



260 Cranberry Highway
Orleans, MA 02653
508.255.6511 P 508.255.6700 F
Orleans | Sandwich | Nantucket
coastalengineeringcompany.com

TRANSMITTAL

To: Conservation Commission
Attn: Stevie Fitch, Agent
Bourne Town Hall
24 Perry Avenue - Room 201
Buzzards Bay, MA 02532-3441

Date: 09/29/2022 **Project No.** C19591.00
Via: 1st Class Mail Pick up Delivery Fed Ex
Phone:
Fax:

Subject: NOI Revised Plan & Supplemental Info
Proposed Dune Restoration and Beach
Nourishment
Richard W. Selby
134 Wings Neck Road
Pocasset, MA
Map 37.4 Parcel 28-0
DEP File No: SE 07-2217

No. of pages to follow:

Plans Copy of Letter Specifications Other

We are sending the following items:

Copies	Date	No.	Description
2	9/23/2022		Sieve analysis record sheet
2	REV 9/20/2022	C-101	Coastal Engineering Co., Inc. Plan Showing Proposed Dune Nourishment

These are transmitted as checked below:

for approval for your use as requested for review & comment

Remarks: Enclosed please find copies of the plans for the referenced project.

If you have any questions, please contact our office.

cc: Mass. DEP/SERO – Wetlands
Richard W. Selby
Donald K. Munroe, Project Manager

By: Carla Davis



SIEVE ANALYSIS RECORD SHEET

Project No: C19591.00

Sheet 1 of 4

260 Cranberry Hwy., Orleans, MA 02653 508-255-6511 Fax: 508-255-6700

Client: C19591.00 / Selby / 134 Wings Neck Road / Pocasset

Date: 9/23/2022

Time: 1:00PM

Pre-Sieve Measurements:

SAMPLE	1	2	3	4	5
Pan ID	WB-3	2			
Pan wt. (g)	193.60	172.00			
Pan + Moist Sample (g)	555.30	N/A			
Pan + Dry Sample (g)	536.90	732.50			
Moisture Content (g)	18.40	#VALUE!	0.00	0.00	0.00
% Moisture by weight	5.1		#DIV/0!	#DIV/0!	#DIV/0!

Oven:

Time in: 10:00AM

Time out: 1:00PM

Weight Retained + Pan (g):

Sieve No.	SAMPLE				
	1	2	3	4	5
4	224.10	177.40			
10	196.90	202.10			
40	356.30	603.00			
200	340.00	262.20			
PAN	193.90	175.10			

Sample Correspondence:

SAMPLE	DESCRIPTION
1	Selby Dune Sample
2	Source Sand, Cape Sand & Recycling
3	XXXX
4	XXXX
5	XXXX

Sampled by: NDJ Analysis by: ACC



SIEVE ANALYSIS DATA AND COMPUTATION SHEET

C19591.00

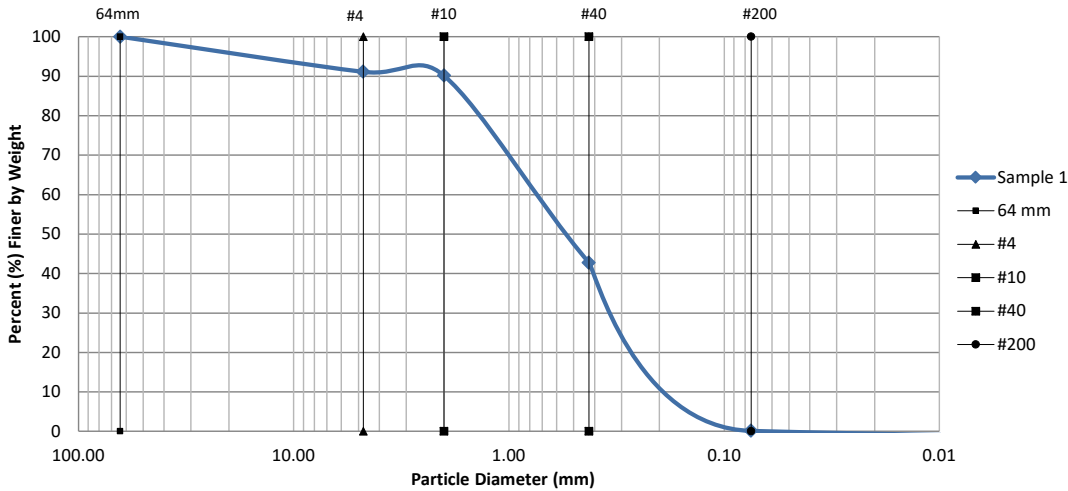
Project No.: C19591.00

Sheet 2 of 4

260 Cranberry Hwy., Orleans, MA 02653 508-255-6511 Fax: 508-255-6700

CLIENT: C19591.00 / Selby / 134 Wings Neck Road			SAMPLE NUMBER: 1					
DATE: 9/23/2022			PROJECT NUMBER: C19591.00					
TIME: 1:00PM			MUNSELL COLOR: XXYX X/X					
DRY WEIGHT OF SAMPLE (grams): 343.3			SOURCE OF SAMPLE: Selby Dune Sample					
PAN WEIGHT (grams): 193.6			SAMPLED BY: NDJ		ANALYSIS BY: ACC			
Sieve Openings		U.S. Sieve	Weight Retained	Cumulative Weight Retained	Percent Retained	Cumulative Percent Retained	Percent Passing	Project Manual Specifications
Inches	Millimeters	Mesh	(grams)	(grams)				ASTM D422
2.52	64.000		0.0	0.0	0.00	0.00	100.00	
0.19	4.750	4	30.5	30.5	8.88	8.88	91.12	
0.08	2.000	10	3.3	33.8	0.96	9.85	90.15	
0.02	0.425	40	162.7	196.5	47.39	57.24	42.76	
0.00	0.075	200	146.4	342.9	42.64	99.88	0.12	
0.00	0.000	Pan	0.3	343.2	0.09	99.97	0.03	
Passed Mesh Sieve								
TOTAL			343.2					

To represent sieve numbers:		
Size	x	y
64 mm	64.000	0
	64.000	100
#4	4.750	0
	4.750	100
#10	2.000	0
	2.000	100
#40	0.425	0
	0.425	100
#200	0.075	0
	0.075	100



CBL	GRAVEL	SAND			SILT OR CLAY
		CRS	MEDIUM	FINE	



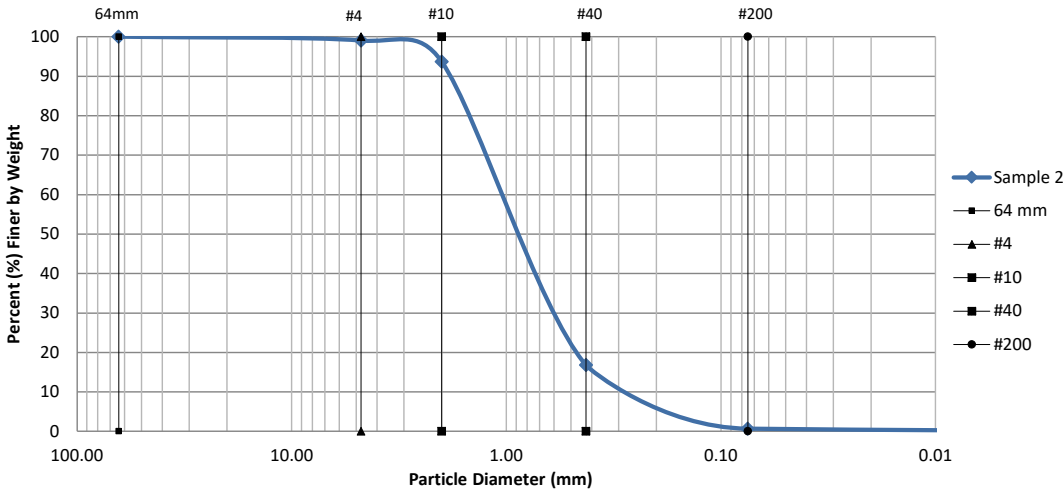
SIEVE ANALYSIS DATA AND COMPUTATION SHEET

Project No.: C19591.00
 Sheet 3 of 4

260 Cranberry Hwy., Orleans, MA 02653 508-255-6511 Fax: 508-255-6700

CLIENT: C19591.00 / Selby / 134 Wings Neck Road			SAMPLE NUMBER: 2					
DATE: 9/23/2022			PROJECT NUMBER: C19591.00					
TIME: 1:00PM			MUNSELL COLOR: XYY X/X					
DRY WEIGHT OF SAMPLE (grams): 560.5			SOURCE OF SAMPLE: Source Sand, Cape Sand & Recycling					
PAN WEIGHT (grams): 172.0			SAMPLED BY: NDJ		ANALYSIS BY: ACC			
Sieve Openings		U.S. Sieve	Weight Retained	Cumulative Weight Retained	Percent Retained	Cumulative Percent Retained	Percent Passing	Project Manual Specifications
Inches	Millimeters	Mesh	(grams)	(grams)				ASTM D422
2.52	64.000		0.0	0.0	0.00	0.00	100.00	
0.19	4.750	4	5.4	5.4	0.96	0.96	99.04	
0.08	2.000	10	30.1	35.5	5.37	6.33	93.67	
0.02	0.425	40	431.0	466.5	76.90	83.23	16.77	
0.00	0.075	200	90.2	556.7	16.09	99.32	0.68	
0.00	0.000	Pan	3.1	559.8	0.55	99.88	0.12	
Passed Mesh Sieve								
TOTAL			559.8					

To represent sieve numbers:		
Size	x	y
64 mm	64.000	0
	64.000	100
#4	4.750	0
	4.750	100
#10	2.000	0
	2.000	100
#40	0.425	0
	0.425	100
#200	0.075	0
	0.075	100



CBL	GRAVEL	SAND			SILT OR CLAY
		CRS	MEDIUM	FINE	



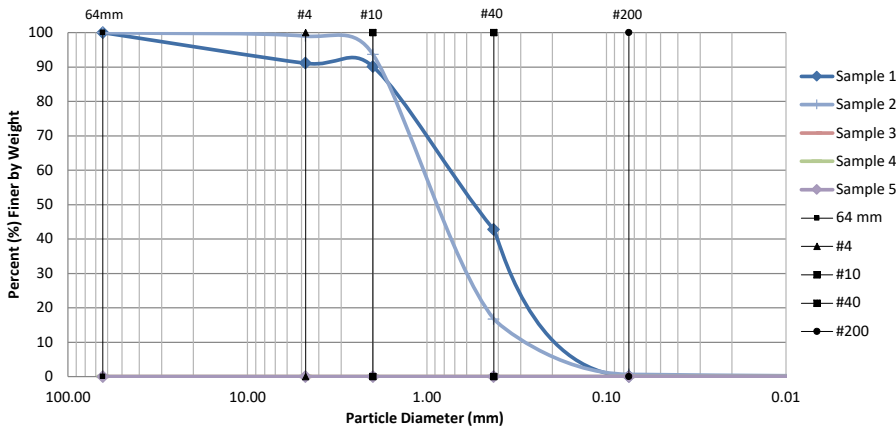
SIEVE ANALYSIS RESULTS AND COMPARISON SHEET

Project No.: C19591.00
 Sheet 4 of 4

260 Cranberry Hwy., Orleans, MA 02853 508-255-6511 Fax: 508-255-6700

SAMPLE	COMMENTS
1	Selby Dune Sample
2	Source Sand, Cape Sand & Recycling
3	XXXX
4	XXXX
5	XXXX

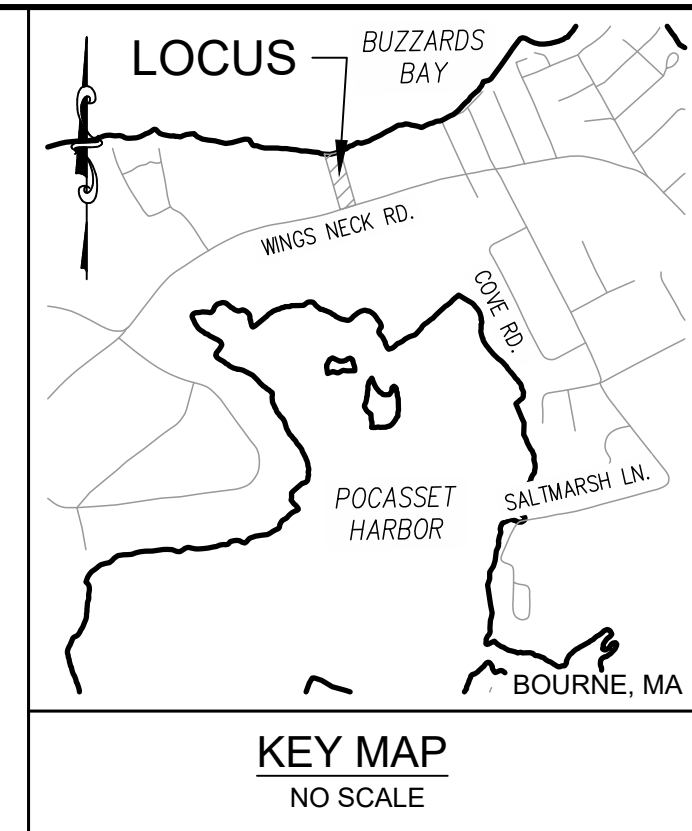
To represent sieve numbers:		
Size	x	y
64 mm	64.000	0
	64.000	100
#4	4.750	0
	4.750	100
#10	2.000	0
	2.000	100
#40	0.425	0
	0.425	100
#200	0.075	0
	0.075	100



CBL	GRAVEL	SAND			SILT OR CLAY
		CRS	MEDIUM	FINE	



200 Cranberry Hwy, Orleans, MA 02653
508-255-6311 F 508-255-8700 F



NO.	DATE	REVISION	
		BY	MJT
1	09-20-2022	ADDED CROSS-SECTION, STAGING AREA AND WETLAND DELINEATION	

LEGEND

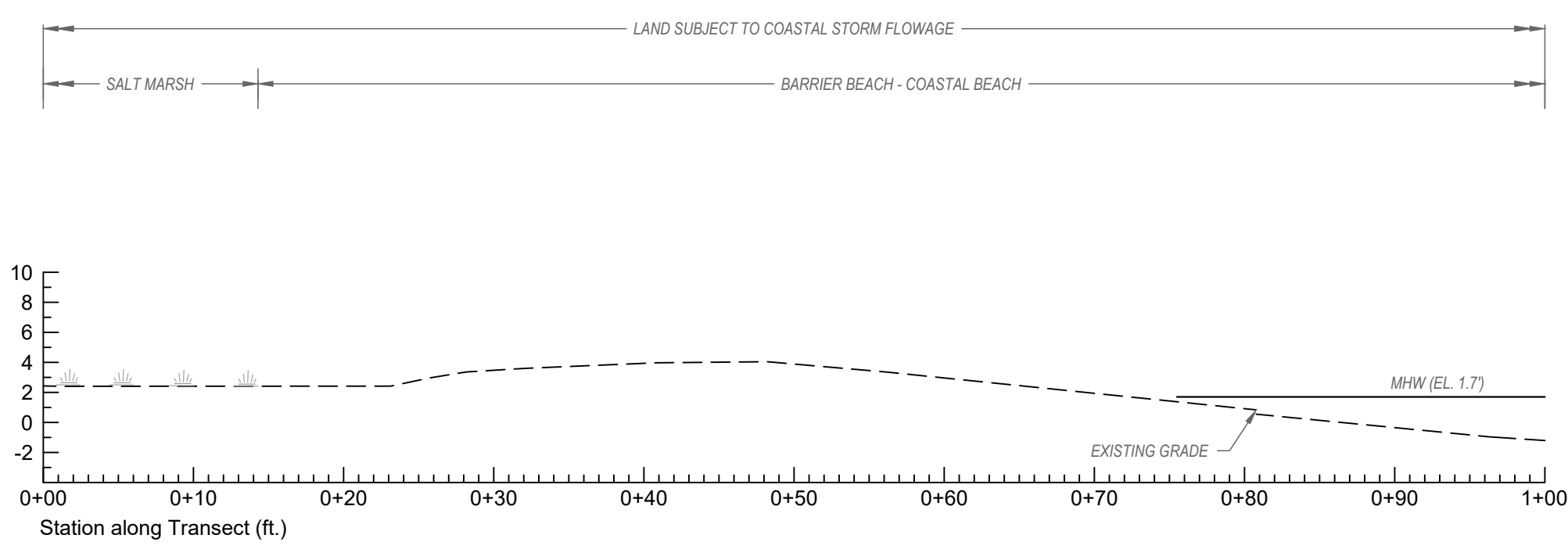
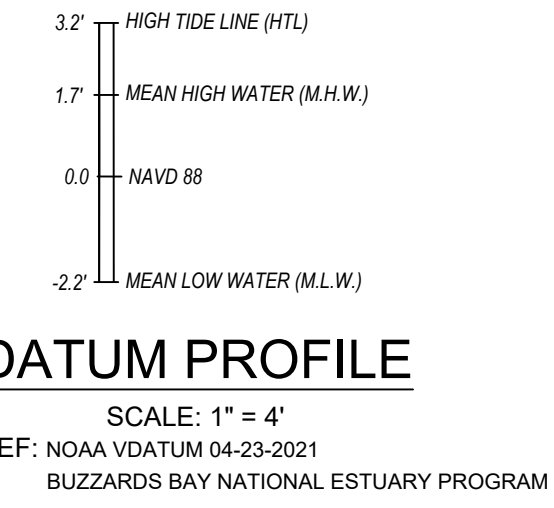
EXISTING	PROPOSED
■	BOUND
—	PROPERTY LINE
-10-	MAJOR CONTOUR
-8-	MINOR CONTOUR
X-X	PICKET FENCE
— G —	UNDERGROUND GAS
— D —	DRAIN PIPE
EM	ELECTRIC METER
S	SEWER MANHOLE
X 6.9'	SPOT ELEVATION
▲	TREE
▲	ROCK
▲	FLOOD/EBB DIRECTION
—	WATER LEVEL
—	BENCHMARK

GENERAL NOTES:

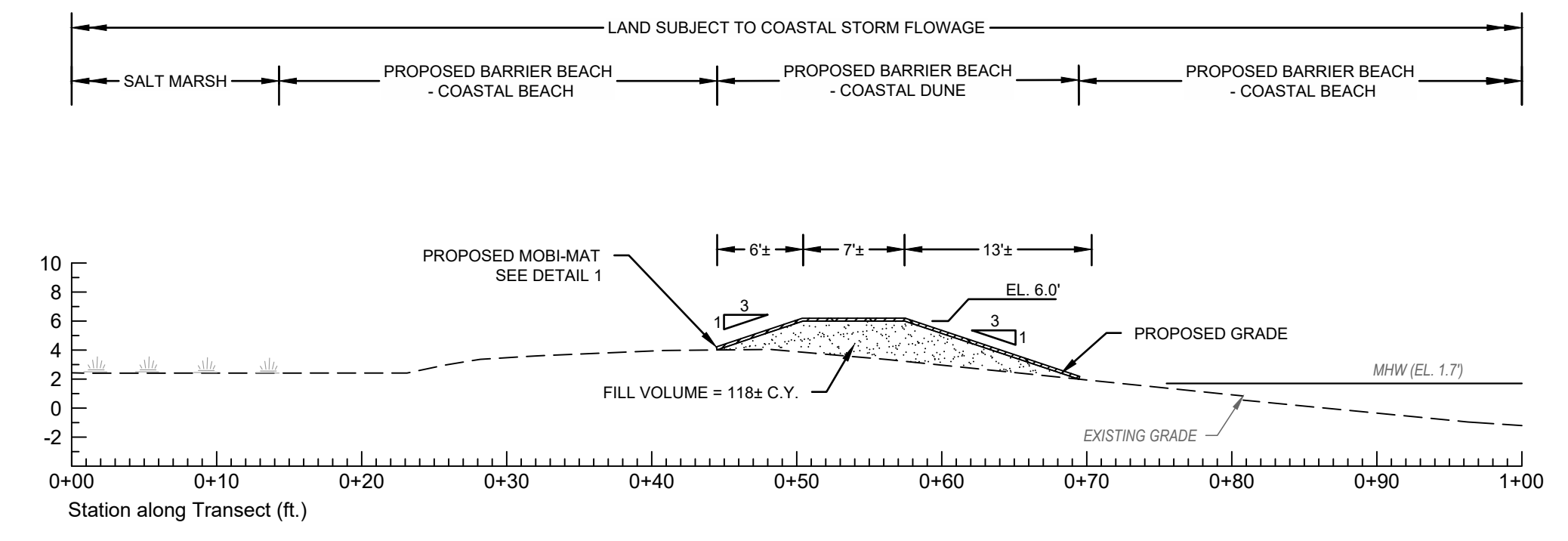
1. THE PROPERTY IS LOCATED IN THE TOWN OF BOURNE, MA ALONG BUZZARDS BAY AND IS REFERENCED BY 134 WINGS NECK ROAD (ASSESSORS MAP 37.4, PARCEL 28), (DEED BOOK 28496, PAGE 87), (PLAN BOOK 194, PAGE 21).
2. VERTICAL DATUM IN U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED UPON THE HEXAGON SMARTNET RTK NETWORK.
3. THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED 04-07-2021.
4. EXISTING UTILITIES, UNDERGROUND AND OVERHEAD, MAY EXIST IN ADDITION TO THE UTILITY INFORMATION SHOWN ON THESE PLANS. THIS PLAN MUST NOT BE USED TO LOCATE UNDERGROUND UTILITIES. CALL DIG SAFE AT 811 PRIOR TO STARTING ANY EXCAVATION.
5. THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
6. FLOOD ZONE VE (EL. 17) SHOWN ON THIS DRAWING ARE A DIRECT REPRESENTATION OF THE GRAPHIC FLOOD ZONE BOUNDARIES SHOWN ON FEMA FIRM PANEL #25001C0484J EFFECTIVE JULY 16, 2014. PLEASE NOTE THAT SITE SPECIFIC FLOODPLAIN BOUNDARIES MAY VARY DUE TO DIFFERENT INTERPRETATIONS OF THESE BOUNDARIES. USERS ARE ADVISED TO VERIFY LOCATION OF THESE BOUNDARIES WITH THE DESIGNATED COMMUNITY FLOODPLAIN MANAGERS AND/OR FEMA PRIOR TO SITING ANY PROPOSED STRUCTURES.
7. THE ENTIRE PROPERTY RESIDES WITHIN THE FEMA FLOOD ZONE VE (EL. 17).
8. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL, EQUIPMENT AND LABOR FOR CONSTRUCTION OF THE COASTAL DUNE AS DESCRIBED AND SHOWN ON THE PLAN AND DETAILS.
9. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE ORDER OF CONDITIONS ISSUED BY THE BOURNE CONSERVATION COMMISSION.
10. ACCESS TO THE LIMIT OF WORK SHALL BE FROM THE OWNERS PROPERTY. STAGING AREA FOR MATERIALS TO BE IN THE OWNERS PROPERTY ALONG THE EXISTING GRAVEL DRIVEWAY AND LAWN AREAS. THE CONTRACTOR SHALL GAIN ALL NECESSARY PERMISSIONS FOR ACCESS OVER PRIVATE OR TOWN PROPERTY PRIOR TO CONSTRUCTION. ACCESS TO BE ALONG THE WEST SIDE OF THE DWELLING. ACCESS TO BE RESTORED TO PRE-CONSTRUCTION CONDITION.
11. AREAS DISTURBED THROUGH CONSTRUCTION ACCESS TO BE RE-VEGETATED TO MATCH PRE-CONSTRUCTION CONDITIONS.
12. SPECIAL PROVISIONS FOR COASTAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOUND IN THE "COASTAL CONSTRUCTION MANUAL" AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA-55).
13. ALL DIMENSIONS, GRADES, ETC. SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE ENGINEER TO BE RESOLVED PRIOR TO CONSTRUCTION.

EARTHWORK

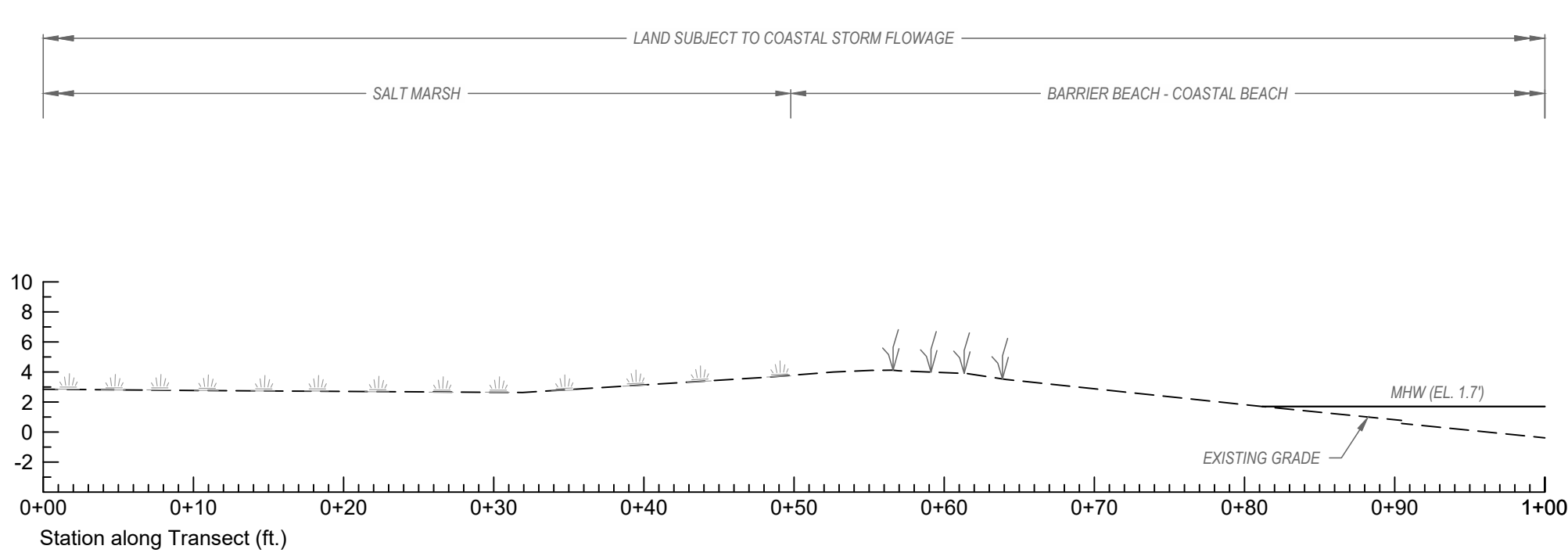
1. SITE TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE ORIGINAL CONTOURS AND SPOT GRADE ELEVATIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING A POSITIVE DRAINAGE FLOW WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
2. SAND FOR DUNE ENHANCEMENT TO BE GRAIN SIZE COMPATIBLE TO EXISTING BEACH MATERIAL.
3. BEACH GRASS TO BE PLANTED IN 1' x 1' MATRIX, 3 CULMS PER HOLE.
4. APPROXIMATELY 2,000± SQ. FT. OF PLANTING AREA.
5. THE NEWLY GRADED COASTAL DUNE WILL HAVE EROSION CONTROL BLANKETS, SECURED WITH WOODEN STAKES, COMPRISED OF JUTE OR SIMILAR MATERIAL.



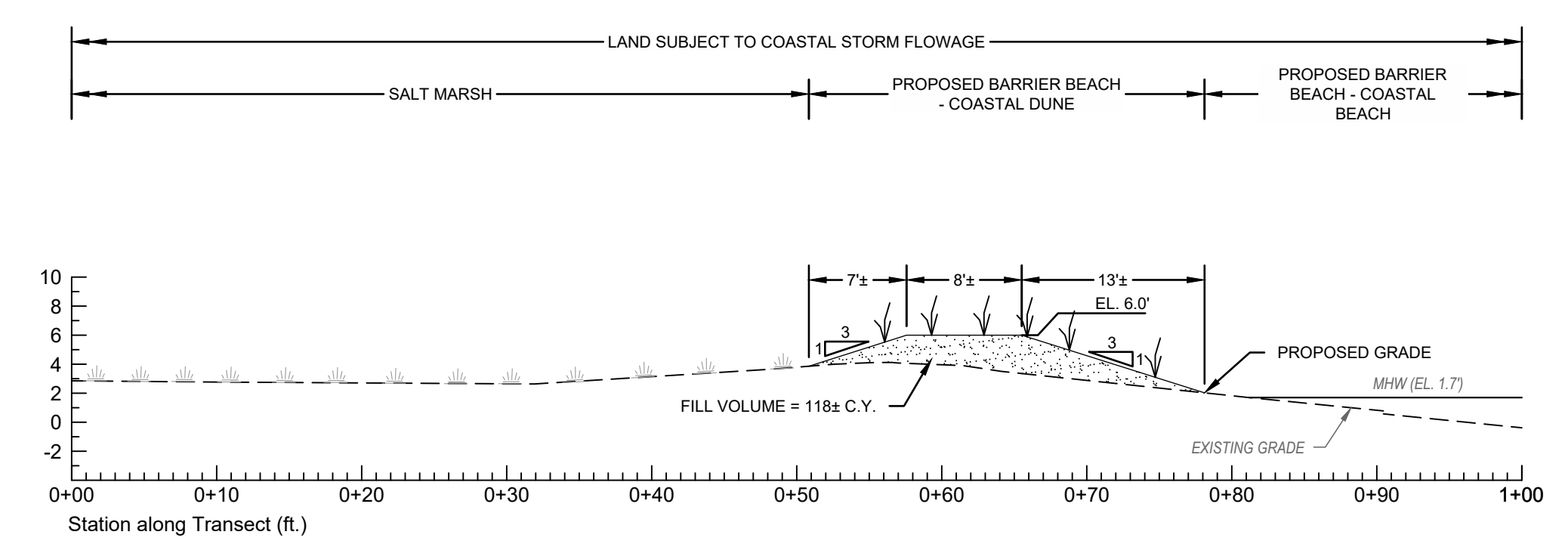
A EXISTING BEACH SECTION VIEW SCALE: 1" = 10'



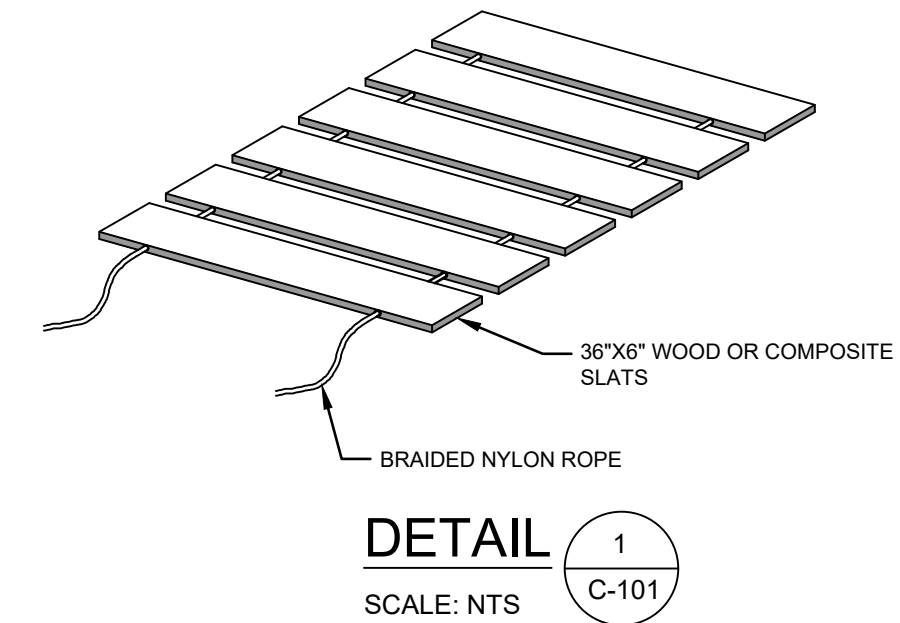
A PROPOSED BEACH SECTION VIEW SCALE: 1" = 10'



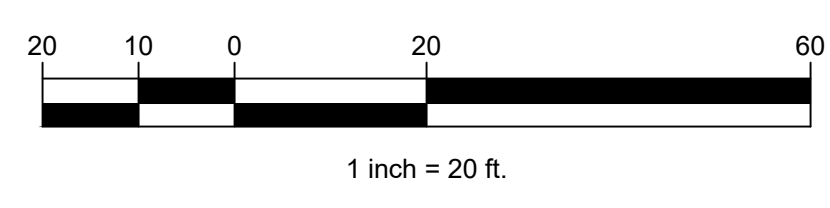
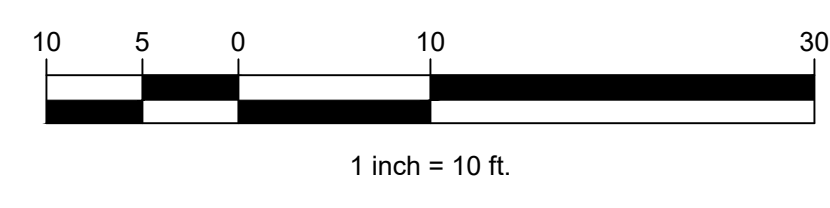
B EXISTING BEACH SECTION VIEW SCALE: 1" = 10'



B PROPOSED BEACH SECTION VIEW SCALE: 1" = 10'



DETAIL 1 SCALE: NTS C-101



PERMIT SUBMISSION NOT FOR CONSTRUCTION
THIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

PROPOSED DUNE NOURISHMENT RICHARD W. SELBY

PLAN VIEW, SECTION VIEW, NOTES, AND LEGEND

SCALE	AS NOTED
DRAWING FILE	C19591-00-MAR.dwg
DATE	08-30-2022
DRAWN BY	ELN/NDJ/WGM
CHECKED BY	TDT

C-101
1 OF 1 SHEETS
PROJECT NO. C19591.00

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