

April 17, 2026

Mr. Jake Holness
Regulatory Services Coordination Office
Maryland Department of the Environment
Water Management Administration
1800 Washington Boulevard, Suite 430
Baltimore, Maryland 21230

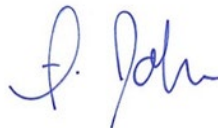
Dear Mr. Holness:

Attached is the Joint Permit Application package for the Make Cambridge Resilient Flood Mitigation Project at Cambridge, MD in Dorchester County. The new application package includes seven (7) copies of the following:

- Application Cover
- Application Index
- Joint Permit Application
- Permit Drawings
- Public Notice Billing Approval Form
- WQC Public Billing Approval Form
- Adjoining Riparian Property Owner, HOA, Local Officials Notification Form
- Adjacent Property Owners List
- Alternative Analysis

The permit applicant for the project is the City of Cambridge. BayLand Consultants & Designers, Inc. will act as the agent for this project. Please direct all inquiries and send all correspondence concerning this project to BayLand. If you have any questions, or require additional information, please contact me at (410) 694-9401 or via email, ajohnson@baylandinc.com.

Sincerely,



Anna Johnson, P.E.
Project Manager

Make Cambridge Resilient Flood Mitigation

JOINT PERMIT APPLICATION

APRIL 2026

Prepared for:

The City of Cambridge

Prepared by:



"Integrating Engineering and Environment"

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

APPLICATION INDEX

Joint Permit Application.....	
Permit Drawings.....	
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Critical Area Buffer Notification Form	
Adjoining Riparian Property Owner, HOA, Local Officials Notification Form	
Adjacent Property Owners List.....	
Alternatives Analysis.....	

FOR AGENCY USE ONLY	ABBREVIATED JOINT FEDERAL / STATE APPLICATION FOR THE ALTERATION OF ANY TIDAL WETLAND AND/OR TIDAL WATERS IN MARYLAND	MDE Permit #:	
		Tracking #:	
MDSPGP Category:	<input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> 240-day <input type="checkbox"/> 90-Day <input type="checkbox"/> MHT <input type="checkbox"/> WHD <input type="checkbox"/> PN	MDE AI #:	
This abbreviated application should only be used for projects that are eligible for federal authorization under the Maryland State Programmatic General Permit (MDSPGP).		MDE Reviewer:	County:

Pre-Application Meeting Held? <input type="checkbox"/> with MDE <input type="checkbox"/> with USACE	AI# (if given):	*MAILING INSTRUCTIONS LOCATED ON 2 ND PAGE OF THIS APPLICATION*
Reviewer's Name(s):		

Applying for:	<input type="checkbox"/> Authorization <input type="checkbox"/> Modification	MDE APPLICATION REVIEW FEE REQUIRED: PLEASE REFER TO THE MDE WEBSITE: http://mde.maryland.gov/programs/Water/WetlandsandWaterways/Documents/Fee-Schedule-July2017.pdf
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(Applicant will be copied on all correspondence, unless they opt out, BY INITIAL AND SIGNATURE, in Section 12)

1. APPLICANT INFORMATION: (Please note that the applicant is not the contractor/agent applying on behalf of a property owner)

Name: _____ Home Telephone: _____

Address: _____ Email Address: _____

City: _____ State: _____ Zip: _____

2. PROPERTY OWNER INFORMATION: (If different from the Applicant)

Name: _____ Home Telephone: _____

Address: _____ Email Address: _____

City: _____ State: _____ Zip: _____

3. AUTHORIZED AGENT / PRINCIPAL CONTACT INFORMATION:

Name: _____ Telephone: _____

Address: _____ Email Address: _____

City: _____ State: _____ Zip: _____

4. CONTRACTOR INFORMATION (If currently unknown, required to be provided to MDE's Tidal Wetland Division prior to construction of project)

Company Name: _____

Principal Contact: _____ Email Address: _____

5. PROJECT DESCRIPTION: (Attach additional pages if necessary)

6. PROJECT PURPOSE: (Check all that apply)

<input type="checkbox"/> Improve Navigable Access	<input type="checkbox"/> Shore Erosion Control	<input type="checkbox"/> Fill
<input type="checkbox"/> Beach Nourishment	<input type="checkbox"/> Create/Improve Habitat	<input type="checkbox"/> Erosion/Sediment Control
<input type="checkbox"/> Create/Improve Infrastructure	<input type="checkbox"/> Utility Installation	<input type="checkbox"/> Residential/Commercial Development
<input type="checkbox"/> Other: (describe) _____		

7. PROJECT LOCATION: (If project site has no address, please include the lot # and/or nearest address with a clear description of the site)

County: _____ Name of Waterway: _____

Site Address or Location: _____

Latitude: _____ Longitude: _____

Directions from nearest intersection of two state roads: _____

8. FEDERALLY AUTHORIZED CIVIL WORKS PROJECTS: Is the project located in, on, or adjacent to a U.S. Army Corps of Engineers' federally authorized civil works project, structure, property, or easement (e.g., federal navigation channel, flood control levees, dams and reservoirs, lake property, etc.)? Yes No

If yes, has a review pursuant to 33 U.S.C. 408 (Section 408) been initiated? Yes No

9. BEST MANAGEMENT PRACTICES VERIFICATION: I verify that my project will meet all Endangered Species Act Best Management Practices applicable to work in tidal waters and wetlands as required by the MDSPGP (see Section VII.B.4.c.i-iii).

Yes No Unknown

Refer to the application instructions and the MDSPGP for additional information regarding these Best Management Practices.

10. TYPE OF PROJECT (check all that apply and provide all applicable information):

This abbreviated application should only be used for projects that are eligible for federal authorization under the Maryland State Programmatic General Permit (MDSPGP). Please refer to the MDSPGP for eligible activities.

Work Proposed	Overall Length	Average Width	Volume of Fill Material	Total Area Impacted (Sq. Ft.)		Maximum Distance Channelward from Mean High Water Line (Ft.)	New Work	Maintenance /Repair	Work Started/ Completed
	(Ft.)	(Ft.)	(cu. yards.)	Permanent	Temporary				
<input type="checkbox"/> Bulkhead	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Revetment	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Breakwater	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Groins, Jetties, or Low Profile Sill	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Living Shoreline (vegetated area)	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Pier	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Finger Pier	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Platform	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Pile(s) (#: _____) <input type="checkbox"/> Osprey Pole	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Boat Lift (including support piles)	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Boat Ramp	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Utility Line	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Construction Access/Mats	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Dredging (Maintenance or New Minor)	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> <input type="checkbox"/> Hydraulic / <input type="checkbox"/> Mechanical	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
<input type="checkbox"/> Other:	_____	_____	_____	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *

***For any work started or completed, please clearly and accurately depict those portions of the project on the plans**

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.

12. STATE CERTIFICATION AND FEDERAL PRIVACY ACT STATEMENT:

Application is hereby made for a permit or permits to authorize the work described in this application. I hereby designate and authorize the agent named above to act on my behalf in the processing of this application and to furnish any information that is requested. I certify that the information on this form and on the attached plans and specifications is true and accurate to the best of my knowledge and belief. I understand that any of the agencies involved in authorizing the proposed works may request information in addition to that set forth herein as may be deemed appropriate in considering this proposal. I grant permission to the agencies responsible for authorization of this work, or their duly authorized representative, to enter the project site for inspection purposes during working hours. I will abide by the conditions of all permit(s) or license(s) if issued and will not begin work without the appropriate authorization. I also certify that the proposed works are consistent with Maryland's Coastal Zone Management Plan.

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers, 33 CFR 320-332. Principal Purpose: Information provided on this JPA will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice. Submission of requested information is voluntary, however, if information is not provided, the permit application cannot be evaluated nor can a permit be issued.

All information, including permit applications and related materials, submitted to MDE may be subject to public disclosure consistent with the Maryland Public Information Act, §4-101 *et seq.*, General Provisions Article of the Maryland Code.

I am the property owner/applicant and do not want to be contacted by MDE. All correspondence should occur with my authorized agent /principal contact designated in Section 3, located on the 1st page of this application. (By initializing the box, you are acknowledging that you will not receive any correspondence directly from MDE). I understand a copy of MDE's final decision regarding this application will be sent to me. This opt-out option does not apply to the U.S. Army Corps' correspondence, which will continue to be with the applicant/permittee.

PROPERTY OWNER MUST SIGN:

Date:

IMPORTANT:

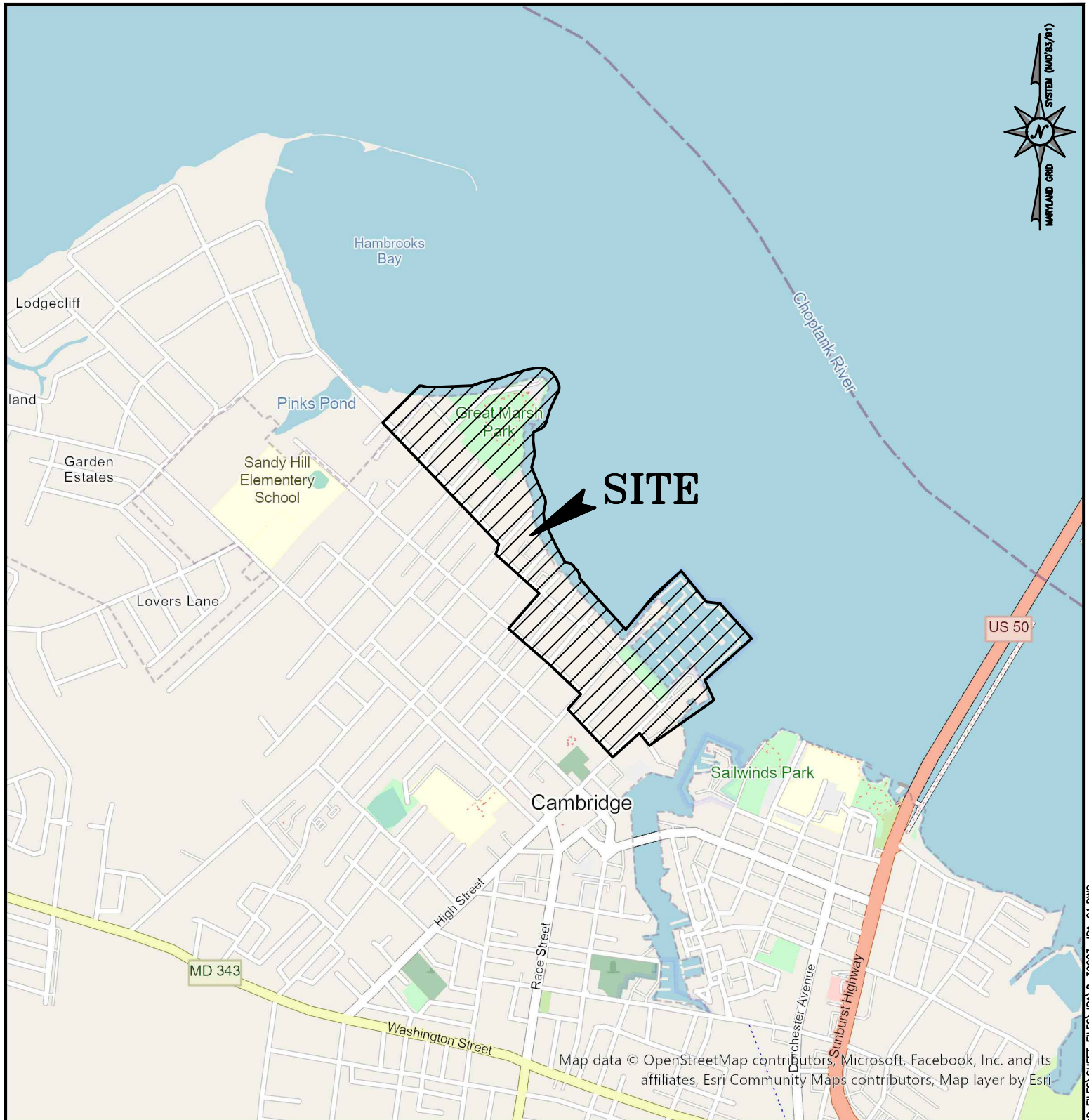
PLEASE MAIL SEVEN (7) COPIES OF THE APPLICATION, SITE PLAN, AND VICINITY MAP (WITH PROJECT LOCATION PINPOINTED) TO:

MDE/WATER AND SCIENCE ADMINISTRATION
REGULATORY SERVICES SECTION
MONTGOMERY PARK BUSINESS CENTER – STE 430
1800 WASHINGTON BOULEVARD
BALTIMORE, MD 21230-1708
(410) 537-3762

SEND THE APPLICABLE APPLICATION FEE AND A COPY OF THE FIRST PAGE OF THE APPLICATION TO:

MDE
P.O. BOX 2057
BALTIMORE, MD 21203-2057
PCA: 13910 OBJ: 4142

FOR FURTHER INSTRUCTIONS, PLEASE REFER TO OUR WEBSITE
<http://mde.maryland.gov/programs/Water/WetlandsandWaterways>



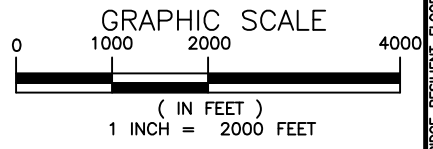
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MAKE CAMBRIDGE RESILIENT FLOOD MITIGATION PROJECT AT THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

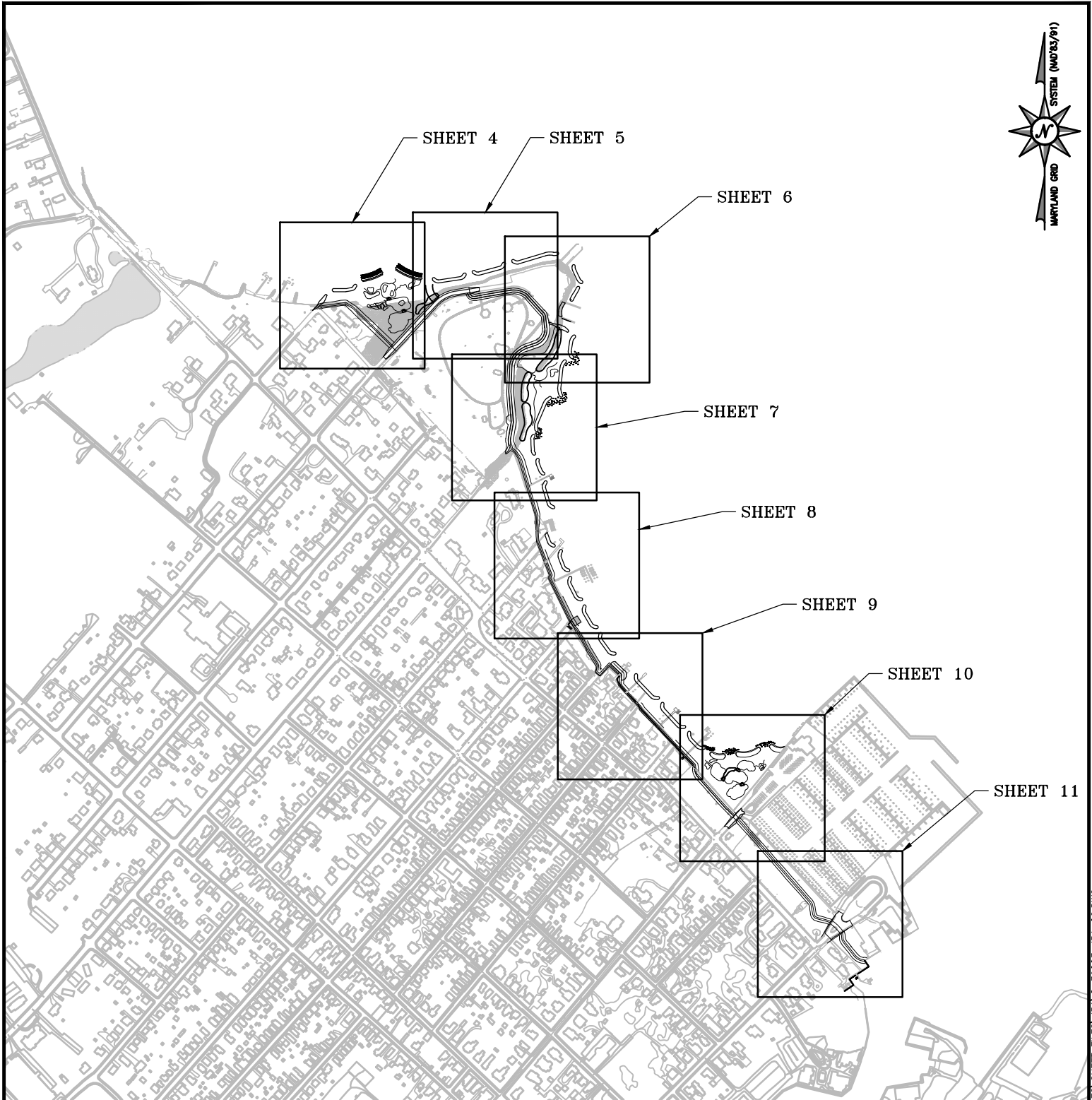
VICINITY MAP

DATE: APRIL 2026 SHEET 1 OF 35




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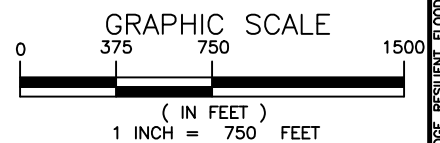


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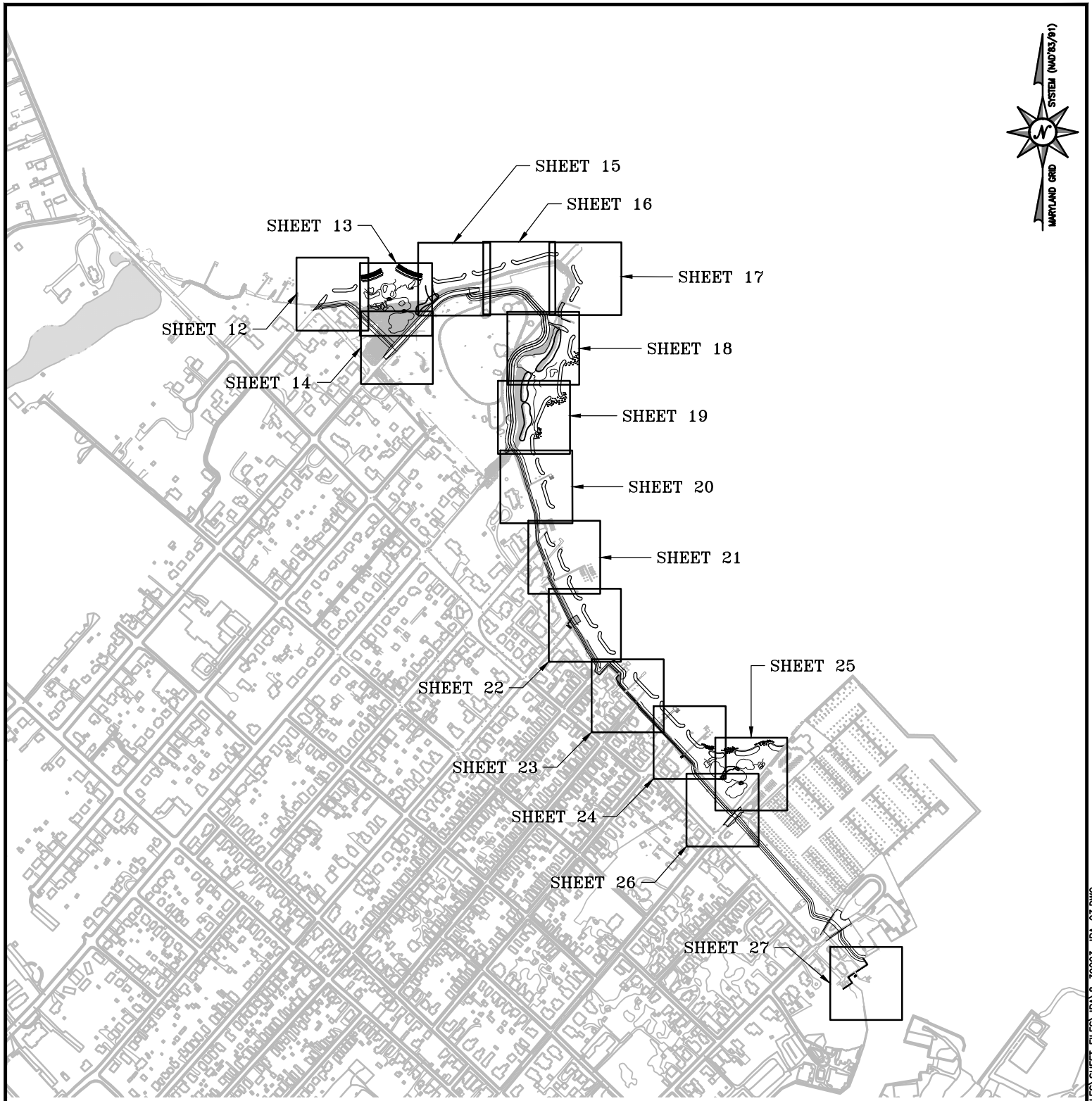
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KEY SHEET

DATE: APRIL 2026 SHEET 2 OF 35



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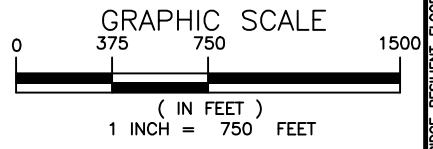


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KEY SHEET

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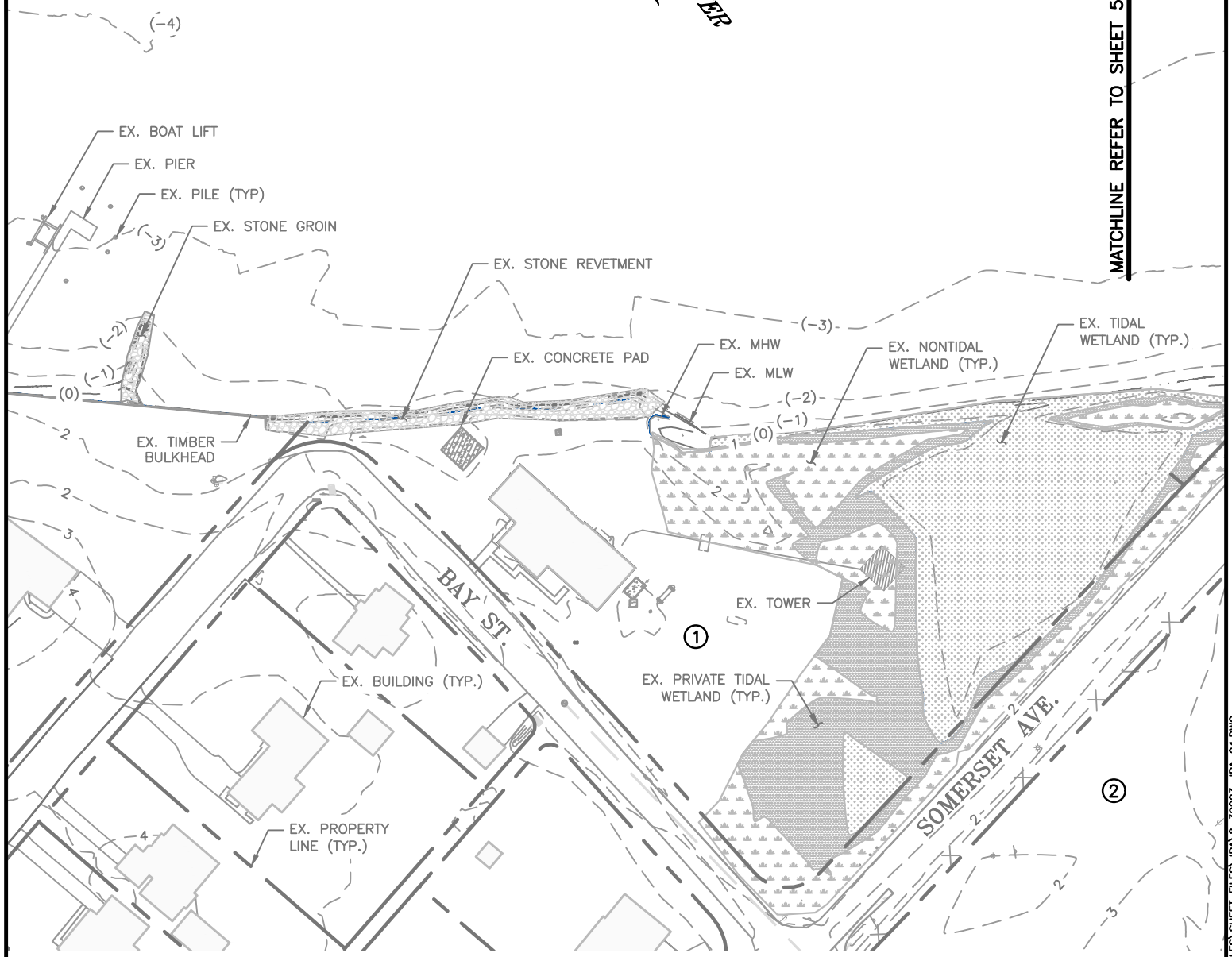
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CHOPTANK RIVER

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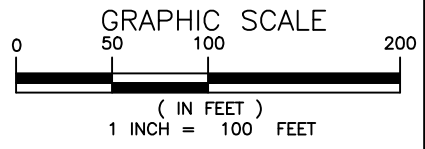
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EXISTING CONDITIONS

DATE: APRIL 2026 SHEET 4 OF 35

PROPERTY OWNER INFO
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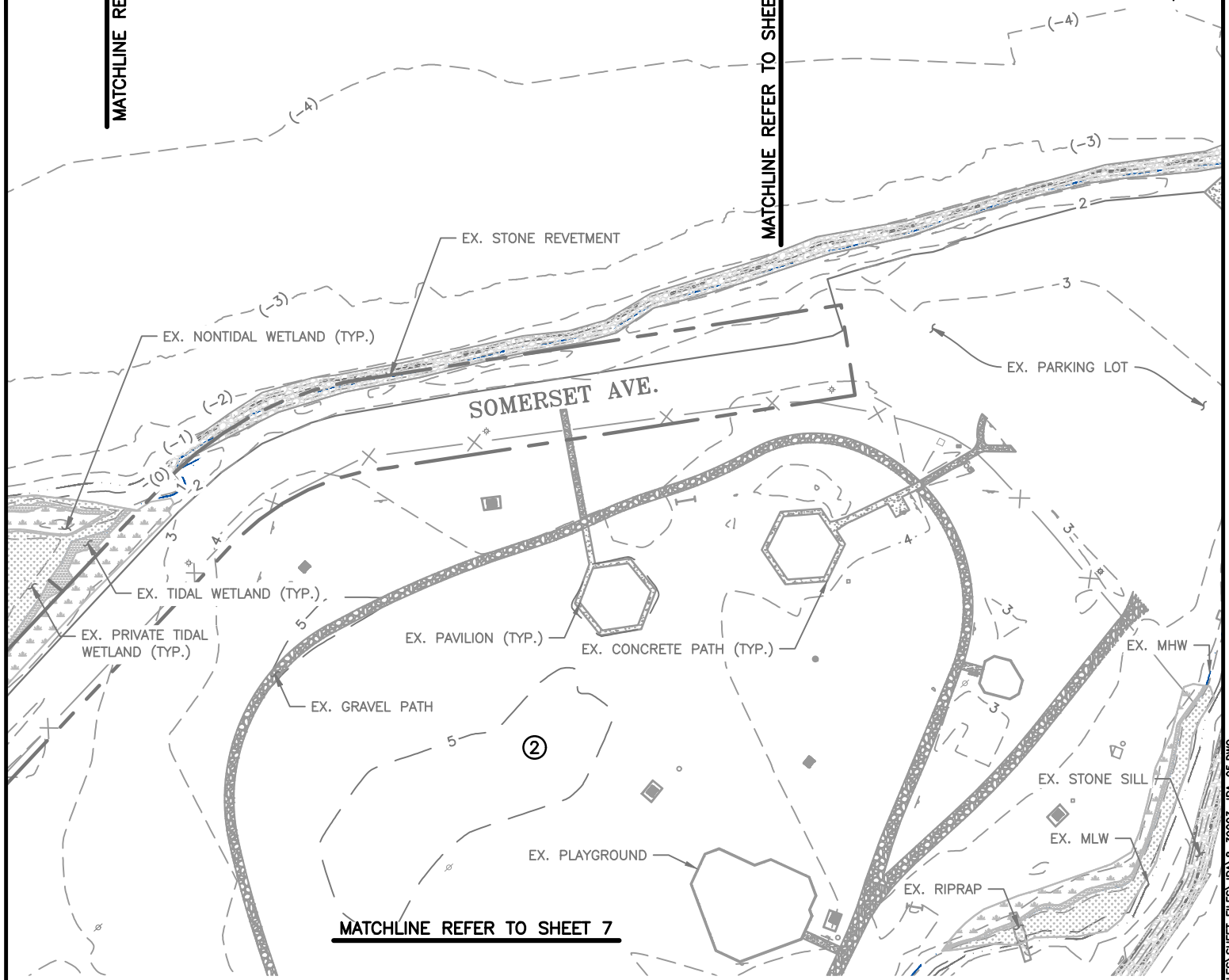
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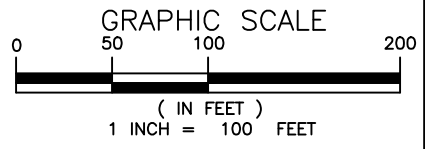
MAKE CAMBRIDGE RESILIENT
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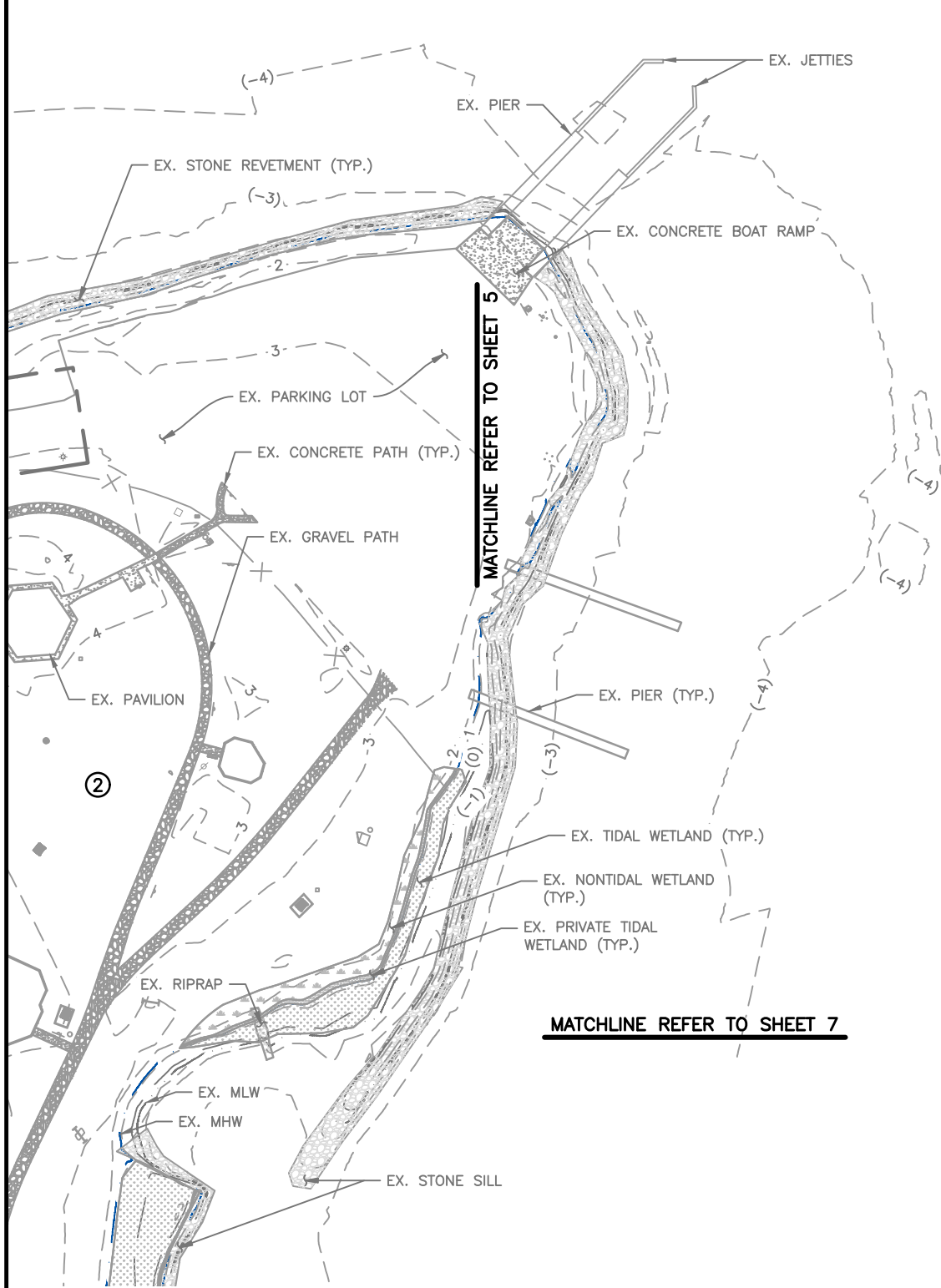
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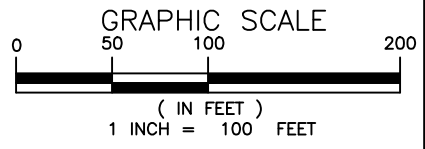
**MAKE CAMBRIDGE RESILIENT
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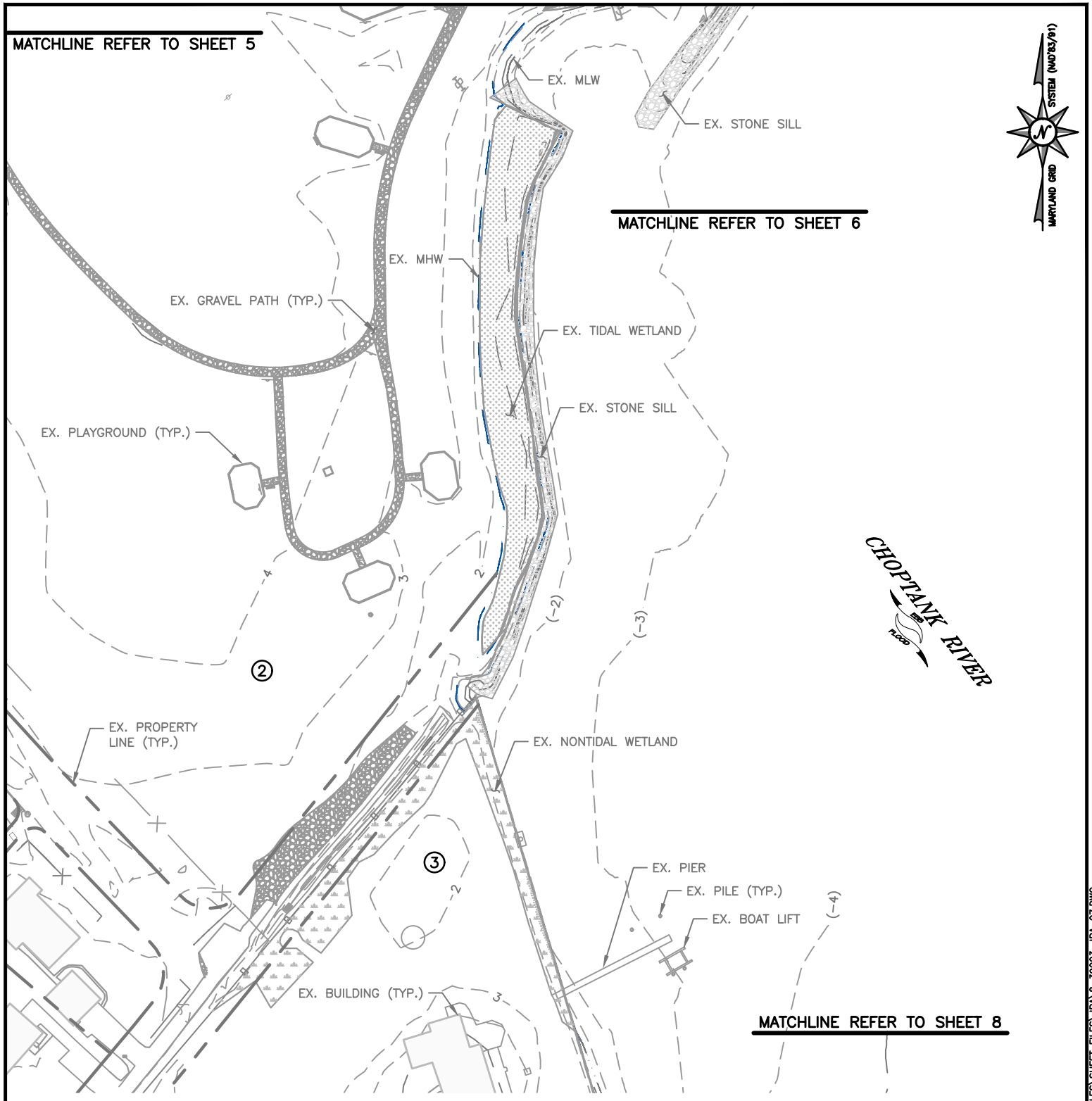
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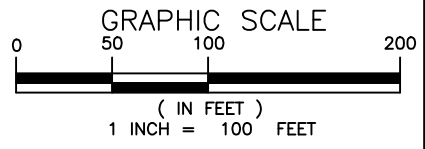


CHOPTANK RIVER

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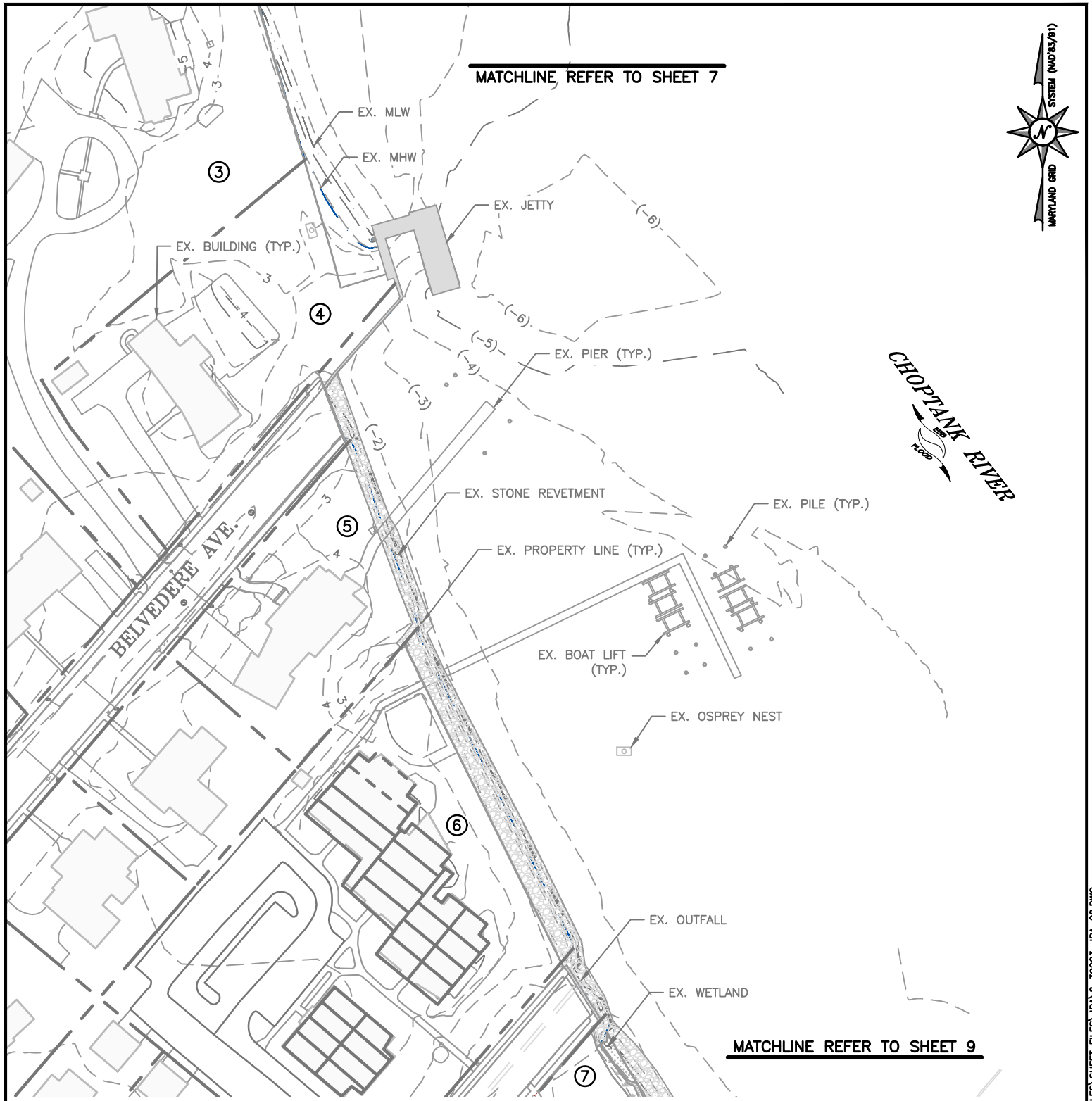
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CHOPTANK RIVER

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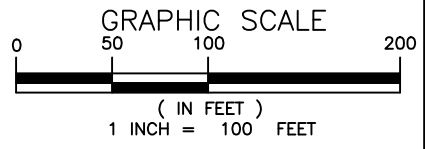
MAKE CAMBRIDGE RESILIENT FLOOD MITIGATION PROJECT AT THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

EXISTING CONDITIONS

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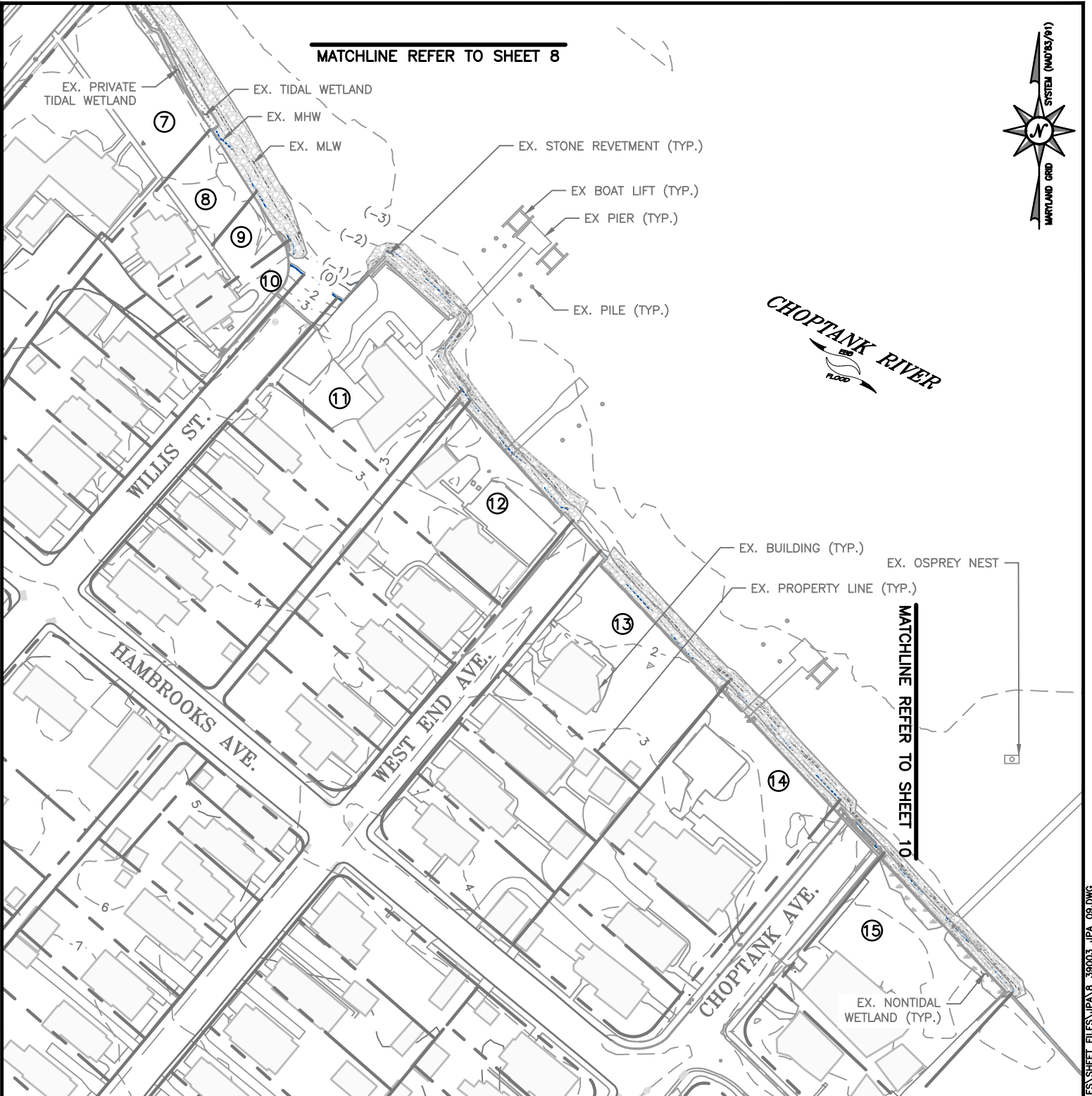


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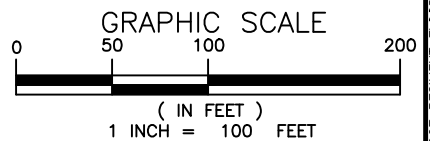
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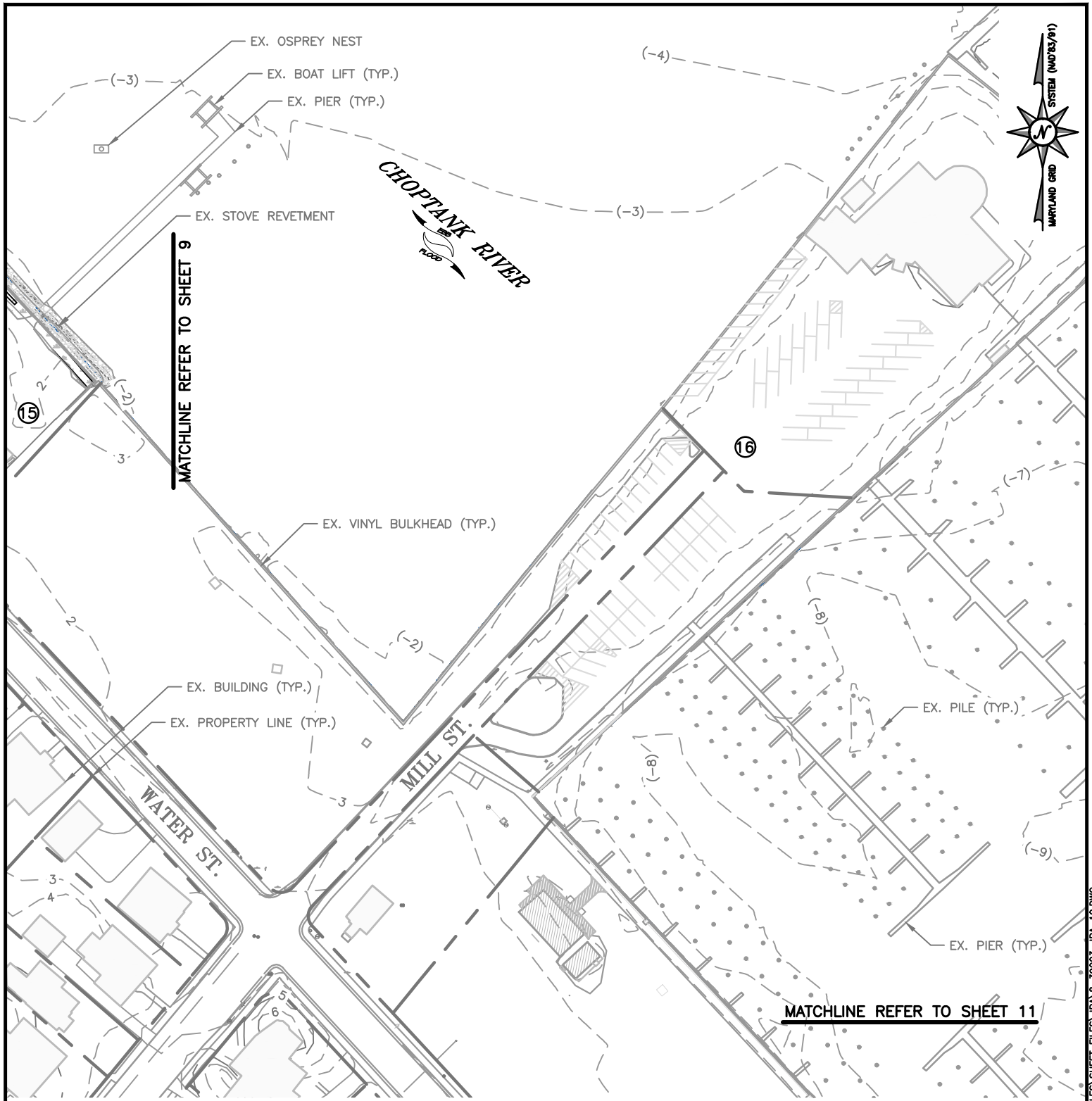
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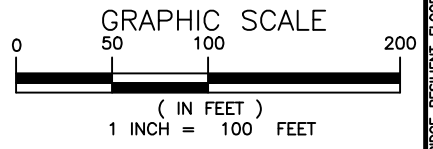
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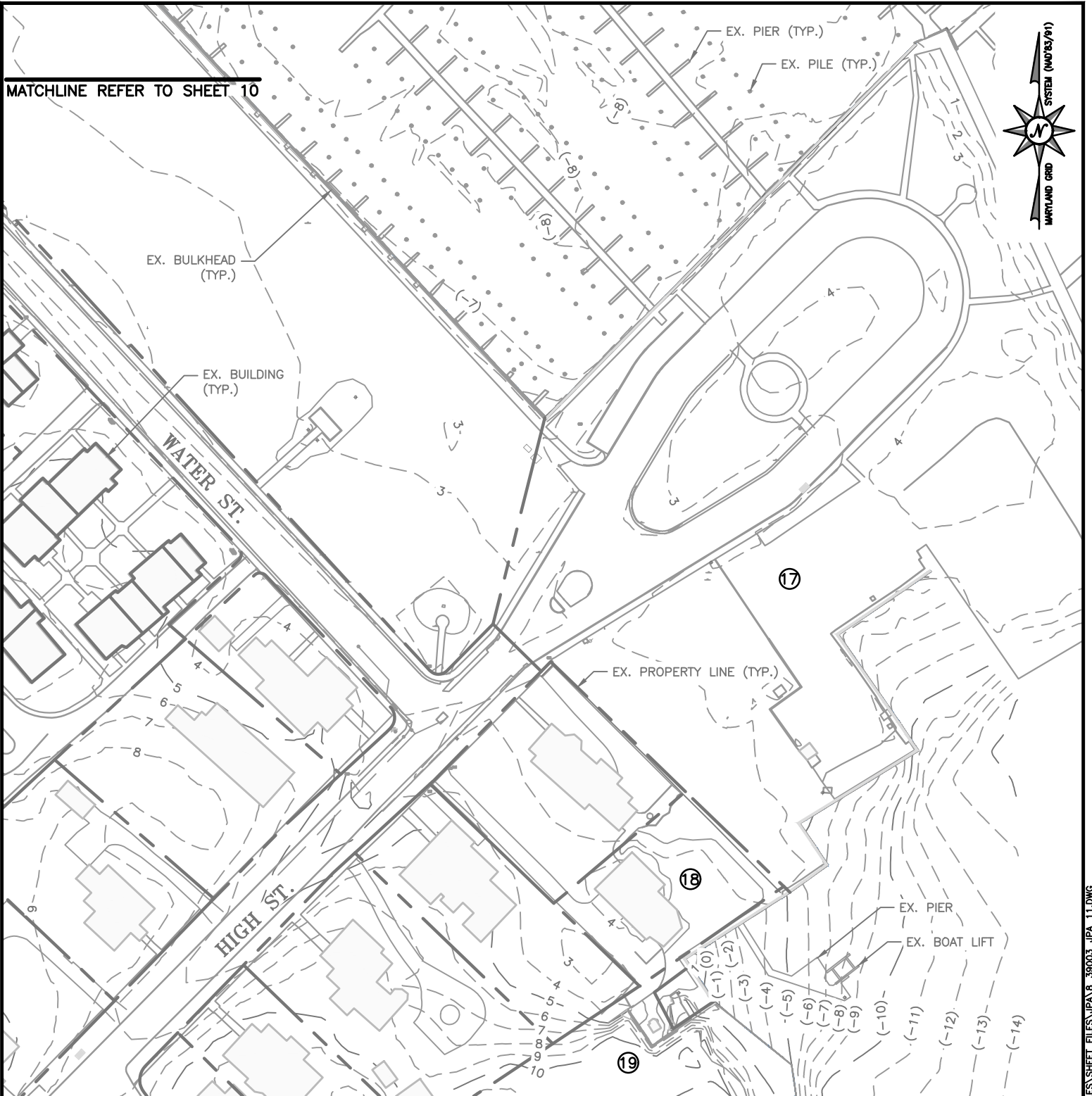


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MATCHLINE REFER TO SHEET 10



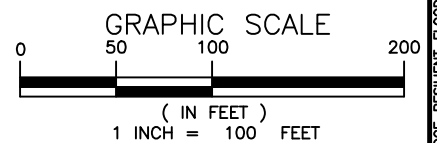
**MAKE CAMBRIDGE RESILIENT
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EXISTING CONDITIONS

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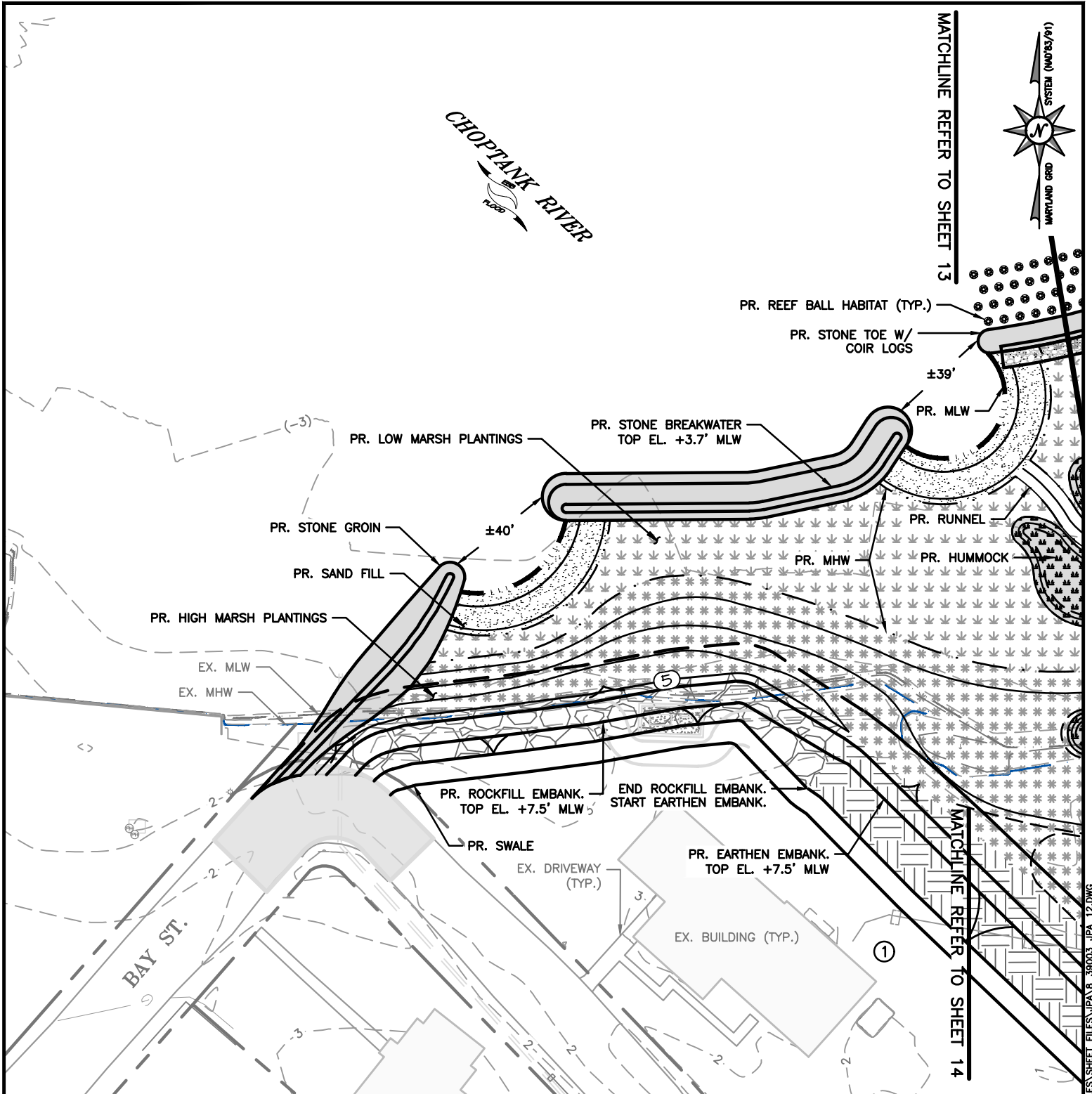


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CHOPTANK RIVER

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LEGEND

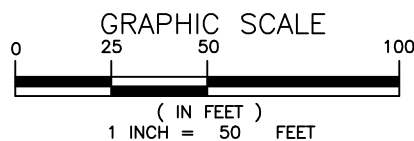
	PR. SAND FILL		PR. LOW MARSH PLANTINGS
	PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. ROCKFILL EMBANKMENT		PR. STONE STRUCTURE

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SITE PLANS

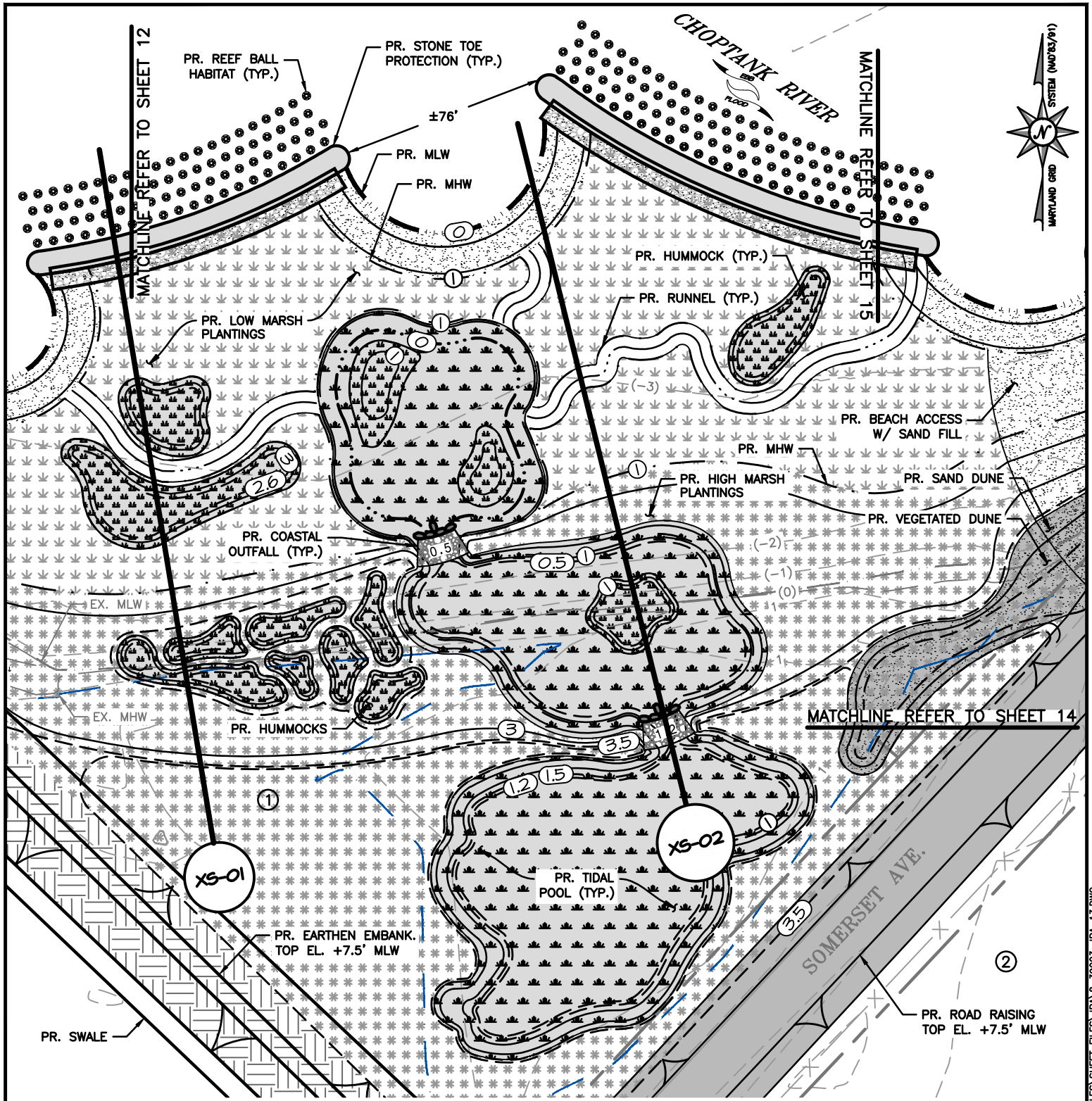
DATE: APRIL 2026 SHEET 12 OF 35



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AT
THE CITY OF CAMBRIDGE**

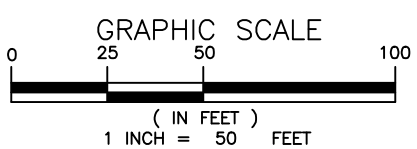
APPL. BY: THE CITY OF CAMBRIDGE

SITE PLANS

DATE: APRIL 2026 SHEET 13 OF 35

LEGEND

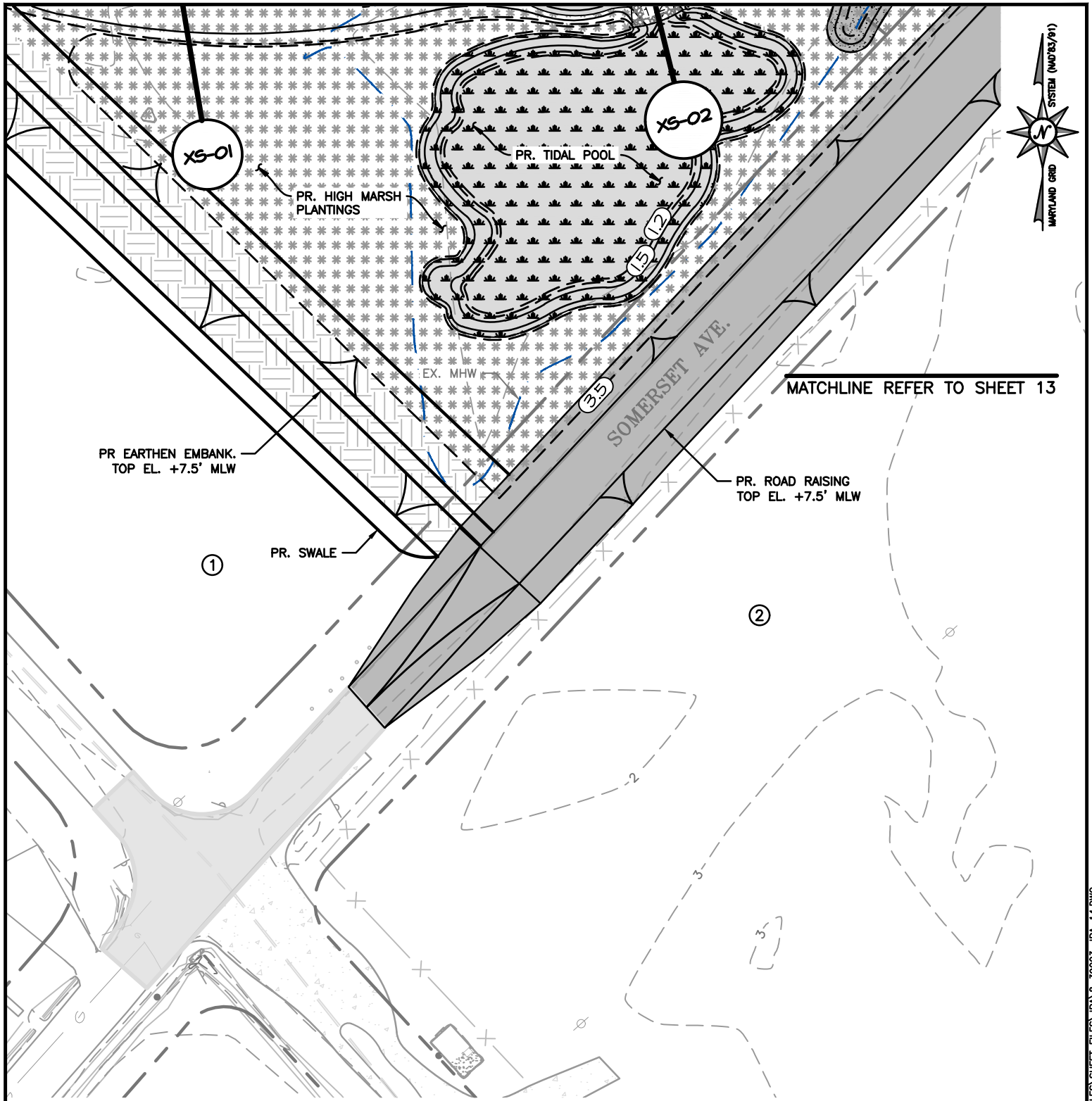
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	PR. COASTAL OUTFALL		PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. TIDAL POOL		PR. HUMMOCK		PR. ROAD RAISING



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MATCHLINE REFER TO SHEET 13

PR EARTHEN EMBANK.
TOP EL. +7.5' MLW

PR. SWALE

PR. ROAD RAISING
TOP EL. +7.5' MLW

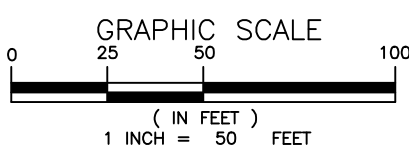
LEGEND	
	PR. SAND FILL
	PR. EARTHEN EMBANKMENT
	PR. TIDAL POOL
	PR. LOW MARSH PLANTINGS
	PR. HIGH MARSH PLANTINGS
	PR. ROAD RAISING

**MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

APPL. BY: THE CITY OF CAMBRIDGE

SITE PLANS

DATE: APRIL 2026 SHEET 14 OF 35



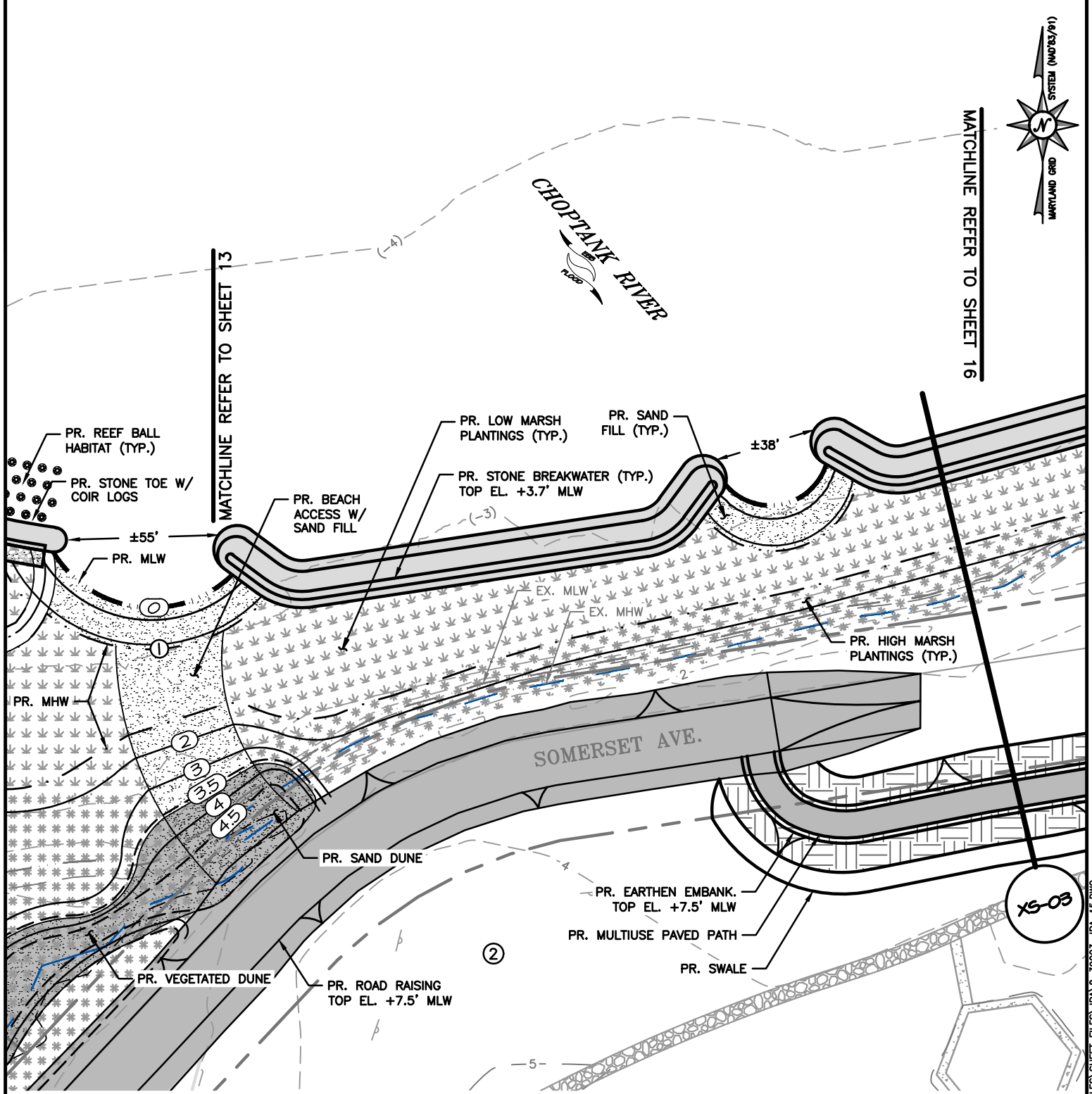
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MATCHLINE REFER TO SHEET 16

MATCHLINE REFER TO SHEET 13

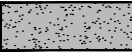









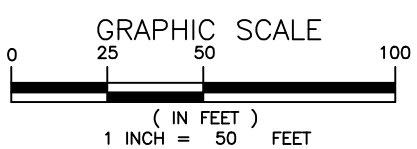
**MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

APPL. BY: THE CITY OF CAMBRIDGE

SITE PLANS

DATE: APRIL 2026 SHEET 15 OF 35

LEGEND			
	PR. DUNE		PR. SAND FILL
	PR. STONE STRUCTURE		PR. EARTHEN EMBANKMENT
			PR. ROCKFILL EMBANKMENT
			PR. LOW MARSH PLANTINGS
			PR. HIGH MARSH PLANTINGS
			PR. ROAD RAISING



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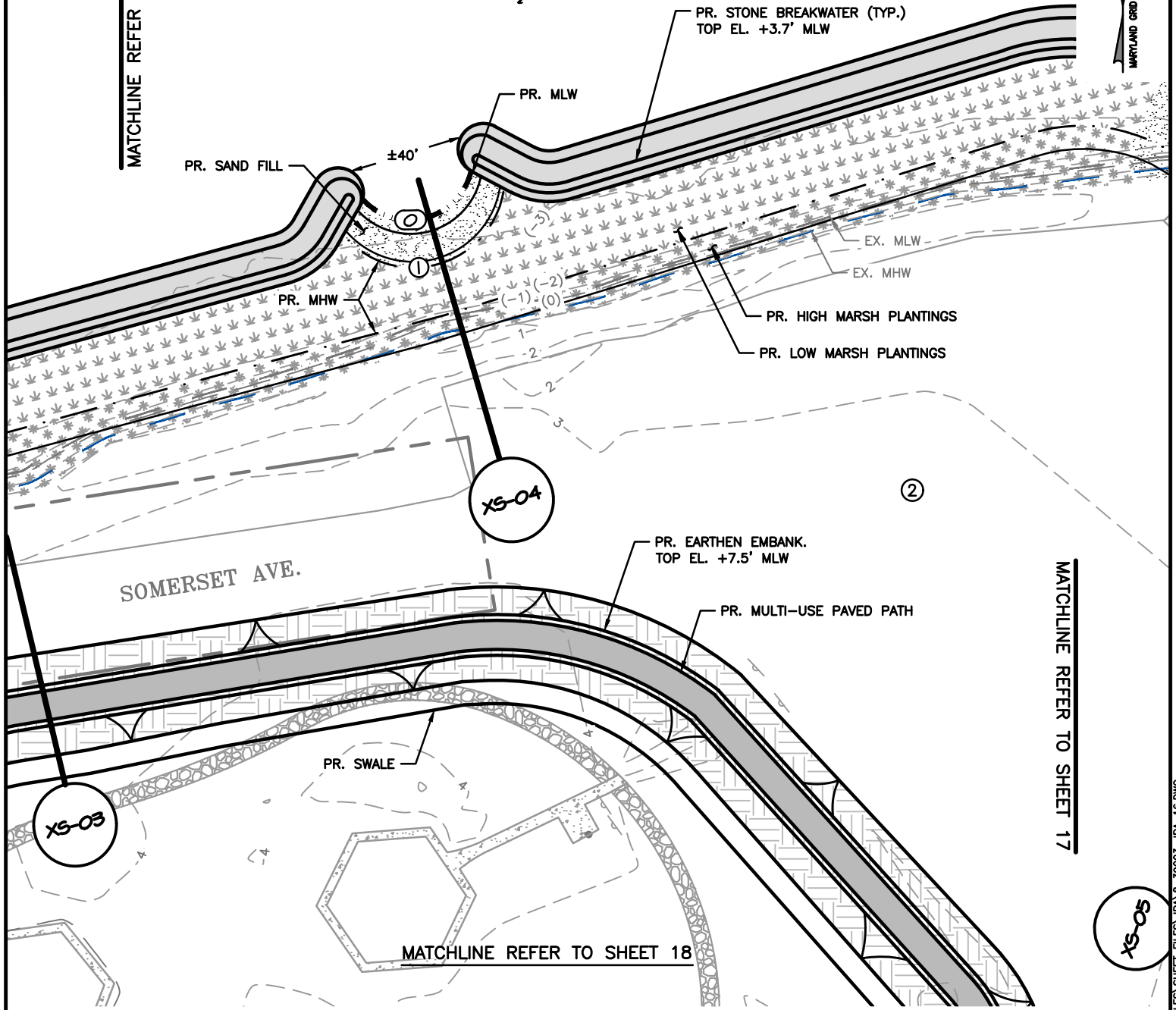
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MATCHLINE REFER TO SHEET 15

CHOPTANK RIVER



MATCHLINE REFER TO SHEET 17

LEGEND

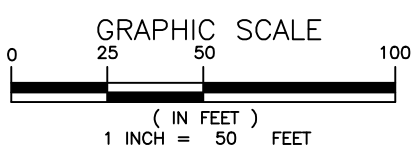
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	PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS		PR. ROAD RAISING
	PR. ROCKFILL EMBANKMENT				

MAKE CAMBRIDGE RESILIENT FLOOD MITIGATION PROJECT AT THE CITY OF CAMBRIDGE

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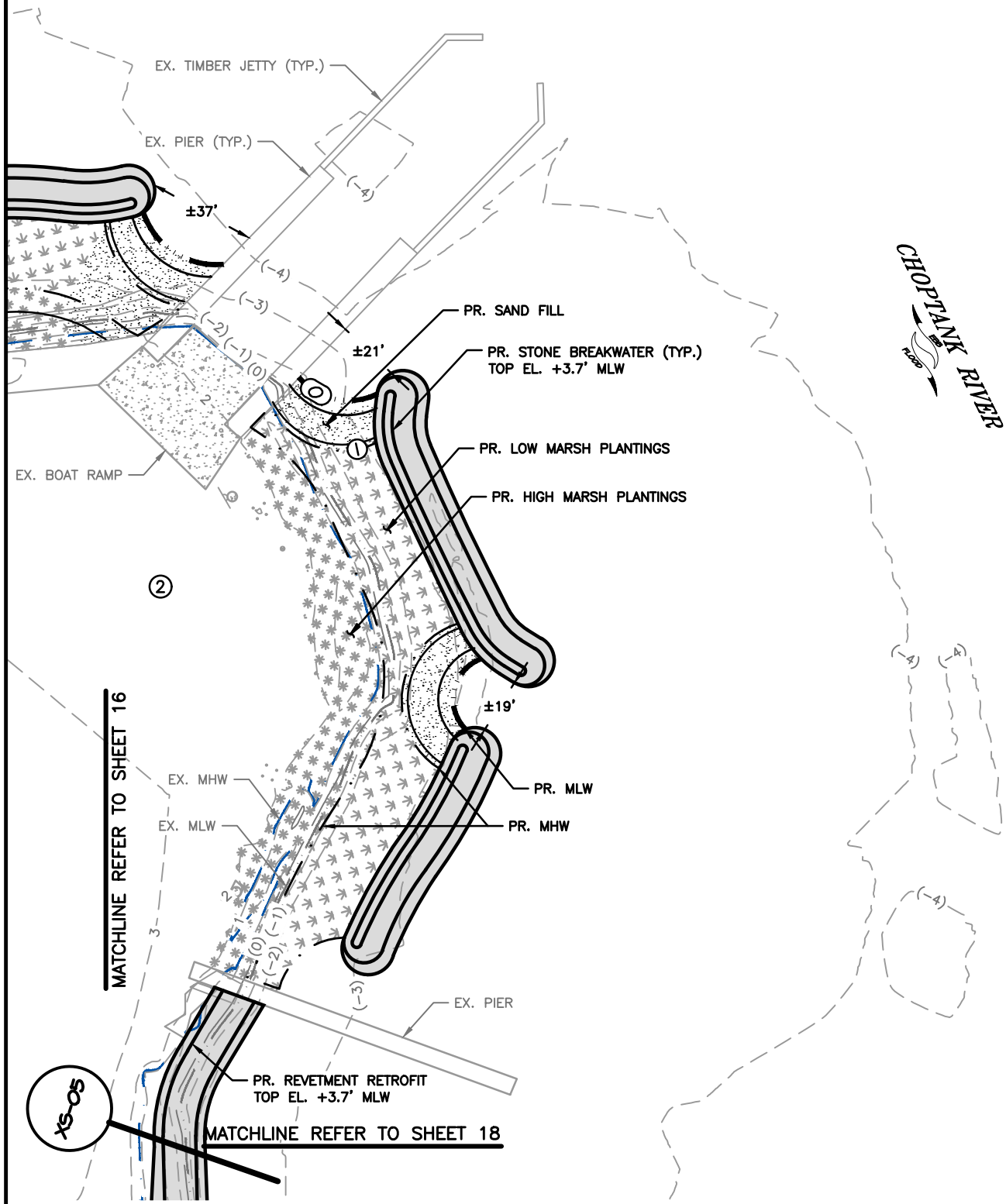
SITE PLANS

DATE: APRIL 2026 SHEET 16 OF 35








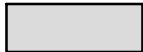
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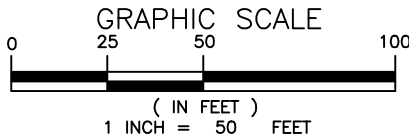
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CHOPTANK RIVER

LEGEND

- | | | | |
|---|-------------------------|---|--------------------------|
|  | PR. SAND FILL |  | PR. LOW MARSH PLANTINGS |
|  | PR. EARTHEN EMBANKMENT |  | PR. HIGH MARSH PLANTINGS |
|  | PR. ROCKFILL EMBANKMENT |  | PR. STONE STRUCTURE |



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SITE PLANS

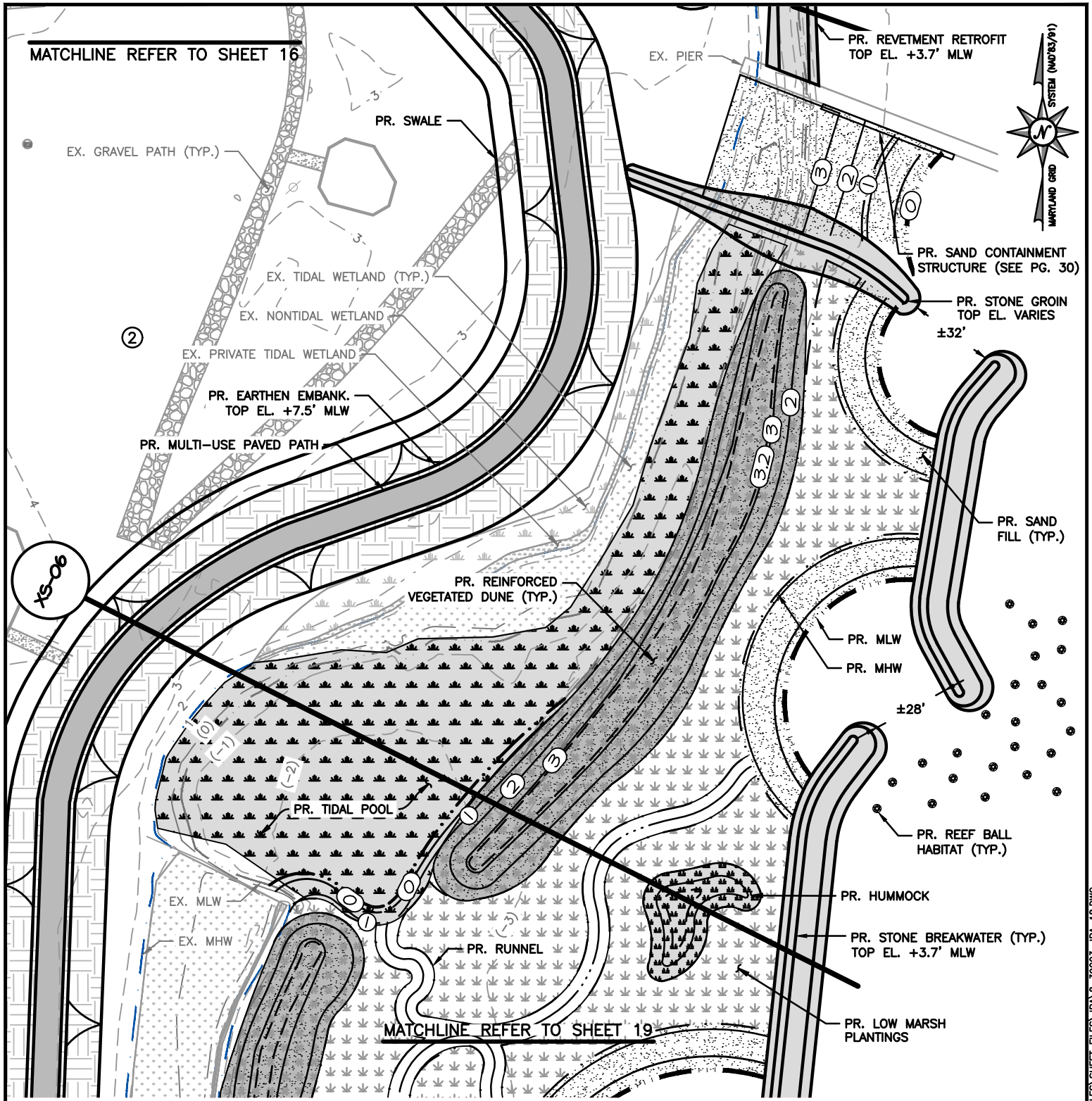
DATE: APRIL 2026 SHEET 17 OF 35



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MATCHLINE REFER TO SHEET 16



XS-06

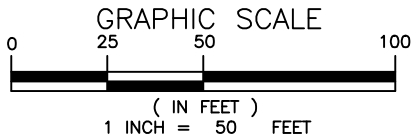
LEGEND

**MAKE CAMBRIDGE RESILIENT
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THE CITY OF CAMBRIDGE**

	PR. VEGETATED DUNE		PR. SAND FILL		PR. LOW MARSH PLANTINGS
	PR. TIDAL POOL		PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. STONE STRUCTURE		PR. HUMMOCK		PR. PAVED PATH

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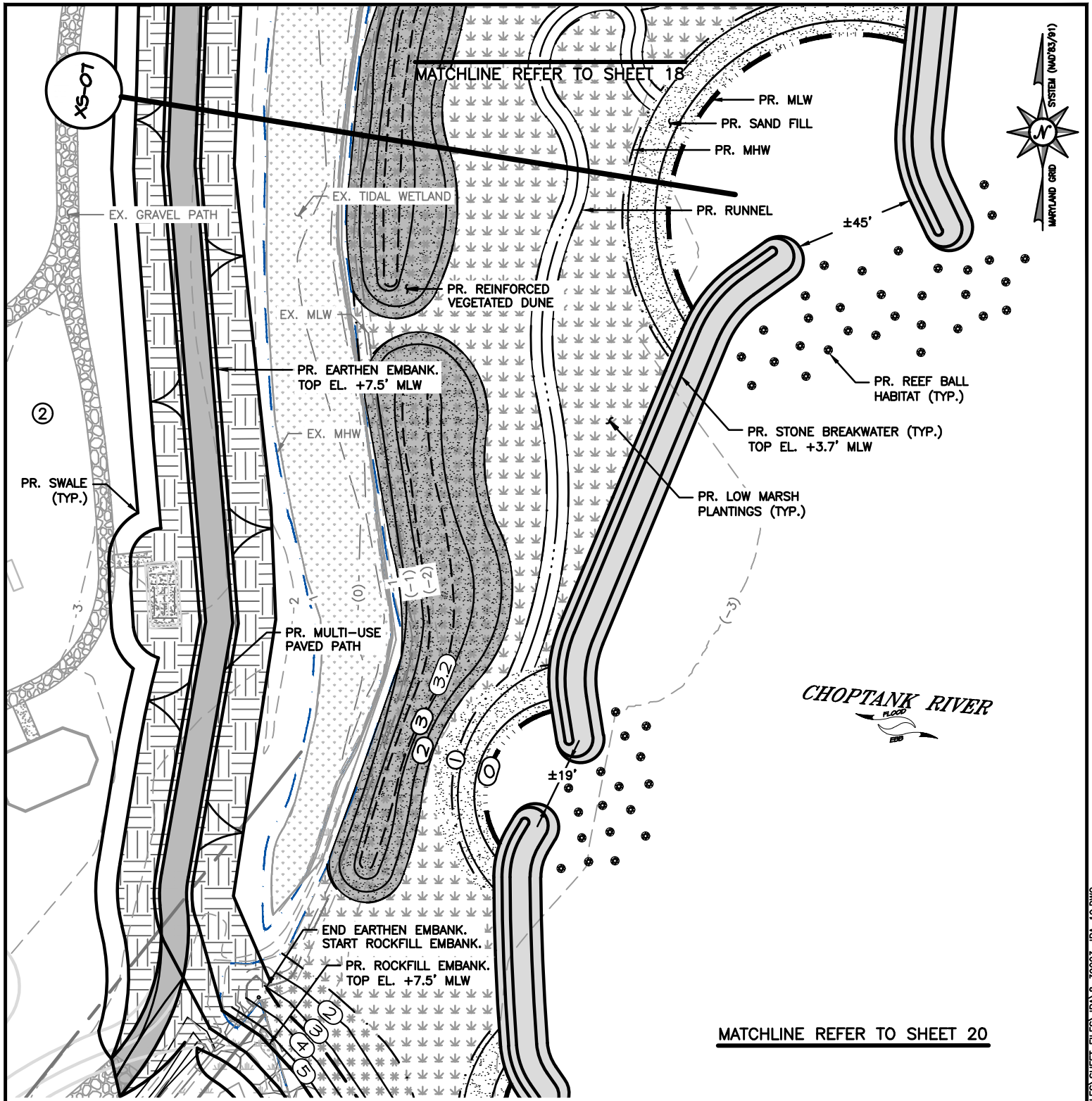
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DATE: APRIL 2026 SHEET 18 OF 35

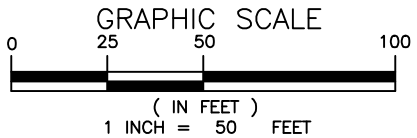
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LEGEND

- | | | | |
|--|------------------------|--|--------------------------|
| | PR. SAND FILL | | PR. LOW MARSH PLANTINGS |
| | PR. EARTHEN EMBANKMENT | | PR. HIGH MARSH PLANTINGS |
| | PR. VEGETATED DUNE | | PR. STONE STRUCTURE |



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DATE: APRIL 2026 SHEET 19 OF 35

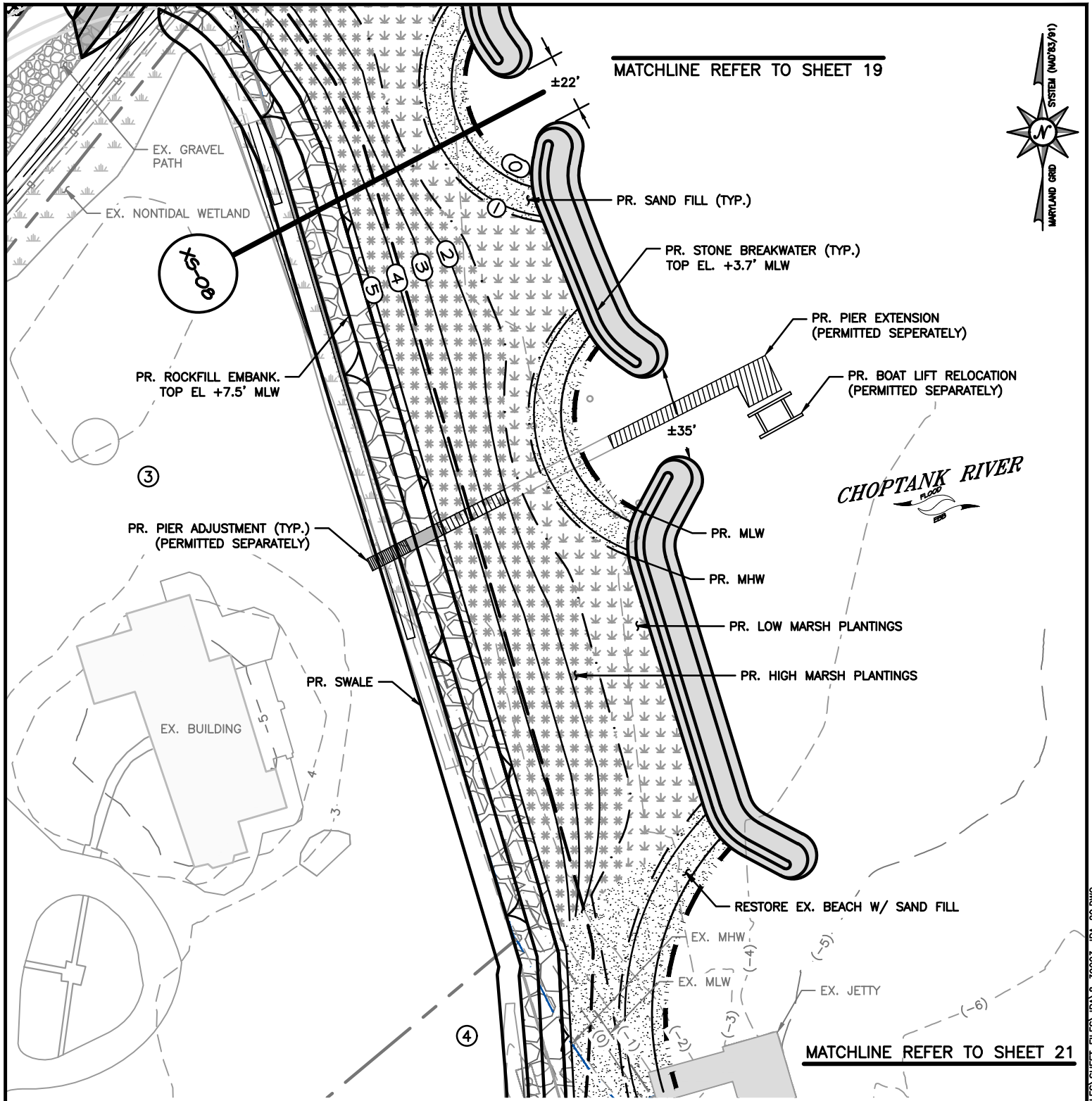
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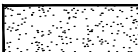





MATCHLINE REFER TO SHEET 19

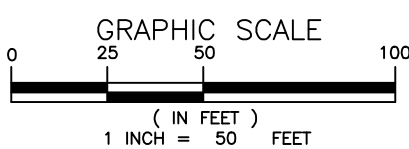


CHOPTANK RIVER
FLOOD

MATCHLINE REFER TO SHEET 21

LEGEND

- | | | | |
|---|-------------------------|---|--------------------------|
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|  | PR. EARTHEN EMBANKMENT |  | PR. HIGH MARSH PLANTINGS |
|  | PR. ROCKFILL EMBANKMENT |  | PR. STONE STRUCTURE |



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FLOOD MITIGATION PROJECT
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THE CITY OF CAMBRIDGE**

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SITE PLANS

DATE: APRIL 2026 SHEET 20 OF 35

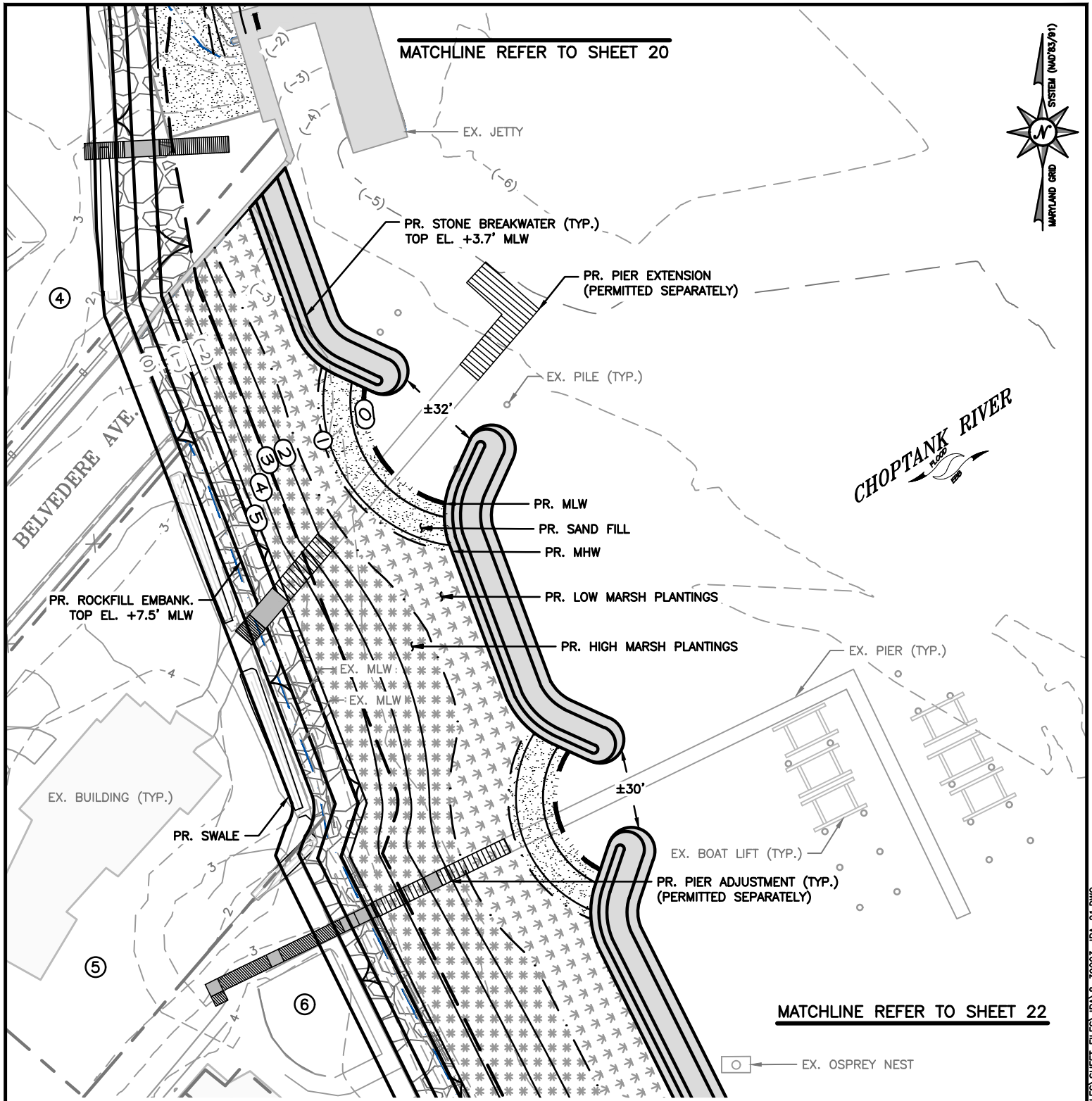


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MATCHLINE REFER TO SHEET 20



MATCHLINE REFER TO SHEET 22

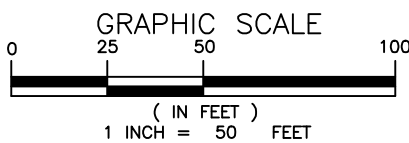
MAKE CAMBRIDGE RESILIENT FLOOD MITIGATION PROJECT AT THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

SITE PLANS

DATE: APRIL 2026 SHEET 21 OF 35

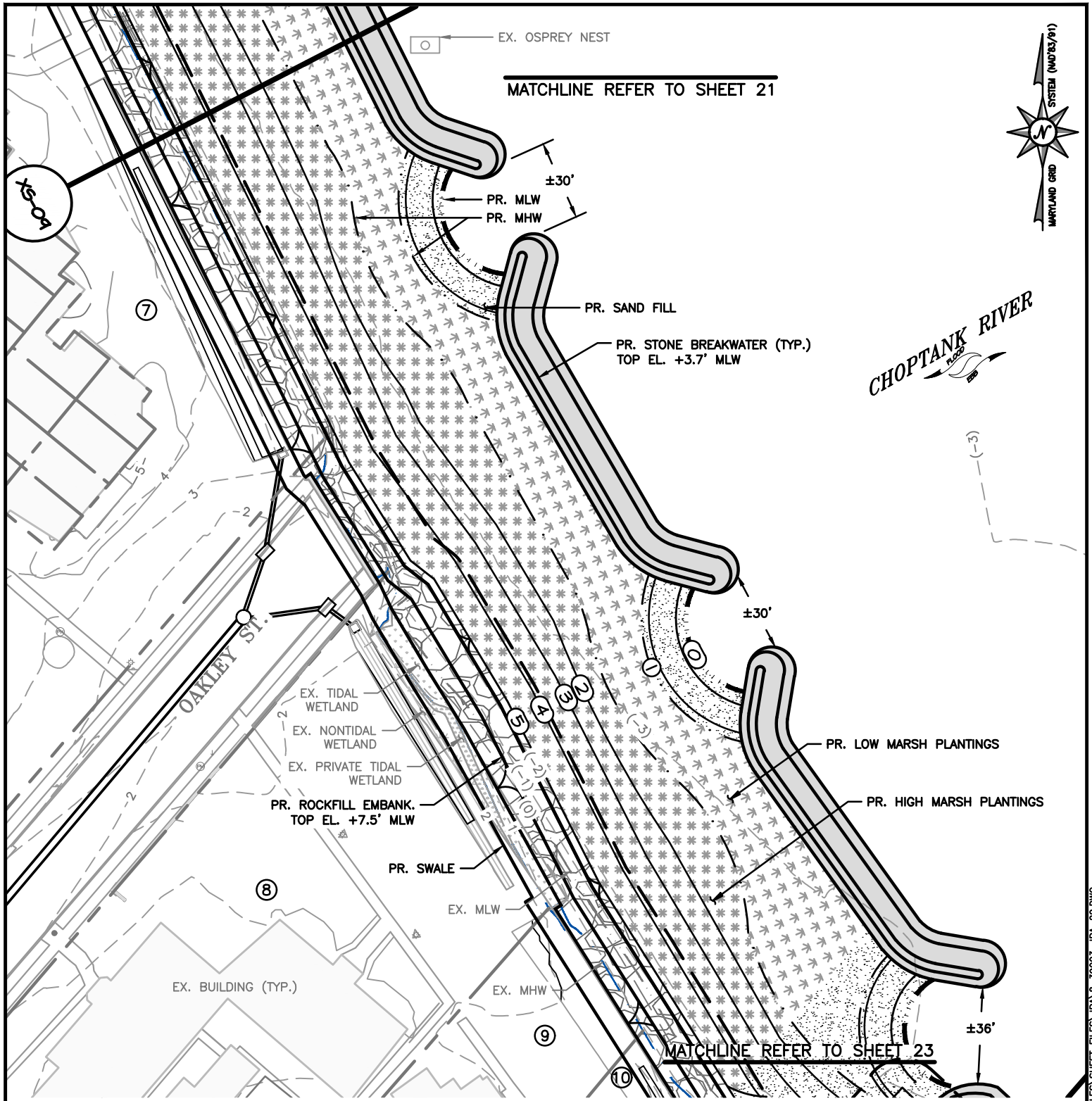
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	PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. ROCKFILL EMBANKMENT		PR. STONE STRUCTURE



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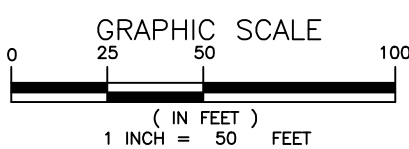
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CHOPTANK RIVER

LEGEND

- | | | | |
|--|-------------------------|--|--------------------------|
| | PR. SAND FILL | | PR. LOW MARSH PLANTINGS |
| | PR. EARTHEN EMBANKMENT | | PR. HIGH MARSH PLANTINGS |
| | PR. ROCKFILL EMBANKMENT | | PR. STONE STRUCTURE |



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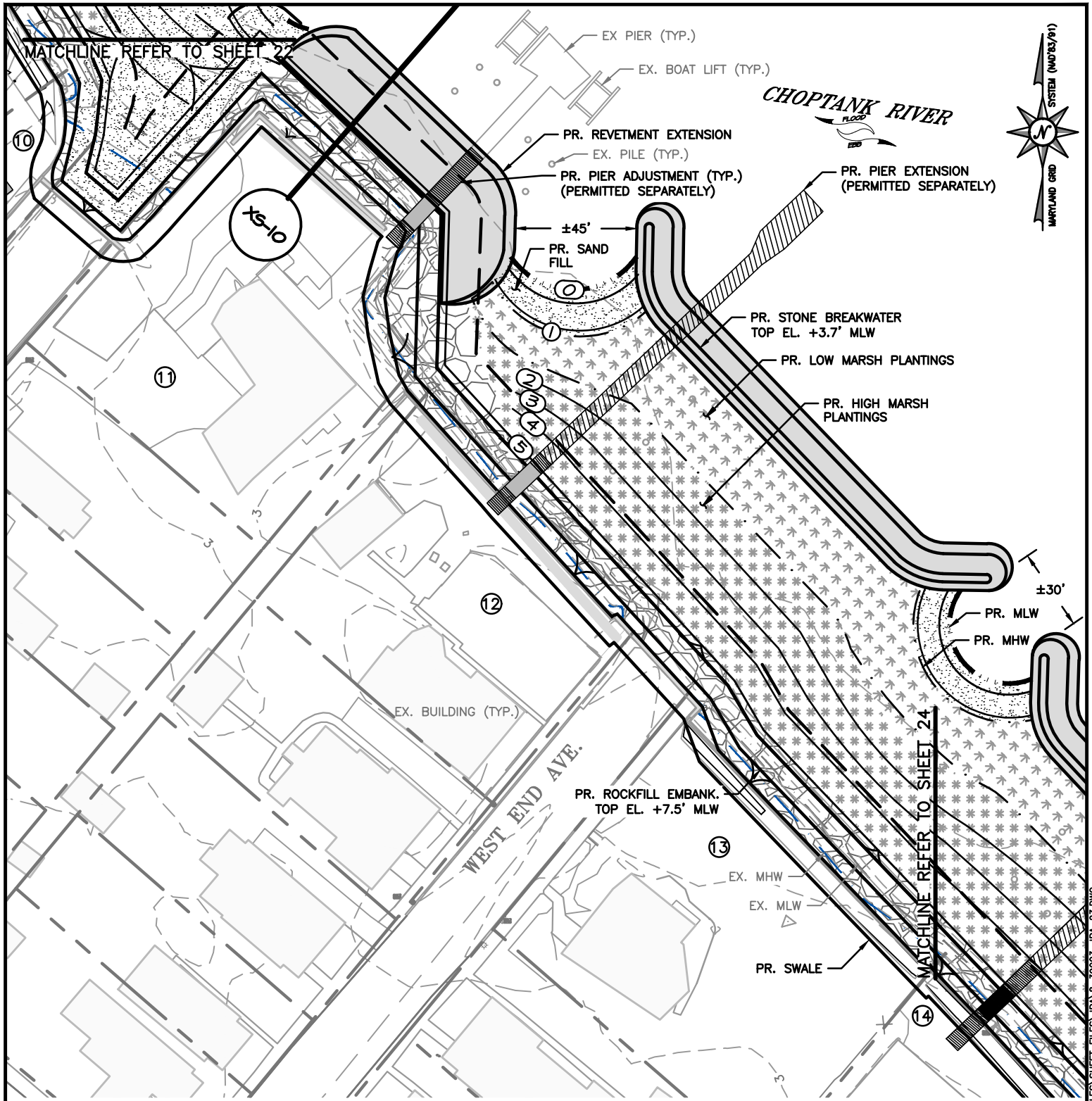
SITE PLANS

DATE: MAY 2026 SHEET 22 OF 35

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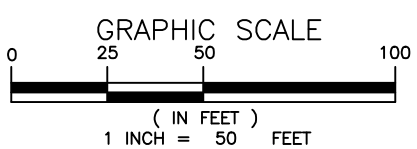
**MAKE CAMBRIDGE RESILIENT
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AT
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SITE PLANS

DATE: APRIL 2026 SHEET 23 OF 35

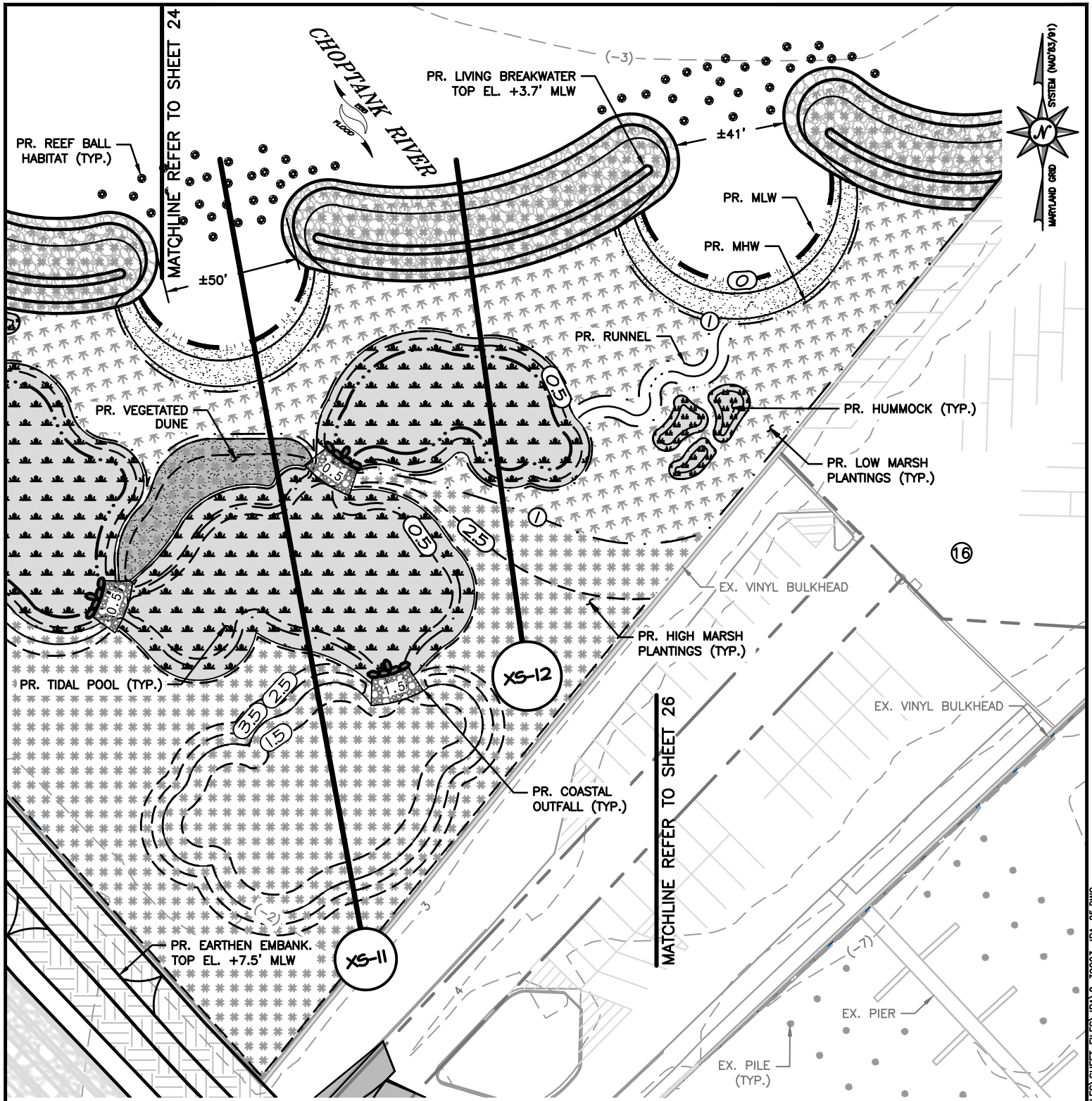
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	PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. ROCKFILL EMBANKMENT		PR. STONE STRUCTURE



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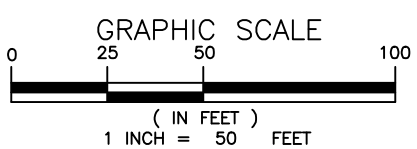
**MAKE CAMBRIDGE RESILIENT
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SITE PLANS

DATE: APRIL 2026 SHEET 25 OF 35

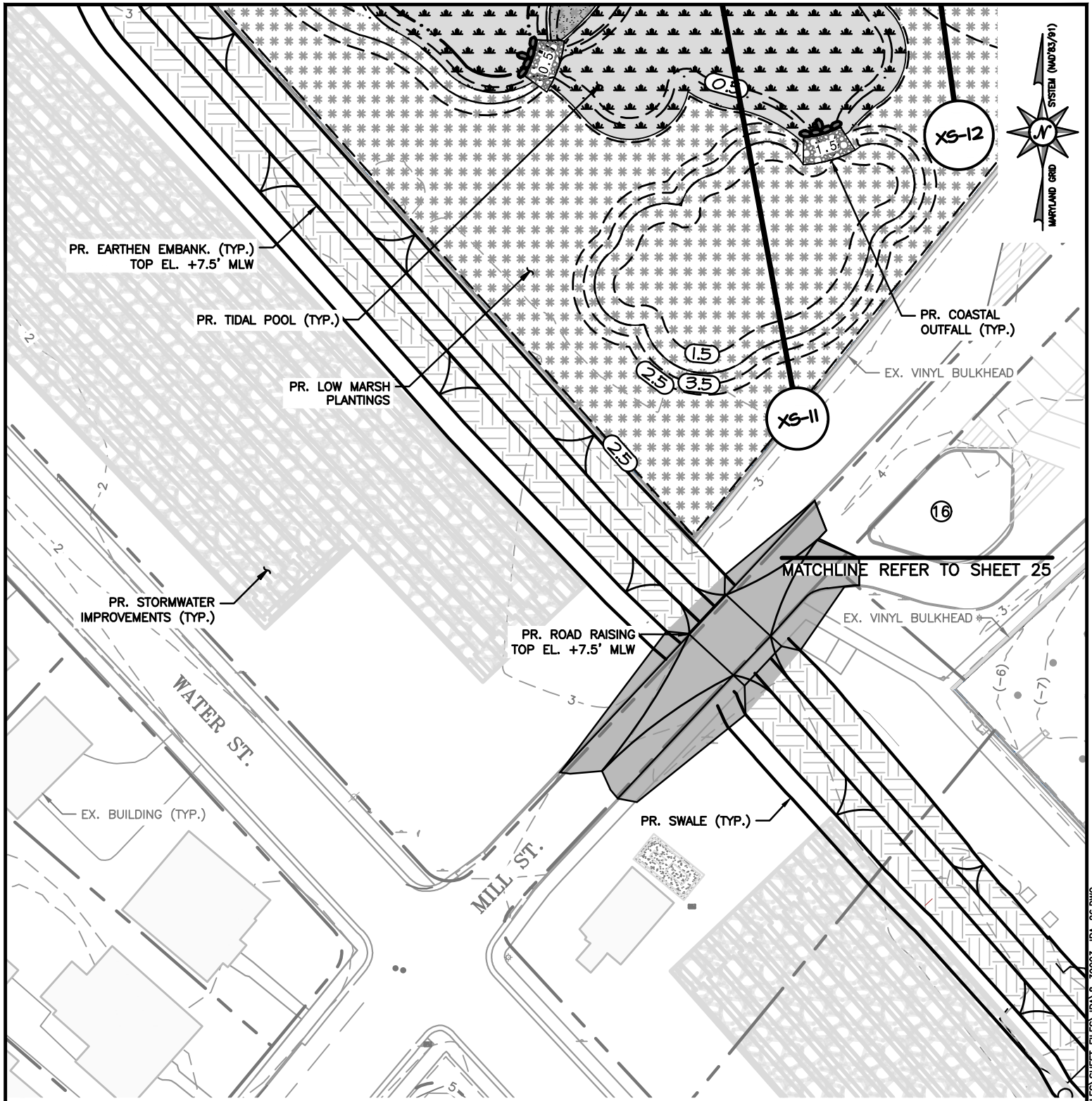
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	PR. COASTAL OUTFALL		PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. TIDAL POOL		PR. HUMMOCK		PR. STONE STRUCTURE

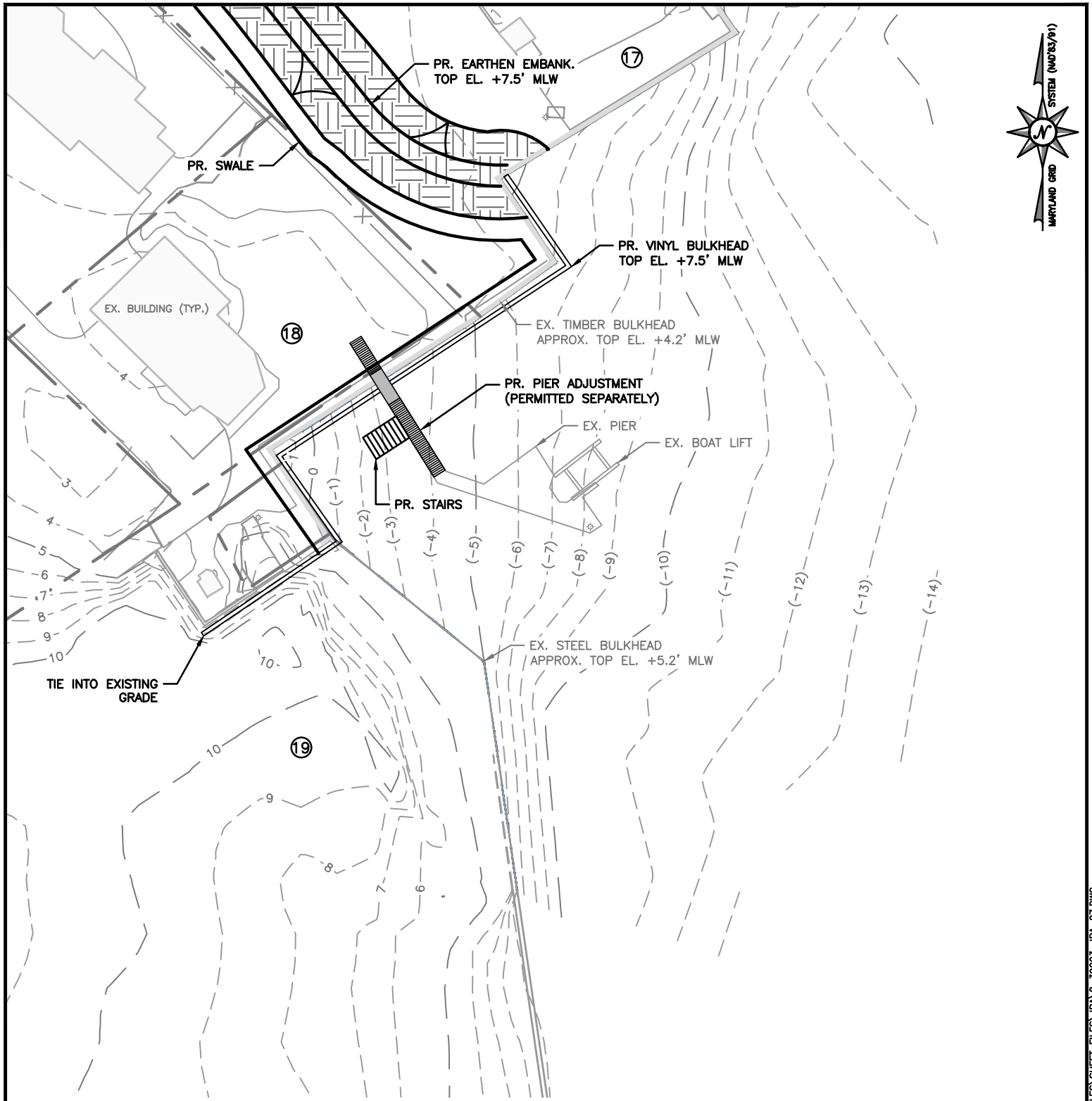


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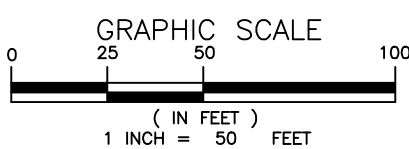
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FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

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DATE: APRIL 2026 SHEET 27 OF 35

	PR. SAND FILL		PR. LOW MARSH PLANTINGS
	PR. EARTHEN EMBANKMENT		PR. HIGH MARSH PLANTINGS
	PR. ROCKFILL EMBANKMENT		PR. STONE STRUCTURE



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PROPERTY OWNERS	
LOCATION	PARCEL INFO
1	THE COMMISSIONERS OF CAMBRIDGE 2 QUEEN ANNE AVE DEED #: /01912/ 00163 PLAT: N/A 2.36 AC
2	TAX ID #: 07-000-17518300 COMMISSIONERS OF CAMBRIDGE GREAT MARSH DEED #: /00098/ 00317 PLAT: N/A 5.67 AC
3	TANGIRES, JHAN SHILLING 1 BELVEDERE AVE DEED #: 1794/58 2.75 AC
4	SHILLING JON SCOTT 1A BELVEDERE AVE CAMBRIDGE MD DEED #, 1774/482 T.M. 300; P. 783 0.818 AC
5	WHITE LAWRENCE A WHITE MARIT E 2 BELVEDERE AVENUE CAMBRIDGE MD DEED #, 1713/183 T.M. 300; P. 781 0.4976 AC
6	OAKLEY BEACH LLC 1 OAKLEY ST CAMBRIDGE MD DEED #, 499/551 T.M. 300; P. 758 1.659 AC
7	2 OAKLEY STREET INVESTMENTS LLC 2 OAKLEY ST CAMBRIDGE, MD DEED #, 1214/311 T.M. 300; P. 757 0.8222 AC
8	HURLEY ANNABELLE M JOHN BECHTOLD JR L/E MARK HURLEY 904 OAKLEY TER CAMBRIDGE MD DEED #, 228/873 T.M. 300; P. 748 0.175 AC

PROPERTY OWNERS	
LOCATION	PARCEL INFO
9	LOSTY MARY MARGARET 902 OAKLEY TER CAMBRIDGE MD DEED #, 1622/252 T.M. 300; P. 747 0.0852 AC
10	HICKS KAREN P 900 OAKLEY TER CAMBRIDGE MD DEED #, 1307/139 T.M. 300; P. 747 0.0962 AC
11	MCWILLIAMS CHET H & LEANN 2 WILLIS ST CAMBRIDGE MD DEED #, 689/214 T.M. 300; P. 728 0.26 AC
12	KRANZ THOMAS R KRANZ LINDA A 1 WEST END AVE CAMBRIDGE MD DEED #, 1301/421 T.M. 300; P. 692 0.2428 AC
13	DAVIS BETSY J L/E THEN TO COALLA DEBORAH A 4 WEST END AVE CAMBRIDGE MD DEED #, 743/469 T.M. 301; P. 189 0.3 AC
14	DOLGE MICHELLE K 3 CHOPTANK AVE CAMBRIDGE MD DEED #, 1584/447 T.M. 301; P. 188 0.387 AC
15	TAX ID. 07-173458 BRADY, JAMES GILBERTO, BRADY JUDITH L. 2 CHOPTANK AVE. MAP 301 PARCEL 162 DEED: 1307/4791 PLAT REF: 52/264 16,170 SF
16	CAMBRIDGE YACHT CLUB INC 1 YACHT CLUB DR CAMBRIDGE MD DEED #, 177 T.M. 301; P. 116 1.28 AC

PROPERTY OWNERS	
LOCATION	PARCEL INFO
17	COMMISSIONERS OF CAMBRIDGE 410 ACADEMY ST CAMBRIDGE MD DEED #, 30/679 T.M. 301; P. 112 7.04 AC
18	TOMEY DAVID A AND MARTHA 100 HIGH ST CAMBRIDGE MD DEED #, 212/232 T.M. 301; P. 110 0.166 AC
19	CAMBRIDGE POINT LLC COMMERCE ST CAMBRIDGE, MD DEED #, 477/327 T.M. 301; P. 57 1.75 AC

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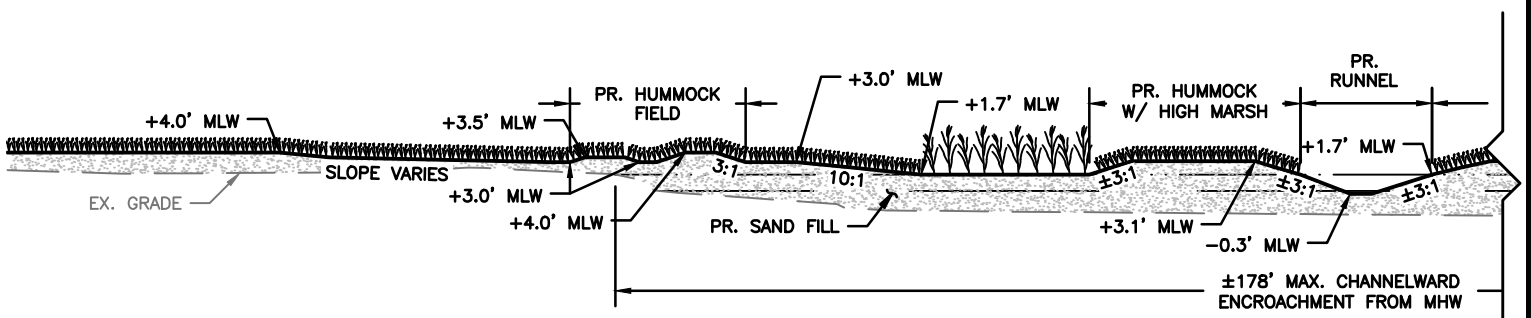
PARCEL TABLE

DATE: APRIL 2026 SHEET 28 OF 35



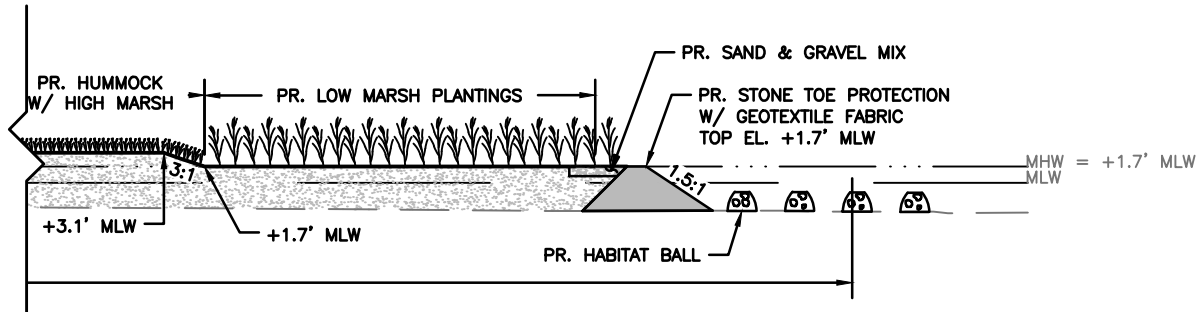
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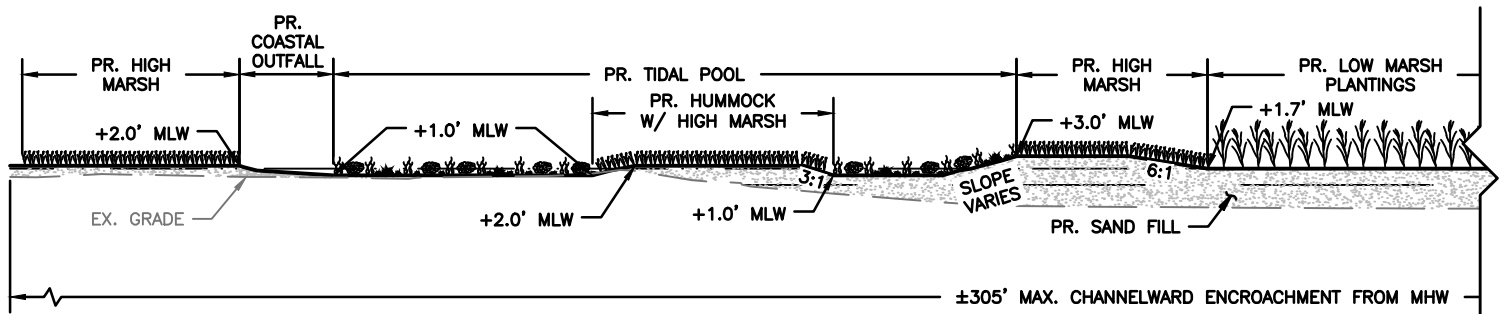
SECTION XS-01

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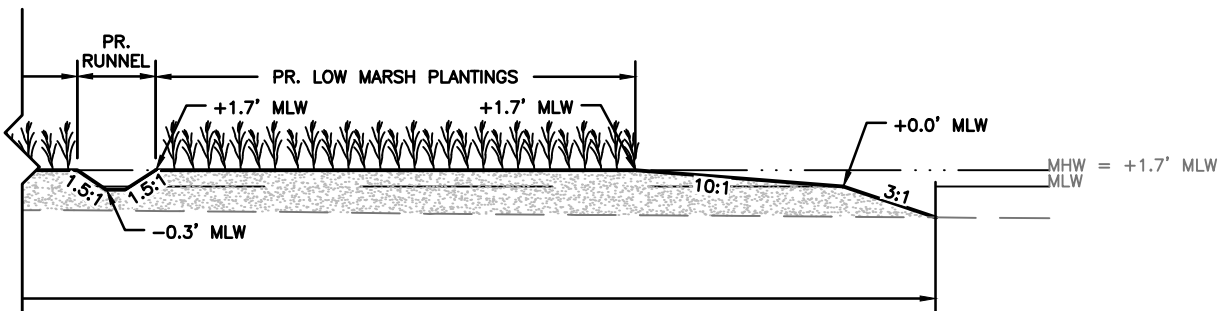
SECTION XS-01 CONTINUED

SCALE: 1"=20'



SECTION XS-02

SCALE: 1"=20'



SECTION XS-02 CONTINUED

SCALE: 1"=20'

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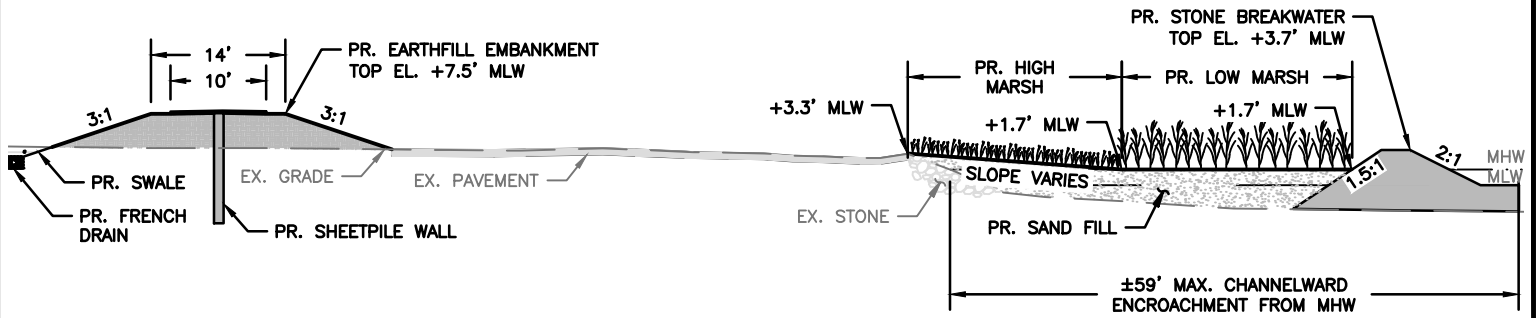
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CROSS SECTIONS & TYPICALS

DATE: APRIL 2026 SHEET 29 OF 35

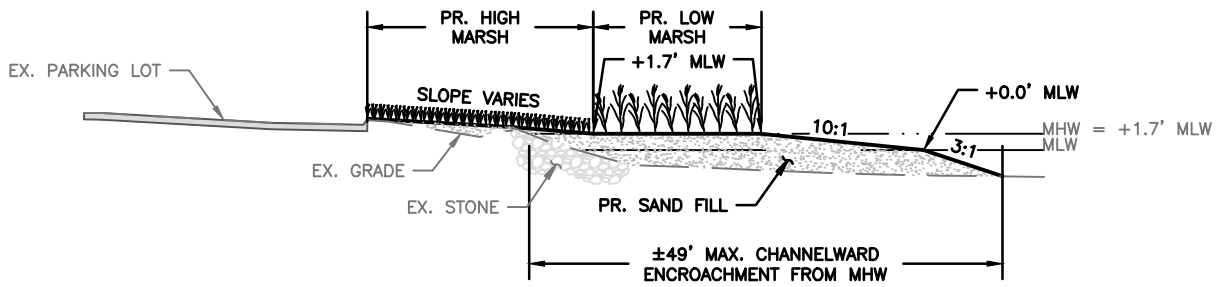
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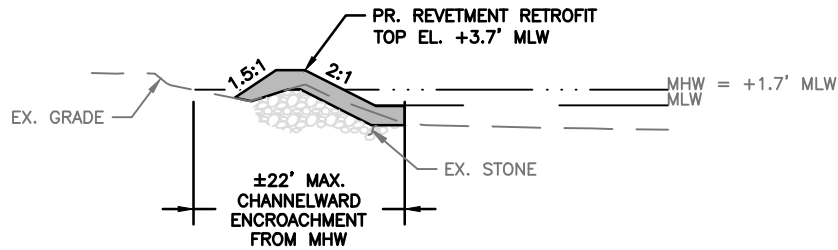
SECTION XS-03

SCALE: 1"=20'



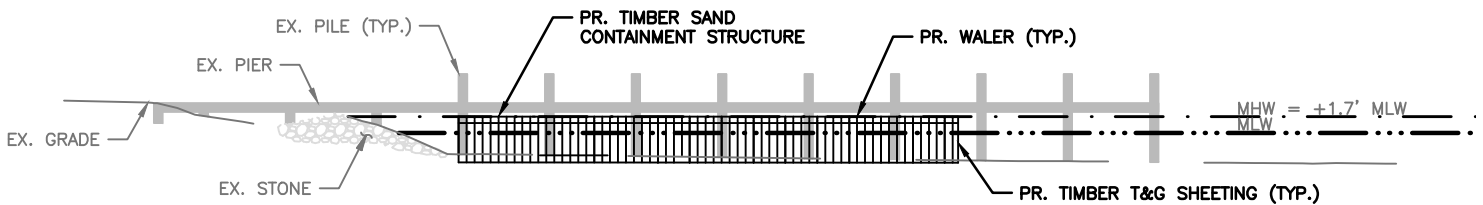
SECTION XS-04

SCALE: 1"=20'



SECTION XS-05

SCALE: 1"=20'



PROPOSED SAND CONTAINMENT STRUCTURE

SCALE: 1"=20'

MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

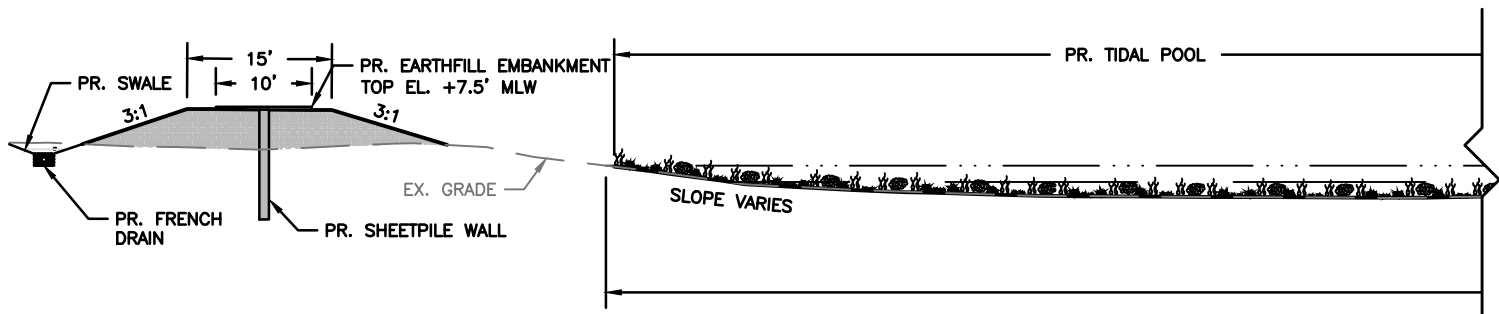
CROSS SECTIONS & TYPICALS

DATE: APRIL 2026 SHEET 30 OF 35

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

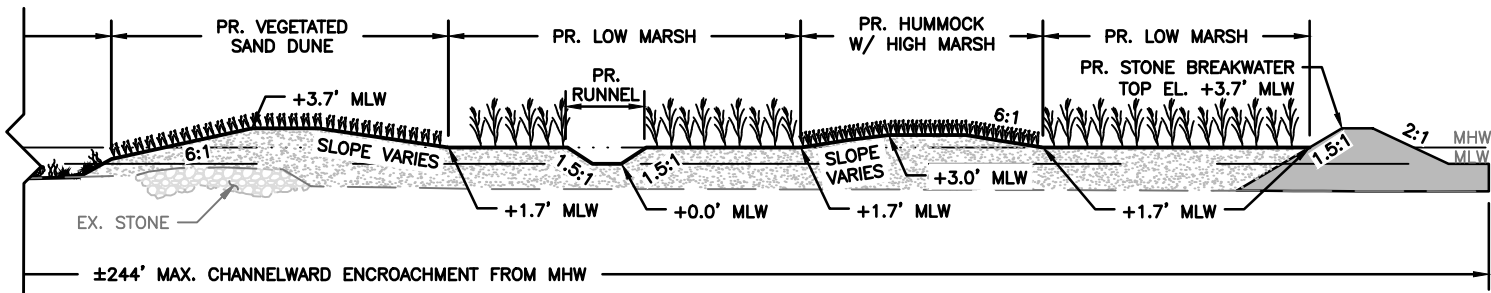
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
www.baylandinc.com

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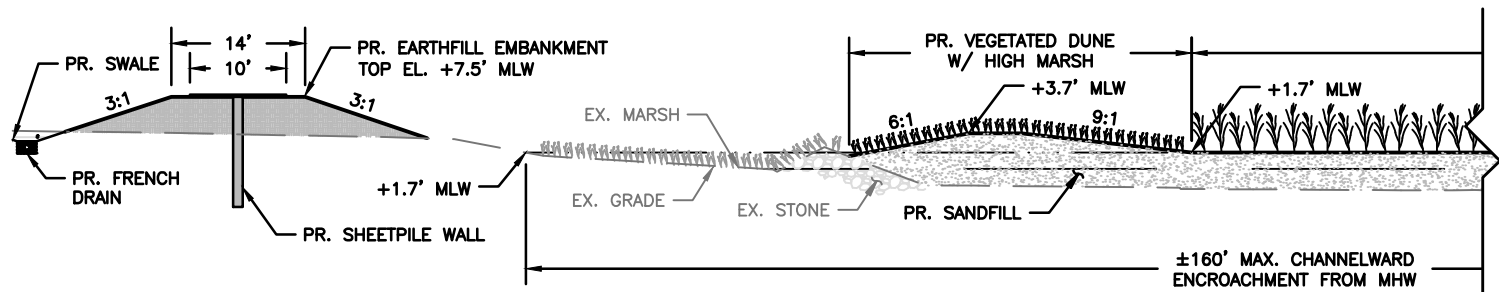
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SCALE: 1"=20'



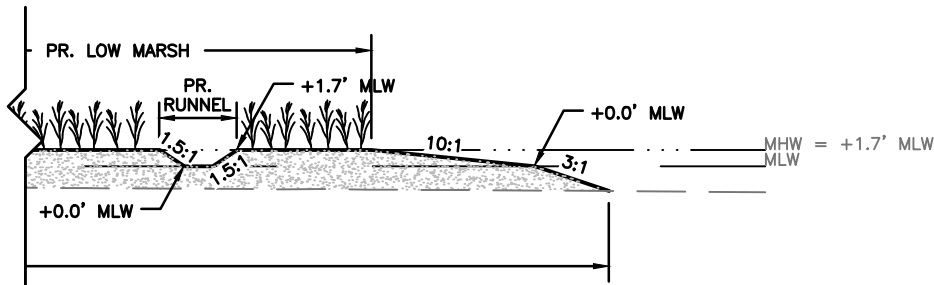
SECTION XS-06 CONTINUED

SCALE: 1"=20'



SECTION XS-07

SCALE: 1"=20'



SECTION XS-07 CONTINUED

SCALE: 1"=20'

**MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

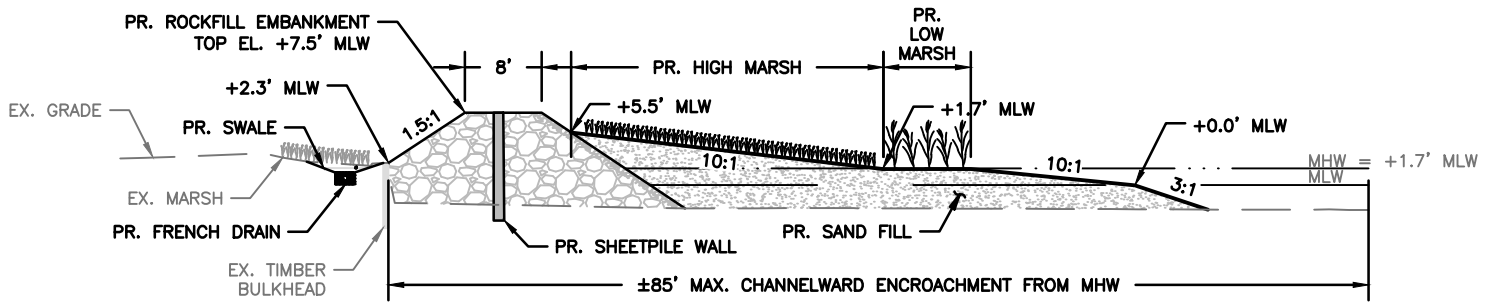
APPL. BY: THE CITY OF CAMBRIDGE

CROSS SECTIONS & TYPICALS

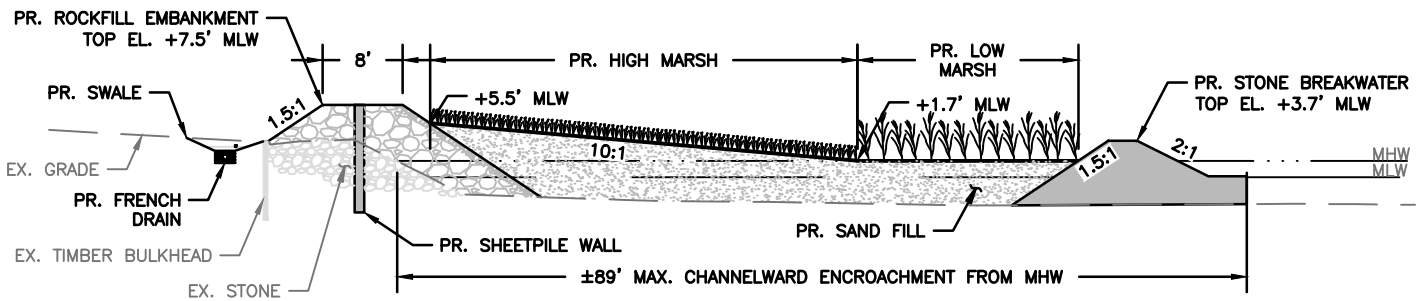
DATE: APRIL 2026 SHEET 31 OF 35

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

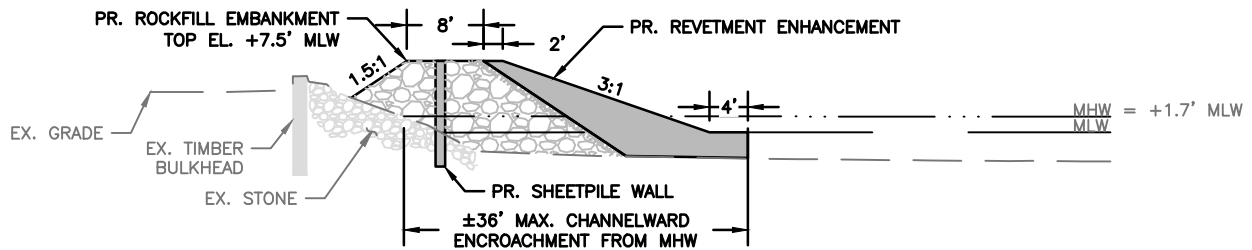
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Hanover, Maryland 21076 Fax: (410) 694-9405
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SECTION XS-8
SCALE: 1"=20'



SECTION XS-9
SCALE: 1"=20'



SECTION XS-10
SCALE: 1"=20'

**MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

APPL. BY: THE CITY OF CAMBRIDGE

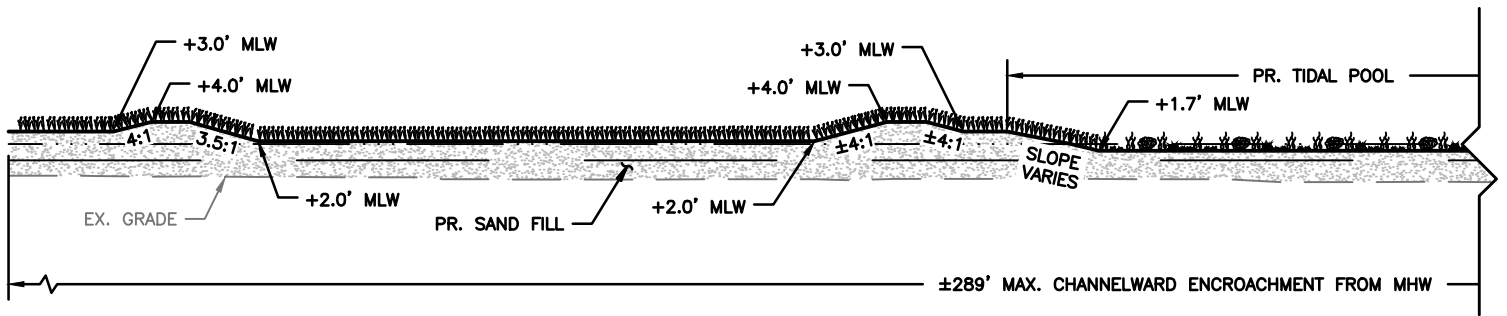
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DATE: APRIL 2026 SHEET 32 OF 35

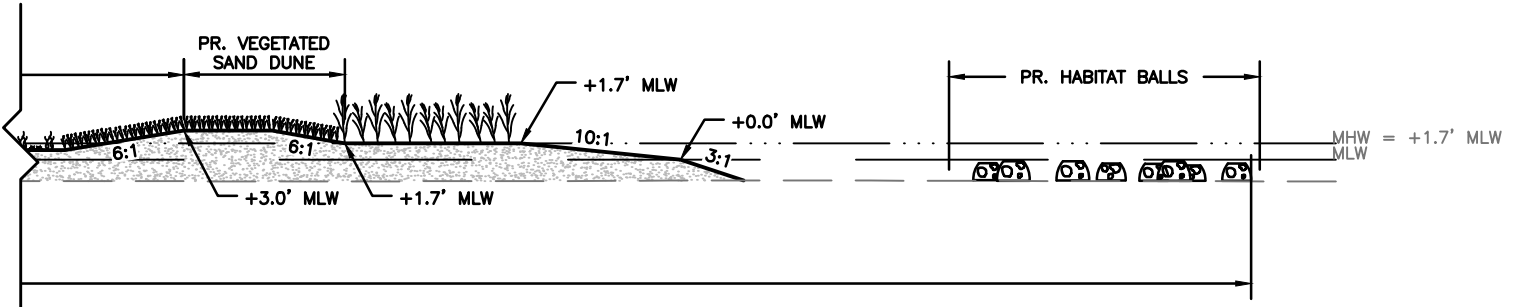
Bayland
Consultants & Designers, Inc.
"Integrating Engineering and Environment"

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Hanover, Maryland 21076 Fax: (410) 694-9405
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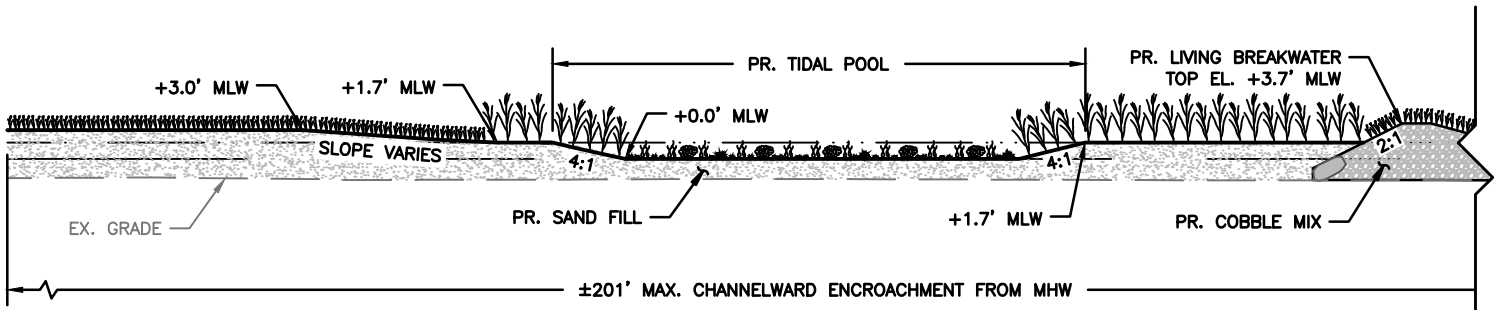
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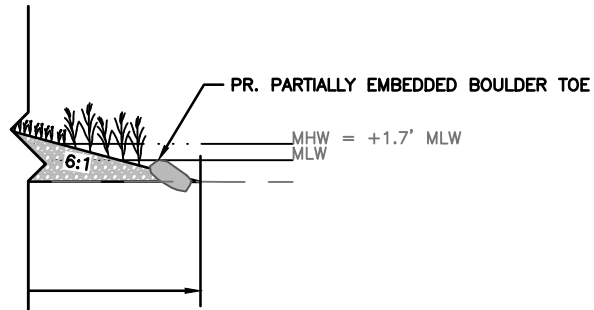
SECTION XS-11
SCALE: 1"=20'



SECTION XS-11 CONTINUED
SCALE: 1"=20'



SECTION XS-12
SCALE: 1"=20'



SECTION XS-12 CONTINUED
SCALE: 1"=20'

**MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE**

APPL. BY: THE CITY OF CAMBRIDGE

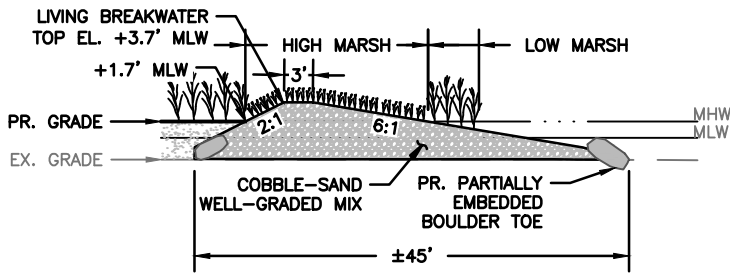
CROSS SECTIONS & TYPICALS

DATE: APRIL 2026 SHEET 33 OF 35

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

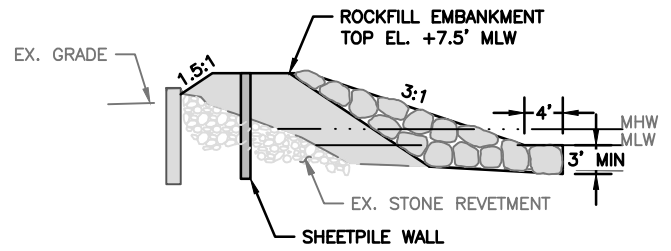
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
www.baylandinc.com

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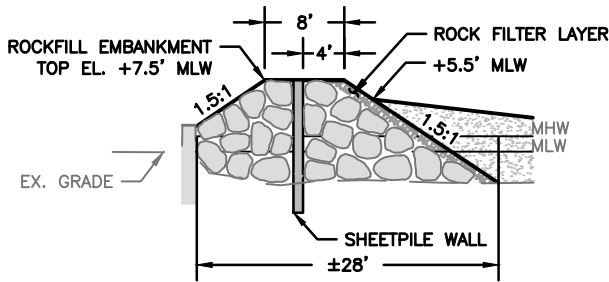
TYPICAL LIVING BREAKWATER

SCALE: 1"=20'



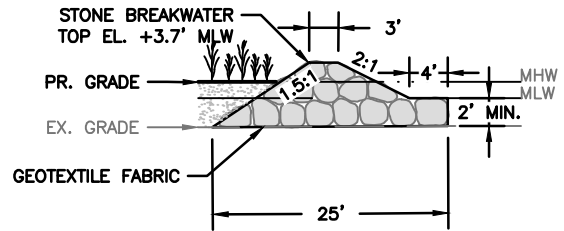
TYPICAL REVETMENT ENHANCEMENT

SCALE: 1"=20'



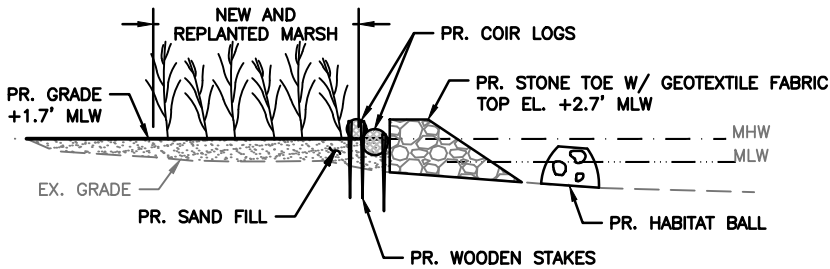
TYPICAL ROCKFILL EMBANKMENT

SCALE: 1"=20'



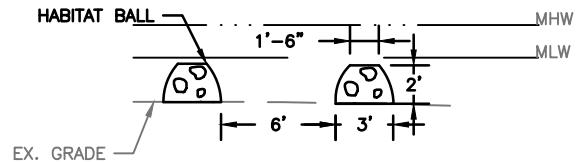
TYPICAL STONE BREAKWATER

SCALE: 1"=20'



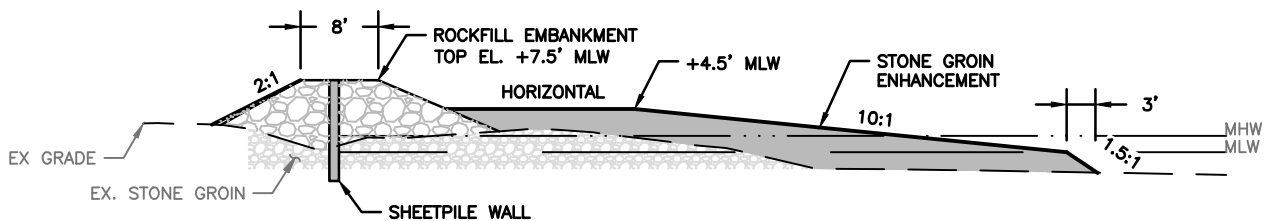
TYPICAL STONE TOE WITH 2 COIR LOGS

SCALE: 1"=10'



TYPICAL HABITAT BALL CLUSTER

SCALE: 1"=10'



TYPICAL STONE GROIN ENHANCEMENT

SCALE: 1"=20'

MAKE CAMBRIDGE RESILIENT
FLOOD MITIGATION PROJECT
AT
THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

CROSS SECTIONS & TYPICALS

DATE: APRIL 2026 SHEET 34 OF 35

PROJECT SUMMARY

MARSH PLANTINGS - 323,283 SF TOTAL (310,408 SF CHANNELWARD OF MHW)
LOW MARSH PLANTINGS - 136,302 SF (136,164 SF CHANNELWARD OF MHW)
HIGH MARSH PLANTINGS - 186,981 SF (174,244 SF CHANNELWARD OF MHW)

STONE BREAKWATER - 55,930 SF (55,930 SF CHANNELWARD OF MHW)

1. 2,465 SF, 145 LF
2. 3,451 SF, 203 LF
3. 3,451 SF, 203 LF
4. 4,607 SF, 271 LF
5. 2,023 SF, 119 LF
6. 1,564 SF, 92 LF
7. 2,397 SF, 141 LF
8. 3,672 SF, 216 LF
9. 3,672 SF, 216 LF
10. 2,023 SF, 119 LF
11. 1,768 SF, 104 LF
12. 2,975 SF, 175 LF
13. 1,598 SF, 94 LF
14. 2,465 SF, 145 LF
15. 2,788 SF, 164 LF
16. 2,788 SF, 164 LF
17. 2,788 SF, 164 LF
18. 3,485 SF, 205 LF
19. 3,485 SF, 205 LF
20. 2,465 SF, 145 LF

AVG. WIDTH : 17 LF

REEF BALLS - 336 TOTAL

COASTAL OUTFALLS - 5 TOTAL

LIVING BREAKWATERS - 11,254 SF TOTAL (11,254 SF IMPACT CHANNELWARD OF MHW)

STONE GROIN - 3,317 SF TOTAL (2,736 SF IMPACT CHANNELWARD OF MHW)

1. 1,528 SF, 104 LF
2. 1,790 SF, 119 LF

STONE REVETMENT - 4,732 SF TOTAL (4,723 SF IMPACT CHANNELWARD OF MHW)

1. 1,415 SF, 81 LF
2. 3,318 SF, 125 LF

SAND FILL - 77,922 SF TOTAL (74,395 SF CHANNELWARD OF MHW)

VEGETATED DUNES - 22,287 SF TOTAL (15,081 SF CHANNELWARD OF MHW)

HUMMOCKS - 10,533 SF TOTAL (9,499 SF CHANNELWARD OF MHW)

TIDAL POOLS - 53,845 SF TOTAL (53,845 SF CHANNELWARD OF MHW)

RATIO OF TIDAL MARSH TO TIDAL IMPACTS - 1.72 : 1 (259,268 SF : 150,806 SF)

- STONE STRUCTURES = 95,243 SF
MARSH ABOVE 3.5' MLW (UPPER TIDAL WETLANDS LIMIT) = 55,563 SF
MARSH BELOW 3.5' MLW (UPPER TIDAL WETLANDS LIMIT) = 259,268 SF

BENEFIT: 259,268 SF
IMPACT: 150,806 SF

NOTES

1. TOPOGRAPHIC SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED JUNE & JULY 2024. ADDITIONAL SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED APRIL 2025
2. BATHYMETRIC SURVEY WAS PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON JUNE 11 & 12, 2024 AND APRIL 1, 2025
3. HORIZONTAL AND VERTICAL CONTROL ESTABLISHED FROM REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) CONTROL POINTS.
4. THE EXISTING UTILITIES, GRADES, AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS.
5. CONTOURS SHOWN OUTSIDE OF LIMIT OF WORK ARE BASED ON CITY OF CAMBRIDGE 2023 GIS TOPOGRAPHY.
6. PROPERTY LINE SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC. DATED JUNE, 2024.
7. RIPRAP SHOWN IN PLAN VIEW AND PROFILE ARE SYMBOLIC AND DO NOT REPRESENT INDIVIDUAL STONES.
8. THE PROJECT SITE IS LOCATED WITHIN AN RCA ACCORDING TO MARYLAND CRITICAL AREA.
9. TIDAL RANGE ~ 1.6 FEET.

MAKE CAMBRIDGE RESILIENT FLOOD MITIGATION PROJECT AT THE CITY OF CAMBRIDGE

APPL. BY: THE CITY OF CAMBRIDGE

SITE NOTES

DATE: MAY 2026 SHEET 35 OF 35



Department of the Environment
Water Management Administration
Tidal Wetlands Division
1800 Washington Boulevard
Baltimore, Maryland 21230
(410) 537-3837

"A Commitment to Excellence in Managing Maryland's Water Resources"

PUBLIC NOTICE BILLING APPROVAL FORM

I agree to pay all expenses associated with the publishing of a public notice for the wetland application of

which is dated

(Applicant's Name)

Applicant/Agent Signature

Printed Name of Signee

Billing Address:

Telephone No.:

Please provide the names and mailing addresses of the adjacent property owners:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

NOTICE TO APPLICANTS

All projects involving water quality certifications require that a description of the proposed project be published in a local newspaper. This advertisement is necessary to fulfill legal public notice requirements. Projects that require public notice include, but are not limited to, the following:

- Certain projects regulated by the U. S. Army Corps of Engineers that require a State Water Quality Certification.
- Certain projects that require Federal permits or Licenses that require a State Water Quality Certification.

Depending on the timing of your Water Quality Certification application and other associated projects requiring public notice in the Wetlands and Waterways Program, this public notice may be able to be completed concurrently with those other authorizations. In the event it cannot be done concurrently, a separate Water Quality Certification public notice may be required to be published. The Water and Science Administration will arrange advertisement of the project for you. However, as the applicant for the project, you are responsible for paying the publishing costs. In order for this process of public notice to occur, your approval is necessary prior to publishing. Please complete the form on the other side of this page and return it to the Water and Science Administration so that your proposed project may be advertised without delay. Please make sure to sign the form. Processing of your application can not continue until a signed form is received.

Please call the Wetlands and Waterways Program at 410-537-3745 if you have any questions.

Thank you for your assistance in this matter.

PLEASE COMPLETE THE OTHER SIDE OF THIS PAGE

NOTICE TO APPLICANTS

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WETLANDS AND WATERWAYS PROGRAM
1800 WASHINGTON BOULEVARD, SUITE 430
BALTIMORE, MARYLAND 21230-1708
410-537-3745**

PUBLIC NOTICE BILLING APPROVAL FORM

I agree to pay all expenses associated with the publishing of a public notice for the Water Quality Certification Application submitted by City of Cambridge, which was dated and signed by you on _____April 2026_____.

Applicant/Agent Signature

Wayne Suggs

Printed Name of Signee

Please Print

Billing Address

1025 Washington Street, Cambridge MD, 21613

Phone Number

410-228-1955

**NOTICE TO SHORE EROSION CONTROL APPLICANTS
CRITICAL AREA BUFFER NOTIFICATION FORM
Submittal Requirements**

WHEN submitting a shore erosion control application to the Maryland Department of the Environment (MDE), the owner or their representative shall submit the following:

- The proposed Buffer Management Plan
- This Critical Area Buffer Notification Form

Examples of Buffer Management Plans can be obtained by contacting the local government or the Critical Area Commission. This information is also available on the Commission's website. See contact information at the bottom of this form.

Notice

- 1) If this form is not included in the application it may result in the delay or denial of the tidal wetlands application by MDE.
- 2) In addition to a Federal or State authorization, a local government approval is required before you begin your project.
- 3) Before beginning any work, including site preparation and stockpiling of materials, the owner or their representative must obtain:

- An authorization from MDE to construct and install a shore erosion control measure;
- Approval of the Buffer Management Plan from the local jurisdiction; **AND**
- Any other required local permits.

4) Buffer disturbance without a locally approved Buffer Management Plan or buffer disturbance that is not consistent with a locally approved Buffer Management Plan is a violation of State and local laws.

Certification

I have read and understand the requirements described in this Notification Form. I will abide by these requirements and the conditions of any State authorization or local approval. I will not begin work without all proper authorizations. Upon reasonable notice, I authorize the right to enter for periodic on-site evaluation by official representatives of the local Critical Area permitting authority.

SIGNATURE OF PROPERTY OWNER OR REPRESENTATIVE:

PRINTED NAME:

DATE:

ADDRESS OF SHORE EROSION
CONTROL PROJECT:

Critical Area Commission for the Chesapeake and Atlantic Coastal Bays □ 1804 West Street, Suite 100 □
Annapolis, MD 21401 □ (410) 260-3460 □ See www.dnr.state.md.us/criticalarea/ for a list of local Critical
Area permitting authorities.

Rev. 1/15/14

Adjoining Riparian Property Owner, Homeowners Association, and Appropriate Local Official Notification Certification Form

(COMAR 26.24.01.04C)

I have notified, in writing, and provided a copy of the application and plan(s) of my proposal to perform work in tidal wetlands to all riparian property owners adjoining to my property located at the address listed below. **The property owners have been advised, in writing, that they have two weeks from the receipt of the application and plan(s) to direct any comments to the Maryland Department of the Environment.**

In Person on _____
Date Delivered

By Certified Mail on _____
Date Delivered

My property is part of and/or subject to a Homeowners Association (HOA) and my proposed work may be subject to their review and approval. I have notified, in writing, and provided a copy of the application and plans(s) of my proposal to the HOA representative. If HOA approval is required, I have provided the approval to MDE as part of my application.

In Person on _____
Date Delivered

By Certified Mail on _____
Date Delivered

I have notified, in writing, and provided plans of my proposal to perform work in tidal wetlands to the Director of Planning in the County in which my project is located:

In Person on _____
Date Delivered

By Certified Mail on _____
Date Delivered

The City of Cambridge

(Name of Riparian Property Owner)

Queen Anne's - High Steet

(Project Site Street Address)

Cambridge, MD, 21613

(City, State, Zip Code)

Please list below all the contiguous riparian property owners notified. Attach additional pages if necessary.

Names	Addresses
See attached property owners list	
	Larry White
<i>(Riparian Property Owner Signature)</i>	<i>(Printed Name)</i>

**MAKE CAMBRIDGE RESILIENT FLOOD PROTECTION AND HABITAT ENHANCEMENT PROJECT
ADJACENT PROPERTY OWNERS**

NAME	CURRENT PROPERTY OWNER	PROPERTY ADDRESS	CITY	STATE	ZIP CODE	MAILING ADDRESS	CITY	STATE	ZIP CODE
SEWELL HUBBERT	OR CURRENT PROPERTY OWNER	1 QUEEN ANNE AVE	CAMBRIDGE	MD	21613	1501 HAMBROOKS BLVD	CAMBRIDGE	MD	21613
COMMISSIONERS OF CAMBRIDGE	OR CURRENT PROPERTY OWNER	GREAT MARSH	CAMBRIDGE	MD	21613	410 ACADEMY ST	CAMBRIDGE	MD	21613
JHAN SHILLING TANGIRES	OR CURRENT PROPERTY OWNER	1 BELVEDERE AVE	CAMBRIDGE	MD	21613	1 BELVEDERE AVE	CAMBRIDGE	MD	21613
JON SCOTT SHILLING	OR CURRENT PROPERTY OWNER	1A BELVEDERE AVE	CAMBRIDGE	MD	21613	1A BELVEDERE AVE	CAMBRIDGE	MD	21613
LAWRENCE & MARIT WHITE	OR CURRENT PROPERTY OWNER	2 BELVEDERE AVE	CAMBRIDGE	MD	21613	2 BELVEDERE AVENUE	CAMBRIDGE	MD	21613
OAKLEY BEACH LLC	OR CURRENT PROPERTY OWNER	1 OAKLEY ST	CAMBRIDGE	MD	21613	ENTRY MANAGEMENT INC, 2180 W STATE RD S	LONGWOOD	FL	32779
2 OAKELY STREET INVESTMENTS LLC	OR CURRENT PROPERTY OWNER	2 OAKLEY ST	CAMBRIDGE	MD	21613	8847 NORTH BEND CIR	EASTON	MD	21601
ANNABELLE HURLEY	OR CURRENT PROPERTY OWNER	904 OAKLEY TER	CAMBRIDGE	MD	21613	906 OAKLEY TERRACE	CAMBRIDGE	MD	21613
MARY MARGARET LOSTY	OR CURRENT PROPERTY OWNER	902 OAKLEY TER	CAMBRIDGE	MD	21613	9 MANITO DR	CAMBRIDGE	MD	21613
KAREN HICKS	OR CURRENT PROPERTY OWNER	900 OAKLEY TER	CAMBRIDGE	MD	21613	11610 FOREST GREEN LN	FORT WASHINGTON	MD	20744
CHET H & LEANN H MCWILLIAMS	OR CURRENT PROPERTY OWNER	2 WILLIS ST	CAMBRIDGE	MD	21613	2 WILLIS ST	CAMBRIDGE	MD	21613
THOMAS & LINDA KRANZ	OR CURRENT PROPERTY OWNER	1 WEST END AVE	CAMBRIDGE	MD	21613	1 WEST END AVE	CAMBRIDGE	MD	21613
BETSY DAVIS	OR CURRENT PROPERTY OWNER	4 WEST END AVE	CAMBRIDGE	MD	21613	4 WEST END AVENUE	CAMBRIDGE	MD	21613
MICHELLE DOLGE	OR CURRENT PROPERTY OWNER	3 CHOPTANK AVE	CAMBRIDGE	MD	21613	3145 BEECH ST NW	WASHINGTON	DC	20015
JAMES BRADY	OR CURRENT PROPERTY OWNER	2 CHOPTANK AVE	CAMBRIDGE	MD	21613	2 CHOPTANK AVE	CAMBRIDGE	MD	21613
CAMBRIDGE YACHT CLUB INC	OR CURRENT PROPERTY OWNER	1 YACHT CLUB DR	CAMBRIDGE	MD	21613	PO BOX 287	CAMBRIDGE	MD	21613

Make Cambridge Resilient Flood Mitigation Alternatives Analysis

Introduction

The Make Cambridge Resilient initiative is a comprehensive climate adaptation effort led by the City of Cambridge, Maryland. Located on the Choptank River on the lower eastern shore of the Chesapeake Bay, the City faces increasing risks from rising sea levels, storm surge, and more frequent high-intensity rainfall events. With some areas of the community below +4 feet NAVD88, the risks are compounded by aging stormwater infrastructure situated in the floodplain.

The project site is located in Cambridge, Maryland, focusing on approximately 8,000 linear feet of shoreline, extending from the mouth of Cambridge Creek westward past Great Marsh Park to Pinks Pond, encompassing residential neighborhoods, public parks, and open space. The project Area fronts the Choptank River's widest reach approximately 16 miles up-river of the Chesapeake Bay.

The shoreline is characterized by shallow water depths (approximately 2 - 3 feet below NAVD88), aging stormwater infrastructure, and low elevations along the shoreline, placing the area at high risk of daily tidal, or nuisance, flooding and storm surge. The project site includes critical public infrastructure, vulnerable residential neighborhoods, and important recreational areas such as Gerry Boyle Park (GBP) and Long Wharf Park.

To address these threats, the City is implementing a hybrid flood mitigation strategy that integrates nature-based solutions such as living shorelines and stormwater best management practices (BMPs) with more traditional embankment and stormwater infrastructure upgrades. The living shoreline component extends approximately 1.6 miles along the City's low-lying waterfront is paired with a stormwater-wetland facility at GBP to reduce runoff volumes and improve water quality before discharging into the Choptank River.

Project Goals

Improve Costal Resiliency

- Reduce shoreline erosion and land loss
- Limit wave energy reaching the shoreline and flood protection system under both frequent and extreme conditions
- Reduce wave overtopping and shoreline damage during elevated water levels
- Maintain performance under projected sea level rise conditions
- Stabilize nearshore sediments to support long-term shoreline integrity

Protect Public Safety and Infrastructure

- Provide a continuous line of flood protection along the project corridor
- Protect against tidal flooding and storm surge up to the design flood elevation
- Reduce flooding of roads, parks, and access points during storm events
- Minimize risk to residential areas from wave overtopping and high-water levels
- Maintain reliable access and emergency connectivity during storm events

Provide Ecological Uplift

- Restore and enhance tidal marsh and nearshore habitat

- Increase habitat diversity through incorporation of varied elevations and features where feasible
- Support habitat for fish, shellfish, and other aquatic species
- Integrate habitat features as part of the shoreline protection system

Improve Water Quality

- Reduce turbidity through sediment stabilization
- Improve water quality through treatment of stormwater runoff and natural filtration systems
- Support natural filtration through marsh and shallow water systems

Maintain Public Use and Navigation

- Support continued recreational and community use of waterfront areas
- Maintain navigation access and shoreline functionality

Support Adaptable, Long-Term Management

- Provide a scalable shoreline strategy for future conditions
- Maintain effectiveness under future sea level rise scenarios
- Integrate shoreline protection, flood mitigation, and stormwater management into a coordinated system
- Minimize long-term maintenance requirements through resilient design
- Support broader resilience planning efforts across Cambridge

Shoreline Improvements Alternatives Analysis

The City of Cambridge evaluated a range of shoreline stabilization and flood mitigation alternatives to address coastal flooding, shoreline erosion, and long-term resilience to sea level rise along the project corridor. Alternatives were developed to span from the 'Do Nothing' alternative to fully integrated nature-based systems.

1. **Do Nothing** – This alternative includes no construction or modification of existing shoreline or flood protection features.

Existing bulkheads, revetments, and low-lying shoreline areas would remain in their current condition. Shoreline erosion, structural degradation, and tidal flooding would continue and are expected to worsen under future sea level rise and storm conditions. Wave overtopping would continue to impact roads, parks, and adjacent properties. No improvements to habitat, water quality, or shoreline stability would occur.

This alternative would result in no new impacts to jurisdictional waters or wetlands; however, it does not meet the project purpose and need.

2. **Repair and Maintain Existing Shoreline Structures** – This alternative includes repair and maintenance of existing shoreline protection features, including bulkheads, revetments, and localized erosion control measures.

Work would consist of patching or replacing damaged structural elements and replacing or formalizing shoreline protection elements where necessary. Improvements would extend service life of existing infrastructure but would not significantly change shoreline alignment or elevation.

This alternative would provide short-term shoreline stabilization but would not reduce wave energy or flooding under higher water levels. Overtopping would continue during storm events and regular nuisance flooding as sea levels continue to rise. No ecological uplift or water quality improvements would be achieved. Impacts to tidal waters would be minimal, as work would occur primarily within previously disturbed areas. This alternative does not meet the long-term resiliency or ecological goals of the project.

3. **Hardened Shoreline Protection (Seawall and Revetment System)** – This alternative includes construction of a continuous hardened flood protection system along the project corridor. The system would generally consist of a floodwall to provide a continuous line of flood protection, with a stone revetment channelward where needed to protect the flood protection structure and reduce wave impact.

This alternative would provide a high level of shoreline stabilization and flood protection under current and future water level conditions. The continuous flood protection would reduce inundation from tidal flooding and storm surge, while the revetment would improve structural stability and reduce wave breaking on the floodwall. However, this alternative would result in a fully hardened shoreline and would provide little to no ecological uplift, habitat creation, or water quality benefits. It would also limit natural shoreline processes, prevent marsh migration, and maintain or increase wave reflection along the shoreline.

Revetment construction and other associated shoreline modifications would result in impacts to tidal waters. Although this alternative would meet the flood protection objective or broader project goals related to habitat enhancement, water quality improvement, and nature-based coastal resilience.

4. **Localized Flood Protection with Living Shoreline** – This alternative includes construction of a reduced-footprint hybrid living shoreline system combined with limited flood protection measures.

The shoreline component consists of marsh plantings and limited structural features such as low-profile stone structures. The footprint of these features is minimized to reduce impacts to tidal waters. To address flooding, this alternative includes minor elevation improvements at select low-lying areas. These may include small berms, localized embankments, or minor roadway raising where chronic nuisance flooding occurs.

This alternative would provide some wave attenuation and shoreline stabilization under moderate conditions. It would also provide ecological benefits through marsh creation and improve water quality through natural filtration processes. However, the reduced scale of both the shoreline features and flood protection elements limits overall effectiveness. Marsh areas would be more vulnerable to overtopping during storm events and floodwaters could easily bypass localized protection measures through gaps along the project length.

This alternative would provide partial reduction in shoreline erosion and flooding but would not establish a continuous or reliable flood protection system during more extreme surge events. As sea levels rise, the performance of this alternative would decrease over

time. This alternative partially meets the project goals but does not provide sufficient long-term resiliency or comprehensive flood protection.

- 5. Continuous Flood Protection with Standard Living Shoreline** – This alternative includes construction of a continuous embankment, floodwall, or raised grade designed to meet the target design flood elevation. This system would provide a consistent line of protection against tidal flooding and storm surge along the full project length. The shoreline component consists of a standard living shoreline, including low-profile stone sills, sand fill, and low and high marsh plantings constructed in accordance with typical regulatory guidance (Figure 1). These features would provide shoreline stabilization, reduce wave energy at the shoreline, and improve nearshore habitat.

This alternative would provide a high level of flood protection by preventing inland inundation under design conditions while also reducing shoreline erosion and waves impacting the toe of the flood protection system. The marsh and nearshore features would provide ecological uplift and improve water quality through sediment stabilization and pollutant filtration. However, the standard living shoreline configuration provides less wave attenuation than systems incorporating expanded marsh platforms. As a result, wave energy reaching the shoreline would be reduced but not to the same level as more robust hybrid systems. Increased wave action at the shoreline may reduce long-term stability and resilience of the marsh features, particularly under future sea level rise and storm conditions.

Impacts to tidal waters would occur from the placement of stone sills and marsh fill but would be offset by the creation of tidal marsh habitat and improved ecological function. This alternative meets the flood protection objective and provides some ecological benefits but does not achieve the same level of wave attenuation or long-term shoreline resilience as more comprehensive nature-based systems.

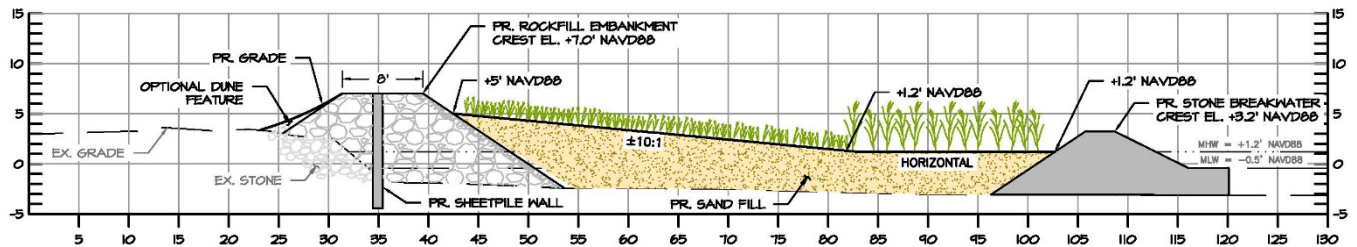


Figure 1 - Typical living shoreline with breakwater

- 6. Comprehensive Nature-Based Flood Mitigation System (Preferred Alternative)** – This alternative includes full implementation of an integrated shoreline stabilization and flood mitigation system along the entire project corridor.

The design combines offshore wave attenuation features with continuous flood protection and nature-based shoreline elements to address both coastal and inland flooding mechanisms. Offshore stone breakwaters and habitat featured are used to reduce incoming wave energy before reaching the flood protection system. Landward of these features, extensive low and high marsh terraces, where feasible to maintain access and current use, are constructed using sand fill and native plantings to stabilize

sediments, reduce wave runup, and provide enhanced ecological function (Figures 2 and 3).

Upland of the marsh system, a continuous line of flood protection is established through a combination of earthfill embankments, rockfill embankments, bulkheads, and raised roadways to meet the target design flood elevation. Integrated drainage features, including swales, outfalls, and stormwater treatment elements, are incorporated to manage runoff and prevent backwater flooding. Together, these elements form a continuous system that attenuates wave energy, limits shoreline erosion, reduces overtopping, and prevents inland inundation along approximately 8,000 linear feet of shoreline. This alternative provides the highest level of protection among those evaluated by addressing future coastal wave and flood processes.

In addition to flood protection, this alternative provides substantial ecological uplift through the creation of tidal marsh, shallow water habitat, and transitional upland features. Water quality benefits are achieved through sediment stabilization and natural filtration provided by the marsh and stormwater management systems. Although this alternative results in the largest footprint within tidal waters, impacts are minimized through the use of nature-based features that provide functional habitat and long-term resilience. The system is designed to adapt to future sea level rise and changing coastal conditions while maintaining performance over time. This alternative meets all project goals and fully satisfies the project purpose and need by integrating shoreline stabilization, flood mitigation, ecological enhancement, and long-term adaptability.

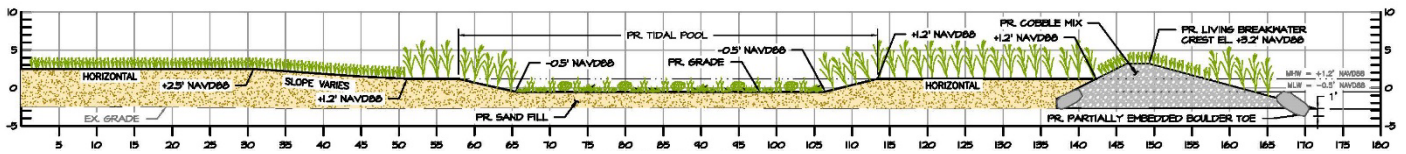


Figure 3 - Example expanded habitat area featuring tidal pool, high and low marsh, and a "living" breakwater

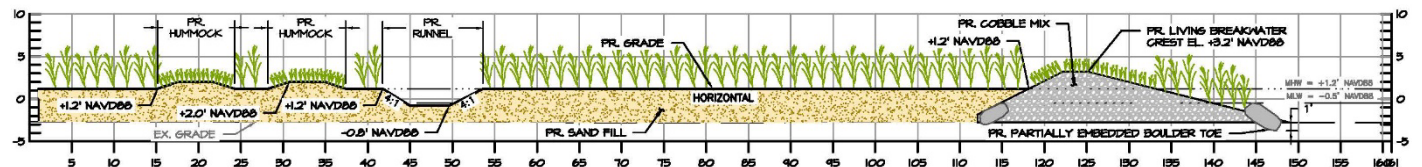


Figure 3 - Habitat enhancement area near Long Wharf Park featuring a hummock field and runnels (boxed in blue) for tidal connectivity.

The following evaluation reflects each alternative's ability to meet the project goals as defined above, including provision of continuous flood protection to the design elevation and integration of shoreline, habitat, and stormwater systems (Table 1).

Table 1 – Achieved Project Goals by Alternative

Alternative	Improve Costal Resiliency	Protect Public Safety and Infrastructure	Provide Ecological Uplift	Improve Water Quality	Maintain Public Use and Navigation	Support Adaptable, Long-Term Management
Do-Nothing	No	No	No	No	Yes	No
Repair and Maintain Existing Shoreline Structures	No	No	No	No	Yes	No
Hardened Shoreline Protection (Seawall and Revetment System)	Yes	Yes	No	No	Yes	No
Localized Flood Protection with Living Shoreline	No	No	Yes	Yes	Yes	No
Continuous Flood Protection with Standard Living Shoreline	Yes	Yes	Yes	No	Yes	No
Comprehensive Nature-Based Flood Mitigation System	Yes	Yes	Yes	Yes	Yes	Yes