
State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879
(401)783-3370

State of Rhode Island
Department of Environmental Management
Office of Technical and Customer Asst.
235 Promenade Street
Providence, RI 02908-5767
(401)222-6822

JOINT PUBLIC RE-NOTICE

CRMC File No.: 2022-11-010

Date: August 8, 2023

RIDEM Water Quality Certification Number: WQC 22-245 / DP 22-195

These offices have under consideration the application of:

Watch Hill Yacht Club
1 Fort Road
Westerly, RI 02891

for State of Rhode Island Assent (in accordance with the Coastal Resources Management Program), and State of Rhode Island Water Quality Certification (in accordance with Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the RIGL, as amended).

The project will include: A dredge permit to dredge the areas near the existing bulkhead. The project is estimated to remove approximately 765 cubic yards of sediment. The dredging activity will occur on the west side of the club building in an area of approximately 12,200 square feet and on the east side for approximately 4,200 square feet. The material has been tested and is acceptable for reuse on the nearby Watch Hill Beach.

Project Location: Within the Watch Hill Yacht Club MPL, near the exiting bulkhead

Street & Number: 1 Fort Road/151 Bay Street

City/Town: Westerly

Plat Number: 185 Lot Number: 31-1

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter. You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

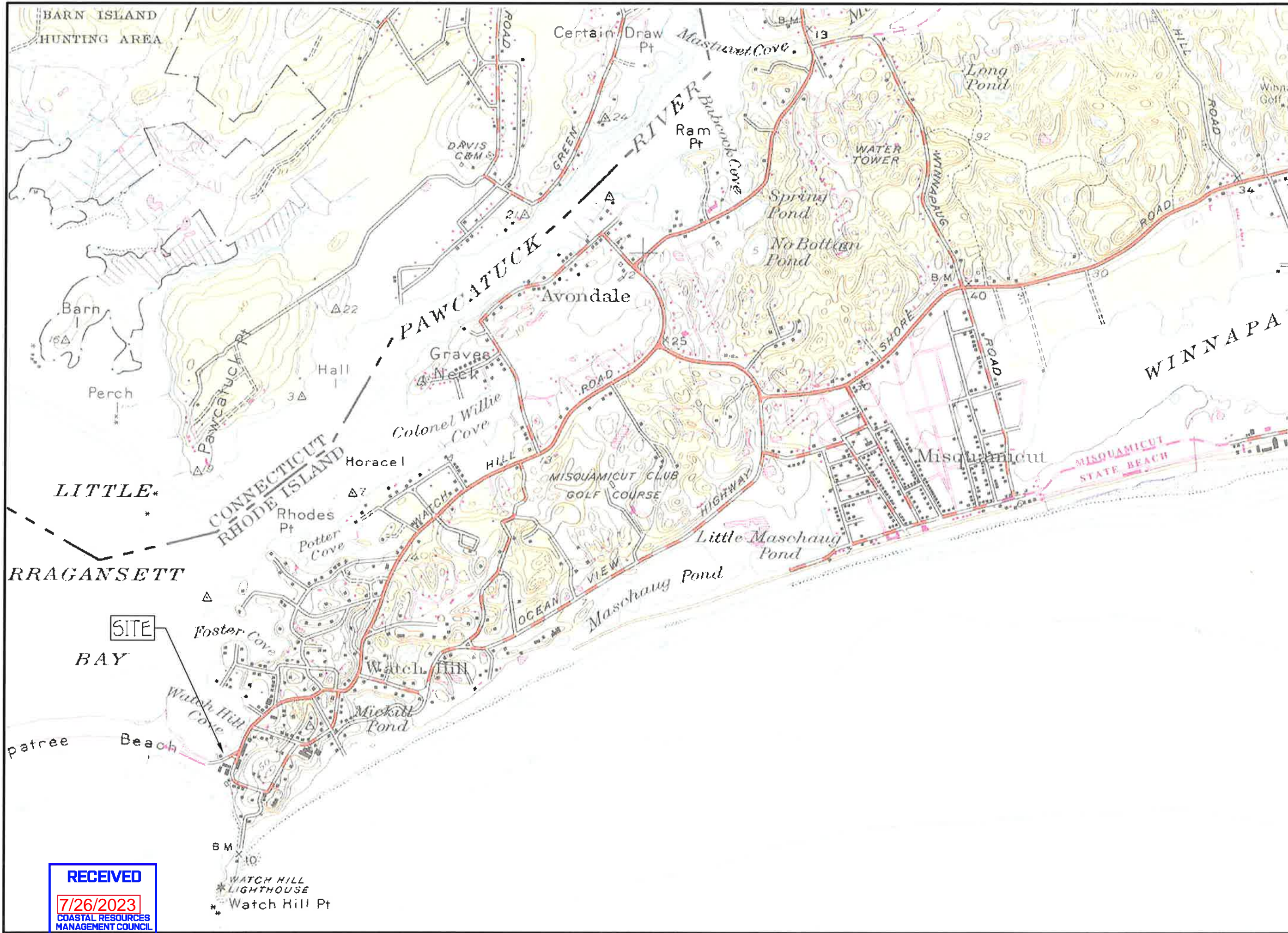
RICRMC/RIDEM Joint Public Notice
CRMC File No. 2022-11-010
August 8, 2023
Page Two

This also serves as notice that the Rhode Island Department of Environmental Management, Office of Water Resources, Water Quality Certification Program has under consideration and review the same proposed activity as described above for compliance with the State's Water Quality Regulations (AUTHORITY: in accordance with Clean Water Act, as amended (33 U.S.C. 1251 et.seq.; Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the Rhode Island General Laws of 1956, as amended).

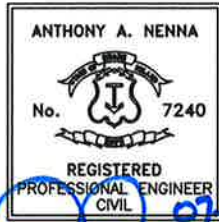
If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing and be received at this office on or before **September 8, 2023**. Please provide comments via email at cstaff1@crmc.ri.gov or via USPS to Coastal Resources Management Council, O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

It is expected that objectors will review the application and associates plans thoroughly. Comments that pertain to this Joint Notice must be submitted in writing and must be addressed to Rhode Island Coastal Resources Management Council and Rhode Island Department of Environmental Management at the above referenced addresses.

/lat



i-Site Engineering, Inc.
Civil & Environmental Engineering
3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831



PROJECT:
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
SITE LOCATION
MAP

REVISIONS		
No.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=1,500'

SHT. 1
OF 11

RECEIVED

7/26/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL

5.5 +	EXISTING SPOT ELEVATION/SOUNDING	—W—W—	PROPOSED WATER SERVICE
- - - -5- - - -	EXISTING CONTOUR	—UE—UE—	PROPOSED UNDERGROUND ELECTRICAL
	EDGE OF POND		PROPOSED CONTOUR
CF-A	COASTAL FEATURE FLAG		
	WETLAND BUFFER (50 FT.)	DIAM.	DIAMETER
	EXISTING TREE LINE	TYP.	TYPICAL
	PROPERTY LINE	P.T.	PRESSURE TREATED
- - -W- - -	EXISTING WATER MAIN	BIT. CONC.	BITUMINOUS CONCRETE
	WELL	CONC.	CONCRETE
		F/FLR.	FINISHED FLOOR
		T.O.F.	TOP OF FOUNDATION
		MLW	MEAN LOW WATER
		MHW	MEAN HIGH WATER

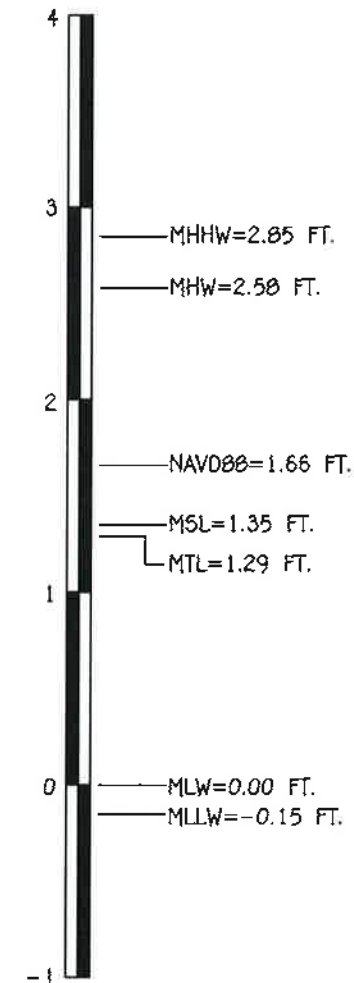
PROJECT DESCRIPTION

THE SUBJECT PROPERTY IS LOCATED AT 151 BAY STREET IN THE TOWN OF WESTERLY, RHODE ISLAND AND IS PART OF AN EXISTING OPERATIONAL MARINA KNOWN AS THE WATCH HILL YACHT CLUB. THE MARINA IS LOCATED WITHIN WATCH HILL COVE. THE PROPOSED SITE IMPROVEMENTS INCLUDE DREDGING APPROXIMATELY 16,400 S.F. IN ORDER TO REMOVE SAND THAT HAS COLLECTED BETWEEN THE EXISTING BUILDING AND THE EXISTING BULKHEAD. THE BUILD UP OF SEDIMENT IN THIS AREA HAS OCCURRED THROUGH PREVIOUS YEARS AND CAN BE ATTRIBUTED TO THE CURRENT WAVE ACTION AND TIDAL FLUCTUATIONS. THE DREDGING WILL OCCUR WITHIN THE APPROVED MARINA PERIMETER. THE FINAL ELEVATION AT THE COMPLETION OF DREDGING OPERATIONS WILL BE ELEVATION -3.0, ALLOWING BOATS TO BE DOCKED ON THE CLUB'S EXISTING FLOATING DOCKS. APPROXIMATELY 765 CY OF MARINE SEDIMENT WILL BE REMOVED AND TEMPORARILY STOCKPILED ON THE BEACH AREA CURRENTLY OWNED BY THE WATCH HILL FIRE DISTRICT. ONCE THE MATERIAL IS DE-WATERED, THE MATERIAL WILL BE SPREAD ON SITE WITHIN THE EXISTING BEACH AREA. DREDGING WILL BE CONDUCTED WITH A HYDRAULIC CLAM SHELL OR EXCAVATOR. THE EQUIPMENT WILL BE SETUP AT TWO LOCATIONS ON THE EXISTING PARKING LOT IN ORDER TO REACH THE TWO DREDGING AREAS. THE SEDIMENT WILL BE LOADED ONTO A RUBBER TRACK DUMP TRUCK AND HAULED THROUGH THE EXISTING PARKING LOT AND ONTO BAY STREET TO THE DUMP SITE, WHICH IS LOCATED ON AN EXISTING BEACH ADJACENT TO THE CARROUSEL.

CONSTRUCTION SEQUENCE

1. OBTAIN PLAN APPROVAL AND APPLICABLE PERMITS.
2. INSTALL SILT CURTAIN WITHIN DREDGING AREAS.
3. INSTALL TEMPORARY FENCING,
4. CONSTRUCTION EQUIPMENT MOBILIZATION.
5. START DREDGING. NOTE THAT DREDGING SHALL OCCUR BETWEEN OCTOBER 31ST AND JANUARY 31ST.
6. TRANSPORT AND STOCKPILE DREDGE SPOILS AS INDICATED ON THE PLANS.
7. ONCE DREDGE MATERIAL IS DRY SPREAD WITHIN EXISTING BEACH AREA.
8. FINALIZE DREDGING AND FINISH GRADING DREDGE SPOILS.

1. THE SUBJECT PROPERTY IS AN EXISTING OPERATIONAL MARINA LOCATED ON WATCH HILL COVE IN THE TOWN OF WESTERLY AT THE WATCH HILL YACHT CLUB LOCATED DIRECTLY OFF OF BAY STREET IN WATCH HILL.
2. THE PROPOSED PROJECT SCOPE CONSISTS OF DREDGING A PORTION OF THE COVE BOTTOM ADJACENT TO THE EXISTING CLUB BUILDING/DOCKS SO THAT BOATS HAVE ADEQUATE DEPTH AT LOW TIDE WHEN DOCKED ON THE EXISTING FLOATING DOCKS. THE DREDGE MATERIAL WILL BE SPREAD ON THE ADJACENT BEACH THAT IS CURRENTLY OWNED BY THE WATER HILL FIRE DISTRICT. APPROXIMATELY 765 C.Y OF MATERIAL WILL BE REMOVED FROM THE DREDGE AREA.
3. THE SUBJECT PROPERTY IS LOCATED ON WATCH HILL COVE PRIOR TO ENTERING LITTLE NARRAGANSETT BAY.
4. THE UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DIG-SAFE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
6. THE SUBJECT PROPERTY IS LOCATED IN ZONE V, ELEVATION 13, PER FEMA MAP NUMBER 44009C0261J DATED OCTOBER 16, 2013.
7. ELEVATION DAUTM IS NAVD88, MLW=0.



TIDAL DATUM
ELEVATION INFORMATION FOR
WATCH HILL POINT
STATION ID: 8458694



PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

Title

NOTES

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale.: None

SHT. 2
OF 11



RECEIVED
7/26/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL

n-Site Engineering, INC.
Civil & Environmental Engineering
3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

PROJECT:
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

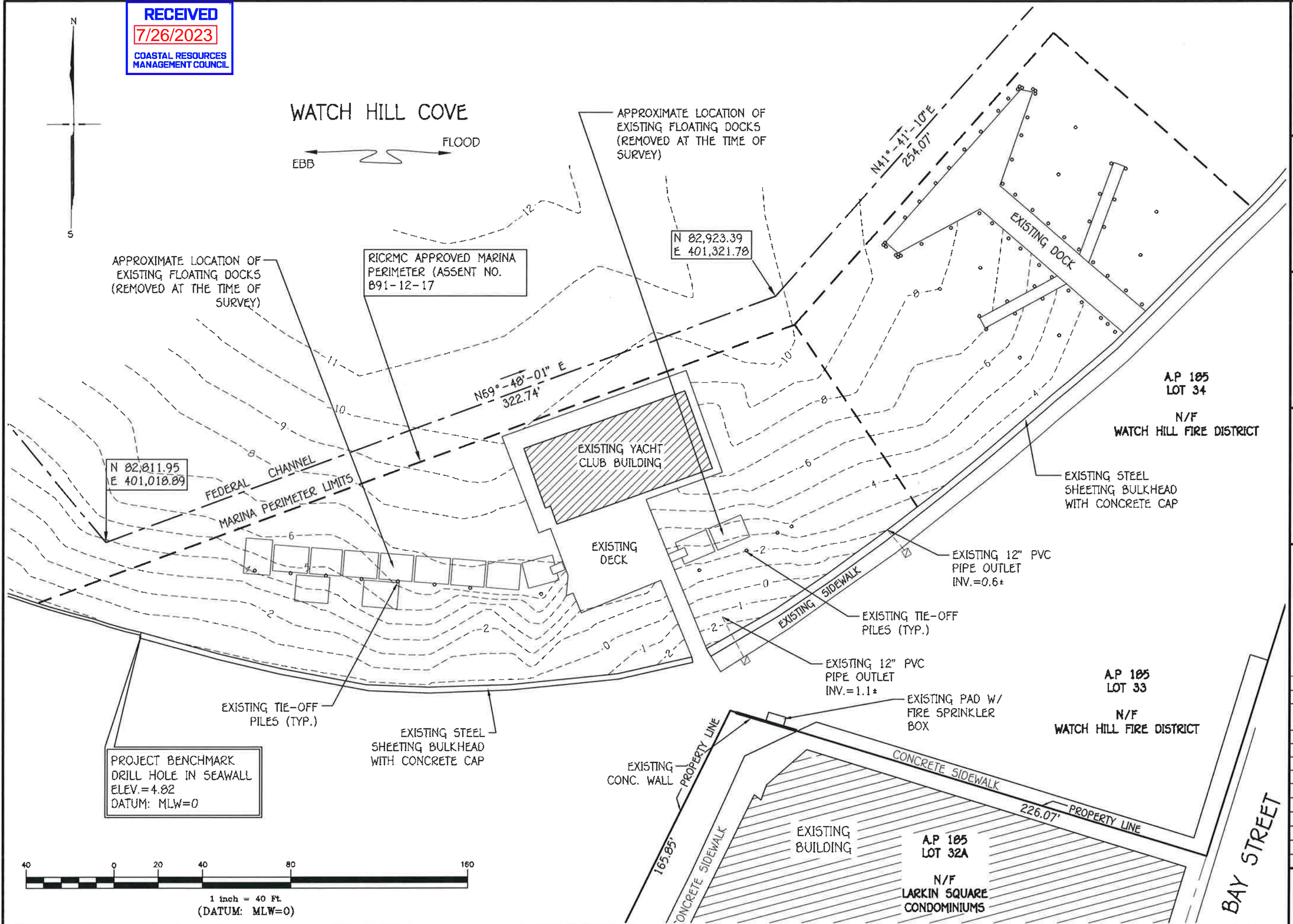
WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
EXISTING
CONDITIONS
PLAN

REVISIONS		
No.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=40'

SHT. 3
OF 11



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COASTAL RESOURCES
MANAGEMENT COUNCIL

On-Site Engineering, Inc.
Civil & Environmental Engineering
3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

PROPOSED
CONDITIONS
PLAN

REVISIONS

No.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06-16-23

DESIGNED BY: AAN

DRAWN BY: AAN

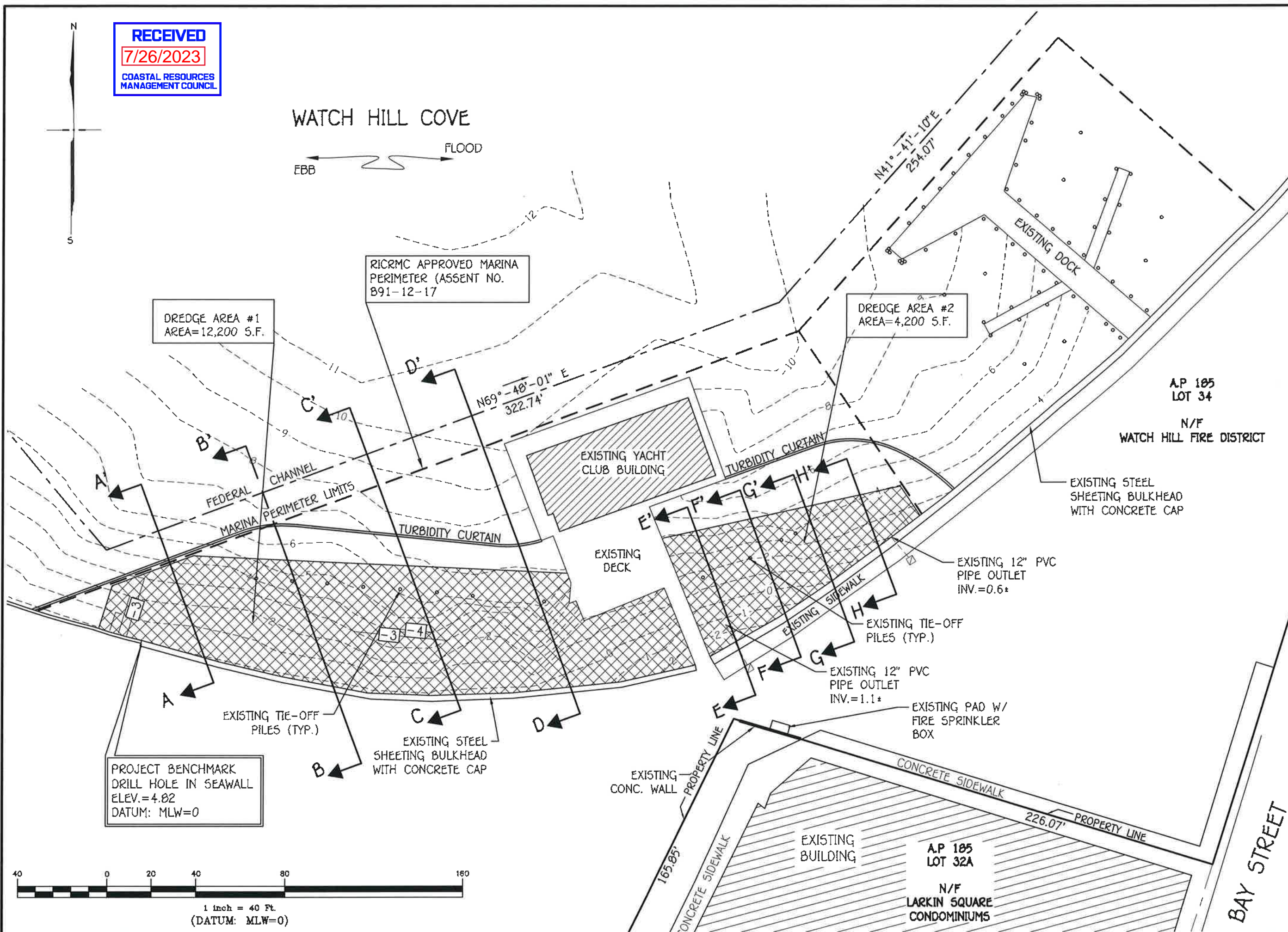
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

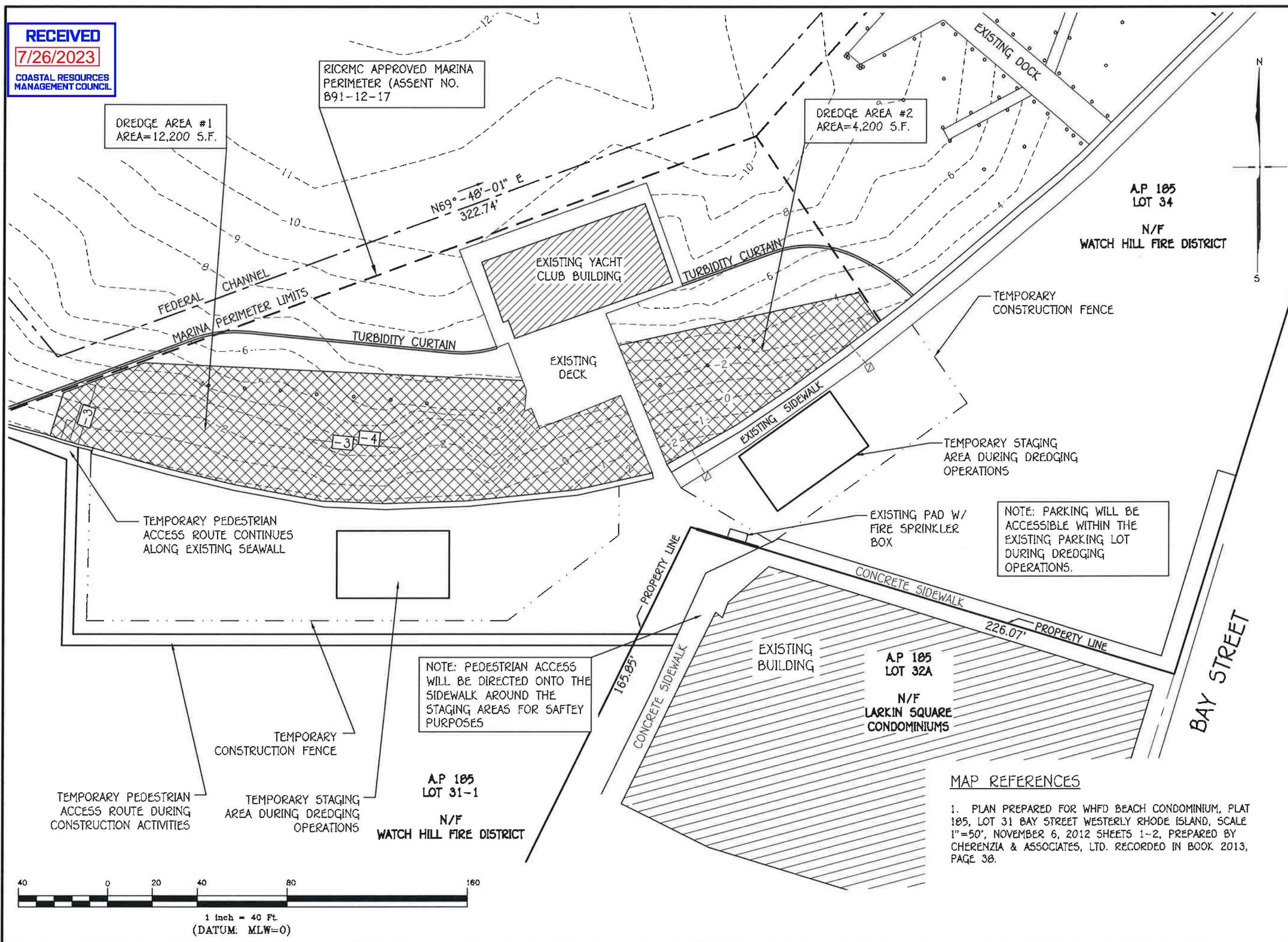
PROJECT No.: 22-003

Scale: 1"=40'

SHT. 4
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7/26/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL



On-Site Engineering, Inc.
Civil & Environmental Engineering
3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED
PROFESSIONAL ENGINEER
CIVIL
07-23-23

PROJECT:
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
EQUIPMENT
STAGING AREA
W/ TEMPORARY
PEDESTRIAN
ROUTE

REVISIONS		
No.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=40'

SHT. 5
OF 11

PROJECT:
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

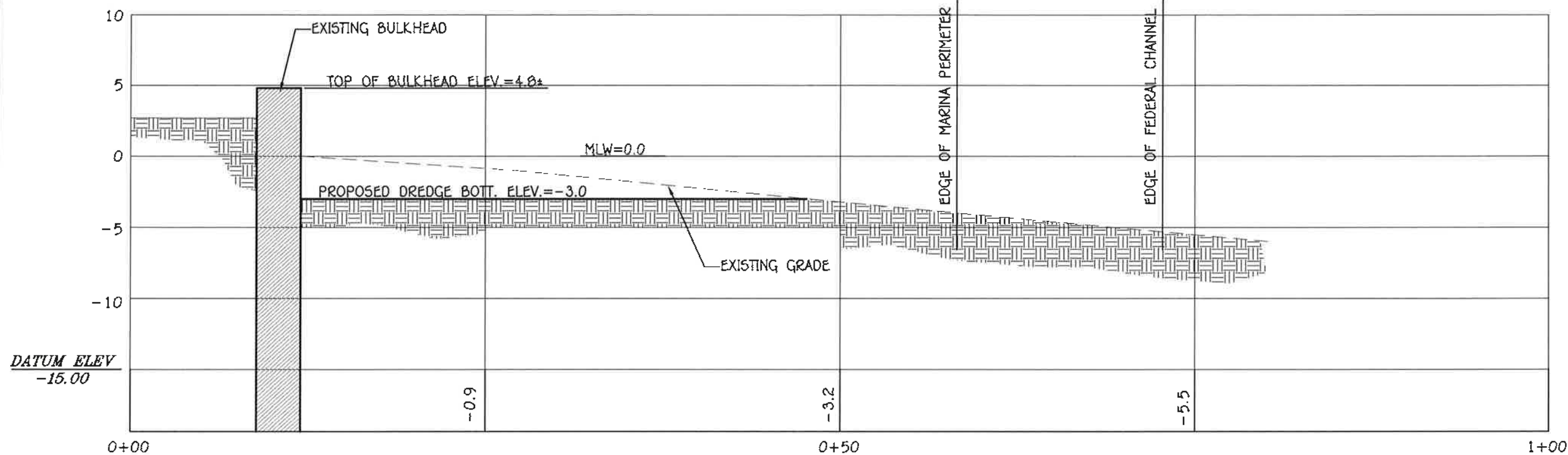
WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
CROSS
SECTIONS

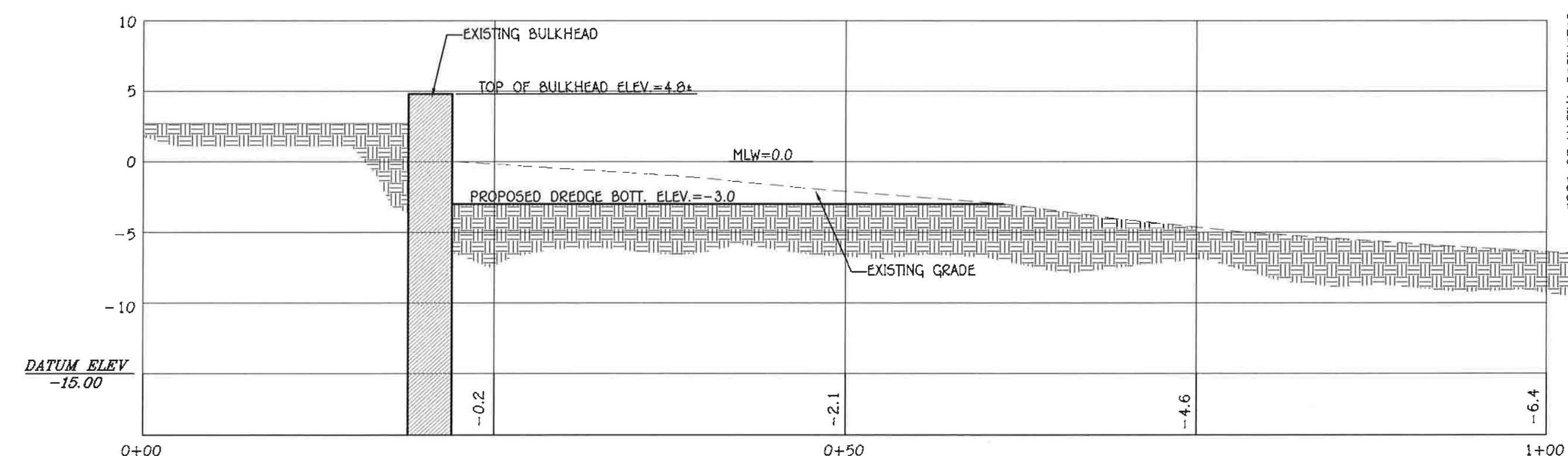
REVISIONS		
No.	DESCRIPTION	DATE
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DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: AS SHOWN

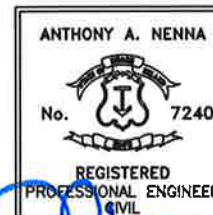
SHT. 6
OF 11



CROSS SECTION A-A'
SCALE: 1/8"=1'



CROSS SECTION B-B'
SCALE: 1/8"=1'



PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

CROSS
SECTIONS

REVISIONS

No.	DESCRIPTION	DATE
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DESIGNED BY: AAN

DRAWN BY: AAN

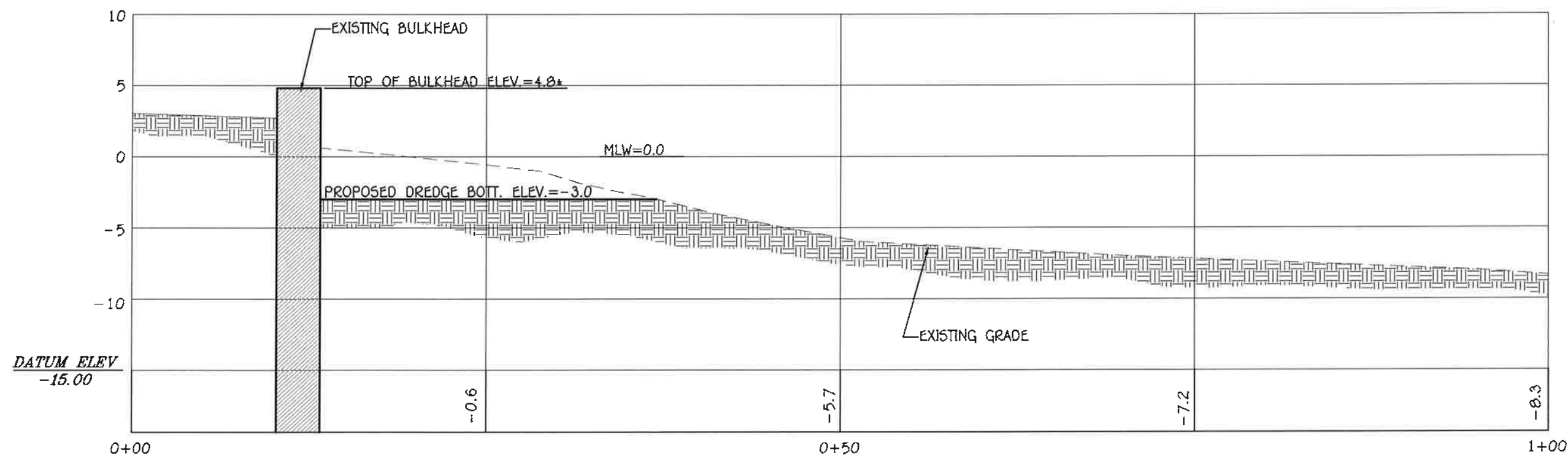
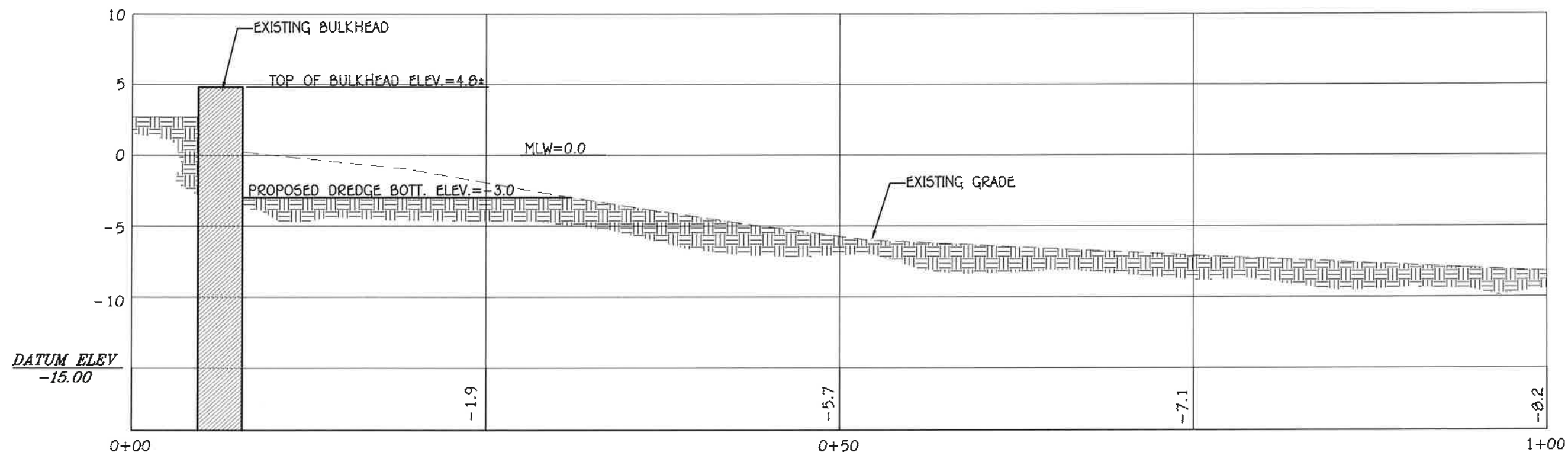
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

Scale: None

SHT. 7
OF 11



RECEIVED

7/26/2023

COASTAL RESOURCES
MANAGEMENT COUNCIL



PROJECT:
**MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB**

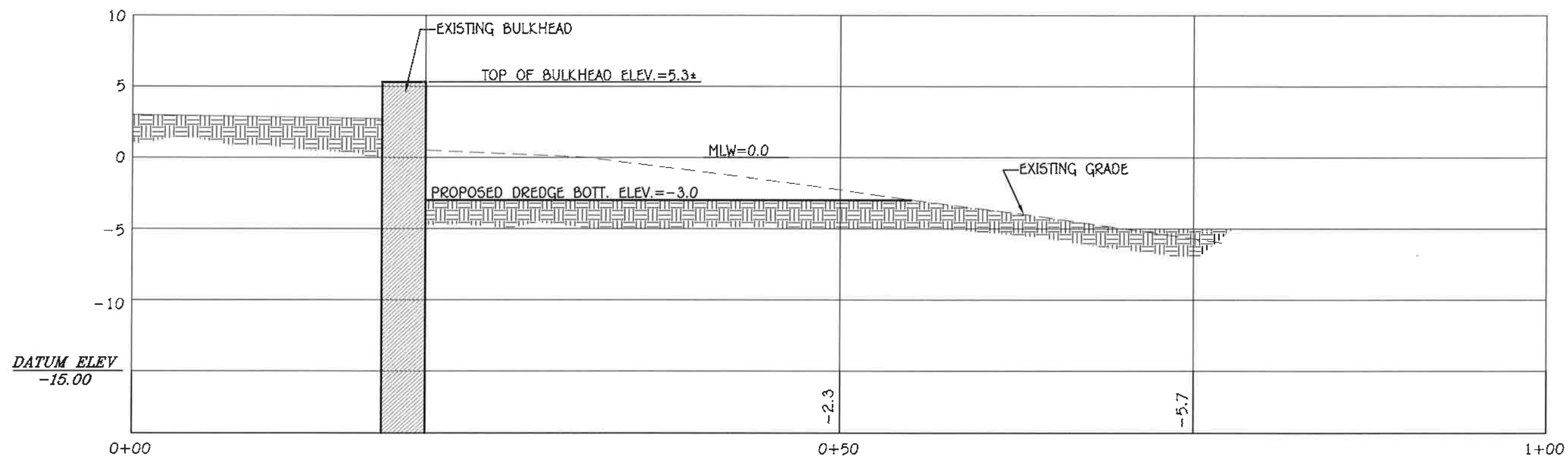
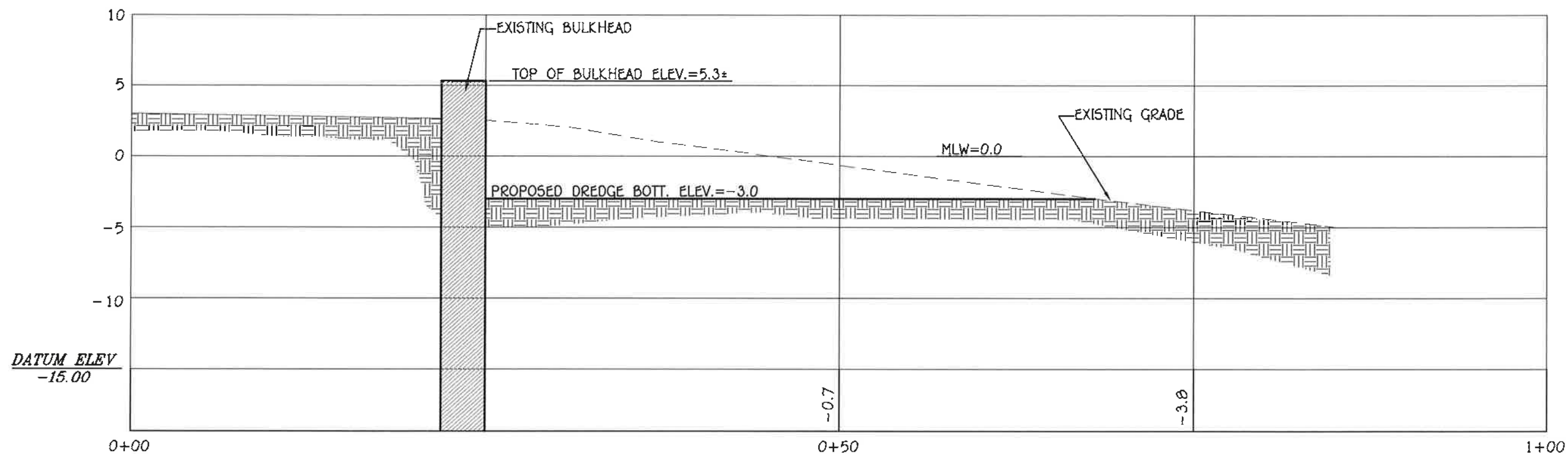
**WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1**

TITLE
**CROSS
SECTIONS**

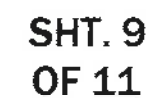
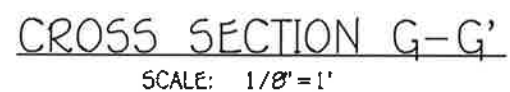
REVISIONS		
No.	DESCRIPTION	DATE
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DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: None

**SHT. 8
OF 11**



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7/26/2023
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MANAGEMENT COUNCIL



**COASTAL RESOURCES
MANAGEMENT COUNCIL**



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7/26/2023
COASTAL RESOURCES
MANAGEMENT COUNCIL



On-Site Engineering, INC.
Civil & Environmental Engineering
3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED PROFESSIONAL ENGINEER
CIVIL

PROJECT:
MAINTENANCE DREDGE AT THE WATCH HILL YACHT CLUB

WATCH HILL FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
DREDGE DISPOSAL AREA PLAN

REVISIONS		
No.	DESCRIPTION	DATE
1	ADDRESSED CRMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=60'

**SHT. 10
OF 11**

PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

DREDGE
DISPOSAL SITE
PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDRESSED CEMC STAFF & PUBLIC COMMENTS	06/16/23

DESIGNED BY: AAN

DRAWN BY: AAN

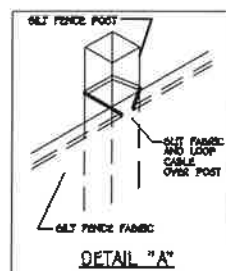
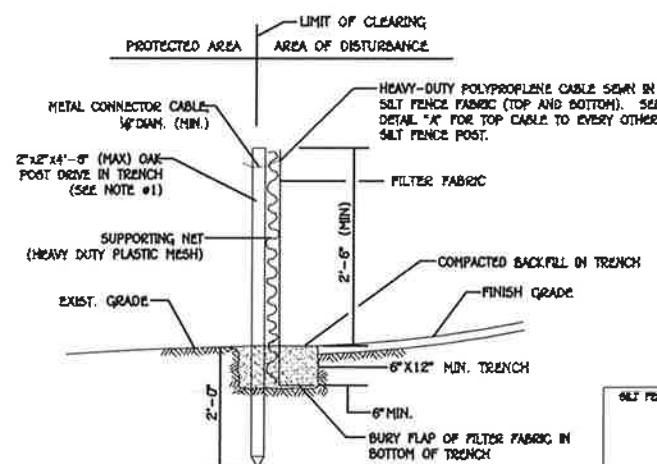
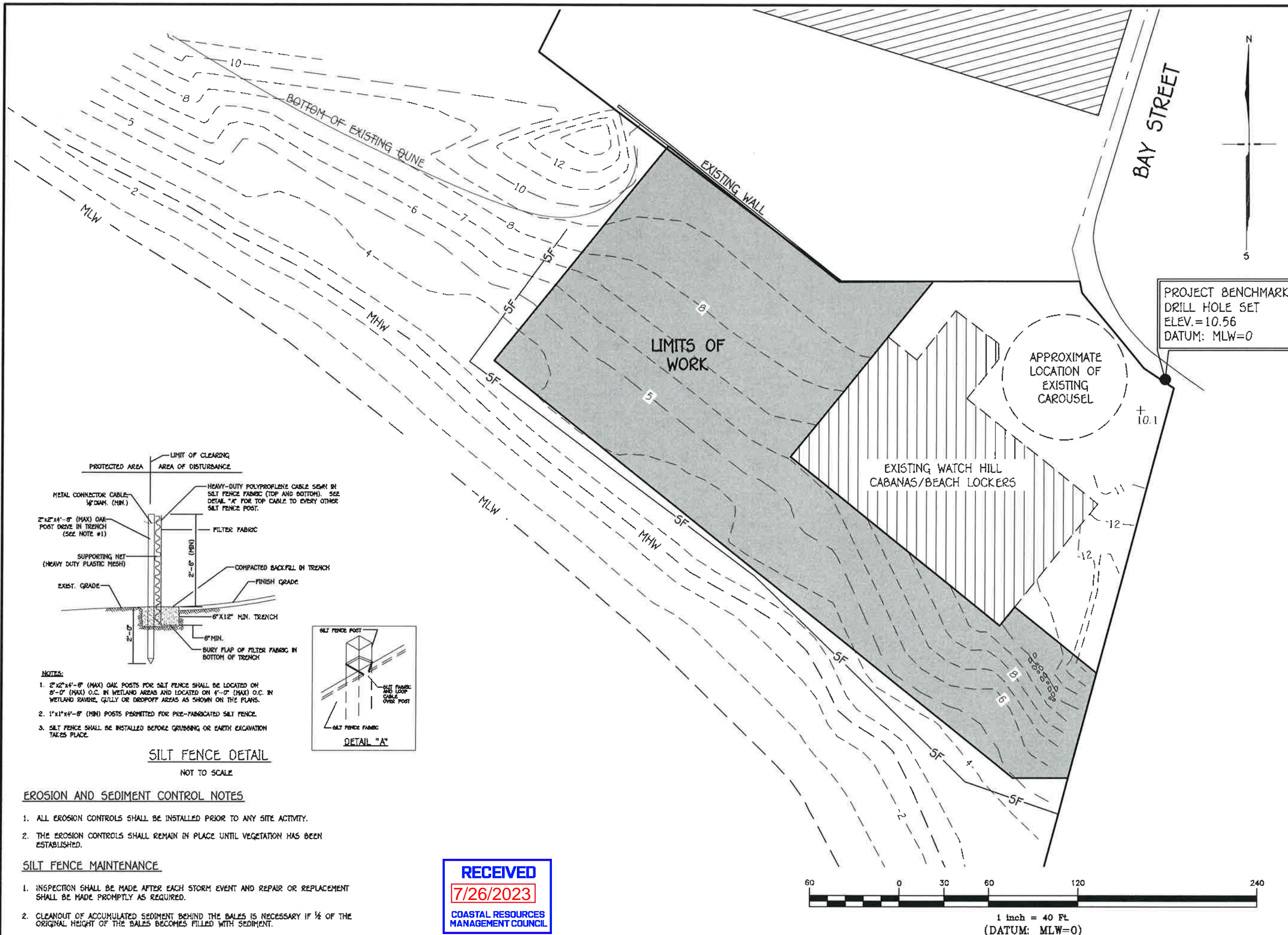
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

Scale: 1"=60'

SHT. 11
OF 11



NOTES:

- 2"x2"x4'-6" (MAX) OAK POSTS FOR SILT FENCE SHALL BE LOCATED ON 8'-0" (MAX) O.C. IN WETLAND AREAS AND LOCATED ON 4'-0" (MAX) O.C. IN WETLAND RAVINE, GULLY OR DROPOFF AREAS AS SHOWN ON THE PLANS.
- 1"x1"x4'-6" (MIN) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
- SILT FENCE SHALL BE INSTALLED BEFORE GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION CONTROLS SHALL BE INSTALLED PRIOR TO ANY SITE ACTIVITY.
- THE EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED.

SILT FENCE MAINTENANCE

- INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
- CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE BALES IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.

RECEIVED

7/26/2023

COASTAL RESOURCES
MANAGEMENT COUNCIL

Here Endeth the Public Re-Notice

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879
(401)783-3370

State of Rhode Island
Department of Environmental Management
Office of Technical and Customer Asst.
235 Promenade Street
Providence, RI 02908-5767
(401)222-6822

JOINT PUBLIC NOTICE

CRMC File No.: 2022-11-010

Date: January 18, 2023

RIDEM Water Quality Certification Number: WQC 22-245 / DP 22-195

These offices have under consideration the application of:

Watch Hill Yacht Club
1 Fort Road
Westerly, RI 02891

for State of Rhode Island Assent (in accordance with the Coastal Resources Management Program), and State of Rhode Island Water Quality Certification (in accordance with Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the RIGL, as amended).

The project will include: A dredge permit to dredge the areas near the existing bulkhead. The project is estimated to remove approximately 765 cubic yards of sediment. The dredging activity will occur on the west side of the club building in an area of approximately 12,200 square feet and on the east side for approximately 4,200 square feet. The material has been tested and is acceptable for reuse on the nearby Watch Hill Beach.

Project Location: Within the Watch Hill Yacht Club MPL, near the exiting bulkhead

Street & Number: 1 Fort Road/151 Bay Street

City/Town: Westerly

Plat Number: 185 Lot Number: 31-1

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter. You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

RICRMC/RIDEM Joint Public Notice
CRMC File No. 2022-11-010
January 18, 2023
Page Two

This also serves as notice that the Rhode Island Department of Environmental Management, Office of Water Resources, Water Quality Certification Program has under consideration and review the same proposed activity as described above for compliance with the State's Water Quality Regulations (AUTHORITY: in accordance with Clean Water Act, as amended (33 U.S.C. 1251 et.seq.; Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the Rhode Island General Laws of 1956, as amended).

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing and be received at this office on or before **February 18, 2023**. Please provide comments via email at cstaff1@crmc.ri.gov or via USPS to Coastal Resources Management Council, O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

It is expected that objectors will review the application and associates plans thoroughly. Comments that pertain to this Joint Notice must be submitted in writing and must be addressed to Rhode Island Coastal Resources Management Council and Rhode Island Department of Environmental Management at the above referenced addresses.

/lat

EXHIBIT 1

SITE PHOTOGRAPHS



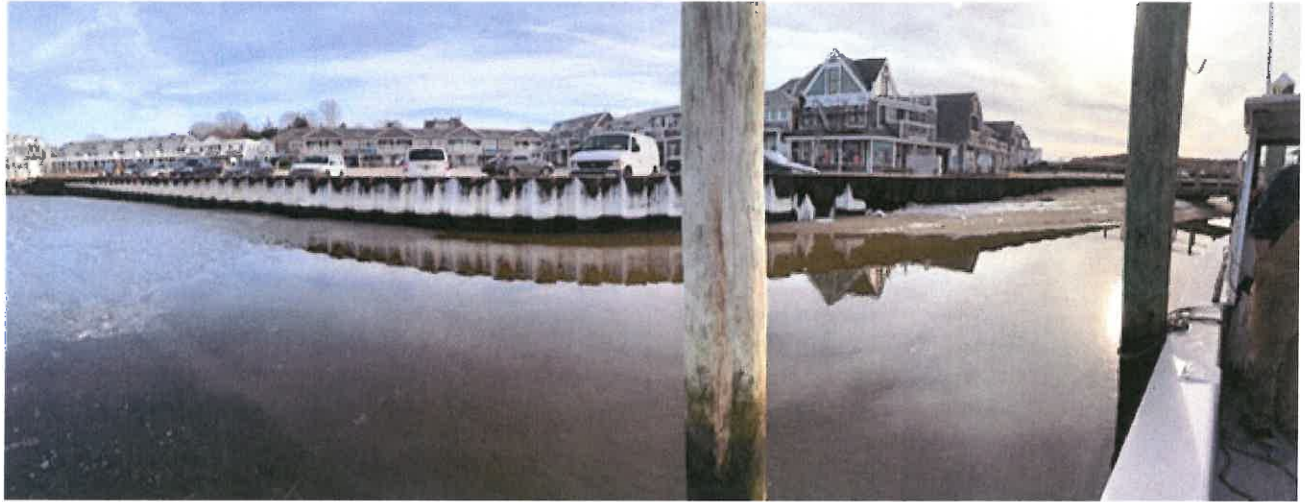


Photo 1: Panoramic Photo of East Side of Watch Hill Yacht Club.

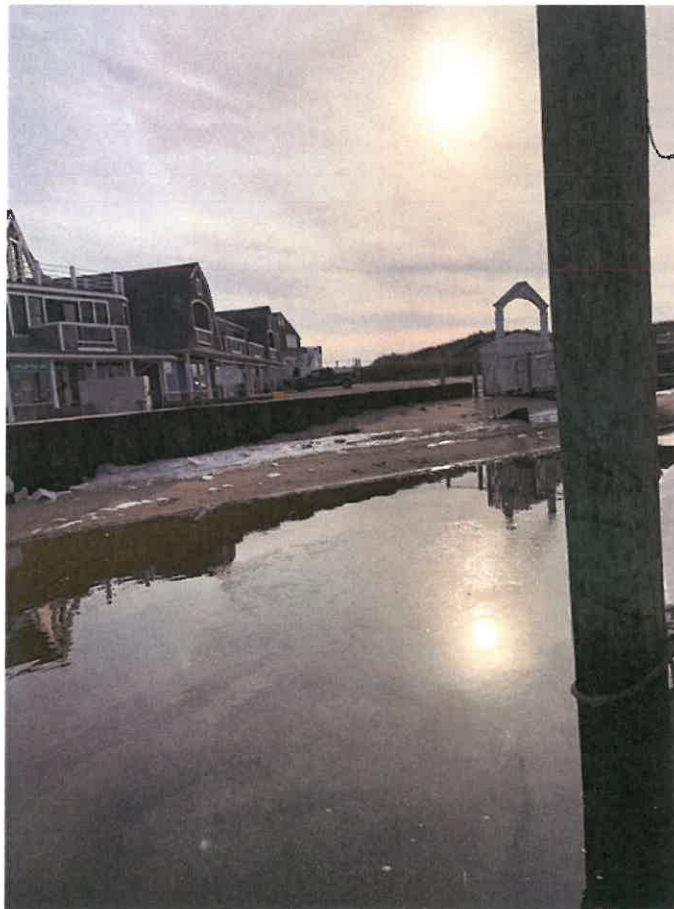


Photo 2: East Side of Watch Hill Yacht Club at Mean Low Water.

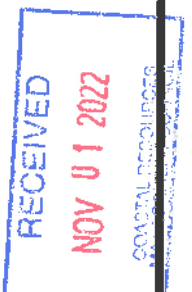




Photo 3: West Side of Watch Hill Yacht Club in Area of Proposed Dredging.

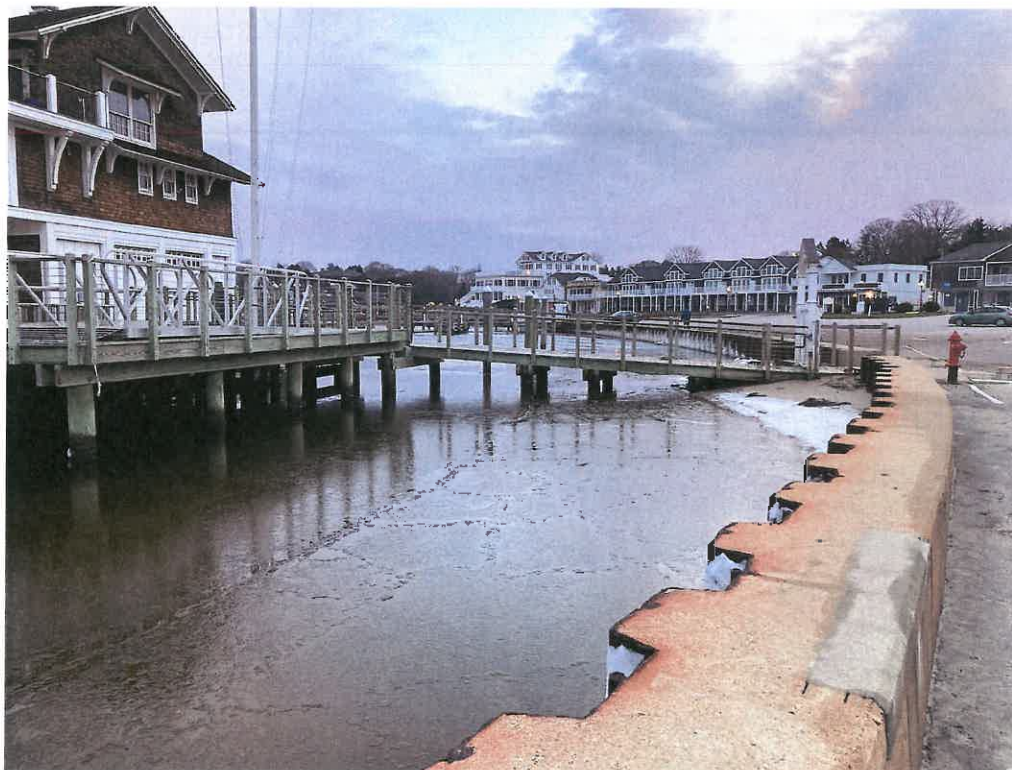


Photo 4: West Side of Watch Hill Yacht Club at Mean Low Water.

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COASTAL RESOURCE



Photo 5: East Side of Watch Hill Yacht Club in Area of Proposed Dredging at MLW.



Photo 6: East Side of Watch Hill Yacht Club at Mean Low Water.

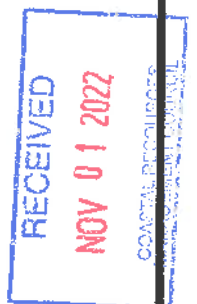




Photo 7: 2022 Photograph - East Side of Watch Hill Yacht Club in Area of Proposed Dredging at MLW.



Photo 8: 1998 Photograph - East Side of Watch Hill Yacht Club at Mean Low Water.

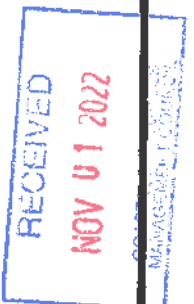


EXHIBIT 2

**2022 SAMPLING PLAN
AND
SIEVE ANALYSES**





Date: February 10, 2022 Applicant(s): Watch Hill Yacht Club
Project Name: Maintenance Dredge at WH Yacht Club Address: 1 Fort Road, Westerly RI
Estimated Volume of Dredge (cy): 765 New (cy): _____ Maintenance (cy): 765
Area of Dredge (sf): 16,400 +/- Depth of Dredge: Approx. 3 ft.
Proposed Disposal Location (include Plat/Lot if on land): 151 Bay Street, Watch Hill Fire District Beach, Plat 185, Lot 31-1
WQ Class of Dredge Area (if known): _____ GW Class of Disposal Area (if, known): _____

Sediment Sampling Plan for Dredging Projects

Submit Site plan 8 1/2" x 11" (Google Earth printout and Navigation Chart or engineered plans) Mark all within 200' of proposed dredge limits:

- ☒ Outfalls and Gas docks or any other potential areas of contamination
☐ eelgrass, salt marsh, flounder or shellfish habitat
☒ Proposed dredge footprint and average depth of dredge

Proposed Depth of Samples 36"

Proposed Coring Method Hand dug

of Sampling Locations 2

Submit Proposed Analysis and detection limits depending on disposal location: The detection limits for an analyte should be no greater than one-third (one-half log unit) of the appropriate value for the analyte and matrix of concern. Whenever possible, an MDL of three to five times below the criteria is expected. If the criteria are Non-Detect then the procedures and MRL's set forth in the OTM (USEPA and USACE 1991) below are appropriate to follow. In-water disposal must meet all Army Corps Requirements.

Place a ☐ CHECK in each box you are proposing to sample and CIRCLE intended laboratory method.

Sample	Beach Criteria	CAD Cap Criteria	GA Leachability Criteria TCLP/SPLP	Residential Disposal Criteria ¹	Commercial/Industrial Exposure ²	TCLP Criteria for Haz. Waste ³	Acceptable EPA Method(s)	MRL**
Grain Size	<input checked="" type="checkbox"/> <10% silt/clay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
% Moisture	<input type="checkbox"/> <25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
TPH	<input type="checkbox"/> ND	<input type="checkbox"/>	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 2500 mg/kg		SW 8015C	100 mg/Kg
SVOC		<input type="checkbox"/>	<input type="checkbox"/> Table 2 ³	<input type="checkbox"/> Table 1 ¹	<input type="checkbox"/> Table 1 ²		8270 SIM	10 ug/Kg
PCB	<input type="checkbox"/> *ND	<input type="checkbox"/> 0.4 mg/kg	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 10 mg/kg		8082	* .02 mg/Kg
PAH		<input type="checkbox"/> 4.0 mg/kg					8270- Six (6) Tier 1 compounds	
Arsenic (As)	<input type="checkbox"/> 1.7 mg/kg	<input type="checkbox"/> 10 mg/kg		<input type="checkbox"/> 7.0 mg/kg	<input type="checkbox"/> 7.0 mg/kg	<input type="checkbox"/> 5.0 mg/L	6010, 6020, 7061, 7062, 7000, 7010	0.4 mg/Kg
Cadmium (Cd)	<input type="checkbox"/> 1 mg/kg	<input type="checkbox"/> 5 mg/kg	<input type="checkbox"/> 0.03 mg/L	<input type="checkbox"/> 39 mg/kg	<input type="checkbox"/> 1000 mg/kg	<input type="checkbox"/> 1.0 mg/L	6010, 6020, 7000, 7010	0.07 mg/Kg
Chromium (Cr)	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 100 mg/kg	<input type="checkbox"/> 1.1 mg/L	<input type="checkbox"/> 390 mg/kg	<input type="checkbox"/> 10000 mg/kg	<input type="checkbox"/> 5.0 mg/L	6010, 6020, 7000, 7010	0.5 mg/Kg
Copper (Cu)	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 200 mg/kg		<input type="checkbox"/> 3100 mg/kg	<input type="checkbox"/> 10000 mg/kg		6010, 6020, 7000, 7010	0.5 mg/Kg
Lead (Pb)	<input type="checkbox"/> 25 mg/kg	<input type="checkbox"/> 100 mg/kg	<input type="checkbox"/> 0.04 mg/L	<input type="checkbox"/> 150 mg/kg	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 35.0 mg/L	6010, 6020, 7000, 7010	0.5 mg/Kg
Mercury (Hg)	<input type="checkbox"/> 0.5 mg/kg	<input type="checkbox"/> 0.5 mg/kg	<input type="checkbox"/> 0.02 mg/L	<input type="checkbox"/> 23 mg/kg	<input type="checkbox"/> 610 mg/kg	<input type="checkbox"/> 0.2 mg/L	7470, 7471, 7472	0.07 mg/Kg
Nickel (Ni)	<input type="checkbox"/> 5 mg/kg	<input type="checkbox"/> 50 mg/kg	<input type="checkbox"/> 11 mg/L	<input type="checkbox"/> 1000 mg/kg			6010, 6020, 7000, 7010	0.5 mg/Kg
Zinc (Zn)	<input type="checkbox"/> 25 mg/kg	<input type="checkbox"/> 200 mg/kg		<input type="checkbox"/> 6000 mg/kg			6010, 6020, 7000, 7010	1.0 mg/Kg
TCLP or SPLP							1311 or 1312	
Barium (Ba)						<input type="checkbox"/> 100 mg/L	6010, 6020	
Selenium (Se)						<input type="checkbox"/> 1.0 mg/L	6010, 6020, 7741, 7742	
Silver (Ag)						<input type="checkbox"/> 5.0 mg/L	6010, 6020	

* For each arochlor **For Beach Criteria - any other MRL should be at least three to five times below the criteria

¹ Residential Direct Exposure Criteria are defined in Table 1 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.

² Commercial/Industrial Direct Exposure Criteria are defined in Table 1 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.

³ GA Leachability Criteria are defined in Table 2 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.

Approvals

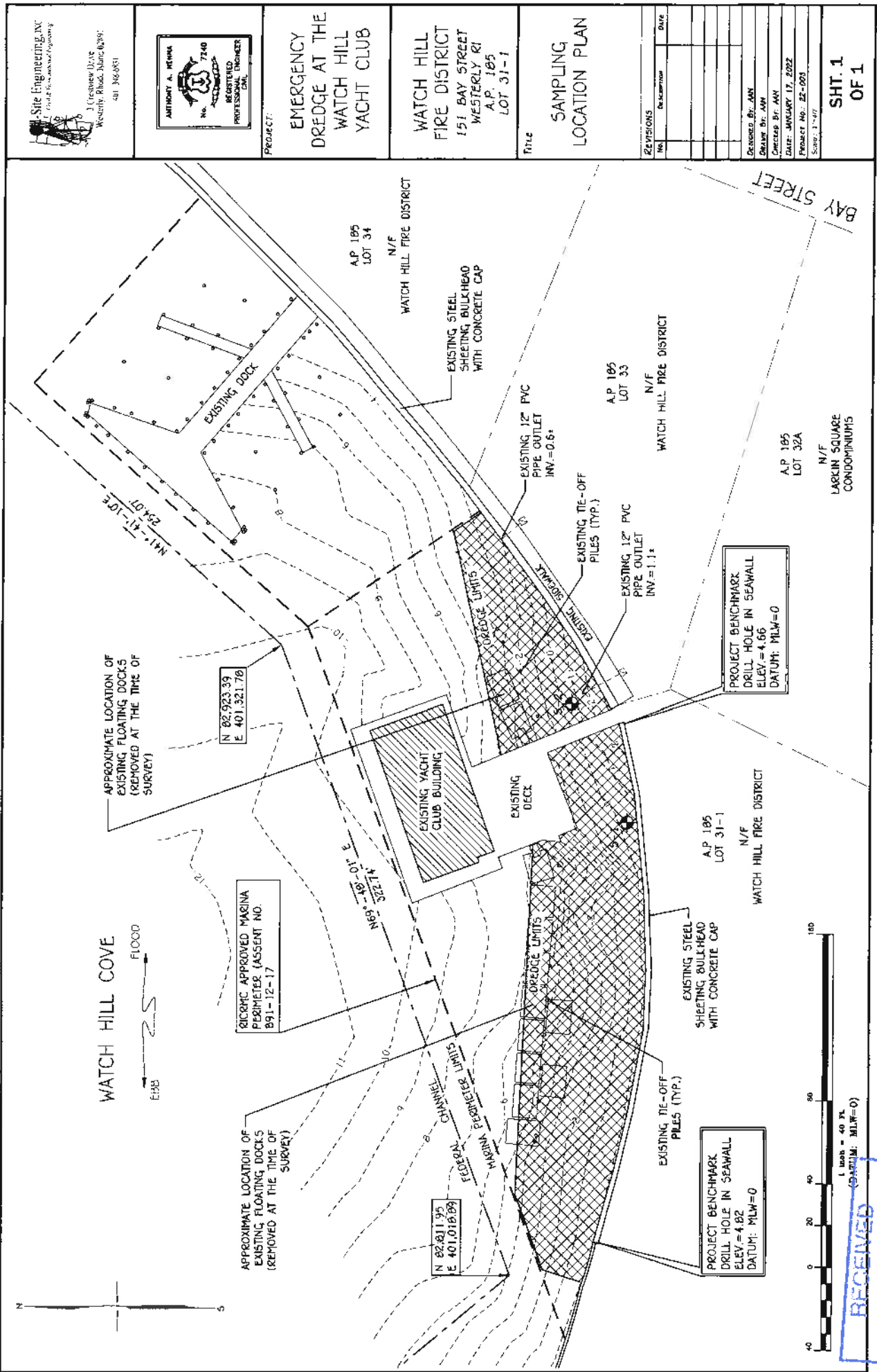
Dredge Coordinator (CRMC): _____ Date: _____

WQC Program (DEM): _____ Date: _____

GW Program (DEM), if upland _____ Date: _____

Dredge Coordinator (DEM): _____ Date: _____





Site Engineering, Inc.
Civil & Mechanical Engineering
31 Crestview Drive
Westerly, Rhode Island 02891
401-366-0851



PROJECT:
EMERGENCY
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
SAMPLING
LOCATION PLAN

REVISIONS	
No.	Description

DESIGNED BY: AN
DRAWN BY: AN
CHECKED BY: AN
DATE: JANUARY 17, 2022
PROJECT NO.: 22-020
Scale: 1"=40'

SHT. 1
OF 1

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CONCEPTS & ENGINEERING
MANAGEMENT CONSULTING

The graph illustrates the grain size distribution of a soil sample. The vertical axis represents the percentage of soil finer than a given sieve size, ranging from 0 to 100. The horizontal axis represents the sieve size in millimeters on a logarithmic scale, ranging from 100 mm down to 0.001 mm. The curve shows that the soil is 100% finer than a #4 sieve (4.75 mm) and 0% finer than a #200 sieve (0.075 mm). The soil is classified as a fine-grained soil (silt or clay) based on the percentage passing the #200 sieve.

Sieve Size (mm)	Percent Finer (%)
100	100
75	100
60	100
40	100
30	100
20	100
15	100
10	100
7.5	100
6	100
4.75 (#4)	100
3.75	100
3	100
2.5	100
2	100
1.5	100
1.18	100
0.85	100
0.75	100
0.6	100
0.425 (#10)	100
0.3	100
0.25	100
0.2	100
0.15	100
0.125	100
0.106	100
0.085	100
0.075 (#20)	100
0.06	100
0.05	100
0.0425 (#40)	100
0.0375	100
0.03	100
0.025	100
0.02	100
0.015	100
0.0125	100
0.0106	100
0.0085	100
0.0075 (#200)	100
0.006	100
0.005	100
0.00425	100
0.00375	100
0.003	100
0.0025	100
0.002	100
0.0015	100
0.00125	100
0.00106	100
0.00085	100
0.00075	100
0.0006	100
0.0005	100
0.000425	100
0.000375	100
0.0003	100
0.00025	100
0.0002	100
0.00015	100
0.000125	100
0.000106	100
0.000085	100
0.000075	100
0.00006	100
0.00005	100
0.0000425	100
0.0000375	100
0.00003	100
0.000025	100
0.00002	100
0.000015	100
0.0000125	100
0.0000106	100
0.0000085	100
0.0000075	100
0.000006	100
0.000005	100
0.00000425	100
0.00000375	100
0.000003	100
0.0000025	100
0.000002	100
0.0000015	100
0.00000125	100
0.00000106	100
0.00000085	100
0.00000075	100
0.0000006	100
0.0000005	100
0.000000425	100
0.000000375	100
0.0000003	100
0.00000025	100
0.0000002	100
0.00000015	100
0.000000125	100
0.000000106	100
0.000000085	100
0.000000075	100
0.00000006	100
0.00000005	100
0.0000000425	100
0.0000000375	100
0.00000003	100
0.000000025	100
0.00000002	100
0.000000015	100
0.0000000125	100
0.0000000106	100
0.0000000085	100
0.0000000075	100
0.000000006	100
0.000000005	100
0.00000000425	100
0.00000000375	100
0.000000003	100
0.0000000025	100
0.000000002	100
0.0000000015	100
0.00000000125	100
0.00000000106	100
0.00000000085	100
0.00000000075	100
0.0000000006	100
0.0000000005	100
0.000000000425	100

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.5	50.5	47.0	1.0	

(no specification provided)

SAND TAKEN AT 3' DEPTH (SAMPLE S-1).

Checked By: SAB

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COAST GUARD
MANAGEMENT BOARD

GRAIN SIZE DISTRIBUTION TEST DATA

3/4/2022

Client: ON-SITE ENGINEERING

Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project Number: GEC-5102

Location: WESTERLY, RI

Depth: N/A

Sample Number: S-1

Material Description: SAMPLE S-1: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

Date: 03/04/22

PL: NP

LL: NV

PI: NP

USCS Classification: SP

AASHTO Classification: A-1-b

Testing Remarks: SAND TAKEN AT 3' DEPTH (SAMPLE S-1).

Tested by: RH

Checked by: SAB

Sieve Test Data

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	96.0
#30	72.0
#40	48.0
#50	24.0
#100	11.0
#200	1.0

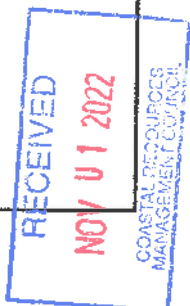
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.5	50.5	47.0	99.0			1.0

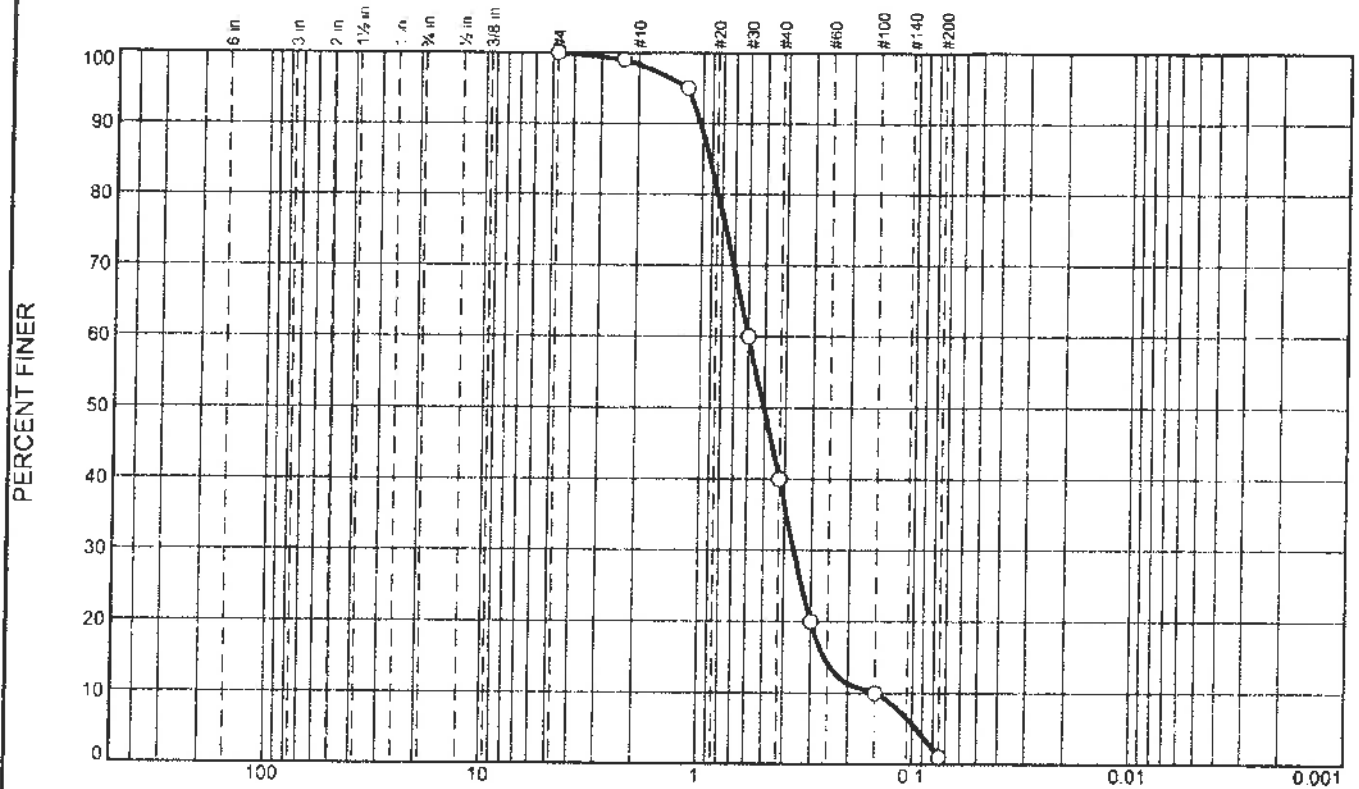
D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0943	0.1343	0.2301	0.2745	0.3322	0.3826	0.4363	0.4998	0.6968	0.7815	0.9023	1.1112

Fineness Modulus	C _u	C _c
1.98	3.72	1.64

Geisser Engineering Corporation



Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0		0.0	0.0	1.7	58.3	39.0	1.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	95.0		
#30	60.0		
#40	40.0		
#50	20.0		
#100	10.0		
#200	1.0		

(no specification provided)

Material Description
SAMPLE S-2: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₉₀= 1.0287 D₈₅= 0.9248 D₆₀= 0.6000
D₅₀= 0.5041 D₃₀= 0.3617 D₁₅= 0.2587
D₁₀= 0.1500 C_u= 4.00 C_c= 1.45

Classification
USCS= SP AASHTO= A-1-b

Remarks
SAND TAKEN AT 3' DEPTH (SAMPLE S-2).

Location: WESTERLY, RI
Sample Number: S-2 Depth: N/A

Date: 03/04/22

Geisser Engineering Corporation

Client: ON-SITE ENGINEERING

Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Riverside, Rhode Island

Project No: GEC-5102

Figure

Tested By: RH

Checked By: SAB

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COASTAL RESOURCES
MANAGEMENT DIVISION

GRAIN SIZE DISTRIBUTION TEST DATA

3/4/2022

Client: ON-SITE ENGINEERING

Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project Number: GEC-5102

Location: WESTERLY, RI

Depth: N/A

Sample Number: S-2

Material Description: SAMPLE S-2: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

Date: 03/04/22

PL: NP

LL: NV

PI: NP

USCS Classification: SP

AASHTO Classification: A-1-b

Testing Remarks: SAND TAKEN AT 3' DEPTH (SAMPLE S-2).

Tested by: RH

Checked by: SAB

Sieve Test Data

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	95.0
#30	60.0
#40	40.0
#50	20.0
#100	10.0
#200	1.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.7	58.3	39.0	99.0			1.0

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0960	0.1500	0.2587	0.3000	0.3617	0.4250	0.5041	0.6000	0.8419	0.9248	1.0287	1.1800

Fineness Modulus	C _u	C _c
2.16	4.00	1.45

Geisser Engineering Corporation

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COASTAL RESOURCES
MANAGEMENT COUNCIL

PERCENT FINER

SIEVE SIZE

Sieve Size	Percent Finer (%)
4	100
10	100
20	95
30	65
40	43
60	21
100	9
200	0

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.7	54.3	43.0	1.0	

(no specification provided)

SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH)
SAMPLE S-3.

Checked By: SAB

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COASTAL RESOURCES
MANAGEMENT COMMISSION

GRAIN SIZE DISTRIBUTION TEST DATA

3/4/2022

Client: ON-SITE ENGINEERING

Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project Number: GEC-5102

Location: WESTERLY, RI

Depth: N/A

Sample Number: S-3

Material Description: SAMPLE S-3: SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH). SAMPLED BY CLIENT.

Date: 03/04/22

PL: NP

LL: NV

PI: NP

USCS Classification: SP

AASHTO Classification: A-1-b

Testing Remarks: SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH) SAMPLE S-3.

Tested by: RII

Checked by: SAB

Sieve Test Data

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	95.0
#30	66.0
#40	44.0
#50	22.0
#100	10.0
#200	1.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.7	54.3	43.0	99.0			1.0

D ₅	D ₁₀	D ₁₅	D ₂₀	D ₃₀	D ₄₀	D ₅₀	D ₆₀	D ₈₀	D ₈₅	D ₉₀	D ₉₅
0.0968	0.1500	0.2454	0.2868	0.3457	0.4011	0.4645	0.5431	0.7786	0.8695	0.9901	1.1800

Fineness Modulus	C _u	C _c
2.08	3.62	1.47

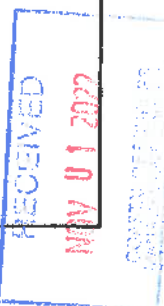


EXHIBIT 3

SIEVE ANALYSES FROM 1992 AND 2007



1. Sample Description:

<u>Sample No.</u>	<u>Description</u>	<u>Source</u>
P-2525	Fine Sand	Dredged Sample
P-2526	Fine Sand	Disposal Area (Beach Site)

2. Sieve Analysis ASTM D-422:

<u>Sieve Size</u> <u>Sample Number</u>	<u>Percent Passing</u>	
	<u>P-2525</u>	<u>P-2526</u>
#4	100.0%	100.0%
#10	99.4%	100.0%
#20	83.9%	99.8%
#40	15.2%	73.0%
#80	0.3%	2.9%
#200	0.2%	0.1%

SIEVE ANALYSES
 FROM 1992
 DREDGING PERMIT



Raymond H. Laurendeau
Director of Testing



PROJECT:
Water Pollution Control District
Bulldozing Project

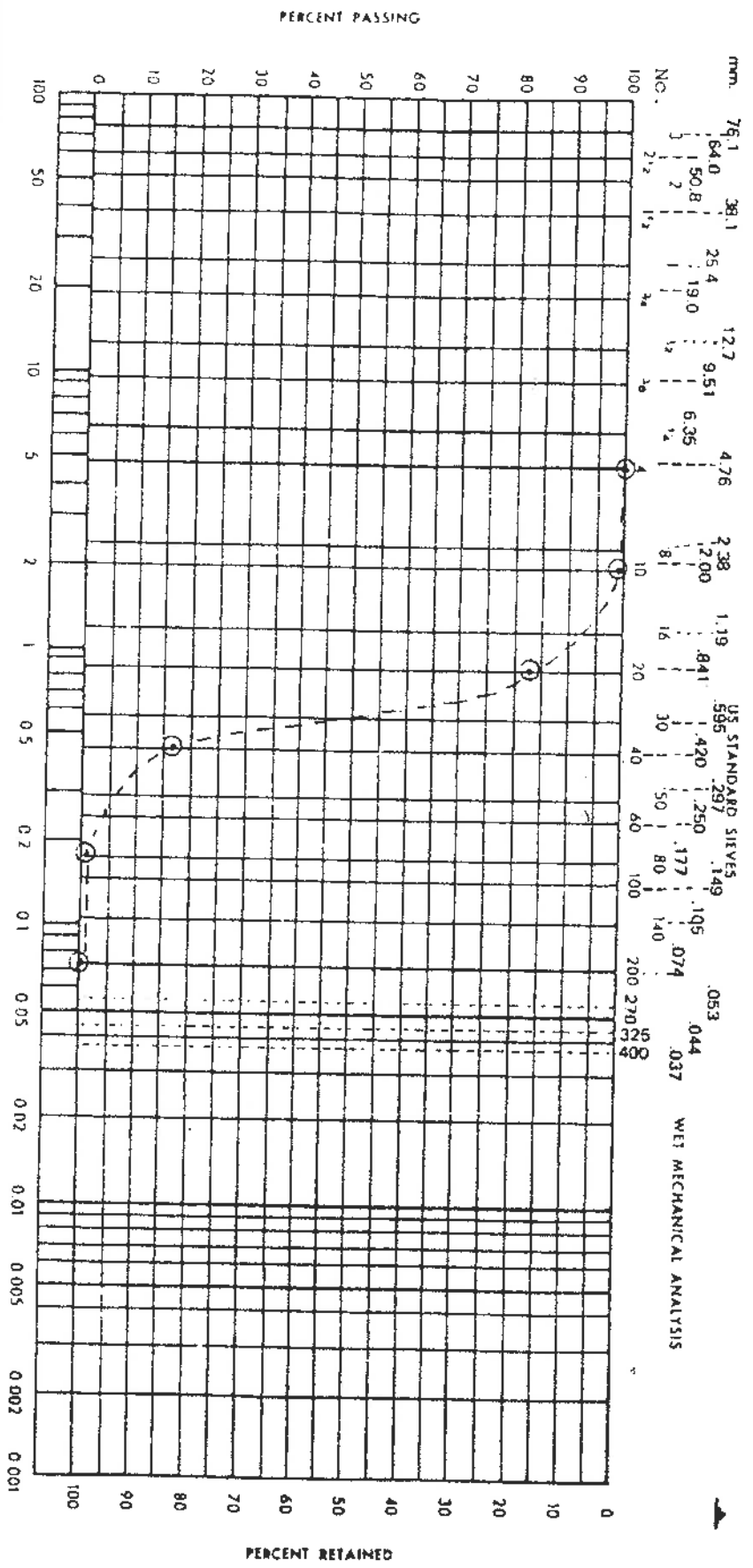
SF-SF-03-
Form # 04-01-79

File #: SF-02.001.0
Grain Size Distribution-
RE: Aggregate Grading
Chart

Proc. #: SF 3/2
Report #: 31192

2702 10 ADM
CHALCO, NE 68002

SIEVE ANALYSIS
(DREDGE MATERIAL)
FROM 1992
DREDGING PERMIT



Cobbles	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Colloids
	Gravel							

P-2525-Dredged Sample

RECTOR: *James M. Lee*

DATE: 3-11-92

APPROVAL:

Raymond H. Laurendeau
Director of Testing



GZA GEOENVIRONMENTAL, INC.

GRAIN SIZE ANALYSIS - MECHANICAL (ASTM D422)

Project: Watch Hill Yacht Club Job No.: 33329.00

Location of Project:

Sample No.: Composite Boring No.: N/A Depth: N/A

Sample Description: Light Brown, Fine to Medium SAND

Sample Source: Onsite

Tested By: LAS Date of Test: 10/9/2007

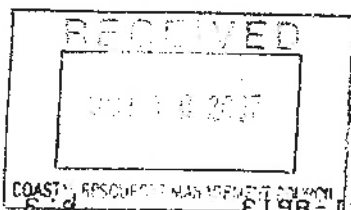
Sample Weight

	Dry	Washed (#200)	
Wt. of dry sample + container (g)	1573.8	1570.5	
Wt. of container (g) P-0	332.8	332.8	Wt. of Fines
Wt. of dry sample (g)	1241	1237.7	3.3

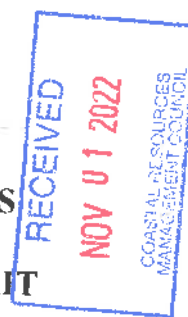
Gradation Test Results

Sieve No.	Sieve + Soil	Wt. of Sieve	Wt. retained	Cumulative retained	% retained	% passing
2"	824.7	824.7	0.0	0.00	0.00	100.00
1"	826.7	826.7	0.0	0.0	0.0	100.0
3/4"	577.2	577.2	0.0	0.0	0.0	100.0
1/2"	789.6	789.6	0.0	0.0	0.0	100.0
#4	512.0	510.1	1.9	1.9	0.2	99.8
#10	483.4	472.4	11.0	12.9	1.0	99.0
#20	672.3	422.7	249.6	262.5	21.1	78.9
#40	1196.1	366.9	809.2	1071.7	86.3	13.7
#100	514.9	349.0	165.9	1237.6	99.7	0.3
#200	825.5	825.0	0.5	1238.1	99.7	0.3
PAN	369.5	369.5	3.3	1241.4	100	0

Comments:



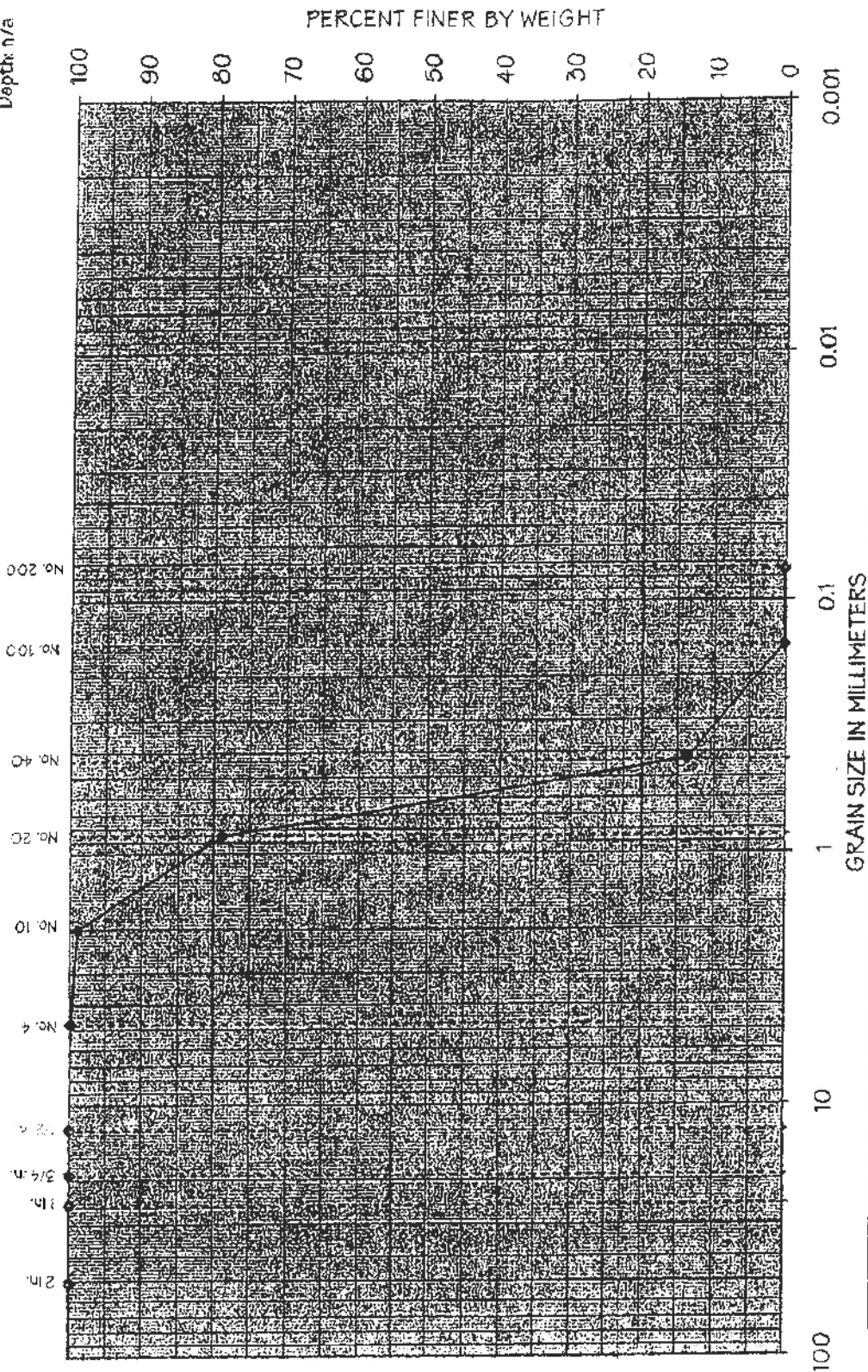
SIEVE ANALYSIS
FROM 2007
DREDGING PERMIT



Project: Watch Hill Yatch Club
Job. No.: 33329.00

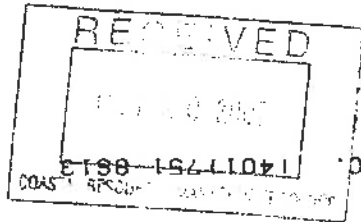
GRADATION TEST
U.S. STANDARD SIEVE SIZE

Date: 10/19/07
Tech./Reviewer: LAS
Boring/Sample: Composite
Depth: n/a



Sample Source: Onsite
Sample Description: Light Brown, Fine to Medium SAND

SIEVE ANALYSIS
FROM 2007
DREDGING PERMIT



LEGEND

5.5 -	EXISTING SPOT ELEVATION/SOUNDING	—W—W—	PROPOSED WATER SERVICE
---5---	EXISTING CONTOUR	—UE—UE—	PROPOSED UNDERGROUND ELECTRICAL
—	EDGE OF POND	—6—	PROPOSED CONTOUR
CF-A △	COASTAL FEATURE FLAG		
—	WETLAND BUFFER (50 FT.)	DIAM.	DIAMETER
—	EXISTING TREE LINE	TYP.	TYPICAL
—	PROPERTY LINE	P.T.	PRESSURE TREATED
—W—	EXISTING WATER MAIN	BIT. CONC.	BITUMINOUS CONCRETE
⊙	WELL	CONC.	CONCRETE
		F/FLR.	FINISHED FLOOR
		T.O.F.	TOP OF FOUNDATION
		MLW	MEAN LOW WATER
		MHW	MEAN HIGH WATER

CONSTRUCTION NARRATIVE

PROJECT DESCRIPTION

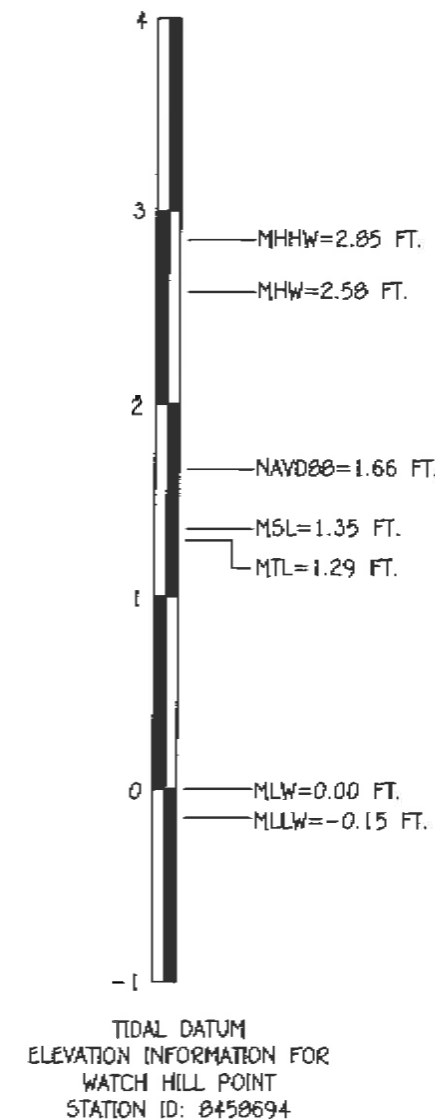
THE SUBJECT PROPERTY IS LOCATED AT 1 FORT ROAD, OFF OF BAY STREET IN THE TOWN OF WESTERLY, RHODE ISLAND AND IS PART OF AN EXISTING OPERATIONAL MARINA KNOWN AS THE WATCH HILL YACHT CLUB. THE MARINA IS LOCATED WITHIN WATCH HILL COVE. THE PROPOSED SITE IMPROVEMENTS INCLUDE DREDGING APPROXIMATELY 16,400 S.F. IN ORDER TO REMOVE SAND THAT HAS COLLECTED BETWEEN THE EXISTING BUILDING AND THE EXISTING BULKHEAD. THE BUILD UP OF SEDIMENT IN THIS AREA HAS OCCURRED THROUGH PREVIOUS YEARS AND CAN BE ATTRIBUTED TO THE CURRENT WAVE ACTION AND TIDAL FLUCTUATIONS. THE DREDGING WILL OCCUR WITHIN THE APPROVED MARINA PERIMETER. THE FINAL ELEVATION AT THE COMPLETION OF DREDGING OPERATIONS WILL BE ELEVATION -3.0, ALLOWING BOATS TO BE DOCKED ON THE CLUB'S EXISTING FLOATING DOCKS. APPROXIMATELY 765 CY OF MARINE SEDIMENT WILL BE REMOVED AND TEMPORARILY STOCKPILED ON THE BEACH AREA CURRENTLY OWNED BY THE WATCH HILL FIRE DISTRICT. ONCE THE MATERIAL IS DE-WATERED, THE MATERIAL WILL BE SPREAD ON SITE WITHIN THE EXISTING BEACH AREA. DREDGING WILL BE CONDUCTED WITH A HYDRAULIC CLAM SHELL OR EXCAVATOR. THE EQUIPMENT WILL BE SETUP AT TWO LOCATIONS ON THE EXISTING PARKING LOT IN ORDER TO REACH THE TWO DREDGING AREAS. THE SEDIMENT WILL BE LOADED ONTO A RUBBER TRACK DUMP TRUCK AND HAULED THROUGH THE EXISTING PARKING LOT AND ONTO BAY STREET TO THE DUMP SITE, WHICH IS LOCATED ON AN EXISTING BEACH ADJACENT TO THE CARROUSEL.

CONSTRUCTION SEQUENCE

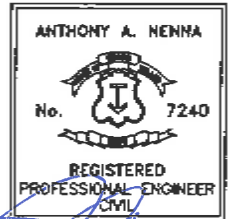
1. OBTAIN PLAN APPROVAL AND APPLICABLE PERMITS.
2. INSTALL SILT CURTAIN WITHIN DREDGING AREAS.
3. CONSTRUCTION EQUIPMENT MOBILIZATION.
4. START DREDGING. NOTE THAT DREDGING SHALL OCCUR BETWEEN OCTOBER 31ST AND JANUARY 31ST.
5. TRANSPORT AND STOCKPILE DREDGE SPOILS AS INDICATED ON THE PLANS.
6. ONCE DREDGE MATERIAL IS DRY SPREAD WITHIN EXISTING BEACH AREA.
7. FINALIZE DREDGING AND FINISH GRADING DREDGE SPOILS.

GENERAL NOTES:

1. THE SUBJECT PROPERTY IS AN EXISTING OPERATIONAL MARINA LOCATED ON WATCH HILL COVE IN THE TOWN OF WESTERLY AT THE WATCH HILL YACHT CLUB LOCATED DIRECTLY OFF OF BAY STREET IN WATCH HILL.
2. THE PROPOSED PROJECT SCOPE CONSISTS OF DREDGING A PORTION OF THE COVE BOTTOM ADJACENT TO THE EXISTING CLUB BUILDING/DOCKS SO THAT BOATS HAVE ADEQUATE DEPTH AT LOW TIDE WHEN DOCKED ON THE EXISTING FLOATING DOCKS. THE DREDGE MATERIAL WILL BE SPREAD ON THE ADJACENT BEACH THAT IS CURRENTLY OWNED BY THE WATCH HILL FIRE DISTRICT. APPROXIMATELY 765 C.Y OF MATERIAL WILL BE REMOVED FROM THE DREDGE AREA.
3. THE SUBJECT PROPERTY IS LOCATED ON WATCH HILL COVE PRIOR TO ENTERING LITTLE NARRAGANSETT BAY.
4. THE UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DIG-SAFE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
6. THE SUBJECT PROPERTY IS LOCATED IN ZONE V, ELEVATION 13, PER FEMA MAP NUMBER 44009C0261J DATED OCTOBER 16, 2013.
7. ELEVATION DATUM IS NAVD83, MLW=0.



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401-348-6831



Project: **MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB**

**WATCH HILL
FIRE DISTRICT**
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

NOTES

REVISIONS

No.	Description	Date
1	DESIGNED BY: AAN	NOV 01 2022
2	DRAWN BY: AAN	
3	CHECKED BY: AAN	

DESIGNED BY: AAN

DRAWN BY: AAN

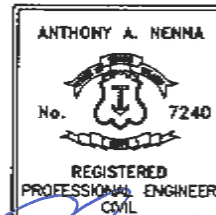
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT NO.: 22-003

Scale: None

**SHT. 2
OF 10**



PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

EXISTING
CONDITIONS
PLAN

REVISIONS

No.	DESCRIPTION	DATE
1	DESIGNED BY: AAN	
2	DRAWN BY: AAN	
3	CHECKED BY: AAN	
4	DATE: OCTOBER 20, 2022	
5	PROJECT No.: 22-003	
6	Scale: 1"=40'	

DESIGNED BY: AAN

DRAWN BY: AAN

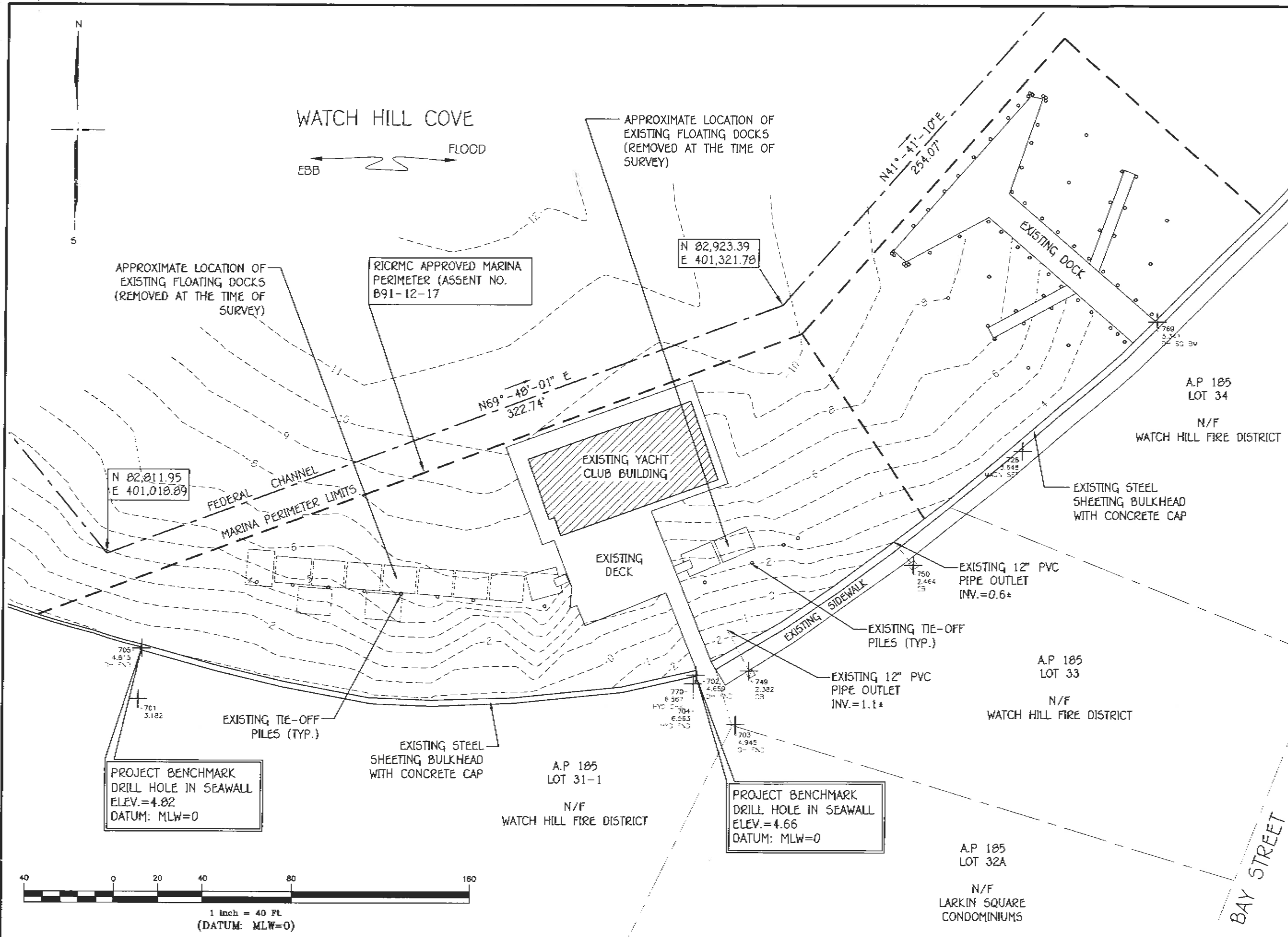
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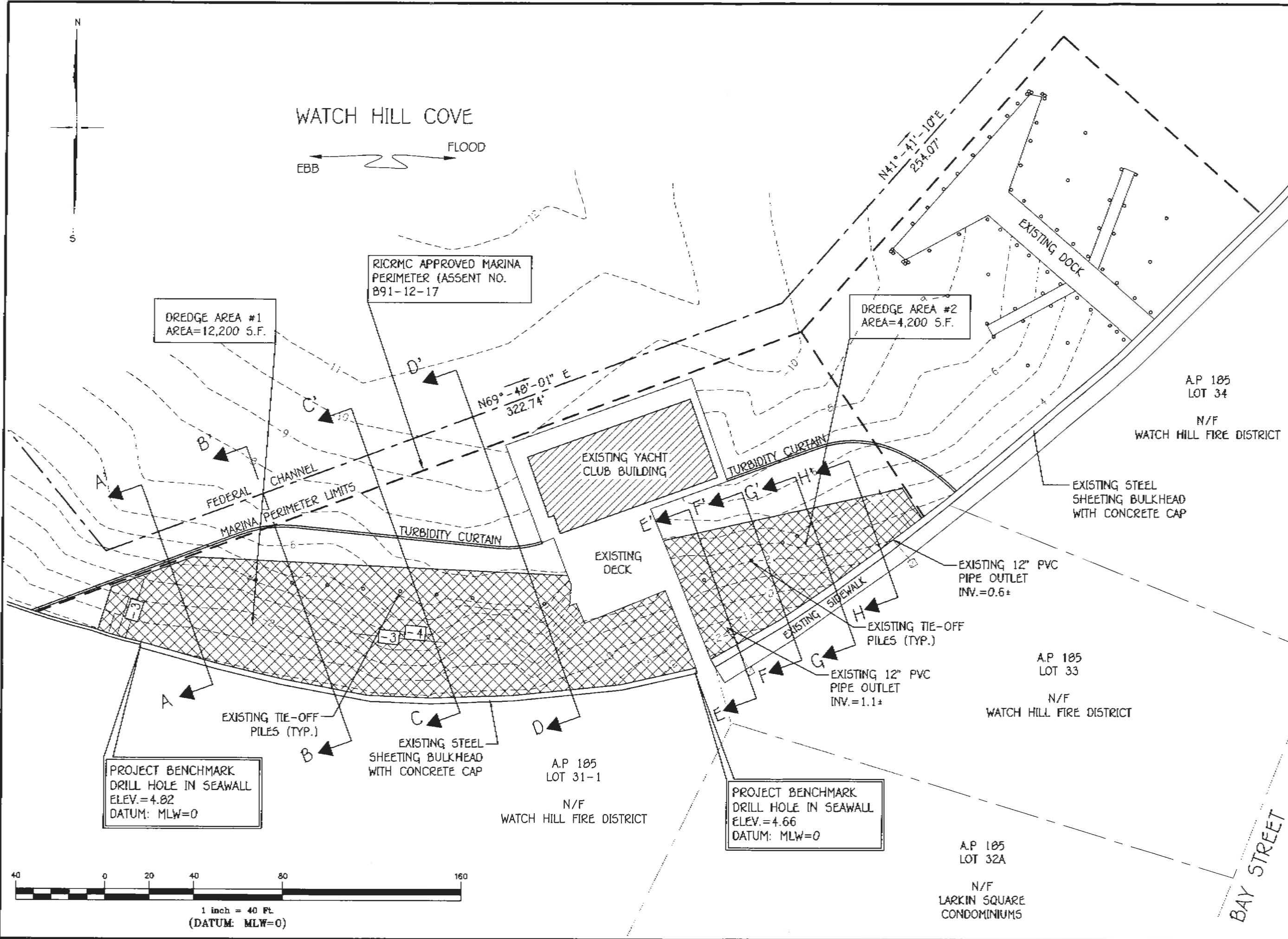
DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

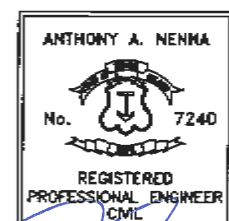
Scale: 1"=40'

SHT. 3
OF 10





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PROJECT: 18-31-22

**MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB**

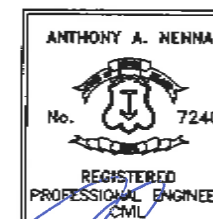
**WATCH HILL
FIRE DISTRICT**
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
**PROPOSED
CONDITIONS
PLAN**

REVISIONS		
No.	Description	DATE
1		NOV 01 2022
2		
3		
4		
5		

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT NO.: 22-003
Scale: 1"=40'

**SHT. 4
OF 10**



PROJECT:
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

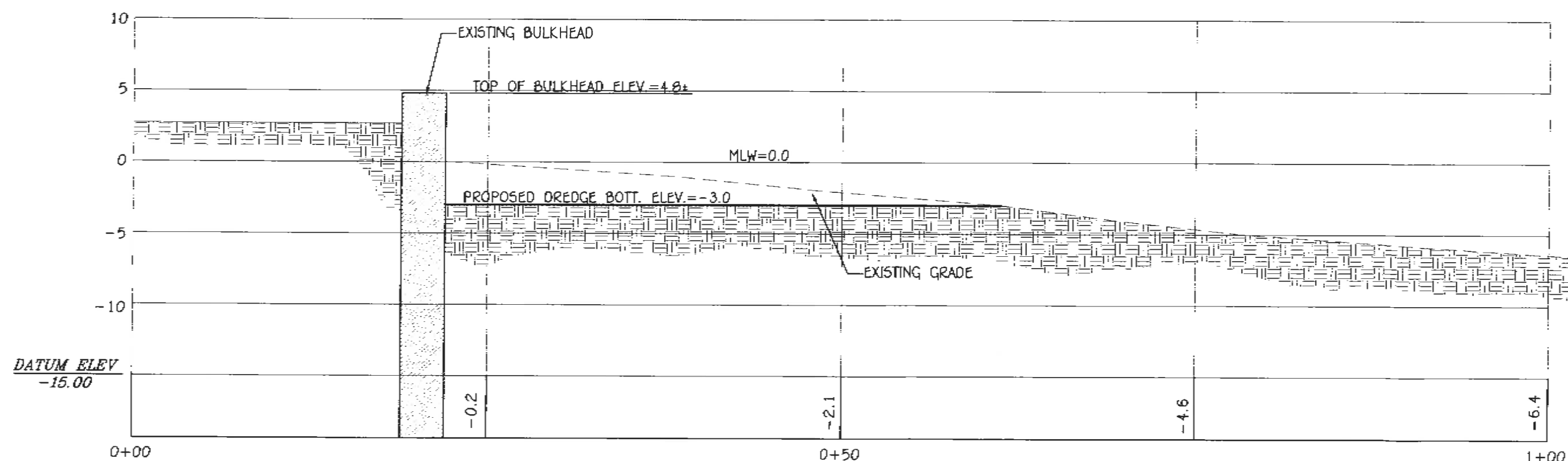
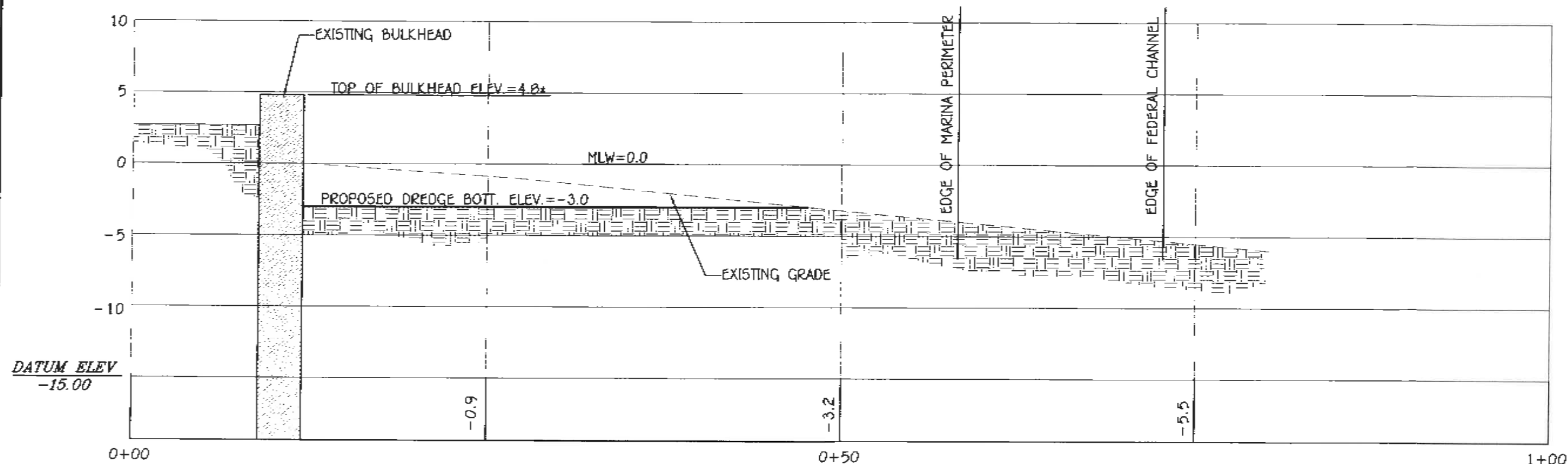
WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

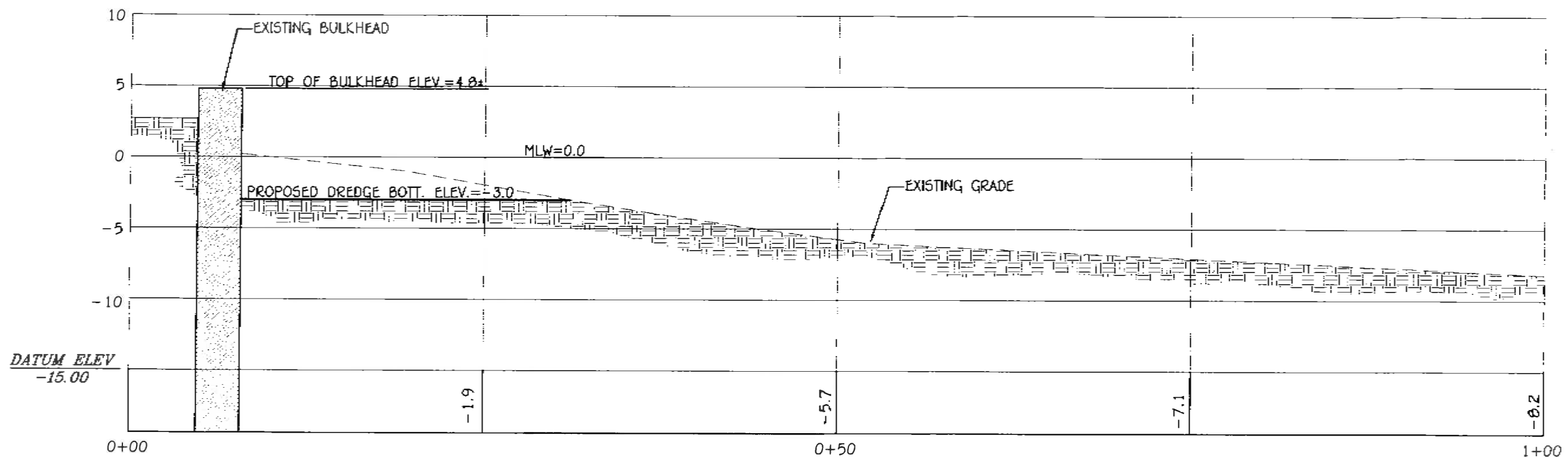
TITLE
CROSS
SECTIONS

REVISIONS

No.	DESCRIPTION	DATE
1	DESIGNED BY: AAN	10/11/2022
2	DRAWN BY: AAN	10/11/2022
3	CHECKED BY: AAN	10/11/2022
4	DATE: OCTOBER 20, 2022	
5	PROJECT No.: 22-003	
6	Scale: AS SHOWN	

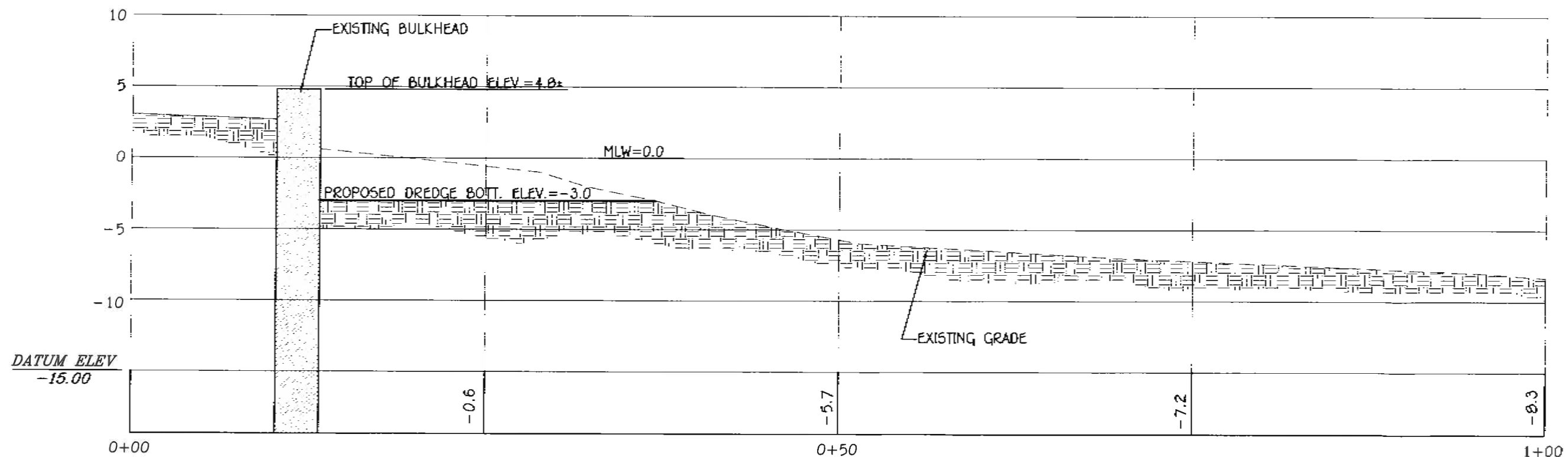
SHT. 5
OF 10





CROSS SECTION C-C'

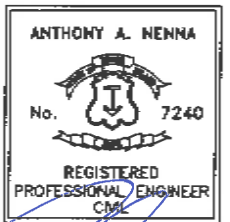
SCALE: 1/8"=1'



CROSS SECTION D-D'

SCALE: 1/8"=1'

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Project: 12-31-22
MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

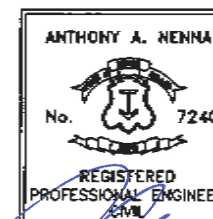
WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

CROSS
SECTIONS

REVISIONS		
No.	DESCRIPTION	DATE
1	DESIGNED BY: AAN	10/20/2022
2	DRAWN BY: AAN	10/20/2022
3	CHECKED BY: AAN	10/20/2022
4	DATE: OCTOBER 20, 2022	
5	PROJECT No.: 22-003	
6	Scale: None	

SHT. 6
OF 10



PROJECT: *12-31-22*
**MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB**

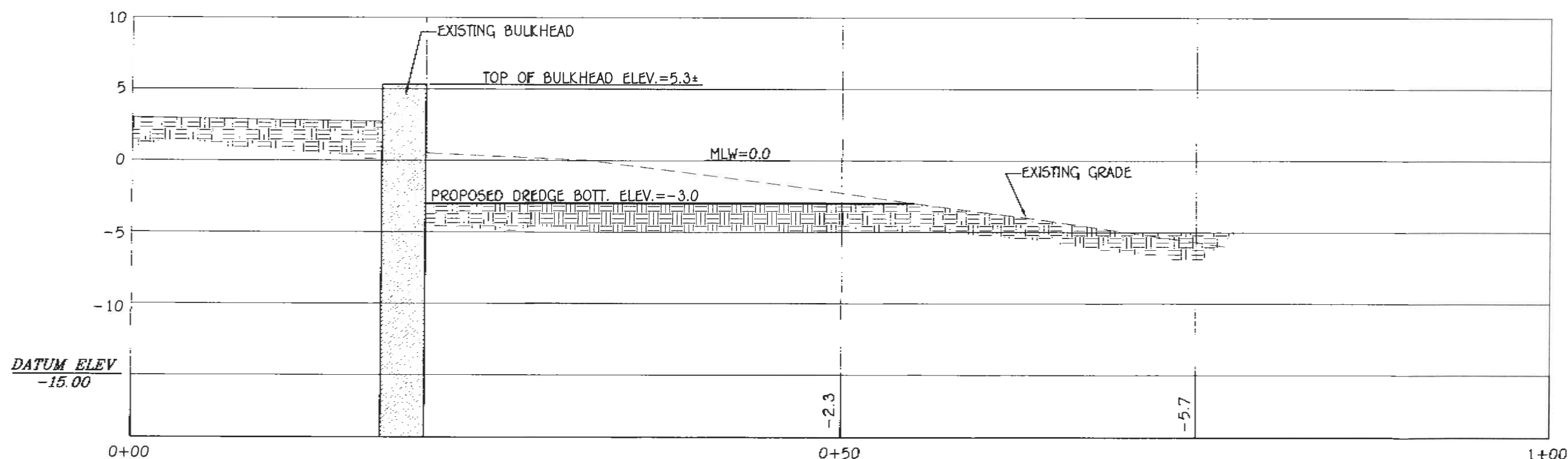
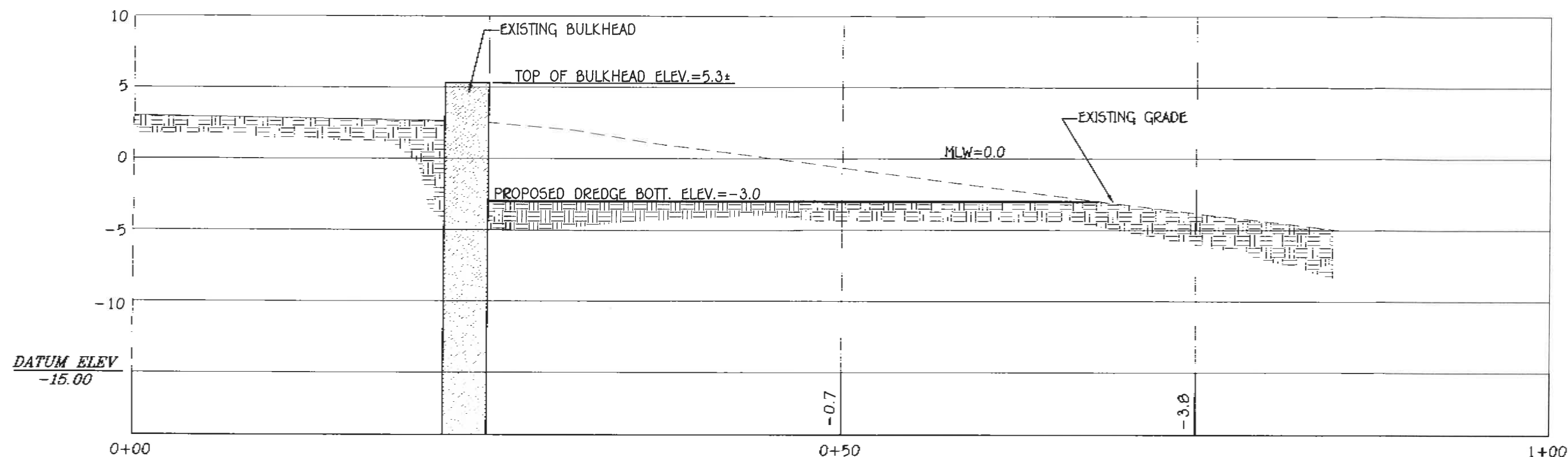
**WATCH HILL
FIRE DISTRICT**
 151 BAY STREET
 WESTERLY RI
 A.P. 185
 LOT 31-1

TITLE
**CROSS
SECTIONS**

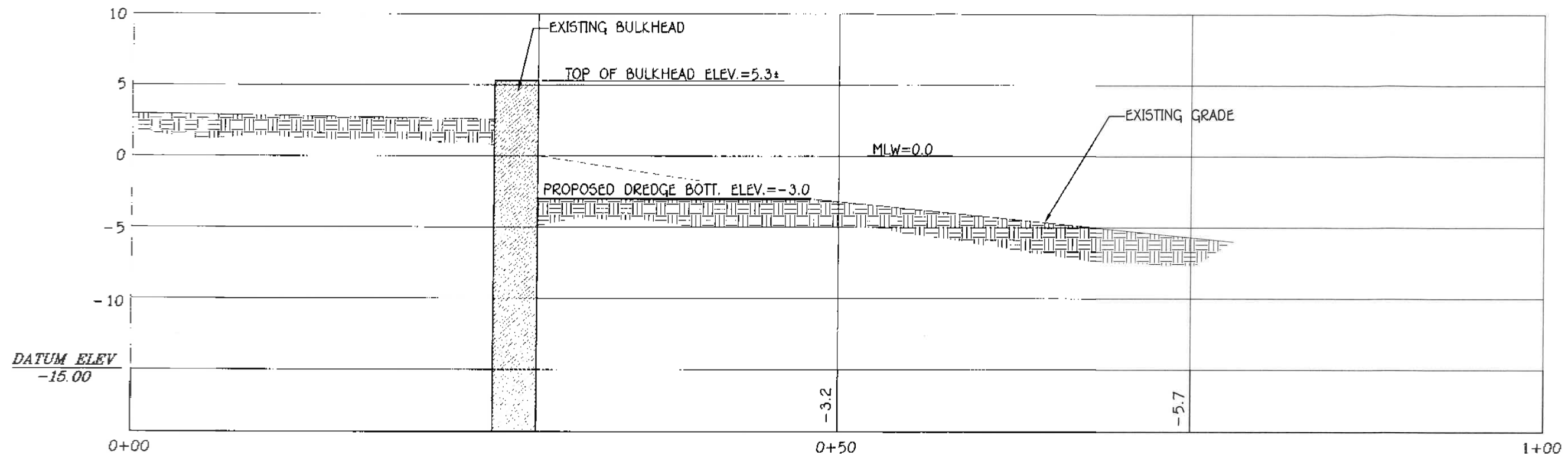
REVISIONS		
No.	Description	DATE

DESIGNED BY: AAN
 DRAWN BY: AAN
 CHECKED BY: AAN
 DATE: OCTOBER 20, 2022
 PROJECT No.: 22-003
 Scale: None

**SHT. 7
OF 10**

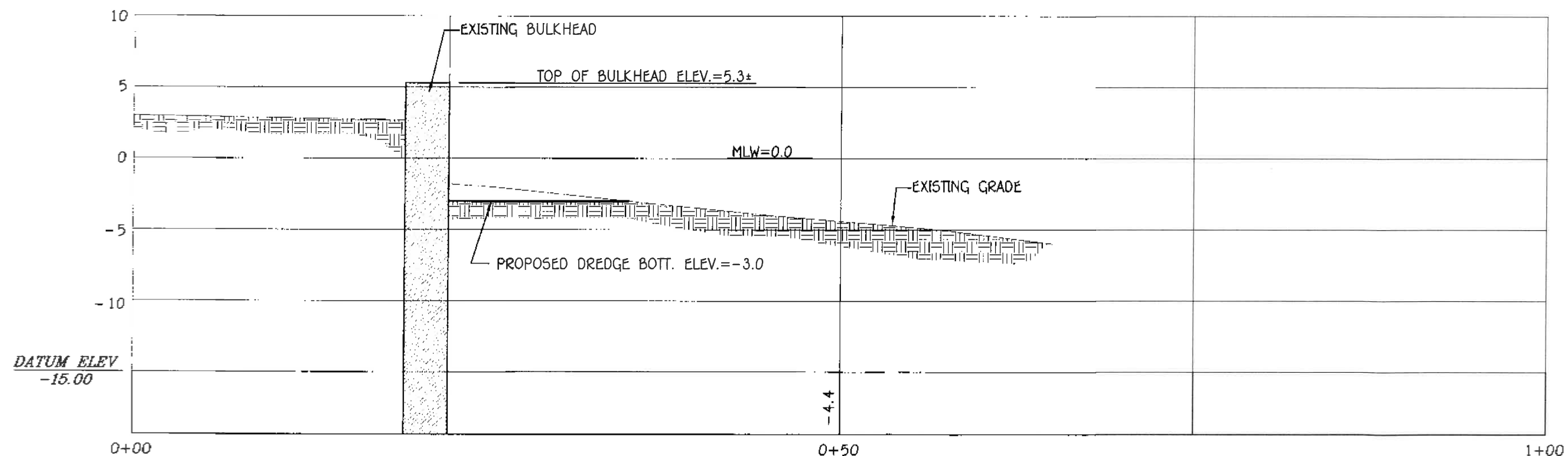


CROSS SECTION F-F'
 SCALE: 1/8"=1'



CROSS SECTION G-G'

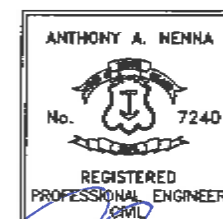
SCALE: 1/8"=1'



CROSS SECTION H-H'

SCALE: 1/8"=1'

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PROJECT:

MAINTENANCE
DREDGE AT THE
WATCH HILL
YACHT CLUB

WATCH HILL
FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE

CROSS
SECTIONS

REVISIONS

No.	Description	DATE
1	RECEIVED	NOV 01 2022

DESIGNED BY: AAN

DRAWN BY: AAN

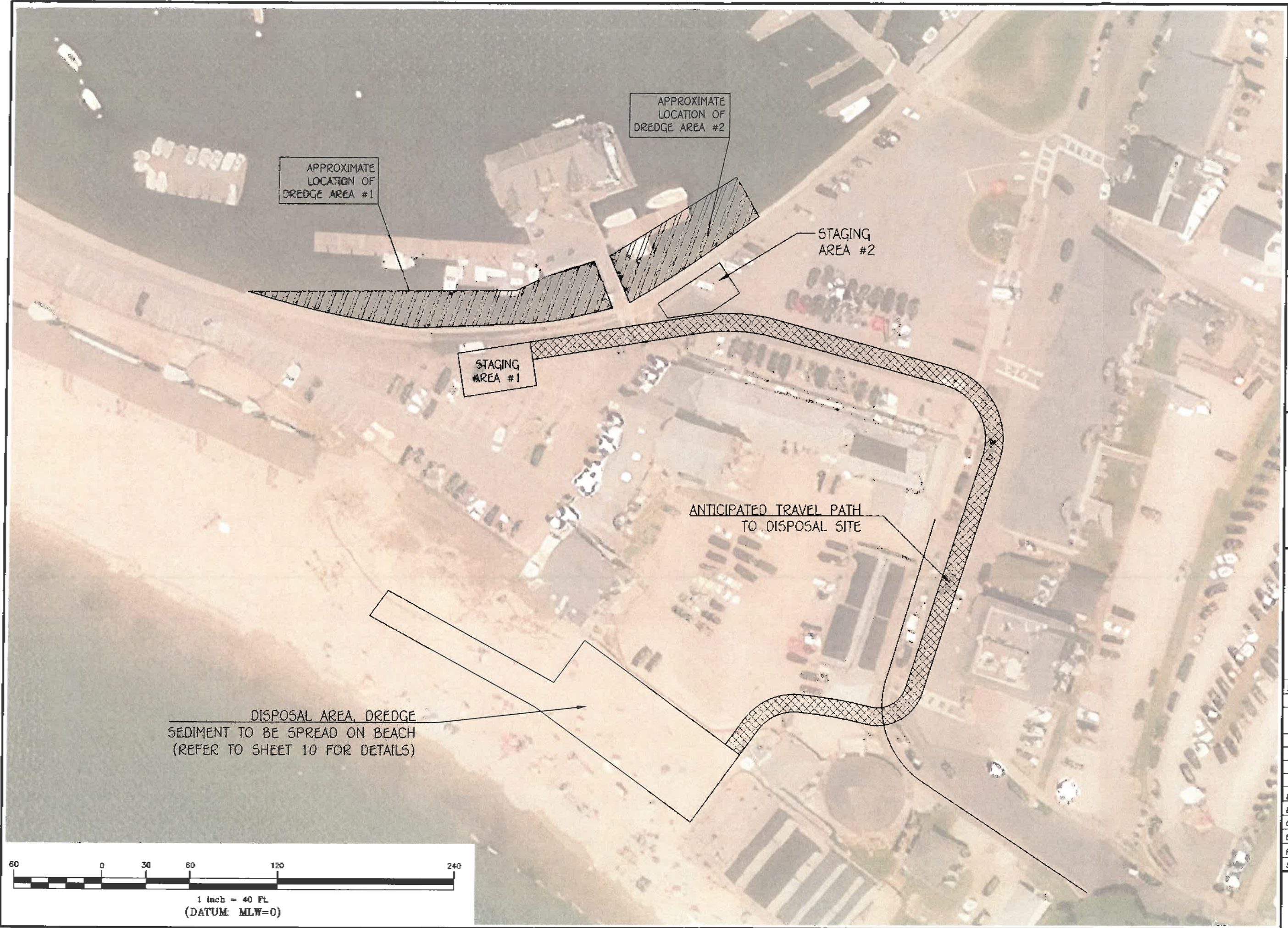
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

Scale: None

SHT. 8
OF 10





On-Site Engineering, Inc.
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3 Crestview Drive
Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED PROFESSIONAL ENGINEER
CIVIL

PROJECT: 15-91-72
MAINTENANCE DREDGE AT THE WATCH HILL YACHT CLUB

WATCH HILL FIRE DISTRICT
151 BAY STREET
WESTERLY RI
A.P. 185
LOT 31-1

TITLE
DREDGE DISPOSAL AREA PLAN

REVISIONS		
No.	DESCRIPTION	DATE
1	REVISED	NOV 01 2022
2	REVISED	NOV 01 2022
3	REVISED	NOV 01 2022
4	REVISED	NOV 01 2022
5	REVISED	NOV 01 2022

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=60'

SHT. 9
OF 10

