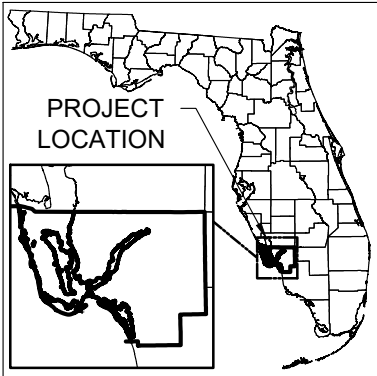


634 N YACHTSMAN DR

DREDGE PERMIT PLANS

SANIBEL, LEE COUNTY, FLORIDA

TOWNSHIP: 46S, RANGE: 21E, SECTION 02



LEE COUNTY, FLORIDA



PROJECT LOCATION
634 N YACHTSMAN DR, SANIBEL, FLORIDA 33957

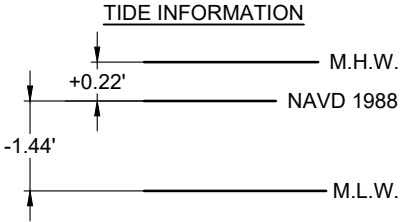
NOTES:

- COORDINATES SHOWN ARE IN FEET BASED ON THE NORTH AMERICAN DATUM OF 1983, WEST ZONE (NAD83)
- ELEVATIONS SHOWN ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- THE VERTICAL DATUMS ESTABLISHED BY DEP FOR THIS AREA ARE: MEAN HIGH WATER ELEVATION & MEAN LOW WATER ELEVATION AS DETAILED IN THE TIDE INFORMATION CHART.
- NOTE: THESE PERMIT DRAWINGS SHALL NOT BE CONSIDERED VALID FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY:

JOSEPH T. FOSTER. P.E.
FL LIC# 79708


NOT VALID UNLESS SIGNED & SEALED

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GENERAL INFORMATION	
01	COVER SHEET
02	GENERAL NOTES
PLANS & DETAILS	
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RELATIONSHIP BETWEEN NAVD 1988,
MEAN HIGH WATER, MEAN LOW WATER
TIDAL DATUM (1983 - 2001 EPOCH)

NOTE:
TIDE INFORMATION OBTAINED
FROM TIDE STATION I.D.
8725393, ST. JAMES CITY, PINE
ISLAND FL

	FOSTER CONSULTING	REVISION	DESCRIPTION	REVISION DATE	634 N YACHTSMAN DR SANIBEL, FLORIDA	DATE: 04/12/24	FILE: 240XXX	REV:
	FL PROFESSIONAL ENGINEER NO. 79708 DE LIC. # 18618 · NJ LIC. # 24GE05181200 · TX LIC. # 133648	△	ADDED MANGROVES, DOCK / WALL CALCULATIONS	06/20/24		DRAWN BY: BRT	SHEET: 01 OF 11	
	FL CERTIFICATE OF AUTHORIZATION NO. 32050 WWW.JFOSTERCONSULTING.COM P: (727) 821-1949 2963 1ST AVE. S., ST. PETERSBURG, FL 33712	△			COVER SHEET	CHECKED BY: JTF	01	
		△				SCALE: AS NOTED		
		△						
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SPECIFICATIONS

1. TURBIDITY

- 1a. Turbidity will be minimized for both magnitude and duration to the maximum extent practicable.
- 1b. Turbidity at the outside edge of the project area shall not exceed federal and state water standards.
- 1c. Management practices and suitable technology are implemented for all stationary installations including those created for drainage, flood control, or by dredging or filling; and there is no alternative to the proposed activity, including the alternative of not undertaking any change, except at an unreasonably higher cost.
- 1d. A turbidity curtain shall be used only during in-water work to minimize any potential impacts on natural resources.

2. DE-WATERING

- 2a. De-watering of dredged materials will take place on the construction barge.

3. OFFLOAD SITE

- 3a. Once materials are de-watered they will be hauled to a spoil site determined by the contractor in sealed trucks.

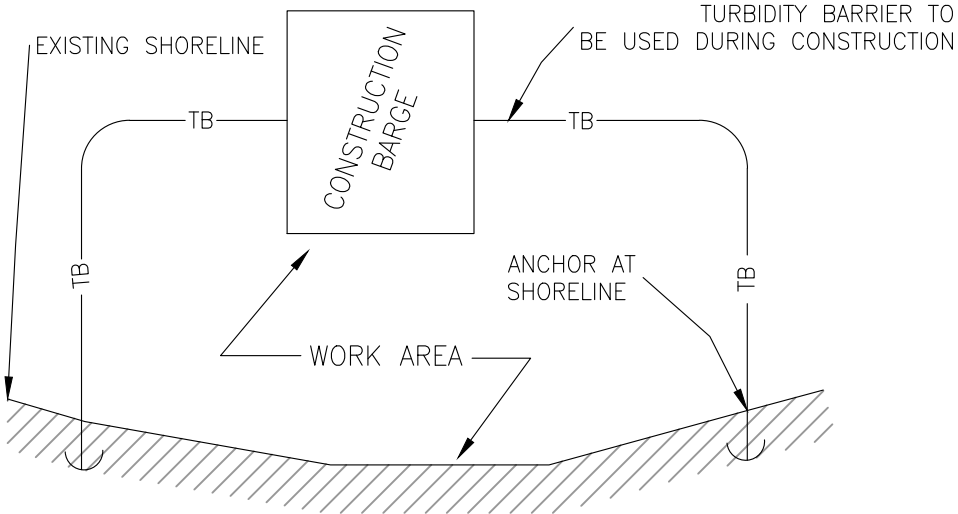
4. LOADING/UNLOADING

- 4a. Loading and unloading of equipment will take place on land at the western end of the project area.

5. The contractor shall provide access to the canal as requested and only at times when the water quality within the project area does not exceed water quality standards.

6. DREDGING METHODOLOGY

- 6b. Mechanical Dredging Methodology: Prior to dredging, a floating turbidity boom will be installed around the proposed dredge area. The boom will be secured to the shoreline on each side of the project and will maintain contact to the bottom at all times. The boom will be secured to the shoreline on each side of the project and will maintain contact to the bottom at all times. The boom shall be maintained throughout dredging activities. Two monitoring stations will be established to monitor turbidity containment. Water testing and reporting will be conducted as required per permit stipulations throughout the dredging activities. The turbidity boom shall be left in place until all suspended sediments have fallen out of the water column and the water within the area meets state water quality standards, at which point it will be removed. The dredge material will be loaded into a container on a barge using barge based excavator, and will be transported to the offloading site along the shoreline/parking lot for unloading. The offloading site will have staked silt fences and hay bales to prevent any sediment runoff during the offloading activities. The dredge material will be placed into sealed trucks using a land based excavator and will be transported to an off-site spoil site. The spoil disposal site will have staked silt fences and hay bales to prevent any sediment runoff. No discharge or return water will be allowed to reach wetlands or nearby water bodies. OR
- 6c. Hydraulic Dredging Methodology: Dredging may be performed using a hydraulic dredge pump. This hydraulic pump will then pump the slurry to sealed (watertight) containers that will be staged near the terminal end of the canal. The settling containers will be monitored continuously to ensure the capacity of the containers are not exceeded. The dredged sediments will be dewatered within the settling containers through gravity settling. A baffle system will be used to allow the water to spill over and then be piped back to the original dredge area. This process will be monitored to ensure dredged material and/or return water will not spill and enter stormwater drains. An alternative approach will be using a geotube within the container, the sediments will be filtered through the tube. The return water from the geotube would be piped back into the original dredge area. Hay bales are proposed at either end of the containers in series and surrounding any stormwater catch basin. The project areas will be left clean and returned to previous conditions.



PLAN - ALONG SHORE
DETAIL - TURBIDITY CONTROL BARRIER
NOTE: TURBIDITY BARRIERS SHALL BE MANUFACTURED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 103, 2010 EDITION

TYP. TURBIDITY CURTAIN DETAIL



LOADING/UNLOADING AREA

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634 N YACHTSMAN DR
SANIBEL, FLORIDA

GENERAL NOTES

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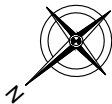
634 N YACHTSMAN DR SANIBEL, FLORIDA
SITE PLAN

DATE: 04/12/24	FILE: 240XXX	REV:
DRAWN BY: BRT	SHEET: 03 OF 11	
CHECKED BY: JTF		
SCALE: AS NOTED		03


APPROXIMATE DREDGE MATERIAL TO REMOVED:
01/07 = 324 ± CUBIC YARDS
02/07 = 844 ± CUBIC YARDS
01/08 = 578 ± CUBIC YARDS
02/08 = 513 ± CUBIC YARDS
TOTAL = 2,259 ± CUBIC YARDS



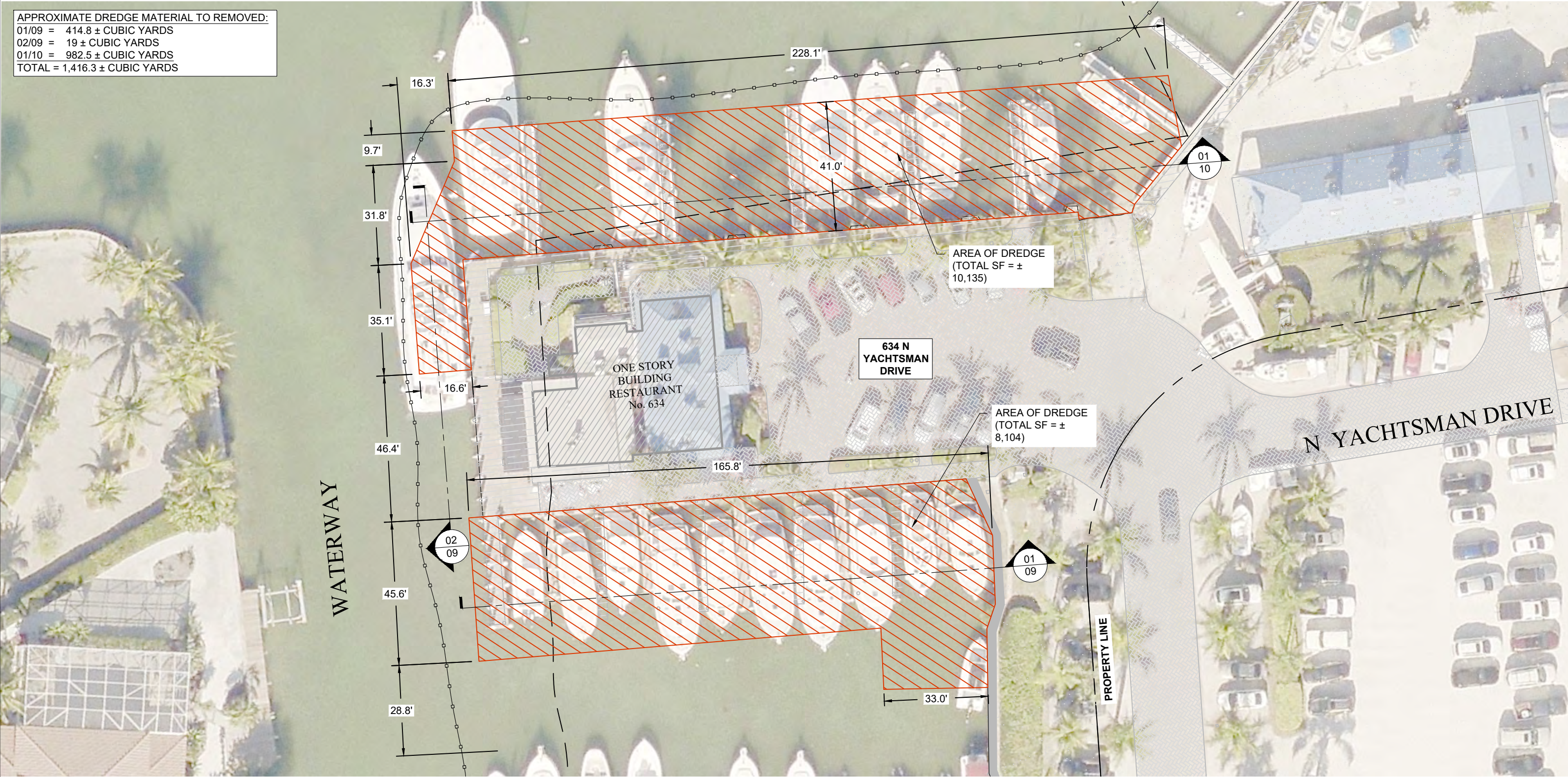
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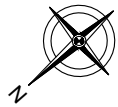
DREDGE PLAN 01
SCALE: 1" = 30'-0"

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		△				CHECKED BY:	JTF			
		△				SCALE:	AS NOTED			
		△								04

APPROXIMATE DREDGE MATERIAL TO REMOVED:
01/09 = 414.8 ± CUBIC YARDS
02/09 = 19 ± CUBIC YARDS
01/10 = 982.5 ± CUBIC YARDS
TOTAL = 1,416.3 ± CUBIC YARDS



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DREDGE PLAN 02
SCALE: 1" = 30'-0"



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634 N YACHTSMAN DR
SANIBEL, FLORIDA

DREDGE PLAN 02

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DREDGE PLAN 03
SCALE: 1" = 30'-0"



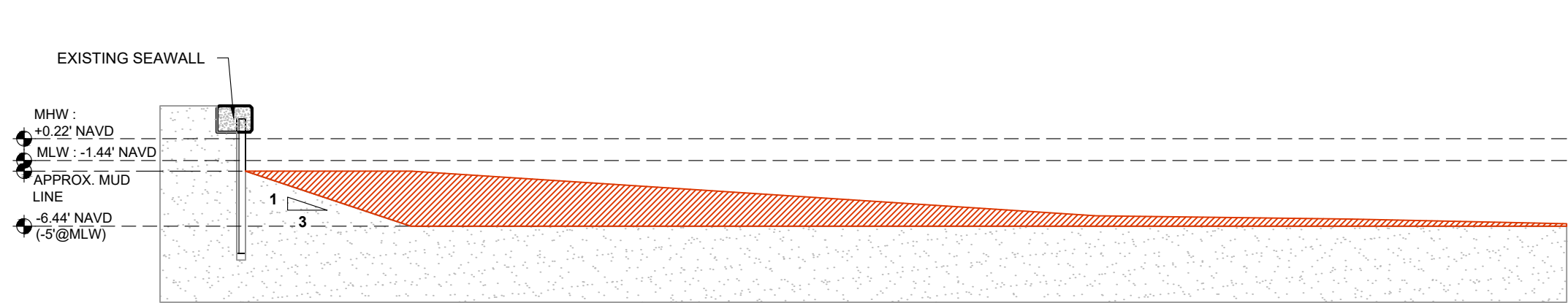
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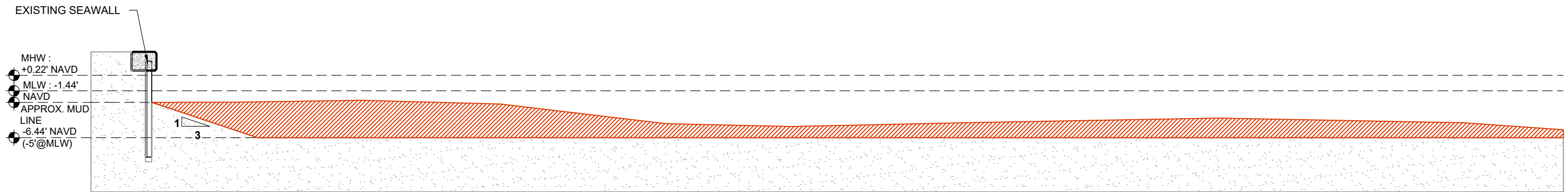
634 N YACHTSMAN DR
SANIBEL, FLORIDA

DREDGE PLAN 03

DATE: 04/12/24	FILE: 240XXX	REV:
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1 DREDGE SECTION



2 DREDGE SECTION

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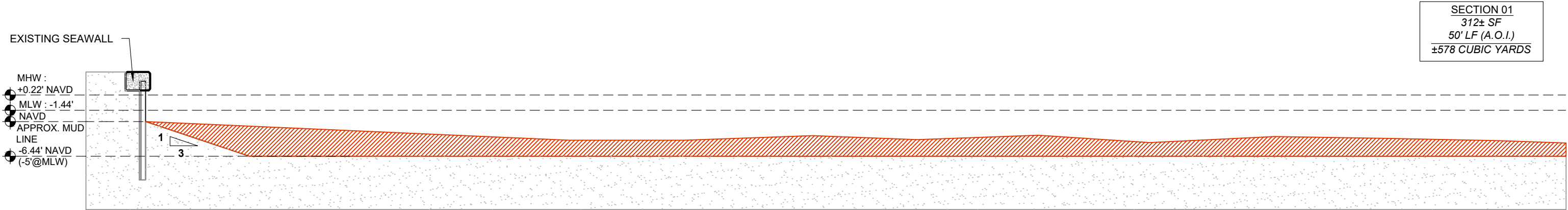
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SANIBEL, FLORIDA

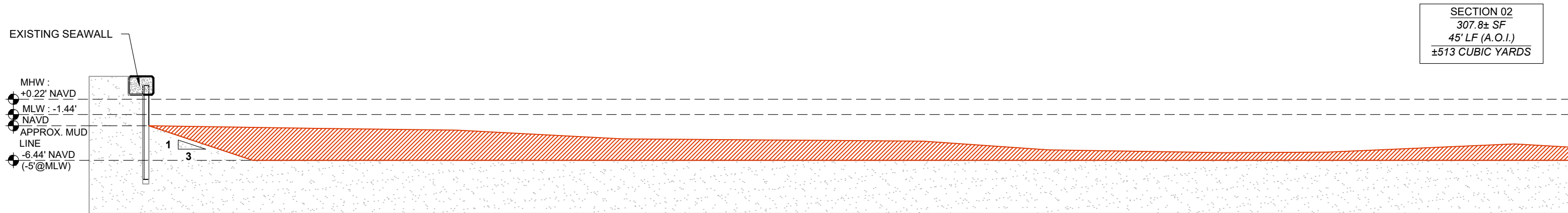
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07




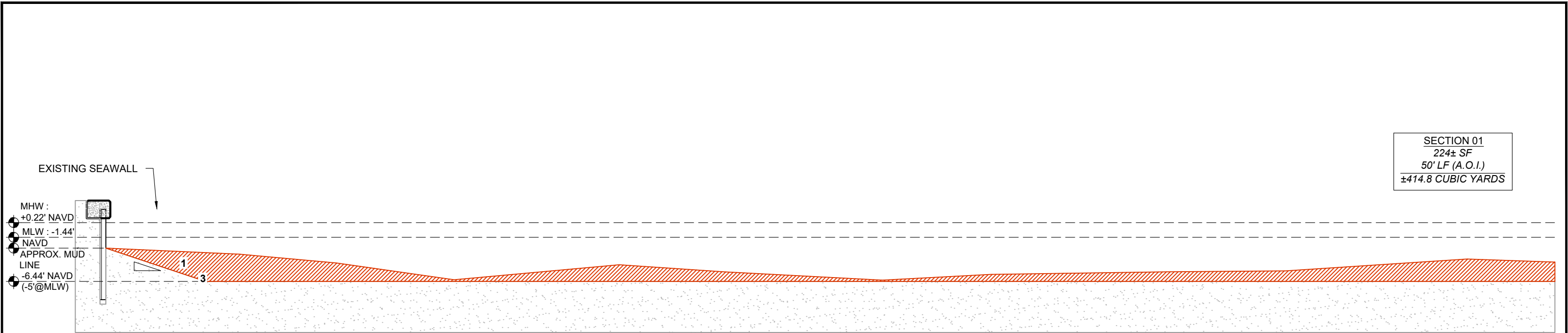
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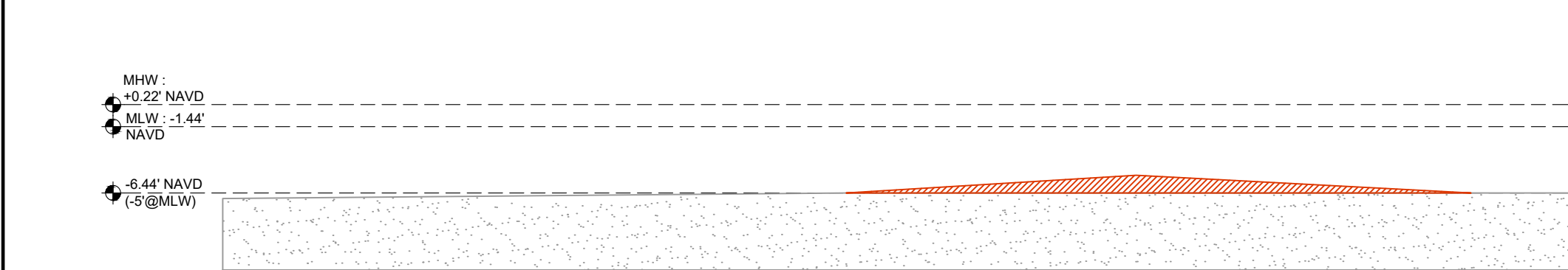
2 DREDGE SECTION

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1 DREDGE SECTION



2 DREDGE SECTION

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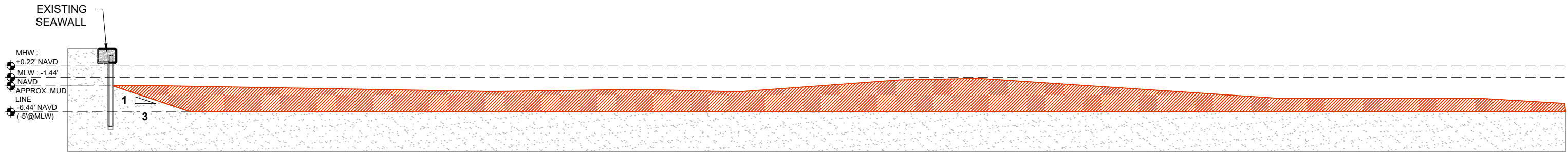


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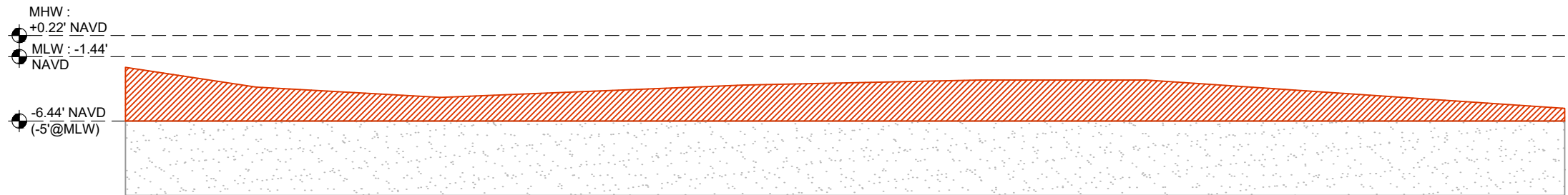
634 N YACHTSMAN DR SANIBEL, FLORIDA	DATE: 04/12/24	FILE: 240XXX	REV:
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DREDGE SECTIONS	CHECKED BY: JTF	09	
	SCALE: AS NOTED		

SECTION 01
647± SF
41' LF (A.O.I.)
±982.5 CUBIC YARDS



1 DREDGE SECTION

SECTION 02
285± SF
30.1' LF (A.O.I.)
±317.7 CUBIC YARDS



2 DREDGE SECTION

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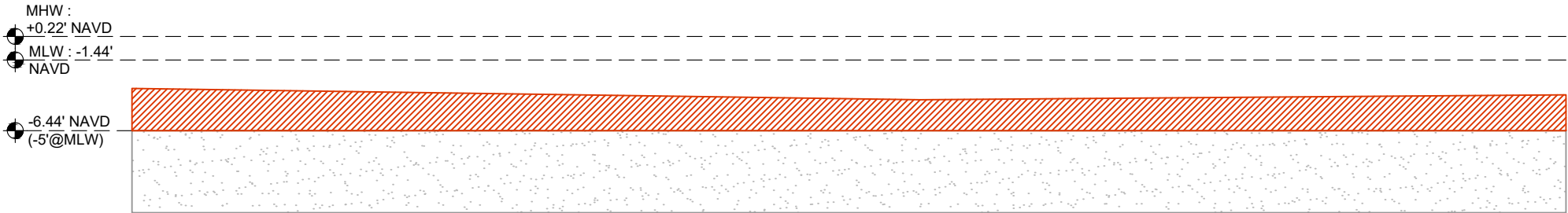
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DREDGE SECTIONS

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10

SECTION 01
252± SF
11.3' LF (A.O.I.)
±105.5 CUBIC YARDS



1 DREDGE SECTION

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634 N YACHTSMAN DR
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DREDGE SECTIONS

DATE: 04/12/24	FILE: 240XXX	REV:
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