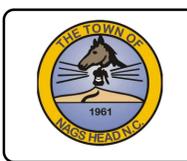


TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

NAGS HEAD, NORTH CAROLINA



Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

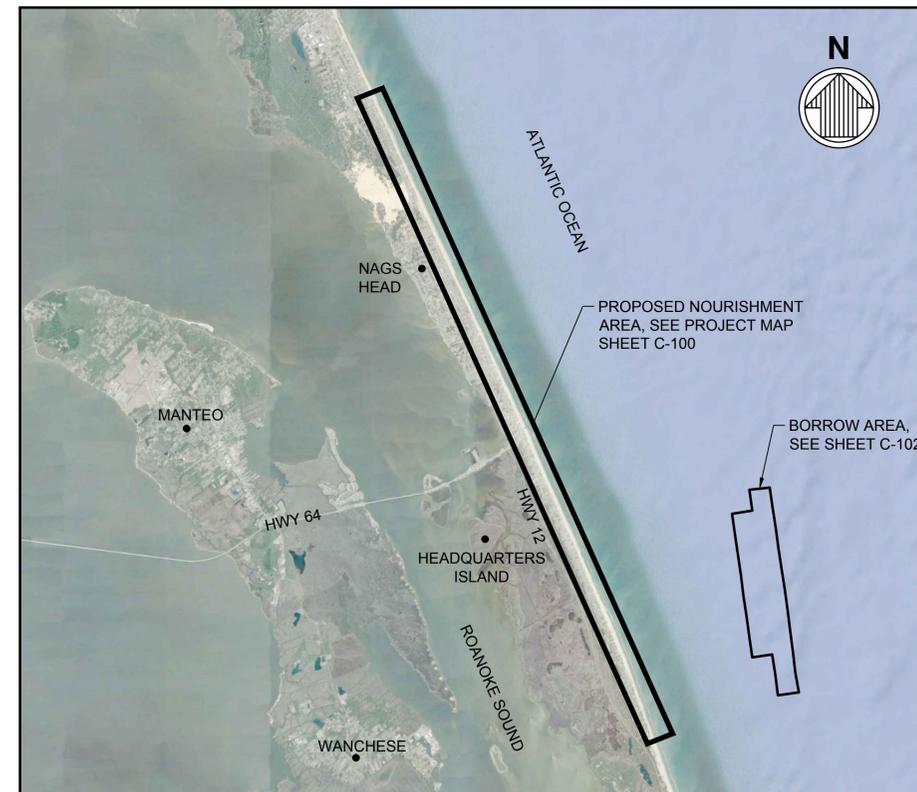
TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

COVER SHEET



VICINITY MAP
SCALE: NTS

INDEX OF DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
1	G-001	COVER SHEET
2	G-002	GENERAL NOTES
3	G-003	ABBREVIATIONS & LEGEND
4	G-004	KEY PLAN
5	C-100	OVERALL PROJECT PLAN
6	C-101	PROJECT STAGING AND ACCESS PLANS
7	C-102	BORROW AREA SITE PLAN
8	C-103	BORROW AREA VIBRACORE SUMMARY TABLE
9	C-104	PIPELINE CORRIDOR PLAN
10	C-110	SITE PLAN SHEET 1 OF 20
11	C-111	SITE PLAN SHEET 2 OF 20
12	C-112	SITE PLAN SHEET 3 OF 20
13	C-113	SITE PLAN SHEET 4 OF 20
14	C-114	SITE PLAN SHEET 5 OF 20
15	C-115	SITE PLAN SHEET 6 OF 20
16	C-116	SITE PLAN SHEET 7 OF 20
17	C-117	SITE PLAN SHEET 8 OF 20
18	C-118	SITE PLAN SHEET 9 OF 20
19	C-119	SITE PLAN SHEET 10 OF 20
20	C-120	SITE PLAN SHEET 11 OF 20
21	C-121	SITE PLAN SHEET 12 OF 20
22	C-122	SITE PLAN SHEET 13 OF 20
23	C-123	SITE PLAN SHEET 14 OF 20
24	C-124	SITE PLAN SHEET 15 OF 20
25	C-125	SITE PLAN SHEET 16 OF 20
26	C-126	SITE PLAN SHEET 17 OF 20
27	C-127	SITE PLAN SHEET 18 OF 20
28	C-128	SITE PLAN SHEET 19 OF 20
29	C-129	SITE PLAN SHEET 20 OF 20
30	C-300	TYPICAL SECTIONS
31	C-301	BORROW AREA SECTIONS SHEET 1 OF 2
32	C-302	BORROW AREA SECTIONS SHEET 2 OF 2
33	C-303	CROSS SECTIONS SHEET 1 OF 9
34	C-304	CROSS SECTIONS SHEET 2 OF 9
35	C-305	CROSS SECTIONS SHEET 3 OF 9
36	C-306	CROSS SECTIONS SHEET 4 OF 9
37	C-307	CROSS SECTIONS SHEET 5 OF 9
38	C-308	CROSS SECTIONS SHEET 6 OF 9
39	C-309	CROSS SECTIONS SHEET 7 OF 9
40	C-310	CROSS SECTIONS SHEET 8 OF 9
41	C-311	CROSS SECTIONS SHEET 9 OF 9
42	C-501	PLANTING & SAND FENCE DETAILS
43	C-601	BEACH FILL WORK POINT TABLE



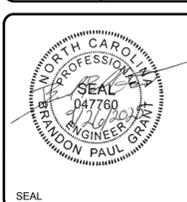
LOCATION PLAN
SCALE: NTS

Rev.	0
Date:	2025-09-29
M&N Project No.	10979-16
Drawing code:	
Drawing Scale:	AS SHOWN
Per Scale:	1" = (0 SHEET)

Designed by: B. GRANT
Dwn by: VNM
Ckd by: BPG
Reviewed by: B. JOYNER
Submitted by: MOFFATT & NICHOL

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM NO. F-005

moffatt & nichol

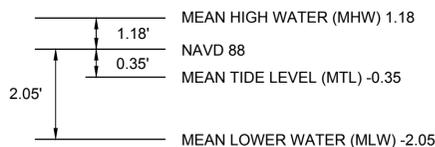


Sheet Reference No.
G-001
INDEX: 1 OF 43

ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

GENERAL NOTES

- THE NORTHING AND EASTING COORDINATES SHOWN ON THE DRAWINGS AND REFERENCED IN THE DESIGN REFER TO NORTH CAROLINA STATE PLANE NAD83 [NORTH AMERICAN DATUM 83 (FEET)].
- ELEVATIONS SHOWN ON THE DRAWINGS REFERENCE NAVD88 (NORTH AMERICAN VERTICAL DATUM 1988).
- ALL THE ELEVATIONS AND BATHYMETRY/TOPOGRAPHY SHOWN ON THE DRAWINGS REFERENCE NAVD88 AND WERE OBTAINED DURING A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED. THE INFORMATION SHOULD ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
- THE BORROW SITE BATHYMETRY SHOWN ON THE DRAWINGS REFERENCE NAVD88 AND WERE OBTAINED DURING A MARCH 2025 SURVEY CONDUCTED BY MCKIM & CREED. THE INFORMATION SHOULD ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
- THE CONTRACTOR SHALL PLACE THE PERMIT PLACARDS ON THE JOB SITE AND SHALL COMPLY WITH ALL TERMS OF THE PERMITS PERTAINING TO THE PERFORMANCE OF THE WORK. SEE TECHNICAL SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY OWNER OF DISCREPANCIES.
- CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY UNSUITABLE EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED LANDFILL.
- THESE PLANS ARE INCOMPLETE WITHOUT THE PROJECT TECHNICAL SPECIFICATIONS. IF THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL ALERT THE OWNER AND ENGINEER. THE TECHNICAL SPECIFICATIONS SHALL TAKE PRECEDENCE.
- STAGING AREAS SHALL BE MAINTAINED BY THE CONTRACTOR. STAGING AREAS SHALL BE CLEARED OF DEBRIS AND CONTRACTOR INSTALLED AMENITIES AT THE COMPLETION AND ACCEPTANCE OF WORK IN THE AREA. THE CONTRACTOR SHALL RESTORE THE ACCESS AREAS TO THEIR ORIGINAL CONDITION AFTER WORK IN THE AREA IS COMPLETE. THIS WORK INCLUDES, BUT NOT LIMITED TO, REPLACEMENT OF FENCING, SIGNS, SAND FENCE, BEACH VEGETATION, WALKWAYS, DUNES, DUNE VEGETATION, PARKING FACILITIES, PAVED AREAS AND OTHER MISCELLANEOUS ITEMS. ALL REPLACEMENT MATERIALS SHALL BE APPROVED BY THE ENGINEER/OWNER BEFORE INSTALLATION.
- ANY EXISTING SIGNS, FENCES, OR OTHER STRUCTURES WITHIN THE WORK LIMITS SHALL BE PROTECTED AND/OR REMOVED AND LATER REPLACED BY THE CONTRACTOR AS DIRECTED.
- THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE BEACH FILL DRAWINGS AND BELOW ARE BASED ON NOAA TIDE STATION 8651370, DUCK, NC.



- FEBRUARY 2025 AERIAL IMAGERY PROVIDED BY NEARMAP.

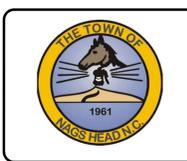
BEACH FILL

- ALL SAND EXCAVATED FROM THE BORROW AREAS SHALL BE TRANSPORTED TO, AND DEPOSITED ON, THE BEACH BETWEEN THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE DRAWINGS.
- BEACH FILL MATERIAL SHALL BE PLACED WITHIN THE LIMITS AND GRADE LINES SHOWN, AS PRACTICALLY AS POSSIBLE. TOLERANCE SHALL BE WITHIN +0.5 FOOT ABOVE FINISHED GRADE AS SHOWN.
- THE PLACEMENT DESIGN (PLAN DIMENSIONS) MAY BE CHANGED BY THE OWNER TO ACCOUNT FOR CHANGED CONDITIONS AT THE TIME OF CONSTRUCTION. THE FINAL PLACEMENT DESIGN WILL STRIVE TO PROVIDE THE AVERAGE PLACEMENT DENSITY REFERENCED ON THE PLANS FOR EACH REACH. THIS MAY REQUIRE THE BERM WIDTH TO BE ALTERED FROM THOSE SHOWN ON THE PLANS.
- THE BEACH FILL SHALL BE GRADED, PRIOR TO COMPLETION OF WORK, TO DISCOURAGE WATER PONDING.
- EXISTING WALKWAYS SHALL REMAIN. ANY DAMAGE OCCURRING DURING CONSTRUCTION SHALL BE REPAIRED PRIOR TO DEMOBILIZATION. FILL SHALL BE PLACED COMPLETELY UNDERNEATH AND/OR AROUND THE WALKWAY STRUCTURES.
- CONTOURS FOR THE BEACH FILL PLANS ARE SHOWN AT 2 FT (MINOR) AND 10 FT (MAJOR) INTERVALS AND ALSO INCLUDE THE BERM ELEVATION OF +6.0 NAVD88.
- CONTOURS FOR THE BORROW SITE ARE SHOWN AS 2 FT (MINOR) AND 10 FT (MAJOR) INTERVALS.
- BEACH FILL SLOPES CALLED OUT ON THE PLANS ARE HORIZONTAL : VERTICAL.
- TEMPORARY SAND RAMPS SHALL BE PROVIDED OVER THE DREDGE PIPELINE FOR PEDESTRIAN AND EMERGENCY VEHICLE ACCESS. THE MAXIMUM DISTANCE BETWEEN THESE TEMPORARY SAND RAMPS SHALL BE 500 FEET. THESE TEMPORARY SAND RAMPS SHALL BE LEVELED ONCE THE PIPELINE HAS BEEN MOVED.
- THE BEACH SHALL BE CLOSED TO THE PUBLIC WITHIN 250 FT IN BOTH THE UP STATION AND DOWN STATION DIRECTION FROM THE ACTIVE PIPELINE DISCHARGE LOCATION.
- THE PIPELINE SHALL BE PLACED ALONG THE CONSTRUCTED BEACH AS CLOSE TO THE DUNE AS PRACTICAL TO MINIMIZE POTENTIAL SEA TURTLE IMPACTS.
- CONSTRUCTION LIGHTING SHALL BE MINIMIZED AND FOCUSED ONLY ON THE ACTIVE CONSTRUCTION AREA. THE LIGHTS SHALL BE DIRECTED DOWN AND SHALL BE SHIELDED FROM PERIPHERAL VIEW IN ACCORDANCE WITH FWS GUIDANCE.
- THE BEACH PLACEMENT SHALL NOT COVER EXISTING ESTABLISHED GRASSES AND SHALL AVOID DISCHARGES DIRECTLY ONTO THE DUNE OR DUNE VEGETATION.
- BEACH FILL OPERATIONS UTILIZING HEAVY MACHINERY SHALL NOT OCCUR WITHIN 10 FEET OF EXISTING STRUCTURES.
- EACH MORNING, THE BEACH FILL OPERATIONS SHALL NOT ADVANCE BEYOND THE ACTIVE PLACEMENT AREA PRIOR TO A SEA TURTLE NEST SURVEY AND CONFIRMATION OF NO POTENTIAL NESTS FROM AN EXPERIENCED AND LICENSED MONITOR.
- A TEMPORARY SHORE-PARALLEL SAND DIKE SHALL BE CONSTRUCTED AND MAINTAINED AS NECESSARY IN FRONT OF THE PIPELINE DISCHARGE TO DISCOURAGE SEDIMENT FROM RETURNING TO THE ATLANTIC OCEAN AND ASSIST WITH CONTROLLING TURBIDITY IMPACTS IN ACCORDANCE WITH STATE WATER QUALITY STANDARDS. THE TEMPORARY DIKE SHALL REMAIN WITHIN THE ACTIVE CONSTRUCTION AREA AND MAY ADVANCE ALONG THE SHORELINE CONSISTENT WITH THE PIPELINE DISCHARGE.
- AFTER NOTIFICATION BY THE CONTRACTOR OF THEIR INTENT TO COMMENCE DREDGING AND SAND PLACEMENT, A CURRENT BEACH SURVEY WILL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 4 WEEKS PRIOR TO THE COMMENCEMENT OF BEACH FILL PLACEMENT, THE UPDATED BEACH SURVEY WILL BE USED TO ADJUST THE LIMITS AND GRADE LINES TO MEET APPROXIMATE FILL DENSITIES PROVIDED WITH THE SECTIONS ON SHEETS C-303 THRU C-311.
- SAND SHALL BE PLACED WITHIN THESE LIMITS AND GRADE LINES AS PRACTICALLY AS POSSIBLE. TOLERANCE SHALL BE WITHIN +0.5 FOOT ONLY FOR BERM ELEVATION AND WIDTHS OUT TO THE MEAN TIDE LEVEL (MTL) AS SHOWN ON SHEET C-300. PAYMENT WILL BE MADE FOR THE CY/FT SHOWN ON THE PLANS WITH A TOLERANCE OF ±10%. EVERY ATTEMPT WILL BE MADE BY THE CONTRACTOR TO FILL WITHIN THE PRESCRIBED TEMPLATE. SEE TECHNICAL SPECIFICATIONS. THE BEACH FILL SHALL BE PLACED BY REACH GENERALLY FROM SOUTH TO NORTH.
- THE OWNER MAY MAKE ALTERATIONS IN THE PLAN DIMENSIONS, GRADE OF SLOPES, OR VOLUME OF FILL PER FOOT OF BEACH IN ORDER TO ACCOUNT FOR CHANGED CONDITIONS SINCE THE TIME OF THE EXISTING CONDITIONS SURVEY. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER TO ENSURE THAT THE TOTAL QUANTITY OF SAND ALLOWED UNDER THE CONTRACT IS PLACED AS EFFECTIVELY AS POSSIBLE.
- PRE- AND POST- CONSTRUCTION SURVEYS OF THE BEACH AREA SHALL BE COMPLETED BY AN INDEPENDENT REGISTERED/CERTIFIED SURVEYOR COORDINATED AND PAID FOR BY THE CONTRACTOR. TRANSECTS SHALL BE AT 100-FOOT INTERVALS. ADDITIONAL ELEVATIONS SHALL BE TAKEN AS NECESSARY TO ACCURATELY REPRESENT TOPOGRAPHY OF THE BEACH AREA.
- SEE TECHNICAL SPECIFICATION FOR ADDITIONAL PLACEMENT REQUIREMENTS.

PLANTING & SAND FENCING

- SAND FENCING LINES ON APPLICABLE SITE PLAN SHEETS INDICATE ALONGSHORE EXTENT OF SAND FENCING. SAND FENCING WILL BE INSTALLED LANDWARD OF THE TOE OF THE EXISTING FRONTAL DUNE OR ENGINEERED STARTER DUNE AT THE TIME OF INSTALLATION.
- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
- BREAKS IN THE NEW SAND FENCE LOCATIONS WILL BE PROVIDED AT EACH PUBLIC / PRIVATE ACCESS LOCATION AND MIMIC APPARENT OPENINGS IN EXISTING FENCE LINES. THE BREAKS SHALL HAVE A WIDTH RELATED TO THE PATH'S UTILITY: 10-FT WIDE AT RESIDENTIAL ACCESS, 20-FT WIDE AT END OF STREET AND VEHICLE ACCESSSES, 30-FT WIDE AT PUBLIC BEACH PEDESTRIAN ACCESS.
- THE PLANTING SHALL BE PLANTED AT 24" ON CENTER (O.C) SPACING OF 100% OF SEA OATS (UNIOLAPANICULATA).
- AREAS HAVE BEEN SPECIFICALLY IDENTIFIED WITHIN THE DRAWINGS FOR PLANTING BASED ON CURRENT VEGETATION COVERAGE, EASEMENT LINES, AND A VEGETATION PLANTING WIDTH OF 20-FT MAXIMUM, STARTING 10 TO 15 FEET BEHIND THE MOST LANDWARD SAND FENCE.
- IDENTIFIED PRIVATE AND PUBLIC ACCESS PATHWAYS WILL BE LEFT UNPLANTED. THIS HAS BEEN TAKEN INTO CONSIDERATION WHEN CALCULATING THE TOTAL AMOUNT OF PLANTS REQUIRED.
- FERTILIZER AND WATERING SHALL BE PROVIDED WITH PLANTING INSTALLATIONS.
- EXCESS PLANTS WILL BE PLACED AT THE DIRECTION OF THE ENGINEER OR TOWN REPRESENTATIVE.

BEACH RENOURISHMENT FILL TABLE				
SHORELINE SEGMENT	STATIONS	LENGTH	AVERAGE PLACEMENT DENSITY (CY/LF)	ESTIMATED PLACEMENT VOLUME (CY)
REACH 1	496+00 TO 790+00	29,400	28.7	843,000
REACH 2	790+00 TO 920+00	13,000	30.9	402,000
REACH 3N	920+00 TO 975+00	5,500	51.5	283,000
REACH 3S (BERM ONLY)	975+00 TO 991+00	1,600	111.9	455,000
REACH 3S (DUNE & BERM)	991+00 TO 1010+00	1,900	145.3	
REACH 4	1010+00 TO 1025+00	1,500	162.0	243,000
REACH 5 (NPS TAPER)	1025+00 TO 1030+00	500	20.0	10,000
TOTAL BASE BID				2,236,000
ADD ALTERNATE #1	500+00 TO 1025+00		NA	100,000
ADD ALTERNATE #2	500+00 TO 1025+00		NA	100,000
TOTAL BASE BID + ADD ALTERNATES				2,436,000



Rev.	Date	Description
0	2025-09-25	ISSUED FOR BID

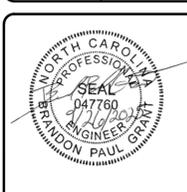
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2025

GENERAL NOTES

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL	Per scale: 1" = 10' (0 SHEET)
Date: 2025-09-25	MAN Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN		

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
NC FIRM NO. F-005

moffatt & nichol



Sheet Reference No.
G-002

INDEX: 2 OF 43

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ISSUED: 2025-09-29
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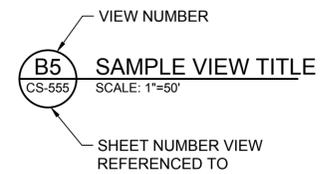
ABBREVIATIONS

CY	CUBIC YARDS
FT	FEET OR FOOT
FWS	US FISH & WILDLIFE SERVICE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MTL	MEAN TIDE LEVEL
NAD	NORTH AMERICAN DATUM
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGS	NATIONAL GEODETIC SURVEY
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NO.	NUMBER
N/A	NOT APPLICABLE
TYP	TYPICAL
SHPO	STATE HISTORIC PRESERVATION OFFICE
WP	WORK POINT
BL	BASELINE
@	AT
~	APPROXIMATELY
Ø	DIAMETER

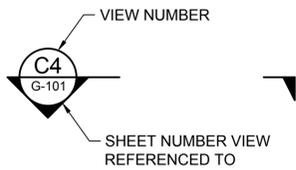
LEGEND

EXISTING		PROPOSED
----- MHW	MEAN HIGH WATER LINE	----- MHW
----- MLW	MEAN LOW WATER LINE	----- MLW
----- 5 -----	MAJOR CONTOUR	
-----	MINOR CONTOUR	
-----	FILL SLOPE LIMIT	-----
-----	FILL SLOPE BREAK	-----
⊙	WORK POINT	⊙ WP-##
⊙	NGS STATION	
⊙	NAME	
	SLOPE INDICATOR	∇

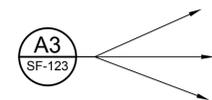
LEGEND



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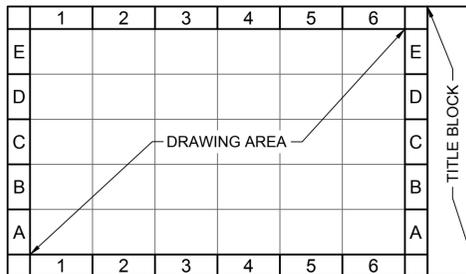


SECTION CALLOUT

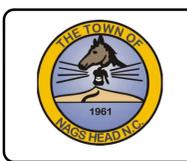
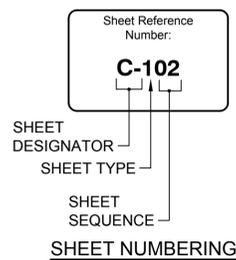


DETAIL CALLOUT WITH LEADERS

* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM:
"VIEW NO./SHEET NO." (EG A1/CS-5001)



DRAWING AREA COORDINATE SYSTEM (DACS)



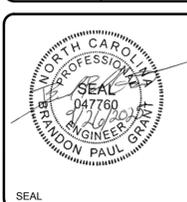
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TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

ABBREVIATIONS & LEGEND

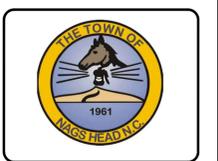
Designed by: B. GRANT	Drawn by: VNM	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL
Date: 2025-09-29	M&N Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN
Per scale: 1:1 (0 SHEET)			

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-0105



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Sheet Reference No.
G-003
INDEX: 3 OF 43



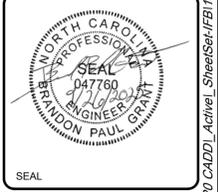
Mark	Description	Date	Appr
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

KEY PLAN

Designed by: B. GRANT	Date: 2025-09-29	Rev: 0
Drawn by: VNM	MAN Project No: 10979-16	
Checked by: BPG	Drawing code:	
Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL	Drawing Scale: AS SHOWN
		Plot scale: 1" = 10' (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-005



Sheet Reference No.
G-004

INDEX: 4 OF 43

PROJECT BASELINE COORDINATES

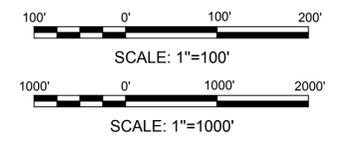
STATION	NORTHING	EASTING
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498+36.53	827,961.11	2,995,099.54
995+35.61	736,372.22	3,035,031.20
1499+91.18	782,952.89	3,016,870.16

C1
G-004
KEY PLAN
SCALE: 1"=1000'

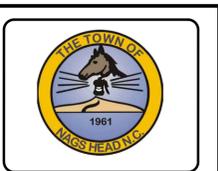
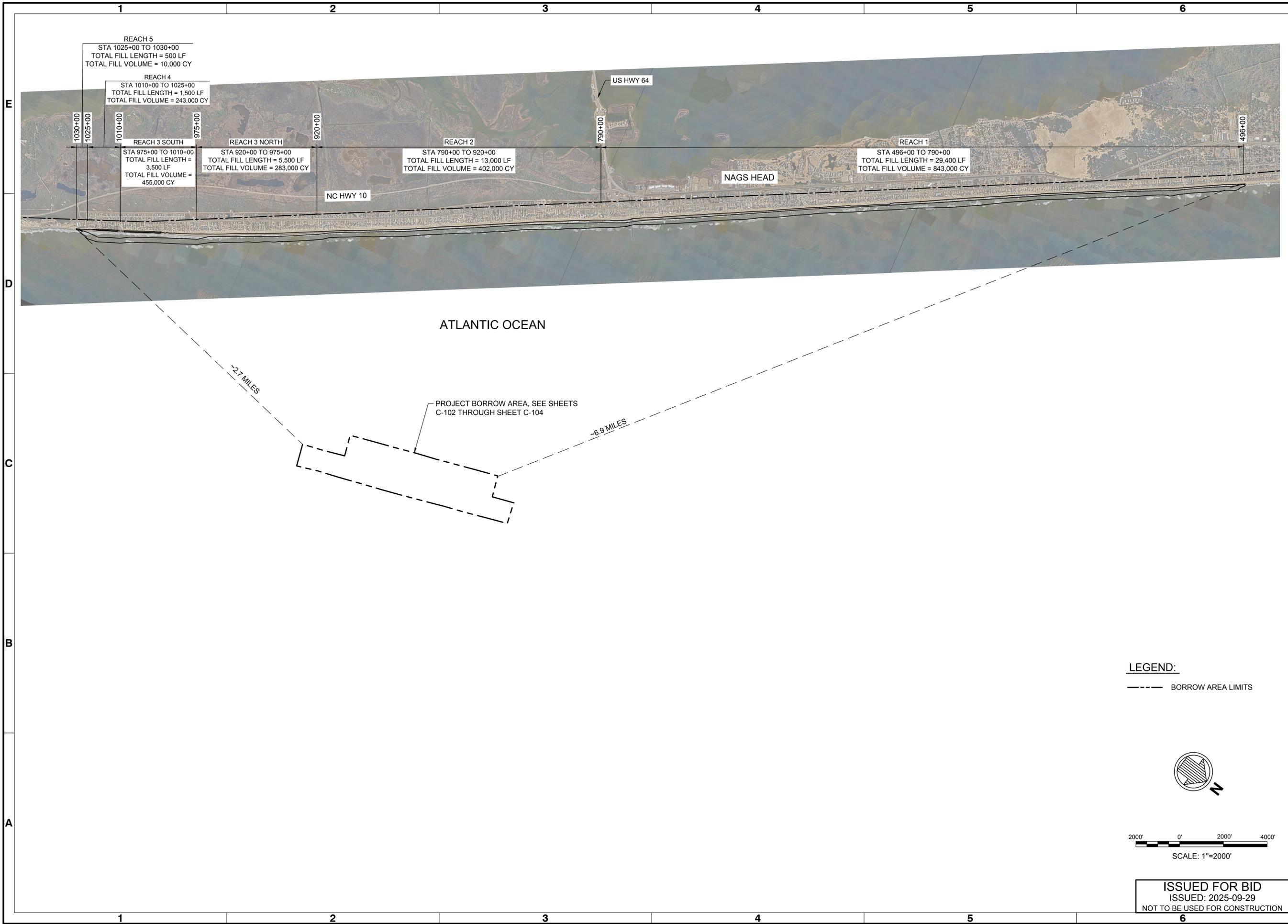


MONUMENT	NORTHING	EASTING	ELEVATION
W 168	806,503.64	3,005,850.14	7.53

A3
G-004
PROJECT GEODETIC CONTROL STATION
SCALE: 1"=100'



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



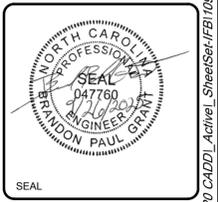
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TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

OVERALL PROJECT PLAN

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	M&N Project No.:	10979-16		
Checked by:	BPG	Drawing code:			
Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS SHOWN
				Plot scale:	1" = (0 SHEET)

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ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-0105

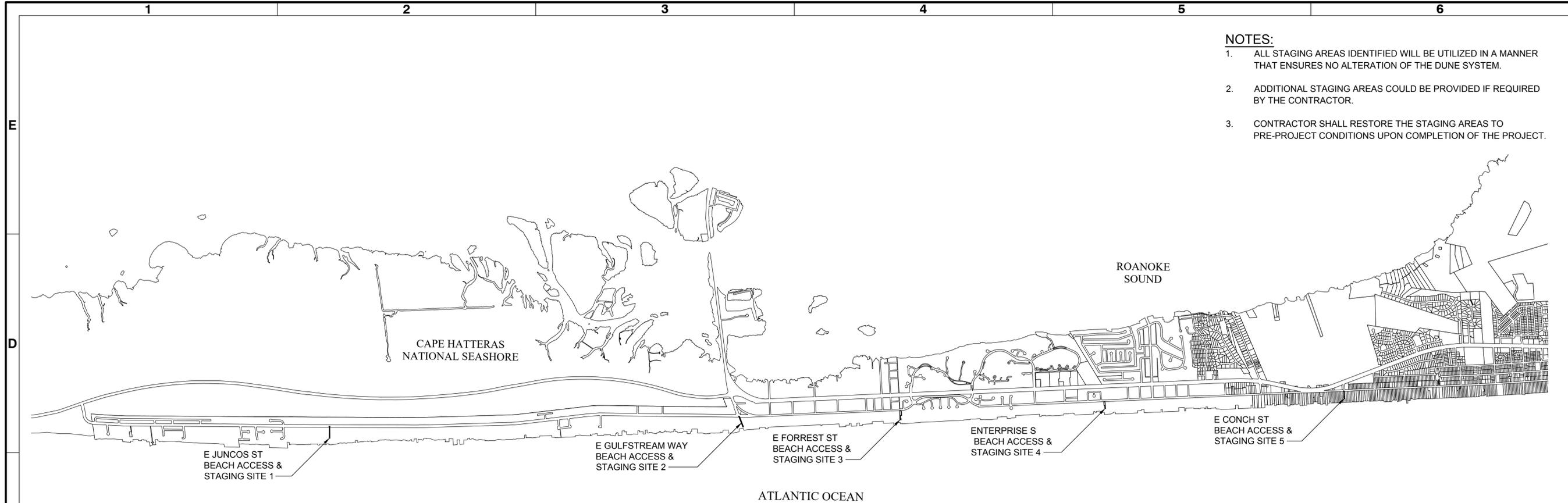


Sheet Reference No.
C-100
INDEX: 5 OF 43

LEGEND:
----- BORROW AREA LIMITS

SCALE: 1"=2000'

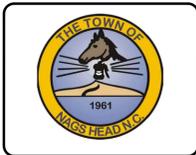
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ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



STAGING AND ACCESS SITE PLAN
NOT TO SCALE

NOTES:

1. ALL STAGING AREAS IDENTIFIED WILL BE UTILIZED IN A MANNER THAT ENSURES NO ALTERATION OF THE DUNE SYSTEM.
2. ADDITIONAL STAGING AREAS COULD BE PROVIDED IF REQUIRED BY THE CONTRACTOR.
3. CONTRACTOR SHALL RESTORE THE STAGING AREAS TO PRE-PROJECT CONDITIONS UPON COMPLETION OF THE PROJECT.



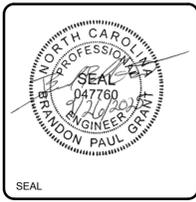
Mark	Description	Date	Appr
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

PROJECT STAGING AND ACCESS PLANS

Designed by:	B. GRANT	Checked by:	BPG
Drawn by:	VNM	Reviewed by:	B. JOYNER
Date:	2025-09-29	M&N Project No.:	10979-16
Drawing code:		Drawing Scale:	AS SHOWN
Submitted by:	MOFFATT & NICHOL	Per scale:	1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005



BEACH ACCESS & STAGING SITE 1 - STA 936+00
NOT TO SCALE



BEACH ACCESS & STAGING SITE 2 - STA 783+00
NOT TO SCALE



BEACH ACCESS & STAGING SITE 3 - STA 722+00
NOT TO SCALE



BEACH ACCESS & STAGING SITE 4 - STA 645+00
NOT TO SCALE



BEACH ACCESS & STAGING SITE 5 - STA 555+00
NOT TO SCALE



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

Sheet Reference No.
C-101
INDEX: 6 OF 43

File: Q:\RAI10979-16\20 CHADD\Active_SheetSet\FBI1097916-C-101 - Plotted: 9/26/2025 11:31 AM by MORGAN, NEKOL - Saved: 8/14/2025 12:06 PM by MORGAN



NOTES:

- BATHYMETRY CONTOURS SHOWN IN FEET REFERENCED TO NAVD88 ARE BASED ON MULTIBEAM SURVEYS PERFORMED BY MCKIM & CREED IN MARCH 2025 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEY.
- BORROW AREA COORDINATES ARE NORTH CAROLINA STATE PLANE, NAD 83 (FEET).

LEGEND:

- A PROPOSED BORROW AREA WORK POINT
- NH-# VIBRACORE LOCATION, SEE SHEET C-103 FOR SEDIMENT CHARACTERISTICS
- PROPOSED DREDGE AREA

PROPOSED BORROW AREA COORDINATE TABLE

POINT	NORTHING	EASTING
A	803,628.77	3,021,901.45
B	803,731.86	3,022,884.64
C	802,759.61	3,023,025.82
D	802,621.64	3,022,040.19
E	802,469.25	3,021,064.15
F	801,488.35	3,021,200.54
G	801,632.63	3,022,185.05
H	801,771.26	3,023,180.34
I	800,765.62	3,023,308.64
J	800,640.92	3,022,331.20
K	800,512.35	3,021,344.39
L	799,651.18	3,022,479.60
M	799,777.63	3,023,464.14
N	797,822.07	3,023,750.23
O	797,673.09	3,022,753.30
P	798,650.62	3,022,604.36
Q	798,532.94	3,021,608.80
R	797,545.59	3,021,758.21
S	796,534.65	3,021,896.15
T	796,710.60	3,022,889.10
U	796,810.12	3,023,874.52
V	795,840.06	3,024,005.58
X	795,541.86	3,022,040.83
Y	794,675.44	3,023,160.38
Z	794,830.71	3,024,117.22
AA	793,850.75	3,024,293.79
BB	793,708.76	3,023,277.85

VIBRACORE TABLE

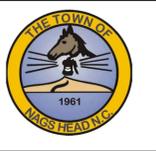
POINT	NORTHING	EASTING
NH-540A	803,188.21	3,022,454.79
NH-606 / NH-606A	796,122.46	3,022,465.38
NH-607 / NH-607A	797,118.09	3,022,313.67
NH-608	798,091.22	3,022,174.90
NH-609 / NH-609A	799,100.24	3,022,072.82
NH-610	800,069.27	3,021,920.87
NH-611	801,080.08	3,021,765.69
NH-612	802,063.18	3,021,620.08
NH-616	794,246.20	3,023,706.81
NH-617	795,285.18	3,023,565.98
NH-618	796,240.05	3,023,404.98
NH-619 / NH-619A	797,283.61	3,023,343.44
NH-620 / NH-620A	798,251.77	3,023,166.58
NH-621 / NH-621A	799,222.12	3,023,021.06
NH-622	800,203.88	3,022,889.38
NH-623	801,211.54	3,022,748.50
NH-624	802,192.70	3,022,599.67

BORROW AREA

ZONE	ACRES	PERMITTED DREDGE EL
BA 1	22.8	-63.0
BA 2	22.7	-64.0
BA 3	23.0	-65.5
BA 4	22.7	-61.5
BA 5	23.0	-66.0
BA 6	22.7	-66.5
BA 7	92.0	-64.0
BA 8	22.9	-61.0
BA 9	23.0	-63.0
BA 10	22.8	-68.0
BA 11	23.2	-61.0
BA 12	23.2	-63.0
BA 13	23.1	-60.5
BA 14	22.5	-65.0
TOTAL	389.6	N/A



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr
0	ISSUED FOR BID	2025-09-29	BPG

**TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026**

BORROW AREA SITE PLAN

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL
Date: 2025-09-29	M&N Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN	Plot scale: 1" = (0 SHEET)

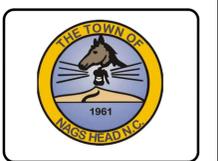
4700 FALLS OF NEUSE RD, SUITE 300
 ROLLS 19178-14626
 NC FIRM NO. F-005

moffatt & nichol



Sheet Reference No.
C-102
 INDEX: 7 OF 43

Vibracore	Sample Number	Sample Interval (ft)				USCS	Granulometric Size Class					Carbonate (%)	Munsell Color		
		Top Depth	Bottom Depth	Top Elev	Bottom Elev		Gravel	Granular	Sand	<#200	<#230		Mean (mm)	Wet	Dry
NH-540A	S1	0.0	4.2	-50.8	-55.0	SW	1.5%	5.7%	91.6%	1.3%	1.2%	0.47	1.3%	10YR-6/2	10YR-7/2
NH-540A	S2	4.2	8.4	-55.0	-59.2	SP	0.0%	0.3%	98.3%	1.6%	1.3%	0.26	1.4%	10YR-6/1	10YR-7/1
NH-540A	S3	8.4	12.5	-59.2	-63.3	SP	0.2%	0.6%	97.5%	2.1%	1.8%	0.26	1.8%	10YR-6/2	10YR-7/2
NH-540A	S4	12.5	17.5	-63.3	-68.3	SM	0.5%	0.8%	56.5%	45.2%	42.2%	0.19	10.1%	10YR-4/2	10YR-6/2
Composite to Maximum Excavation Elevation (-63 ft NAVD88)							0.6%	2.2%	95.7%	1.4%	1.5%	0.33	1.5%		
NH-606 / NH-606A	S1	0.0	4.0	-54.1	-58.1	SW	1.6%	1.3%	95.7%	1.9%	1.5%	0.31	1.5%	10YR-6/2	10YR-7/2
NH-606 / NH-606A	S2	4.0	6.5	-58.1	-60.6	SP-SM	0.7%	2.0%	88.8%	9.9%	8.6%	0.28	2.8%	10YR-5/1	10YR-6/1
NH-606 / NH-606A	S3	6.5	9.0	-60.6	-63.1	SM	0.5%	2.2%	84.6%	13.9%	12.7%	0.24	1.5%	10YR-4/2	10YR-6/2
NH-606 / NH-606A	S4	9.0	11.9	-63.1	-66.0	SW	1.8%	7.9%	88.3%	2.2%	2.0%	0.45	1.2%	10YR-4/2	10YR-6/1
NH-606 / NH-606A	S5	11.9	15.3	-66.0	-69.4	SP-SM	1.0%	1.6%	89.9%	8.4%	7.6%	0.27	1.3%	10YR-4/2	10YR-6/1
NH-606 / NH-606A	S5	15.3	20.0	-69.4	-74.1	ML	8.0%	5.9%	38.7%	51.0%	47.4%	0.47	36.5%	10YR-4/2	10YR-6/2
Composite to Maximum Excavation Elevation (-61 ft NAVD88)							1.2%	1.6%	92.5%	4.7%	2.0%	0.30	2.0%		
NH-607 / NH-607A	S1	0.0	4.5	-54.3	-58.8	SP	0.8%	1.0%	96.5%	2.0%	1.8%	0.34	1.8%	10YR-6/2	10YR-8/2
NH-607 / NH-607A	S2	4.5	8.9	-58.8	-63.2	SP	0.0%	0.3%	96.8%	3.3%	2.9%	0.25	1.5%	10YR-6/2	10YR-7/2
NH-607 / NH-607A	S3	8.9	12.9	-63.2	-67.2	SM	0.1%	0.5%	87.7%	12.7%	11.7%	0.22	2.4%	10YR-3/2	10YR-5/2
NH-607 / NH-607A	S4	12.9	15.0	-67.2	-69.3	SW	1.5%	0.8%	94.9%	3.2%	2.8%	0.31	0.7%	10YR-6/2	10YR-6/2
Composite to Maximum Excavation Elevation (-63 ft NAVD88)							0.4%	0.7%	96.6%	2.3%	1.7%	0.30	1.7%		
NH-608	S1	0.0	4.0	-51.8	-55.8	SW	1.9%	4.0%	93.1%	1.1%	1.0%	0.41	0.9%	10YR-6/2	10YR-7/2
NH-608	S2	4.0	8.1	-55.8	-59.9	SP	0.0%	0.2%	98.1%	2.1%	1.7%	0.27	1.2%	10YR-6/1	10YR-7/1
NH-608	S3	8.1	11.3	-59.9	-63.1	SM	0.1%	0.5%	87.8%	13.0%	11.8%	0.21	1.4%	10YR-4/1	10YR-6/1
NH-608	S4	11.3	13.6	-63.1	-65.4	ML	3.6%	3.4%	27.5%	70.9%	65.6%	0.30	19.0%	10YR-4/1	10YR-6/1
Composite to Maximum Excavation Elevation (-61 ft NAVD88)							0.8%	1.9%	94.7%	2.6%	1.1%	0.32	1.1%		
NH-609 / NH-609A	S1	0.0	4.4	-52.1	-56.5	SW	1.9%	3.3%	93.7%	1.2%	1.1%	0.40	2.4%	10YR-6/2	10YR-7/2
NH-609 / NH-609A	S2	4.4	9.3	-56.5	-61.4	SP	0.1%	0.5%	97.7%	2.0%	1.6%	0.26	1.5%	10YR-6/2	10YR-7/1
NH-609 / NH-609A	S3	9.3	13.5	-61.4	-65.6	SP	0.4%	0.9%	96.0%	3.2%	2.8%	0.29	6.9%	10YR-5/1	10YR-6/1
NH-609 / NH-609A	S4	13.5	18.8	-65.6	-70.9	SP-SM	2.1%	3.6%	89.5%	5.5%	4.8%	0.35	1.4%	10YR-4/2	10YR-6/2
NH-609 / NH-609A	S5	18.8	20.0	-70.9	-72.1	SM	2.7%	4.0%	60.6%	41.4%	32.7%	0.23	13.0%	10YR-4/1	10YR-6/1
Composite to Maximum Excavation Elevation (-64 ft NAVD88)							0.8%	1.6%	95.8%	2.0%	3.0%	0.32	3.0%		
NH-610	S1	0.0	5.0	-51.7	-56.7	SW	5.2%	6.1%	87.6%	1.1%	1.1%	0.49	3.8%	10YR-6/2	10YR-7/2
NH-610	S2	5.0	8.2	-56.7	-59.9	SP	0.8%	0.8%	96.8%	1.7%	1.6%	0.31	1.2%	10YR-6/1	10YR-7/1
NH-610	S3	8.2	12.2	-59.9	-63.9	SP-SM	0.1%	1.3%	92.5%	6.9%	6.1%	0.28	2.8%	10YR-4/1	10YR-6/1
NH-610	S4	12.2	14.3	-63.9	-66.0	SM	2.6%	4.6%	76.7%	19.2%	16.2%	0.35	6.2%	10YR-4/1	10YR-6/1
NH-610	S5	14.3	16.2	-66.0	-67.9	SM	1.6%	1.6%	66.3%	47.2%	30.5%	0.12	10.4%	10YR-4/2	10YR-6/1
Composite to Maximum Excavation Elevation (-64 ft NAVD88)							2.4%	3.2%	91.4%	3.4%	2.9%	0.37	2.9%		
NH-611	S1	0.0	5.0	-51.6	-56.6	SW	2.3%	5.1%	89.2%	3.6%	3.4%	0.44	2.1%	10YR-6/1	10YR-7/1
NH-611	S2	5.0	10.1	-56.6	-61.7	SW	2.1%	2.0%	94.5%	1.7%	1.4%	0.31	1.5%	10YR-5/1	10YR-7/1
NH-611	S3	10.1	15.0	-61.7	-66.6	SM	9.6%	3.3%	63.4%	31.7%	23.7%	0.25	11.2%	10YR-4/3	10YR-6/2
Composite to Maximum Excavation Elevation (-61.5 ft NAVD88)							2.2%	3.5%	91.9%	2.4%	1.8%	0.38	1.8%		
NH-612	S1	0.0	3.9	-56.4	-60.3	SW	2.3%	4.1%	92.5%	1.2%	1.1%	0.44	0.8%	10YR-6/2	10YR-7/2
NH-612	S2	3.9	8.4	-60.3	-64.8	SW	1.4%	2.1%	94.6%	2.1%	1.9%	0.31	1.7%	10YR-6/1	10YR-7/1
NH-612	S3	8.4	10.4	-64.8	-66.8	SW	1.3%	4.7%	90.0%	4.6%	4.1%	0.38	2.5%	10YR-5/1	10YR-6/1
NH-612	S4	10.4	11.5	-66.8	-67.9	SM	1.5%	2.4%	76.6%	27.5%	19.5%	0.31	10.4%	10YR-5/2	10YR-6/2
NH-612	S5	11.5	14.9	-67.9	-71.3	ML	0.1%	0.7%	53.9%	59.3%	45.4%	0.10	12.2%	10YR-4/3	10YR-5/2
Composite to Maximum Excavation Elevation (-64 ft NAVD88)							1.9%	3.1%	93.5%	1.7%	1.3%	0.38	1.3%		
NH-616	S1	0.0	4.0	-50.4	-54.4	SW	1.0%	2.3%	95.8%	1.0%	0.9%	0.41	1.6%	10YR-5/2	10YR-7/2
NH-616	S2	4.0	8.0	-54.4	-58.4	SP	0.1%	0.5%	98.2%	1.4%	1.2%	0.29	1.6%	10YR-6/1	10YR-7/1
NH-616	S3	8.0	12.2	-58.4	-62.6	SP	0.3%	0.4%	98.1%	1.5%	1.3%	0.28	1.0%	10YR-6/1	10YR-7/1
NH-616	S4	12.2	15.7	-62.6	-66.1	SW	1.5%	3.7%	90.7%	4.9%	4.1%	0.29	4.8%	10YR-5/1	10YR-7/1
NH-616	S5	15.7	17.1	-66.1	-67.5	SM	0.0%	0.2%	71.7%	34.8%	28.1%	0.11	10.6%	10YR-4/2	10YR-6/2
Composite to Maximum Excavation Elevation (-65 ft NAVD88)							0.6%	1.5%	96.3%	1.9%	2.0%	0.32	2.0%		
NH-617	S1	0.0	4.5	-50.4	-54.9	SW	1.0%	1.5%	96.6%	0.9%	0.9%	0.40	1.8%	10YR-6/2	10YR-7/2
NH-617	S2	4.5	8.4	-54.9	-58.8	SP	4.6%	4.7%	89.1%	1.9%	1.6%	0.41	4.0%	10YR-6/1	10YR-7/1
NH-617	S3	8.4	10.2	-58.8	-60.6	SP-SM	0.6%	1.5%	91.8%	6.5%	6.1%	0.27	2.0%	10YR-5/1	10YR-7/1
NH-617	S4	10.2	12.1	-60.6	-62.5	SM	9.7%	7.1%	63.2%	26.0%	20.0%	0.34	7.4%	10YR-4/1	10YR-5/1
NH-617	S5	12.1	13.5	-62.5	-63.9	ML	0.0%	0.4%	24.7%	78.5%	74.9%	0.13	21.9%	10YR-4/2	10YR-6/2
NH-617	S5	13.5	15.0	-63.9	-65.4	SM	0.7%	0.7%	74.2%	36.3%	24.5%	0.11	11.9%	10YR-4/2	10YR-6/2
Composite to Maximum Excavation Elevation (-60.5 ft NAVD88)							1.2%	1.5%	93.1%	4.1%	2.0%	0.30	2.0%		
NH-618	S1	0.0	3.6	-51.1	-54.7	SW	2.1%	2.6%	94.3%	1.1%	1.0%	0.41	1.6%	10YR-6/2	10YR-7/2
NH-618	S2	3.6	7.2	-54.7	-58.3	SW	1.0%	2.1%	95.1%	1.9%	1.7%	0.39	1.2%	10YR-6/1	10YR-7/1
NH-618	S3	7.2	11.1	-58.3	-62.2	SW	4.7%	11.6%	81.3%	2.4%	2.2%	0.53	3.8%	10YR-6/1	10YR-7/1
NH-618	S4	11.1	12.2	-62.2	-63.3	SP-SM	0.2%	1.3%	90.1%	10.1%	8.4%	0.22	2.8%	10YR-4/1	10YR-6/1
NH-618	S5	12.2	17.2	-63.3	-68.3	SM	0.7%	1.3%	64.1%	40.8%	33.9%	0.13	14.5%	10YR-4/2	10YR-6/2
Composite to Maximum Excavation Elevation (-63 ft NAVD88)							2.5%	5.4%	90.0%	2.4%	2.3%	0.43	2.3%		
NH-619 / NH-619A	S1	0.0	4.5	-48.0	-52.5	SW	4.2%	7.3%	87.8%	0.8%	0.7%	0.60	2.0%	10YR-6/3	10YR-7/2
NH-619 / NH-619A	S2	4.5	8.5	-52.5	-56.5	SW	3.4%	4.7%	90.8%	1.2%	1.1%	0.52	3.1%	10YR-6/2	10YR-7/2
NH-619 / NH-619A	S3	8.5	9.8	-56.5	-57.8	SP	0.3%	0.5%	96.9%	2.6%	2.3%	0.36	1.4%	10YR-5/1	10YR-7/1
NH-619 / NH-619A	S4	9.8	15.1	-57.8	-63.1	SW	1.0%	4.2%	93.6%	1.2%	1.2%	0.40	2.5%	10YR-6/2	10YR-7/2
NH-619 / NH-619A	S5	15.1	20.0	-63.1	-68.0	SW	0.5%	2.4%	94.1%	3.7%	3.0%	0.28	2.3%	10YR-4/1	10YR-6/1
Composite to Maximum Excavation Elevation (-68 ft NAVD88)							2.0%	4.3%	92.1%	1.8%	2.4%	0.44	2.4%		
NH-620 / NH-620A	S1	0.0	3.8	-49.8	-53.6	SW	3.2%	5.4%	90.4%	0.9%	0.9%	0.54	3.1%	10YR-6/2	10YR-7/2
NH-620 / NH-620A	S2	3.8	7.6	-53.6	-57.4	SW	2.2%	1.7%	95.2%	0.9%	0.9%	0.43	4.1%	10YR-6/2	10YR-7/2
NH-620 / NH-620A	S3	7.6	11.1	-57.4	-60.9	SW	0.5%	1.7%	93.8%	4.4%	4.0%	0.36	3.0%	10YR-6/2	10YR-7/2
NH-620 / NH-620A	S4	11.1	14.5	-60.9	-64.3	SP	0.2%	0.9%	96.7%	2.5%	2.2%	0.31	1.4%	10YR-5/1	10YR-6/1
NH-620 / NH-620A	S5	14.5	19.2	-64.3	-69.0	SM	0.5%	1.1%	85.2%	14.6%	13.2%	0.24	4.2%	10YR-4/1	10YR-5/1
Composite to Maximum Excavation Elevation (-64 ft NAVD88)							1.6%	2.5%							

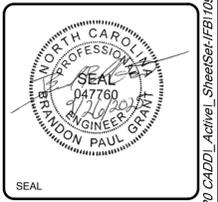


Rev.	Date	Description
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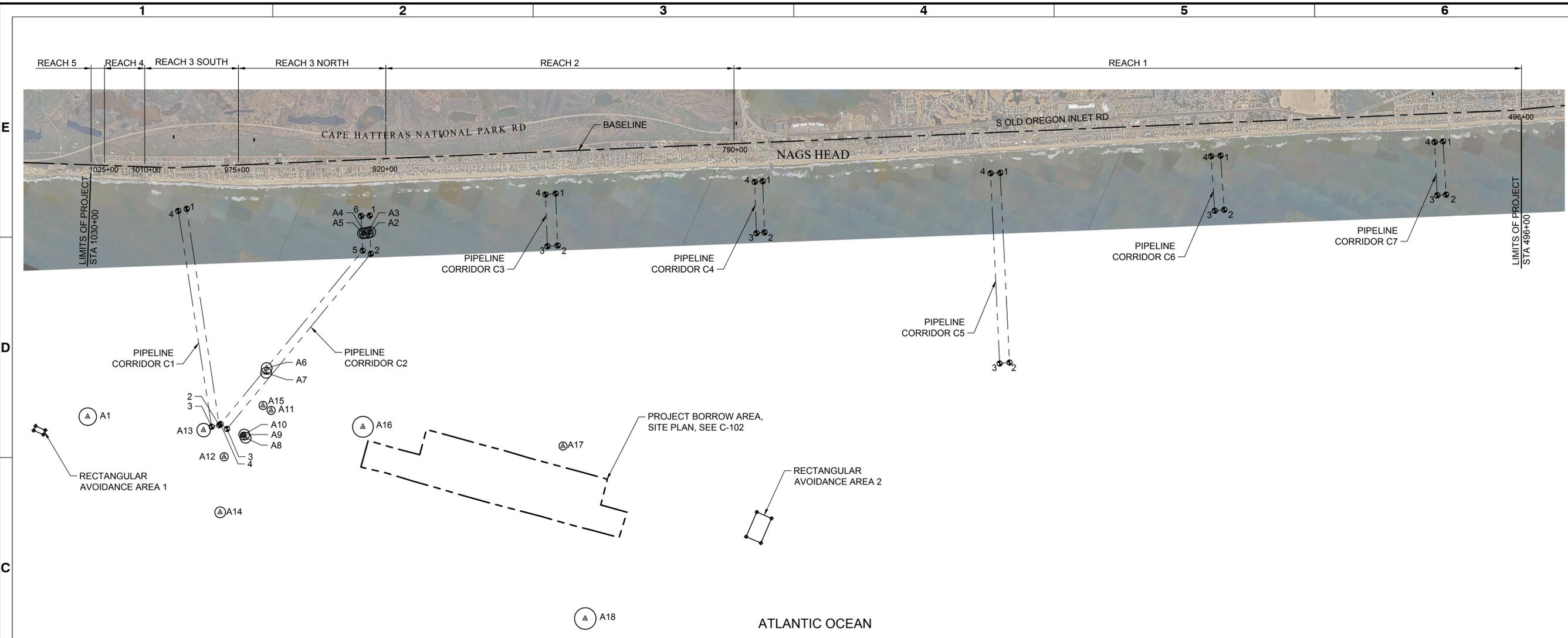
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026
PIPELINE CORRIDOR PLAN

Designed by:	B. GRANT	Drawn by:	VNM	Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL
Date:	2025-09-29	MAN Project No.:	10979-16	Drawing code:		Drawing Scale:	AS SHOWN
Per scale:	1" = (0 SHEET)						

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28581
 P: 919.781.4626
 NC FIRM NO. F-005
moffatt & nichol



Sheet Reference No.
C-104
 INDEX: 9 OF 43



LEGEND:
 PIPELINE CORRIDOR WORKPOINT
 CIRCULAR AVOIDANCE AREAS (SEE TABLE FOR BUFFER SIZE)

POINT	NORTHING	EASTING
1	784,075.98	3,018,047.61
2	788,383.64	3,024,959.55
3	788,145.27	3,025,122.24
4	783,815.62	3,018,242.99

POINT	NORTHING	EASTING
1	790,442.89	3,015,568.44
2	791,043.64	3,016,860.17
3	788,703.38	3,024,971.24
4	788,408.33	3,024,898.35
5	790,717.26	3,016,874.12
6	790,151.18	3,015,714.27

POINT	NORTHING	EASTING
1	796,483.89	3,012,069.63
2	797,317.22	3,013,814.39
3	796,978.75	3,013,991.47
4	796,145.44	3,012,251.89

POINT	NORTHING	EASTING
1	803,390.11	3,008,585.36
2	804,207.89	3,010,309.19
3	803,942.28	3,010,455.01
4	803,124.55	3,008,725.82

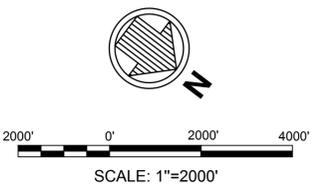
POINT	NORTHING	EASTING
1	811,396.94	3,004,787.54
2	814,516.89	3,011,131.22
3	814,194.00	3,011,308.25
4	811,074.07	3,004,943.80

POINT	NORTHING	EASTING
1	818,688.33	3,000,938.252
2	819,612.84	3,002,735.04
3	819,303.04	3,002,906.83
4	818,373.33	3,001,099.57

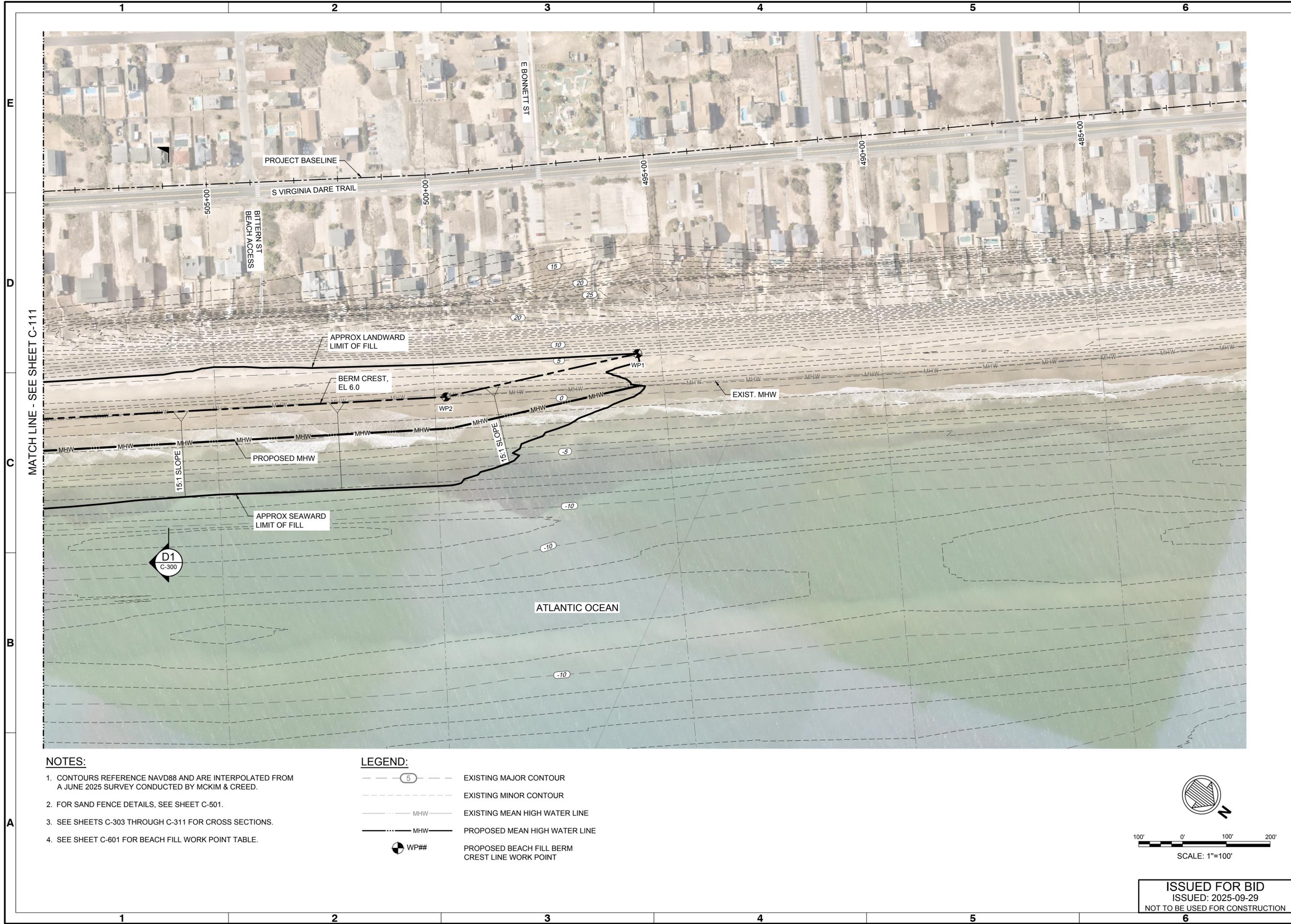
POINT	NORTHING	EASTING
1	826,094.86	2,997,160.03
2	826,988.05	2,998,936.00
3	826,693.92	2,999,089.60
4	825,818.91	2,997,311.02

AREA	NORTHING	EASTING	BUFFER DIAMETER (FT)
A1	783,753.10	3,026,611.90	650
A2	790,700.30	3,016,129.20	400
A3	790,625.30	3,016,192.40	400
A4	790,530.90	3,016,237.80	400
A5	790,473.90	3,016,276.20	400
A6	789,163.70	3,022,307.30	400
A7	789,215.40	3,022,473.60	400
A8	789,472.80	3,024,998.00	400
A9	789,376.90	3,024,911.80	400
A10	789,339.50	3,024,945.80	200
A11	789,941.80	3,023,686.50	300
A12	789,017.60	3,025,966.10	300
A13	787,920.60	3,025,358.20	500
A14	789,701.40	3,027,921.10	400
A15	789,589.70	3,023,638.10	300
A16	793,327.20	3,022,889.20	775
A17	800,461.10	3,020,586.90	300
A18	803,768.90	3,026,151.80	800

NORTHING	EASTING
RECTANGULAR AREA 1	
782,104.10	3,027,702.60
782,104.10	3,027,882.60
782,504.10	3,027,882.60
782,504.10	3,027,702.60
RECTANGULAR AREA 2	
808,068.80	3,019,974.20
808,068.80	3,020,974.20
808,668.80	3,020,974.20
808,668.80	3,019,974.20

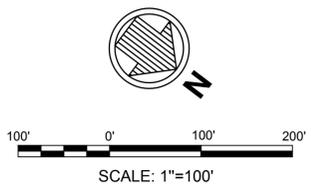


ISSUED FOR BID
 ISSUED: 2025-09-29
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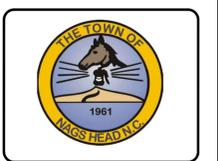


- NOTES:**
1. CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 2. FOR SAND FENCE DETAILS, SEE SHEET C-501.
 3. SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 4. SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.

- LEGEND:**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - MHW EXISTING MEAN HIGH WATER LINE
 - MHW PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



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ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Rev.	Date	Description
0	2025-09-29	BFG
		ISSUED FOR BID

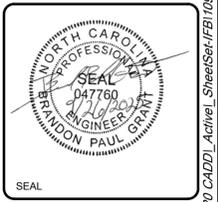
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 1 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev.	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BFG		
Submitted by:	MOFFATT & NICHOL	Drawing code:			
		Drawing Scale:	AS SHOWN		
		Plot Scale:	1" = 100'		

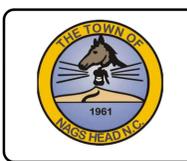
4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28581
 NC FIRM NO. F-0105

moffatt & nichol



Sheet Reference No.
C-110

INDEX: 10 OF 43



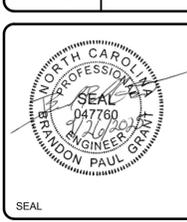
Rev.	Date	Description	By
0	2025-09-29	ISSUED FOR BID	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 2 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Checked by:	BPG	Drawing code:			
Reviewed by:	B. JOYNER	AS SHOWN			
Submitted by:	MOFFATT & NICHOL	Per scale:	1" = 10' (0 SHEET)		

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-005

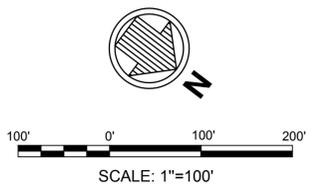


Sheet Reference No.
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INDEX: 11 OF 43

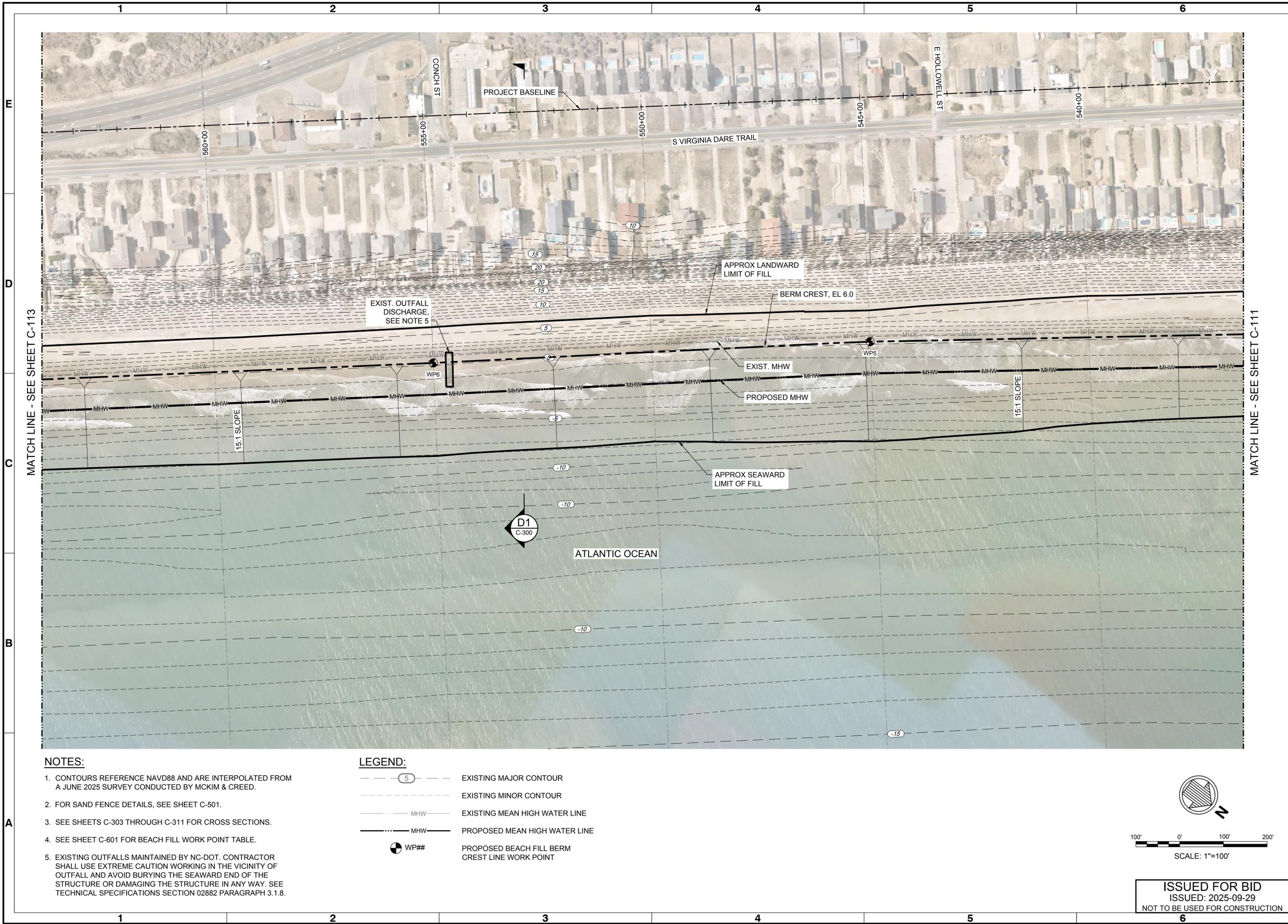


- NOTES:**
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 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.
 - EXISTING OUTFALLS MAINTAINED BY NC-DOT. CONTRACTOR SHALL USE EXTREME CAUTION WORKING IN THE VICINITY OF OUTFALL AND AVOID BURYING THE SEAWARD END OF THE STRUCTURE OR DAMAGING THE STRUCTURE IN ANY WAY. SEE TECHNICAL SPECIFICATIONS SECTION 02882 PARAGRAPH 3.1.8.

- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C3 C-501
 - 5 EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - MHW EXISTING MEAN HIGH WATER LINE
 - MHW PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT

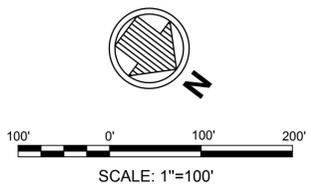


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ISSUED: 2025-09-29
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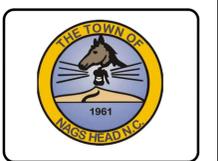


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- LEGEND:**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr
0	ISSUED FOR BID	2025-09-29	BPG

**TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026**

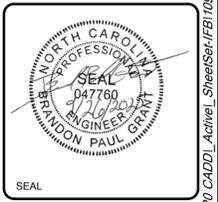
**SITE PLAN
SHEET 3 OF 20**

Designed by: B. GRANT	Drawn by: VNM	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL
Date: 2025-09-29	MAN Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN
Per scale: 1" = 10'	Per scale: 1" = 10' (0 SHEET)		

4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
NC FIRM NO. F-005

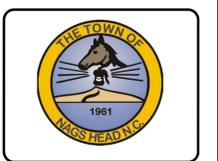
moffatt & nichol

Submitted by:
MOFFATT & NICHOL



Sheet Reference No.
C-112

INDEX: 12 OF 43



Mark	Description	Date	Appr.
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TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

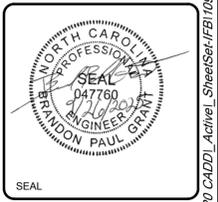
SITE PLAN
SHEET 4 OF 20

Rev.	Date	By	Description
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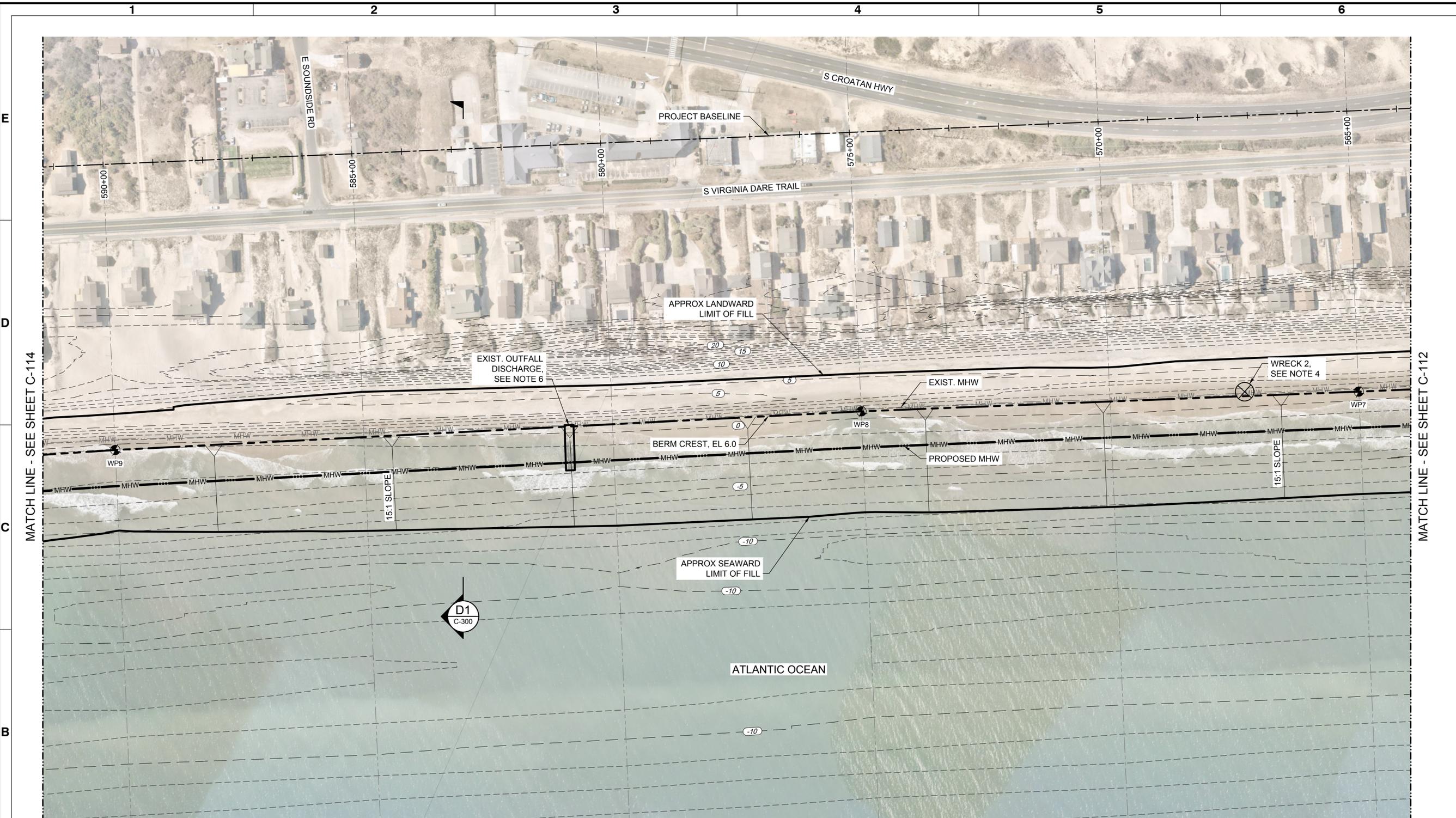
4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005

Designed by: B. GRANT
Drawn by: VNM
Reviewed by: B. JOYNER
Submitted by: MOFFATT & NICHOL

MAN Project No. 10979-16
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1"=100'

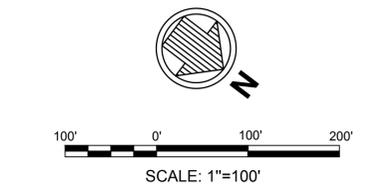


Sheet Reference No.
C-113
INDEX: 13 OF 43

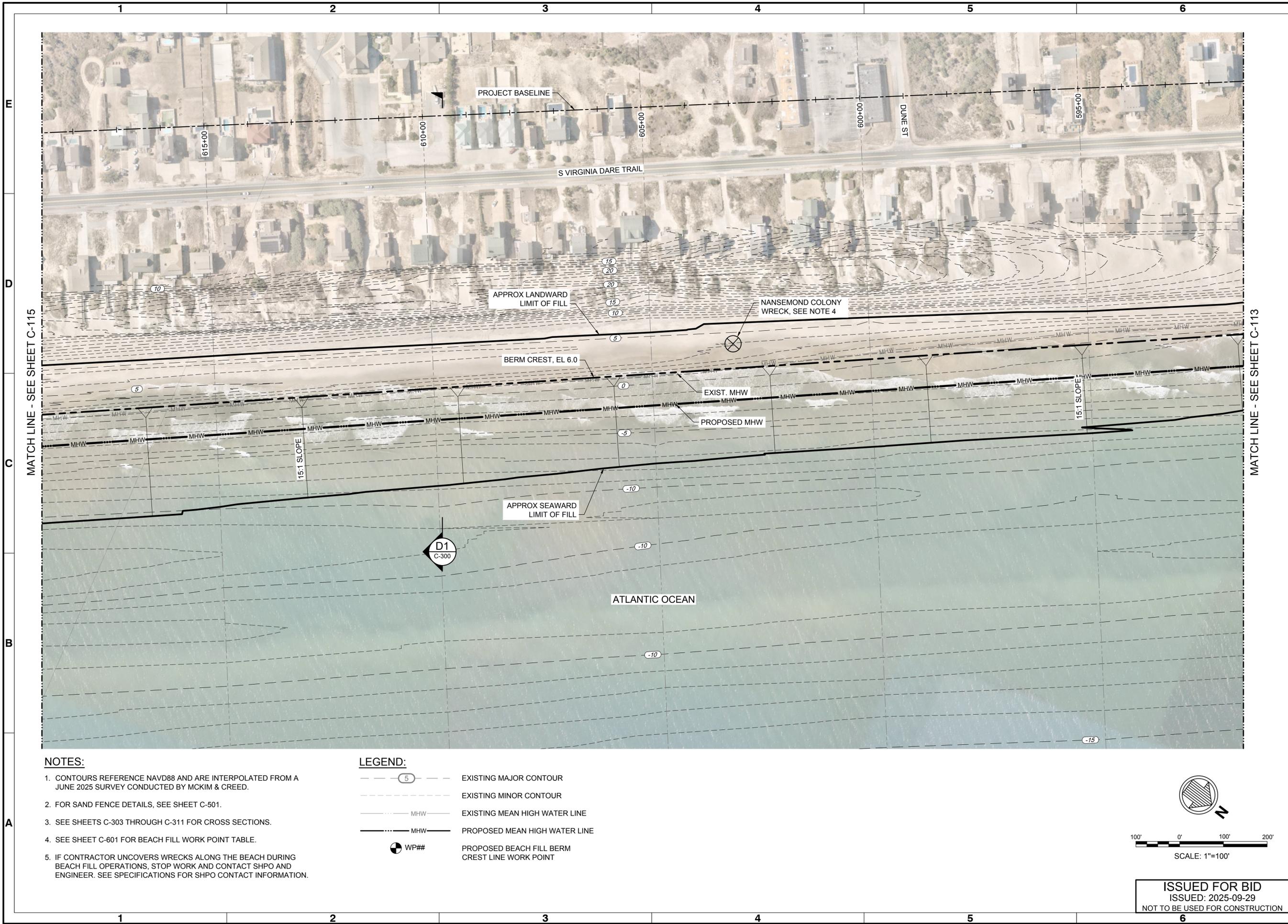


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - IF CONTRACTOR UNCOVERS WRECKS ALONG THE BEACH DURING BEACH FILL OPERATIONS, STOP WORK AND CONTACT SHPO AND ENGINEER. SEE SPECIFICATIONS FOR SHPO CONTACT INFORMATION.
 - EXISTING OUTFALLS MAINTAINED BY NC-DOT. CONTRACTOR SHALL USE EXTREME CAUTION WORKING IN THE VICINITY OF OUTFALL AND AVOID BURYING THE SEAWARD END OF THE STRUCTURE OR DAMAGING THE STRUCTURE IN ANY WAY. SEE TECHNICAL SPECIFICATIONS SECTION 02882 PARAGRAPH 3.1.8.

- LEGEND:**
- (5)--- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - MHW --- EXISTING MEAN HIGH WATER LINE
 - MHW --- PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT

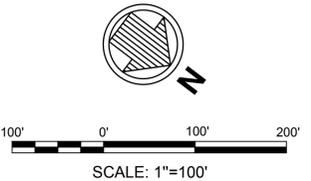


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ISSUED: 2025-09-29
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- NOTES:**
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 - MHW EXISTING MEAN HIGH WATER LINE
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 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



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 ISSUED: 2025-09-29
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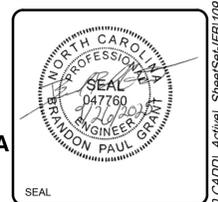
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0	2025-09-29	ISSUED FOR BID

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

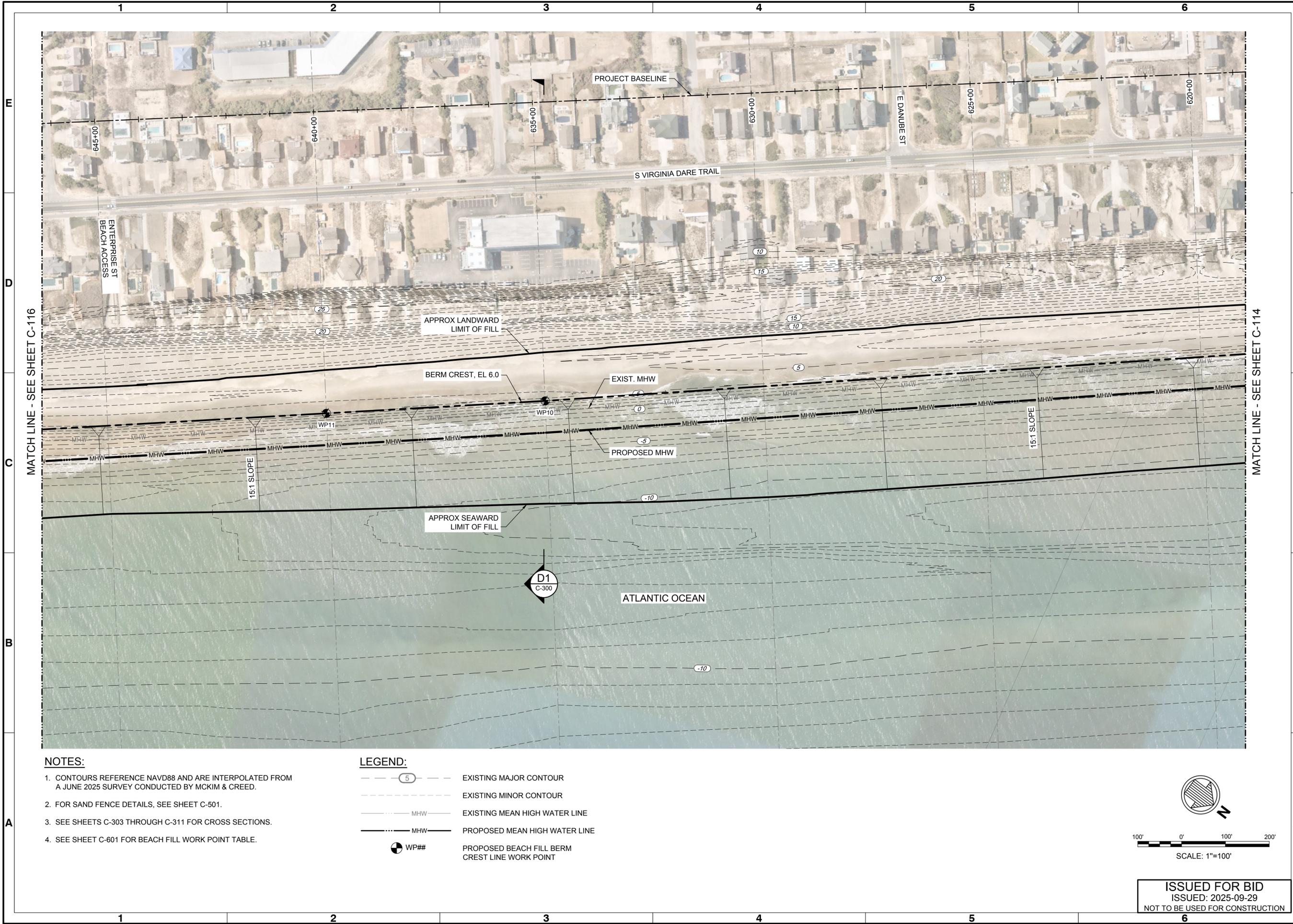
SITE PLAN
SHEET 5 OF 20

Designed by: B. GRANT	Date: 2025-09-29	Rev. 0
Drawn by: VNM	MAN Project No. 10979-16	
Reviewed by: B. JOYNER	Drawn by: BPG	
Submitted by: MOFFATT & NICHOL	Drawing code: AS SHOWN	
Per scale: 1"=100'		

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28581
 MOFFATT & NICHOL
 NC FIRM NO. F-005

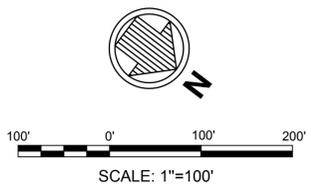


Sheet Reference No.
C-114
 INDEX: 14 OF 43

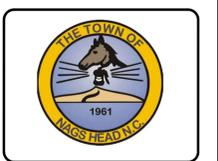


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 2. FOR SAND FENCE DETAILS, SEE SHEET C-501.
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- LEGEND:**
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 - EXISTING MEAN HIGH WATER LINE
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ISSUED FOR BID
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0	ISSUED FOR BID	2025-09-29	BPG

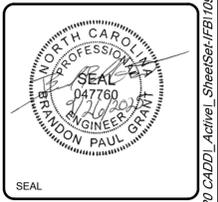
TOWN OF NAGS HEAD BEACH
 RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 6 OF 20

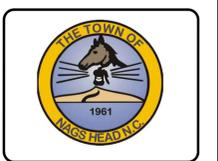
Designed by: B. GRANT	Date: 2025-09-29	Rev: 0
Drawn by: VNM	MAN Project No. 10979-16	
Reviewed by: B. JOYNER	Drawn by: BPG	
Submitted by: MOFFATT & NICHOL	Drawing code: AS SHOWN	
Per scale: 1" = 100'		

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28581
 NC FIRM NO. F-0105

moffatt & nichol



Sheet Reference No.
C-115
 INDEX: 15 OF 43



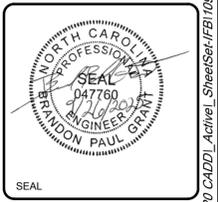
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0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 7 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Submitted by:	B. JOYNER	Drawing Scale:	AS SHOWN
				Per scale:	1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-005

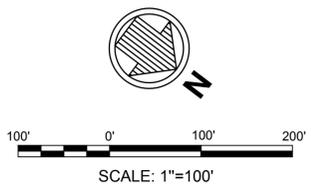


Sheet Reference No.
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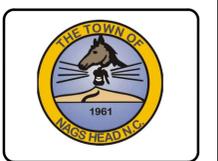


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 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.

- LEGEND:**
- (5)--- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - MHW --- EXISTING MEAN HIGH WATER LINE
 - MHW --- PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



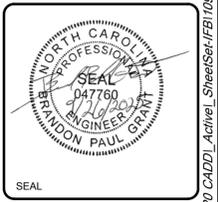
Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 8 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Reviewed by:	AS SHOWN	Drawing Scale:	AS SHOWN
		Submitted by:	MOFFATT & NICHOL	Per scale:	1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-005

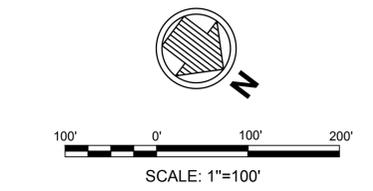


Sheet Reference No.
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INDEX: 17 OF 43

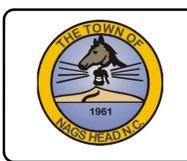


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 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.

- LEGEND:**
- TYPE A SAND FENCE, SEE C3 C-501
 - TYPE C SAND FENCE, SEE A3 C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

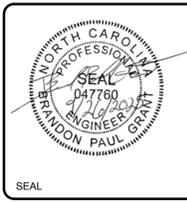


Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026
SITE PLAN
SHEET 9 OF 20

Designed by: B. GRANT	Date: 2025-09-29	Rev: 0
Drawn by: VNM	MAN Project No: 10979-16	
Reviewed by: B. JOYNER	Drawn code:	
Submitted by: MOFFATT & NICHOL	Drawing Scale: AS SHOWN	Per Scale: 1" = 10' (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28589
 NC FIRM NO. F-005
moffatt & nichol

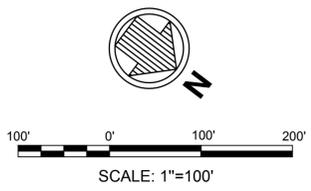


Sheet Reference No.
C-118
 INDEX: 18 OF 43

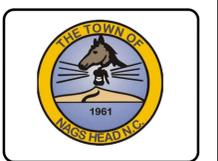


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.

- LEGEND:**
- TYPE A SAND FENCE, SEE C3 C-501
 - TYPE C SAND FENCE, SEE A3 C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
 ISSUED: 2025-09-29
 NOT TO BE USED FOR CONSTRUCTION



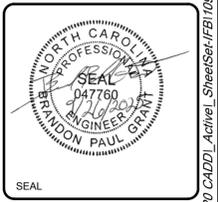
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TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

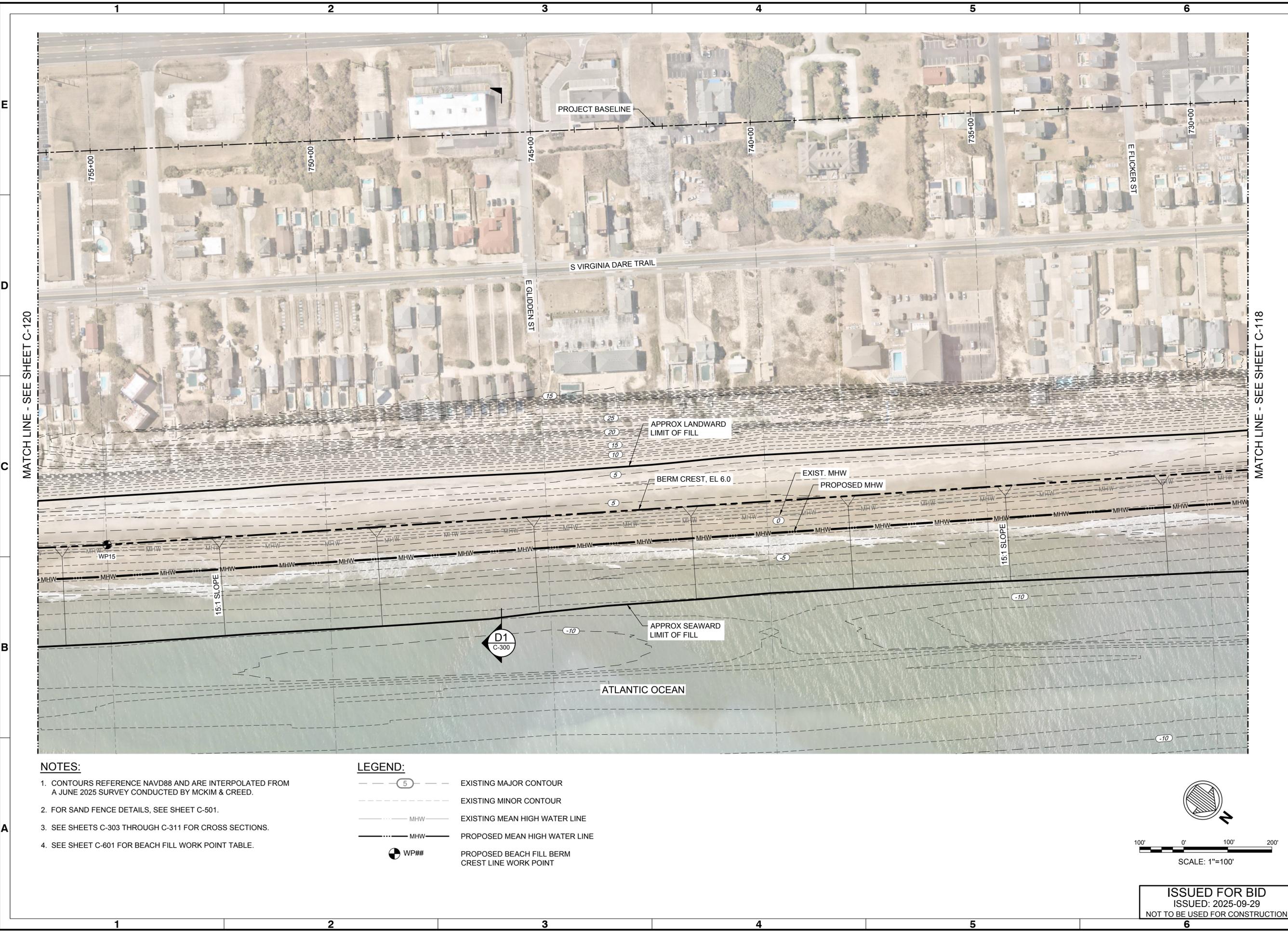
SITE PLAN
SHEET 10 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev.	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG		
Submitted by:	MOFFATT & NICHOL	Drawing code:			
		Drawing Scale:	AS SHOWN		
		Per scale:	1" = 10' (0 SHEET)		

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005



Sheet Reference No.
C-119
INDEX: 19 OF 43

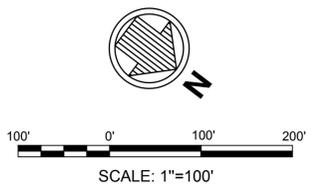


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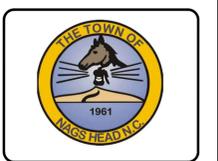


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - IF CONTRACTOR UNCOVERS WRECKS ALONG THE BEACH DURING BEACH FILL OPERATIONS, STOP WORK AND CONTACT SHPO AND ENGINEER. SEE SPECIFICATIONS FOR SHPO CONTACT INFORMATION.

- LEGEND:**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr
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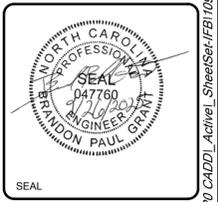
**TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026**

**SITE PLAN
SHEET 11 OF 20**

Designed by: B. GRANT	Date: 2025-09-29	Rev: 0
Dwn by: VNM	MAN Project No: 10979-16	
Reviewed by: B. JOYNER	Drawing code:	
Submitted by: MCFATT & NICHOL	Drawing Scale: AS SHOWN	Per Scale: 1" = 10' (0 SHEET)

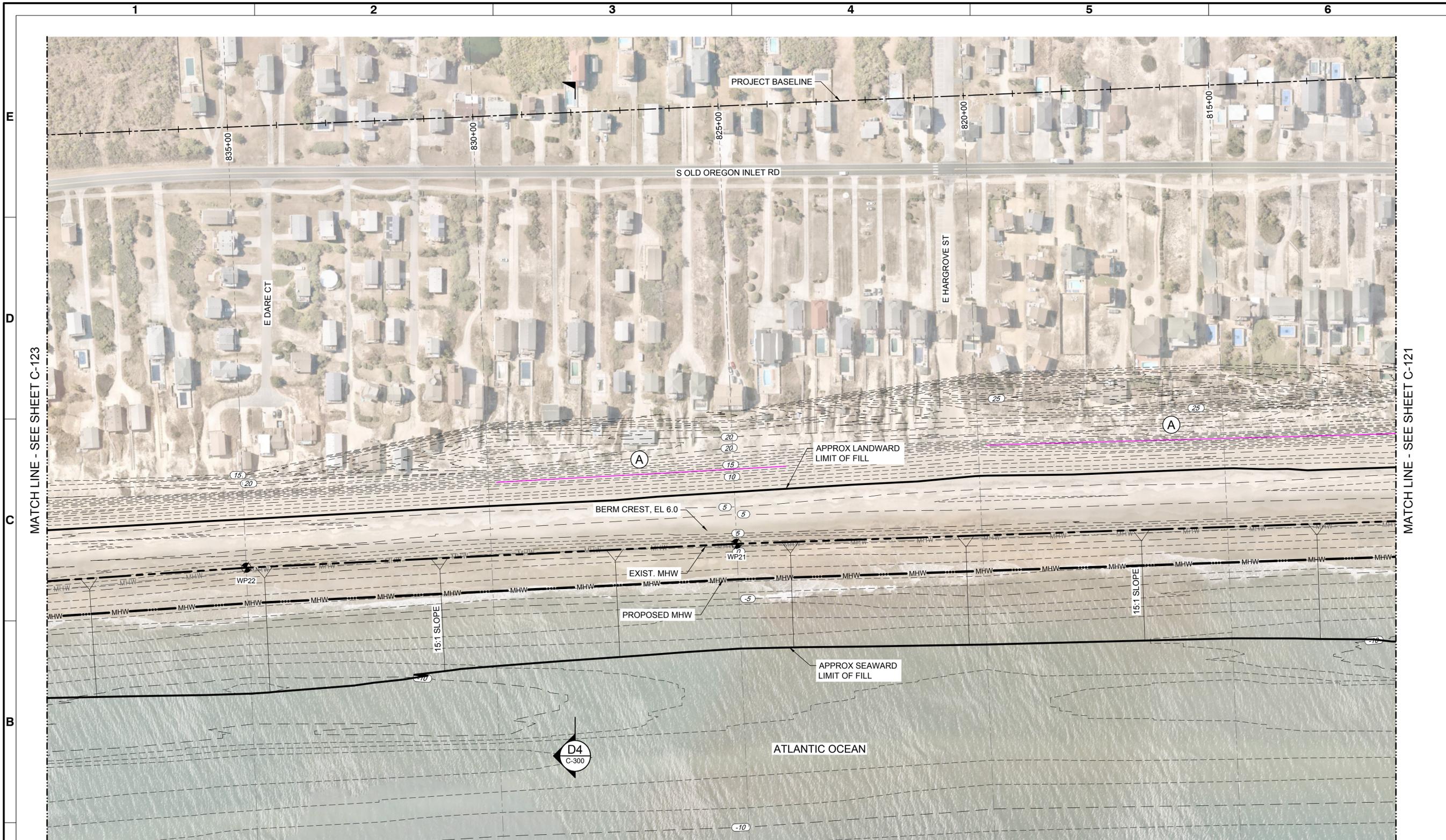
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Raleigh, NC 27609
NC FIRM NO. F-0105

moffatt & nichol



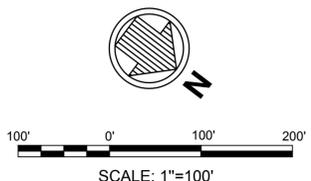
Sheet Reference No.
C-120

INDEX: 20 OF 43



- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.

- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C3 C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr
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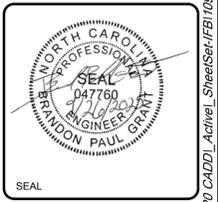
**TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026**

**SITE PLAN
SHEET 13 OF 20**

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawn by:		Drawing Scale:	AS SHOWN
				Per Scale:	1" = 100' (0 SHEET)

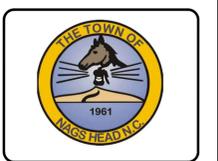
4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
NC FIRM NO. F-005

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Sheet Reference No.
C-122

INDEX: 22 OF 43



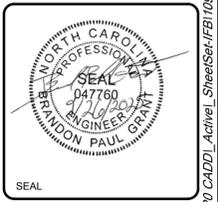
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0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

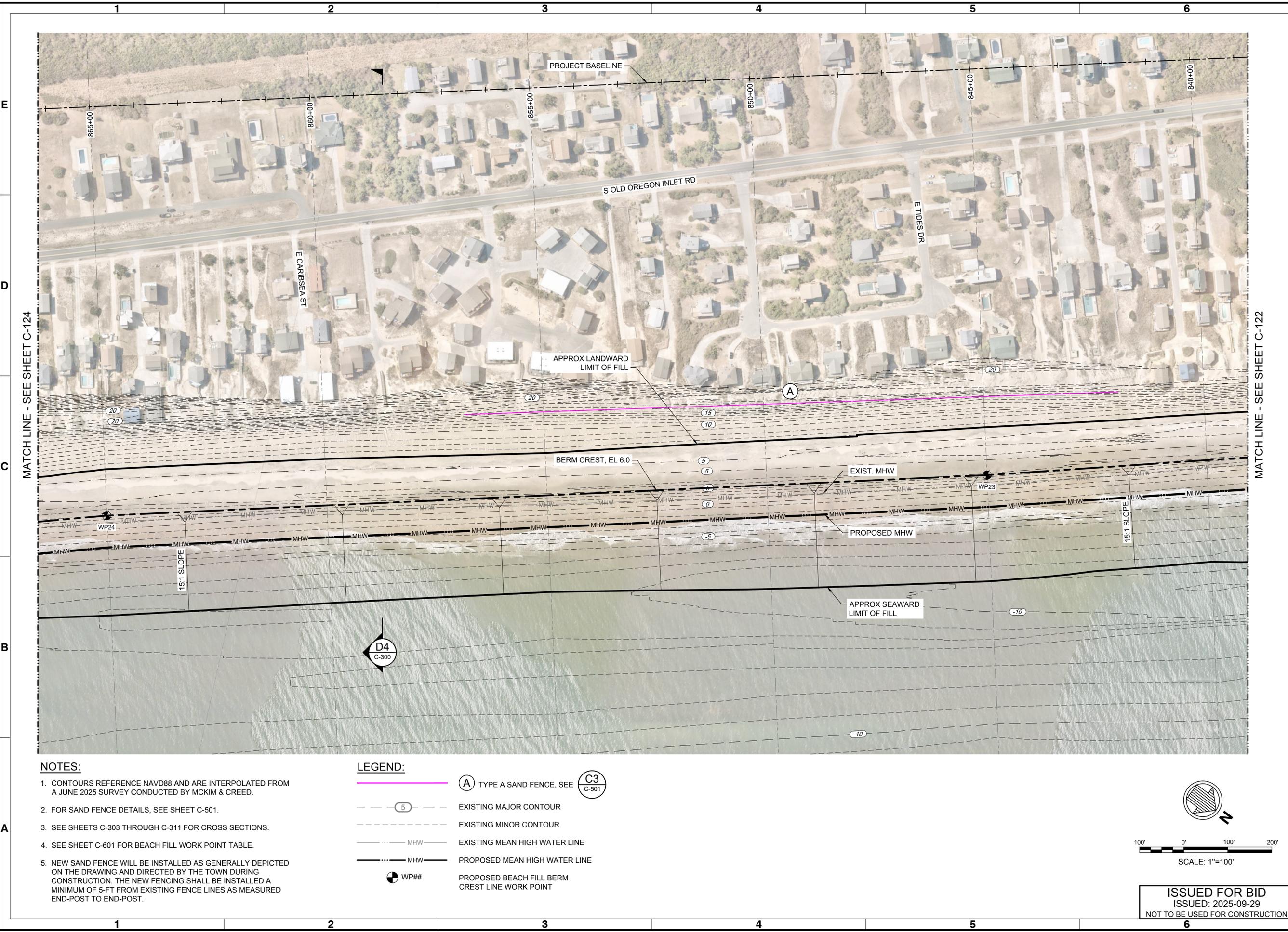
SITE PLAN
SHEET 14 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Submitted by:	AS SHOWN	Per scale:	1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005

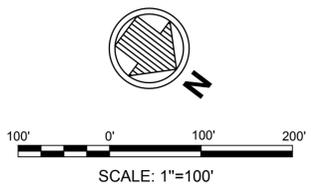


Sheet Reference No.
C-123
INDEX: 23 OF 43

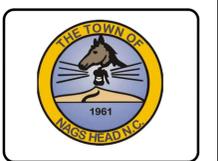


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.

- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C-501
 - (5) EXISTING MAJOR CONTOUR
 - (10) EXISTING MINOR CONTOUR
 - MHW EXISTING MEAN HIGH WATER LINE
 - MHW PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



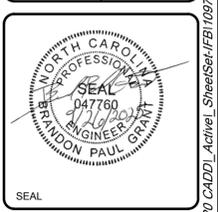
Rev.	Date	Description
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TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

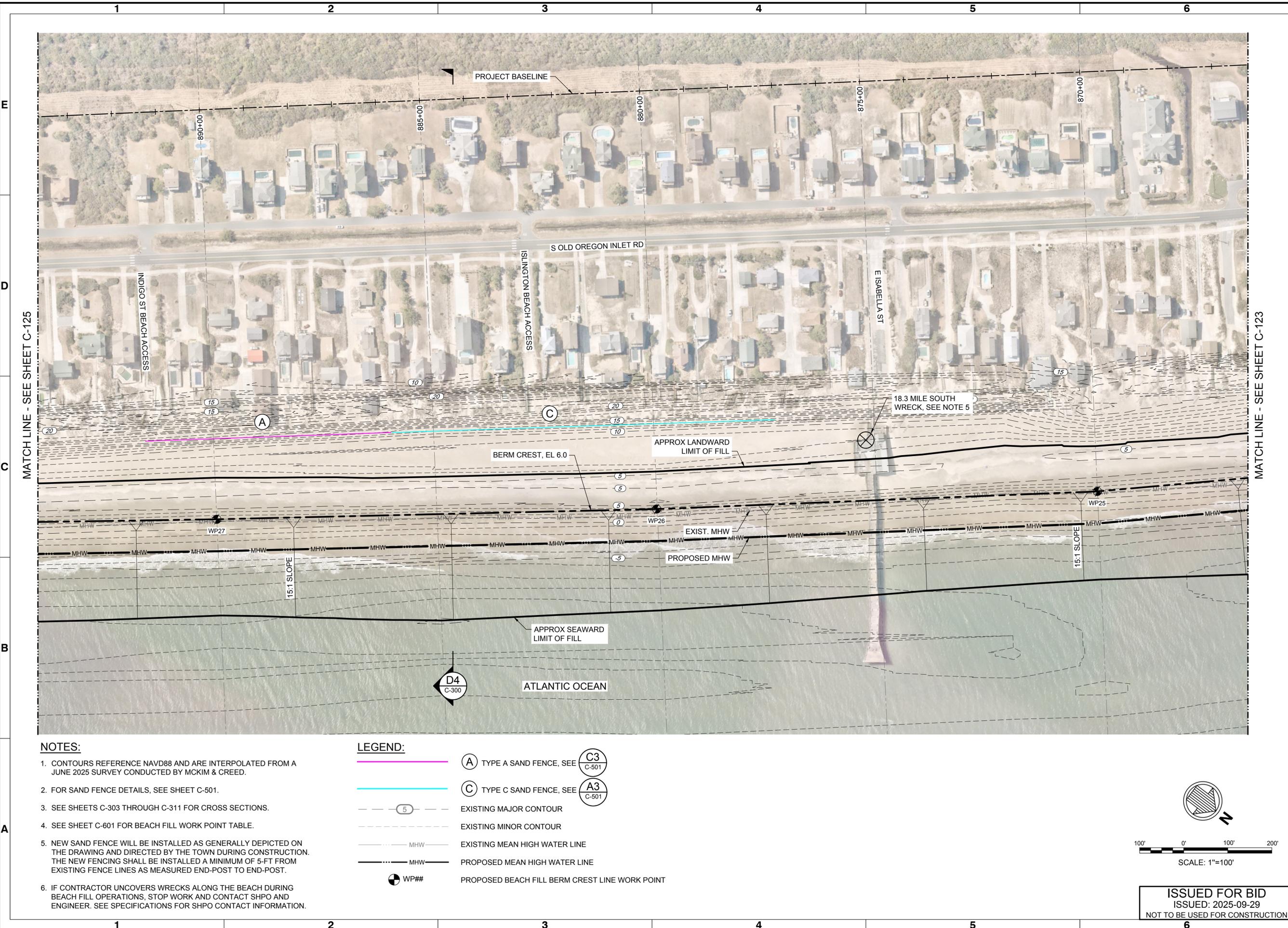
SITE PLAN
SHEET 15 OF 20

Designed by: B. GRANT	Date: 2025-09-29	Rev. 0
Drawn by: VNM	MAN Project No. 10979-16	
Reviewed by: B. JOYNER	Drawn by: BPG	
Submitted by: MOFFATT & NICHOL	Drawing code: AS SHOWN	
	Per Scale: 1" = 10' (0 SHEET)	

4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005

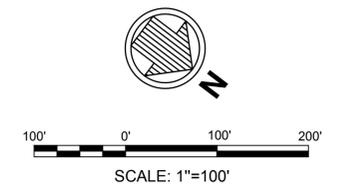


Sheet Reference No.
C-124
INDEX: 24 OF 43

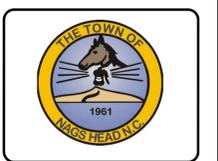


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.
 - IF CONTRACTOR UNCOVERS WRECKS ALONG THE BEACH DURING BEACH FILL OPERATIONS, STOP WORK AND CONTACT SHPO AND ENGINEER. SEE SPECIFICATIONS FOR SHPO CONTACT INFORMATION.

- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C3 C-501
 - (C) TYPE C SAND FENCE, SEE A3 C-501
 - - - (5) - - - EXISTING MAJOR CONTOUR
 - - - - - EXISTING MINOR CONTOUR
 - - - - - MHW EXISTING MEAN HIGH WATER LINE
 - — — — — MHW PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Rev.	Date	Description
0	2025-09-29	ISSUED FOR BID

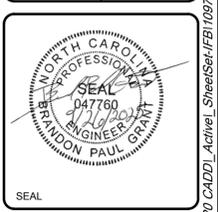
TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 16 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16	Drawn by:	BPG
Reviewed by:	B. JOYNER	Drawing code:		Submitted by:	MOFFATT & NICHOL
Per scale:	1" = 100'	Drawing Scale:	AS SHOWN	Per scale:	1" = 100' (0 SHEET)

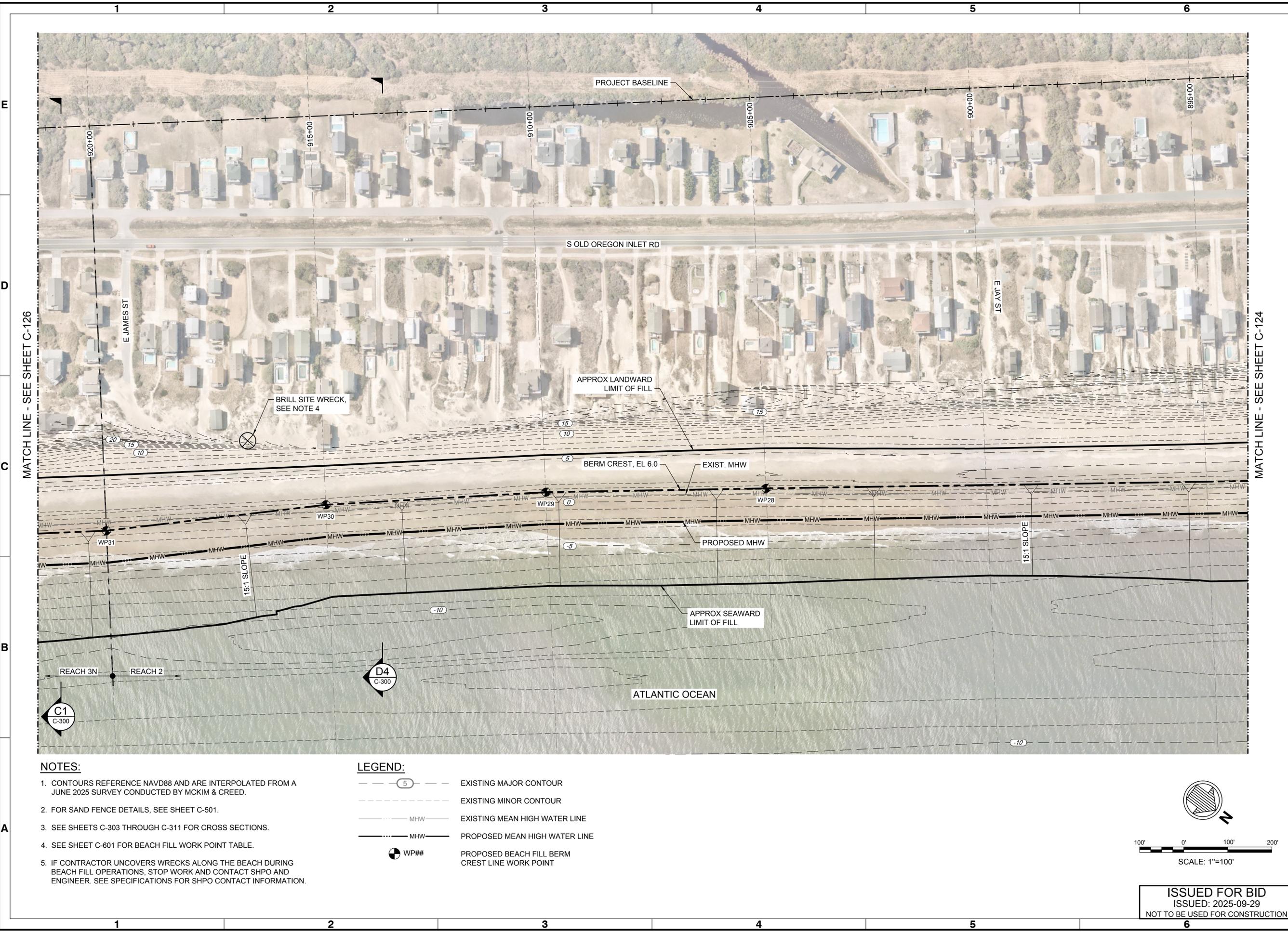
4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
NC FIRM NO. F-005

moffatt & nichol



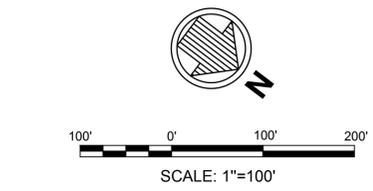
Sheet Reference No.
C-125

INDEX: 25 OF 43



- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - IF CONTRACTOR UNCOVERS WRECKS ALONG THE BEACH DURING BEACH FILL OPERATIONS, STOP WORK AND CONTACT SHPO AND ENGINEER. SEE SPECIFICATIONS FOR SHPO CONTACT INFORMATION.

- LEGEND:**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr.
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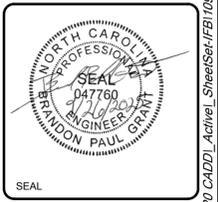
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

SITE PLAN SHEET 17 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Dwn by:	VNM	MAN Project No.:	10979-16	Dwn by:	BPG
Reviewed by:	B. JOYNER	Drawing code:		Submitted by:	MOFFATT & NICHOL
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS SHOWN	Per Scale:	1" = (0 SHEET)

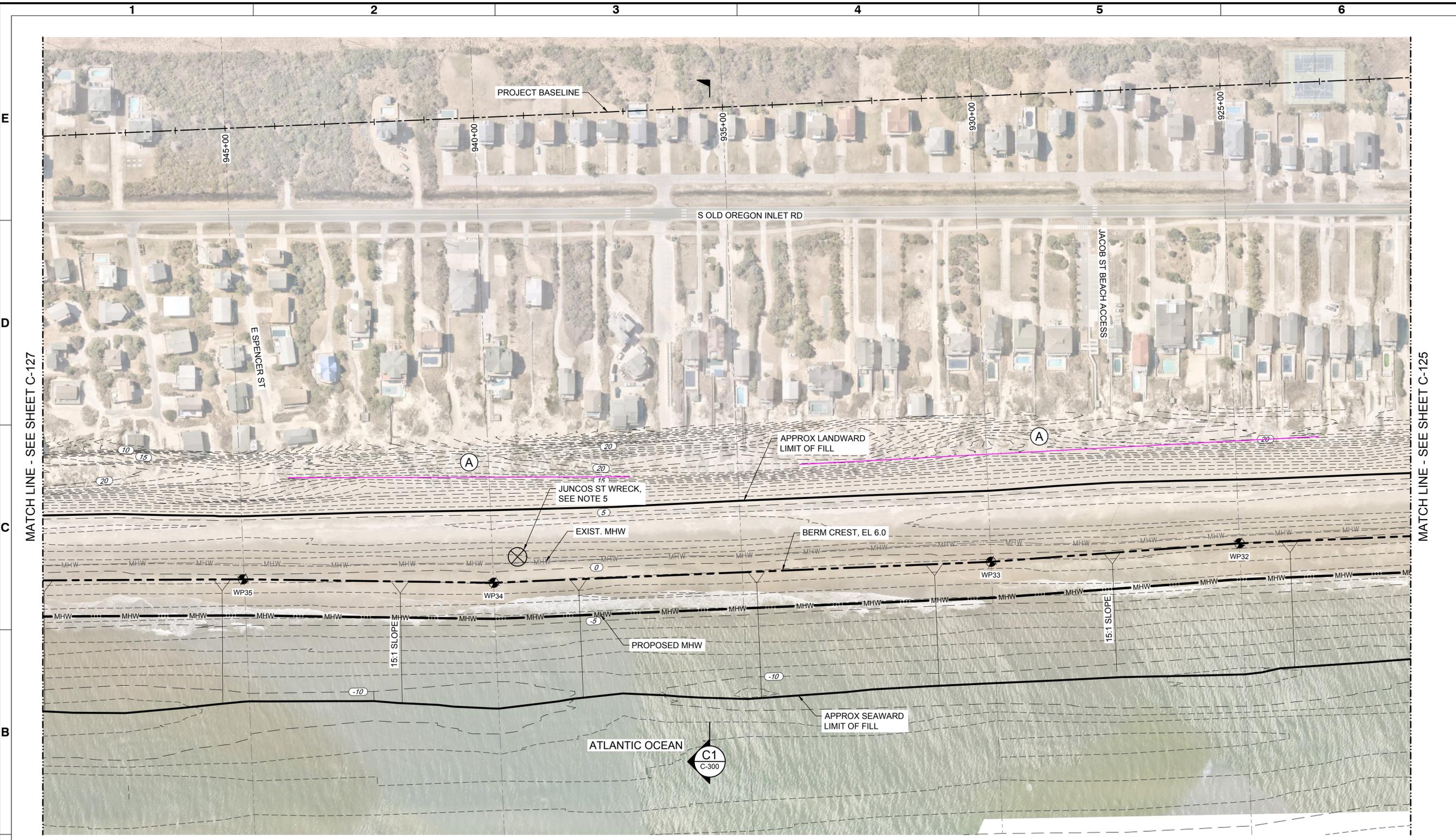
4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28580
 NC FIRM NO. F-005

moffatt & nichol



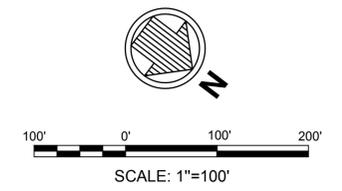
Sheet Reference No. **C-126**

INDEX: 26 OF 43

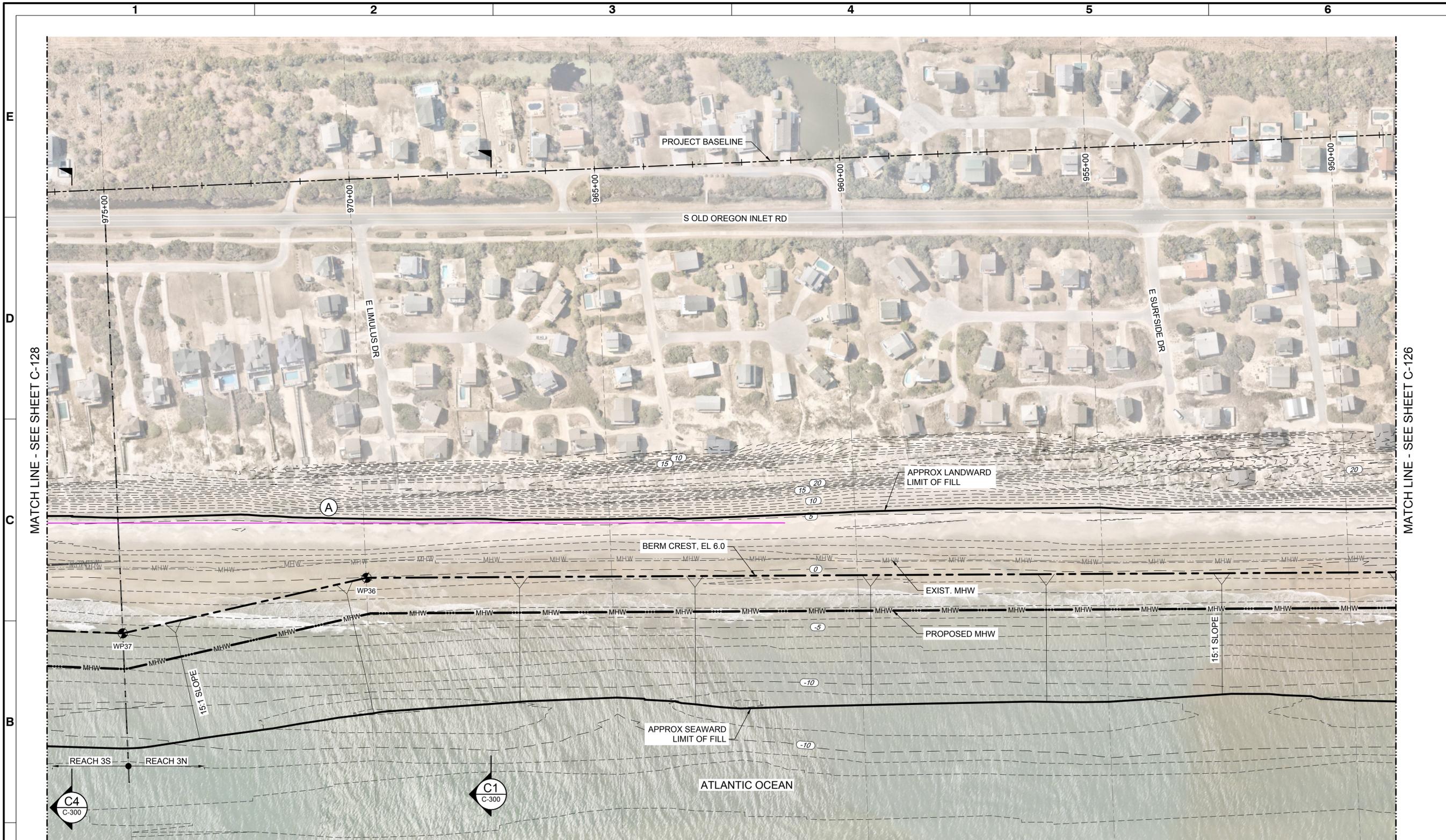


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
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 - IF CONTRACTOR UNCOVERS WRECKS ALONG THE BEACH DURING BEACH FILL OPERATIONS, STOP WORK AND CONTACT SHPO AND ENGINEER. SEE SPECIFICATIONS FOR SHPO CONTACT INFORMATION.

- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C3 C-501
 - (5) EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - MHW EXISTING MEAN HIGH WATER LINE
 - - - MHW PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT

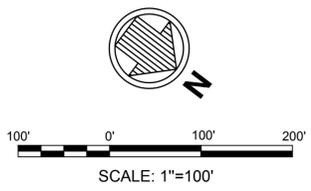


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 ISSUED: 2025-09-29
 NOT TO BE USED FOR CONSTRUCTION

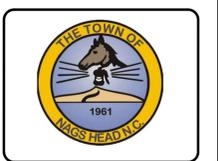


- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
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- LEGEND:**
- TYPE A SAND FENCE, SEE **C3** C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Rev.	Date	Description	By
0	2025-09-29	ISSUED FOR BID	BPG

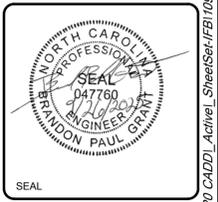
**TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026**

**SITE PLAN
SHEET 18 OF 20**

Designed by:	B. GRANT	Drawn by:	VNM	Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL
Date:	2025-09-29	MAN Project No.:	10979-16	Drawing code:		Drawing Scale:	AS SHOWN
Per Scale:	1" = (0 SHEET)						

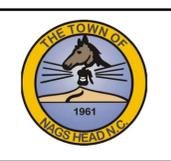
4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
NC FIRM NO. F-005

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Sheet Reference No.
C-127

INDEX: 27 OF 43



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TOWN OF NAGS HEAD BEACH
RENOVATION PROJECT 2026

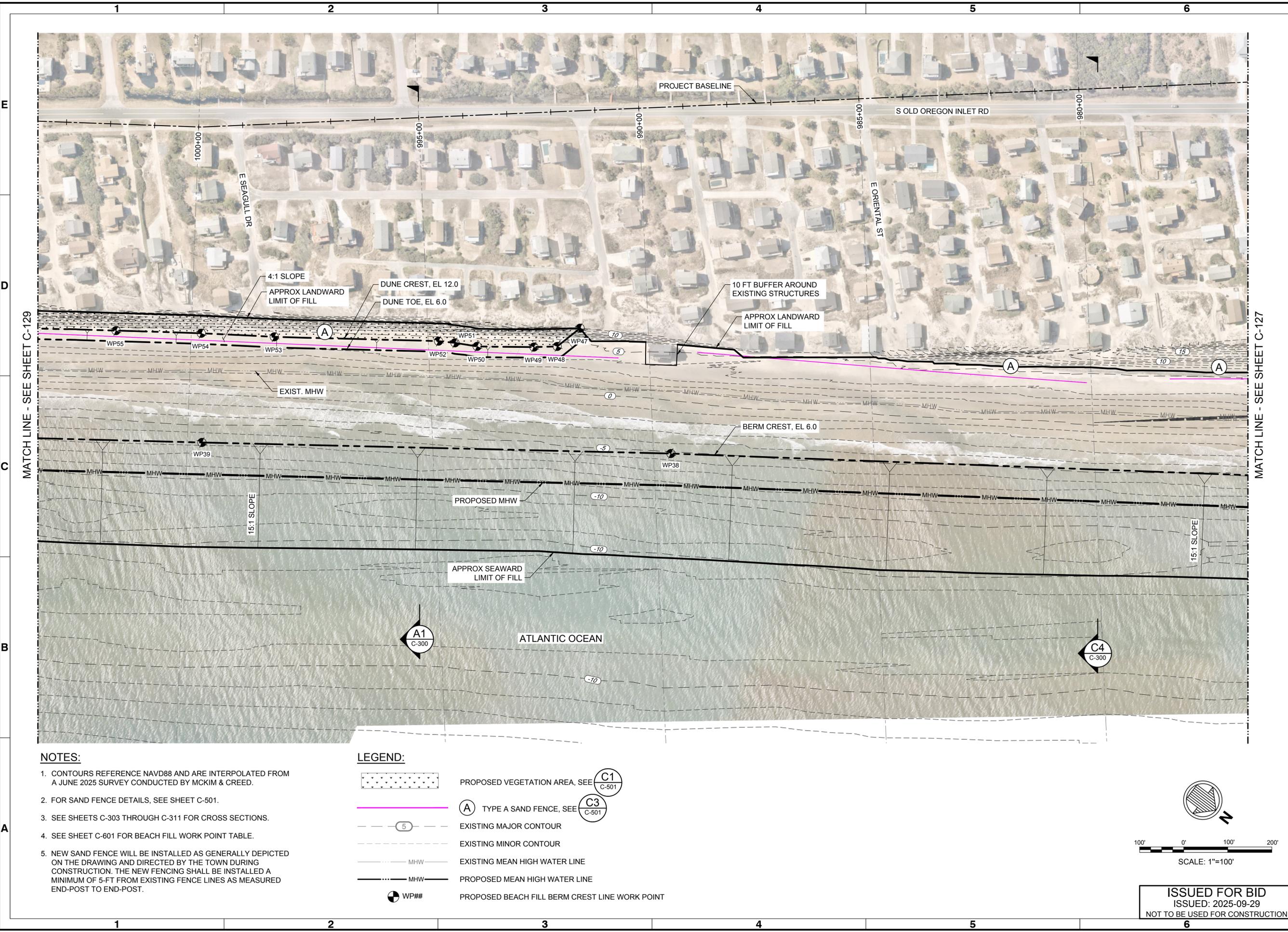
SITE PLAN
SHEET 19 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn code:			
Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS SHOWN		
		Per Scale:	1" = 100' (0 SHEET)		

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005

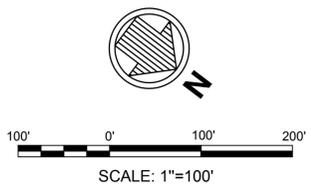


Sheet Reference No.
C-128
INDEX: 28 OF 43

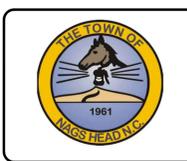


- NOTES:**
1. CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 2. FOR SAND FENCE DETAILS, SEE SHEET C-501.
 3. SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 4. SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 5. NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.

- LEGEND:**
- PROPOSED VEGETATION AREA, SEE C1 C-501
 - (A) TYPE A SAND FENCE, SEE C3 C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



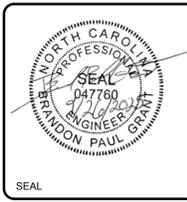
Mark	Description	Date	By
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

SITE PLAN
SHEET 20 OF 20

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Checked by:	BPG	Drawing code:			
Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL	Drawing Scale:	AS SHOWN
				Per Scale:	1" = 100' (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005

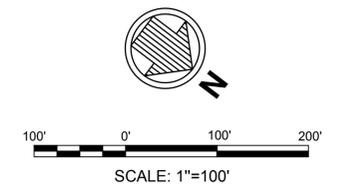


Sheet Reference No.
C-129
INDEX: 29 OF 43



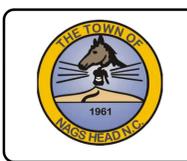
- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPOLATED FROM A JUNE 2025 SURVEY CONDUCTED BY MCKIM & CREED.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - SEE SHEETS C-303 THROUGH C-311 FOR CROSS SECTIONS.
 - SEE SHEET C-601 FOR BEACH FILL WORK POINT TABLE.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. THE NEW FENCING SHALL BE INSTALLED A MINIMUM OF 5-FT FROM EXISTING FENCE LINES AS MEASURED END-POST TO END-POST.
 - CONTRACTOR TO COORDINATE SHORE PIPELINE PLACEMENT WITHIN THE NATIONAL PARK SERVICE PROPERTY WITH NATIONAL PARK SERVICE STAFF.
 - EXISTING OUTFALLS MAINTAINED BY NC-DOT. CONTRACTOR SHALL USE EXTREME CAUTION WORKING IN THE VICINITY OF OUTFALL AND AVOID BURYING THE SEAWARD END OF THE STRUCTURE OR DAMAGING THE STRUCTURE IN ANY WAY. SEE TECHNICAL SPECIFICATIONS SECTION 02882 PARAGRAPH 3.1.8

- LEGEND:**
- PROPOSED VEGETATION AREA, SEE C1 C-501
 - TYPE A SAND FENCE, SEE C3 C-501
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING MEAN HIGH WATER LINE
 - PROPOSED MEAN HIGH WATER LINE
 - WP## PROPOSED BEACH FILL BERM CREST LINE WORK POINT



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

File: C:\RA110979-16\20 CAD\1_SheetSet\FBI\1097916-C-129 ; Plotted: 9/26/2025 1:02 PM by MORGAN, NEKOL ; Saved: 9/26/2025 1:01 PM by MMORGAN



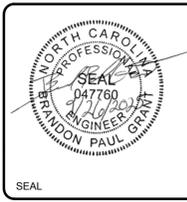
Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

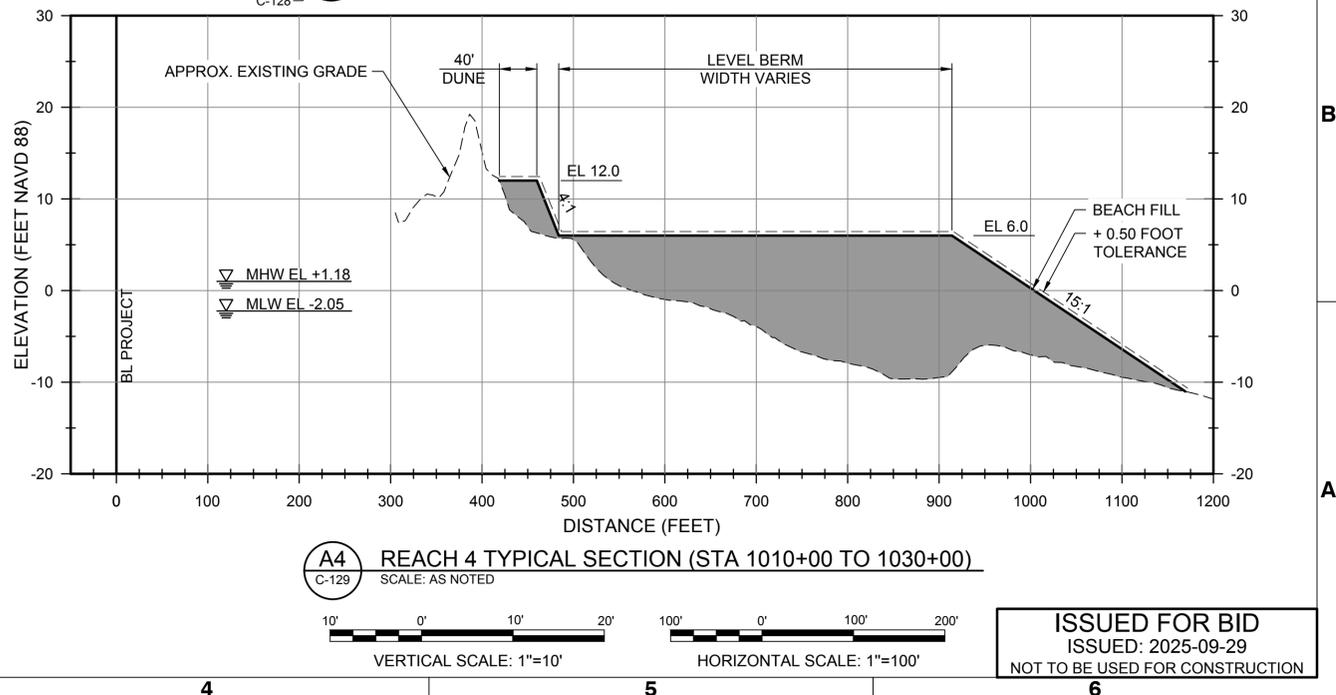
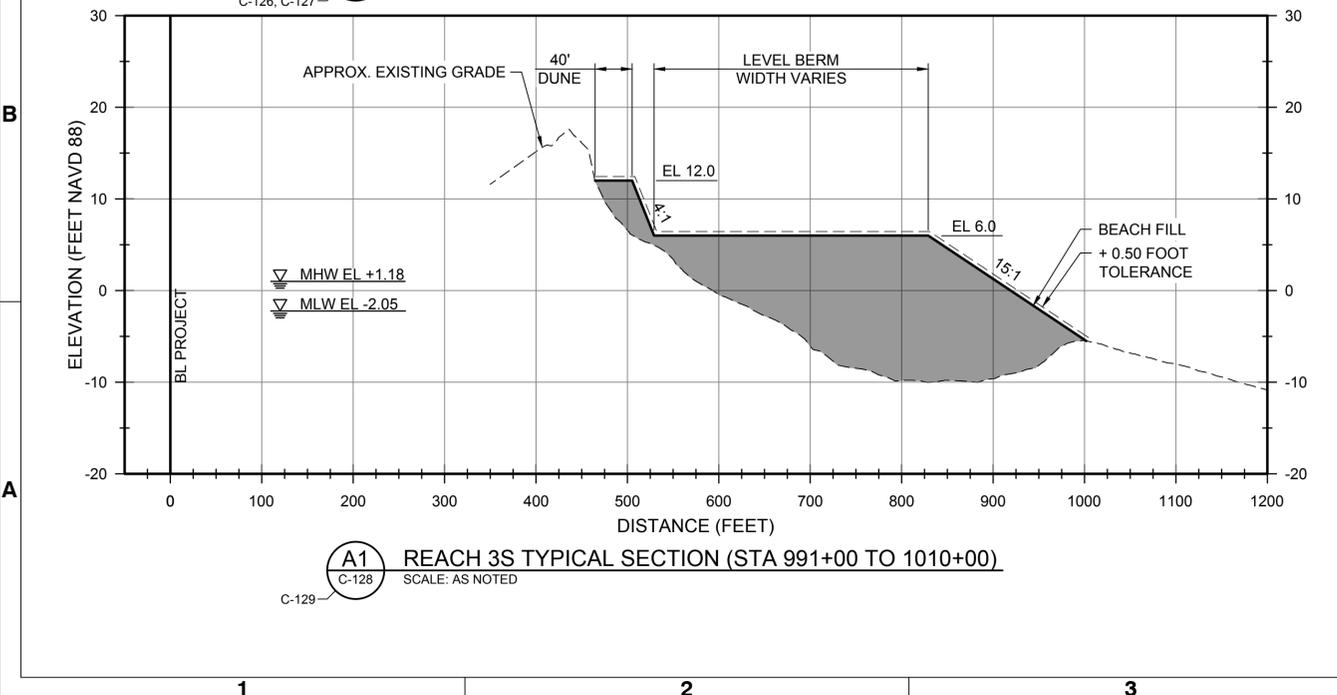
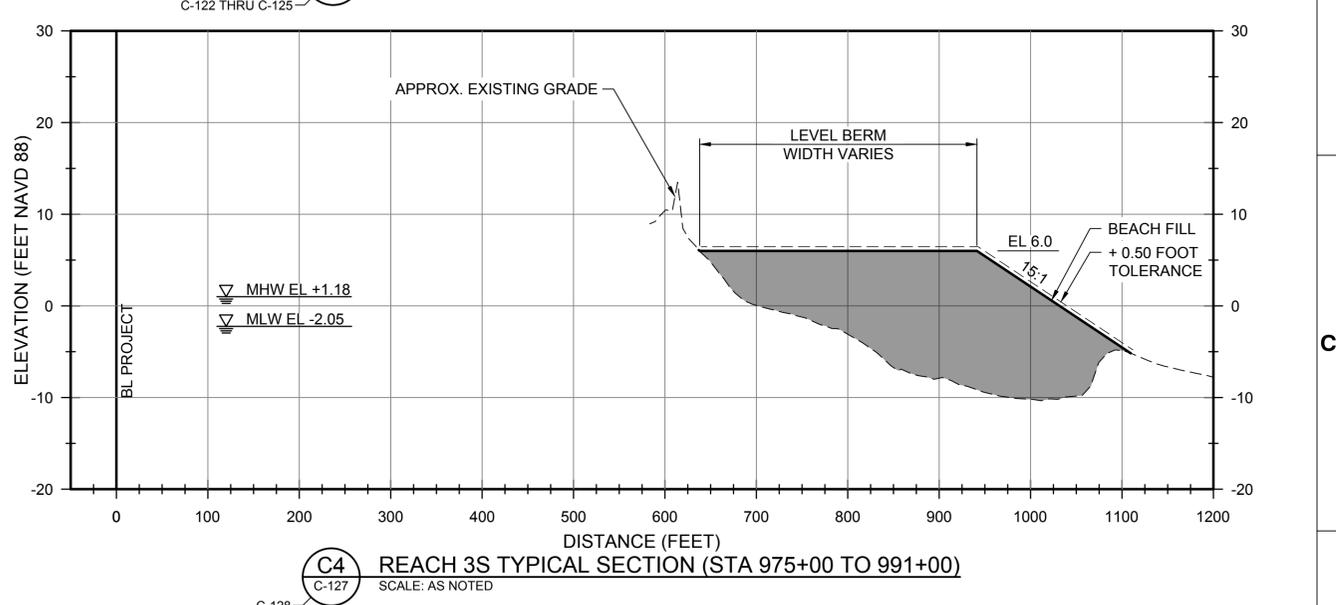
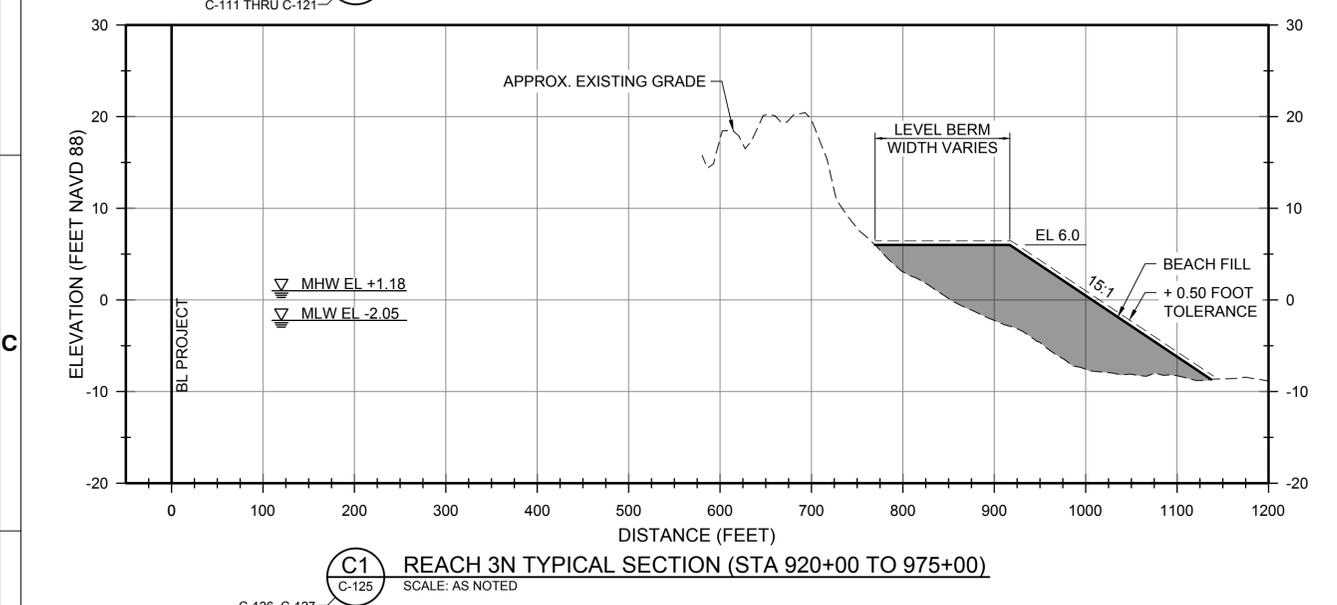
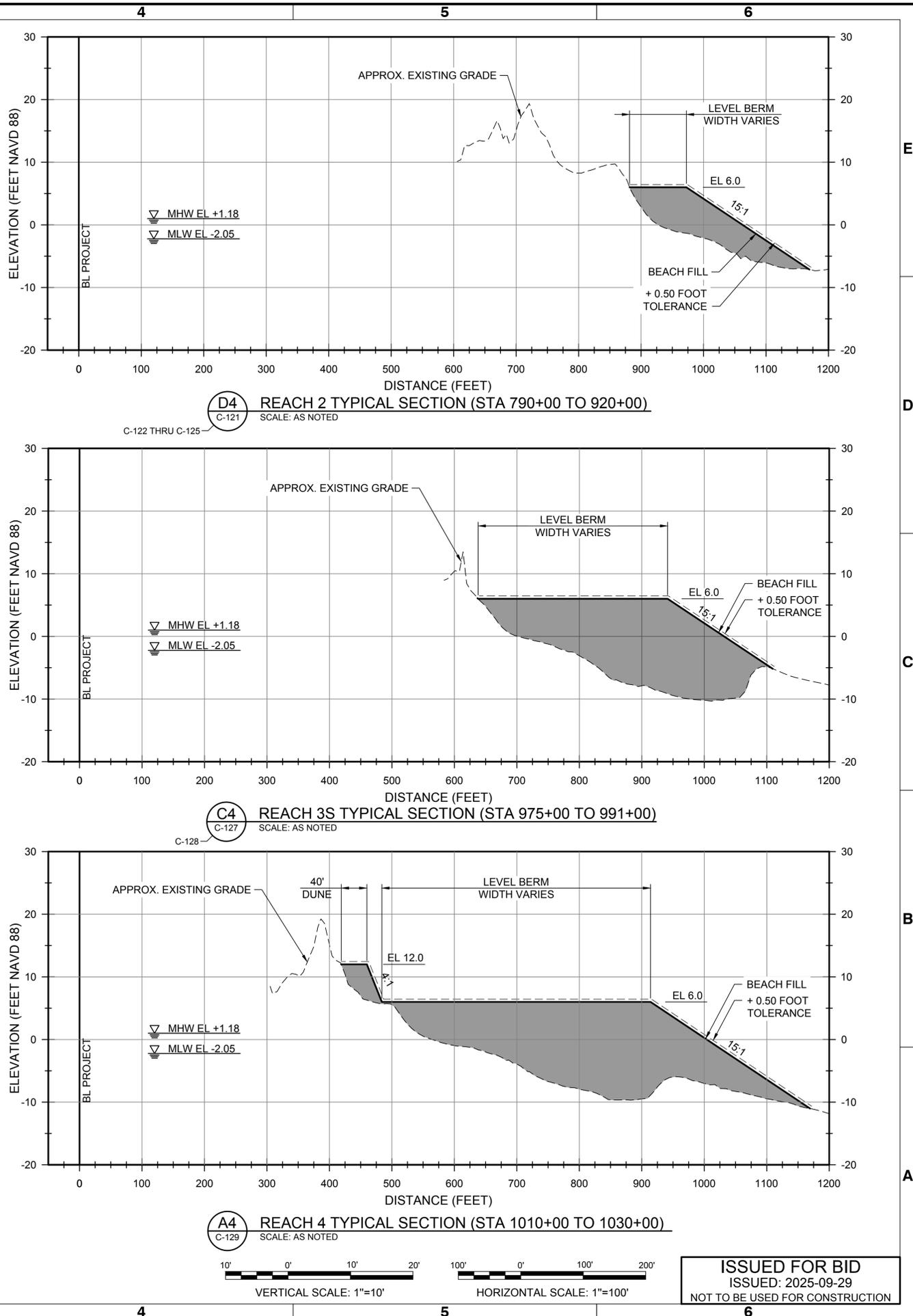
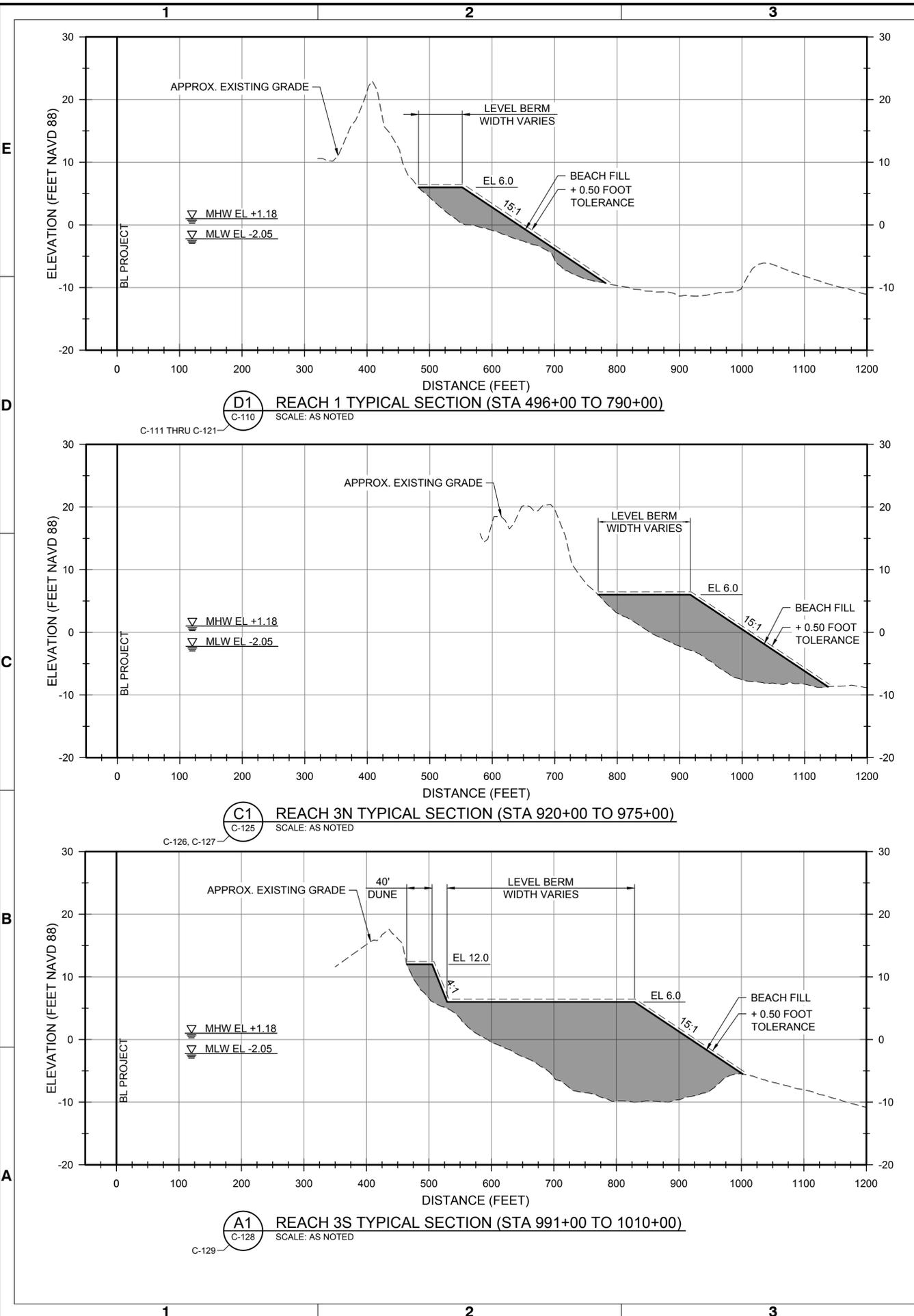
TYPICAL SECTIONS

Designed by:	B. GRANT	Drawn by:	VNM	Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL
Date:	2025-09-29	MAN Project No.:	10979-16	Drawing code:		Drawing Scale:	AS SHOWN
Per scale:	1" = 10' (0 SHEET)						

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 27859
 NC FIRM NO. F-0105



Sheet Reference No. **C-300**
 INDEX: 30 OF 43



ISSUED FOR BID
 ISSUED: 2025-09-29
 NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

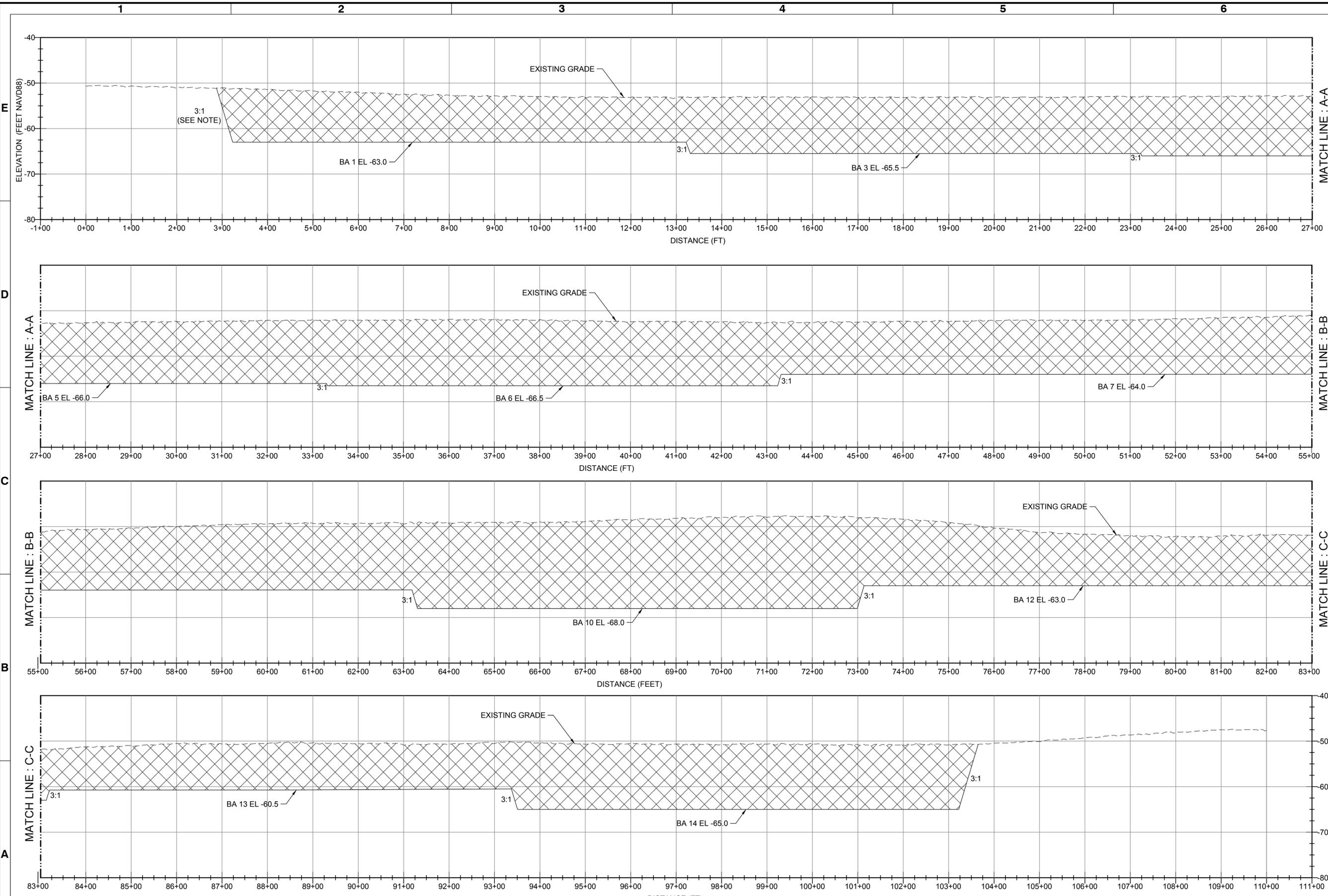
BORROW AREA SECTIONS
SHEET 1 OF 2

Designed by: B. GRANT	Drawn by: VNM	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL
Date: 2025-09-29	MAN Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN
Per scale: 1"=100'	Per scale: 1"=10 SHEET		

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27668
NC FIRM NO. F-005



Sheet Reference No. C-301
INDEX: 31 OF 43

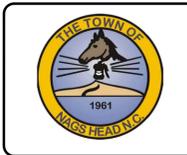


NOTE:
SIDE SLOPES SHOWN ARE INDICATIVE OF EXPECTED SAND REPOSE SLOPES IMMEDIATELY FOLLOWING DREDGING. SEE SPECIFICATIONS SECTION 02881 DREDGING PARAGRAPH 3.4.2 SIDE SLOPE FOR MORE DETAIL.

A1
SECTION
C-102
SCALE: AS NOTED



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



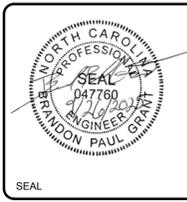
Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

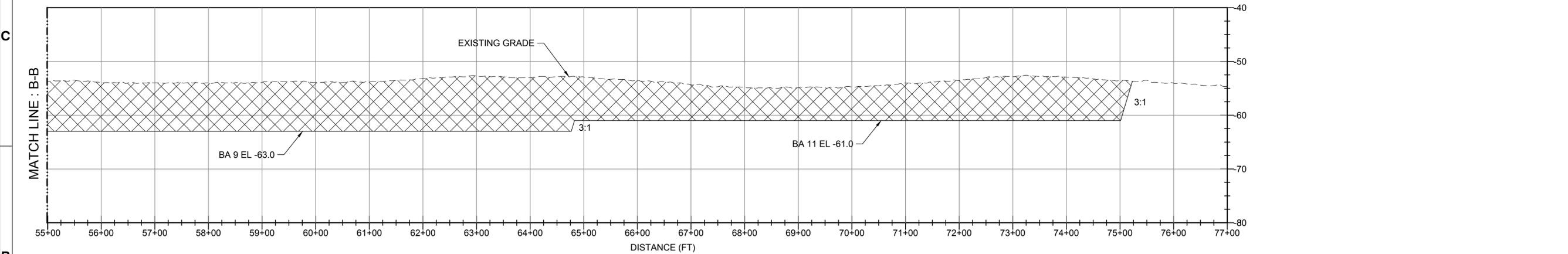
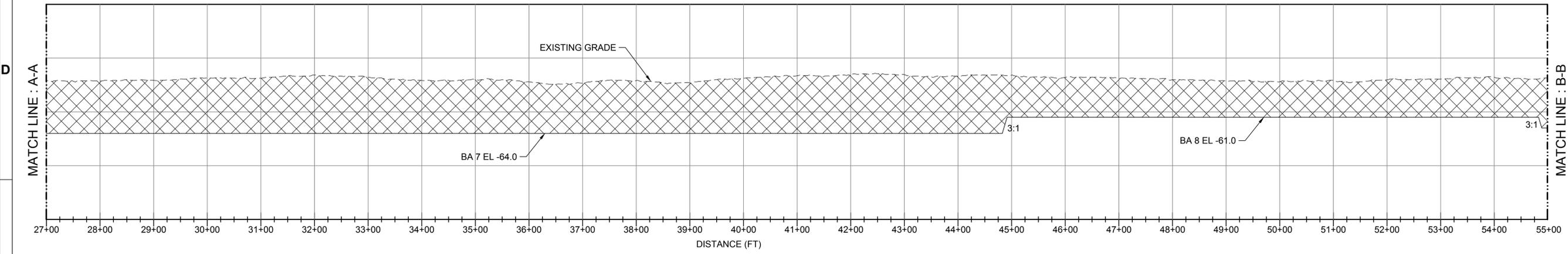
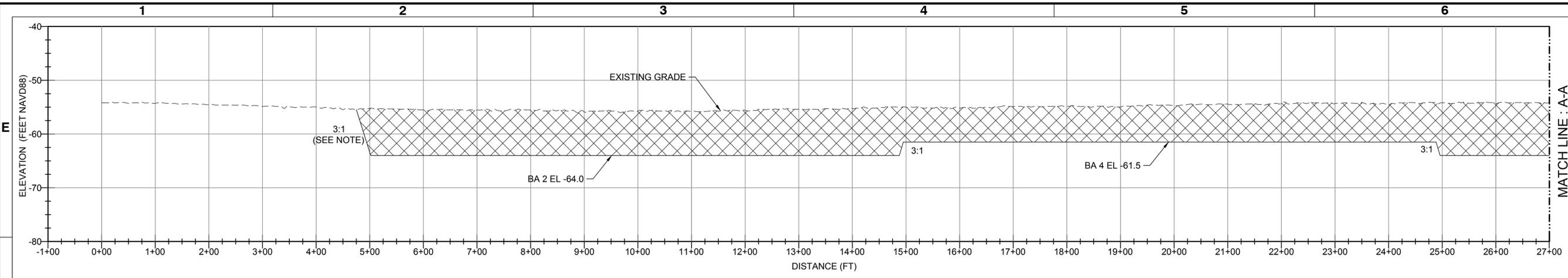
BORROW AREA SECTIONS
SHEET 2 OF 2

Designed by: B. GRANT	Date: 2025-09-29	Rev: 0
Drawn by: VNM	MAN Project No: 10979-16	
Reviewed by: B. JOYNER	Drawn by: BPG	
Submitted by: MOFFATT & NICHOL	Drawing code:	AS SHOWN
		Per scale: 1"=10' (0 SHEET)

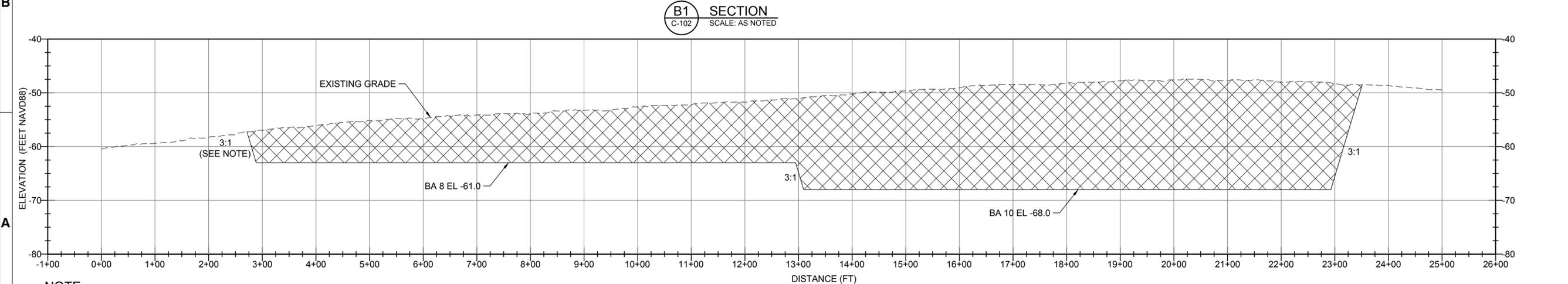
4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27669
NC FIRM NO. F-005



Sheet Reference No. C-302
INDEX: 32 OF 43



B1 SECTION
C-102 SCALE: AS NOTED

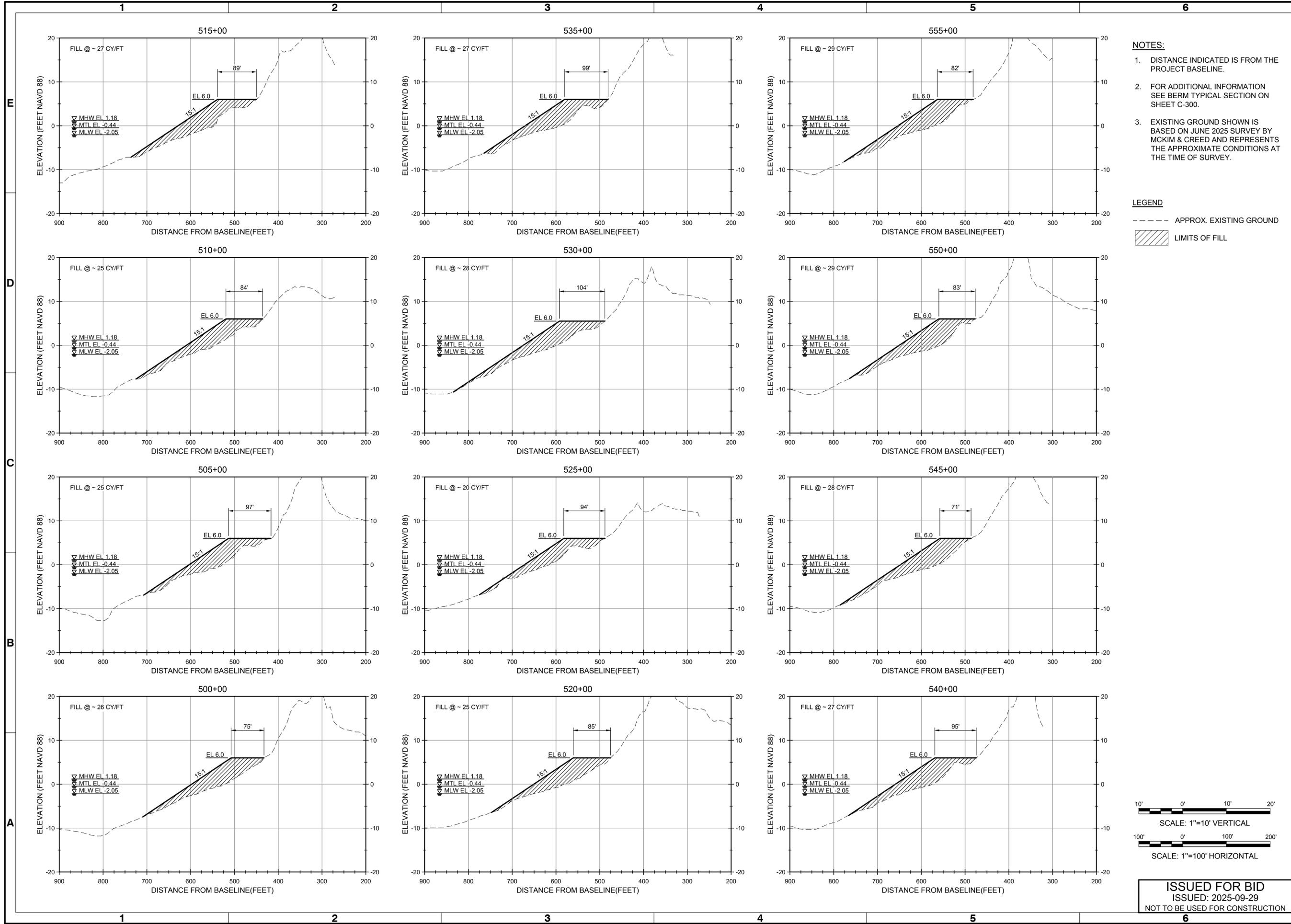


A1 SECTION
C-102 SCALE: AS NOTED

NOTE:
SIDE SLOPES SHOWN ARE INDICATIVE OF EXPECTED SAND REPOSE SLOPES IMMEDIATELY FOLLOWING DREDGING. SEE SPECIFICATIONS SECTION 02881 DREDGING PARAGRAPH 3.4.2 SIDE SLOPE FOR MORE DETAIL.



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

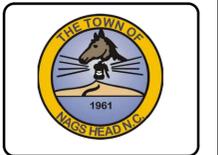


- NOTES:**
- DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 - FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



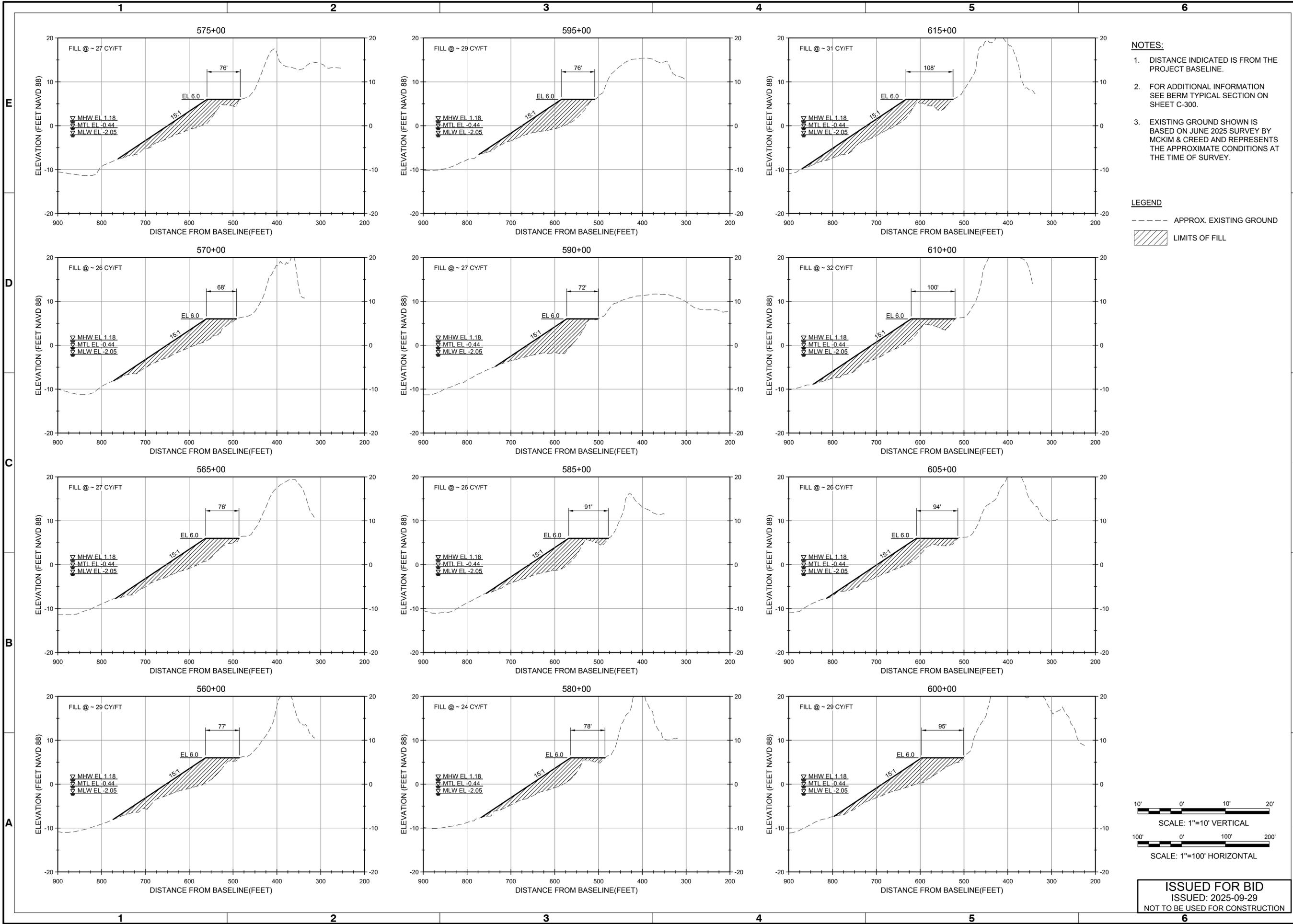
Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

CROSS SECTIONS SHEET 1 OF 9

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	MAN Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawn by:		Drawing Scale:	AS SHOWN
				Post scale:	1" = 10' (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
 ROLLS 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 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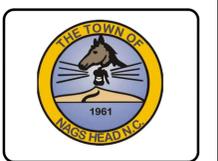


- NOTES:**
1. DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 2. FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 3. EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



Rev.	Date	Description	By	Appr.
0	2025-09-29	ISSUED FOR BID	BPG	

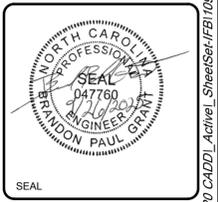
TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

**CROSS SECTIONS
SHEET 2 OF 9**

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Date: 2025-09-29	Rev. 0
Submitted by: MCFATT & NICHOL	Reviewed by: B. JOYNER	Drawing code: 10979-16	M&N Project No. 10979-16	AS SHOWN 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
NC FIRM NO. F-0105

mofatt & nichol



10' 0' 10' 20'

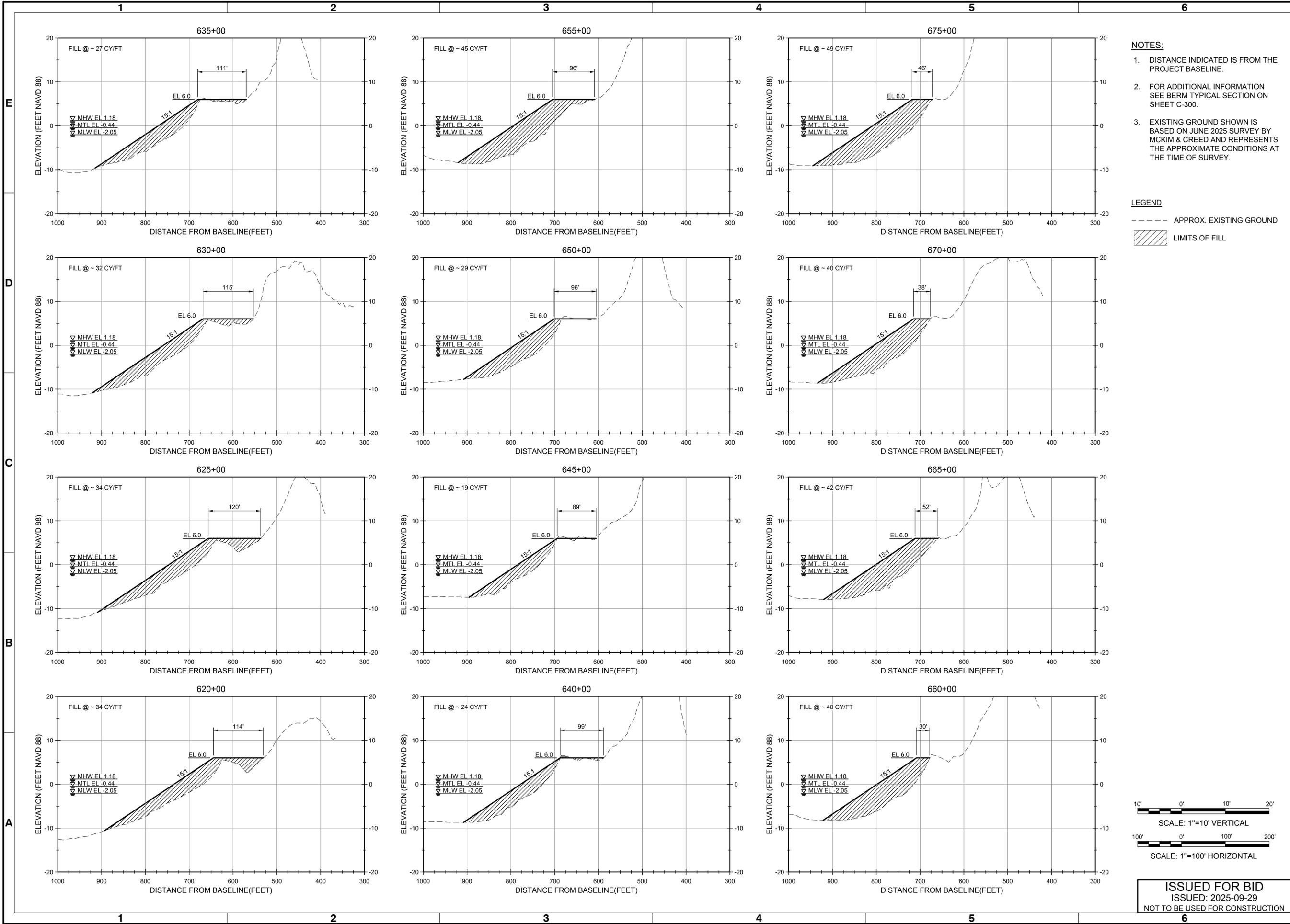
SCALE: 1"=10' VERTICAL

100' 0' 100' 200'

SCALE: 1"=100' HORIZONTAL

ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

Sheet Reference No.
C-304
INDEX: 34 OF 43

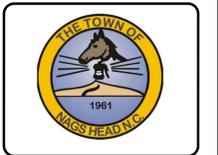


- NOTES:**
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 2. FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 3. EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-09-29	BPG

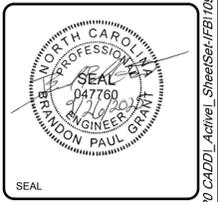
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

CROSS SECTIONS SHEET 3 OF 9

Designed by:	B. GRANT	Drawn by:	VNM	Reviewed by:	B. JOYNER	Submitted by:	MOFFATT & NICHOL
Date:	2025-09-29	MAN Project No.:	10979-16	Drawing code:		Drawing Scale:	AS SHOWN
Per scale:	1" = 10' (0 SHEET)						

4700 FALLS OF NEUSE RD, SUITE 300
 ROLAND, NC 28589
 NC FIRM NO. F-0105

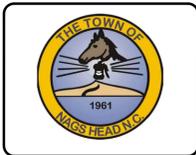
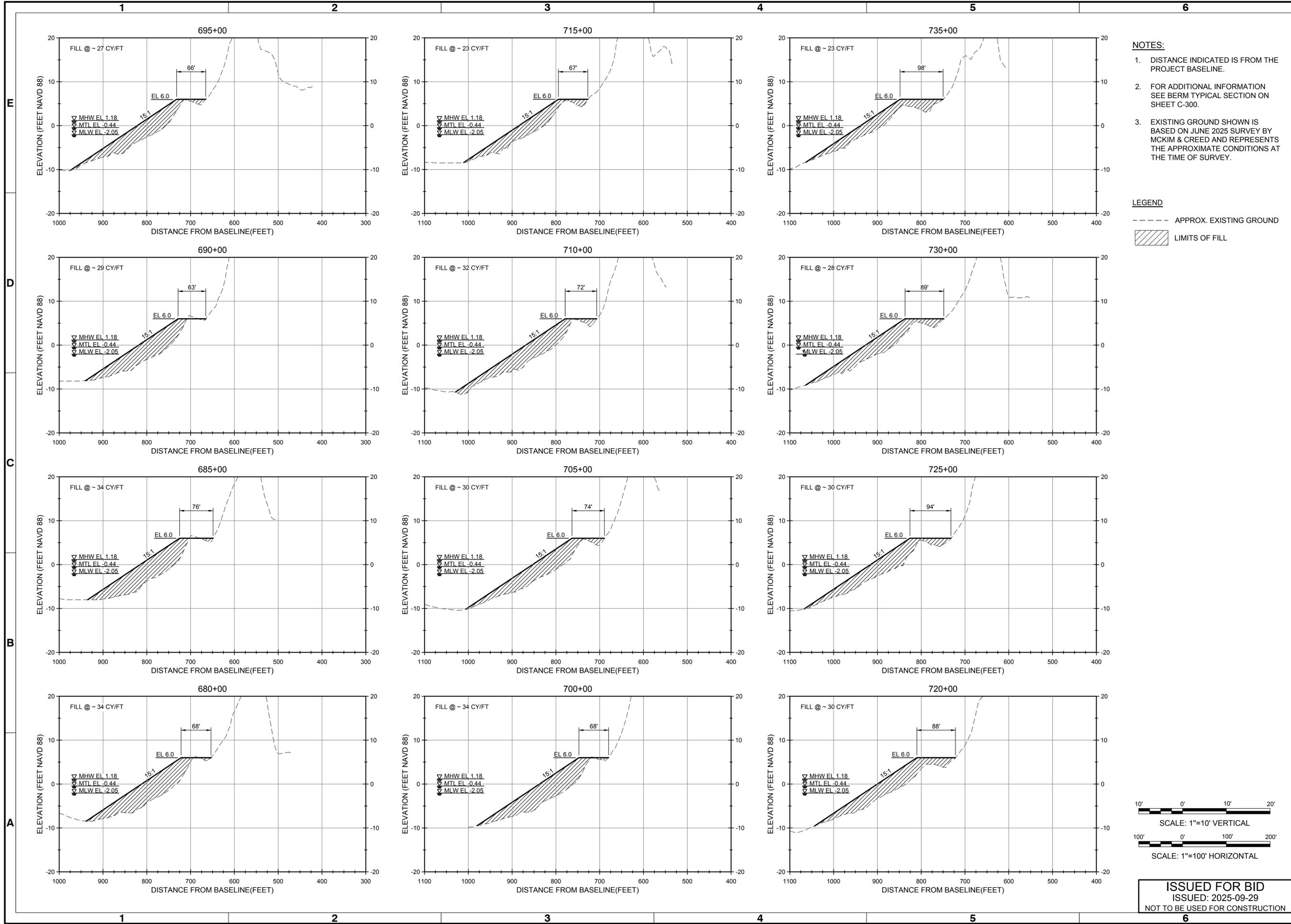
moffatt & nichol



Sheet Reference No. **C-305**

INDEX: 35 OF 43

ISSUED FOR BID
 ISSUED: 2025-09-29
 NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	By
0	ISSUED FOR BID	2025-09-29	BPG

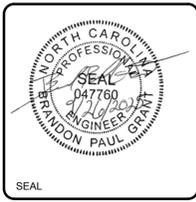
TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

CROSS SECTIONS
SHEET 4 OF 9

Designed by:	B. GRANT	Date:	2025-09-29	Rev:	0
Drawn by:	VNM	M&N Project No.:	10979-16		
Reviewed by:	B. JOYNER	Drawn by:	BPG	Drawing code:	
Submitted by:	MOFFATT & NICHOL	Drawn by:		Drawing Scale:	AS SHOWN
				Per scale:	1" = 10' (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
NC FIRM NO. F-005

moffatt & nichol



Sheet Reference No.
C-306

INDEX: 36 OF 43

- NOTES:**
- DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 - FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL

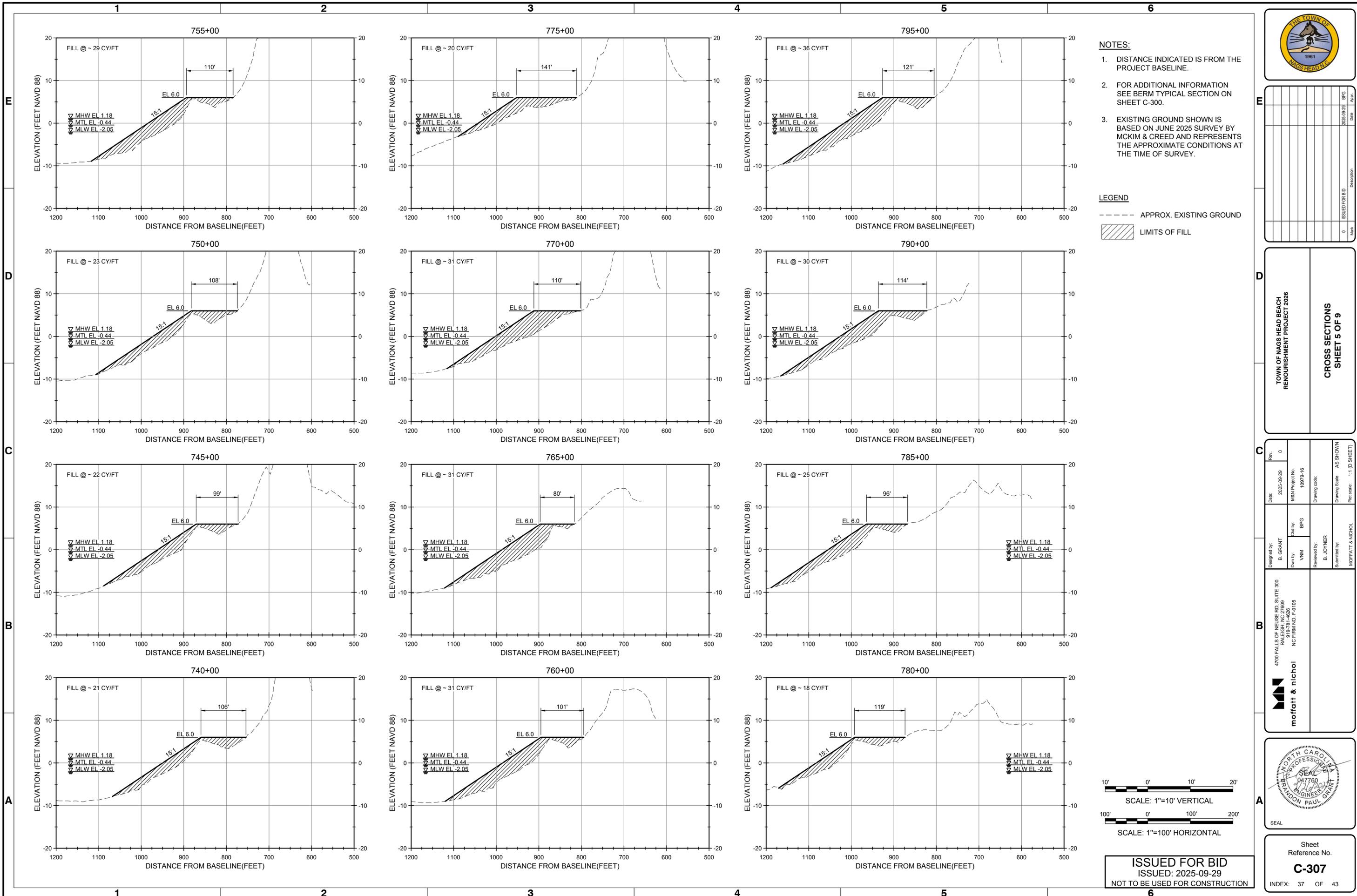
10' 0' 10' 20'

SCALE: 1"=10' VERTICAL

100' 0' 100' 200'

SCALE: 1"=100' HORIZONTAL

ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	By
0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

CROSS SECTIONS
SHEET 5 OF 9

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Date: 2025-09-29	Rev: 0
Submitted by: MOFFATT & NICHOL	Reviewed by: B. JOYNER	Drawing code: 10979-16	M&N Project No. 10979-16	AS SHOWN Per scale: 1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
NC FIRM NO. F-005

moffatt & nichol



Sheet Reference No.
C-307

INDEX: 37 OF 43

- NOTES:**
- DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 - FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL

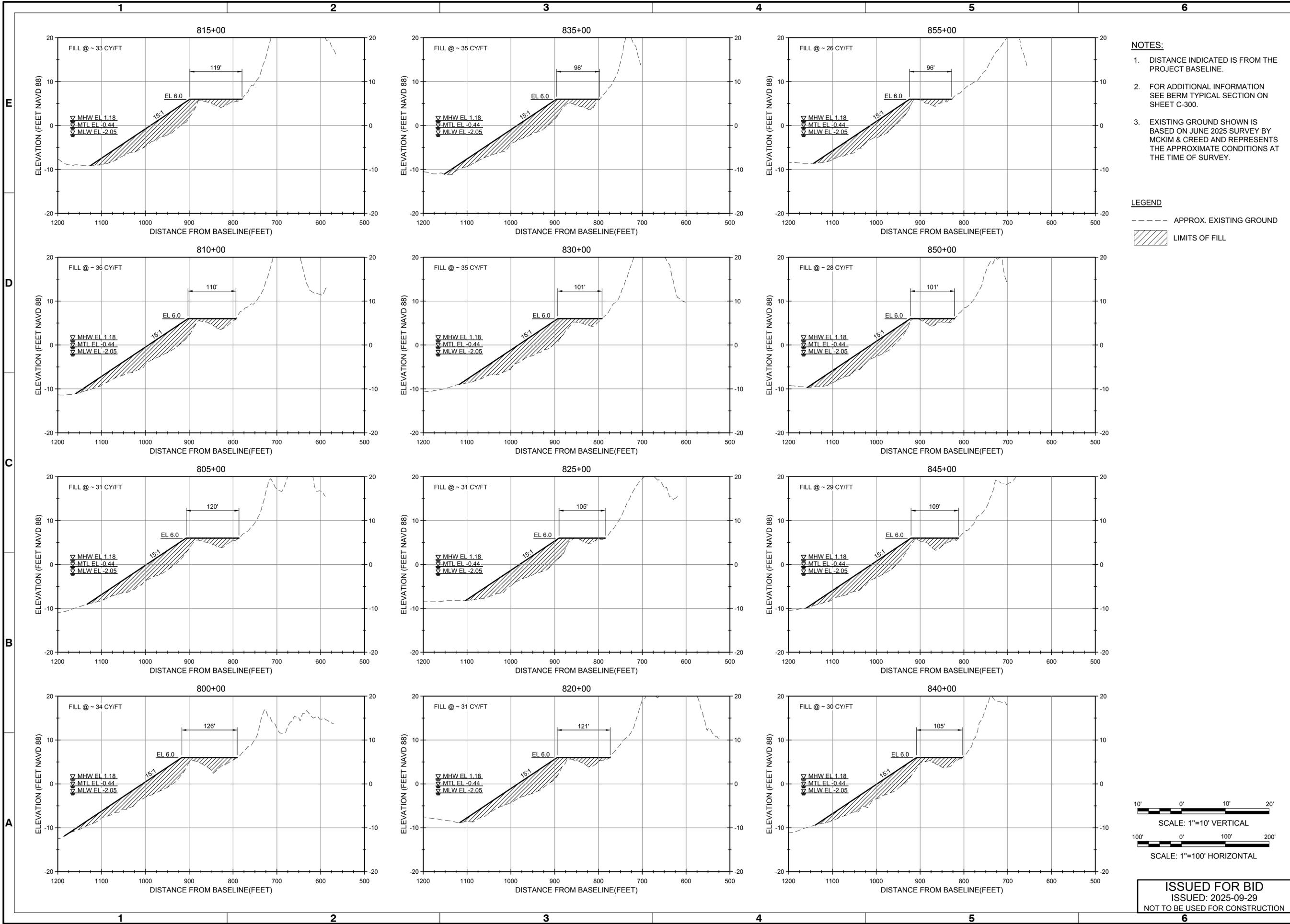
10' 0' 10' 20'

SCALE: 1"=10' VERTICAL

100' 0' 100' 200'

SCALE: 1"=100' HORIZONTAL

ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



- NOTES:**
1. DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 2. FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
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LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



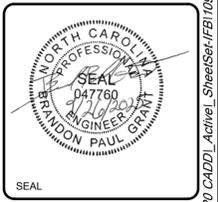
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0	2025-09-29	ISSUED FOR BID	BPG	

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

CROSS SECTIONS
SHEET 6 OF 9

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Date: 2025-09-29	MAN Project No. 10979-16	Rev. 0
Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL	Permit No. NC FIRM NO. F-005	Drawing code: AS SHOWN	Permit Scale: 1" = 10' (0 SHEET)	

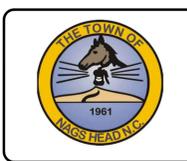
4700 FALLS OF NEUSE RD, SUITE 300
Raleigh, NC 27609
MOFFATT & NICHOL
NC FIRM NO. F-005



Sheet Reference No.
C-308

INDEX: 38 OF 43

ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



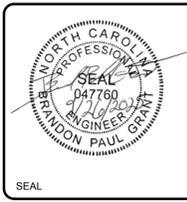
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0	ISSUED FOR BID	2025-09-29	BPG

TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

CROSS SECTIONS
SHEET 7 OF 9

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Date: 2025-09-29	Rev: 0
Submitted by: MCFATT & NICHOL		Reviewed by: B. JOYNER	Drawing code: 10979-16	M&N Project No. 10979-16
4700 FALLS OF NEUSE RD, SUITE 300 ROSELAND, NC 27068 NC FIRM NO. F-005		Drawing Scale: AS SHOWN Plot scale: 1" = 10' (0 SHEET)		

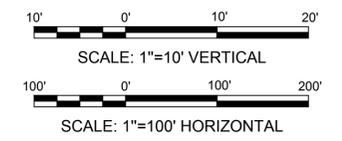
mofatt & nichol



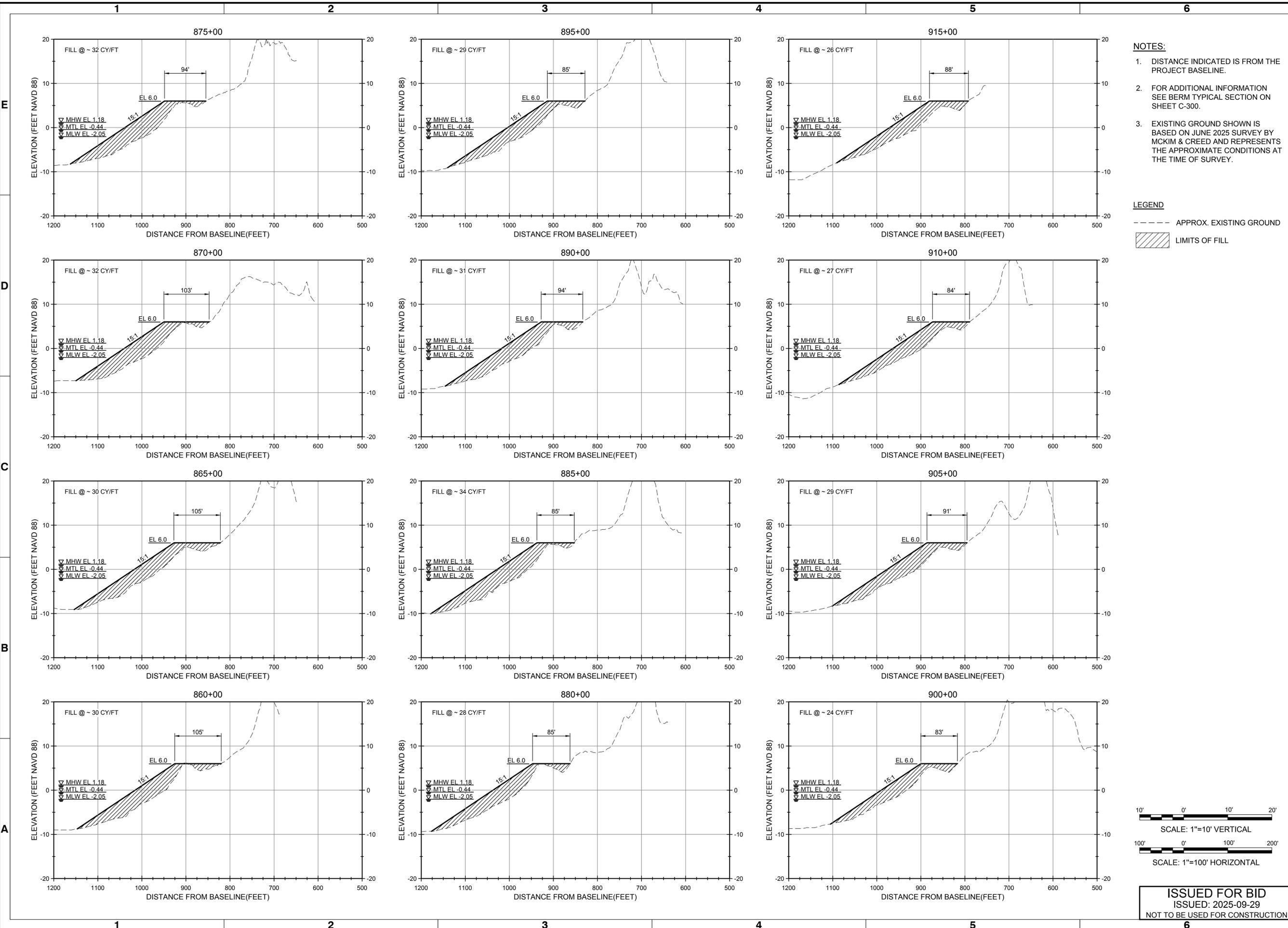
Sheet Reference No.
C-309
INDEX: 39 OF 43

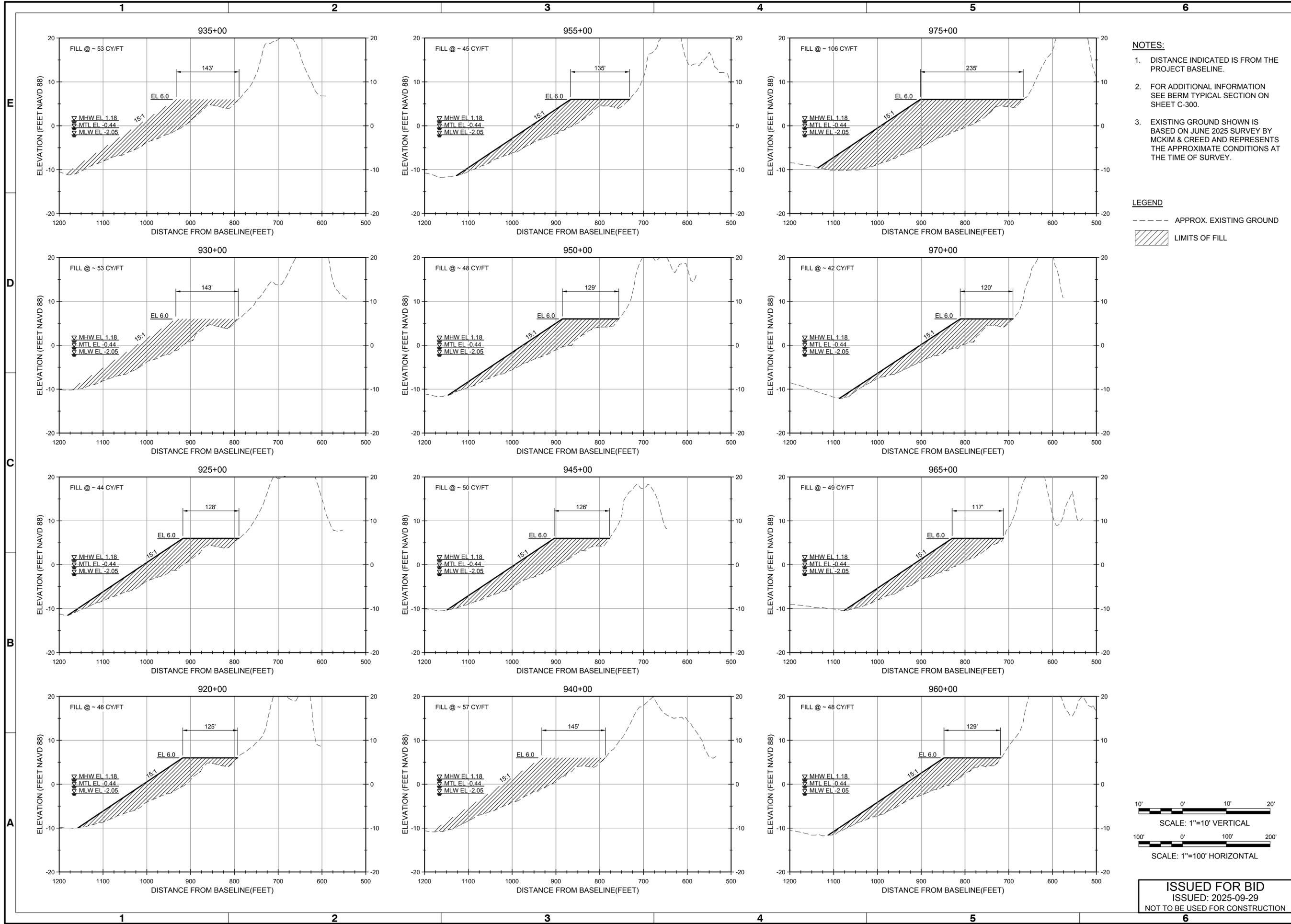
- NOTES:**
- DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
 - FOR ADDITIONAL INFORMATION SEE BERM TYPICAL SECTION ON SHEET C-300.
 - EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

- LEGEND**
- APPROX. EXISTING GROUND
 - ▨ LIMITS OF FILL



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION



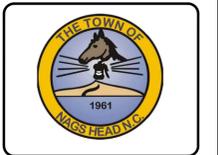


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 3. EXISTING GROUND SHOWN IS BASED ON JUNE 2025 SURVEY BY MCKIM & CREED AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF SURVEY.

LEGEND

--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



Rev.	Date	Description
0	2025-09-29	ISSUED FOR BID

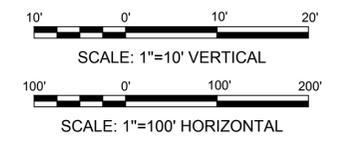
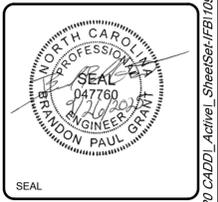
TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026

CROSS SECTIONS SHEET 8 OF 9

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Date: 2025-09-29	MAN Project No. 10979-16	Rev. 0
Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL	Per Scale: 1" = 10' (0 SHEET)	Drawing code:	AS SHOWN	

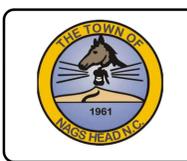
4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
NC FIRM NO. F-0105

moffatt & nichol



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION

Sheet Reference No.
C-310
INDEX: 40 OF 43



Rev.	Date	Description
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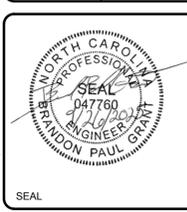
TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2026

CROSS SECTIONS
SHEET 9 OF 9

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL	AS SHOWN 1:1 (0 SHEET)
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4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27581-4626
NC FIRM NO. F-0105

moffatt & nichol



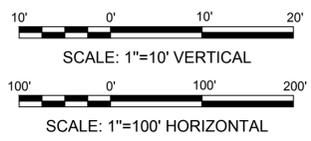
Sheet Reference No.
C-311
INDEX: 41 OF 43

- NOTES:**
- DISTANCE INDICATED IS FROM THE PROJECT BASELINE.
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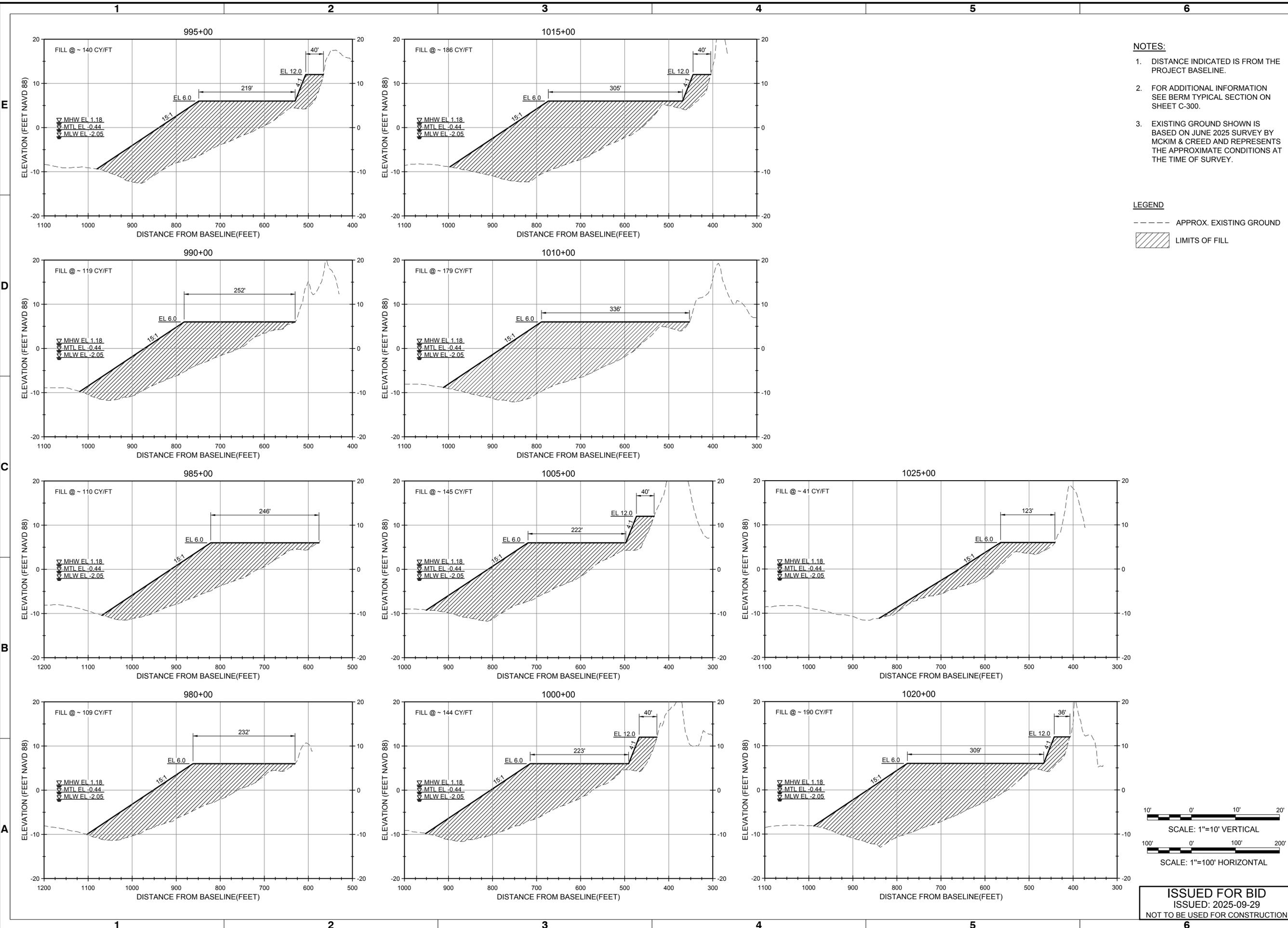
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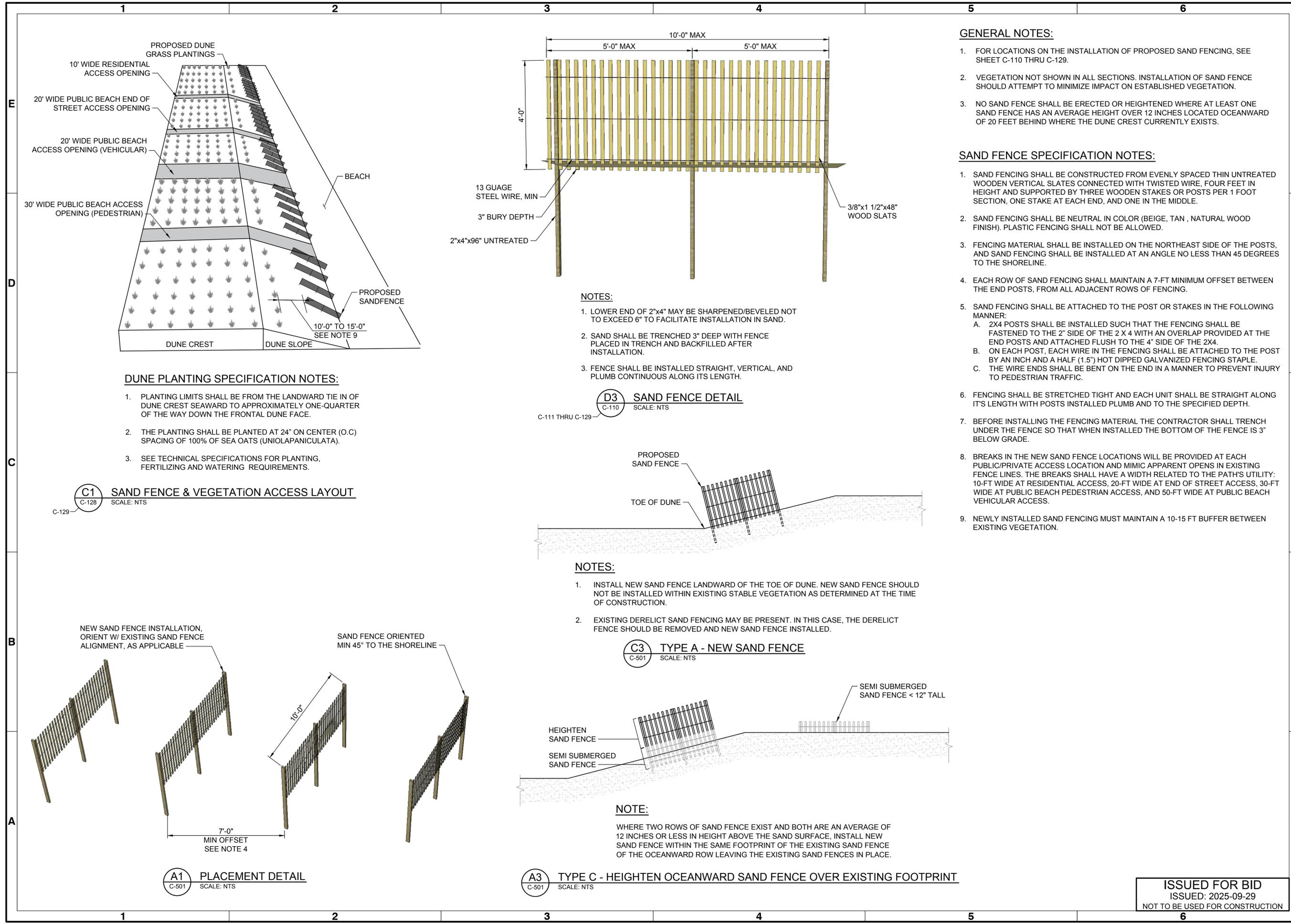
--- APPROX. EXISTING GROUND

▨ LIMITS OF FILL



ISSUED FOR BID
ISSUED: 2025-09-29
NOT TO BE USED FOR CONSTRUCTION





DUNE PLANTING SPECIFICATION NOTES:

1. PLANTING LIMITS SHALL BE FROM THE LANDWARD TIE IN OF DUNE CREST SEAWARD TO APPROXIMATELY ONE-QUARTER OF THE WAY DOWN THE FRONTAL DUNE FACE.
2. THE PLANTING SHALL BE PLANTED AT 24" ON CENTER (O.C) SPACING OF 100% OF SEA OATS (UNIOLAPANICULATA).
3. SEE TECHNICAL SPECIFICATIONS FOR PLANTING, FERTILIZING AND WATERING REQUIREMENTS.

C1 SAND FENCE & VEGETATION ACCESS LAYOUT
SCALE: NTS

NOTES:

1. LOWER END OF 2"x4" MAY BE SHARPENED/BEVELED NOT TO EXCEED 6" TO FACILITATE INSTALLATION IN SAND.
2. SAND SHALL BE TRENCHED 3" DEEP WITH FENCE PLACED IN TRENCH AND BACKFILLED AFTER INSTALLATION.
3. FENCE SHALL BE INSTALLED STRAIGHT, VERTICAL, AND PLUMB CONTINUOUS ALONG ITS LENGTH.

D3 SAND FENCE DETAIL
SCALE: NTS

C-111 THRU C-129

NOTES:

1. INSTALL NEW SAND FENCE LANDWARD OF THE TOE OF DUNE. NEW SAND FENCE SHOULD NOT BE INSTALLED WITHIN EXISTING STABLE VEGETATION AS DETERMINED AT THE TIME OF CONSTRUCTION.
2. EXISTING DERELICT SAND FENCING MAY BE PRESENT. IN THIS CASE, THE DERELICT FENCE SHOULD BE REMOVED AND NEW SAND FENCE INSTALLED.

C3 TYPE A - NEW SAND FENCE
SCALE: NTS

NOTE:

WHERE TWO ROWS OF SAND FENCE EXIST AND BOTH ARE AN AVERAGE OF 12 INCHES OR LESS IN HEIGHT ABOVE THE SAND SURFACE, INSTALL NEW SAND FENCE WITHIN THE SAME FOOTPRINT OF THE EXISTING SAND FENCE OF THE OCEANWARD ROW LEAVING THE EXISTING SAND FENCES IN PLACE.

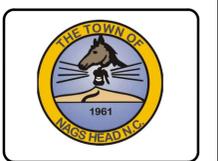
A3 TYPE C - HEIGHTEN OCEANWARD SAND FENCE OVER EXISTING FOOTPRINT
SCALE: NTS

GENERAL NOTES:

1. FOR LOCATIONS ON THE INSTALLATION OF PROPOSED SAND FENCING, SEE SHEET C-110 THRU C-129.
2. VEGETATION NOT SHOWN IN ALL SECTIONS. INSTALLATION OF SAND FENCE SHOULD ATTEMPT TO MINIMIZE IMPACT ON ESTABLISHED VEGETATION.
3. NO SAND FENCE SHALL BE ERRECTED OR HEIGHTENED WHERE AT LEAST ONE SAND FENCE HAS AN AVERAGE HEIGHT OVER 12 INCHES LOCATED OCEANWARD OF 20 FEET BEHIND WHERE THE DUNE CREST CURRENTLY EXISTS.

SAND FENCE SPECIFICATION NOTES:

1. SAND FENCING SHALL BE CONSTRUCTED FROM EVENLY SPACED THIN UNTREATED WOODEN VERTICAL SLATES CONNECTED WITH TWISTED WIRE, FOUR FEET IN HEIGHT AND SUPPORTED BY THREE WOODEN STAKES OR POSTS PER 1 FOOT SECTION, ONE STAKE AT EACH END, AND ONE IN THE MIDDLE.
2. SAND FENCING SHALL BE NEUTRAL IN COLOR (BEIGE, TAN, NATURAL WOOD FINISH). PLASTIC FENCING SHALL NOT BE ALLOWED.
3. FENCING MATERIAL SHALL BE INSTALLED ON THE NORTHEAST SIDE OF THE POSTS, AND SAND FENCING SHALL BE INSTALLED AT AN ANGLE NO LESS THAN 45 DEGREES TO THE SHORELINE.
4. EACH ROW OF SAND FENCING SHALL MAINTAIN A 7-FT MINIMUM OFFSET BETWEEN THE END POSTS, FROM ALL ADJACENT ROWS OF FENCING.
5. SAND FENCING SHALL BE ATTACHED TO THE POST OR STAKES IN THE FOLLOWING MANNER:
 - A. 2X4 POSTS SHALL BE INSTALLED SUCH THAT THE FENCING SHALL BE FASTENED TO THE 2" SIDE OF THE 2 X 4 WITH AN OVERLAP PROVIDED AT THE END POSTS AND ATTACHED FLUSH TO THE 4" SIDE OF THE 2X4.
 - B. ON EACH POST, EACH WIRE IN THE FENCING SHALL BE ATTACHED TO THE POST BY AN INCH AND A HALF (1.5") HOT DIPPED GALVANIZED FENCING STAPLE.
 - C. THE WIRE ENDS SHALL BE BENT ON THE END IN A MANNER TO PREVENT INJURY TO PEDESTRIAN TRAFFIC.
6. FENCING SHALL BE STRETCHED TIGHT AND EACH UNIT SHALL BE STRAIGHT ALONG IT'S LENGTH WITH POSTS INSTALLED PLUMB AND TO THE SPECIFIED DEPTH.
7. BEFORE INSTALLING THE FENCING MATERIAL THE CONTRACTOR SHALL TRENCH UNDER THE FENCE SO THAT WHEN INSTALLED THE BOTTOM OF THE FENCE IS 3" BELOW GRADE.
8. BREAKS IN THE NEW SAND FENCE LOCATIONS WILL BE PROVIDED AT EACH PUBLIC/PRIVATE ACCESS LOCATION AND MIMIC APPARENT OPENS IN EXISTING FENCE LINES. THE BREAKS SHALL HAVE A WIDTH RELATED TO THE PATH'S UTILITY: 10-FT WIDE AT RESIDENTIAL ACCESS, 20-FT WIDE AT END OF STREET ACCESS, 30-FT WIDE AT PUBLIC BEACH PEDESTRIAN ACCESS, AND 50-FT WIDE AT PUBLIC BEACH VEHICULAR ACCESS.
9. NEWLY INSTALLED SAND FENCING MUST MAINTAIN A 10-15 FT BUFFER BETWEEN EXISTING VEGETATION.

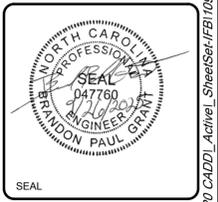


Rev.	Date	By	Description
0	2025-09-25	BPG	ISSUED FOR BID

TOWN OF NAGS HEAD BEACH RENOURISHMENT PROJECT 2026
PLANTING & SAND FENCE DETAILS

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Reviewed by: B. JOYNER	Submitted by: MOFFATT & NICHOL
Date: 2025-09-25	MAN Project No: 10979-16	Drawing code:	Drawing Scale: AS SHOWN	Per Scale: 1" = (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
ROSELAND, NC 27069
MOFFATT & NICHOL
NC FIRM NO. F-005

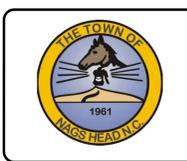


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Sheet Reference No.
C-501
INDEX: 42 OF 43

BEACH FILL WORK POINT TABLE				
POINT #	WORK POINT	NORTHING	EASTING	ELEVATION
1	WP1	828566.73	2995281.13	6.0
2	WP2	828203.98	2995545.47	6.0
3	WP3	827220.30	2996035.89	6.0
4	WP4	825676.96	2996866.42	6.0
5	WP5	824151.42	2997561.69	6.0
6	WP6	823253.78	2998002.21	6.0
7	WP7	822353.14	2998437.13	6.0
8	WP8	821451.98	2998869.45	6.0
9	WP9	820106.99	2999534.81	6.0
10	WP10	816103.01	3001591.29	6.0
11	WP11	815655.91	3001815.21	6.0
12	WP12	814761.23	3002263.31	6.0
13	WP13	810724.27	3004250.05	6.0
14	WP14	808064.30	3005640.86	6.0
15	WP15	805393.39	3007008.45	6.0
16	WP16	804494.39	3007446.57	6.0
17	WP17	804050.75	3007678.14	6.0
18	WP18	803187.72	3008184.90	6.0
19	WP19	802260.99	3008570.92	6.0
20	WP20	800897.67	3009197.81	6.0
21	WP21	799089.77	3010053.34	6.0
22	WP22	798192.51	3010493.78	6.0
23	WP23	797303.03	3010951.74	6.0
24	WP24	795504.80	3011828.44	6.0
25	WP25	795065.10	3012066.77	6.0
26	WP26	794162.48	3012500.21	6.0
27	WP27	793254.97	3012917.38	6.0
28	WP28	791886.85	3013533.21	6.0
29	WP29	791431.62	3013739.19	6.0
30	WP30	790984.36	3013963.52	6.0
31	WP31	790549.80	3014215.21	6.0
32	WP32	790099.92	3014432.40	6.0
33	WP33	789656.58	3014664.19	6.0

BEACH FILL WORK POINT TABLE				
POINT #	WORK POINT	NORTHING	EASTING	ELEVATION
34	WP34	788756.39	3015098.78	6.0
35	WP35	788291.43	3015292.05	6.0
36	WP36	786003.10	3016295.32	6.0
37	WP37	785592.03	3016595.71	6.0
38	WP38	784226.01	3017125.99	6.0
39	WP39	783238.76	3017525.18	6.0
40	WP40	782743.34	3017724.15	6.0
41	WP41	782302.92	3017970.41	6.0
42	WP42	781920.16	3018105.93	6.0
43	WP43	781750.08	3018166.14	6.0
44	WP44	781364.20	3018322.76	6.0
45	WP45	780859.73	3018302.92	6.0
46	WP46	780305.78	3018352.21	6.0
47	WP47	783924.21	3016947.06	12.0
48	WP48	783892.98	3017005.62	12.0
50	WP50	783725.99	3017077.63	12.0
51	WP51	783676.64	3017090.12	12.0
52	WP52	783640.83	3017101.48	12.0
53	WP53	783294.65	3017240.31	12.0
54	WP54	783139.34	3017298.63	12.0
55	WP55	782959.29	3017369.82	12.0
56	WP56	782764.22	3017447.81	12.0
57	WP57	782655.24	3017494.22	12.0
58	WP58	782384.34	3017599.26	12.0
59	WP59	782065.77	3017706.00	12.0
60	WP60	781885.22	3017776.94	12.0
61	WP61	781817.06	3017799.29	12.0
62	WP62	781751.77	3017819.09	12.0
63	WP63	781731.86	3017823.98	12.0
64	WP64	781478.98	3017920.05	12.0
65	WP65	781270.89	3018003.95	12.0
66	WP66	781008.44	3018077.68	12.0



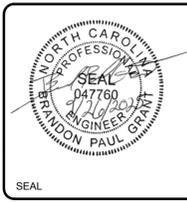
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TOWN OF NAGS HEAD BEACH
RENOURISHMENT PROJECT 2025

BEACH FILL WORK POINT TABLE

Designed by: B. GRANT	Drawn by: VNM	Checked by: BPG	Reviewed by: B. JOYNER	Submitted by: MOFATT & NICHOL
Date: 2025-09-29	M&N Project No. 10979-16	Drawing code:	Drawing Scale: AS SHOWN	Plot scale: 1" = 10' (0 SHEET)

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MOFATT & NICHOL
NC FIRM NO. F-005



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Sheet Reference No.
C-601
INDEX: 43 OF 43