Rhode Island Coastal Resources Management Council
Oliver H. Stedman Government Center
Wakefield, RI 02879
(401) 783-3370

Rhode Island Department of Environmental Management
235 Promenade Street
Providence, RI 02908-5767
(401) 222-6820

APPLICATION FOR MARINE DREDGING AND ASSOCIATED ACTIVITIES pursuant to the Marine Infrastructure Maintenance Act of 1996 and the Marine Waterways and Boating Facilities Act of 2001, Chapter 46-6.1 of the Rhode Island General Laws.

PURPOSE OF APPLICATION

- [x] Application for Dredging and Disposal of Dredged Material
- [ ] Request Renewal of RIDEM Dredge Permit File # _____
- [ ] Request Renewal of CRMC Dredge Permit File # _____
- [ ] Request Modification of RIDEM Dredge Permit File # _____
- [ ] Request Modification of CRMC Dredge Permit File # _____

Agency Use Only
File Number
2022-11-010
Date Received

(Please Type or Print)

APPLICANT INFORMATION

Applicant Name: Watch Hill Yacht Club c/o Jeffrey Livingston

(NOTE: Applicant must be the owner of the property on which the activity is proposed)

Applicant Address: 1 Fort Road Telephone No. 860-573-7575

City/Town: Westerly State: RI Zip: 02891

PROJECT INFORMATION

Project Address: 1 Fort Road

City/Town: Westerly State: RI Zip: 02891

Tax Assessor's Plat(s) and Lot Number(s): Map 185, Lot 31-1

Project Consultant/Engineer Name: On-Site Engineering, Inc. c/o Anthony Nenna, P.E.

Consultant/Engineer Address 3 Crestview Drive, Westerly RI 02891

Consultant/Engineer Telephone No. 401-348-6831

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ACTIVITIES ASSOCIATED WITH THE PROPOSED DREDGE PROJECT (check all that apply)*

- ☐ Filling of Waters of the State
- ☐ Marinas – New construction or expansion
- ☒ Site Disturbances
  - __ Residential Development: six (6) or more dwellings
  - ☒ Commercial, Industrial, State or Municipal Development
  - __ Any project ≥ five (5) acres of disturbance
- ☐ Flow Alterations
- ☐ Point Source Discharge of Pollutants

GENERAL INFORMATION

Identify program and associated application number for any other RIDEM applications filed for this project

_____	Freshwater Wetlands	Application Number _____
_____	RIPDES	Application Number _____
_____	Individual Sewage Disposal System	Application Number _____
_____	Other (_____)	Application Number _____

If you have any questions, please contact the RIDEM at 222-7500 or CRMC at 783-3379.

CERTIFICATION OF APPLICANT

I hereby certify that I have requested and authorized the investigation, compilation, and submission of all the information, in whatever form, contained in this Application; that I have personally examined and am familiar with the information submitted herein; and that such information is true, accurate and complete to the best of my knowledge.

Signature of Applicant: _____ Date: 10/27/2022

Please return this completed application form and all supporting information, as indicated on the accompanying Submittal Checklist to:

Rhode Island Coastal Resources Management Council
Oliver H. Stedman Government Center
Wakefield, RI, 02879

and

Rhode Island Department of Environmental Management
Office of Technical & Customer Assistance
235 Promenade Street
Providence, RI 02908

* Water Quality Certification required for these activities pursuant to Section 401 of the CWA and the Rhode Island Water Quality Rules may be incorporated into an approval issued as part of this application.

Office Use Only:

Suitable for Public Notice _____ Date: _____

- ☐ Approved
- ☐ Denied
- ☐ Withdrawn

Watch Hill Fire District
Watch Hill, RI 02891

February 1, 2022

Watch Hill Yacht Club
Attn: Tom Donoghue
Via Email

The Watch Hill Fire District's Park Commission agrees that the sand dredged from around the Watch Hill Yacht Club as planned for the winter 2022-2023 may be returned to the Watch Hill Fire District Beaches for future use.

Please let me know if you have any questions or would like further information regarding this matter. My direct email address is bethbean@msn.com.

Sincerely,

Elizabeth W. Bean
Park Commissioner

Town of Westerly, R. I.

Town Assessor's Office 45 Broad St Westerly RI 02891
Tel (401) 348-2541 Fax (401) 348-2616

COASTAL RESOURCE MANAGEMENT COUNCIL
STEDMAN GOVERNMENT CENTER
TOWER HILL ROAD
WAKEFIELD, RI 02879

TO WHOM IT MAY CONCERN:

RECORDS AT THE ASSESSOR'S OFFICE, TOWN OF WESTERLY, RI, INDICATE THAT THE FOLLOWING OWN PROPERTY IN SAID TOWN:

NAME:	WATCH HILL FIRE DISTRICT
ADDRESS:	222 WATCH HILL RD WESTERLY, RI 02891
PROPERTY LOCATION:	151 BAY ST WESTERLY, RI 02891
PLAT/LOT:	185/31-1
LAND EVIDENCE RECORDS:	BOOK 63 PAGE 247
DATE OF ISSUE:	October 25, 2022

SINCERELY,

DAVID B. THOMPSON
TOWN ASSESSOR

TO: **Coastal Resources Management Council**
4808 Tower Hill Road Suite 3
Wakefield, RI 02879
Phone: (401) 783-3370

FROM: Building Official DATE: October 25, 2022

SUBJ: Application of: Watch Hill Yacht Club, c/o Jeffrey Livingston

Location: Westerly

Address: 1 Fort, Westerly Plat No. 185 Lot No. 31-1

To Construct: Dredge approximately 765 CY of marine sediment that has accumulated within the marina perimeter at the Watch Hill Yacht Club

I hereby certify that I have reviewed _____ foundation plan(s).
_____ plan(s) for entire structure
__X__ site plans
Titled: Emergency Dredge at the Watch Hill Yacht Club, Prepared for The Watch Hill Fire District, 151 Bay Street, Plat 185, Lot 31-1 Westerly Rhode Island October 20, 2022, prepared by On-Site Engineering, Inc.

Date of Plan (last revision): October 20, 2022

__✓__ and find that the issuance of a local building permit is not required as in accordance with Section _____ of the Rhode Island State Building Code.

____ and find that the issuance of a local building permit is required. I hereby certify that this permit shall be issued once the applicant demonstrates that the proposed construction/activity fully conforms to the applicable requirements of the RISBC.

____ and find that a Septic System Suitability Determination (SSD) must be obtained from the RI Dept. of Environmental Management.

__✓__ and find that a Septic System Suitability Determination (SSD) need not be obtained from the RI Dept. of Environmental Management.

____ and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final. The Zoning Board approval shall expire on _____.

Building Official's Signature / Date

__✓__ and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final.

Zoning Officer's Signature / Date 10/25/2022

rev. 5/11/2001

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On-Site Engineering INC.
Civil & Environmental Engineering
Registered in CT, RI & MA

October 31, 2022

Coastal Resources Management Council
Attn: Dan Goulet, P.E.
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, Rhode Island 02879

RE: Maintenance Dredge Application
Watch Hill Yacht Club
Property Address: 1 Fort Road, Westerly, RI; Plat 185, Lot 31-1
Property Owner: Watch Hill Yacht Club and The Watch Hill Fire District

Dear Mr. Goulet:

Attached herewith are plans, details and supporting documents for proposed maintenance dredging at the Watch Hill Yacht Club located at 1 Fort Road in Watch Hill. Over the past 15 years sands have been deposited and built-up at the existing bulkhead adjacent to the Watch Hill Yacht Club. This deposition of sediment can be attributed to the natural currents within the Watch Hill Cove and the close proximity to the adjacent beach dunes. In the past, the club has routinely removed the sediment build-up in 1985, 1988, 1992 and 2007, with the most recent permit being obtained under CRMC Permit No. 2007-10-055 and RIDEM Water Quality Certification File No. DP 07-069/WQC 07-003.

The sediment build-up is currently posing a significant issue with the daily boating operations at the club. The sediment is occurring between the floating docks and the existing bulkhead. The excessive sediment creates a safety concern especially when boaters/sailors leave the floating docks to go to their prospective moorings or out sailing for the day.

Dredging will occur in areas on the east and west sides of the existing Watch Hill Yacht Club. The dredging will be within the club's established Marina Perimeter and the sand removal will have no significant impact on any existing structures or coastal resources. The dredge area on the west side is approximately 12,200 s.f. and 4,200 s.f. on the east side. Site photographs are included in Exhibit 1 of this letter. The last group of photographs show the sediment build-up in 2022 and below that is a photo of the same area in 1998.

3 Crestview Drive • Westerly, RI 02891 • (401) 348-6831 • Fax (401) 315-2521 • Email: anenna@onsiteeng.com

The total anticipated dredge material was calculated to be approximately 765 c.y. This material is consistent with previous dredging operations and is described as light brown fine to medium sand. When comparing the sieve analyses from the 1992 and the 2007 dredging operations, the dredge material is very similar. A sampling plan was sent to your office and approved in February 2022 with the samples taken on March4, 2022. Exhibit 2 contains the sampling plan and copies of the current sieve analysis of both the dredge material and disposal site. Exhibit 3 contains copies of the previous sieve analyses to illustrate the consistency in previous dredge operations.

The method of dredging is by mechanical means, either utilizing a hydraulic clam shell with a crane or an excavator. The material will be loaded onto a rubber track dump truck and will be hauled to the disposal site located on the adjacent beach owned by the Watch Hill Fire District. The disposal site was previously approved by both CRMC and RIDEM under the prior dredging permits. The dump truck will travel through the existing parking lot to Bay Street then travel southerly on Bay Street to a gravel driveway and onto the beach area. This travel path is illustrated on Sheet 9 of the submitted plan set. The dredge material will be stockpiled and once de-watered will be spread onto the beach area. The material will be spread above the mean high-high waterline. There is no evidence of any eel grass, shellfish or any other aquatic resources that may be negatively impacted from the dredging operations.

Thank you for your consideration with this application, if you have any questions regarding this application, please feel free to call me at 401-348-6831.

Sincerely,

Anthony A. Nenna, P.E.
President

Attachments

EXHIBIT 1

SITE PHOTOGRAPHS

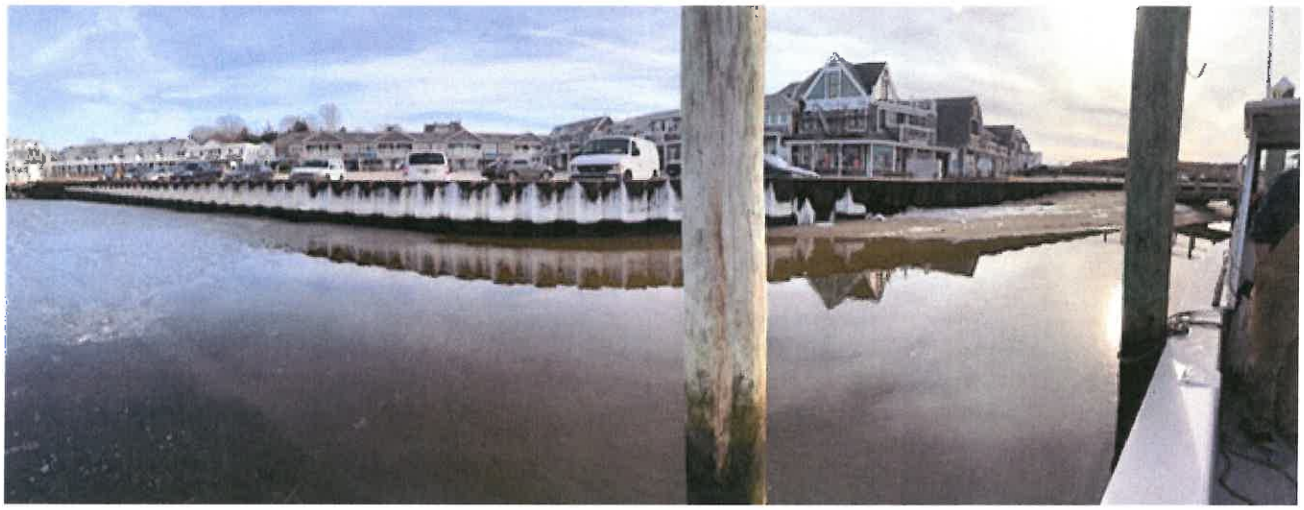

Photo 1: Panoramic Photo of East Side of Watch Hill Yacht Club.

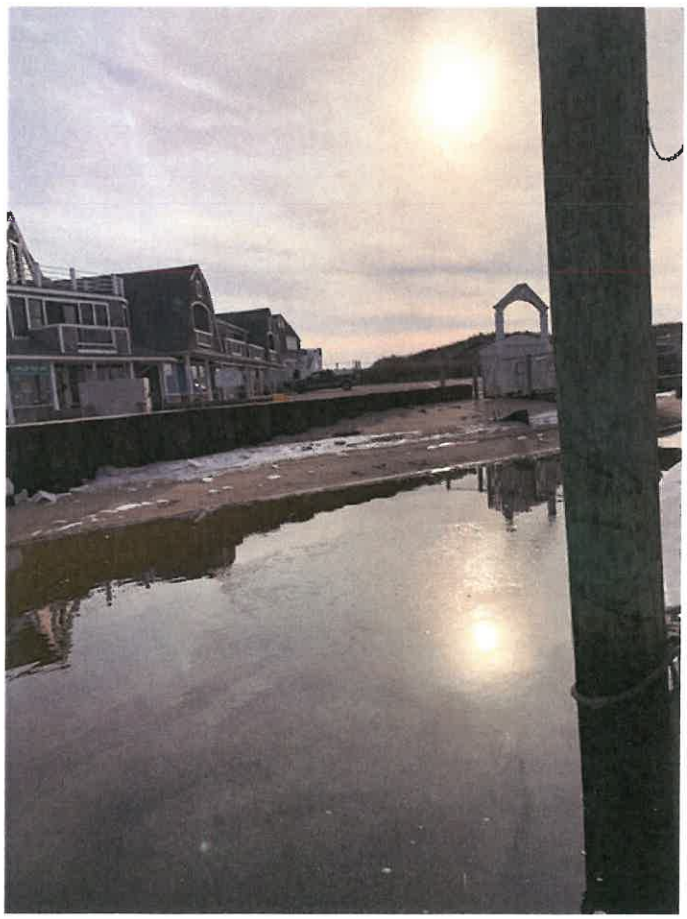

Photo 2: East Side of Watch Hill Yacht Club at Mean Low Water.

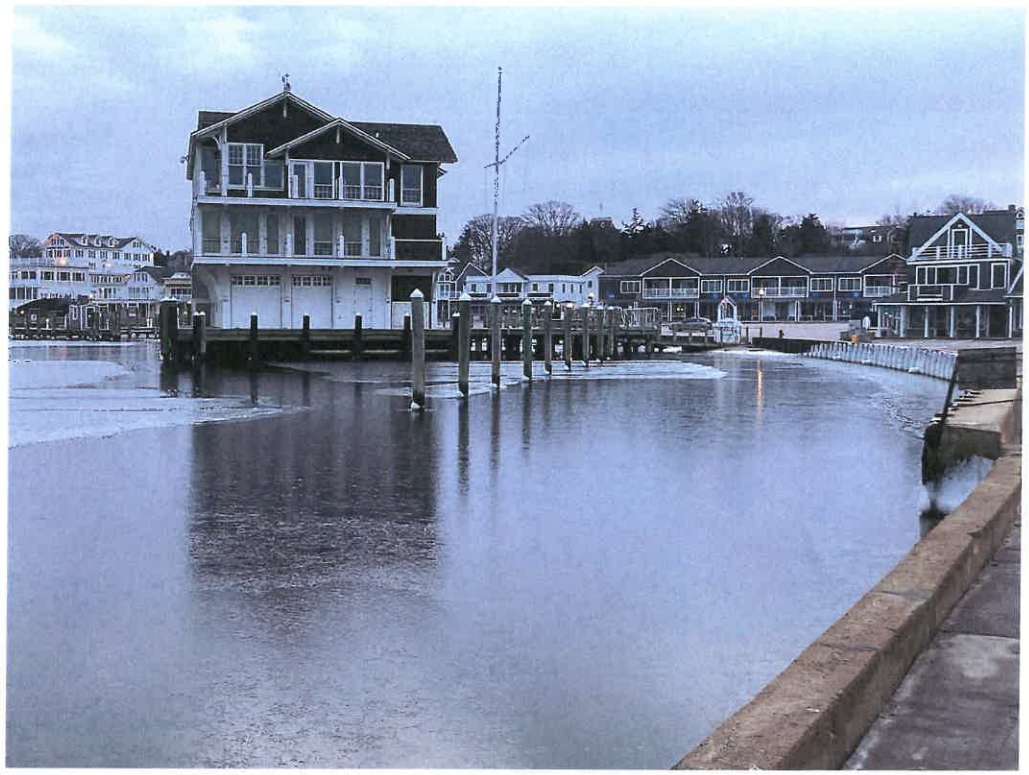

Photo 3: West Side of Watch Hill Yacht Club in Area of Proposed Dredging.

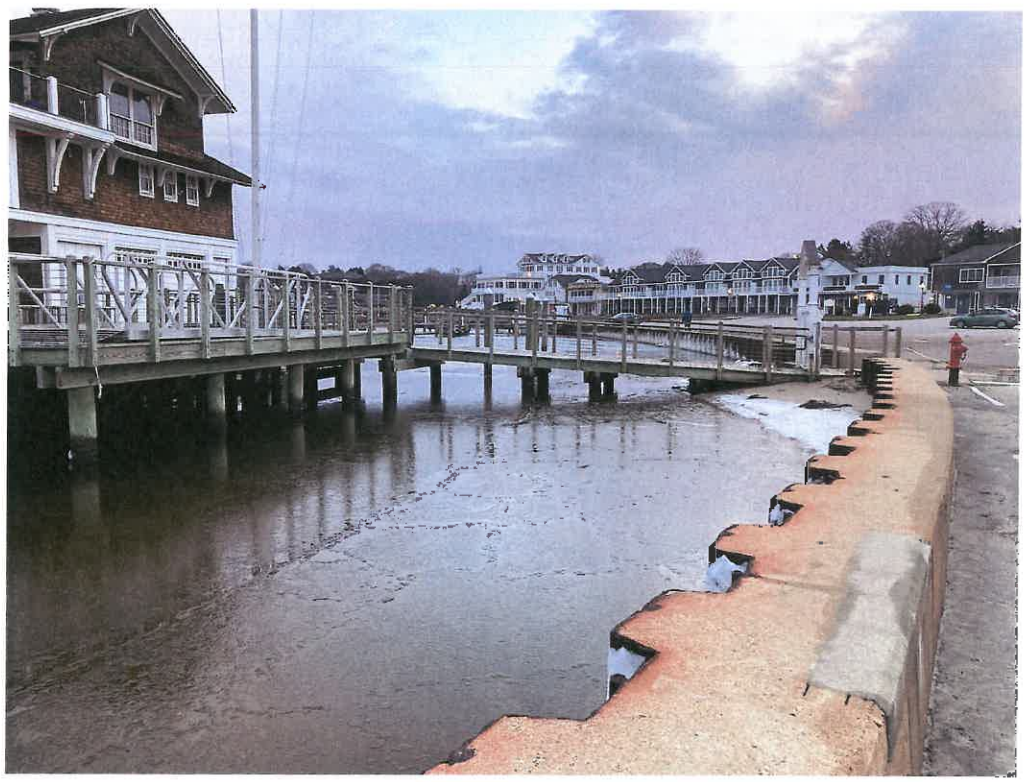

Photo 4: West Side of Watch Hill Yacht Club at Mean Low Water.

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

SOP Number: WR-GNUWW-1
Effective Date: 3/11/09
Revision No. 5
Last Revision Date: 3/11/09
Page No. 1

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 8½" 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
- ☐ N/A 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	☒<10% silt/clay	☐	☐	☐	☐	☐		
% Moisture	☐<25%	☐	☐	☐	☐	☐		
TPH	☐ND	☐	☐500 mg/kg	☐500 mg/kg	☐2500 mg/kg		SW 8015C	100 mg/Kg
SVOC		☐	☐Table 2[3]	☐Table1[1]	☐Table1[2]		8270 SIM	10 ug/Kg
PCB	☐*ND	☐0.4 mg/kg	☐10 mg/kg	☐10 mg/kg	☐10 mg/kg		8082	* .02 mg/Kg
PAH		☐4.0 mg/kg					8270– Six (6) Tier 1 compounds	
Arsenic (As)	☐1.7 mg/kg	☐10 mg/kg		☐7.0 mg/kg	☐7.0 mg/kg	☐5.0 mg/L	6010,6020,7061,7062,7000, 7010	0.4 mg/Kg
Cadmium (Cd)	☐1 mg/kg	☐5 mg/kg	☐0.03 mg/L	☐39 mg/kg	☐1000 mg/kg	☐1.0 mg/L	6010,6020,7000,7010	0.07 mg/Kg
Chromium (Cr)	☐10 mg/kg	☐100 mg/kg	☐1.1 mg/L	☐390 mg/kg	☐10000 mg/kg	☐5.0 mg/L	6010,6020,7000,7010	0.5 mg/Kg
Copper (Cu)	☐10 mg/kg	☐200 mg/kg		☐3100 mg/kg	☐10000 mg/kg		6010,6020,7000,7010	0.5 mg/Kg
Lead (Pb)	☐25 mg/kg	☐100 mg/kg	☐0.04 mg/L	☐150 mg/kg	☐500 mg/kg	☐5.0 mg/L	6010,6020,7000, 7010	0.5 mg/Kg
Mercury (Hg)	☐0.5 mg/kg	☐0.5 mg/kg	☐0.02 mg/L	☐23 mg/kg	☐610 mg/kg	☐0.2 mg/L	7470,7471,7472	0.07 mg/Kg
Nickel (Ni)	☐5 mg/kg	☐50 mg/kg	☐1 mg/L	☐1000 mg/kg			6010, 6020,7000, 7010	0.5 mg/Kg
Zinc (Zn)	☐25 mg/kg	☐200 mg/kg		☐6000 mg/kg			6010,6020,7000,7010	1.0 mg/Kg
TCLP or SPLP							1311 or 1312	
Barium (Ba)						☐100 mg/L	6010, 6020	
Selenium (Se)						☐1.0 mg/L	6010, 6020, 7741, 7742	
Silver (Ag)						☐5.0 mg/L	6010, 6020	

* For each arochlor **For Beach Critera – 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: _____

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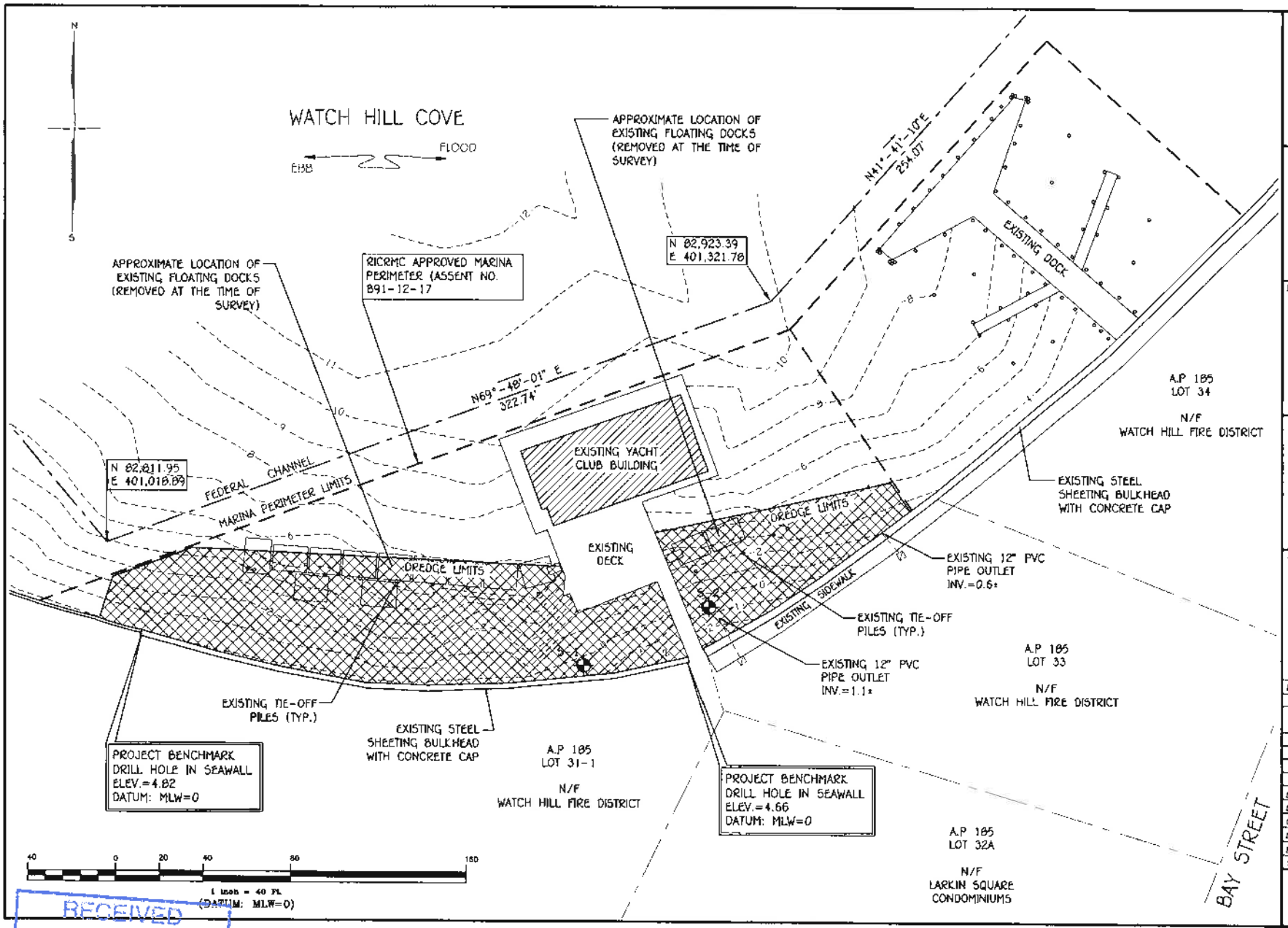


Site Engineering, Inc
3 Crestview Drive
Westerly, Rhode Island 02891
401 348-8851

ANTHONY A. NEMMA
No. 7240
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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

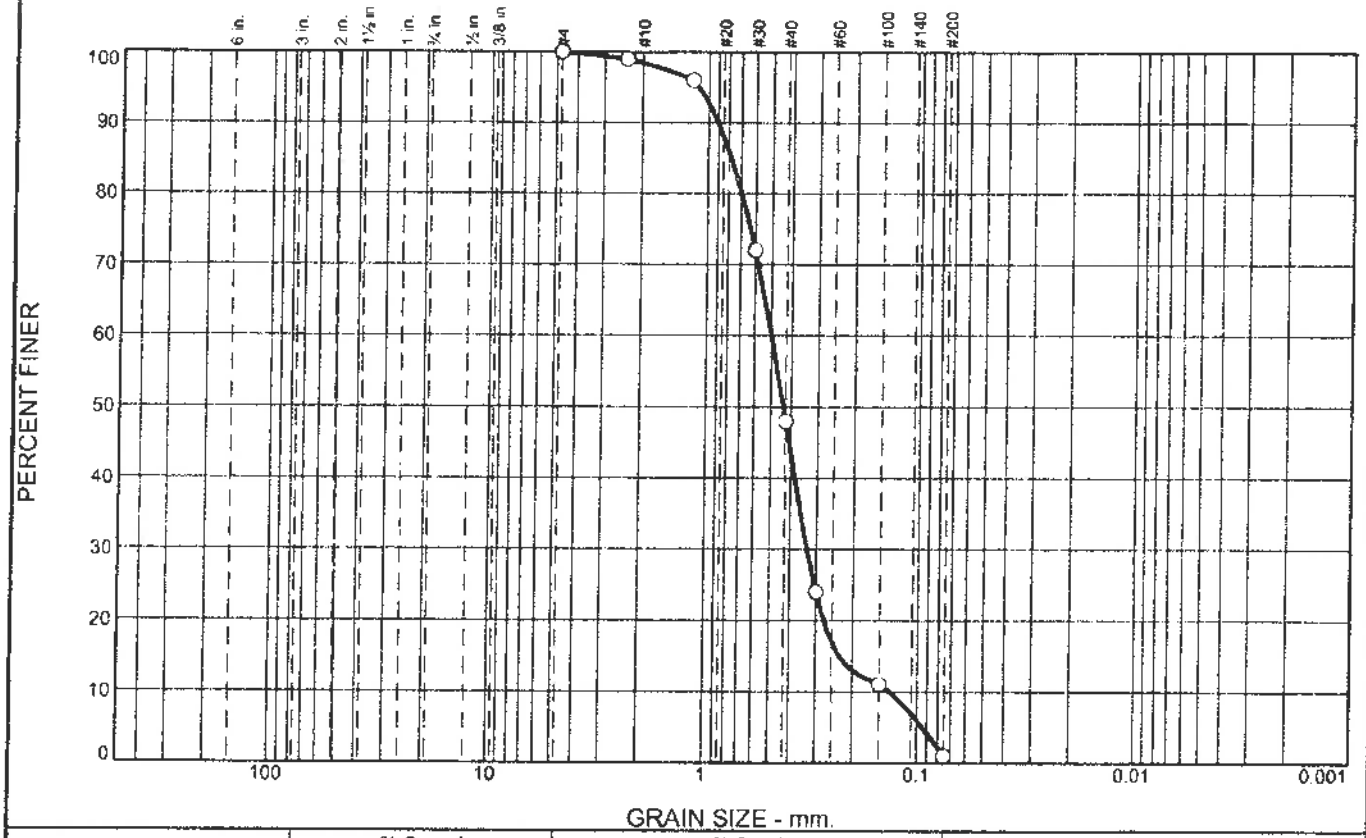
REVISIONS

No.	Description	Date

DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: JANUARY 17, 2022
PROJECT NO.: 22-003
SCALE: 1"=40'

SHT. 1
OF 1

Particle Size Distribution Report



% +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	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	96.0		
#30	72.0		
#40	48.0		
#50	24.0		
#100	11.0		
#200	1.0		

* (no specification provided)

Material Description

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

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 0.9023 D_{85}= 0.7815 D_{60}= 0.4998
D_{50}= 0.4363 D_{30}= 0.3322 D_{15}= 0.2301
D_{10}= 0.1343 C_u= 3.72 C_c= 1.64

Classification

USCS= SP AASHTO= A-1-b

Remarks

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

Location: WESTERLY, RI
Sample Number: S-1 **Depth:** N/A **Date:** 03/04/22

Geisser Engineering Corporation

Riverside, Rhode Island

Client: ON-SITE ENGINEERING
Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project No: GEC-5102 **Figure**

Tested By: RH **Checked By:** SAB

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

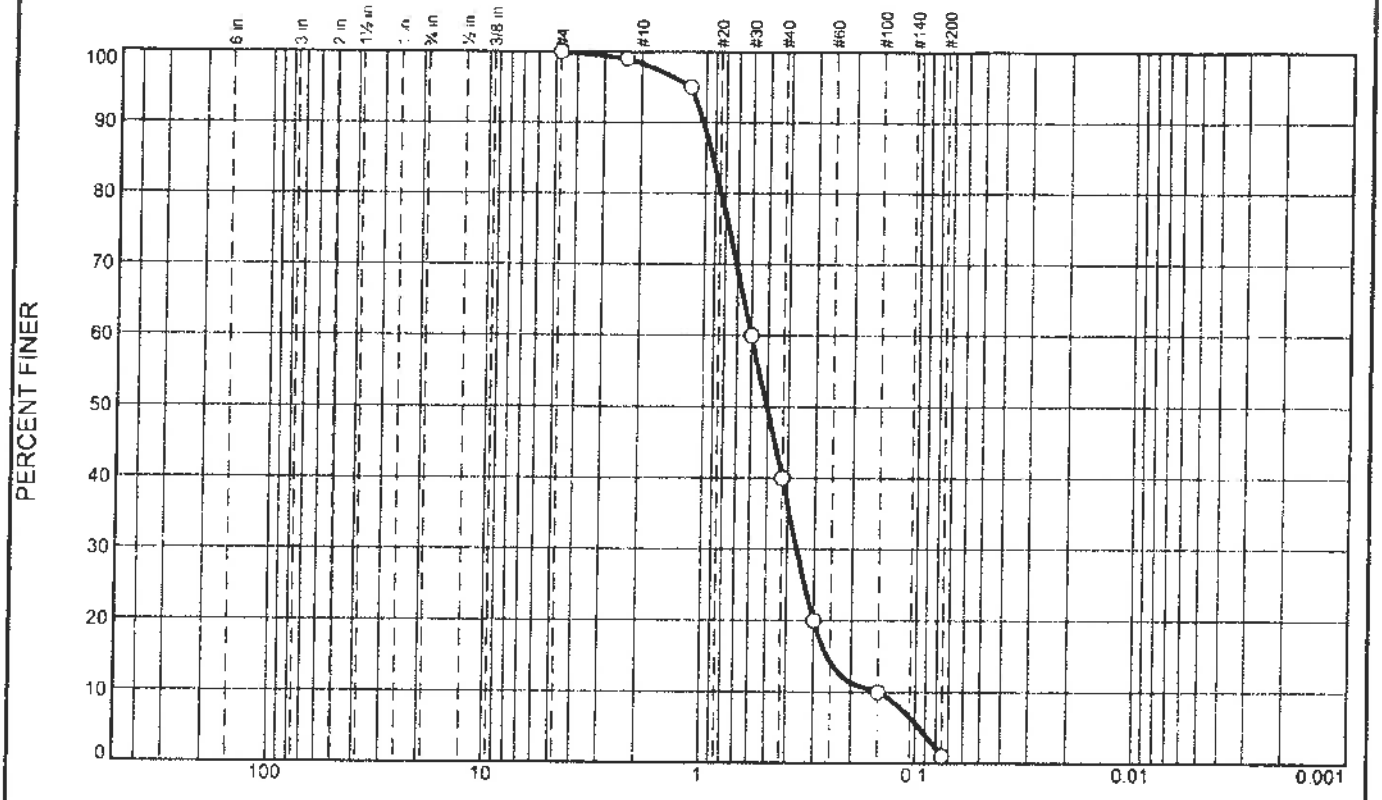
Fractional Components

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

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

D_{90}= 1.0287 D_{85}= 0.9248 D_{60}= 0.6000
D_{50}= 0.5041 D_{30}= 0.3617 D_{15}= 0.2587
D_{10}= 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

Riverside, Rhode Island

Client: ON-SITE ENGINEERING
Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project No: GEC-5102 **Figure**

Tested By: RH **Checked By:** SAB

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

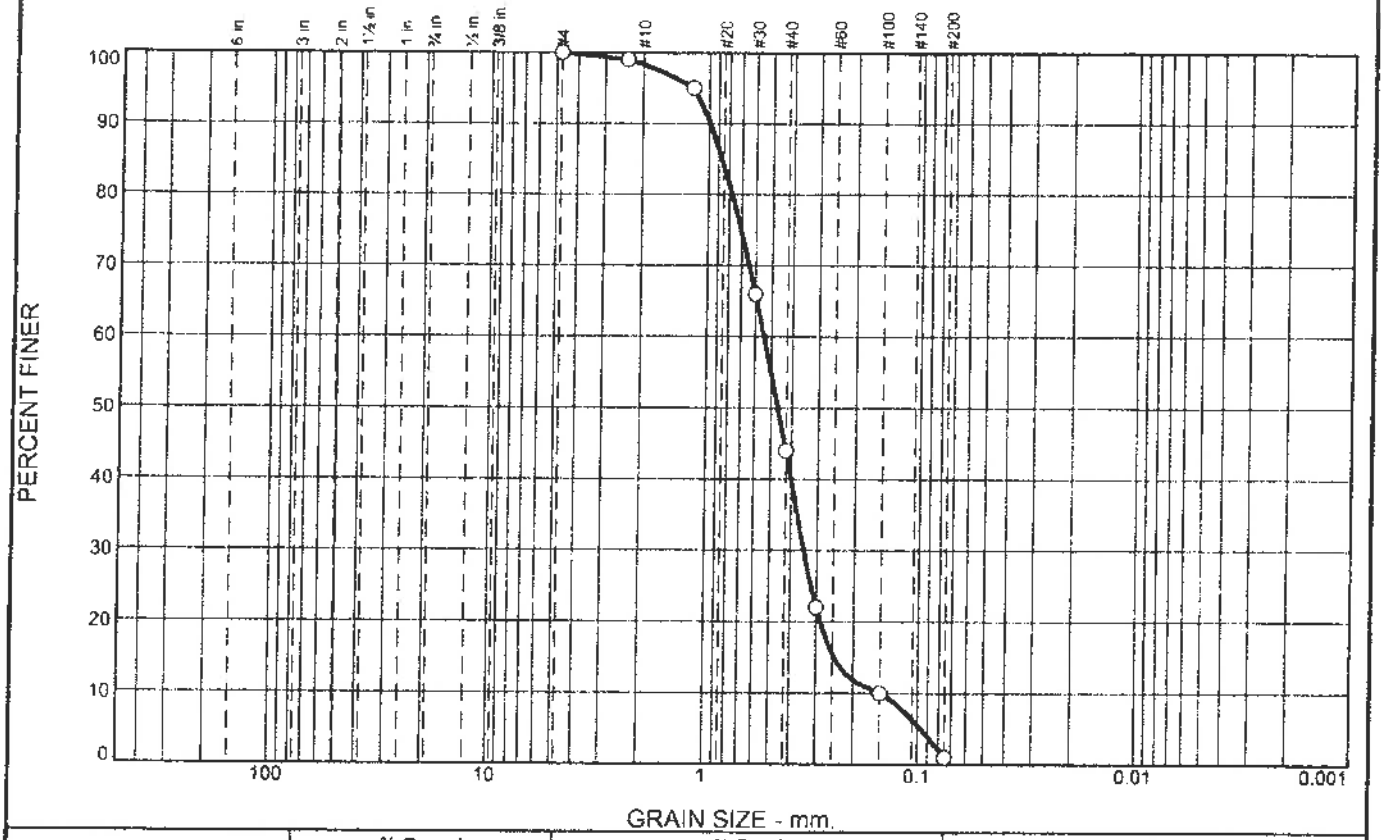
Fractional Components

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

Particle Size Distribution Report



% +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	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	95.0		
#30	66.0		
#40	44.0		
#50	22.0		
#100	10.0		
#200	1.0		

* (no specification provided)

Material Description

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

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 0.9901 D_{85}= 0.8695 D_{60}= 0.5431
D_{50}= 0.4645 D_{30}= 0.3457 D_{15}= 0.2454
D_{10}= 0.1500 C_u= 3.62 C_c= 1.47

Classification

USCS= SP AASHTO= A-1-b

Remarks

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

Location: WESTERLY, RI
Sample Number: S-3 **Depth:** N/A **Date:** 03/04/22

Geisser Engineering Corporation

Riverside, Rhode Island

Client: ON-SITE ENGINEERING
Project: WATCH HILL YACHT CLUB - WESTERLY, RI

Project No: GEC-5102 **Figure**

Tested By: RH **Checked By:** SAB

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: 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	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:

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

2. Sieve Analysis ASTM D-422:

Sieve Size	Percent Passing	
Sample Number	P-2525	P-2526
#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%

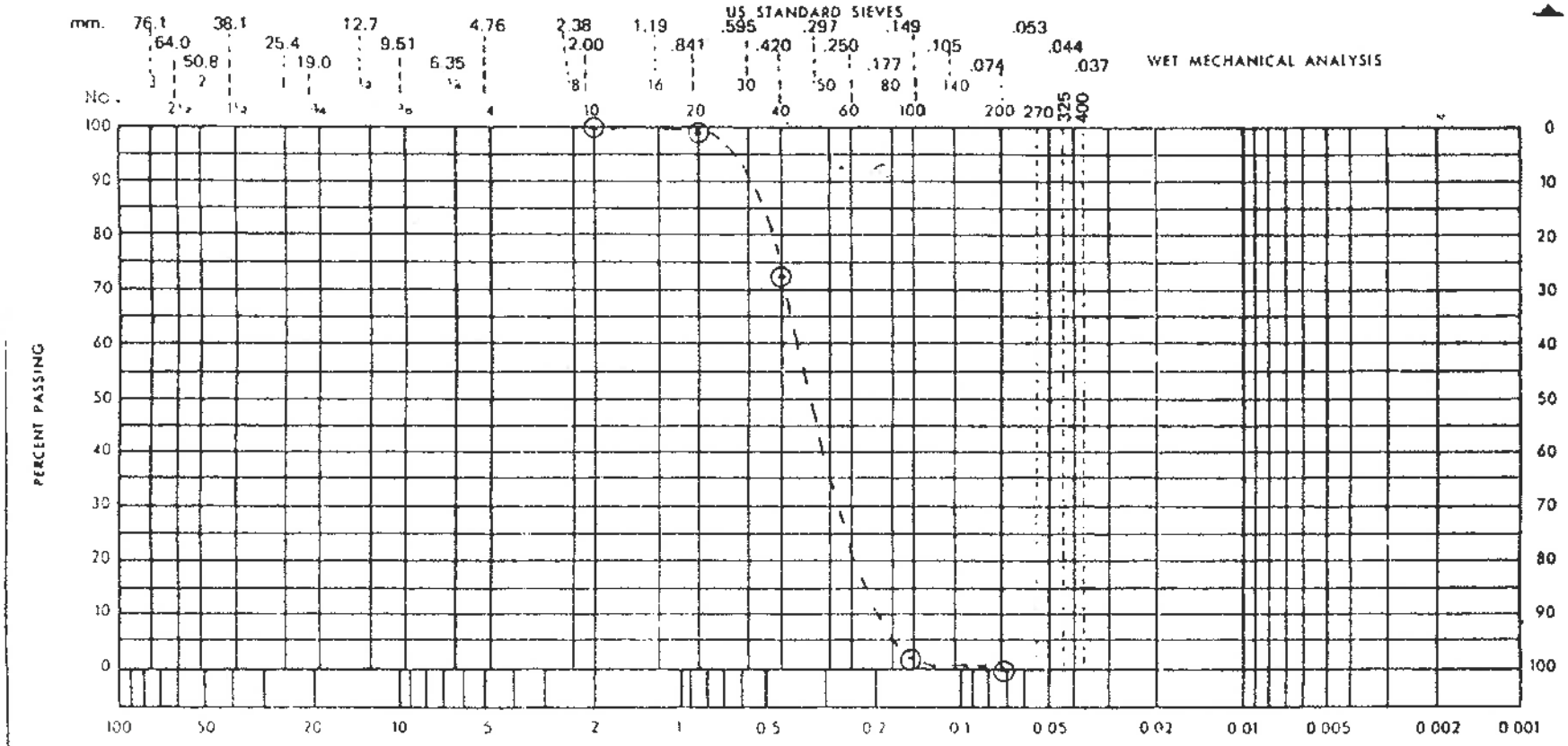
SIEVE ANALYSES
FROM 1992
DREDGING PERMIT

SIEVE ANALYSIS
(DISPOSAL AREA)
FROM 1992
DREDGING PERMIT

BRIGGS

PROJECT: Watch Hill Fire District Dredging Project

Form #: SF-SF-03-04-01-79	File #: SF-02.001.0	Proc. #: SF 3/2
Project #:	RE: Grain Size Distribution-Aggregate Grading Chart	Report #: 031192



Cobbles	Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Silt	Clay	Colloids

P-2526 Disposal Area (Beach site)

INSPECTOR: Laurendeau

DATE: 3-11-92

APPROVAL: Raymond H. Laurendeau, Director of Testing

SIEVE ANALYSIS
(DREDGE MATERIAL)
FROM 1992
DREDGING PERMIT

BRIGGS

PROJECT: Wakehill Fire District Dredging Project

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

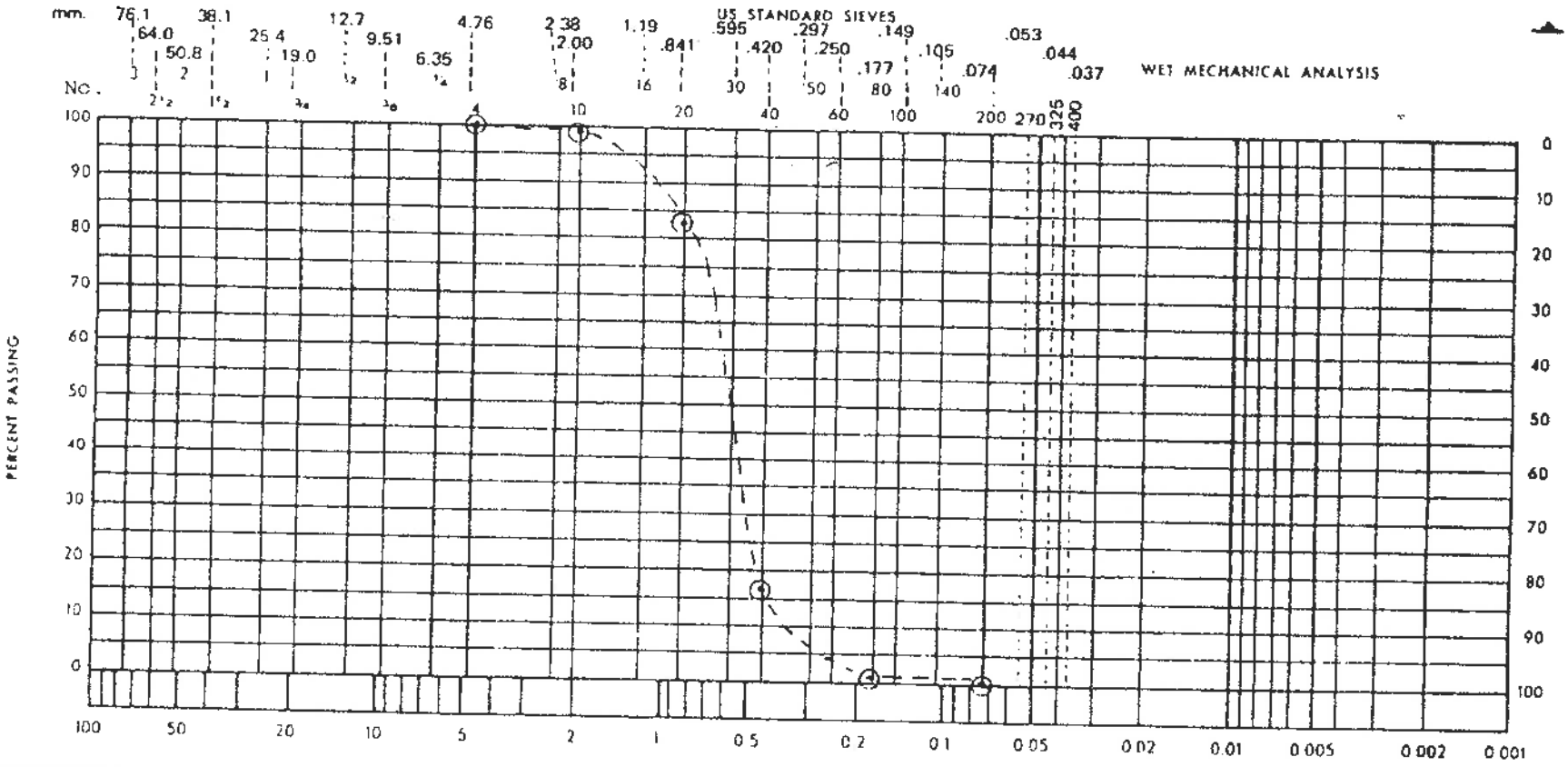
Project #:

File #: SF-02.001.0

Proc. #: SF 3/2

RE: Grain Size Distribution- Aggregate Grading Chart

Report #: 31192



Cobbles	Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Silt	Clay	Colloids

P-2525-Dredged Sample

INSPECTOR: [signature]

DATE: 3-11-92

APPROVAL: Raymond H. Laurendeau, Director of Testing

GZA GEOENVIRONMENTAL, INC.

GRAIN SIZE ANALYSIS - MECHANICAL (ASTM D422)

Project: Watch Hill Yatch 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	Cumm. wt. 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	386.9	809.2	1071.7	86.3	13.7
#100	514.9	348.0	166.9	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

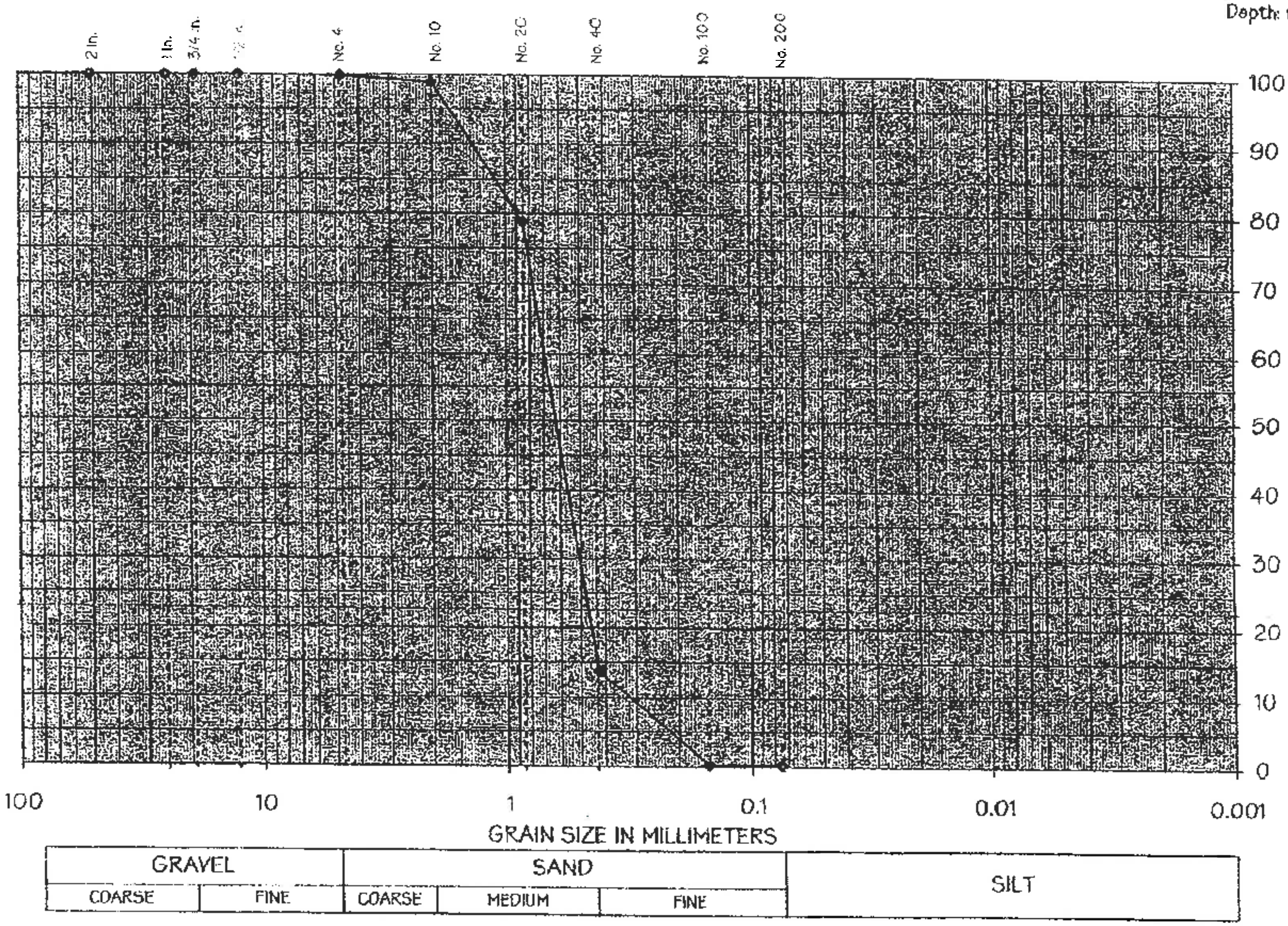
Comments:

SIEVE ANALYSIS FROM 2007 DREDGING PERMIT

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

GRADATION TEST

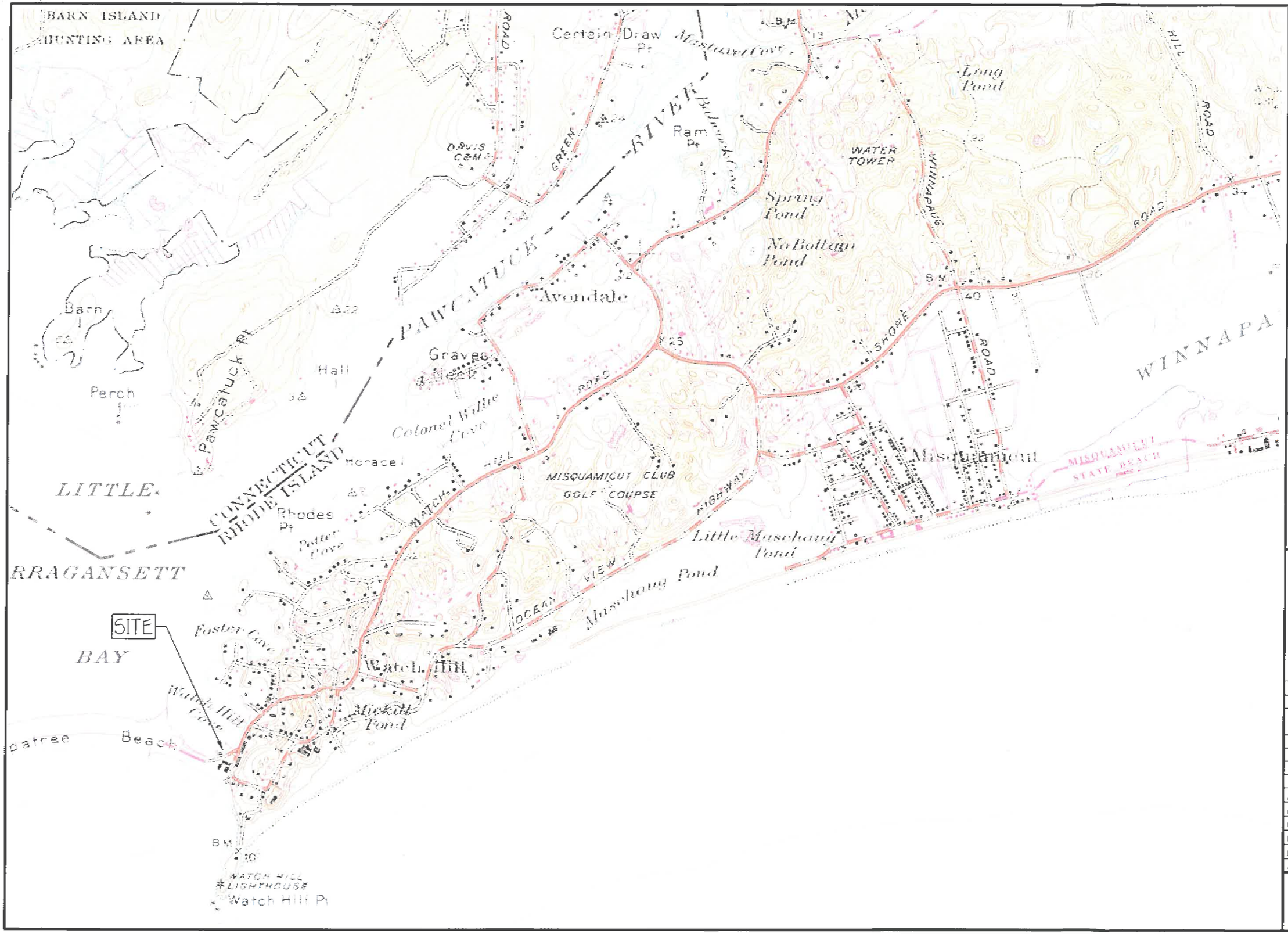
Date: 10/9/...
Tech./Reviewer: LAS
Boring/Sample: Composite
Depth: n/a



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

GZA GeoEnvironmental, Inc.

SIEVE ANALYSIS FROM 2007 DREDGING PERMIT



Civil-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
10-31-22

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

RECEIVED
NOV 01 2022
COASTAL RESOURCES MANAGEMENT COUNCIL

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

SHT. 1
OF 10

LEGEND

5.5 +	EXISTING SPOT ELEVATION/SOUNDING
----5----	EXISTING CONTOUR
———	EDGE OF POND
CF-A △	COASTAL FEATURE FLAG
———	WETLAND BUFFER (50 FT.)
⌒⌒⌒	EXISTING TREE LINE
———	PROPERTY LINE
---W---	EXISTING WATER MAIN
Ⓦ	WELL
——W——W——	PROPOSED WATER SERVICE
——UE——UE——	PROPOSED UNDERGROUND ELECTRICAL
——6——	PROPOSED CONTOUR

DIAM.	DIAMETER
TYP.	TYPICAL
P.T.	PRESSURE TREATED
BIT. CONC.	BITUMINOUS CONCRETE
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 IS 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 INORDER 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 WATER HILL FIRE DISTRICT. APPROXIMATELY 765 C.Y OF MATERIAL WILL BE REMOVED FROM THE DREDGE AREA.

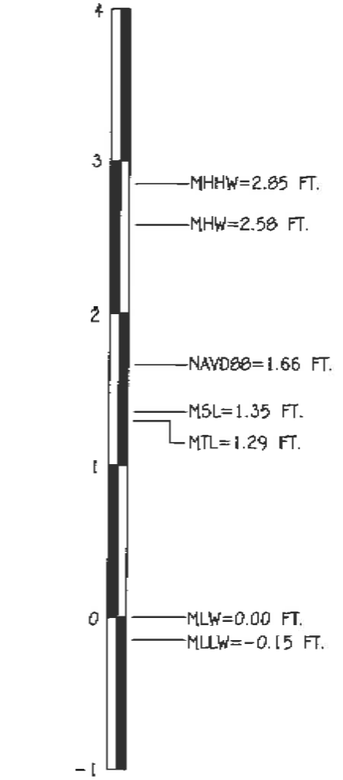
3. THE SUBJECT PROPERTY IS LOCATED ON WATCH HILL COVE PRIOR TO ENTERING LITTLE NARRAGANSETT BAY.

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

-Site Engineering, INC.
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ANTHONY A. NENNA
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CIVIL
10-31-22

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

RECEIVED NOV 01 2022

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

SHT. 2
OF 10

N

S

WATCH HILL COVE

FLOOD

EBB

APPROXIMATE LOCATION OF EXISTING FLOATING DOCKS (REMOVED AT THE TIME OF SURVEY)

APPROXIMATE LOCATION OF EXISTING FLOATING DOCKS (REMOVED AT THE TIME OF SURVEY)

RICRMC APPROVED MARINA PERIMETER (ASSENT NO. B91-12-17

N 82,923.39
E 401,321.78

N41°-41'-10"E
254.07'

EXISTING DOCK

N69°-48'-01" E
322.74'

N 82,811.95
E 401,018.89

FEDERAL CHANNEL

MARINA PERIMETER LIMITS

EXISTING YACHT CLUB BUILDING

EXISTING DECK

A.P 185
LOT 34

N/F
WATCH HILL FIRE DISTRICT

EXISTING STEEL SHEETING BULKHEAD WITH CONCRETE CAP

EXISTING 12" PVC PIPE OUTLET INV.=0.6±

EXISTING SIDEWALK

EXISTING TIE-OFF PILES (TYP.)

EXISTING 12" PVC PIPE OUTLET INV.=1.1±

A.P 185
LOT 33

N/F
WATCH HILL FIRE DISTRICT

EXISTING TIE-OFF PILES (TYP.)

EXISTING STEEL SHEETING BULKHEAD WITH CONCRETE CAP

A.P 185
LOT 31-1

N/F
WATCH HILL FIRE DISTRICT

PROJECT BENCHMARK
DRILL HOLE IN SEAWALL
ELEV.=4.82
DATUM: MLW=0

PROJECT BENCHMARK
DRILL HOLE IN SEAWALL
ELEV.=4.66
DATUM: MLW=0

A.P 185
LOT 32A

N/F
LARKIN SQUARE
CONDOMINIUMS

BAY STREET

40 0 20 40 80 160

1 inch = 40 Ft.
(DATUM: MLW=0)

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10-31-22

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

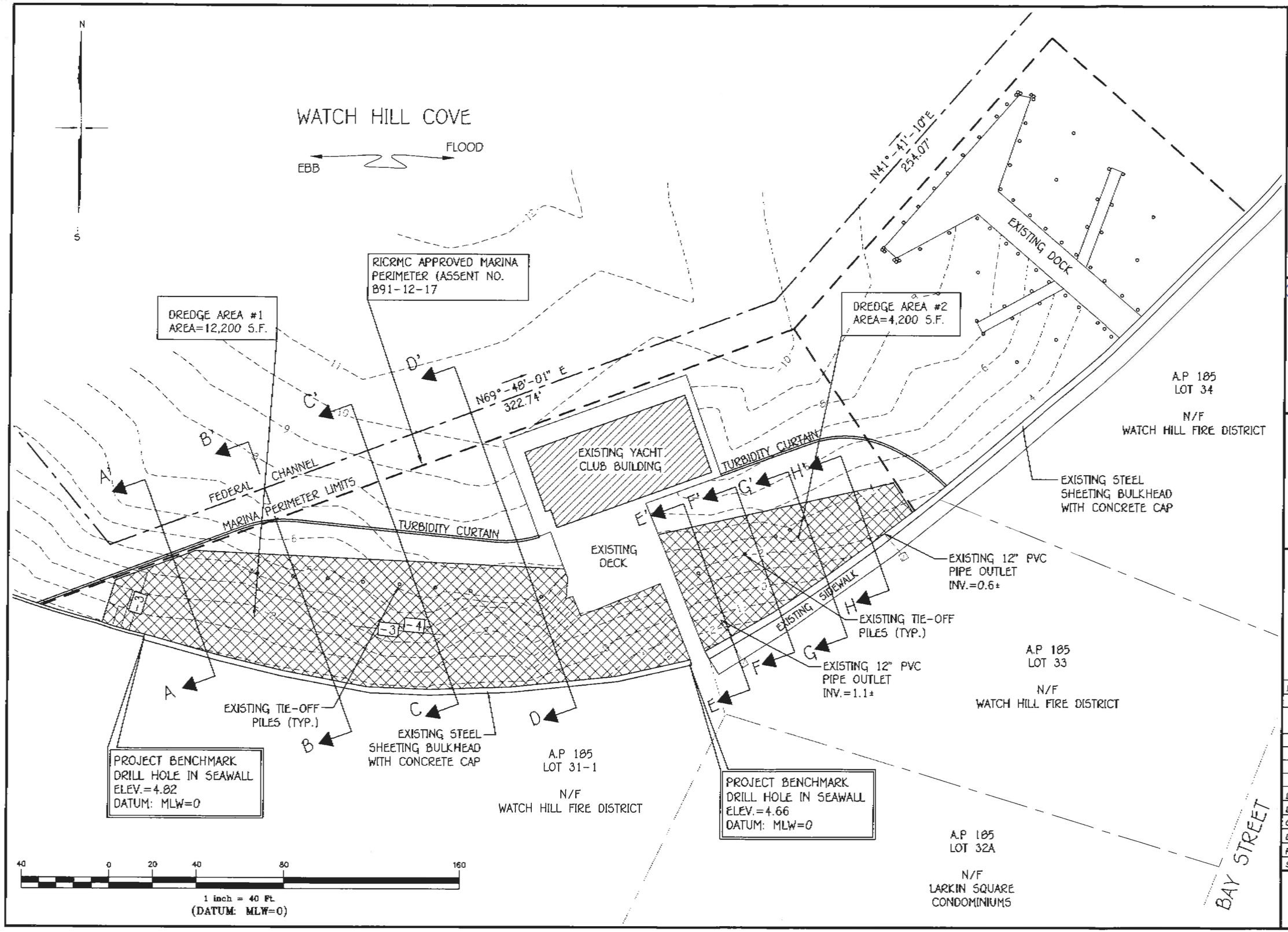
EXISTING CONDITIONS PLAN

REVISIONS		
No.	DESCRIPTION	DATE

RECEIVED
NOV 01 2022
COASTAL RESOURCES MGMT. COUNCIL

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

SHT. 3
OF 10



On-Site Engineering, INC.
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ANTHONY A. NENNA
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CIVIL
10-31-22

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

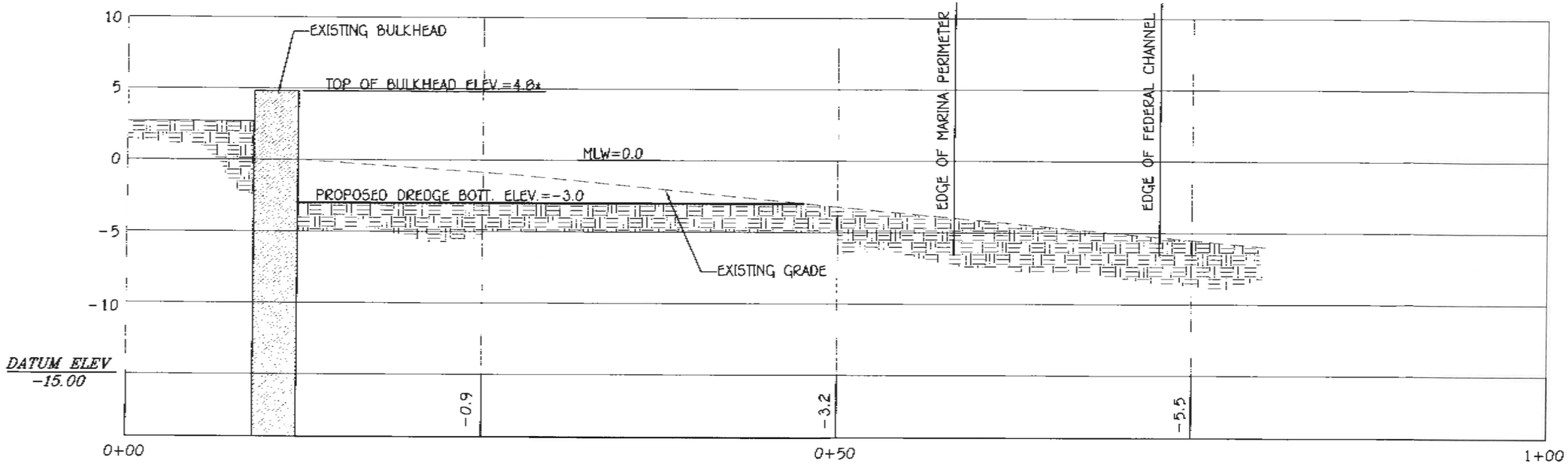
PROPOSED CONDITIONS PLAN

REVISIONS		
No.	DESCRIPTION	DATE

RECEIVED
NOV 01 2022
COASTAL RESOURCES MANAGEMENT COUNCIL

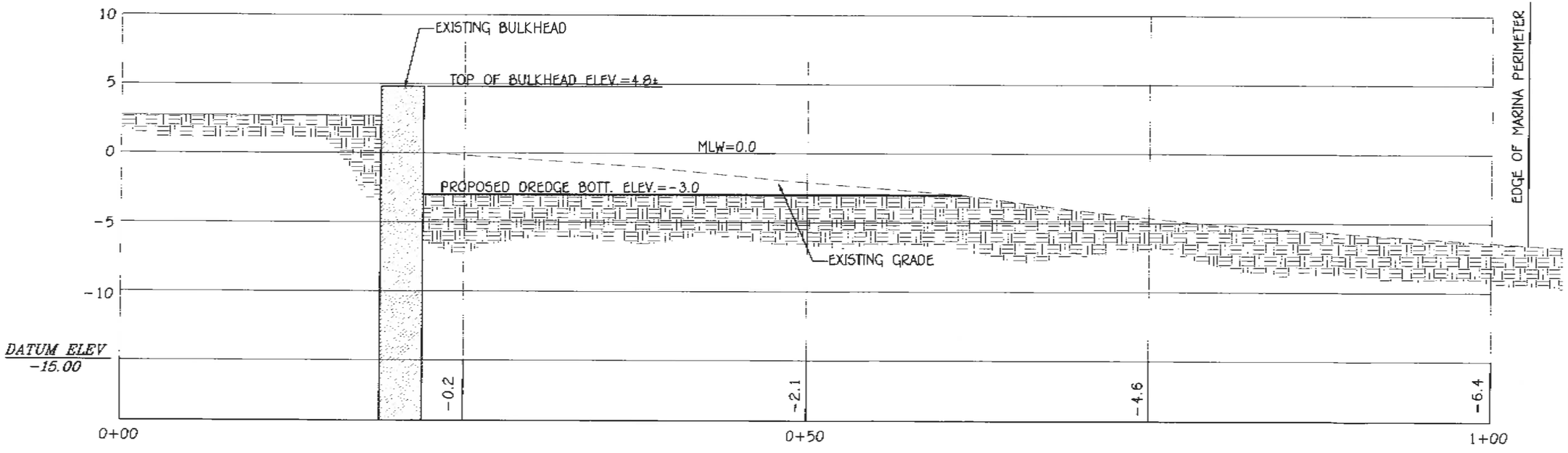
DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: 1"=40'

SHT. 4
OF 10



CROSS SECTION A-A'

SCALE: 1/8"=1'



CROSS SECTION B-B'

SCALE: 1/8"=1'

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ANTHONY A. NENNA
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CIVIL
10-31-22

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

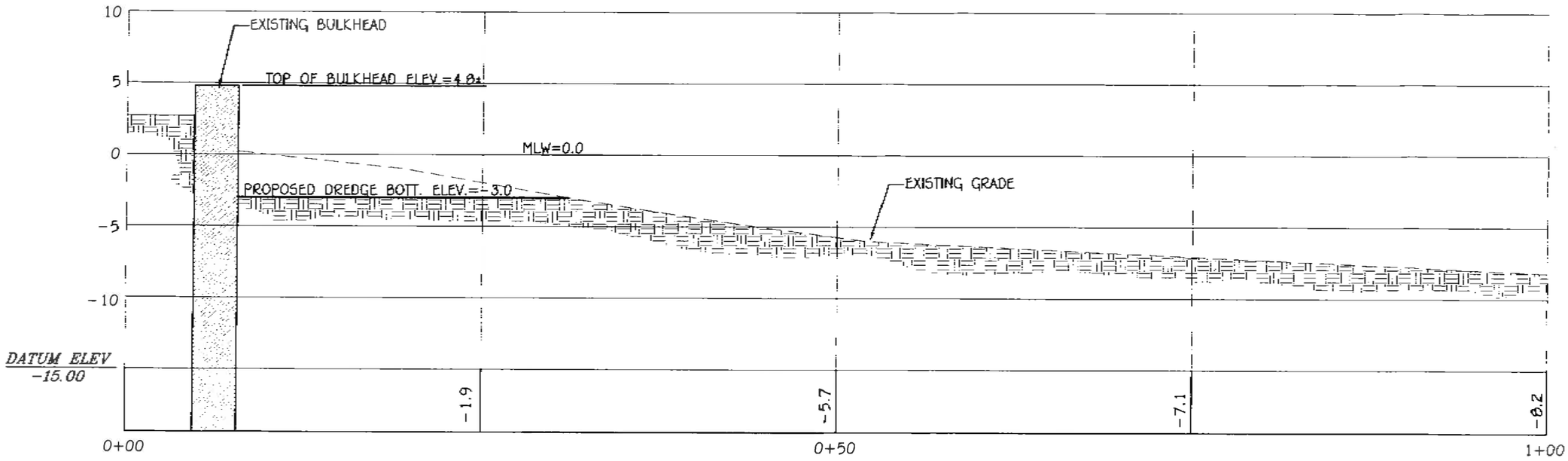
REVISIONS

No.	DESCRIPTION	DATE

RECEIVED
NOV 01 2022
CRMC

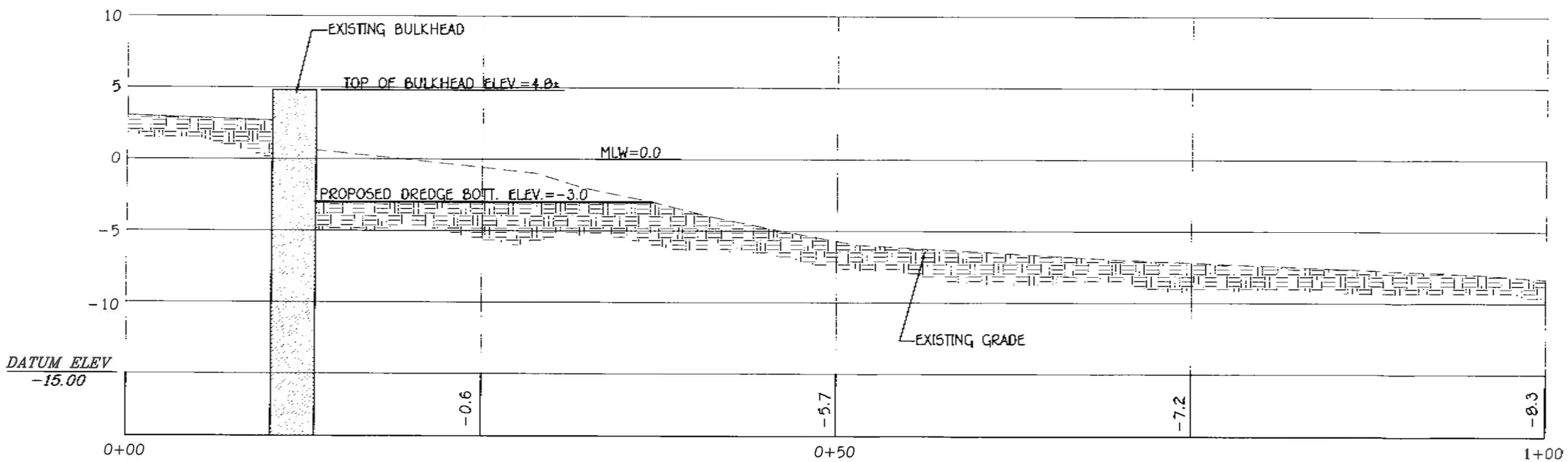
DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale.: AS SHOWN

SHT. 5
OF 10



CROSS SECTION C-C'

SCALE: 1/8"=1'



CROSS SECTION D-D'

SCALE: 1/8"=1'

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Westerly, Rhode Island 02891
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ANTHONY A. NENNA
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CIVIL

10-31-22

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

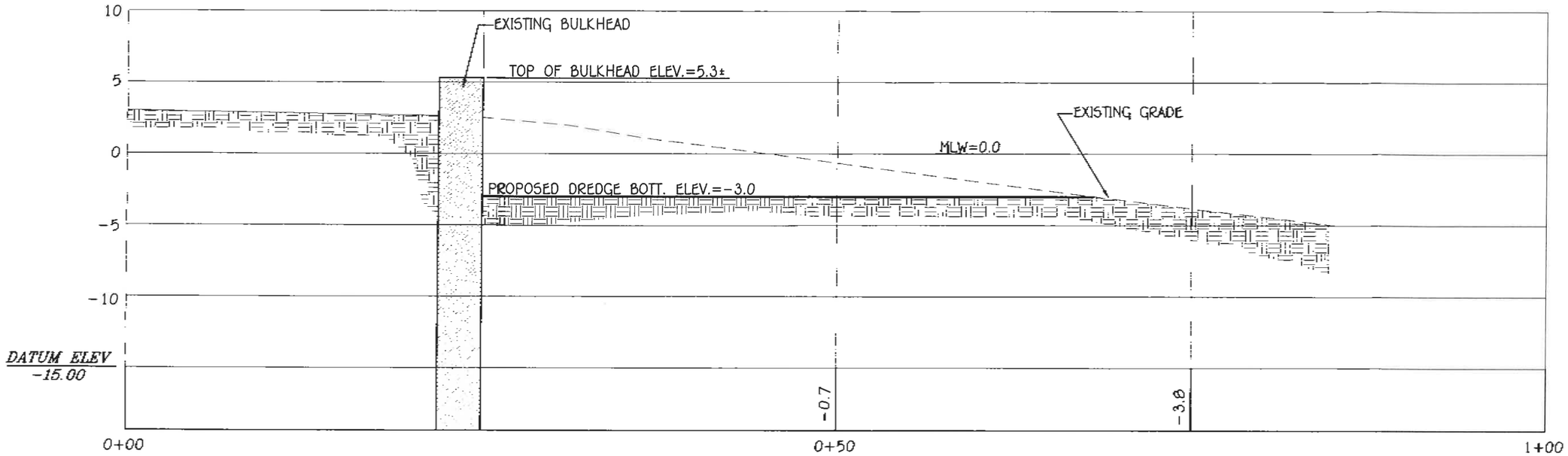
REVISIONS

No.	Description	Date

RECEIVED NOV 01 2022

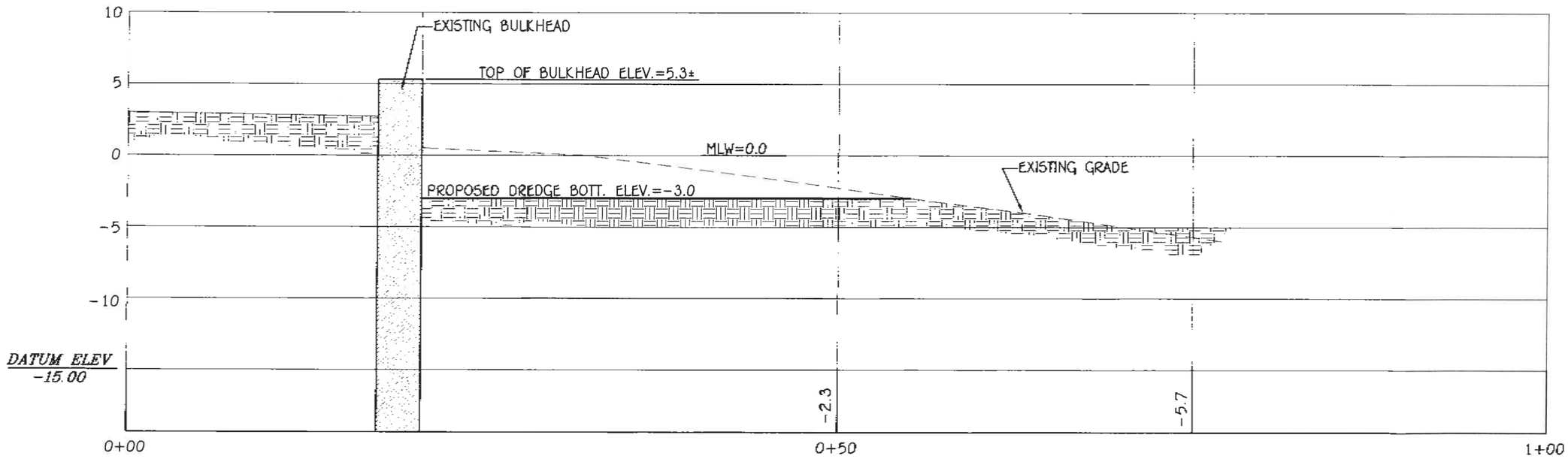
DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale.: None

SHT. 6
OF 10



CROSS SECTION E-E'

SCALE: 1/8"=1'



CROSS SECTION F-F'

SCALE: 1/8"=1'

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

ANTHONY A. NENNA
No. 7240
REGISTERED PROFESSIONAL ENGINEER
CIVIL

10-31-22

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

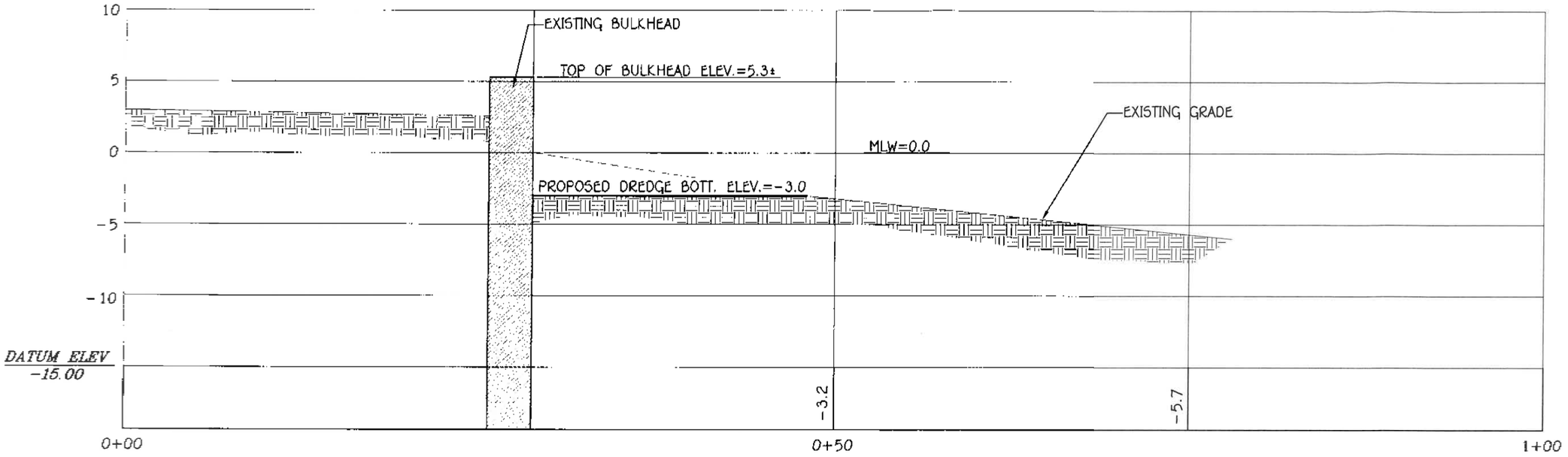
REVISIONS

No.	Description	Date

RECEIVED NOV 01 2022 COASTAL RESOURCES MANAGEMENT COUNCIL

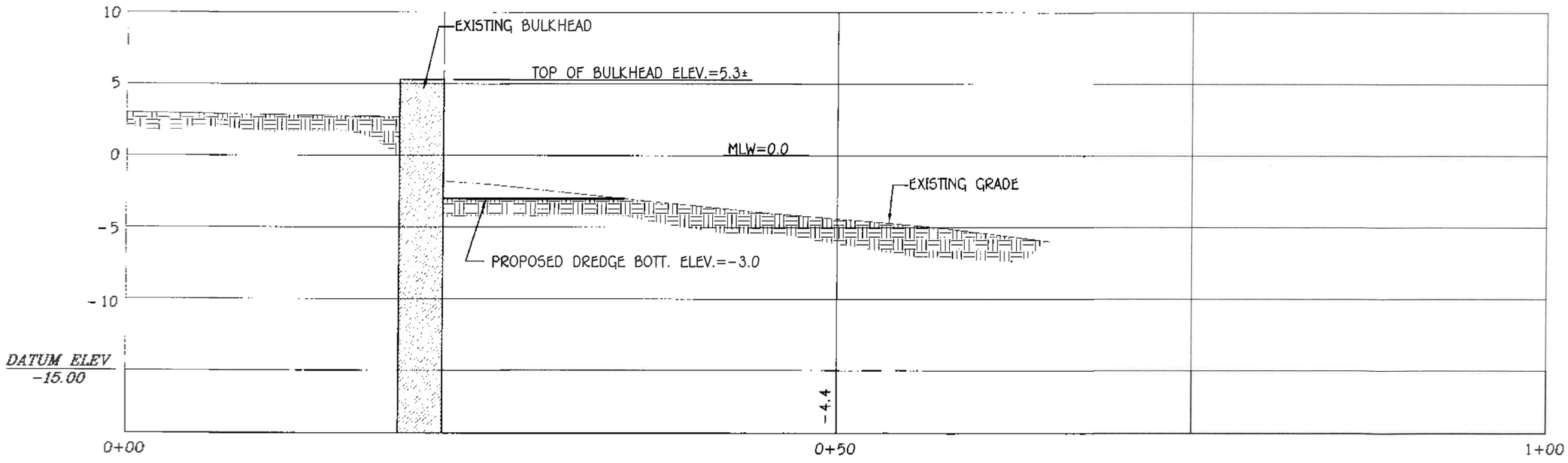
DESIGNED BY: AAN
DRAWN BY: AAN
CHECKED BY: AAN
DATE: OCTOBER 20, 2022
PROJECT No.: 22-003
Scale: None

SHT. 7
OF 10



CROSS SECTION G-G'

SCALE: 1/8"=1'



CROSS SECTION H-H'

SCALE: 1/8"=1'

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

ANTHONY A. NENNA
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CIVIL
10-31-22

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

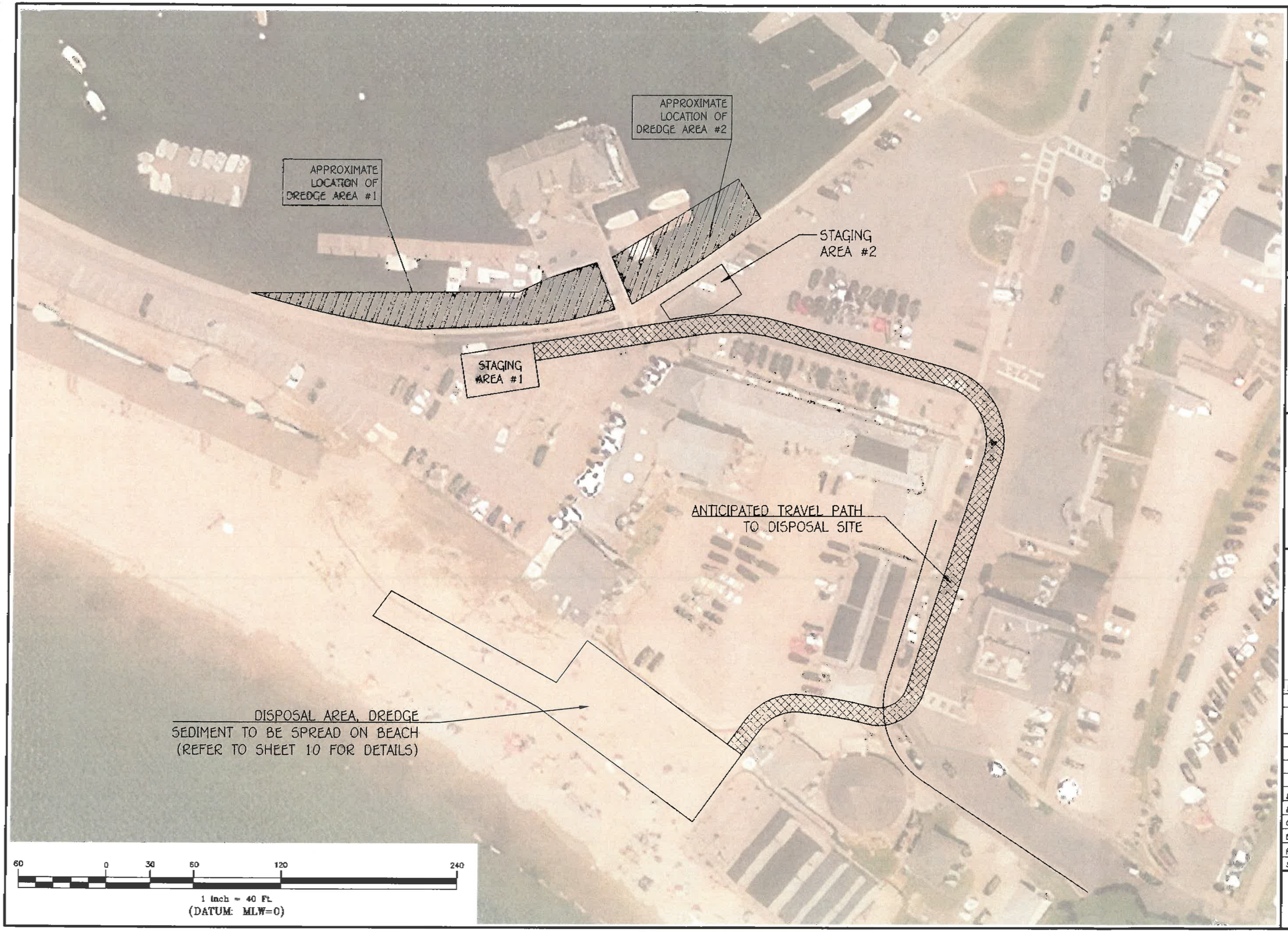
CROSS SECTIONS

REVISIONS		
No.	Description	Date

RECEIVED 10 NOV 2022 COASTAL RESOURCES MANAGEMENT COUNCIL

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

SHT. 8
OF 10



i-Site Engineering, INC.
Civil & Environmental Engineering
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Westerly, Rhode Island 02891
401-348-6831

ANTHONY A. NENNA
No. 7240
REGISTERED PROFESSIONAL ENGINEER
CIVIL
10-31-22

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

RECEIVED 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

PROJECT BENCHMARK
SPIKE SET
ELEV.=14.22
DATUM: MLW=0

BOTTOM OF EXISTING DUNE

EXISTING WALL

MLW

MHW

SF

DISPOSAL AREA WITHIN
LIMITS OF SILTFENCE

BAY STREET

N

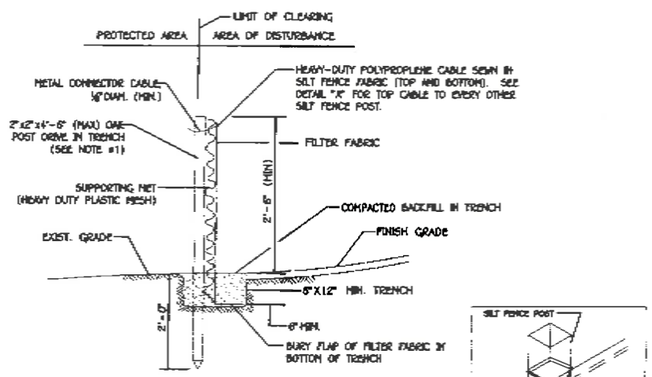
S

APPROXIMATE LOCATION OF
EXISTING CAROUSEL

EXISTING WATCH HILL
CABANAS/BEACH LOCKERS

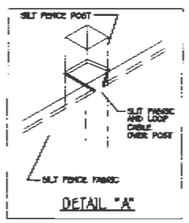
60 0 30 60 120 240

1 inch = 40 Ft.
(DATUM: MLW=0)



NOTES:

1. 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.
2. 1"x1"x4'-6" (MIN) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
3. SILT FENCE SHALL BE INSTALLED BEFORE GRUBBING OR EARTH EXCAVATION TAKES PLACE.



DETAIL "A"

SILT FENCE DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES

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

SILT FENCE MAINTENANCE

1. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
2. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE BALES IS NECESSARY IF ½ OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.

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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

DREDGE DISPOSAL SITE PLAN

REVISIONS

No.	Description	Date

RECEIVED
NOV 01 2022
COASTAL RESOURCES MANAGEMENT COUNCIL

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

SHT. 10
OF 10