



# PLANS FOR RUTGERS UNIVERSITY MARINE FIELD STATION CHANNEL DREDGING

TOWNSHIP OF LITTLE EGG HARBOR  
OCEAN COUNTY, NEW JERSEY  
RUMS-00002

## RUTGERS UNIVERSITY MARINE FIELD STATION

CONTACT INFORMATION: ROLAND HAGAN  
800 C/O 132 GREAT BAY BOULEVARD  
TUCKERTON, NJ 08087  
PHONE: (609) 249-8803

## UTILITY OWNERS

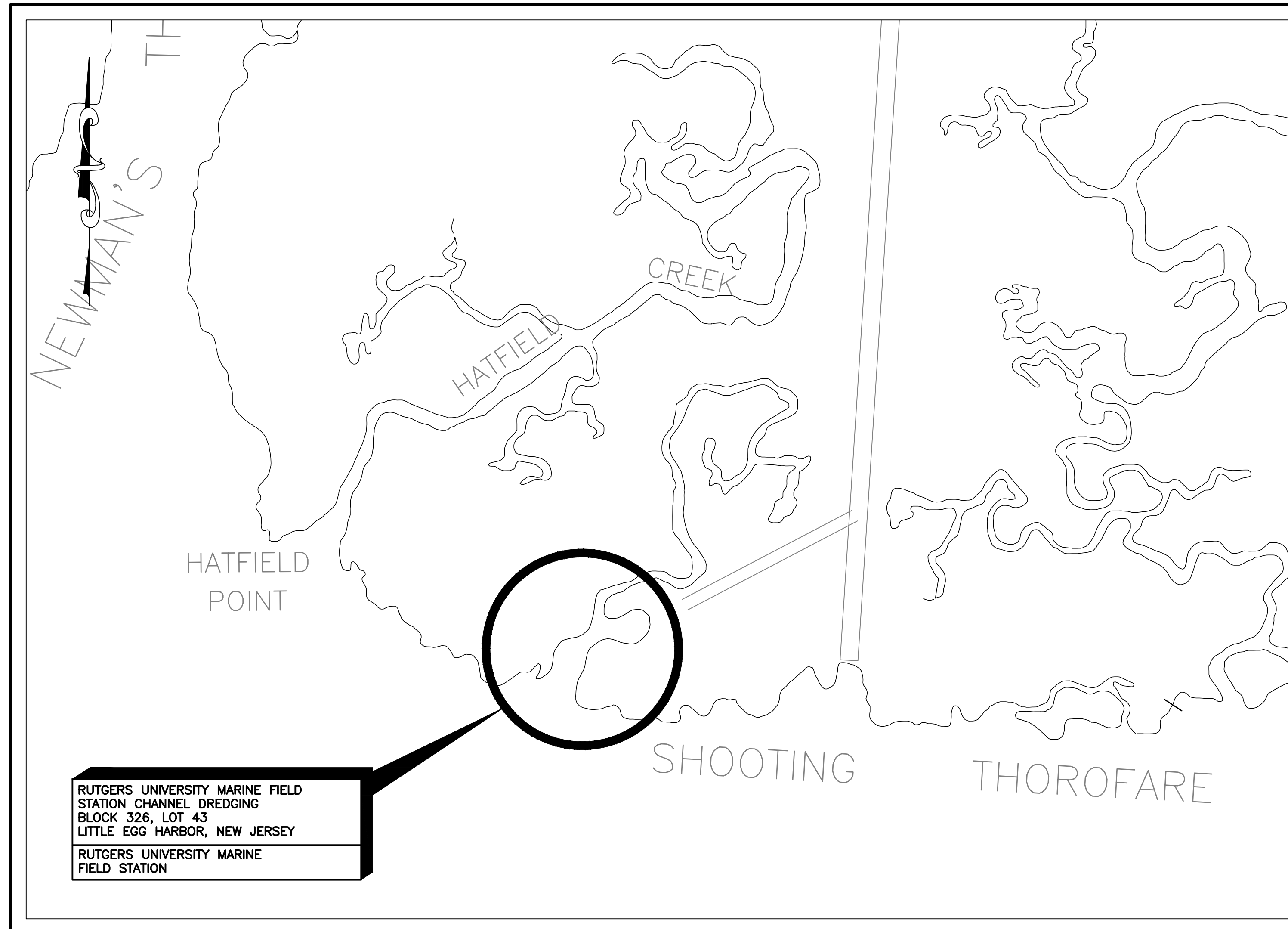
<b>ELECTRIC</b> ATLANTIC CITY ELECTRIC P.O. BOX 231 WILLMINGTON, DE 19899 (800) 833-7467 (EMERGENCY) (800) 642-3780 (CUSTOMER SERVICE)	<b>TELEPHONE</b> AT&T 175 WEST MAIN STREET FREEHOLD, NJ 07728 (732) 431-1275
<b>GAS</b> NEW JERSEY NATURAL GAS 775 VASSAR AVENUE LAKEWOOD, NJ 08701 (800) 427-5325 (GAS LEAK) (800) 221-0051 (CUSTOMER SERVICE)	<b>TELEPHONE</b> VERIZON 5100 BELMAR BOULEVARD FARMINGDALE, NJ 07727 (800) 427-9977
<b>CABLE</b> COMCAST 751 BRICK BOULEVARD BRICK, NJ 08723 (732) 920-2288 (CUSTOMER SERVICE)	<b>WATER &amp; SEWER</b> LITTLE EGG HARBOR MUNICIPAL UTILITIES AUTHORITY 823 RADIO ROAD LITTLE EGG HARBOR, NJ 08087 (609) 296-1168 (MAIN OFFICE) (609) 296-7606 (SERVICE)

LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND OTHER APPLICABLE LAWS.

PRIOR TO DIGGING CALL 1-800-272-1000



Know what's below.  
Call before you dig.

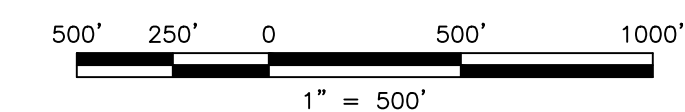


RUTGERS UNIVERSITY MARINE FIELD  
STATION CHANNEL DREDGING  
BLOCK 326, LOT 43  
LITTLE EGG HARBOR, NEW JERSEY  
RUTGERS UNIVERSITY MARINE  
FIELD STATION

## SHEET INDEX

SHEET	DESCRIPTION	DRAWING
1	COVER SHEET	CVR-1
2	CHANNEL DREDGE PLAN	DRP-1
3	CENTERLINE PROFILE	PRF-1
4	CROSS SECTIONS	CSX-1
5	CONSTRUCTION DETAILS	DET-1

KEY MAP



PREPARED BY  
**RAYMOND W. SAVACOO, P.E.**  
CONSULTING ENGINEER



1144 HOOPER AVENUE, SUITE 202  
TOWNS RIVER, NJ 08753  
TEL 732-473-3400  
FAX 732-473-3408

NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS  
AND LAND SURVEYORS  
CERTIFICATE OF AUTHORIZATION 24GA2787500



DATUM INFORMATION

TIDAL DATUMS DETERMINED BY NJDEP BUREAU OF COASTAL ENGINEERING USING NOAA VDATUM 3.4 SOFTWARE. ALSO USED AS A REFERENCE WAS TIDAL DATUM 853-4319 GREAT BAY, SHOOTING THOROFARE, NJ BENCHMARK CONTROL STATION 853-4720 ATLANTIC CITY, NJ.

DATUM	MLLW	NAVD 88
HTL	3.51	1.68
MHHWL	3.33	1.50
MHWL	3.00	1.17
NAVD 88	1.83	0.00
MTL	1.57	-0.26
MLWL	0.14	-1.69
MLLWL	0.00	-1.83

GENERAL NOTES:

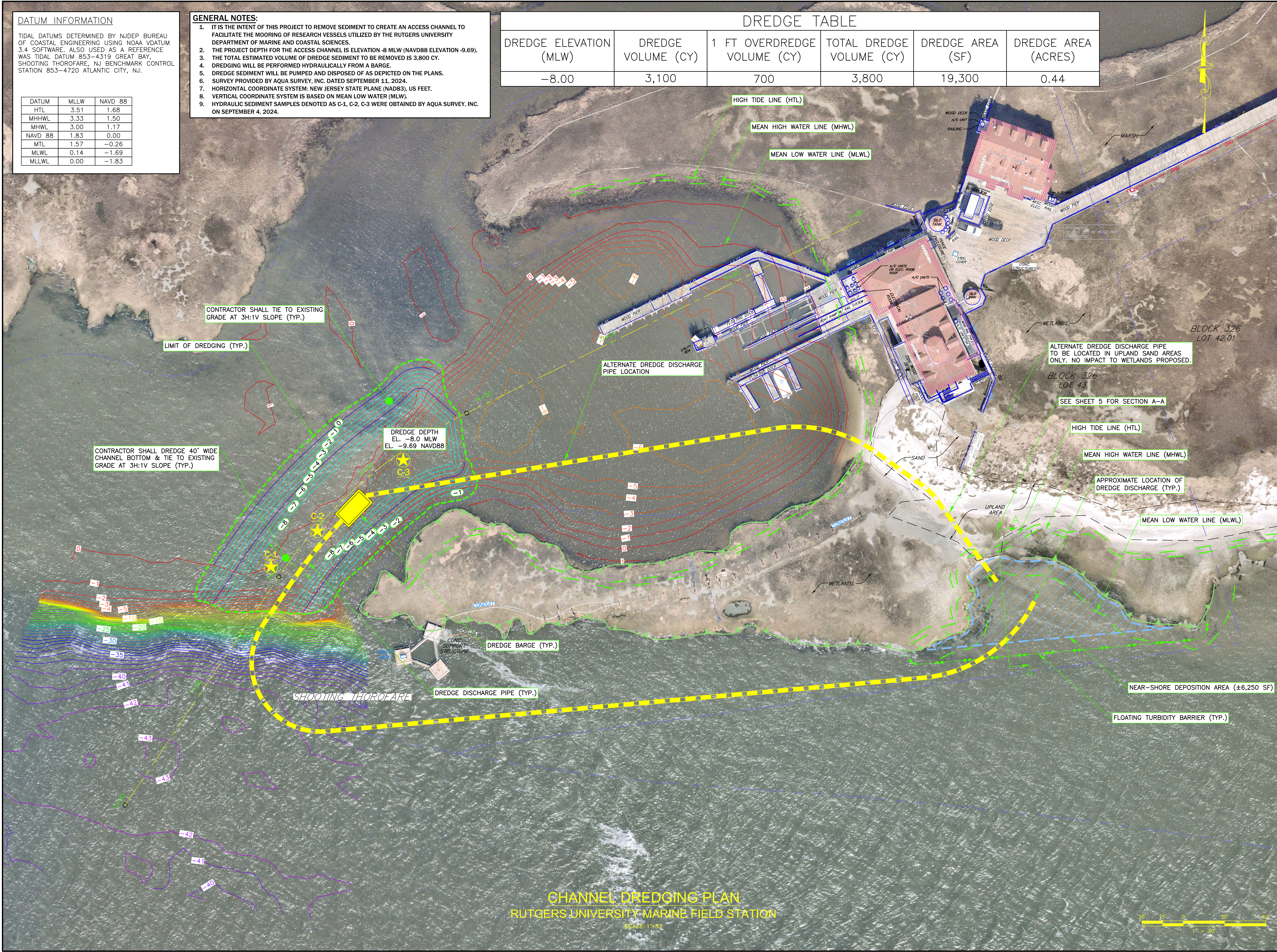
- IT IS THE INTENT OF THIS PROJECT TO REMOVE SEDIMENT TO CREATE AN ACCESS CHANNEL TO FACILITATE THE MOORING OF RESEARCH VESSELS UTILIZED BY THE RUTGERS UNIVERSITY DEPARTMENT OF MARINE AND COASTAL SCIENCES.
- THE PROJECT DEPTH FOR THE ACCESS CHANNEL IS ELEVATION -8 MLW (NAVD88 ELEVATION -9.69).
- THE TOTAL ESTIMATED VOLUME OF DREDGE SEDIMENT TO BE REMOVED IS 3,800 CY.
- DREDGING WILL BE PERFORMED HYDRAULICALLY FROM A BARGE.
- DREDGE SEDIMENT WILL BE PUMPED AND DISPOSED OF AS DEPICTED ON THE PLANS.
- SURVEY PROVIDED BY AQUA SURVEY, INC. DATED SEPTEMBER 11, 2024.
- HORIZONTAL COORDINATE SYSTEM: NEW JERSEY STATE PLANE (NAD83), US FEET.
- VERTICAL COORDINATE SYSTEM IS BASED ON MEAN LOW WATER (MLW).
- HYDRAULIC SEDIMENT SAMPLES DENOTED AS C-1, C-2, C-3 WERE OBTAINED BY AQUA SURVEY, INC. ON SEPTEMBER 4, 2024.

DREDGE TABLE

DREDGE ELEVATION (MLW)	DREDGE VOLUME (CY)	1 FT OVERDREDGE VOLUME (CY)	TOTAL DREDGE VOLUME (CY)	DREDGE AREA (SF)	DREDGE AREA (ACRES)
-8.00	3,100	700	3,800	19,300	0.44

PROJECT INFORMATION:  
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FILE NAME: RUMS-00002-CHANNEL DREDGE PLAN.dwg  
DATE: 03 Jan 2025, 2:04PM  
LAST SAVE BY: SMD/ing

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RAYMOND W. SAVACOO, P.E.  
CONSULTING ENGINEER

1/3/2025  
LICENSED PROFESSIONAL ENGINEER  
STATE OF NJ LICENSE No. GE035318

RUTGERS UNIVERSITY MARINE & COASTAL SCIENCES  
RUTGERS UNIVERSITY MARINE FIELD STATION  
CHANNEL DREDGING  
TOWNSHIP OF LITTLE EGGS HARBOR, OCEAN COUNTY, NEW JERSEY

BLOCK 326, LOT 43  
CHANNEL DREDGE PLAN

**AND**  
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OHIO AND PENNSYLVANIA

DESIGNED BY	SPM	DRAWING	DRP-1
CHECKED BY	RWS	DRAWN BY	SPM
DATE	12/9/2024	SCALE	1"=30'
PROJ. NO.	RUMS-00002	SHEET	2
		OF	5



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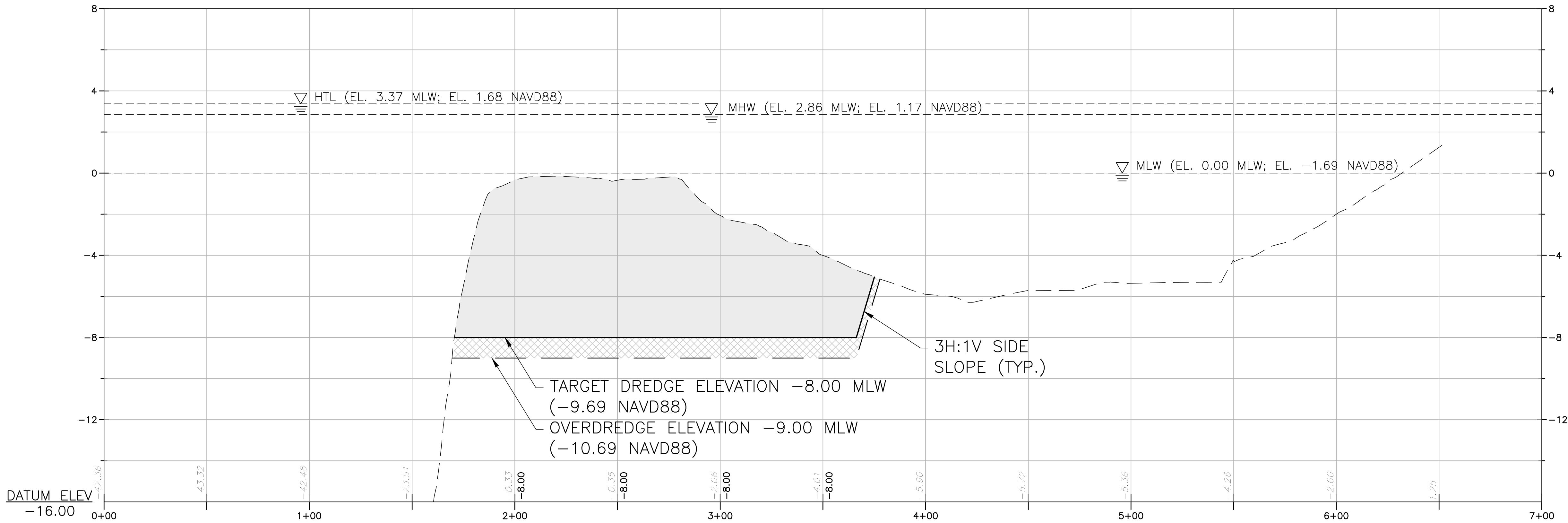
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PROFILE LEGEND

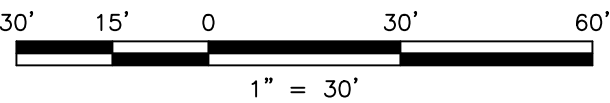
- TIDAL ELEVATIONS (EL. X.XX)
- EXISTING SURFACE ELEVATION
- PROPOSED SURFACE ELEVATION
- SEDIMENT/MATERIAL TO BE REMOVED

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CENTERLINE PROFILE  
RUTGERS UNIVERSITY MARINE FIELD STATION  
SCALE: 1"=30' (HORIZ.)  
SCALE: 1"=3' (VERT.)



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1/3/2025  
LICENSED PROFESSIONAL ENGINEER  
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RUTGERS UNIVERSITY MARINE FIELD STATION  
CHANNEL DREDGING  
TOWNSHIP OF LITTLE EGG HARBOR, OCEAN COUNTY, NEW JERSEY  
BLOCK 326, LOT 43  
CENTERLINE PROFILE

**AND**  
YOUR GOALS. OUR MISSION.  
1144 HOOPER AVENUE, SUITE 202  
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TEL 732-473-3400  
FAX 732-473-3408  
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS  
AND LAND SURVEYORS  
CERTIFICATE OF AUTHORIZATION 240A27987503  
OFFICES LOCATED IN:  
CALIFORNIA, INDIANA, KENTUCKY,  
MASSACHUSETTS, MICHIGAN, NEW JERSEY,  
OHIO AND PENNSYLVANIA

DESIGNED BY	SPM	DRAWING	PRF-1
CHECKED BY	RWS		
DRAWN BY	SPM	SHEET	3
DATE	12/9/2024		
SCALE	1"=30'		
PROJ. NO.	RUMS-00002	OF	5

PROJECT INFORMATION:  
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FILE NAME: RUMS-00002\_CHANNEL DREDGE PRF & CSX.dwg  
DATE PLOTTED: 12/9/2024 2:56PM  
LAST SAVE BY: Smadrog

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CROSS SECTION LEGEND

- ▽-----

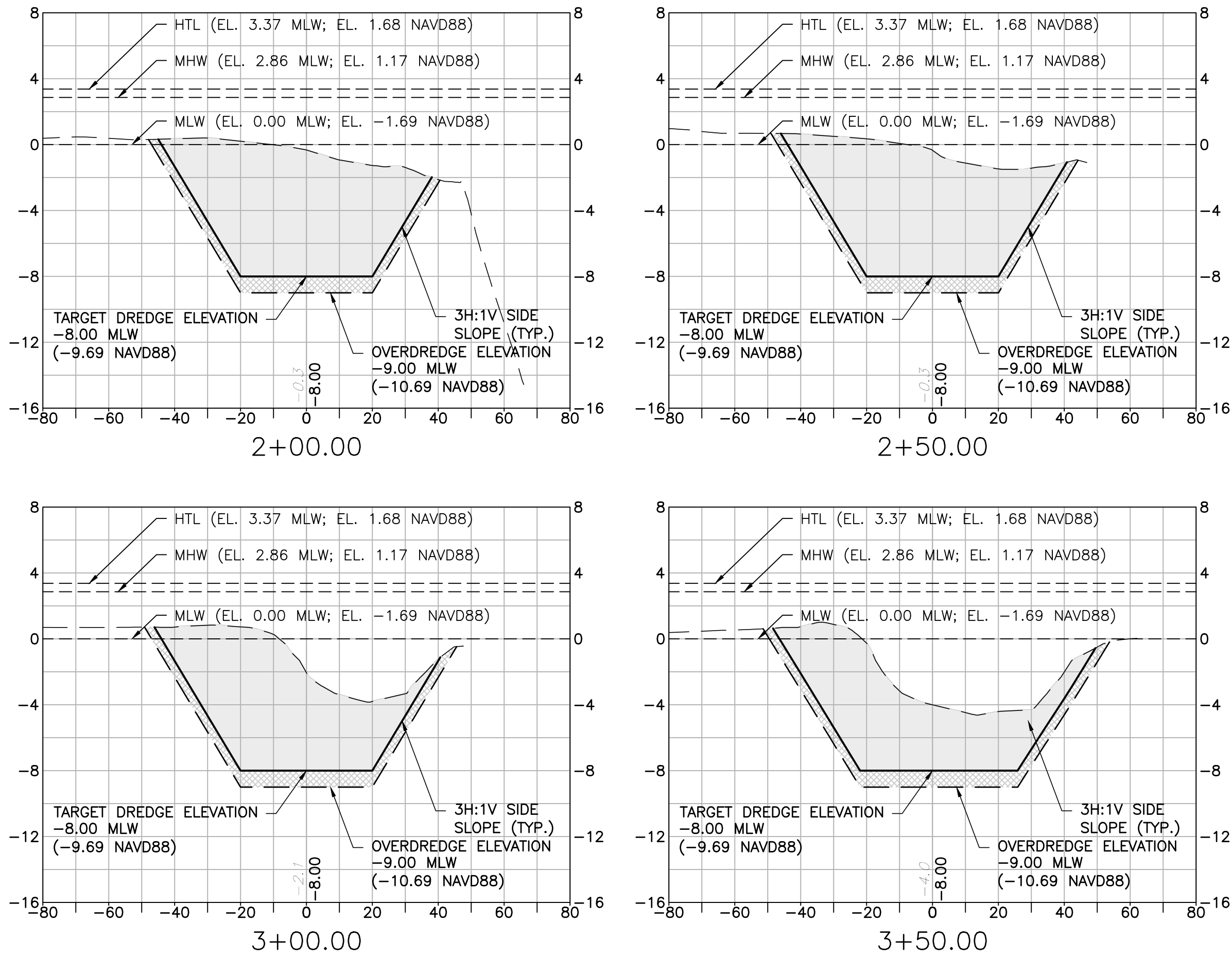
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CROSS SECTIONS

RUTGERS UNIVERSITY MARINE FIELD STATION

SCALE: 1"=30' (HORIZ.)

SCALE: 1"=6' (VERT.)

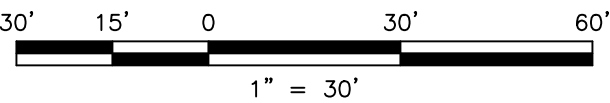
RAYMOND W. SAVACOO, P.E.  
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1/3/2025  
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DESIGNED BY	SPM	DRAWING	CSX-1
CHECKED BY	RWS	DRAWN BY	SPM
DATE	12/9/2024	SHEET	4
SCALE	1"=30'	PROJ. NO.	RUMS-00002
OF	5		



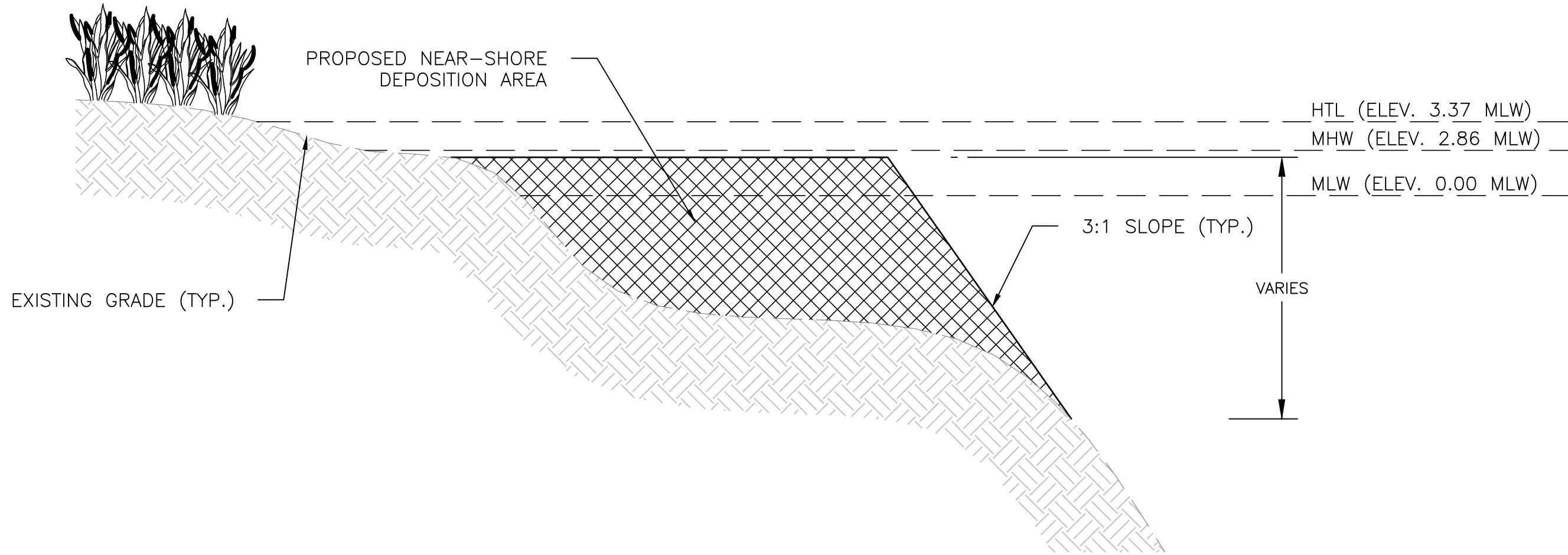
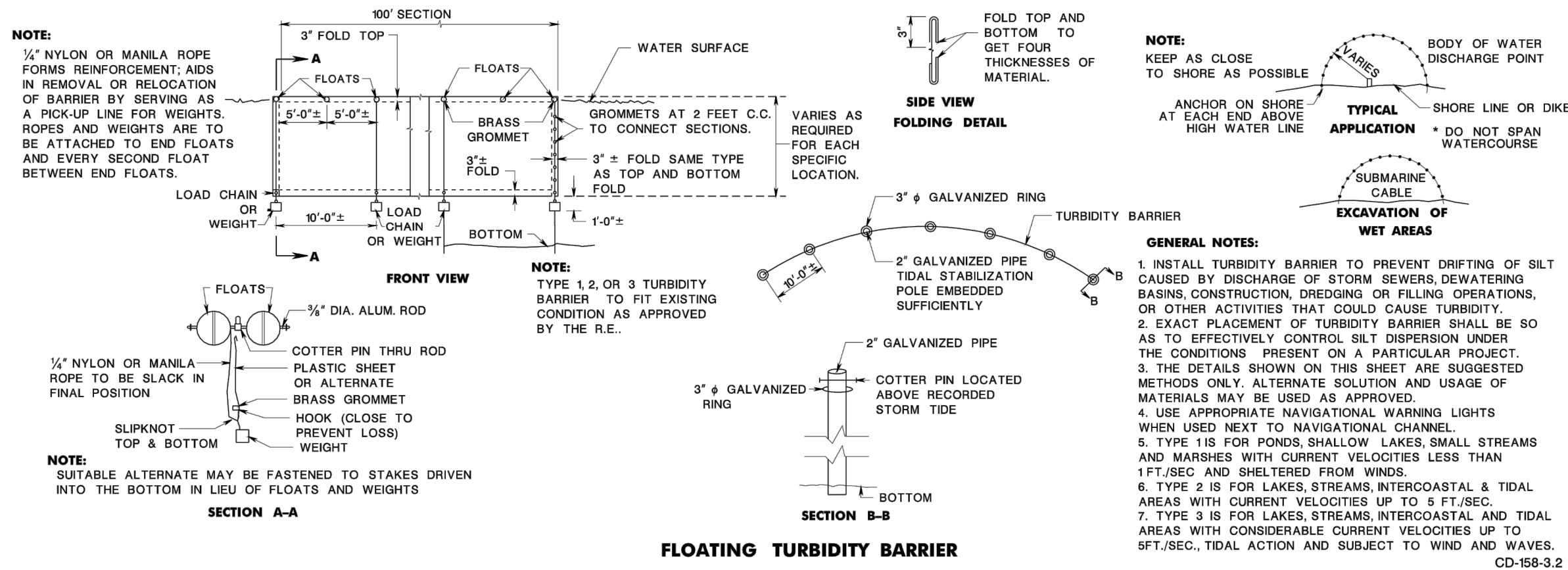
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FILE NAME: RUMS-00002\_DTL.dwg  
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**NEAR SHORE DEPOSITION**  
**SECTION A-A**  
NOT TO SCALE

NO.	DATE	REV.	PER	USACOE	COMMENTS	SPM	RWS	BY	CHKD
1	12/19/24								

**RAYMOND W. SAVACOO, P.E.**  
CONSULTING ENGINEER

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CONSTRUCTION DETAILS



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DRAWN BY	SPM	OF	5
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