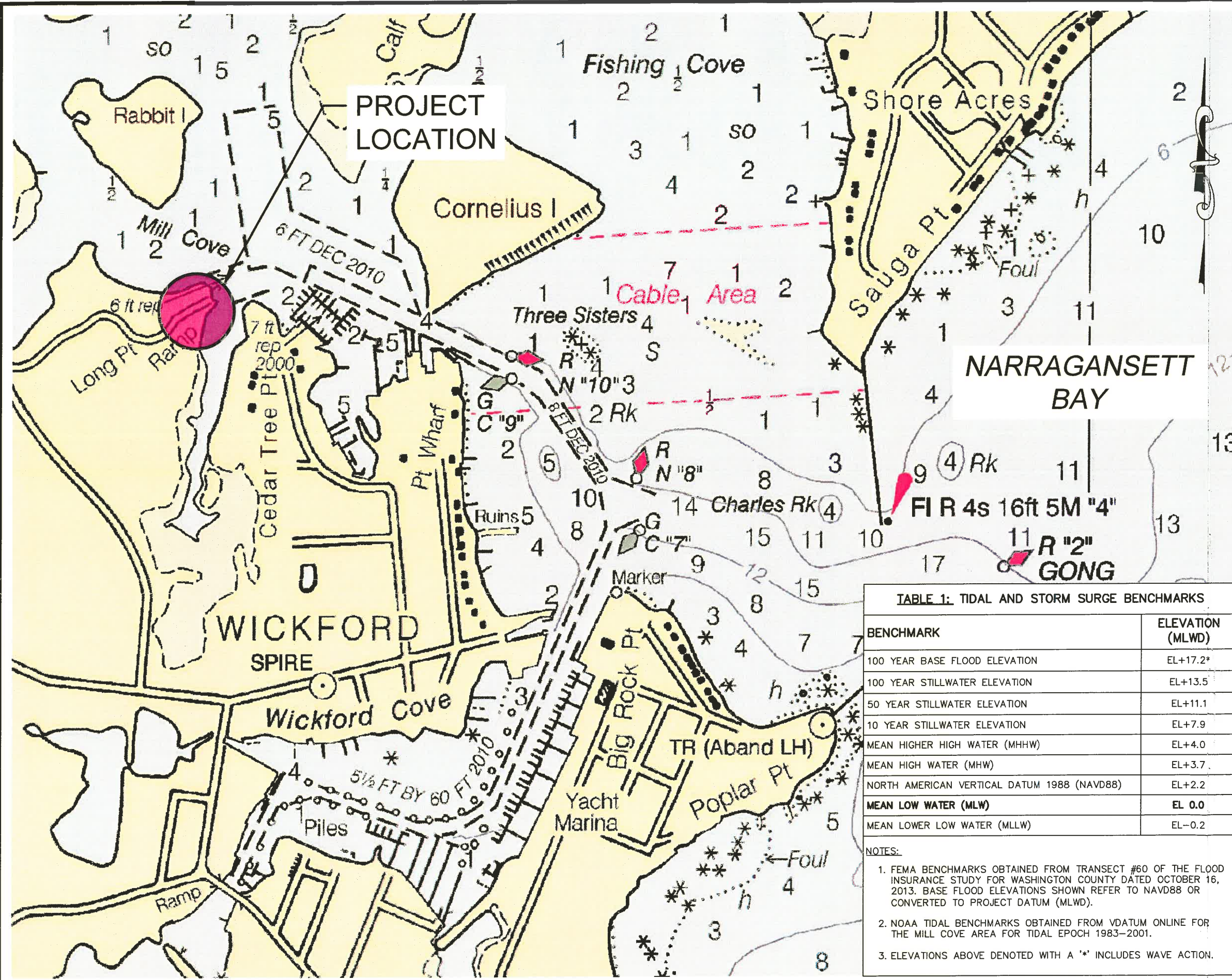
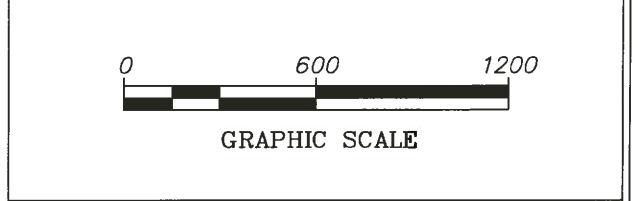


2022-NK-093



**HE**  
**HARBOR ENGINEERING, LLC**  
 26 BOSWORTH STREET  
 BARRINGTON, RI 02806  
 (401) 829-4870  
 harboreng.com

No.	Revision	Date	App.
1	REVETMENT GRADING ALTERED PER CRMC	1/27/23	



Client/Owner:  
**TOWN OF NORTH KINGSTOWN**  
 DEPARTMENT OF PUBLIC WORKS  
 2050 DAVISVILLE ROAD  
 NORTH KINGSTOWN, RI 02852

Issued for:  
**WILSON PARK BOAT RAMP IMPROVEMENTS REGULATORY REVIEW NOT FOR CONSTRUCTION**

Drawing Title:  
**VICINITY CHART**  
 NOAA CHART #13223  
 NARRAGANSETT BAY, RHODE ISLAND  
 VERTICAL DATUM: MLLWD

**TABLE 1: TIDAL AND STORM SURGE BENCHMARKS**

BENCHMARK	ELEVATION (MLWD)
100 YEAR BASE FLOOD ELEVATION	EL+17.2*
100 YEAR STILLWATER ELEVATION	EL+13.5
50 YEAR STILLWATER ELEVATION	EL+11.1
10 YEAR STILLWATER ELEVATION	EL+7.9
MEAN HIGHER HIGH WATER (MHHW)	EL+4.0
MEAN HIGH WATER (MHW)	EL+3.7
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)	EL+2.2
MEAN LOW WATER (MLW)	EL 0.0
MEAN LOWER LOW WATER (MLLW)	EL-0.2

- NOTES:**
- FEMA BENCHMARKS OBTAINED FROM TRANSECT #60 OF THE FLOOD INSURANCE STUDY FOR WASHINGTON COUNTY DATED OCTOBER 16, 2013. BASE FLOOD ELEVATIONS SHOWN REFER TO NAVD88 OR CONVERTED TO PROJECT DATUM (MLWD).
  - NOAA TIDAL BENCHMARKS OBTAINED FROM VDATUM ONLINE FOR THE MILL COVE AREA FOR TIDAL EPOCH 1983-2001.
  - ELEVATIONS ABOVE DENOTED WITH A "\*" INCLUDES WAVE ACTION.

Date: 2/16/2023  
 Scale: 1" = 600 FT

Designed By: AJK  
 Drawn by: AJK  
 Checked by:  
 Project Number: 2022-10

**RECEIVED**  
 FEB 16 2023

Sheet 1 of 7  
 Drawing Number: C-1

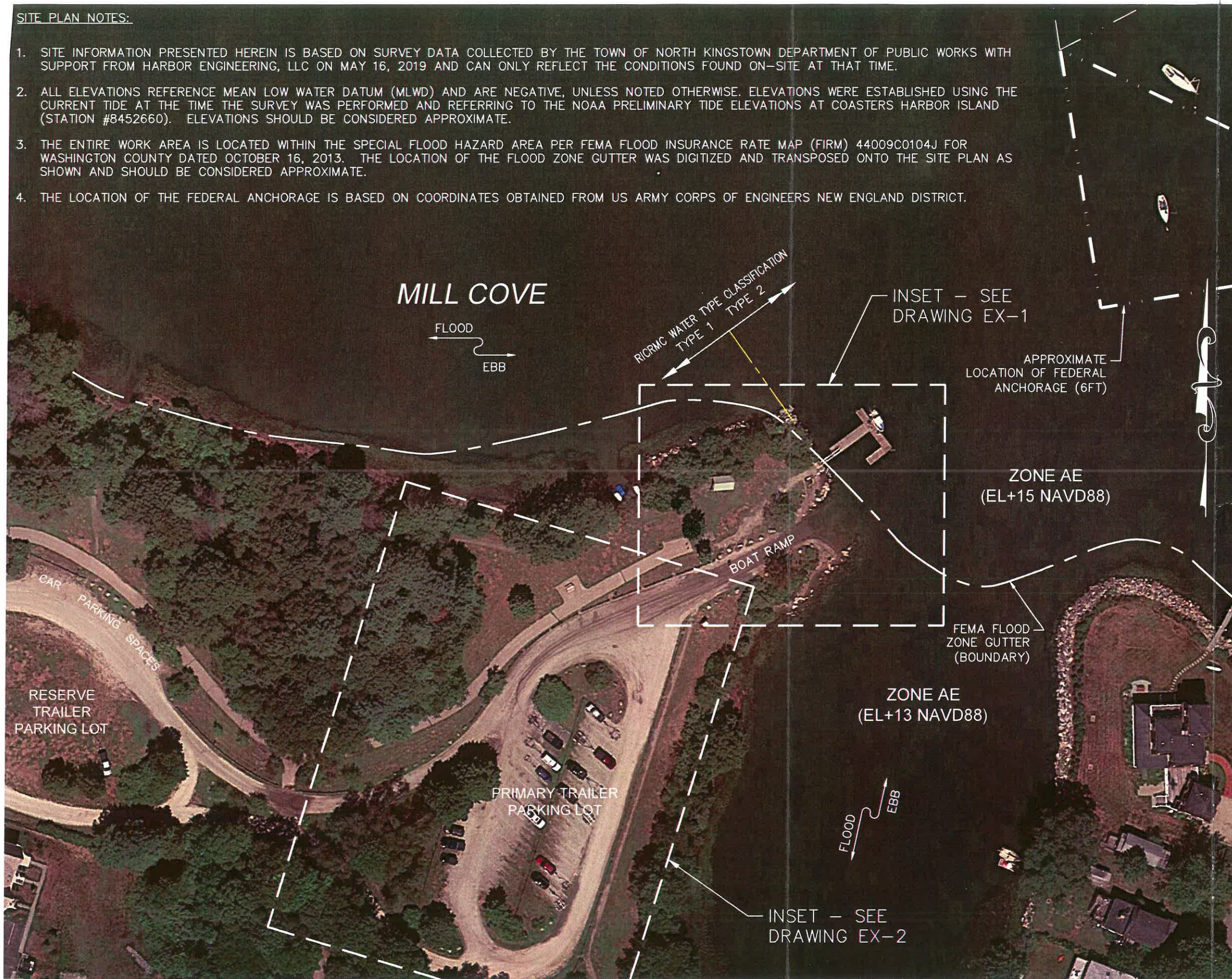
**REGISTERED PROFESSIONAL ENGINEER**  
 CIVIL 2/16/2023

**RESOURCES MANAGEMENT COUNCIL**



SITE PLAN NOTES:

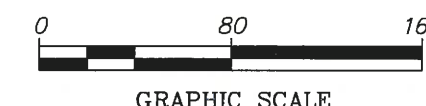
1. SITE INFORMATION PRESENTED HEREIN IS BASED ON SURVEY DATA COLLECTED BY THE TOWN OF NORTH KINGSTOWN DEPARTMENT OF PUBLIC WORKS WITH SUPPORT FROM HARBOR ENGINEERING, LLC ON MAY 16, 2019 AND CAN ONLY REFLECT THE CONDITIONS FOUND ON-SITE AT THAT TIME.
2. ALL ELEVATIONS REFERENCE MEAN LOW WATER DATUM (MLWD) AND ARE NEGATIVE, UNLESS NOTED OTHERWISE. ELEVATIONS WERE ESTABLISHED USING THE CURRENT TIDE AT THE TIME THE SURVEY WAS PERFORMED AND REFERRING TO THE NOAA PRELIMINARY TIDE ELEVATIONS AT COASTERS HARBOR ISLAND (STATION #8452660). ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE.
3. THE ENTIRE WORK AREA IS LOCATED WITHIN THE SPECIAL FLOOD HAZARD AREA PER FEMA FLOOD INSURANCE RATE MAP (FIRM) 44009C0104J FOR WASHINGTON COUNTY DATED OCTOBER 16, 2013. THE LOCATION OF THE FLOOD ZONE GUTTER WAS DIGITIZED AND TRANSPOSED ONTO THE SITE PLAN AS SHOWN AND SHOULD BE CONSIDERED APPROXIMATE.
4. THE LOCATION OF THE FEDERAL ANCHORAGE IS BASED ON COORDINATES OBTAINED FROM US ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT.



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1	REVETMENT GRADING ALTERED PER CRMC	1/27/23	



Client/Owner:  
**TOWN OF NORTH KINGSTOWN**  
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 2050 DAVISVILLE ROAD  
 NORTH KINGSTOWN, RI 02852

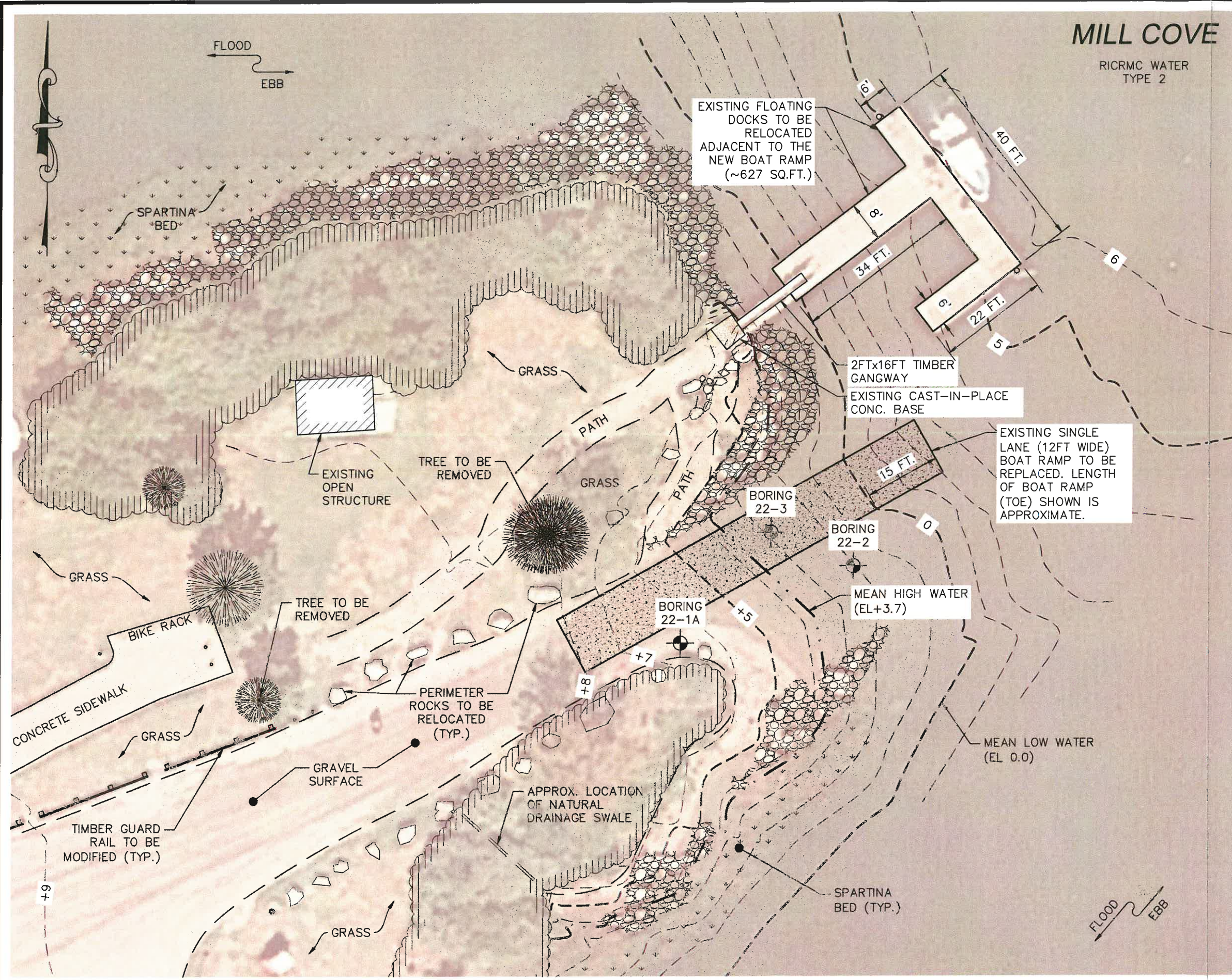
Issued for:  
**WILSON PARK BOAT RAMP IMPROVEMENTS**  
 REGULATORY REVIEW  
 NOT FOR CONSTRUCTION

Drawing Title:  
**AERIAL PHOTO**  
 GOOGLE EARTH  
 PHOTO TAKEN AUGUST 22, 2016

	Date:	2/16/2023
	Scale:	1" = 80 FT
	Designed By:	AJK
	Drawn by:	AJK
	Checked by:	AJK
	Project Number:	2022-10
Sheet	2 of 7	
Drawing Number:	A-1	

COASTAL RESOURCES MANAGEMENT COUNCIL



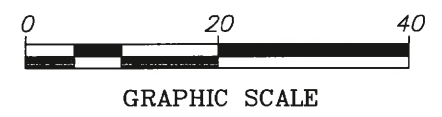


**MILL COVE**  
RICRMC WATER TYPE 2



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Client/Owner:  
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NORTH KINGSTOWN, RI 02852

Issued for:  
**WILSON PARK BOAT RAMP IMPROVEMENTS REGULATORY REVIEW NOT FOR CONSTRUCTION**

Drawing Title:  
**SITE PLAN**  
EXISTING CONDITIONS  
(MEAN LOW WATER DATUM)

**AUGUST J. KREUZKAMP, III**  
No. 7949  
REGISTERED PROFESSIONAL ENGINEER CIVIL 2/16/2023

Date: 2/16/2023  
Scale: 1" = 20 FT  
Designed By: AJK  
Drawn by: AJK  
Checked by: [Signature]  
Project Number: 2022-10  
Sheet 3 of 7  
Drawing Number: EX-1  
FEB 20 2023

COASTAL RESOURCES MANAGEMENT COUNCIL



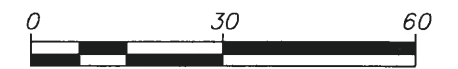
# WILSON PARK



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No.	Revision	Date	App.
1	REVTMENT GRADING ALTERED PER CRMC	1/27/23	



GRAPHIC SCALE

Client/Owner:

**TOWN OF NORTH KINGSTOWN**

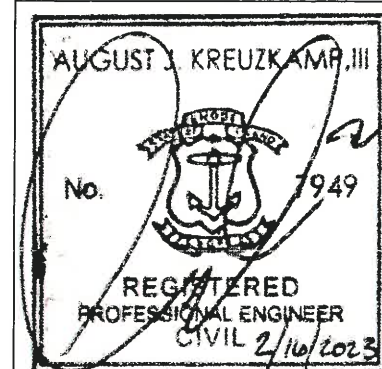
DEPARTMENT OF PUBLIC WORKS  
2050 DAVISVILLE ROAD  
NORTH KINGSTOWN, RI 02852

Issued for:

WILSON PARK BOAT RAMP IMPROVEMENTS  
REGULATORY REVIEW  
NOT FOR CONSTRUCTION

Drawing Title:

**EXISTING PARKING AREA**

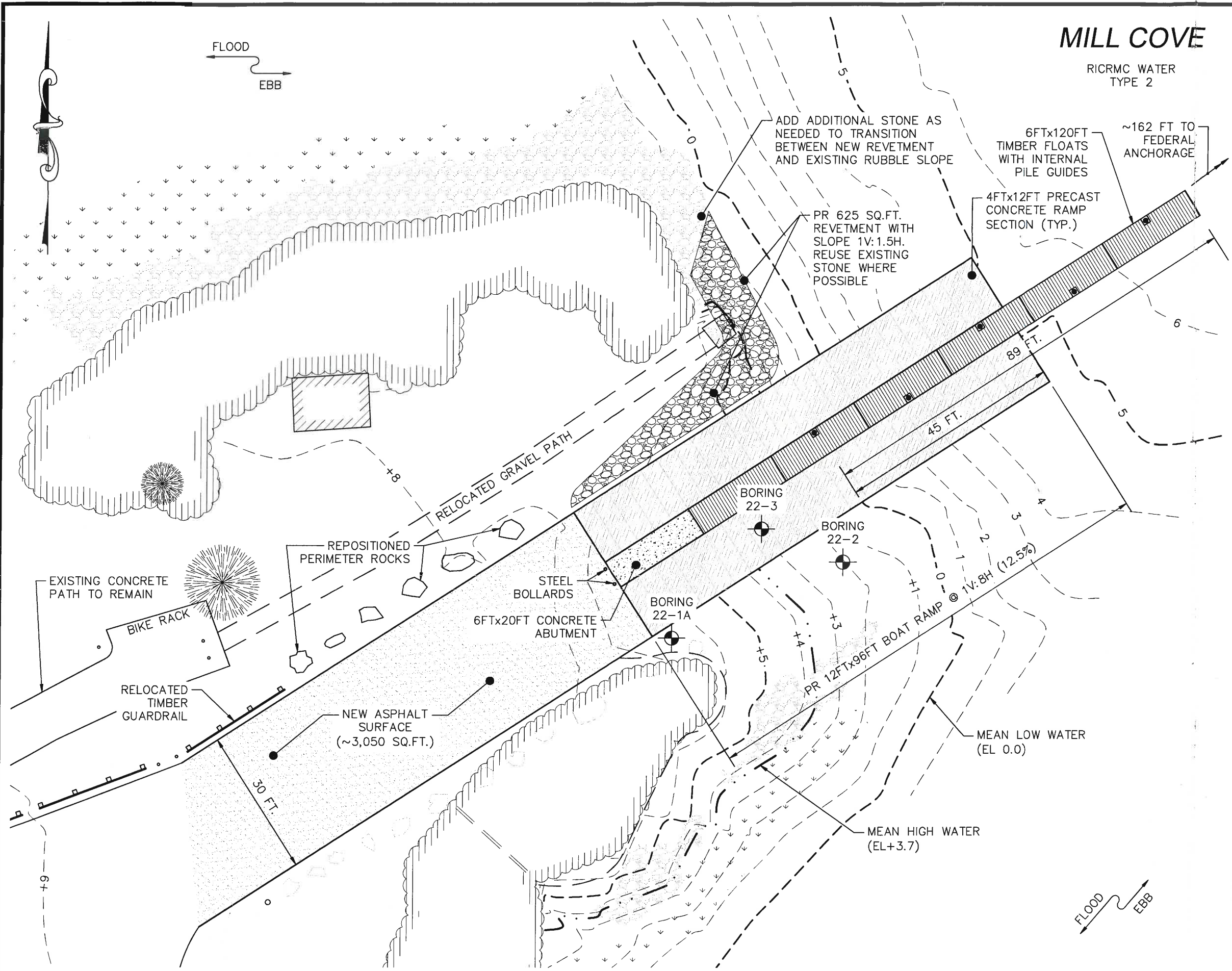


Date:	2/16/2023
Scale:	1" = 20 FT
Designed By:	AJK
Drawn by:	AJK
Checked by:	
Project Number:	2022-10
Sheet:	4 of 7
Drawing Number:	EX-2

COASTAL RESOURCES  
MANAGEMENT COUNCIL  
 FEB 20 2023







# MILL COVE

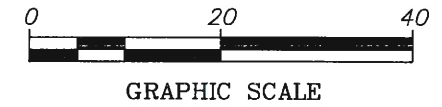
RICRMC WATER  
TYPE 2



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No.	Revision	Date	App.
1	REVETMENT GRADING ALTERED PER CRMC	1/27/23	



Client/Owner:  
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NORTH KINGSTOWN, RI 02852

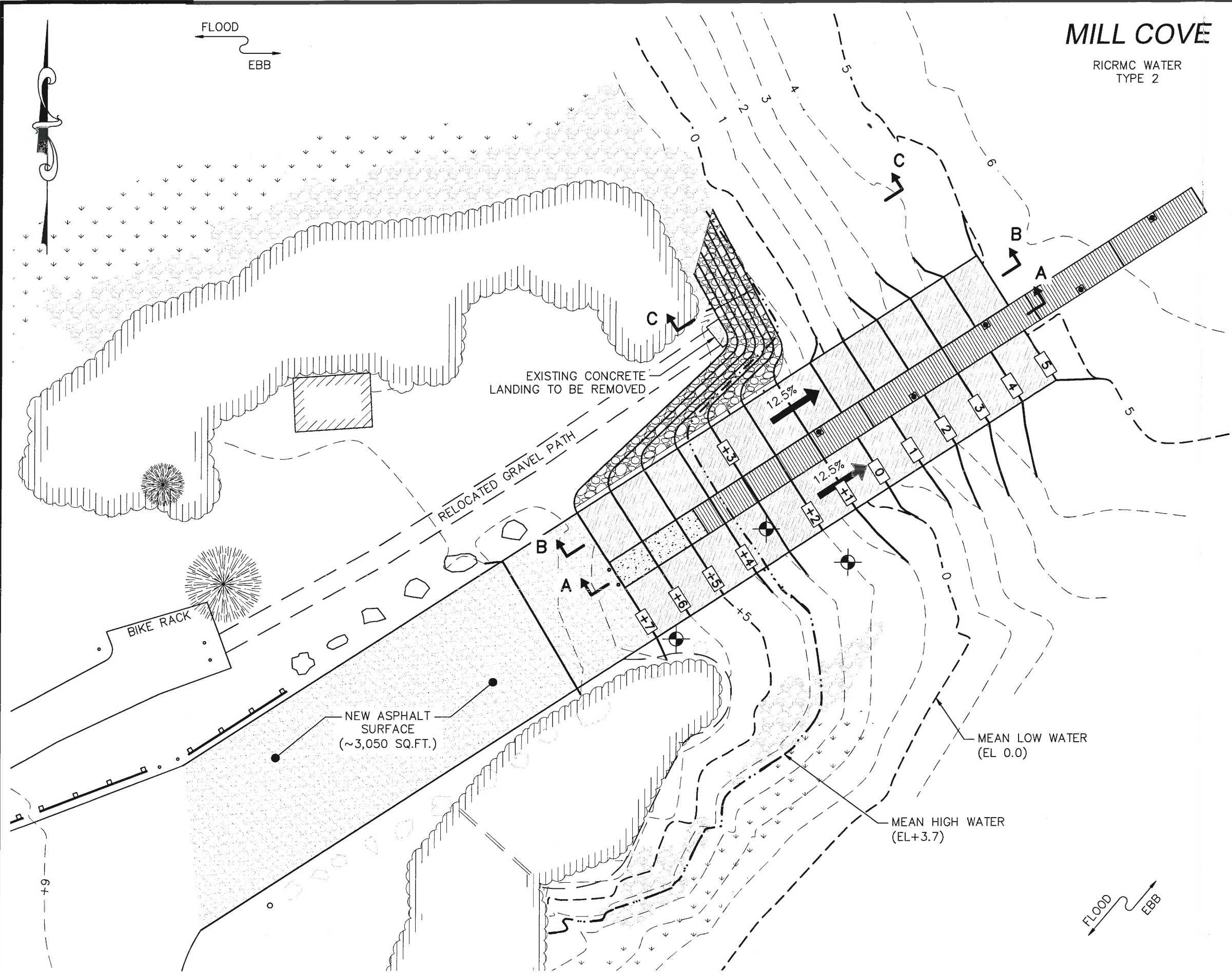
Issued for:  
**WILSON PARK BOAT RAMP IMPROVEMENTS  
REGULATORY REVIEW  
NOT FOR CONSTRUCTION**

Drawing Title:  
**BOAT RAMP SITE PLAN  
PROPOSED CONDITIONS  
(MEAN LOW WATER DATUM)**

**AUGUST J. KREUZKAMP, III**  
No. 949  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL 2/16/2023

Date:	2/16/2023
Scale:	1" = 20 FT
Designed By:	AJK
Drawn by:	AJK
Checked by:	
Project Number:	2022-10
Sheet:	5 of 27
Drawing Number:	PR-1

COASTAL RESOURCES MANAGEMENT COUNCIL



# MILL COVE

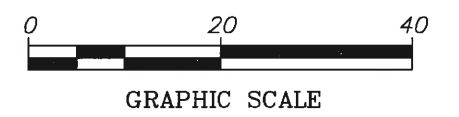
RICRMC WATER  
TYPE 2



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No.	Revision	Date	App.
1	REVETMENT GRADING ALTERED PER CRMC	1/27/23	



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Issued for:  
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REGULATORY REVIEW  
NOT FOR CONSTRUCTION

Drawing Title:  
**GRADING PLAN**  
PROPOSED CONDITIONS  
(MEAN LOW WATER DATUM)

	Date:	2/16/2023
	Scale:	1" = 20 FT
	Designed By:	AJK
	Drawn by:	AJK
	Checked by:	
Project Number:	2022-10	
Sheet	6 of 7	
Drawing Number:	PR-2 FEB 2023	

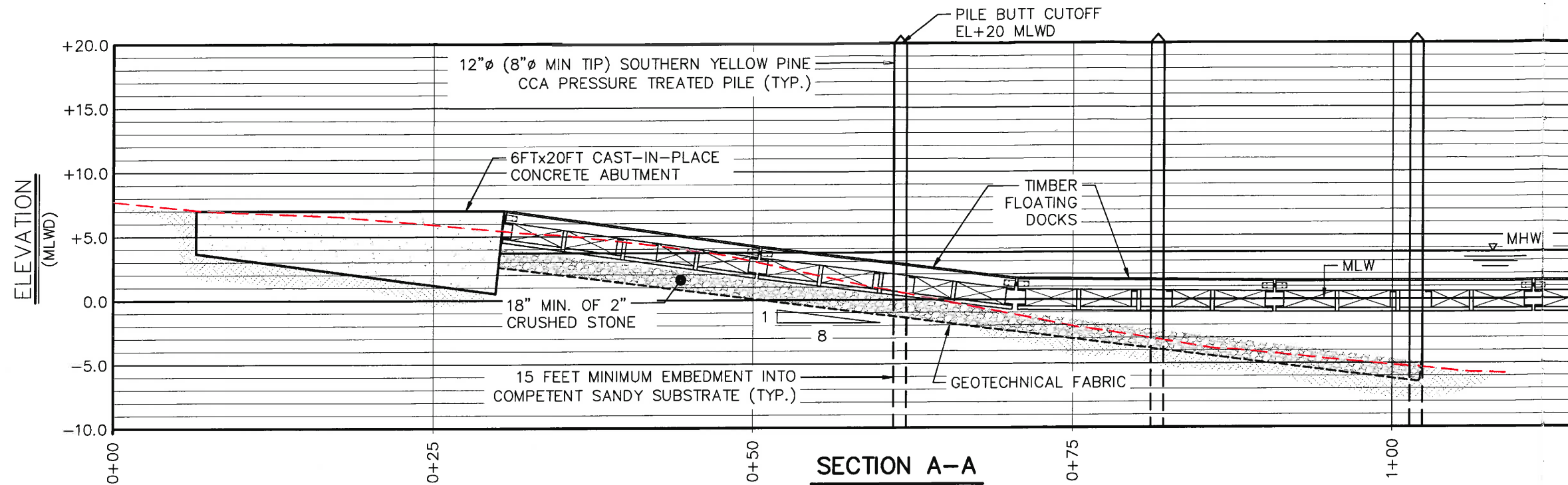
COASTAL RESOURCES MANAGEMENT CONSULTING



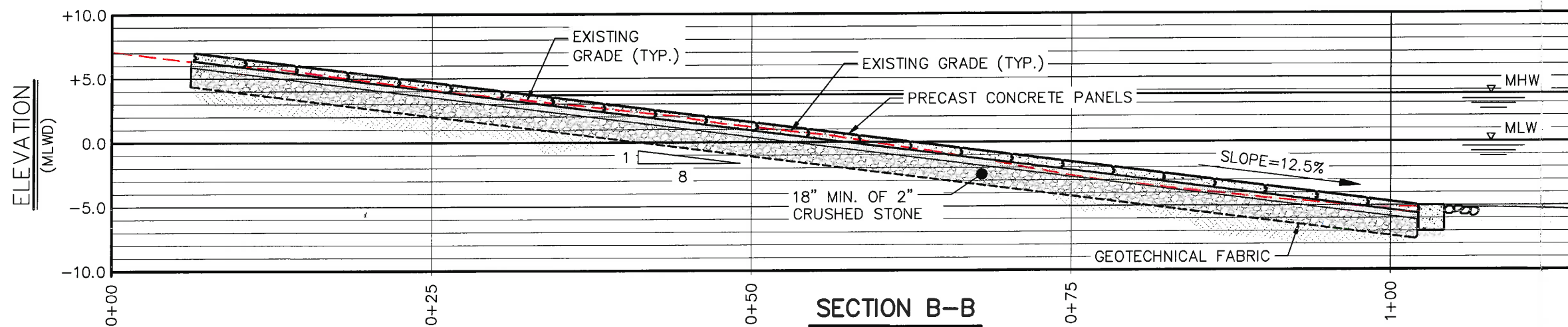


**HARBOR ENGINEERING, LLC**

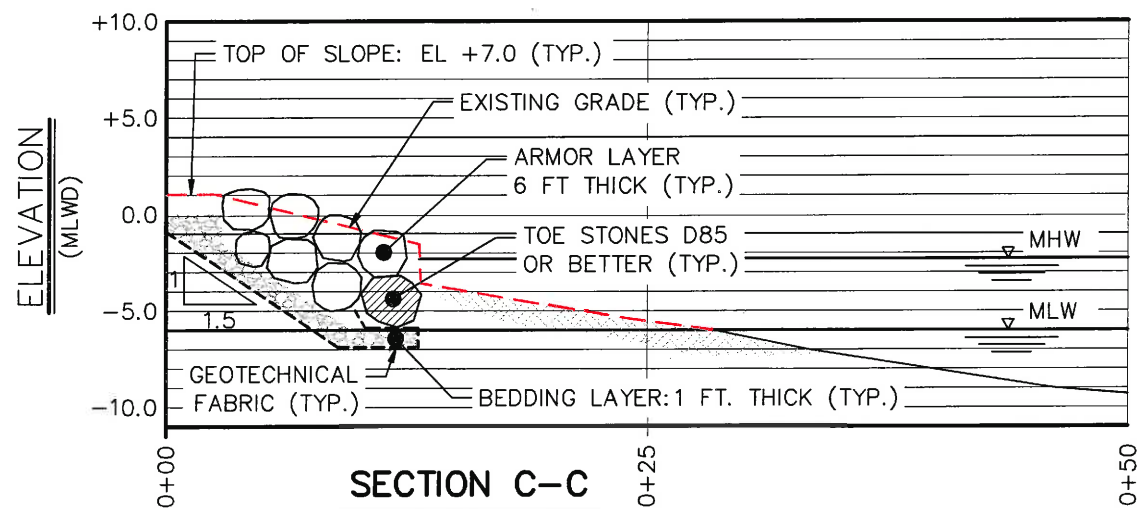
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harboreng.com



**SECTION A-A**

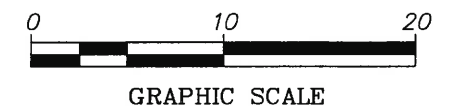


**SECTION B-B**



**SECTION C-C**

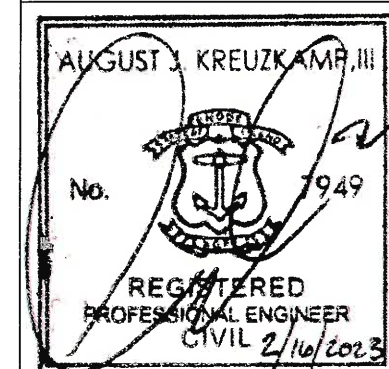
ARMOR LAYER			BEDDING LAYER	
% LESS BY WEIGHT	WEIGHT (TONS.)	DIAM. (FT.)	% LESS BY WEIGHT	DIAM. (IN.)
0 (MIN)	0.3	1.5	0 (MIN)	2
15	0.8	2.1	15	3
50	1.9	2.9	50	4
85	3.7	3.6	85	6
100 (MAX)	7.6	4.5	100 (MAX)	7



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REGULATORY REVIEW  
NOT FOR CONSTRUCTION**

Drawing Title:  
**CROSS SECTIONS  
BOAT RAMP & ARMOR STONE SLOPE  
(MEAN LOW WATER DATUM)**



Date: 2/16/2023  
Scale: 1" = 10 FT  
Designed By: AJK  
Drawn by: AJK  
Checked by:  
Project Number: 2022-10  
Sheet of 7  
Drawing Number: X-1