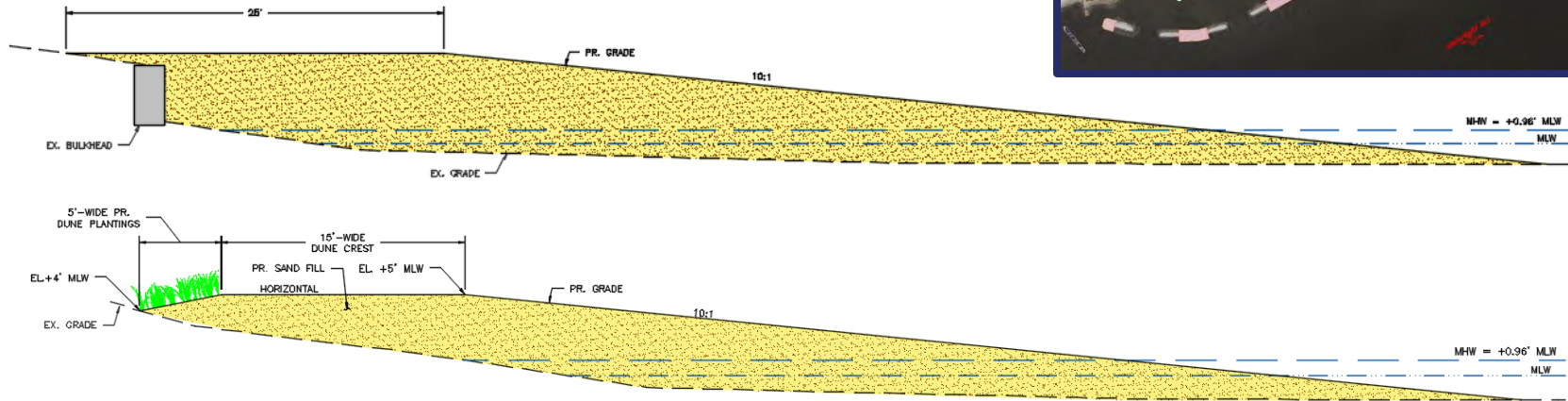
Beach Nourishment

Outfall 3 and
Stone
Protection

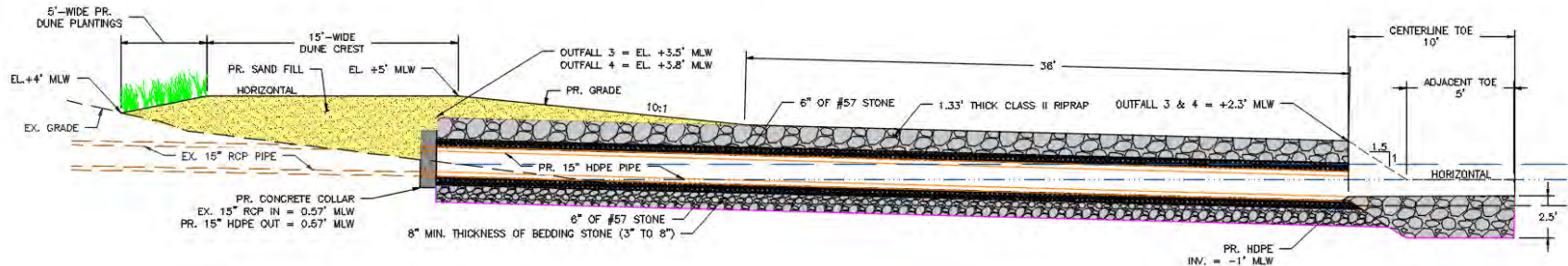
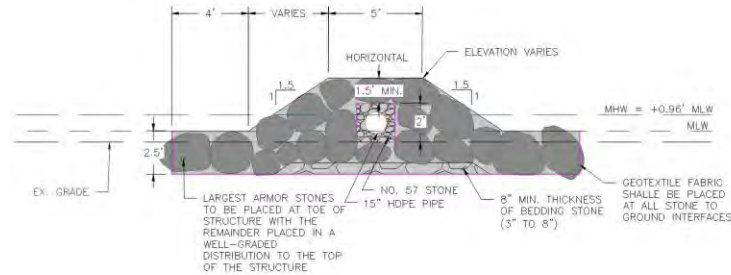


Stone Breakwater Retrofit

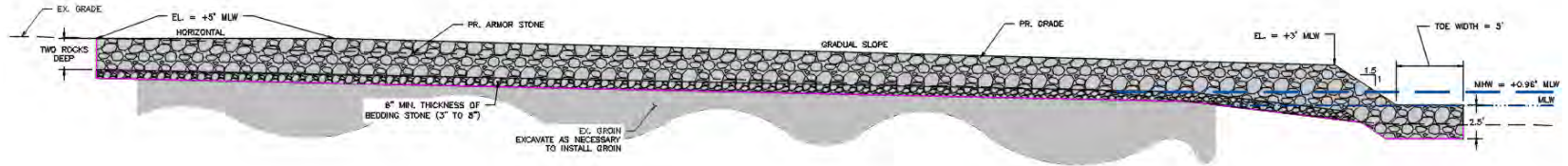
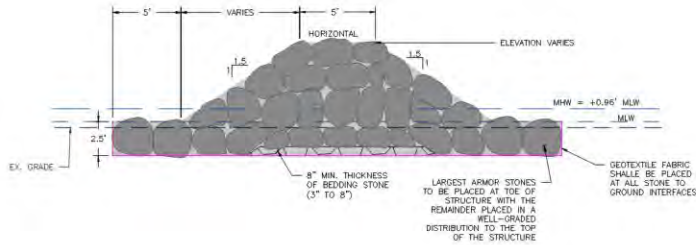
Reach 7 – Profiles



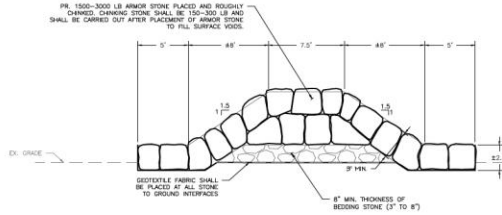
Outfalls 3 & 4 – Profiles & Cross-sections



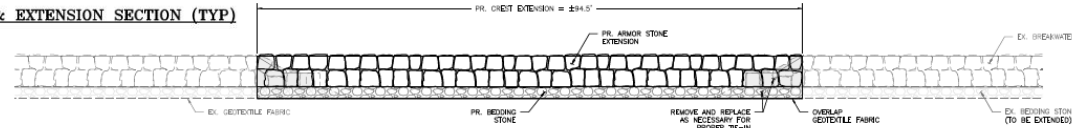
Proposed Design – Groin Repair



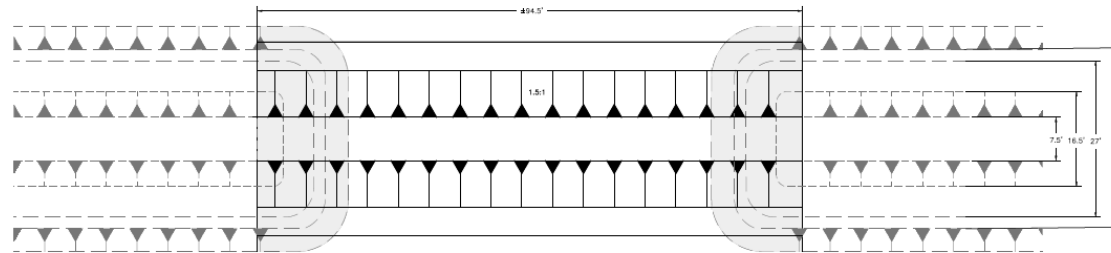
Proposed Design – Breakwater Retrofit



PR. STONE BREAKWATER RETROFIT & EXTENSION SECTION (TYP)



PR. STONE BREAKWATER RETROFIT PROFILE (TYP)



PR. STONE BREAKWATER RETROFIT PLAN (TYP)

Schedule

- Schematic Design (30%) – Summer 2026  We are here
- Pre-final Design (60%) – Fall 2026
- Complete Permitting and Construction Documents – Winter 2026/27
- Construction – Spring/Summer 2027

Construction Sequence

- Installation of breakwater retrofits, breakwater, groins, and outfalls
 - Access by Water Only for this work
- Installation of beach nourishments
 - Access by Water and Land
- Planting of dune and shoreline areas

Questions?

- Contact Information
- Gabe Cohee, Project Manager (gabe.cohee@aacounty.org)