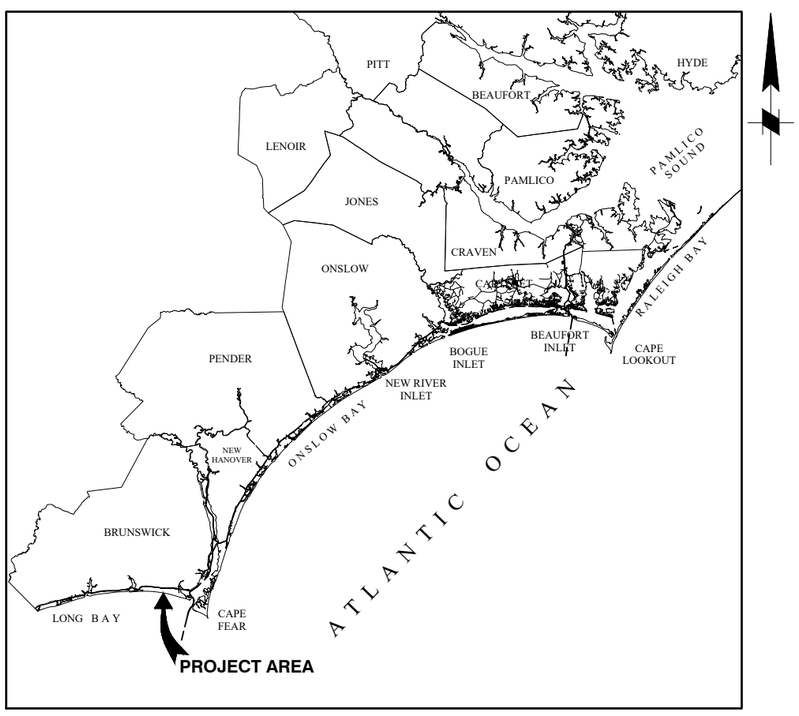
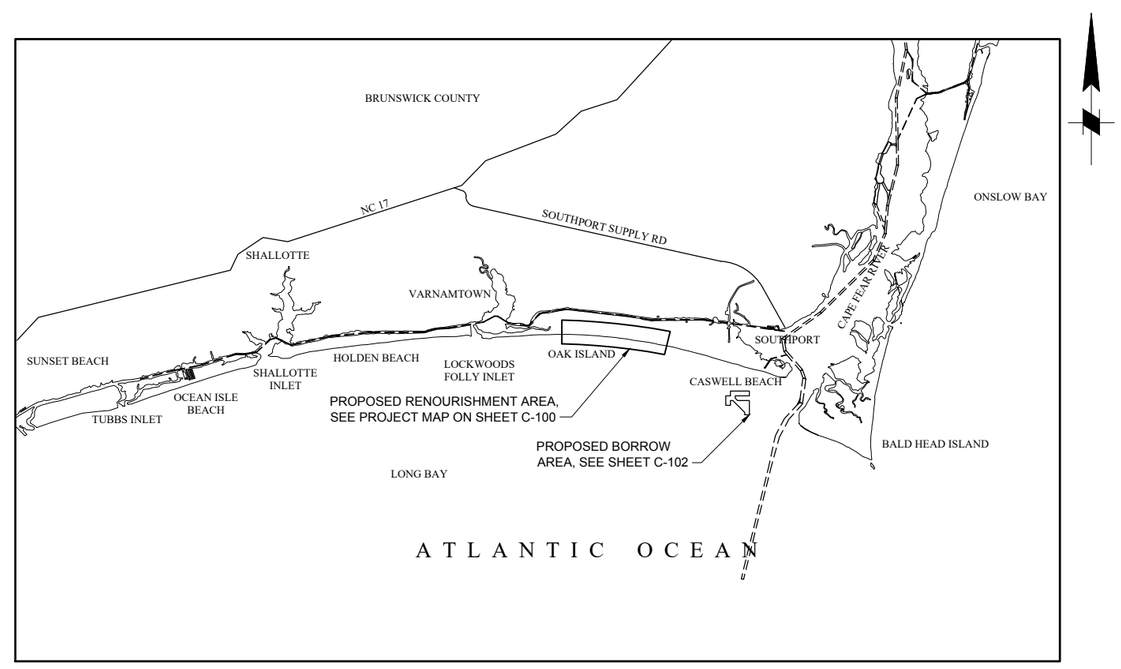
OAK ISLAND RENOURISHMENT PROJECT 2020/2021

OAK ISLAND, NORTH CAROLINA

TOWN OF OAK ISLAND
4601 E. OAK ISLAND DRIVE
OAK ISLAND, NC 28465



VICINITY MAP
NTS



LOCATION MAP
NTS

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

COVER SHEET

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

Sheet Reference No.
G-001
INDEX: 1 OF 42

File: Q:\10A\10128-01\0600_CAD_Active_10128\01 Sheetset\1012801-G-001 ; Plotted: 3/3/2021 11:17 AM by MORGAN, NEKOL ; Saved: 3/2/2021 7:31 PM by NMORGAN

DRAWING INDEX

FILL QUANTITIES

1. THE FOLLOWING ESTIMATES OF SAND QUANTITIES REQUIRED FOR THE PROJECT ARE:

BASE PROJECT: START TO STA 415+00	530,000 CY
ADD ALTERNATE #1: STA 415+00 TO 460+00	165,000 CY
ADD ALTERNATE #2: STA 460+00 TO END	165,000 CY
BEACH RESTORATION: TOTAL	860,000 CY

2. THE FOLLOWING ESTIMATES OF PLANTING QUANTITIES REQUIRED FOR THE PROJECT ARE:

BASE PROJECT: START TO STA 415+00	45,000 SY
ADD ALTERNATE #1: STA 415+00 TO 460+00	16,000 SY
ADD ALTERNATE #2: STA 460+00 TO END	14,000 SY
DUNE PLANTING: TOTAL	75,000 SY

GENERAL NOTES:

1. ALL BEACH FILL, DREDGING AND PLANTING WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
2. 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 THE TECHNICAL SPECIFICATIONS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY OWNER OF DISCREPANCIES.
4. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE CONTRACTORS RESPONSIBILITY.
5. THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED LANDFILL.
6. 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.
7. THE STAGING AND ACCESS AREAS SHOWN ON G-004 ARE OWNED BY THE TOWN OF OAK ISLAND. COORDINATION WITH THE TOWN MANAGER SHALL BE REQUIRED BEFORE USE. FOR THE STAGING AND ACCESS AREAS, THE POINT OF CONTACT IS:

   MR. DAVID KELLY
   TOWN MANAGER
   TOWN OF OAK ISLAND
   4601 EAST OAK ISLAND DRIVE
   OAK ISLAND, NC 28465
   (910) 201-8002
   dkelly@ci.oak-island.nc.us

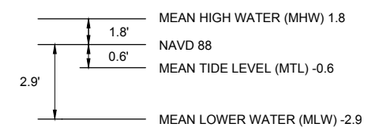
   SEE THE TECHNICAL SPECIFICATIONS FOR A DESCRIPTION AND PHOTOS OF STAGING AND ACCESS AREAS.
8. STAGING AND ACCESS AREAS SHALL BE MAINTAINED BY THE CONTRACTOR. STAGING AND ACCESS AREAS SHALL BE CLEARED OF DEBRIS AND CONTRACTOR INSTALLED AMENITIES AT THE COMPLETION AND ACCEPTANCE OF WORK IN THE AREA. THE CONTRACTOR SHALL RESTORE THE STAGING AND ACCESS AREAS TO THEIR ORIGINAL CONDITION AFTER WORK IN THE AREA IS COMPLETE. THIS WORK INCLUDES 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.
9. UNLESS OTHERWISE APPROVED BY THE OWNER, EXCESS EQUIPMENT MAY ONLY BE STORED IN APPROVED STORAGE/STAGING AREAS OR TEMPORARY AREAS IN THE IMMEDIATE VICINITY OF THE BEACHFILL PLACEMENT SITE. THE OWNER RESERVES THE RIGHT TO LIMIT SUCH AREAS AS DEEMED NECESSARY. OPERATION OF GRADING AND OTHER CONSTRUCTION EQUIPMENT WILL NOT BE PERMITTED OUTSIDE THE WORK AREA LIMITS EXCEPT FOR INGRESS AND EGRESS OF THE SITE AT APPROVED LOCATIONS. THE STACKING OF DISCHARGE PIPES IN LAYERS EXCEEDING TWO PIPES HIGH SHALL BE PROHIBITED IN ANY OF THE STORAGE OR STAGING AREAS INCLUDING THE TEMPORARY AREAS.
10. 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.

DREDGING

1. ALL DREDGING SHALL BE PERFORMED WITHIN THE LIMITS OF THE PERMITTED DREDGING AREA AS SHOWN IN THE DRAWINGS.
2. PIPELINE CORRIDOR SHALL BE DELINEATED WITH BUOYS BY THE CONTRACTOR IN THE PRESENCE OF THE ENGINEER/OWNER BEFORE PLACEMENT.
3. A POST-DREDGE SURVEY OF THE BORROW AREA SHALL BE COMPLETED BY AN INDEPENDENT PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NORTH CAROLINA, COORDINATED AND PAID FOR BY THE CONTRACTOR TO STANDARDS OUTLINED IN THE TECHNICAL SPECIFICATIONS.
4. THE PLANE COORDINATES AND BEARINGS SHOWN FOR THE DREDGING SURVEYS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 83 (NAD 83).
5. ALL ELEVATIONS SHOWN ON THE DREDGING DRAWINGS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
6. THE BATHYMETRY PRESENTED ON THE DREDGING PLANS IS BASED ON A SURVEY COMPLETED IN JUNE 2019 BY GEODYNAMICS AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.

BEACH FILL

1. 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.
2. AFTER NOTIFICATION BY THE CONTRACTOR OF THEIR INTENT TO COMMENCE DREDGING AND SAND PLACEMENT, A CURRENT BEACH SURVEY WILL BE PERFORMED BY THE CONTRACTOR NO MORE THAN 6 WEEKS BEFORE CONSTRUCTION. TRANSECTS SHALL BE AT 100 FOOT INTERVALS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE UPDATED SURVEY AT LEAST 3 WEEKS PRIOR TO THE COMMENCEMENT OF BEACH FILL PLACEMENT. THE UPDATED BEACH SURVEY WILL BE USED TO ADJUST THE LIMITS AND GRADE LINES TO GENERALLY MEET THE FILL DENSITIES PROVIDED WITH THE SECTIONS ON SHEETS C-301 THRU C-313.
3. SAND SHALL BE PLACED WITHIN THESE LIMITS AND GRADE LINES AS PRACTICALLY AS POSSIBLE. TOLERANCE SHALL BE WITHIN ±0.5 FOOT FOR DUNE AND BERM FEATURE OUT TO THE MEAN TIDE LEVEL (MTL). PAYMENT WILL BE MADE FOR THE CY/FT SHOWN ON THE ADJUSTED FILL TEMPLATE 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 FROM EAST TO WEST.
4. 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.
5. CONTRACTOR SHALL TAKE CARE TO GRADE THE DUNE AND BERM FEATURE SO THAT PONDING LANDWARD OF THE CRESTS IS MINIMIZED.
6. EXISTING WALKWAYS SHALL REMAIN AND NOT BE DAMAGED BEYOND CURRENT CONDITIONS. ANY ADDITIONAL DAMAGE WILL BE REPAIRED OR REPLACED AT THE CONTRACTORS COST AS DIRECTED BY THE OWNER OR THE ENGINEER. FILL SHALL BE PLACED COMPLETELY UNDERNEATH AND/OR AROUND STRUCTURES.
7. THE PLANE COORDINATES AND BEARINGS SHOWN FOR THE BEACH FILL SURVEYS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 83 (NAD 83).
8. ALL ELEVATIONS SHOWN ON THE BEACH FILL DRAWINGS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
9. THE BATHYMETRY/TOPOGRAPHY PRESENTED ON THE BEACH FILL PLANS AND SECTIONS IS BASED ON A SURVEY COMPLETED IN JANUARY 2021 BY TI COASTAL AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
10. THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE BEACH FILL DRAWINGS AND BELOW ARE BASED ON NOAA TIDAL DATUMS AT THE OAK ISLAND, ATLANTIC OCEAN, NC STATION.



11. CONTOURS FOR THE BEACH FILL PLANS ARE SHOWN AT 1 FT INTERVALS.
12. PRE- AND POST-CONSTRUCTION SURVEYS OF THE BEACH AREA SHALL BE COMPLETED BY AN INDEPENDENT PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NORTH CAROLINA, 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.
13. BEACH FILL SLOPES CALLED OUT ON PLANS ARE HORIZONTAL : VERTICAL.
14. SEE TECHNICAL SPECIFICATION FOR ADDITIONAL PLACEMENT REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE TEMPORARY SAND RAMPS OVER THE PIPELINE FOR PEDESTRIAN AND EMERGENCY VEHICLE ACCESS ALONG THE BEACH. 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 CONTRACTOR SHALL ALSO CONSTRUCT A BARRIER TO KEEP THE PUBLIC AT LEAST 250 FEET FROM THE DISCHARGE PIPE IN BOTH DIRECTIONS UP AND DOWN THE BEACH. SEE THE TECHNICAL SPECIFICATIONS.

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

DRAWING INDEX AND NOTES

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Rev. 1

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
G-002
INDEX: 2 OF 42

File: Q:\RA\10128-01\0300_CAD_Active_10128\01 SheetSet\10128\01-G-002 ; Plotted: 3/3/2021 11:17 AM by MORGAN, NEKOL ; Saved: 2/25/2021 1:31 PM by NMORGAN

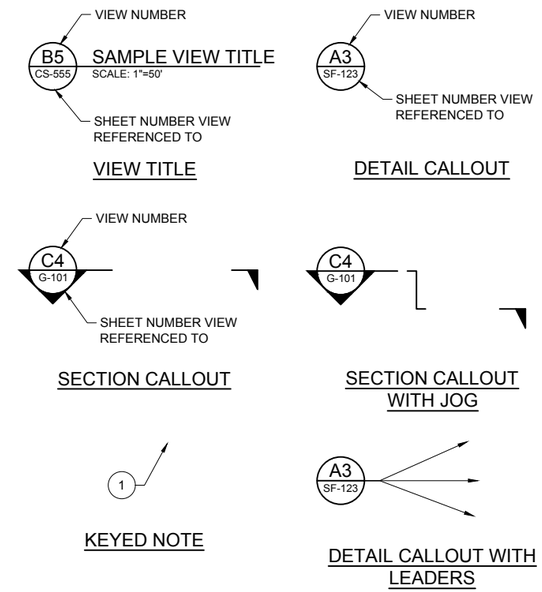
ABBREVIATIONS

CY	CUBIC YARDS	No.	NUMBER
FT	FEET OR FOOT	TYP	TYPICAL
MHW	MEAN HIGH WATER	WP	WORK POINT
MLW	MEAN LOW WATER	℄	BASELINE
MTL	MEAN TIDE LEVEL	@	AT
NAD	NORTH AMERICAN DATUM	~	APPROXIMATELY
NAVD	NORTH AMERICAN VERTICAL DATUM		
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		

LEGEND

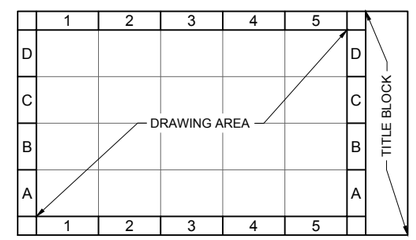
EXISTING		PROPOSED
	MEAN HIGH WATER LINE	
	MEAN LOW WATER LINE	
	MEAN TIDE LEVEL LINE	
	PROPERTY LINE	
5	MAJOR CONTOUR	
	MINOR CONTOUR	
	FILL SLOPE LIMIT	
	FILL SLOPE BREAK	
	CONSTRUCTION BASELINE WORK POINT	WP-##
NAME	NGS STATION	

LEGEND



* 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)

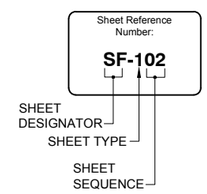
SHEET TYPE DESIGNATORS	
0	GENERAL (COVER SHEET, LEGEND, NOTES)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT. OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	USER DEFINED
8	USER DEFINED
9	3D ISOMETRIC



DRAWING AREA COORDINATE SYSTEM (DACS)

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL WORKS	W
CIVIL	C
STRUCTURAL	S
MECHANICAL	M
ELECTRICAL	E
OTHER DISCIPLINES	X

SECONDARY DESIGNATORS	
DEMOLITION	D
GENERAL	G
SUBSTRUCTURE	B
FRAMING	F
COMPONENT	C
SITE	S



Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

ABBREVIATIONS & LEGEND

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

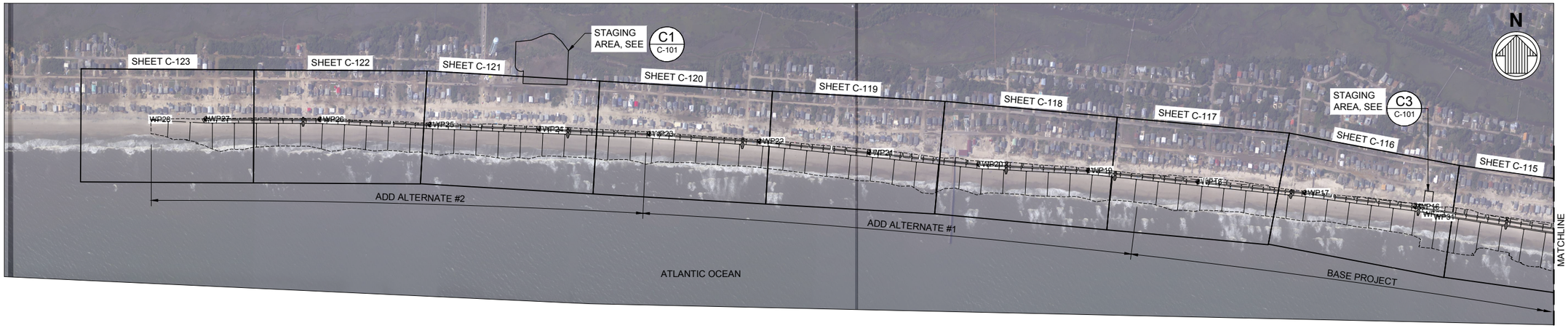
SEAL

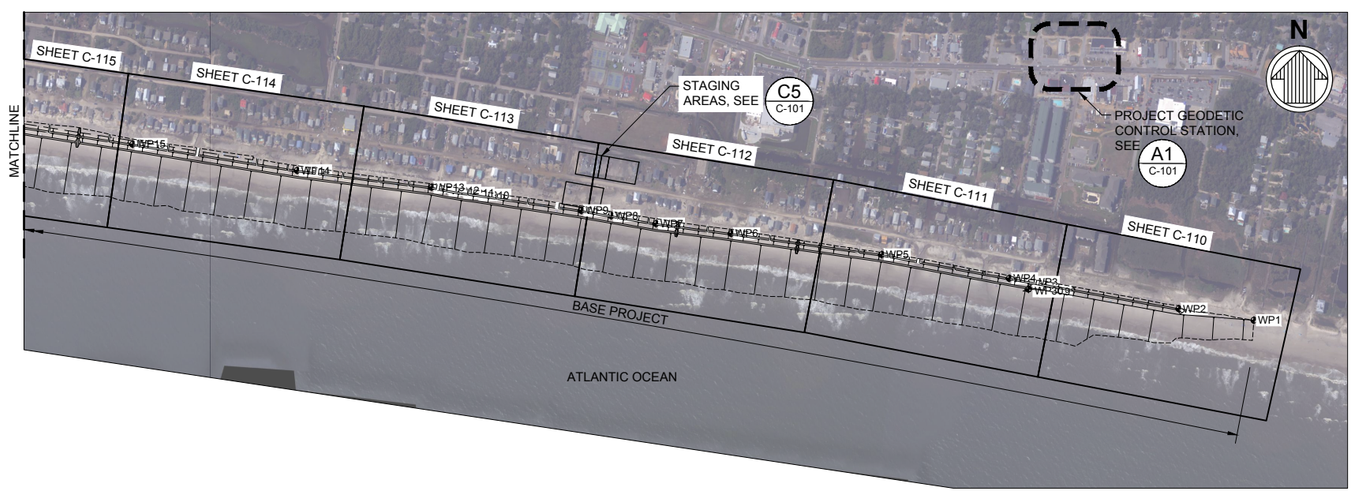
Sheet Reference No.

G-003

INDEX: 3 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_1012801 SheetSet\10128001-G-003 ; Plotted: 3/3/2021 11:17 AM by MORGAN, NEKOL ; Saved: 9/11/2019 5:51 PM by BFORD





250' 0' 250' 500'

SCALE: 1"=500'

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

KEY PLAN

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Reviewed by: JDM
Drawing code:
Submitted by: MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

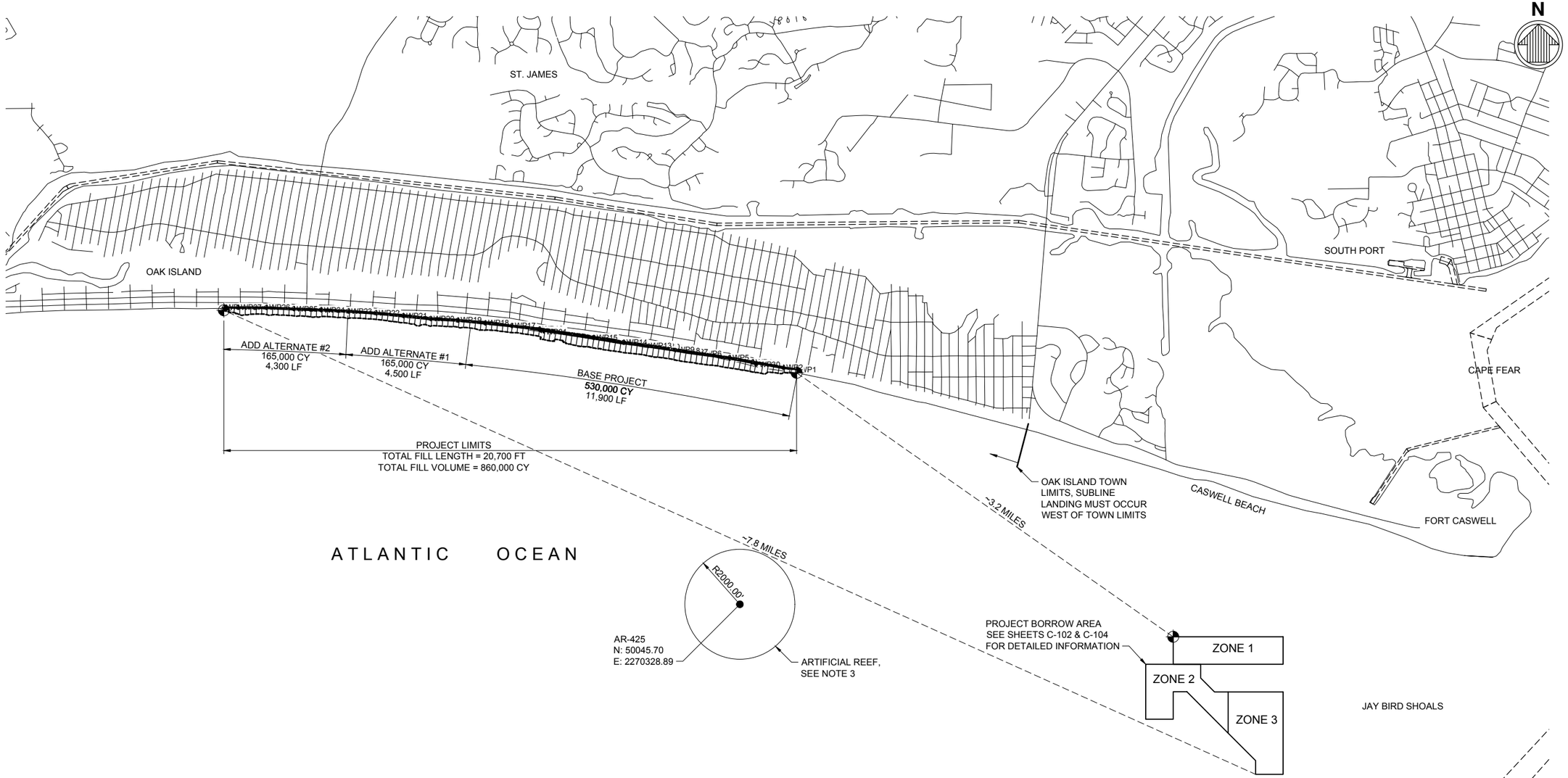
SEAL

Sheet Reference No.

G-004

INDEX: 4 OF 42

File: Q:\0A\10128-01\0600_CAD_Active_10\12801 SheetSet\1012801-G-004 ; Plotted: 3/3/2021 11:19 AM by MORGAN, NEKOL ; Saved: 3/2/2021 8:57 AM by MMORGAN



NOTES:

1. OFFLOADING STATION AT BEACH NOURISHMENT SITES SHALL BE USED TO PUMP DREDGED MATERIAL ONTO BEACH. THIS STATION SHALL MOVE EAST OR WEST AS THE NOURISHMENT PROJECT IS COMPLETED. DREDGED MATERIAL SHALL BE TRANSPORTED FROM THE BORROW AREA DIRECTLY BY THE DREDGE AND OFFLOADED AT THIS LOCATION. CONTRACTOR SHALL PROVIDE MAP OF PROPOSED OFFLOADINGS STATIONS AND PIPELINE IN ACCORDANCE WITH PERMITS, SEE TECHNICAL SPECIFICATIONS.
2. CONTRACTOR SHALL BEGIN PROJECT AT STATION 295+00 AND MOVE WEST.
3. 2,000 FOOT BUFFER FOR PLACEMENT OF ANY PROJECT EQUIPMENT AROUND AR-425.

2000' 0' 2000' 4000'

SCALE: 1"=2000'

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

PROJECT MAP

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

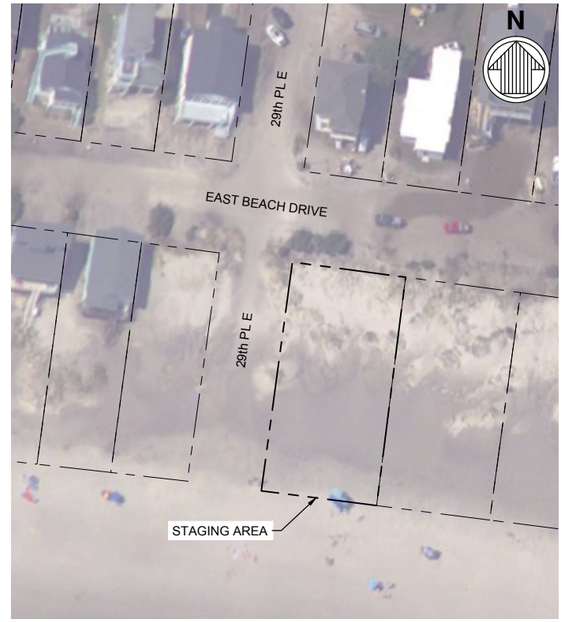
Sheet Reference No.

C-100

INDEX: 5 OF 42

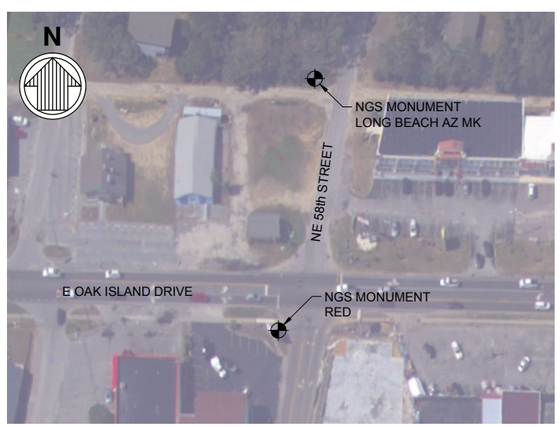
File: Q:\RA\10128-01\0500_CAD_Active_10128\01 SheetSet\10128\01-C-100 ; Plotted: 3/3/2021 11:20 AM by MORGAN, NEKOL ; Saved: 3/2/2021 6:42 AM by MMORGAN

C1 G-004 STAGING AREA
NOT TO SCALE



C3 G-004 STAGING AREA
NOT TO SCALE

C5 G-004 STAGING AREAS
NOT TO SCALE



MONUMENT	NORTHING	EASTING	ELEVATION
LONG BEACH AZ MK	60475.50	2271271.11	17.82
RED	60209.52	2271232.70	13.23

A1 G-004 PROJECT GEODEDETIC CONTROL STATIONS
NOT TO SCALE

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

PROJECT STAGING, ACCESS, AND SURVEY CONTROL PLANS

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 101280-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

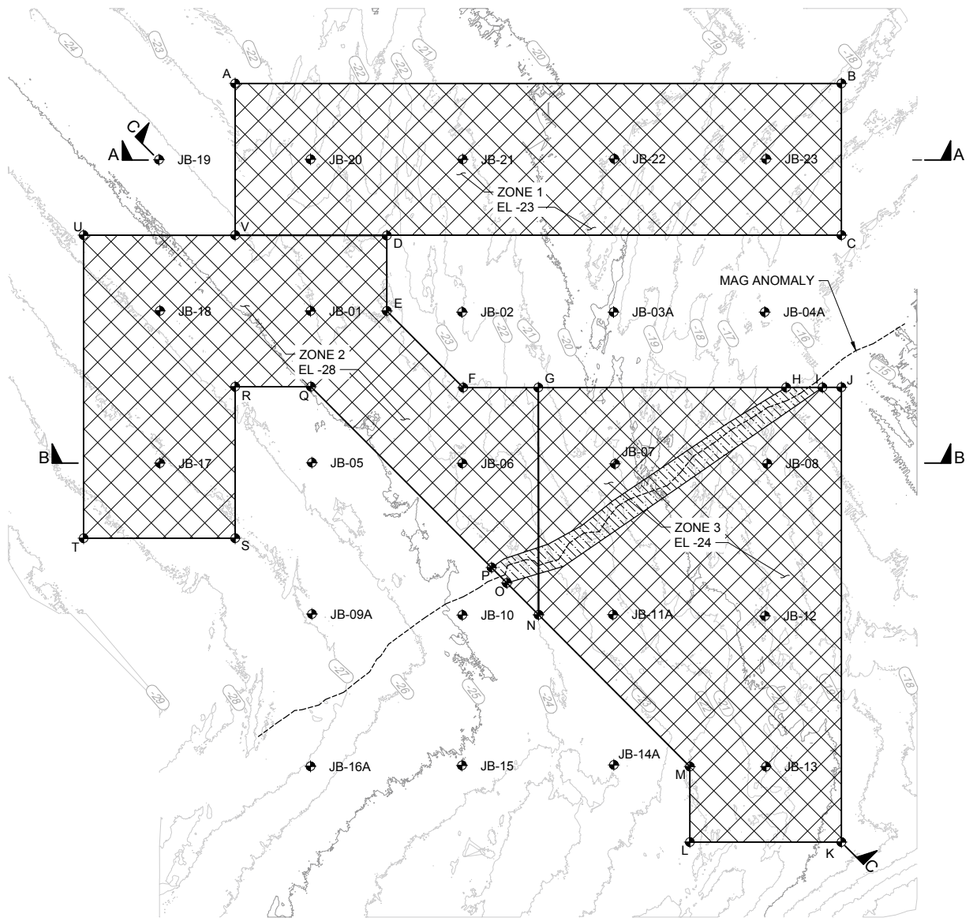
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
C-101
INDEX: 6 OF 42

File: Q:\R4\101280-01\0600_CAD_Active_101280\1 SheetSet\101280\1-C-101 ; Plotted: 3/3/2021 11:21 AM by MORGAN, NEKOL ; Saved: 3/2/2021 8:44 AM by NMORGAN



LEGEND

- A — PROPOSED BORROW AREA CONTROL POINT
- JB-# — JAY BIRD SHOALS VIBRACORES
- JAY BIRD SHOALS BORROW AREA
- MIN 50' BUFFER EITHER SIDE OF THE MAG ANOMALY
- ---- MAG ANOMALY

JAY BIRD SHOALS ZONES COORDINATE TABLE

POINT	NORTHING	EASTING
A	48860.91	2286099.73
B	48860.91	2290099.73
C	47860.91	2290099.73
D	47857.74	2287099.73
E	47360.91	2287099.73
F	46854.57	2287604.15
G	46854.89	2288099.73
H	46855.61	2289734.56
I	46856.06	2289974.37
J	46856.16	2290099.73
K	43856.16	2290099.73
L	43856.16	2289099.73
M	44354.57	2289099.73
N	45356.15	2288101.32
O	45565.66	2287892.48
P	45667.35	2287791.65
Q	46860.91	2286599.73
R	46860.91	2286099.73
S	45860.91	2286099.73
T	45860.91	2285099.73
U	47860.91	2285099.73
V	47860.91	2286099.73

JAY BIRD SHOALS VIBRACORES COORDINATE TABLE

POINT	NORTHING	EASTING
JB-01	47360.59	2286596.46
JB-02	47353.14	2287596.89
JB-03A	47352.99	2288596.24
JB-04A	47353.46	2289594.06
JB-05	46359.73	2286605.98
JB-06	46354.62	2287598.32
JB-07	46351.51	2288605.83
JB-08	46352.65	2289609.75
JB-09A	45360.59	2286606.37
JB-10	45354.27	2287598.25
JB-11A	45357.10	2288592.58
JB-12	45348.52	2289595.11
JB-13	44354.30	2289602.14
JB-14A	44365.30	2288598.53
JB-15	44361.78	2287596.08
JB-16A	44355.91	2286597.20
JB-17	46356.27	2285603.09
JB-18	47361.47	2285602.67
JB-19	48358.73	2285596.76
JB-20	48360.94	2286596.56
JB-21	48360.80	2287600.43
JB-22	48363.69	2288600.72
JB-23	48362.99	2289602.58

NOTES

1. BATHYMETRY CONTOURS SHOWN IN FEET REFERENCED TO NAVD88 ARE BASED ON MULTIBEAM SURVEYS PERFORMED BY GEODYNAMICS IN JUNE 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEY.
2. BORROW AREA COORDINATES ARE NORTH CAROLINA STATE PLANE, NAD83 (FEET).
3. THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE DREDGE SECTIONS ARE BASED ON NOAA TIDAL DATUM AT THE OAK ISLAND, ATLANTIC OCEAN, NC STATION #8659182.
4. OTHER CONTRACTORS MAY BE PRESENT IN AREAS WHERE DREDGING OF BEACH FILL MATERIALS IS TO OCCUR. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACTIVITIES.
5. SEE TECHNICAL SPECIFICATIONS FOR DATA SUMMARY OF THE ARCHAEOLOGICAL REMOTE SENSING AND TARGET IDENTIFICATION STUDY. THE STUDY CONCLUDES THAT THE TARGETS CONSIST OF MODERN DEBRIS (WIRE ROPE, PIPE, ETC.)
6. FOR JAY BIRD SHOALS BORROW AREA DREDGE SECTIONS, SEE SHEET C-103.
7. FOR JAY BIRD SHOALS BORROW AREA VIBRACORE SUMMARY TABLE, SEE SHEET C-106.

500' 0' 500' 1000'

SCALE: 1"=500'

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

BORROW AREA PLAN
VIEW - HOPPER DREDGE

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

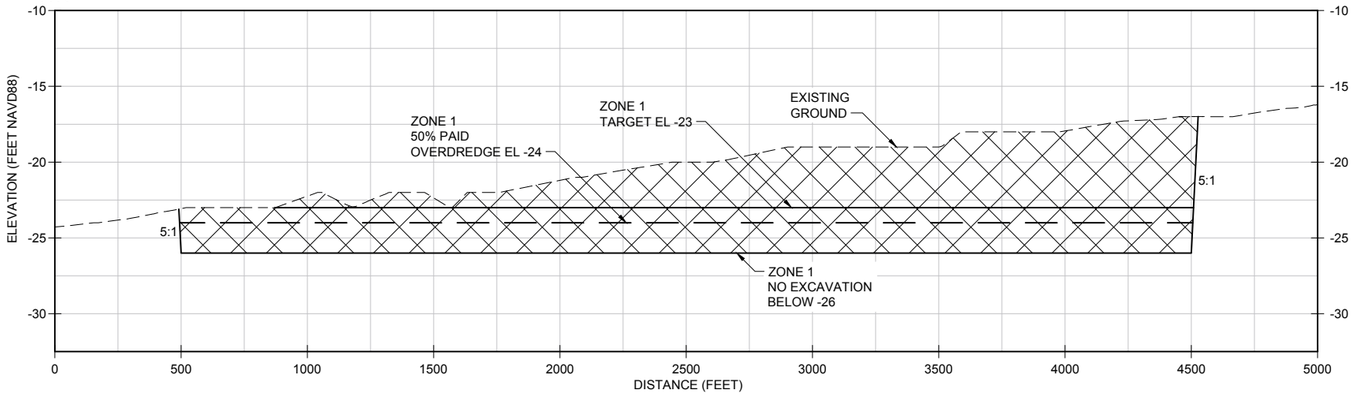
NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

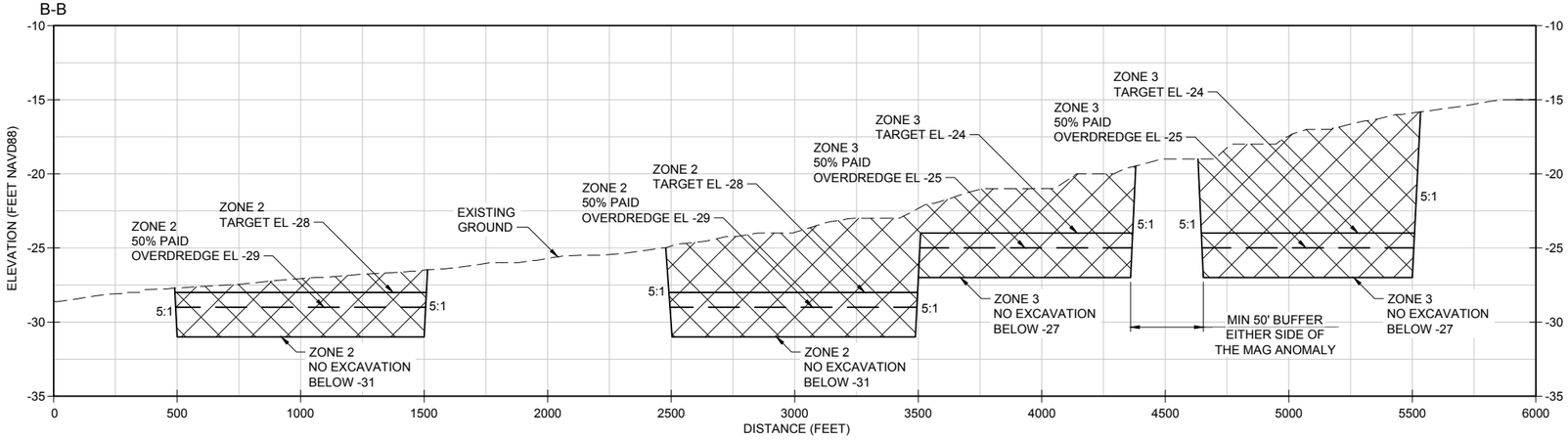
Sheet Reference No.
C-102
INDEX: 7 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheetset\1012801-C-102 ; Plotted: 3/3/2021 11:23 AM by MORGAN, NEKOL ; Saved: 4/2/2020 4:38 PM by BFORD

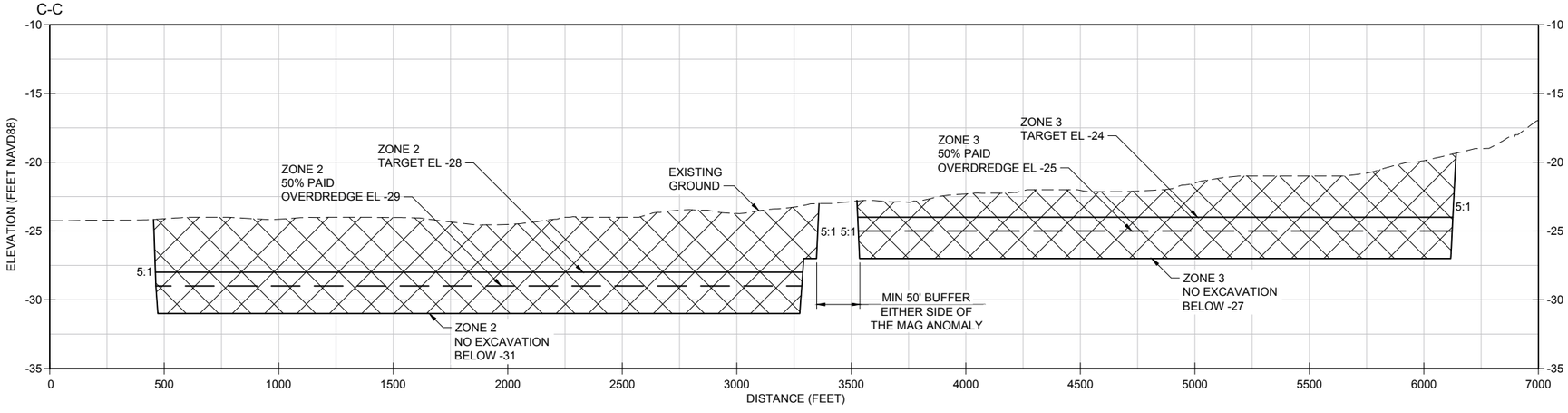
A-A



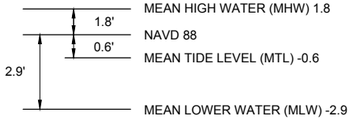
B-B

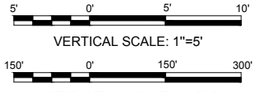


C-C



WATER LEVELS





TOWN OF OAK ISLAND NORTH CAROLINA

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

BORROW AREA CROSS SECTIONS - HOPPER DREDGE

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

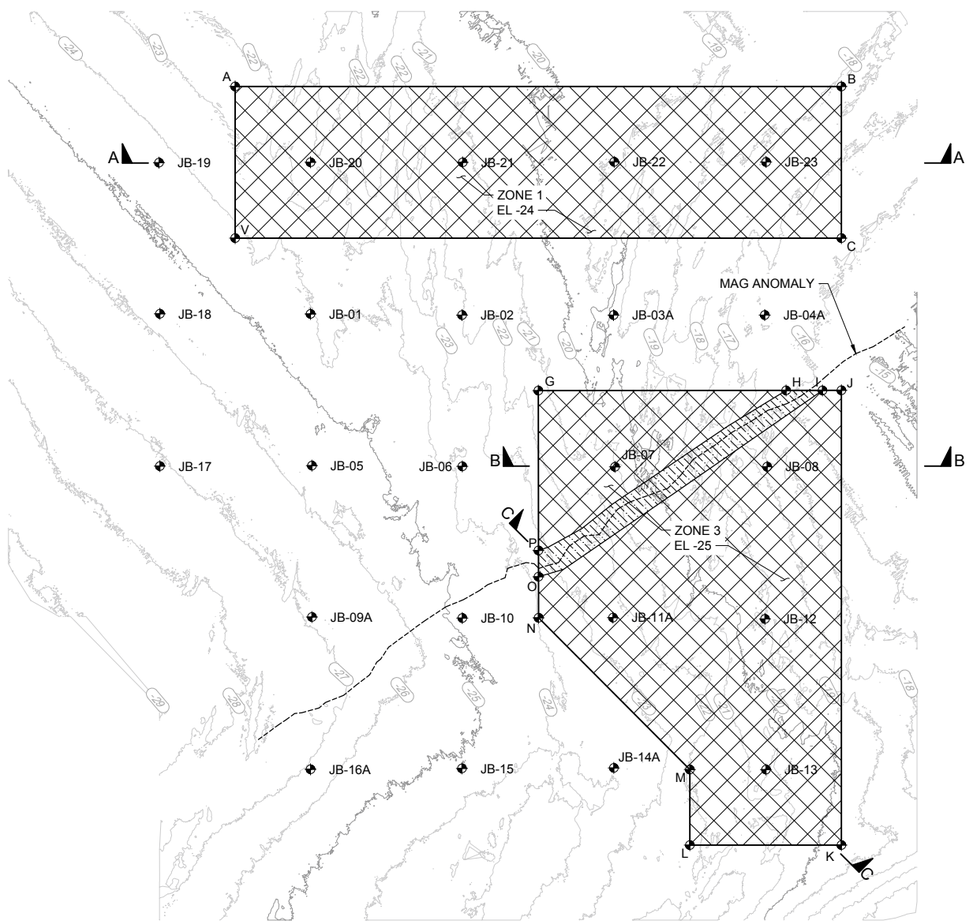
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
C-103
INDEX: 8 OF 42

File: Q:\0A\10128-010\60_CAD_Active_10128\01 Sheetset\1012801-C-103 ; Plotted: 3/3/2021 11:23 AM by MORGAN, NEKOL ; Saved: 4/2/2020 4:38 PM by BFORD



LEGEND

- A — PROPOSED BORROW AREA CONTROL POINT
- JB-# — JAY BIRD SHOALS VIBRACORES
- JAY BIRD SHOALS BORROW AREA
- MIN 50' BUFFER EITHER SIDE OF THE MAG ANOMALY
- ---- MAG ANOMALY

JAY BIRD SHOALS ZONES COORDINATE TABLE

POINT	NORTHING	EASTING
A	48860.91	2286099.73
B	48860.91	2290099.73
C	47860.91	2290099.73
G	46854.89	2288099.73
H	46855.61	2289734.56
I	46856.06	2289974.37
J	46856.16	2290099.73
K	43856.16	2290099.73
L	43856.16	2289099.73
M	44354.57	2289099.73
N	45356.15	2288101.32
O	45626.82	2288101.03
P	45800.34	2288100.85
V	47860.91	2286099.73

JAY BIRD SHOALS VIBRACORES COORDINATE TABLE

POINT	NORTHING	EASTING
JB-01	47360.59	2286596.46
JB-02	47353.14	2287596.89
JB-03A	47352.99	2288596.24
JB-04A	47353.46	2289594.06
JB-05	46359.73	2286605.98
JB-06	46354.62	2287598.32
JB-07	46351.51	2288605.83
JB-08	46352.65	2289609.75
JB-09A	45360.59	2286606.37
JB-10	45354.27	2287598.25
JB-11A	45357.10	2288592.58
JB-12	45348.52	2289595.11
JB-13	44354.30	2289602.14
JB-14A	44365.30	2288598.53
JB-15	44361.78	2287596.08
JB-16A	44355.91	2286597.20
JB-17	46356.27	2285603.09
JB-18	47361.47	2285602.67
JB-19	48358.73	2285596.76
JB-20	48360.94	2286596.56
JB-21	48360.80	2287600.43
JB-22	48363.69	2288600.72
JB-23	48362.99	2289602.58

NOTES

1. BATHYMETRY CONTOURS SHOWN IN FEET REFERENCED TO NAVD88 ARE BASED ON MULTIBEAM SURVEYS PERFORMED BY GEODYNAMICS IN JUNE 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEY.
2. BORROW AREA COORDINATES ARE NORTH CAROLINA STATE PLANE, NAD83 (FEET).
3. THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE DREDGE SECTIONS ARE BASED ON NOAA TIDAL DATUM AT THE OAK ISLAND, ATLANTIC OCEAN, NC STATION #8659182.
4. OTHER CONTRACTORS MAY BE PRESENT IN AREAS WHERE DREDGING OF BEACH FILL MATERIALS IS TO OCCUR. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACTIVITIES.
5. SEE TECHNICAL SPECIFICATIONS FOR DATA SUMMARY OF THE ARCHAEOLOGICAL REMOTE SENSING AND TARGET IDENTIFICATION STUDY. THE STUDY CONCLUDES THAT THE TARGETS CONSIST OF MODERN DEBRIS (WIRE ROPE, PIPE, ETC.)
6. FOR JAY BIRD SHOALS BORROW AREA DREDGE SECTIONS, SEE SHEET C-105.
7. FOR JAY BIRD SHOALS BORROW AREA VIBRACORE SUMMARY TABLE, SEE SHEET C-106.

500' 0' 500' 1000'

SCALE: 1"=500'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

BORROW AREA PLAN VIEW - HYDRAULIC PIPELINE DREDGE

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

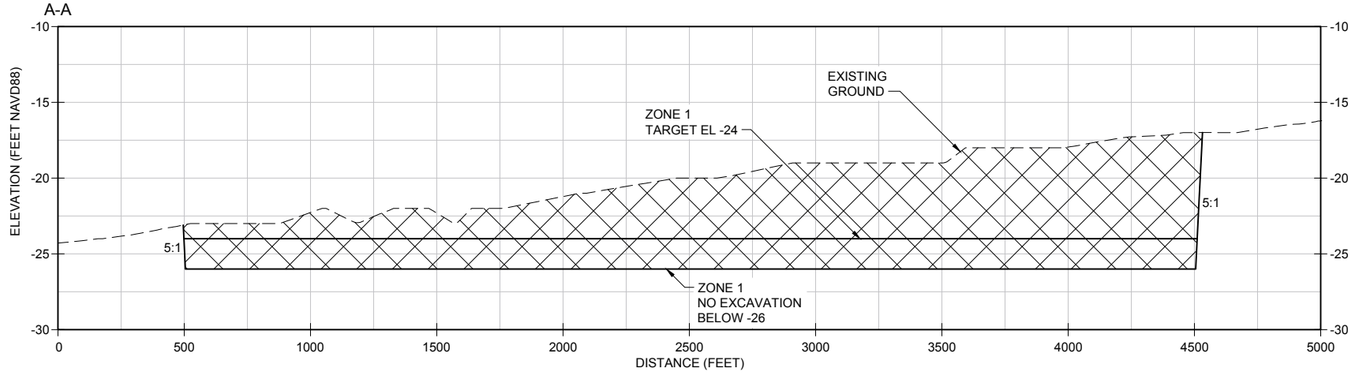
Sheet Reference No.

C-104

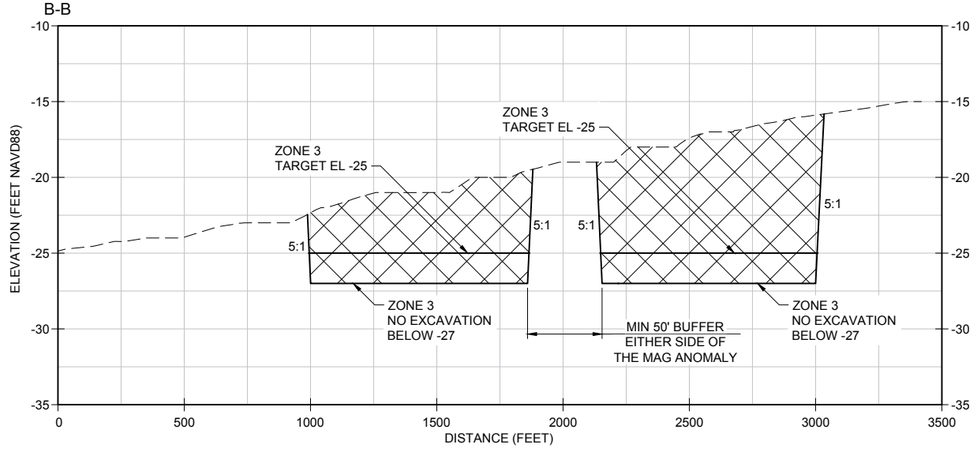
INDEX: 9 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheetset\1012801-C-104 ; Plotted: 3/3/2021 11:25 AM by MORGAN, NEKOL ; Saved: 4/3/2020 9:42 AM by BFORD

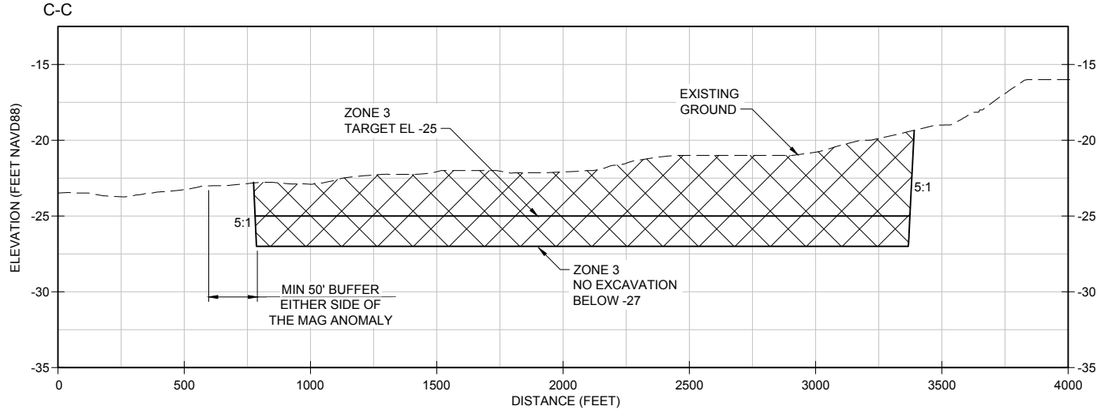
A-A



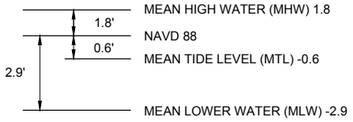
B-B

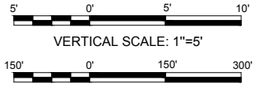


C-C



WATER LEVELS





Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

BORROW AREA CROSS SECTIONS - HYDRAULIC PIPELINE DREDGE

Date: 03/03/2021 | Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

Sheet Reference No.

C-105

INDEX: 10 OF 42

File: Q:\RA\10128-01\0300_CAD_Active_1012801 Sheets\Set\10128C1-C-105 ; Plotted: 3/3/2021 11:25 AM by MORGAN, NEKOL ; Saved: 4/3/2020 9:42 AM by BFORD

Oak Island Sediment Compatibility

Native Sediment Characteristics

Reference - (Athena, March 2019)

Mean	1.90 phi	0.27 mm
Standard Deviation	0.81 phi	0.57 mm

Borrow Area Sediment Characteristics - Jay Bird Shoals

Reference - (American Vibracore Services, April 2019)

Mean	1.60 phi	0.33 mm
Standard Deviation	1.46 phi	0.36 mm

Percent Gravel	1.62%
Percent Granular	3.88%
Percent Sand	89.77%
Percent Fines	4.74%

Summary of Jay Bird Shoals Borrow Area Sediment Characteristics

Vibracore	Sample Number	Sample Depth (ft)	Sample Elevation (ft NAVD88)			Permitted Dredge Elevation (ft NAVD88)	Gravel (%)	Granular (%)	Sand (%)	<#230 (%)	Carbonate (%)	Mean (mm)	Mean (phi)
JB-01	1	0-0.9	-24.2	-	-25.1	-31.0	2.18	1.99	92.25	3.58	6.80	0.34	1.56
	2	0.9-3.3	-25.1	-	-27.5		3.20	6.66	80.27	9.87	6.80	0.45	1.15
	3	3.3-6	-27.5	-	-30.2		3.94	5.72	86.20	4.14	6.80	0.40	1.32
	4	6-17	-30.2	-	-41.2		0.03	0.34	97.21	2.42	20.80	0.27	1.89
JB-06	1	0-1.7	-23.6	-	-25.3	-31.0	2.48	5.24	86.14	6.14	13.80	0.33	1.60
	2	1.7-2.1	-25.3	-	-25.7		6.87	9.49	80.50	3.14	13.80	0.64	0.64
	3	2.1-10	-25.7	-	-33.6		0.17	1.87	91.05	6.91	13.20	0.26	1.92
JB-07	1	0-2	-21.0	-	-23.0	-27.0	0.67	2.69	91.64	5.00	9.30	0.26	1.93
	2	2-5	-23.0	-	-26.0		3.74	7.67	82.56	6.03	9.30	0.40	1.32
	3	5-8	-26.0	-	-29.0		3.51	7.68	81.03	7.78	11.80	0.45	1.14
JB-08	1	0-2.5	-17.5	-	-20.0	-27.0	0.17	0.61	94.04	5.18	9.60	0.18	2.45
	2	2.5-5	-20.0	-	-22.5		0.71	1.94	95.21	2.14	9.60	0.32	1.64
	3	5-6	-22.5	-	-23.5		4.55	6.91	82.26	6.28	10.50	0.56	0.83
	4	6-16	-23.5	-	-33.5		0.33	5.01	90.79	3.87	10.50	0.39	1.36
JB-11A	1	0-2	-22.3	-	-24.3	-27.0	4.74	3.26	85.71	6.29	18.50	0.24	2.04
	2	2-6.5	-24.3	-	-28.8		2.24	8.46	85.57	3.73	18.50	0.43	1.22
JB-12	1	0-1.6	-18.8	-	-20.4	-27.0	0.15	0.69	97.60	1.56	5.90	0.33	1.60
	2	1.6-7	-20.4	-	-25.8		0.65	2.67	92.11	4.57	5.90	0.25	1.98
	3	7-16	-25.8	-	-34.8		3.19	5.36	85.72	5.73	18.80	0.35	1.51
JB-13	1	0-1.5	-20.9	-	-22.4	-27.0	0.95	2.58	94.42	2.05	10.00	0.33	1.60
	2	1.5-3.1	-22.4	-	-24.0		0.11	1.05	92.08	6.76	10.00	0.19	2.40
	3	3.1-4.4	-24.0	-	-25.3		5.90	11.41	76.31	6.38	21.10	0.58	0.79
	4	4.4-10.5	-25.3	-	-31.4		5.53	5.48	84.25	4.74	21.10	0.48	1.05
JB-17	1	0-1.3	-27.1	-	-28.4	-31.0	0.47	5.60	86.92	7.01	14.70	0.37	1.43
	2	1.3-11.6	-28.4	-	-38.7		0.82	1.15	93.95	4.08	11.00	0.27	1.87
JB-18	1	0-0.5	-25.7	-	-26.2	-31.0	3.98	14.80	75.22	6.00	21.20	0.66	0.60
	2	0.5-6	-26.2	-	-31.7		1.63	7.85	86.06	4.46	21.20	0.35	1.51
JB-20	1	0-4	-22.5	-	-26.5	-26.0	2.64	5.78	85.19	6.39	18.20	0.34	1.56
JB-21	1	0-4.5	-21.6	-	-26.1	-26.0	0.81	1.71	94.56	2.92	19.30	0.31	1.69
JB-22	1	0-3	-19.2	-	-22.2	-26.0	0.13	1.03	92.87	5.97	6.50	0.23	2.12
	2	3-5	-22.2	-	-24.2		3.58	5.52	86.96	3.94	18.80	0.39	1.36
	3	5-6	-24.2	-	-25.2		2.63	5.13	84.45	7.79	18.80	0.41	1.29
	4	6-13	-25.2	-	-32.2		0.54	1.66	94.79	3.01	7.70	0.34	1.56
JB-23	1	0-6.5	-17.7	-	-24.2	-26.0	0.00	0.19	98.52	1.29	6.20	0.25	2.00
	2	6.5-8.3	-24.2	-	-26.0		0.60	2.55	91.05	5.80	13.80	0.26	1.94
						average	**2.11**	**4.51**	**88.44**	**4.94**	**13.14**	**0.36**	**1.54**
						weighted average	**1.62**	**3.88**	**89.77**	**4.74**	**12.50**	**0.33**	**1.60**

Note: Weighted average for Jay Bird Shoals is calculated based on sample heights down to permitted dredge elevation

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

BORROW AREA VIBRACORE SUMMARY TABLE

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

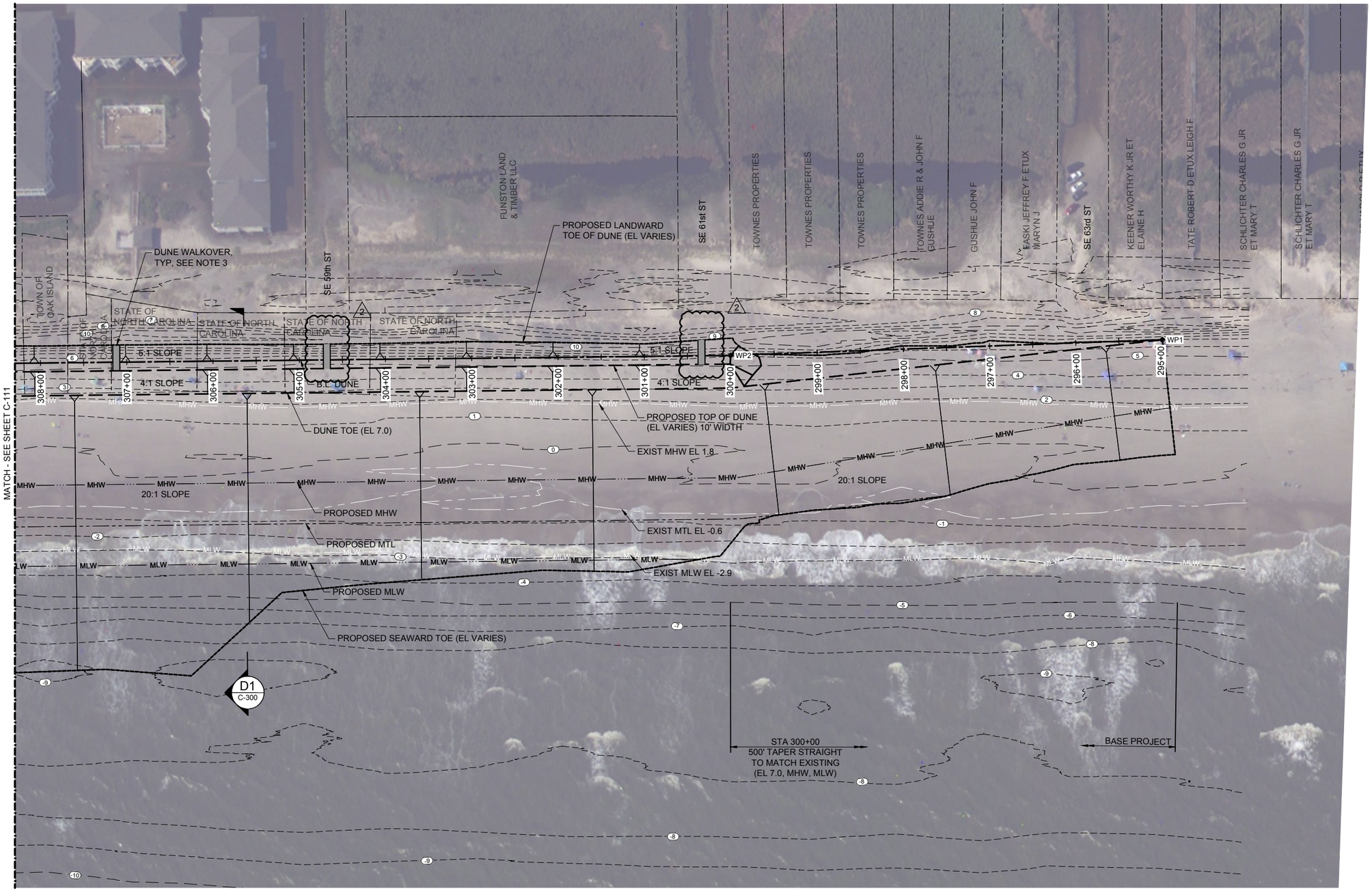
SEAL

Sheet Reference No.

C-106

INDEX: 11 OF 42

File: Q:\R4\10128-01\0900_CAD_Active_10128\01 Sheetset\1012801-C-106 ; Plotted: 3/3/2021 11:25 AM by MORGAN, NEKOL ; Saved: 10/18/2019 10:45 AM by BFORD



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
2	BEACH ACCESSES ADDED	03/21	JDM
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 1 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 2
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

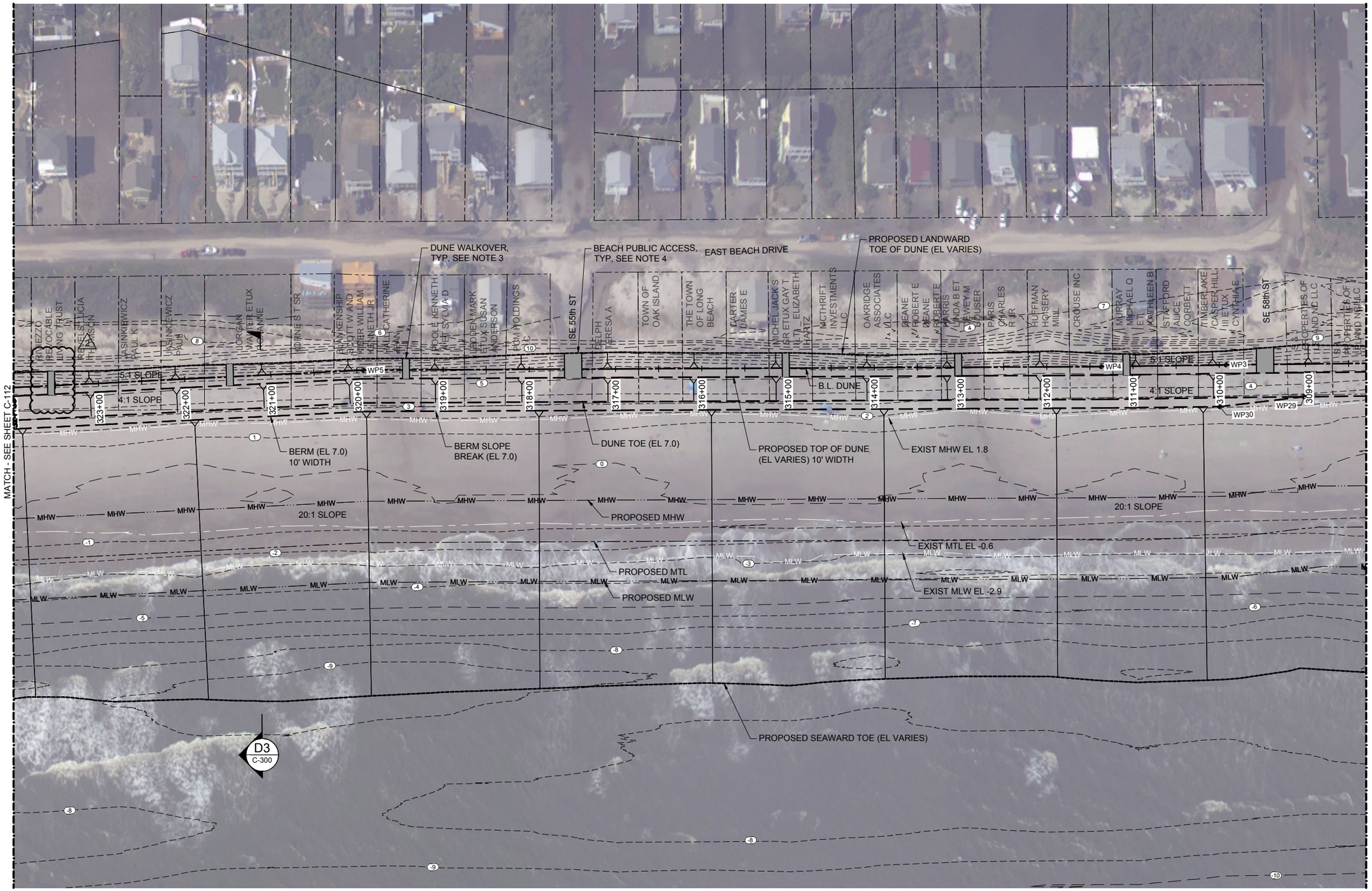
SEAL

Sheet Reference No.

C-110

INDEX: 12 OF 42

File: Q:\RAI\10128-01\0500_CAD_Active_10128\01 SheetSet\10128\01-C-110 , Plotted: 3/30/2021 12:16 PM by MORGAN, NEKOL , Saved: 3/30/2021 11:58 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

SCALE: 1"=60'

Mark	Description	Date	Appr.
2	BEACH ACCESSES ADDED	03/21	JDM
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 2 OF 14

Designed by: KEF
Dwn by: VNM
Cad by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 2
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

maffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

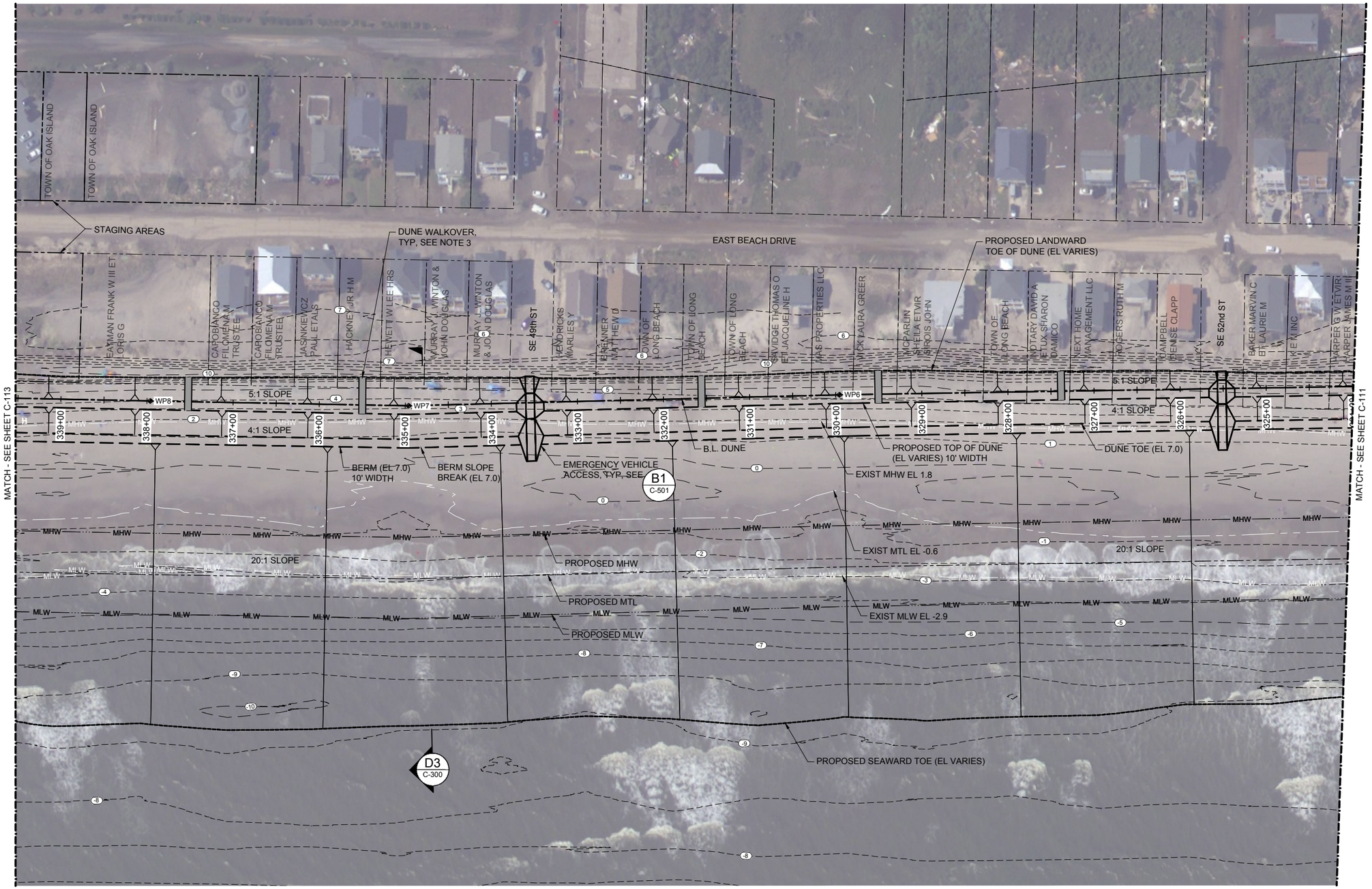
SEAL

Sheet Reference No.

C-111

INDEX: 13 OF 42

File: Q:\RA\10128-01\0802_CAD_Active_1012801 SheetSet\1012801-C-111 . Plotted: 3/30/2021 12:16 PM by MORGAN, NEKOL . Saved: 3/30/2021 12:01 PM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 3 OF 14

Designed by: KEF
Dwn by: VNM
Cad by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

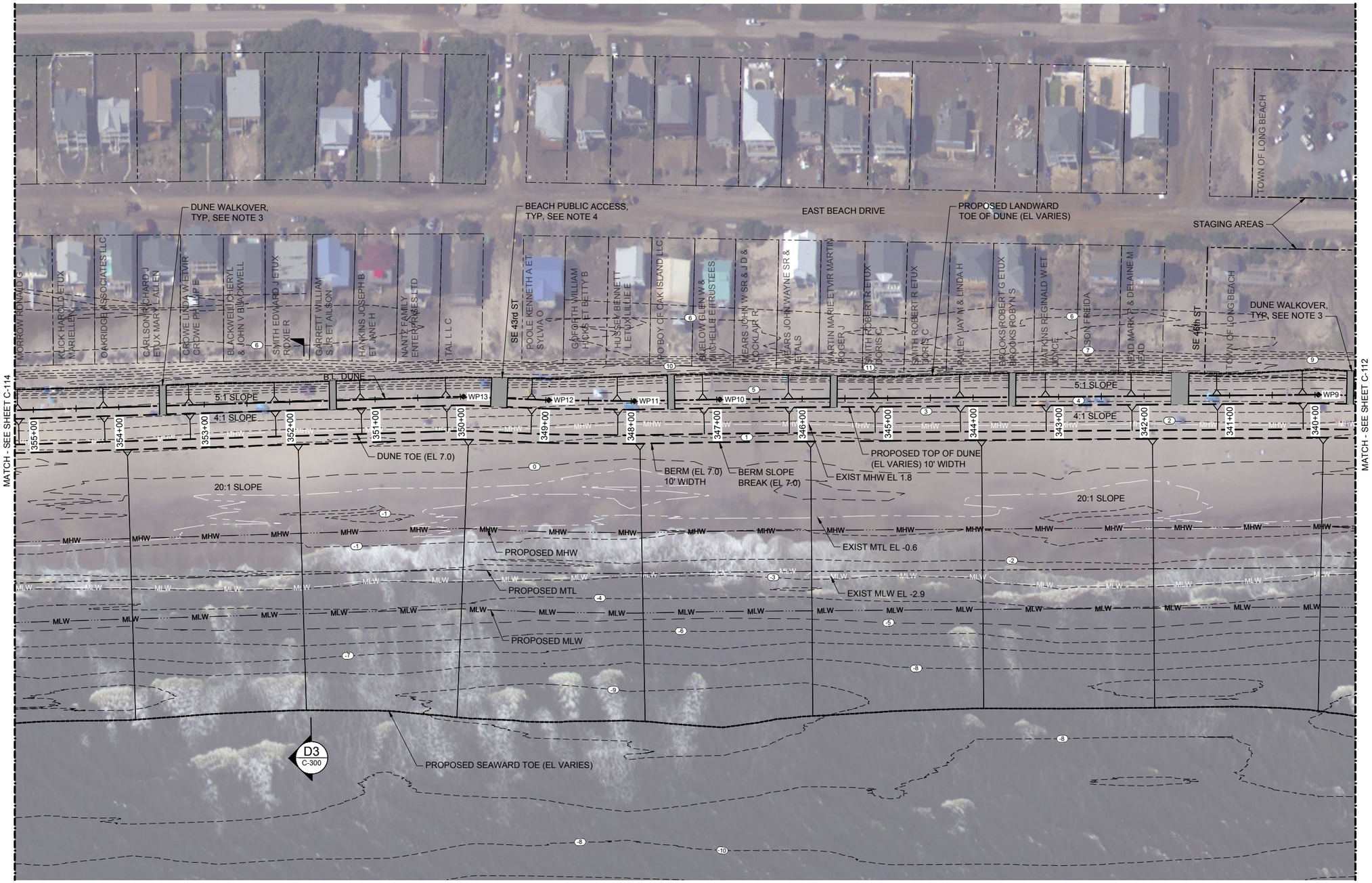
SEAL

Sheet Reference No.

C-112

INDEX: 14 OF 42

File: Q:\RA\10128-01\0800_CAD_Active_1012801 SheetSet\1012801-C-112 . Plotted: 3/3/2021 11:26 AM by MORGAN, NEKOL . Saved: 3/2/2021 8:17 AM by MORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 4 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

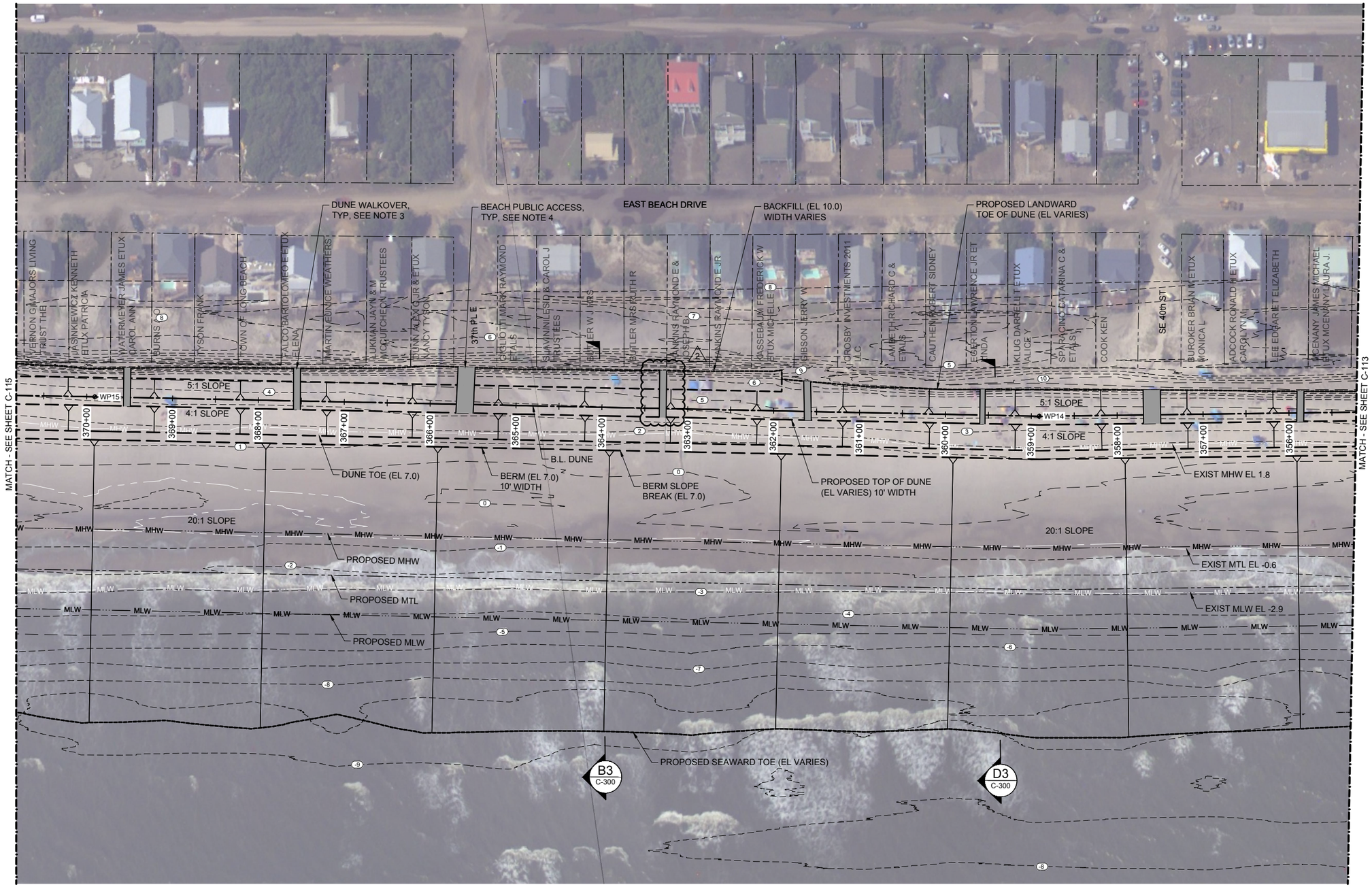
SEAL

Sheet Reference No.

C-113

INDEX: 15 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_10128\01 SheetSet\10128\01-C-113 . Plotted: 3/3/2021 11:27 AM by MORGAN, NEKOL . Saved: 3/2/2021 8:16 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
2	BEACH ACCESSES ADDED	03/21	JDM
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 5 OF 14

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 2
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

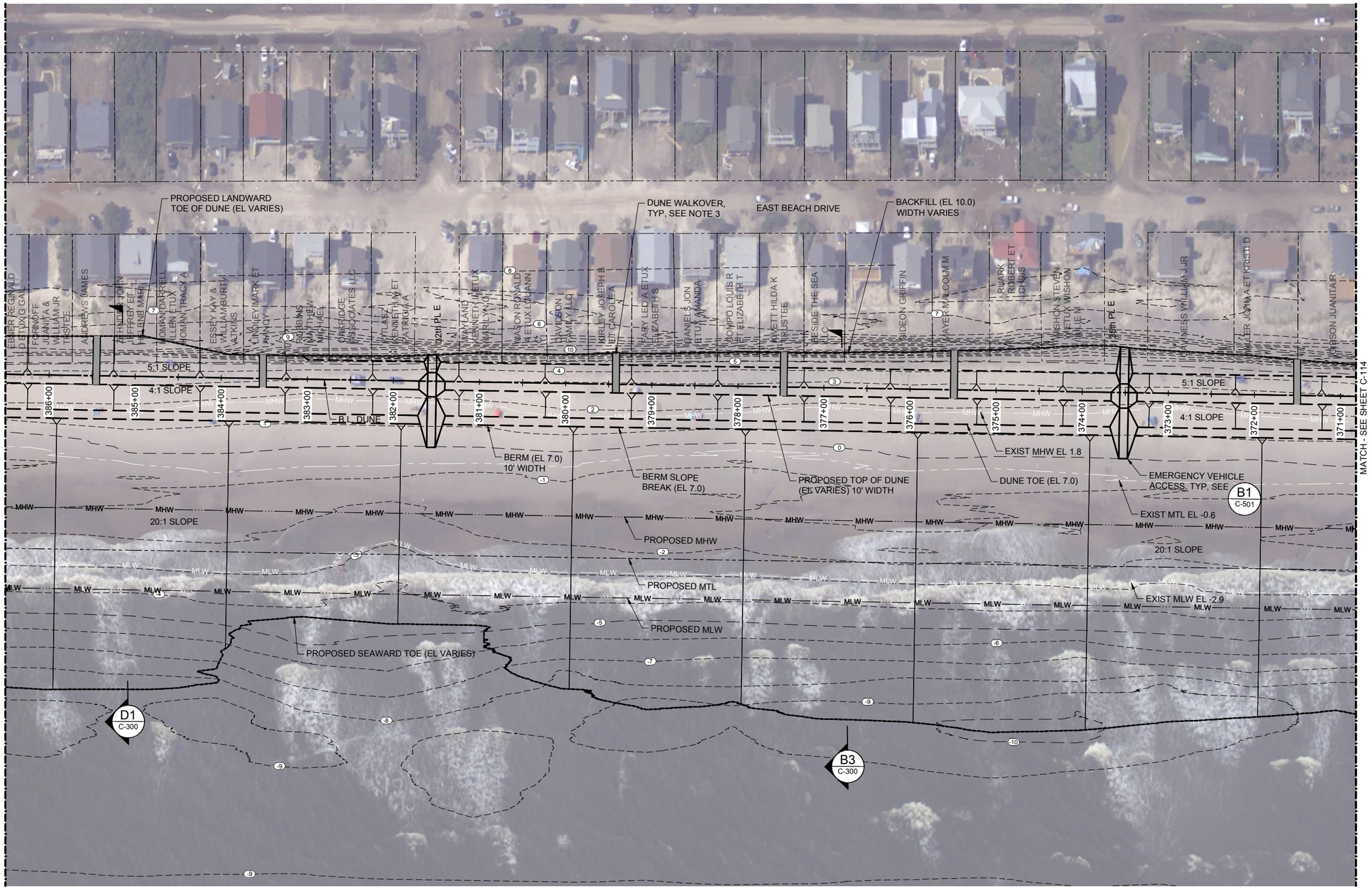
SEAL

Sheet Reference No.

C-114

INDEX: 16 OF 42

File: Q:\R4\10128-01\0600_CAD_Active_1012801\SheetSet\1012801-C-114 ; Plotted: 3/30/2021 12:17 PM by MORGAN, NEKOL ; Saved: 3/30/2021 12:04 PM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 6 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

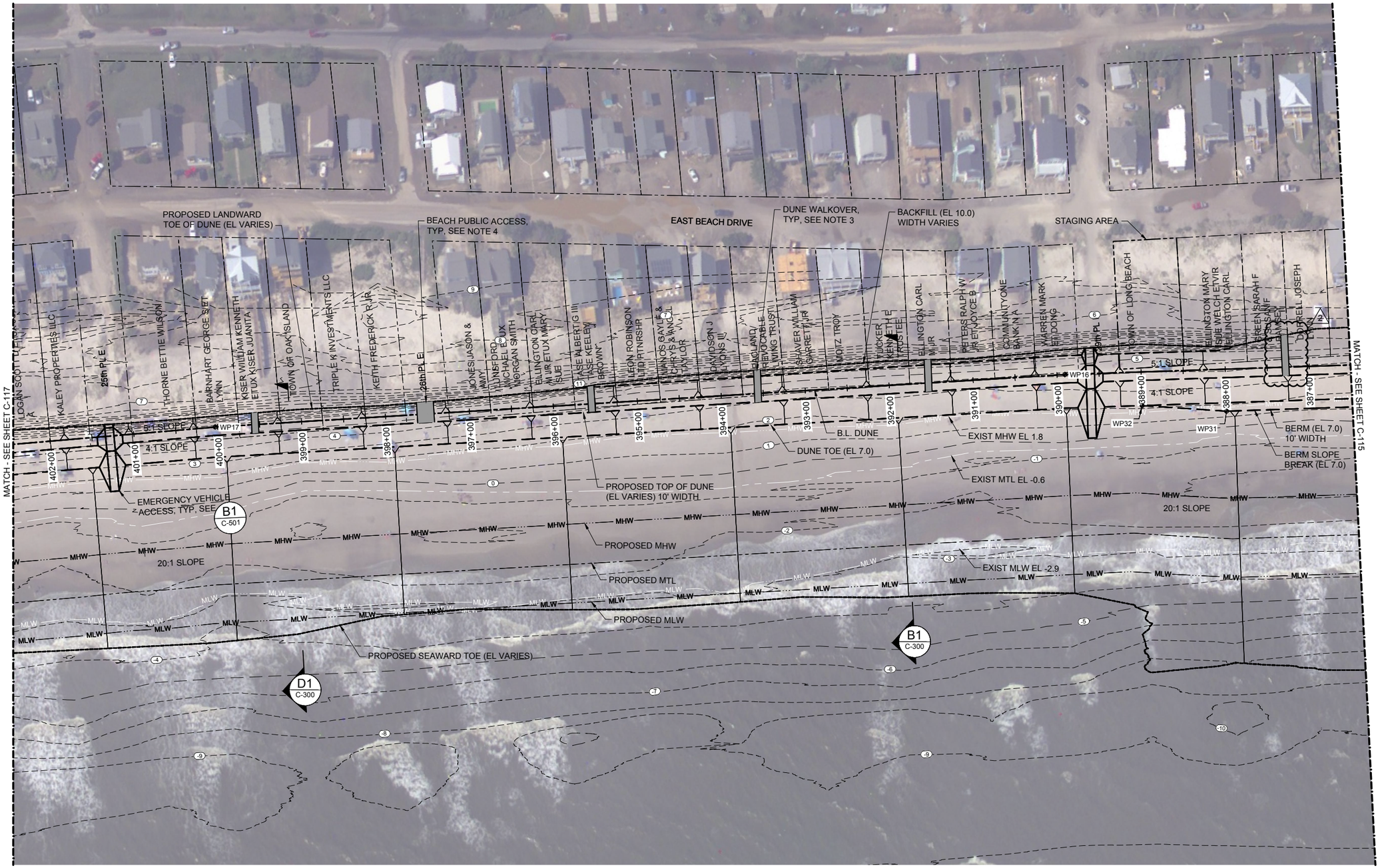
SEAL

Sheet Reference No.

C-115

INDEX: 17 OF 42

File: Q:\RA\10128-01\0800_CAD_Active_1012801\SheetSet\1012801-C-115 ; Plotted: 3/3/2021 11:28 AM by MMORGAN, NEKOL ; Saved: 3/3/2021 9:28 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

SCALE: 1"=60'

Mark	Description	Date	Appr.
2	BEACH ACCESSES ADDED	03/21	JDM
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 7 OF 14

Designed by: KEF
Dwn by: VNM
Cad by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 2
M&N Project No. 101280-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

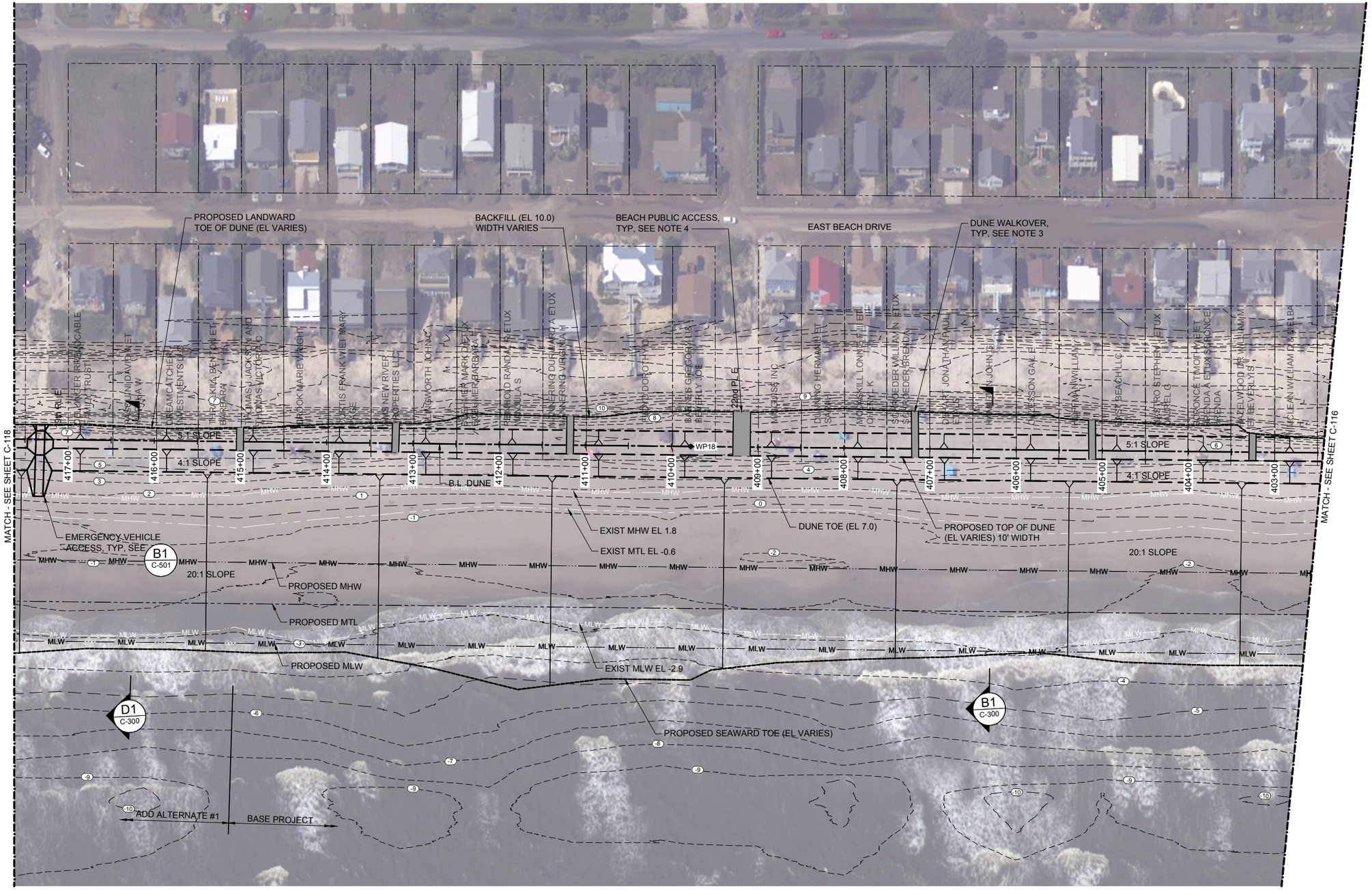
SEAL

Sheet Reference No.

C-116

INDEX: 18 OF 42

File: Q:\RA\10128-01\0800_CAD_Active_1012801\SheetSet\1012801-C-116 ; Plotted: 3/30/2021 12:17 PM by MORGAN, NEKOL ; Saved: 3/30/2021 12:11 PM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

SCALE: 1"=60'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

SITE PLAN 8 OF 14

Designed by: KEF
Date: 03/03/2021
Rev: 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Reviewed by: JDM
Drawing code:
Submitted by: MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (D SHEET)

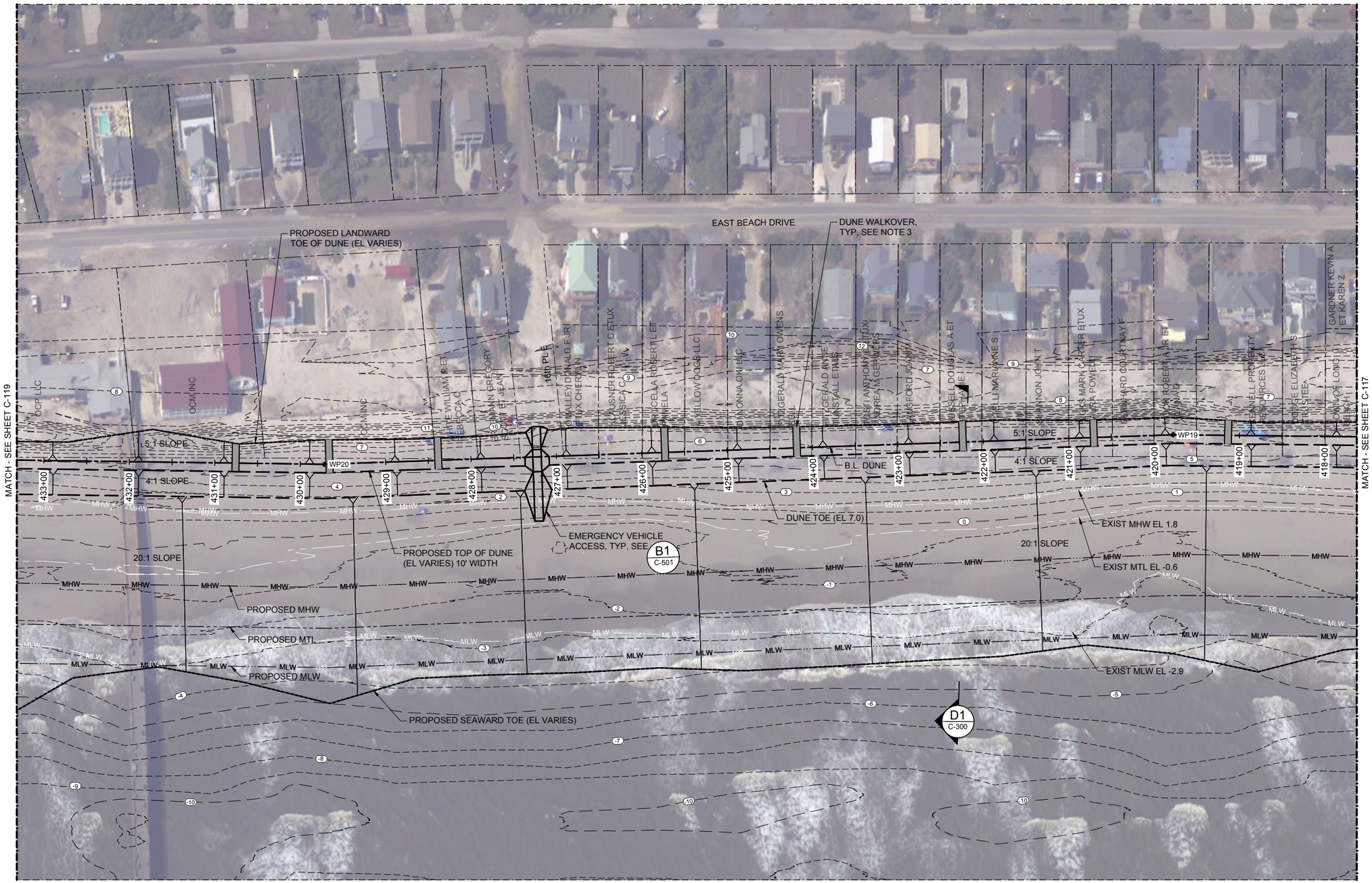
maffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
C-117
INDEX: 19 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_1012801 Sheets\Sel\1012801-C-117. Plotted: 3/3/2021 11:28 AM by MORGAN, NEKOL. Saved: 3/2/2021 8:23 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 9 OF 14

Date: 03/03/2021
Rev.: 1
M&N Project No.: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

Designed by: KEF
Dwn by: VNM
Cad by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
maffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

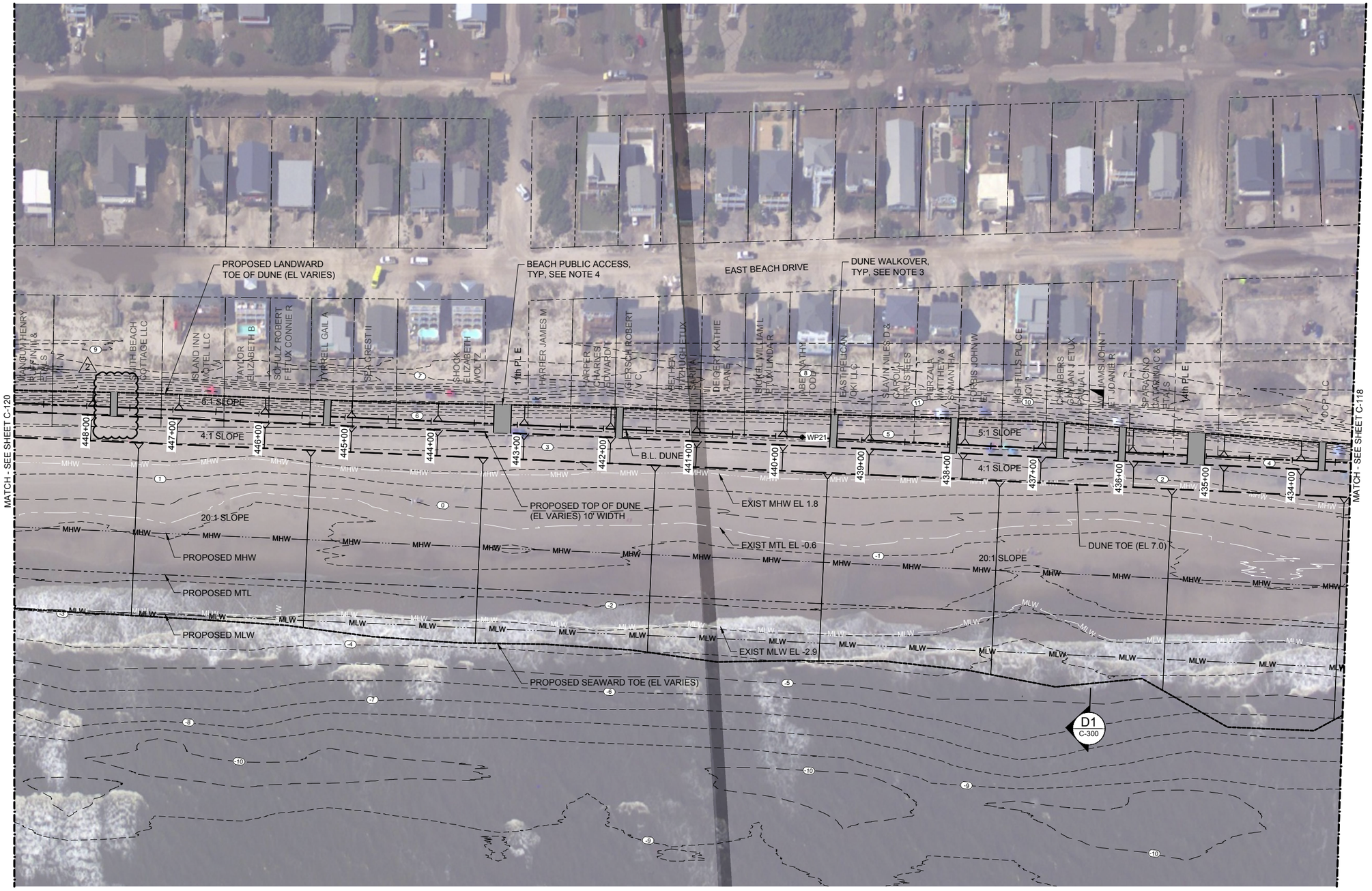
SEAL

Sheet Reference No.

C-118

INDEX: 20 OF 42

File: Q:\RA\10128-01\0800_CAD_Active_1012801 SheetSet\1012801-C-118 . Plotted: 3/3/2021 11:29 AM by MORGAN, NEKOL . Saved: 3/2/2021 8:24 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
2	BEACH ACCESSES ADDED	03/21	JDM
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 10 OF 14

Date: 03/03/2021 | Rev. 2

M&N Project No. 10128-01

Drawing code:

Drawing Scale:

Plot scale: 1:1 (D SHEET)

Designed by: KEF | Dwn by: VNM | Ckd by: SRM | Reviewed by: JDM | Submitted by: MOFFATT & NICHOL

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

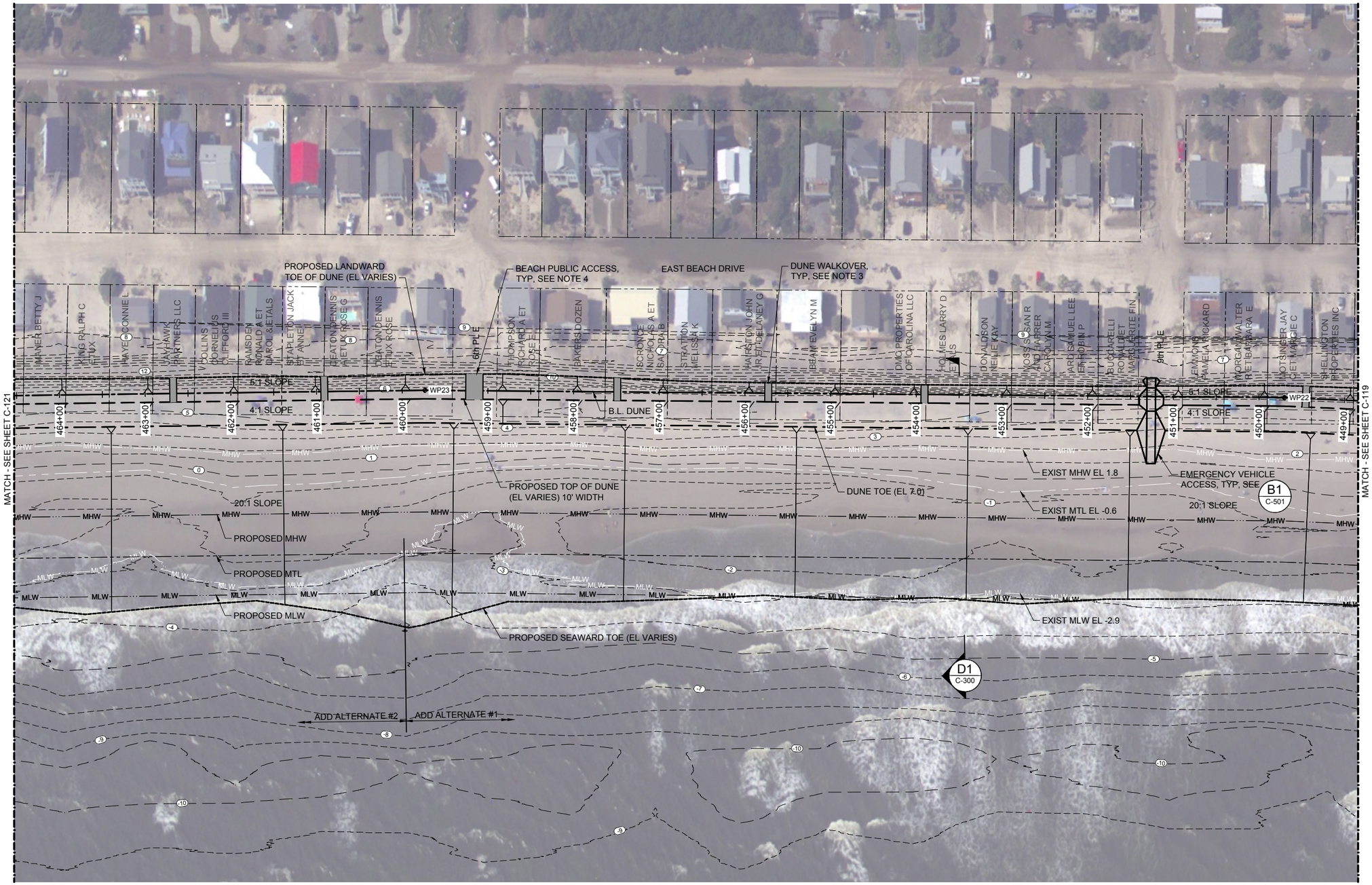
SEAL

Sheet Reference No.

C-119

INDEX: 21 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_1012801 Sheets\Set\1012801-C-119 ; Plotted: 3/30/2021 12:18 PM by MORGAN, NEKOL ; Saved: 3/30/2021 12:15 PM by NMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

SITE PLAN 11 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 919-781-4626

moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

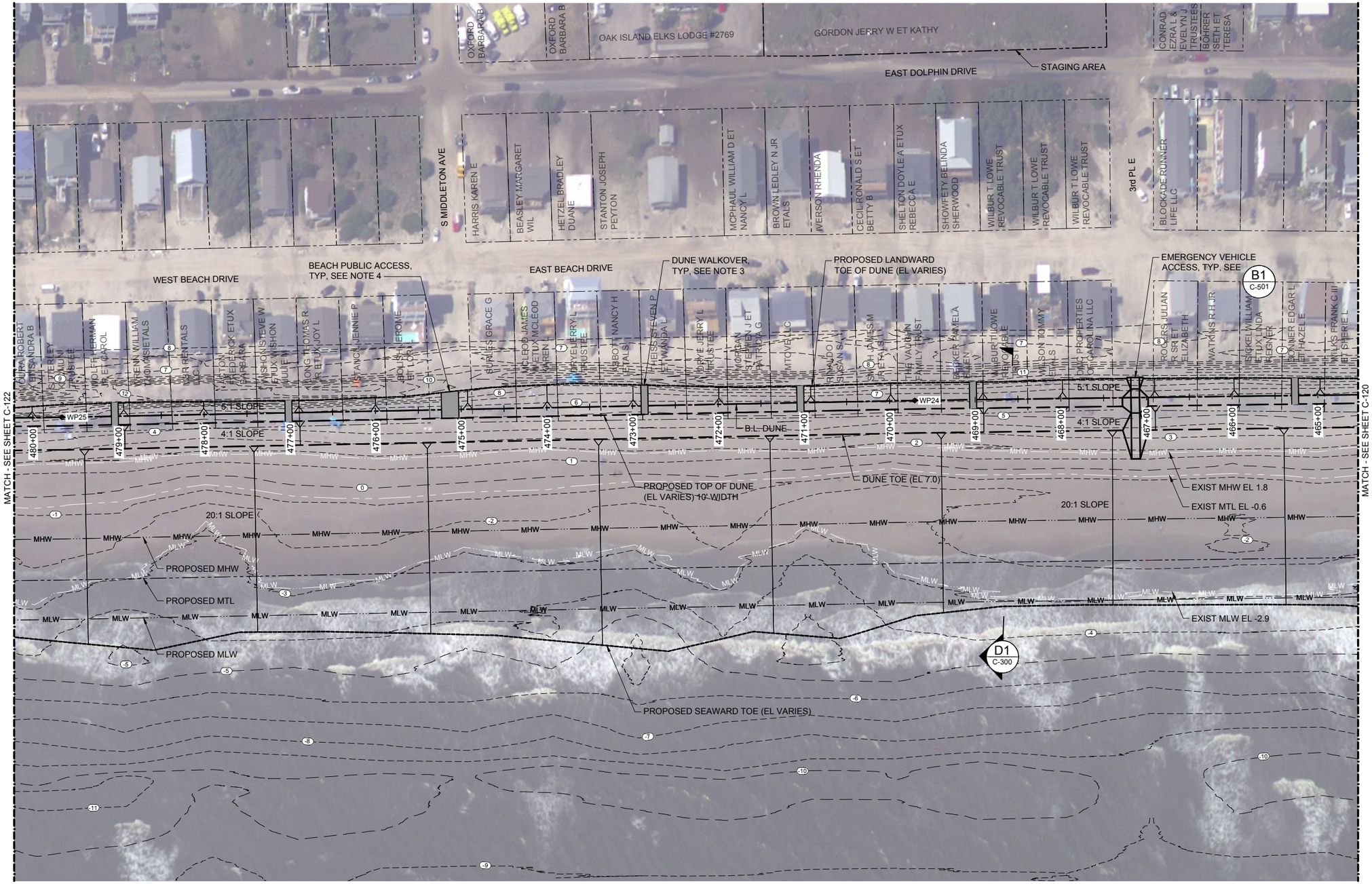
SEAL

Sheet Reference No.

C-120

INDEX: 22 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set\10128\01-C-120 , Plotted: 3/3/2021 11:30 AM by MORGAN, NEKOL , Saved: 3/2/2021 8:27 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND
RENOURISHMENT PROJECT 2020/2021

SITE PLAN 12 OF 14

Designed by: KEF
Date: 03/03/2021
Rev: 1
Dwn by: VNM
Cad by: SRM
M&M Project No. 10128-01
Reviewed by: JDM
Drawing code:
Submitted by: MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

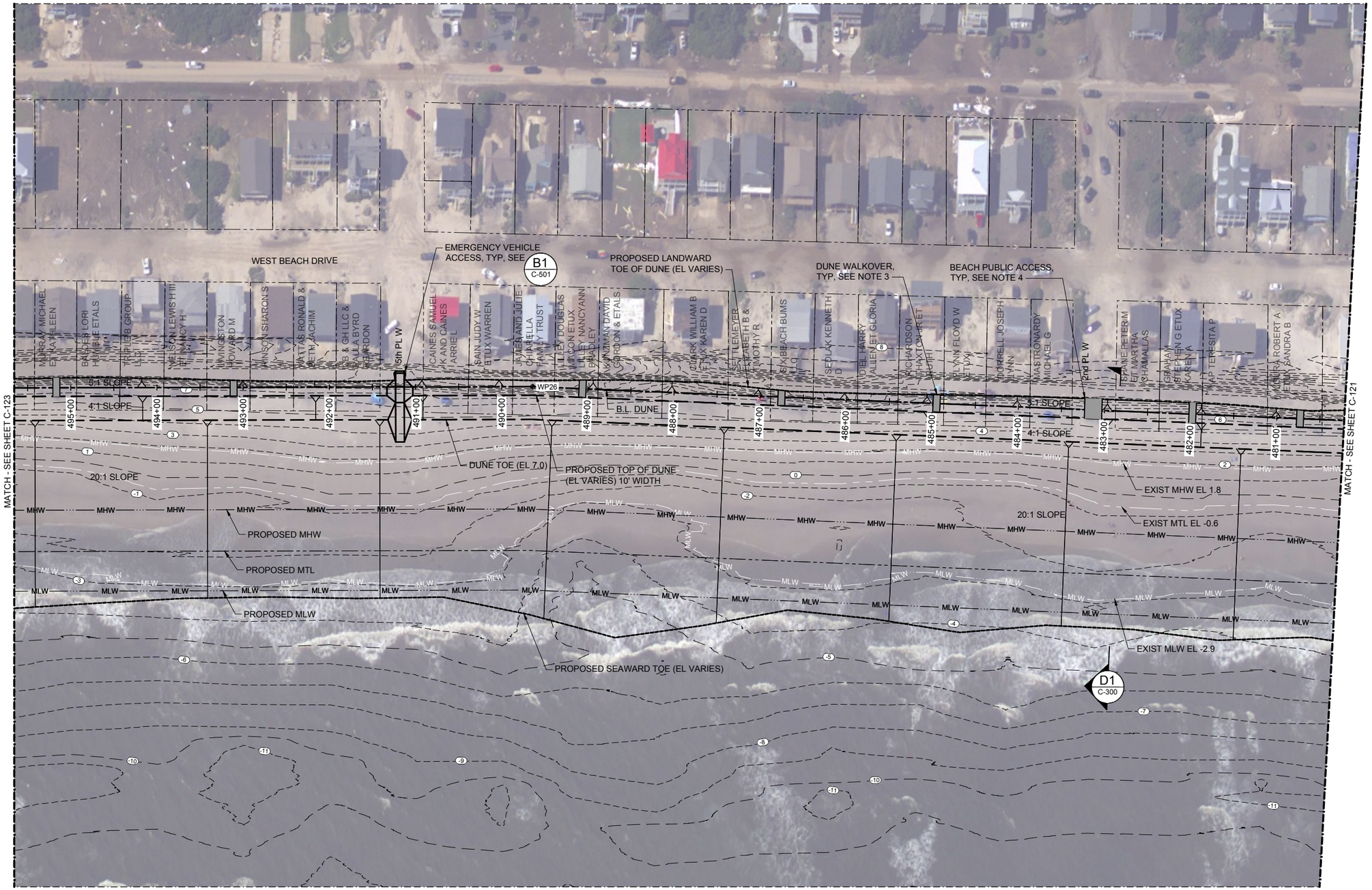
SEAL

Sheet Reference No.

C-121

INDEX: 23 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_10128\01 SheetSet\10128\01-C-121 ; Plotted: 3/3/2021 11:31 AM by MORGAN, NEKOL ; Saved: 3/2/2021 8:28 AM by MORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Marks	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 13 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Cad by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (D SHEET)

maffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

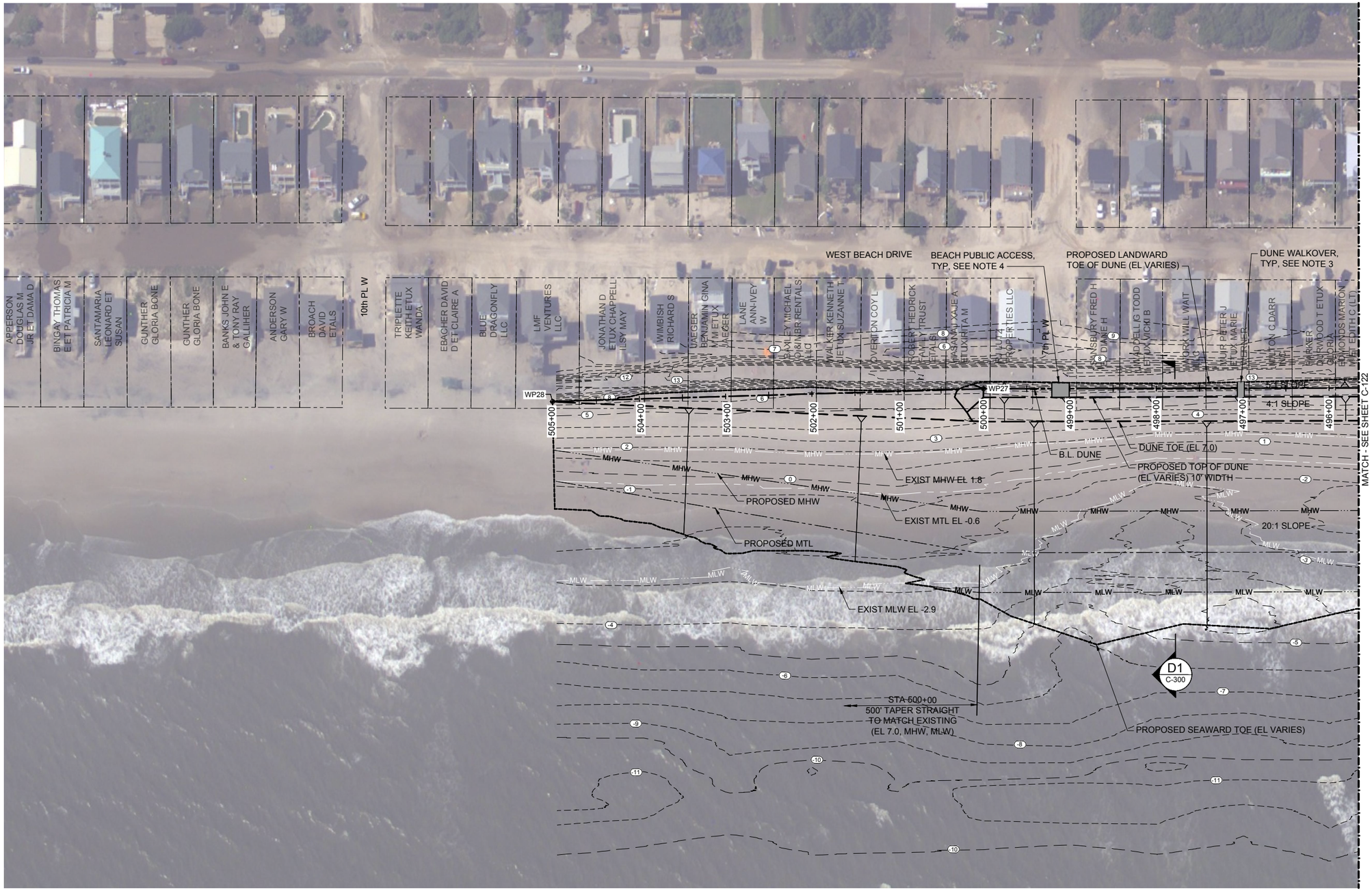
SEAL

Sheet Reference No.

C-122

INDEX: 24 OF 42

File: Q:\RA\10128-01\0800_CAD_Active_1012801 SheetSet\1012801-C-122.; Plotted: 3/3/2021 11:31 AM by MORGAN, NEKOL; Saved: 3/2/2021 8:29 AM by MMORGAN



NOTES:

1. SEE SHEET C-601 FOR CONSTRUCTION BASELINE WORK POINT TABLE.
2. SEE SHEETS C-301 THRU C-314 FOR CROSS SECTIONS.
3. AT LOCATIONS SHOWN ON PLANS AS "DUNE WALKOVER", A 5 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.
4. AT LOCATIONS SHOWN ON PLANS AS "BEACH PUBLIC ACCESS", A 10 FOOT GAP IN PLANTINGS SHALL BE PROVIDED AND A POST AND ROPE FENCE SHALL BE PLACED ON BOTH SIDES OF GAP, SEE TECHNICAL SPECIFICATIONS.

N

60' 0' 60' 120'

SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

SITE PLAN 14 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

maffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

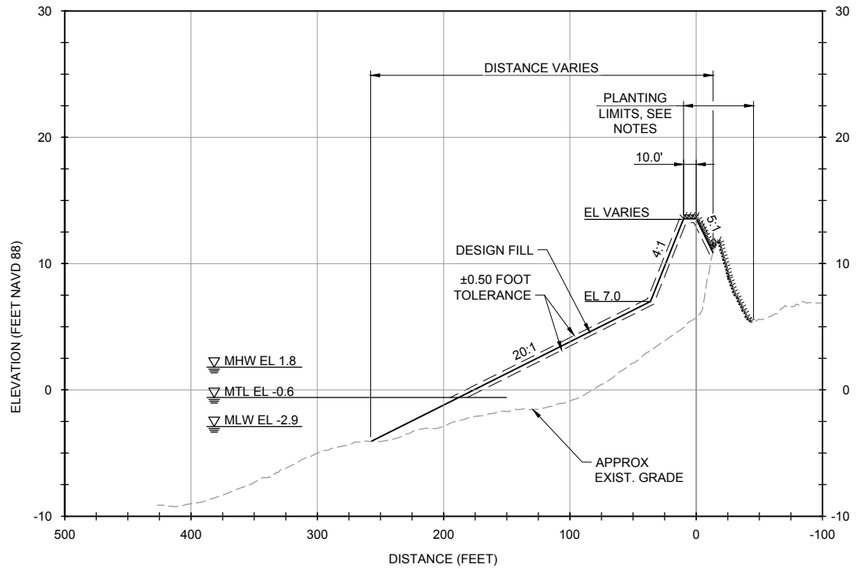
SEAL

Sheet Reference No.

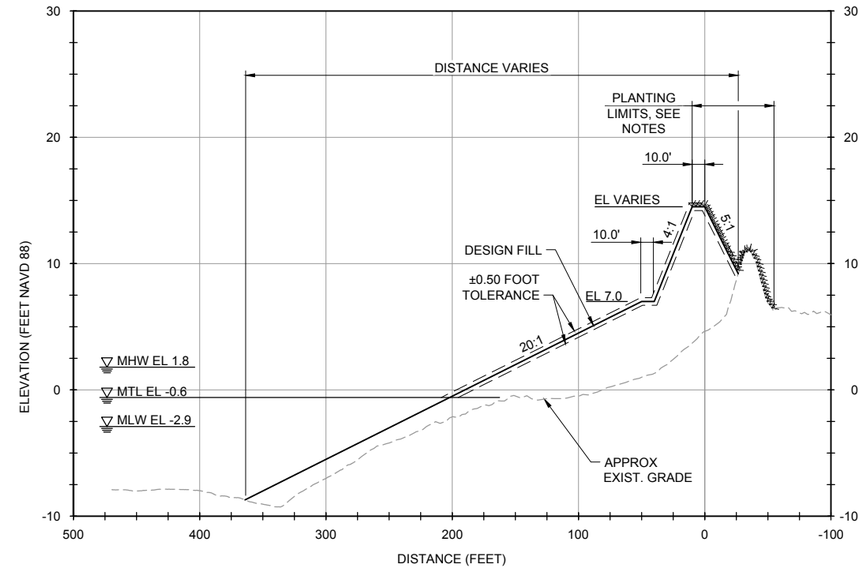
C-123

INDEX: 25 OF 42

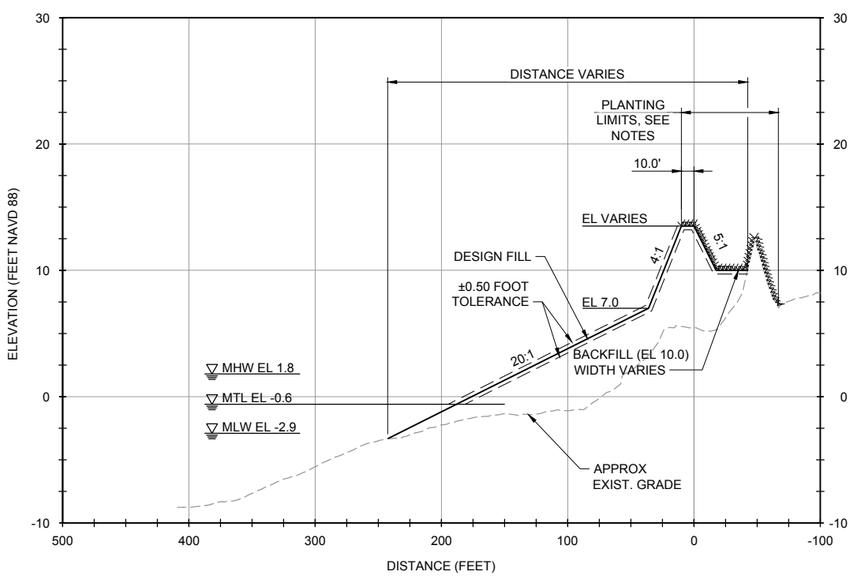
File: Q:\RA\10128-01\0800_CAD_Active_1012801 SheetSet\1012801-C-123 ; Plotted: 3/3/2021 11:38 AM by MORGAN, NEKOL ; Saved: 3/2/2021 8:40 AM by MMORGAN



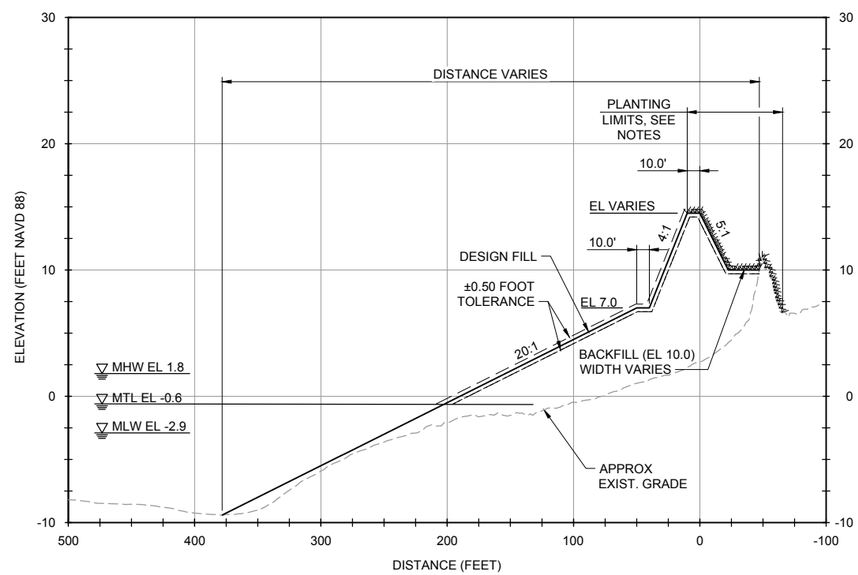
D1 (C-110) **TYPICAL SECTION**
SCALE: AS NOTED
C-115 THRU C-123



D3 (C-111) **TYPICAL SECTION**
SCALE: AS NOTED
C-112 THRU C-114



B1 (C-116) **TYPICAL SECTION**
SCALE: AS NOTED
C-117



B3 (C-114) **TYPICAL SECTION**
SCALE: AS NOTED
C-115

NOTES:

1. PLANTING SHALL OCCUR ON DUNE CREST, BACK SLOPE, BACKFILL OF CONSTRUCTED DUNE, AND UP THE LANDWARD TOE OF EXISTING DUNE.
2. SEE TECHNICAL SPECIFICATIONS FOR PLANTING, FERTILIZING, AND WATERING REQUIREMENTS.
3. WHERE THE EXISTING DUNE IS HIGHER THAN ELEVATION +10.0 FT NAVD88 THE CONTRACTOR MAY LEVEL THE CREST OF THE EXISTING DUNE TO ELEVATION +10.0 FT NAVD88.

6' 0' 6' 12'
VERTICAL SCALE: 1"=6'

60' 0' 60' 120'
HORIZONTAL SCALE: 1"=60'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

TYPICAL CROSS SECTIONS

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

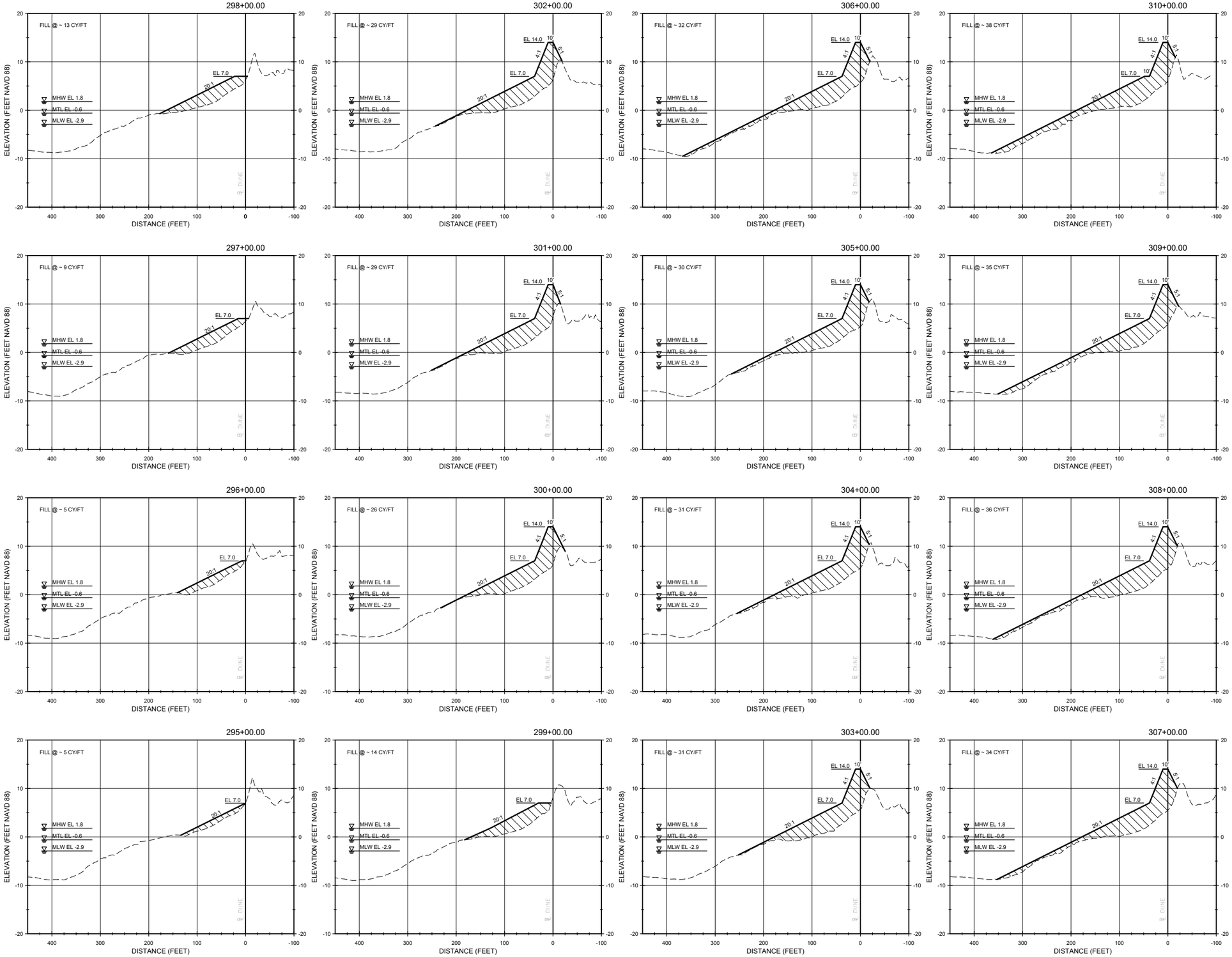
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
C-300
INDEX: 26 OF 42

File: Q:\RA\10128-01\0802_CAD_Active_1012801 SheetSet\1012801-C-300 . Plotted: 3/3/2021 11:38 AM by MORGAN, NEKOL . Saved: 3/2/2021 6:50 PM by MMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- - - - - APPROXIMATE EXISTING GROUND

——— PROPOSED RENOURISHMENT

LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 1 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

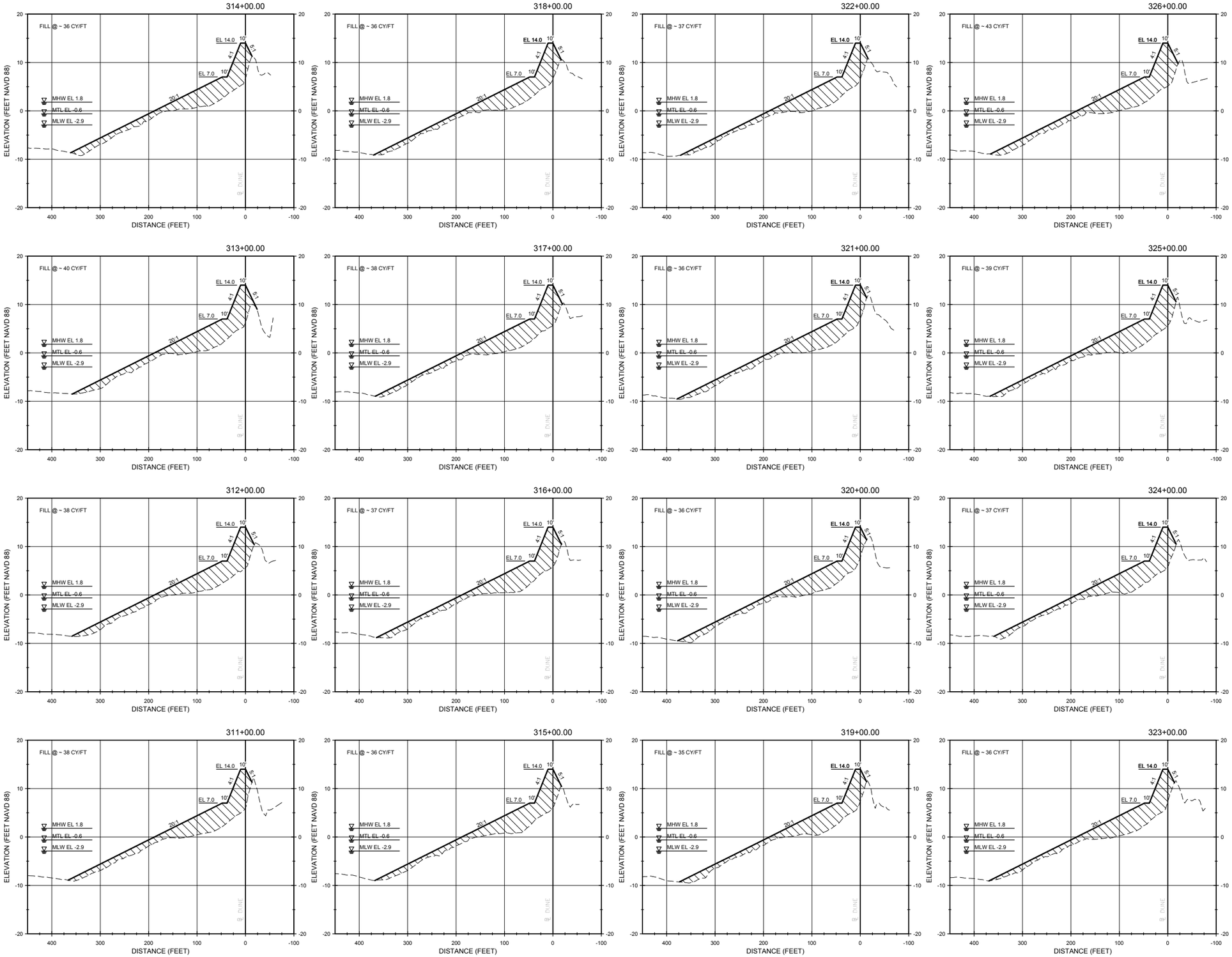
NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

Sheet Reference No.

C-301

INDEX: 27 OF 42

File: Q:\10\10128-01\0600_CAD_Active_10\12801\Sheetset\1012801-C-301 ; Plotted: 3/3/2021 11:38 AM by MORGAN, NEKOL ; Saved: 3/2/2021 8:59 AM by MMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 2 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

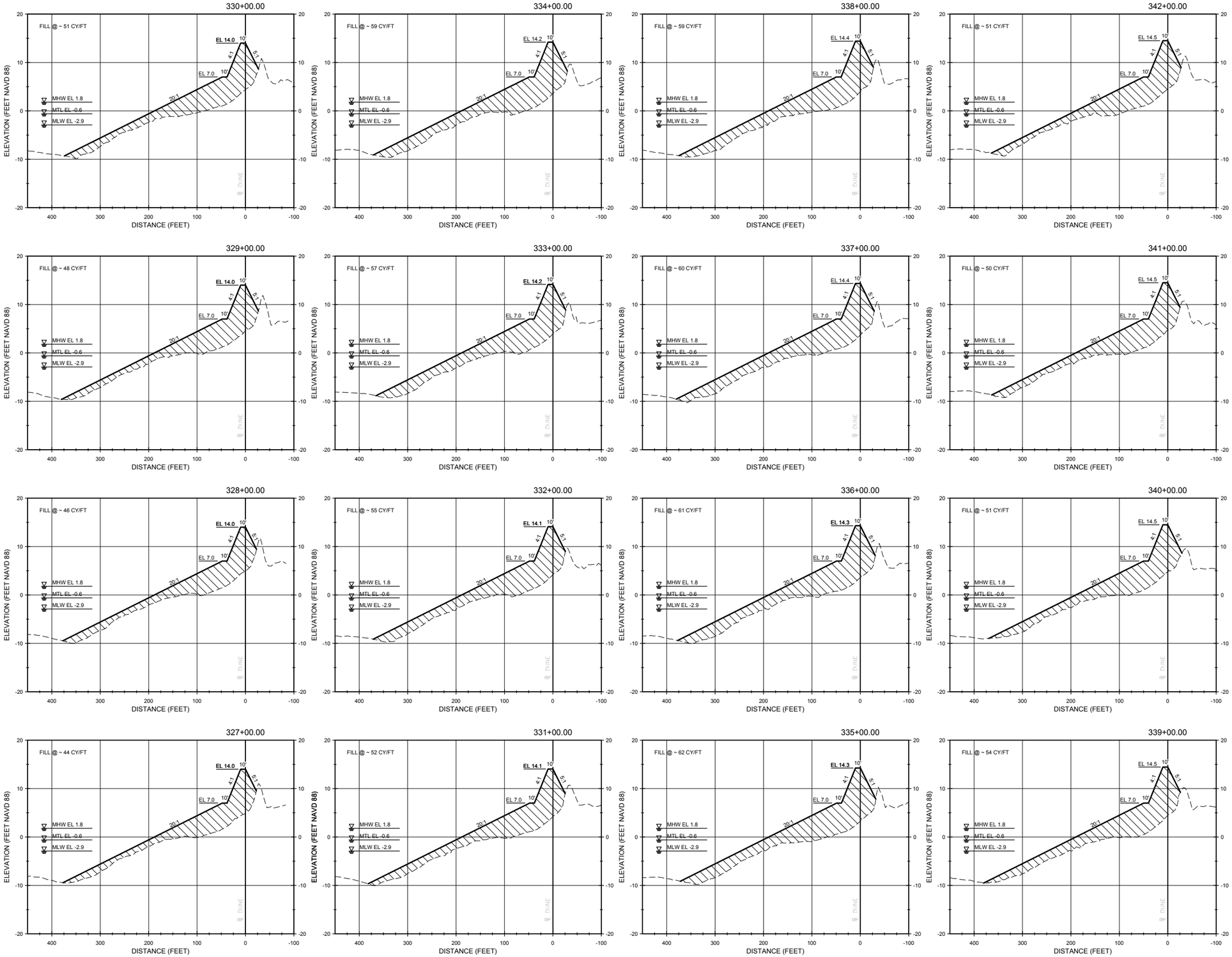
SEAL

Sheet Reference No.

C-302

INDEX: 28 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10\12801\Sheetset\1012801-C-302 ; Plotted: 3/3/2021 11:38 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:43 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 3 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

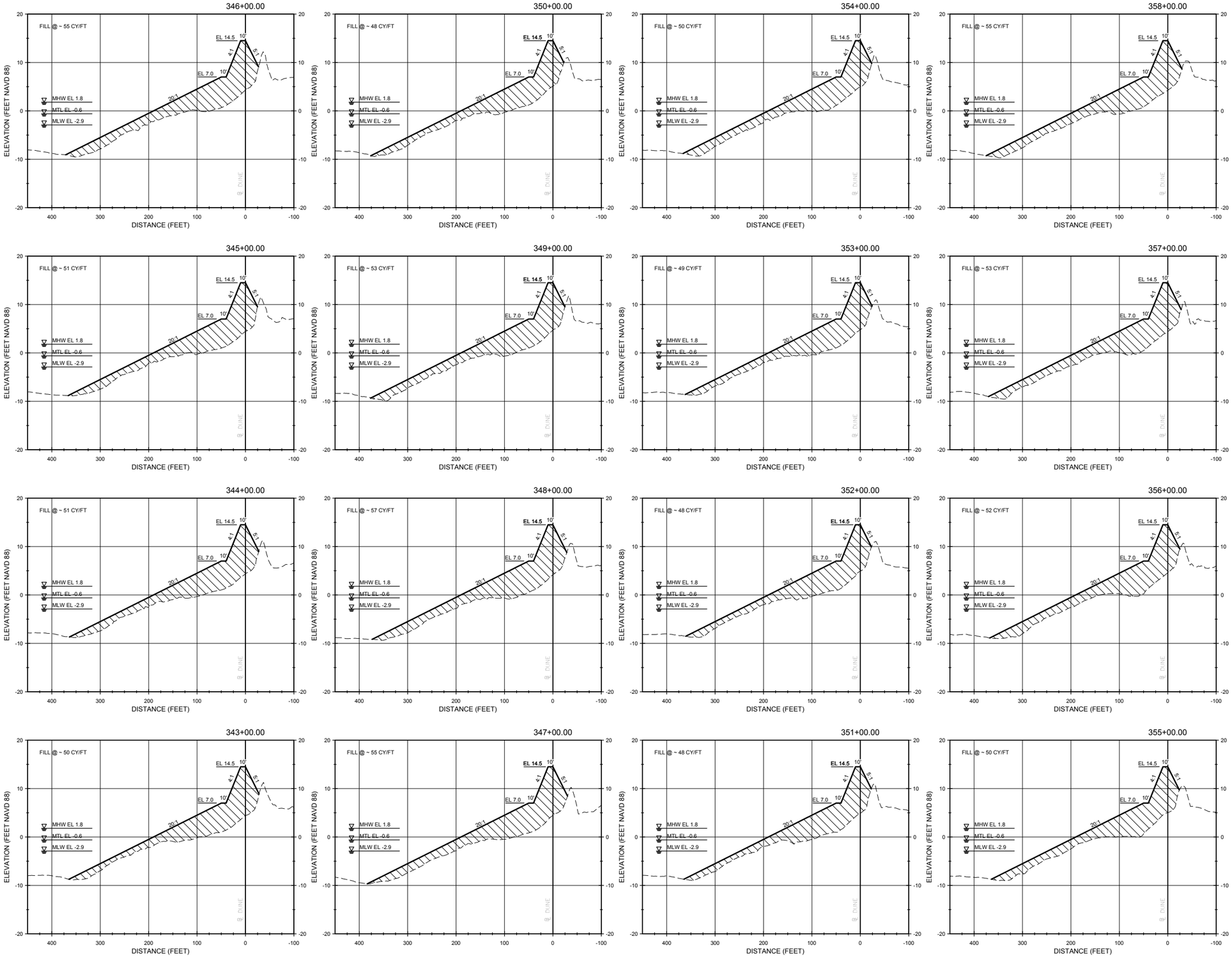
SEAL

Sheet Reference No.

C-303

INDEX: 29 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10\12801\Sheetset\1012801-C-303 , Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL , Saved: 2/19/2021 2:43 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 4 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Submitted by: MOFFATT & NICHOL

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

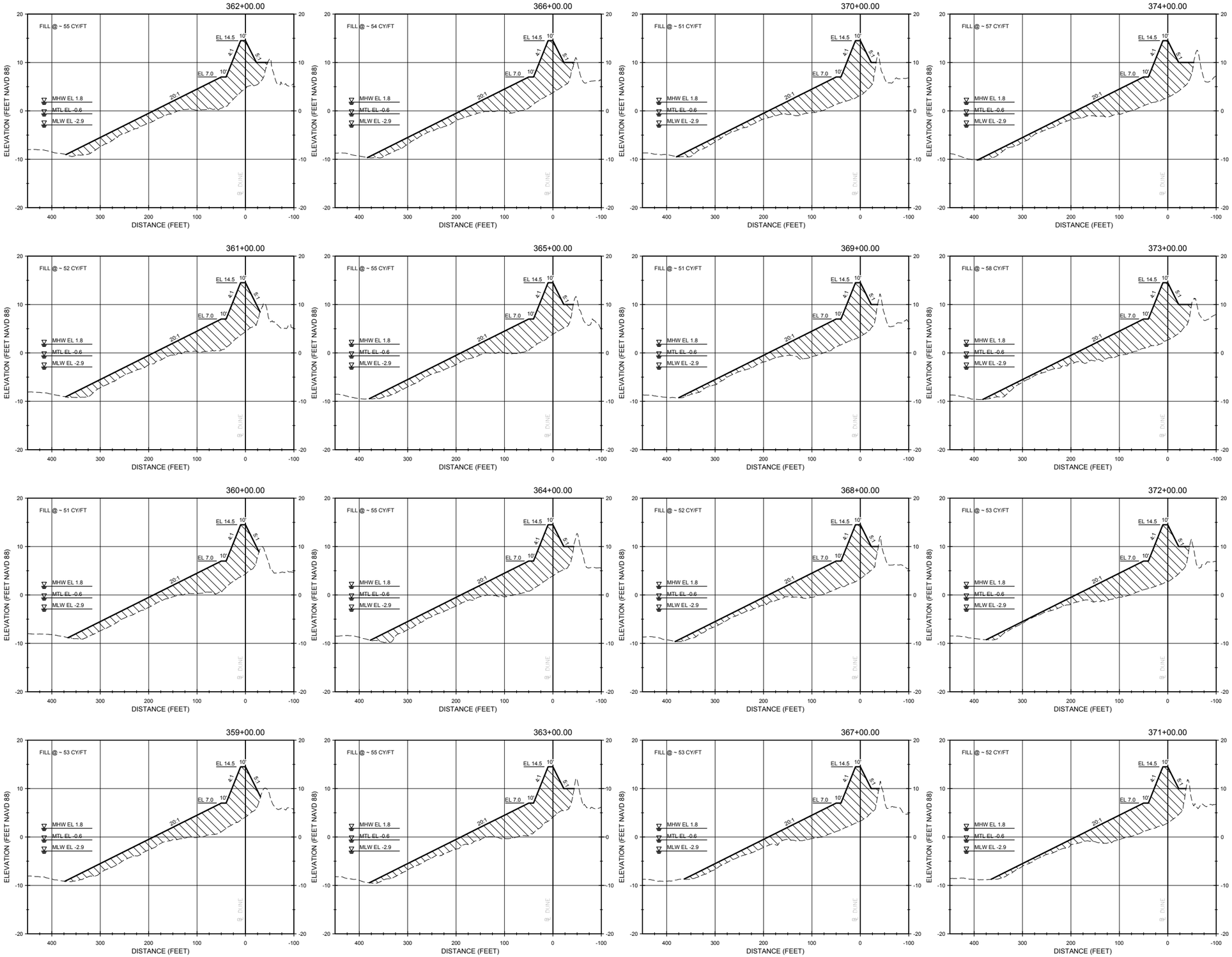
SEAL

Sheet Reference No.

C-304

INDEX: 30 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set\1012801-C-304 , Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL , Saved: 2/19/2021 2:43 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- - - - - APPROXIMATE EXISTING GROUND

——— PROPOSED RENOURISHMENT

LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

TOWN OF OAK ISLAND NORTH CAROLINA

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 5 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 JOHNNY D. MARTIN ENGINEER

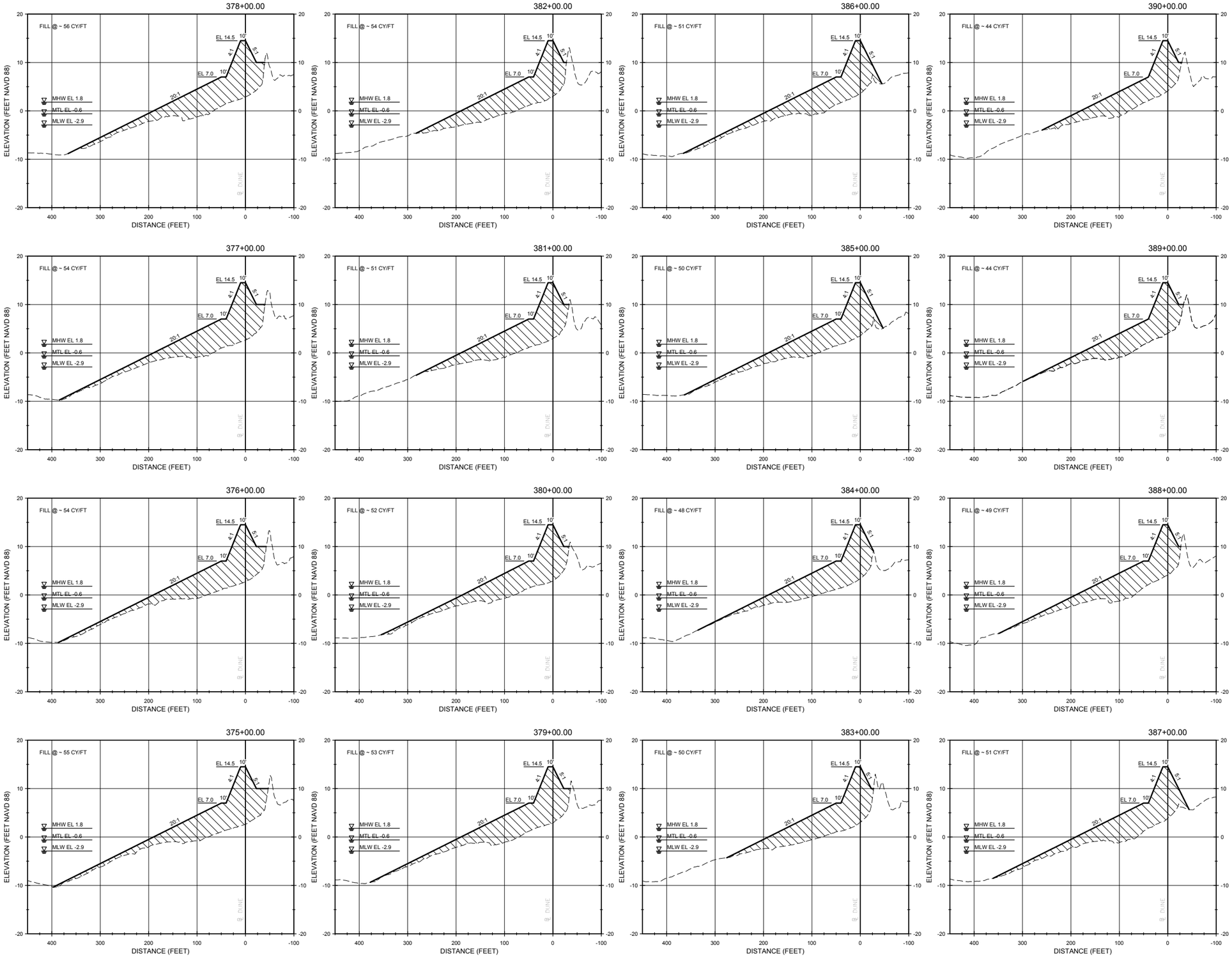
SEAL

Sheet Reference No.

C-305

INDEX: 31 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set1\01280T-C-305 ; Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:43 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 6 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

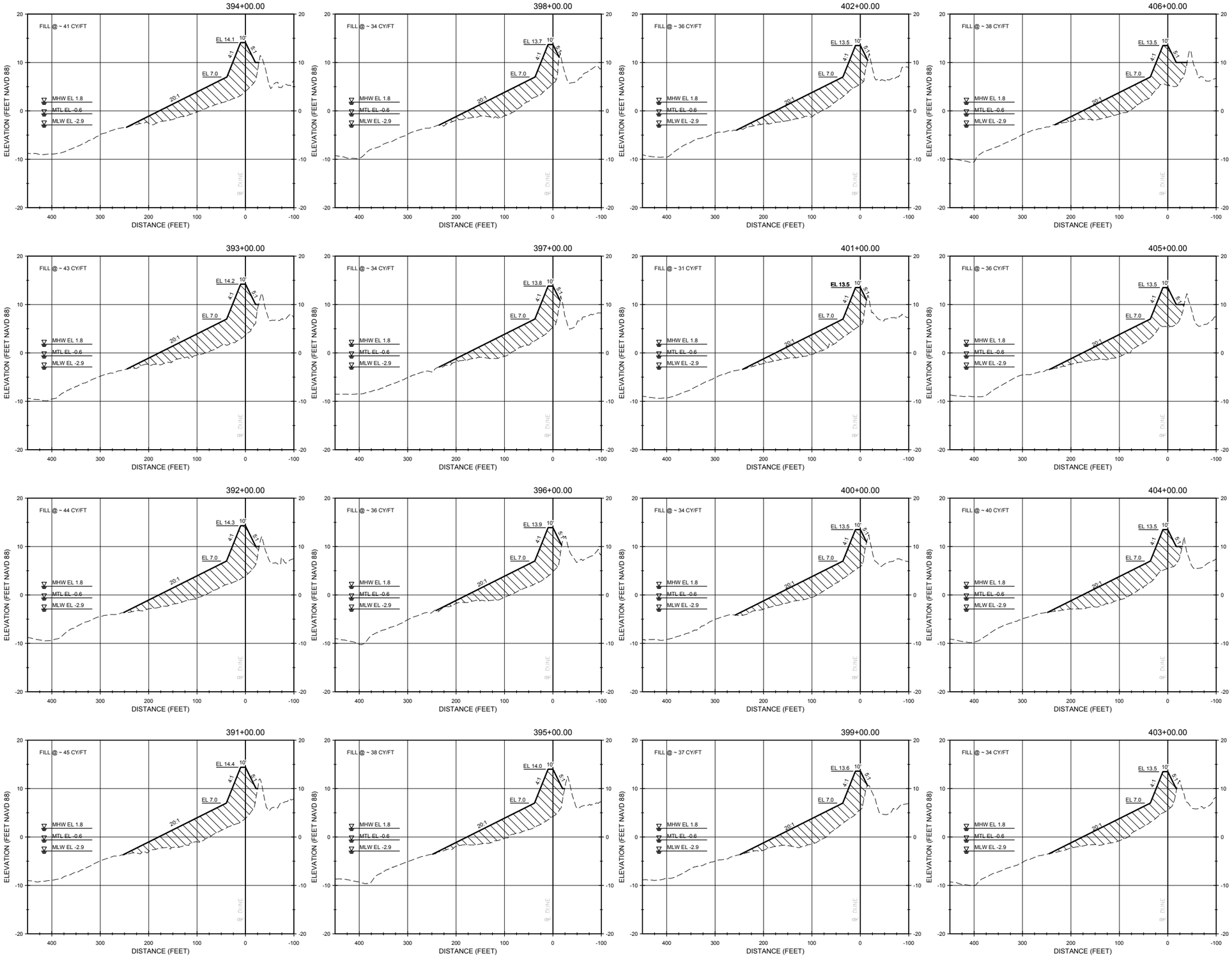
SEAL

Sheet Reference No.

C-306

INDEX: 32 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set\1012801-C-306 ; Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:43 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 7 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

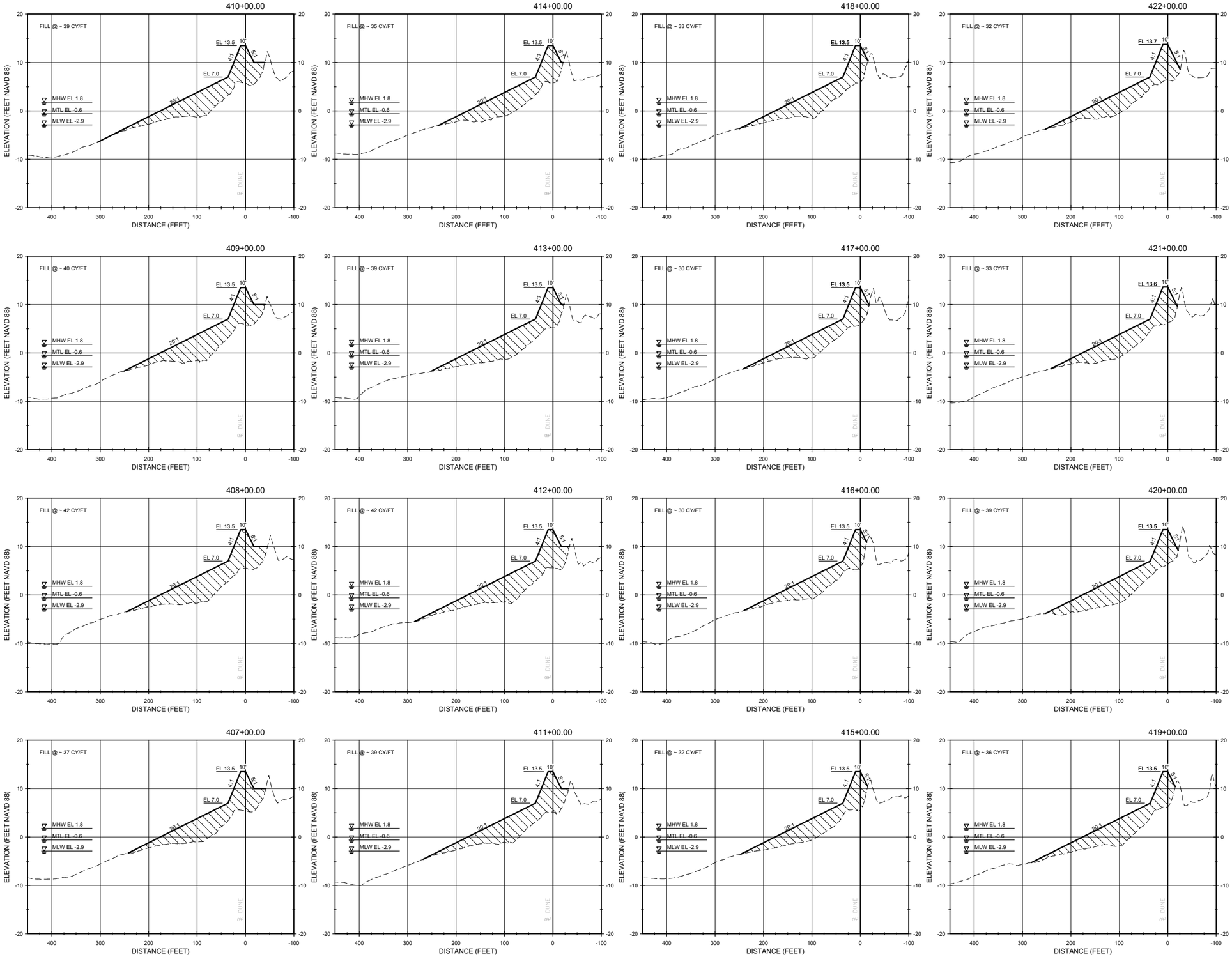
SEAL

Sheet Reference No.

C-307

INDEX: 33 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10\12801\Sheetset\1012801-C-307, Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL, Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- - - - - APPROXIMATE EXISTING GROUND

——— PROPOSED RENOURISHMENT

LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 8 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

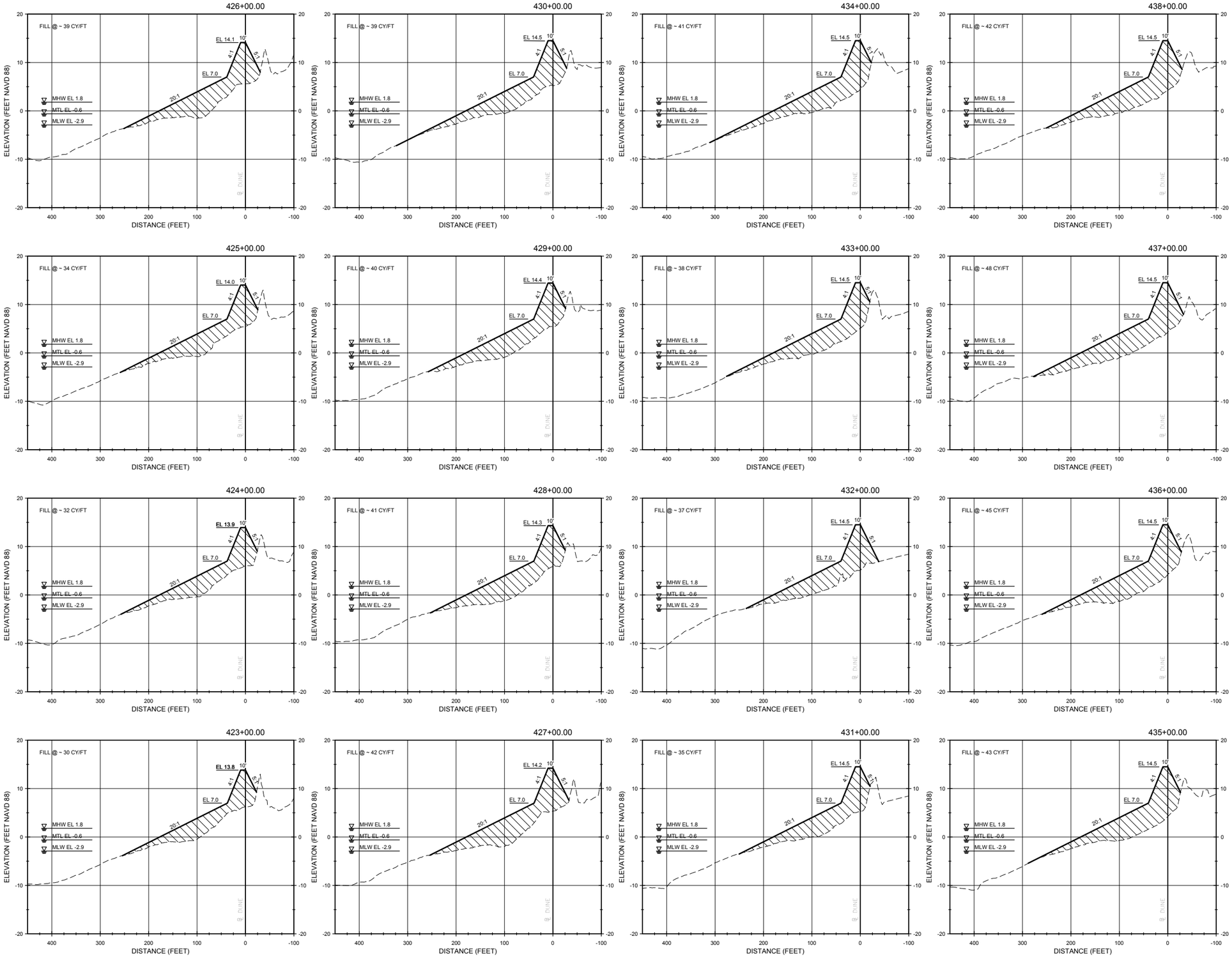
SEAL

Sheet Reference No.

C-308

INDEX: 34 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set\1012801-C-308 , Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL , Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 9 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

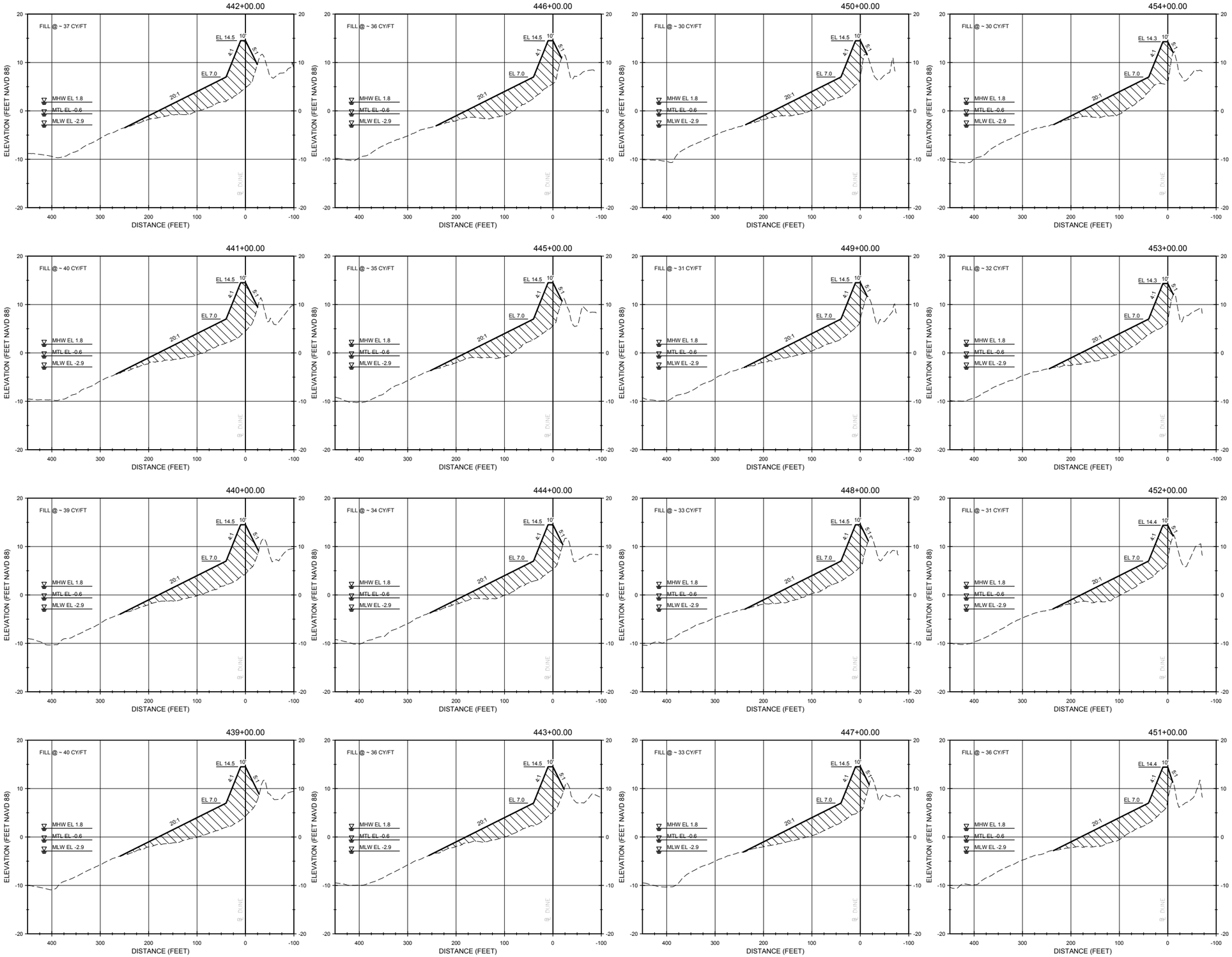
SEAL

Sheet Reference No.

C-309

INDEX: 35 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheetset\1012801-C-309 ; Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- - - - - APPROXIMATE EXISTING GROUND

——— PROPOSED RENOURISHMENT

LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

TOWN OF OAK ISLAND NORTH CAROLINA

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 10 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

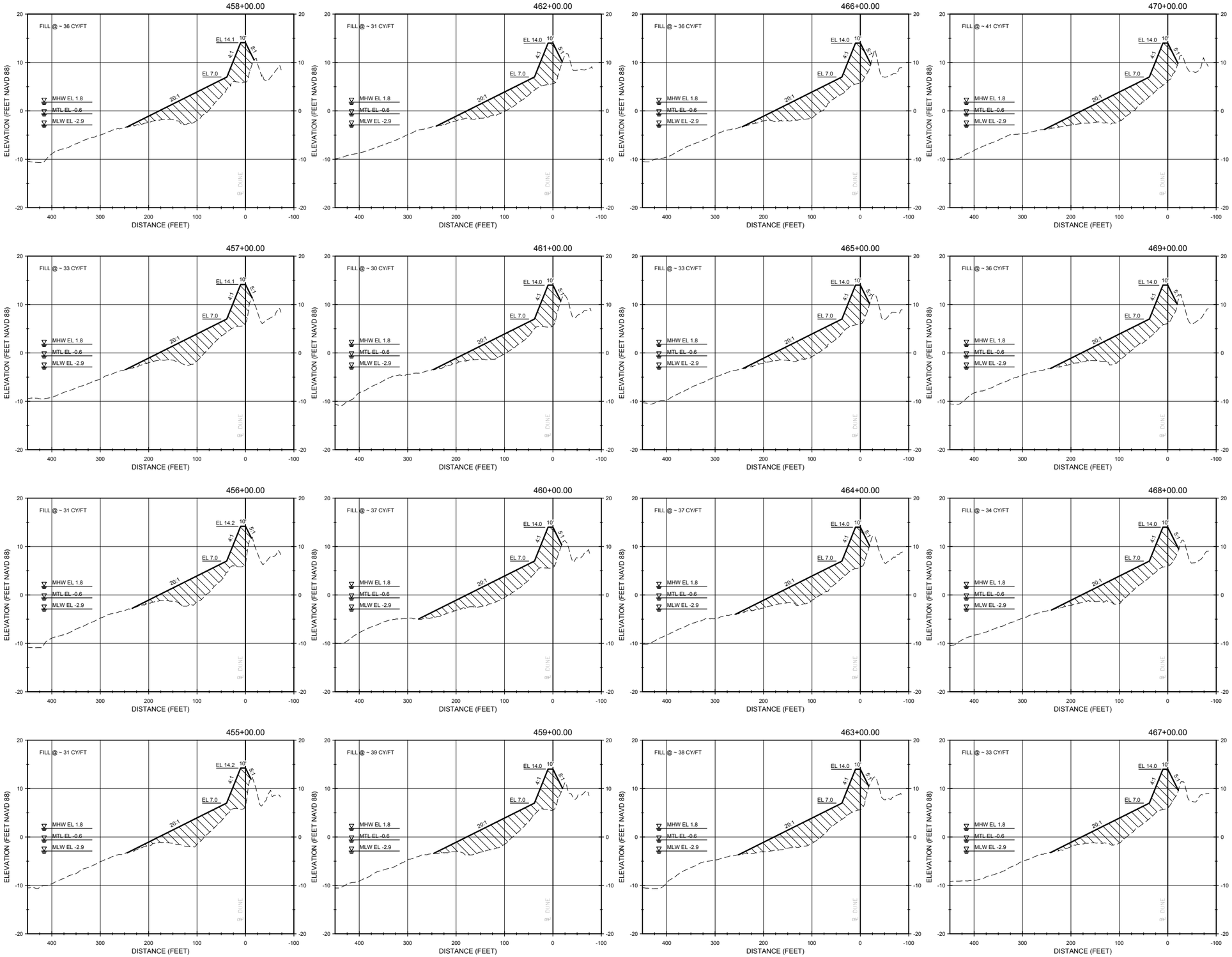
SEAL

Sheet Reference No.

C-310

INDEX: 36 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10\12801\Sheetset\1012801-C-310 ; Plotted: 3/3/2021 11:39 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 11 OF 14

Designed by: KEF
Date: 03/03/2021
Rev. 1
Dwn by: VNM
Ckd by: SRM
M&N Project No. 10128-01
Drawing code:
Reviewed by: JDM
Drawing Scale:
Submitted by: MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

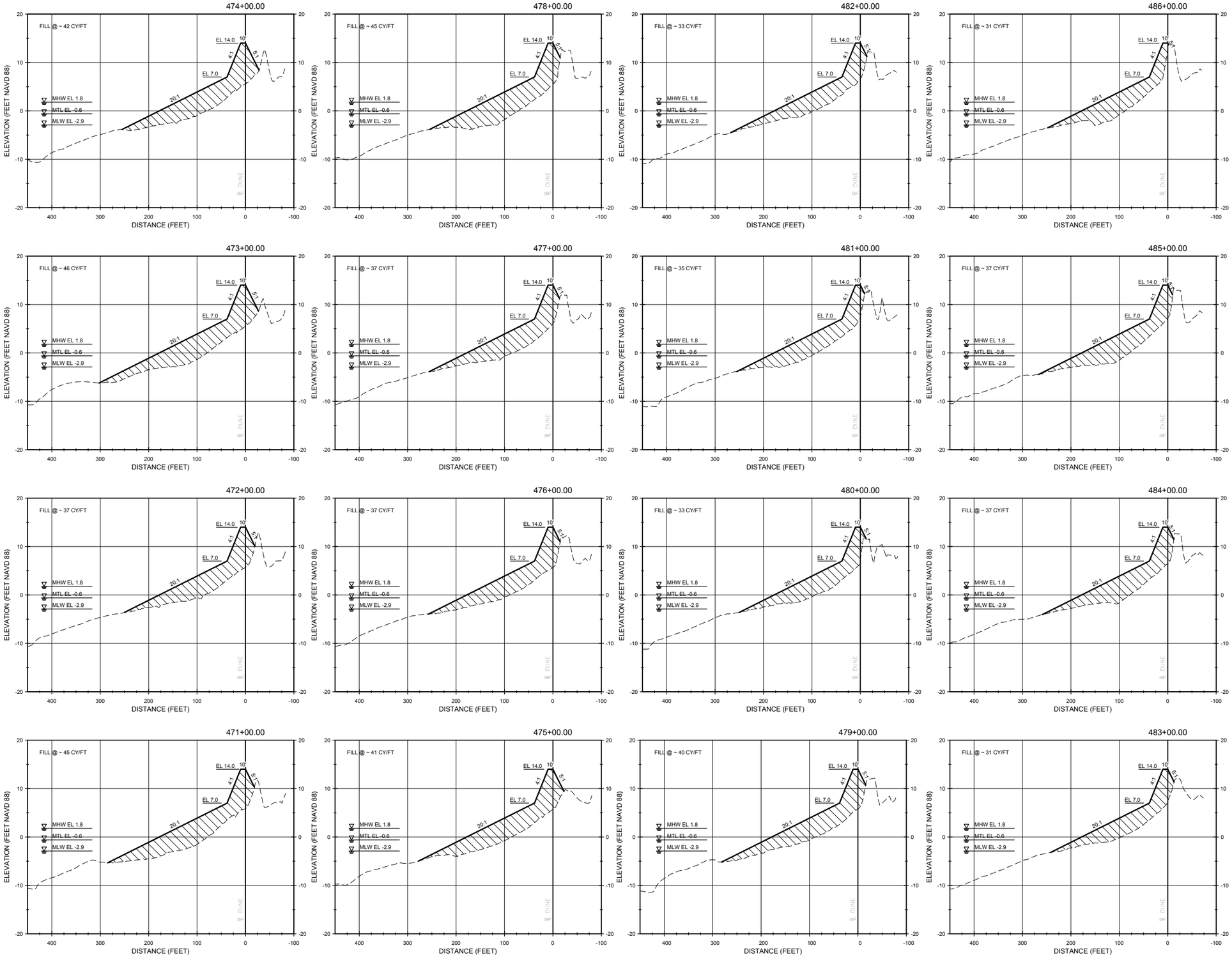
SEAL

Sheet Reference No.

C-311

INDEX: 37 OF 42

File: Q:\R4\10128-01\0920_CAD_Active_10128\01 Sheets\Set\1012801-C-311, Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL, Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 12 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

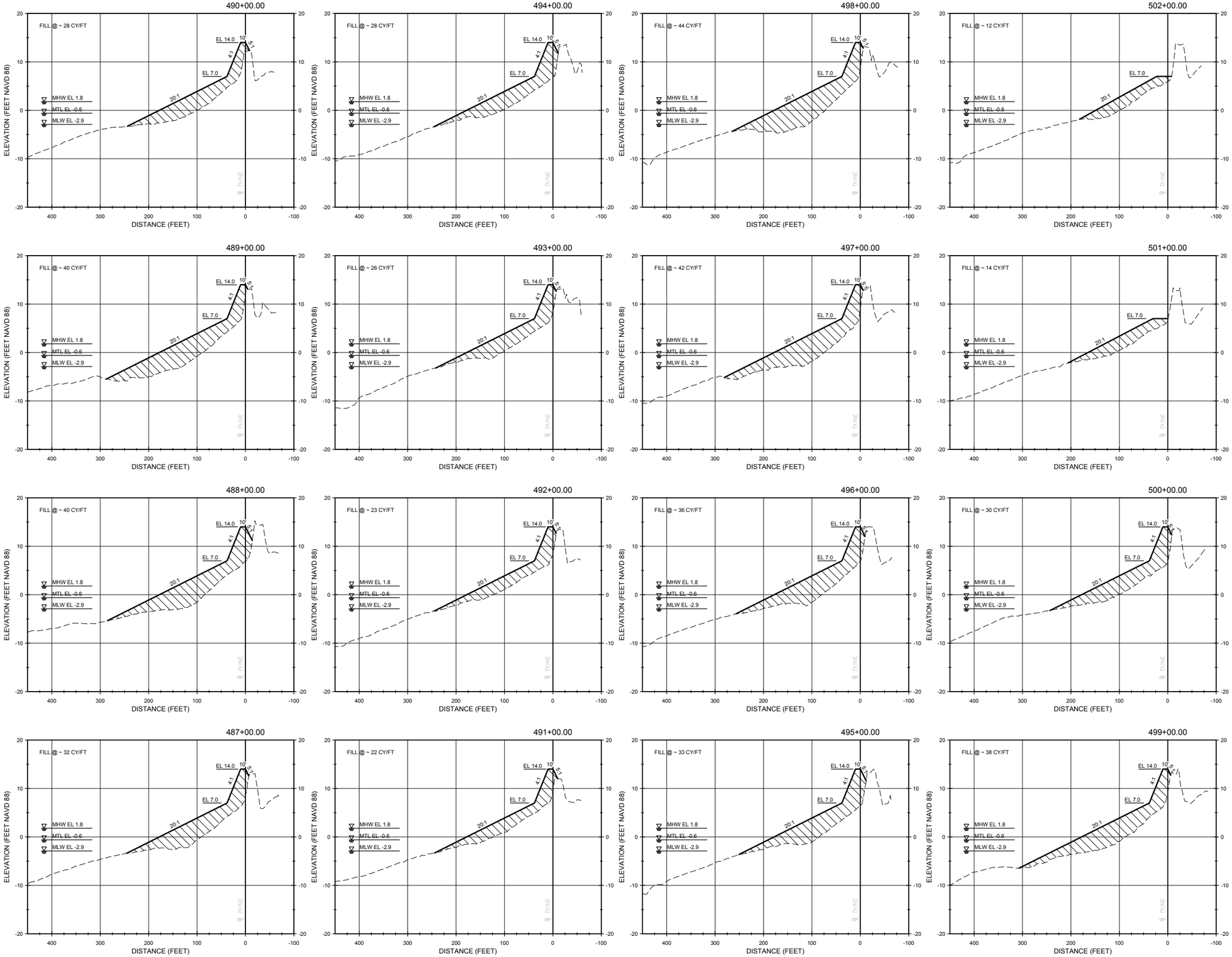
SEAL

Sheet Reference No.

C-312

INDEX: 38 OF 42

File: Q:\R4\10128-01\0300_CAD_Active_10128\01 Sheets\Set\1012801-C-312 ; Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL ; Saved: 2/19/2021 2:44 PM by NMORGAN



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- APPROXIMATE EXISTING GROUND
- PROPOSED RENOURISHMENT
- LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

Mark	Description	Date	Appr.
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 13 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

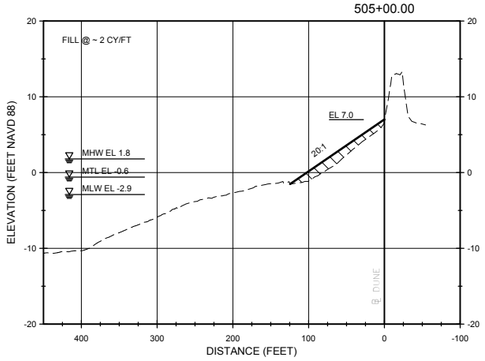
Sheet Reference No.

C-313

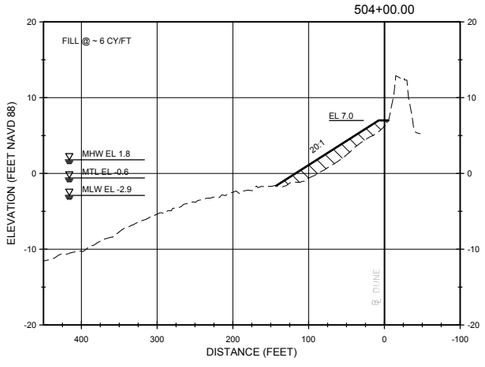
INDEX: 39 OF 42

File: Q:\R\10128-01\0600_CAD_Active_10128\01 Sheets\Sell\1012801-C-313 ; Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL ; Saved: 3/3/2021 8:12 AM by MMORGAN

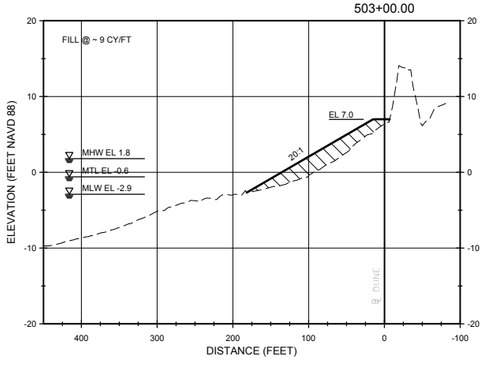
505+00.00



504+00.00



503+00.00



NOTES:

1. FOR ADDITIONAL INFORMATION SEE BEACH RENOURISHMENT TYPICAL SECTION ON SHEET C-300.
2. EXISTING GROUND SHOWN IS BASED ON JANUARY 2021 SURVEY BY TI COASTAL AND REPRESENTS THE APPROXIMATE CONDITIONS AT THE TIME OF THE SURVEY.

LEGEND

- - - - - APPROXIMATE EXISTING GROUND

——— PROPOSED RENOURISHMENT

LIMITS OF FILL

10' 0' 10' 20'

VERTICAL SCALE: 1"=10'

100' 0' 100' 200'

HORIZONTAL SCALE: 1"=100'

TOWN OF OAK ISLAND NORTH CAROLINA

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

CROSS SECTIONS - SHEET 14 OF 14

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev. 1
M&N Project No. 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300
RALEIGH, NC 27609
919-781-4626

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

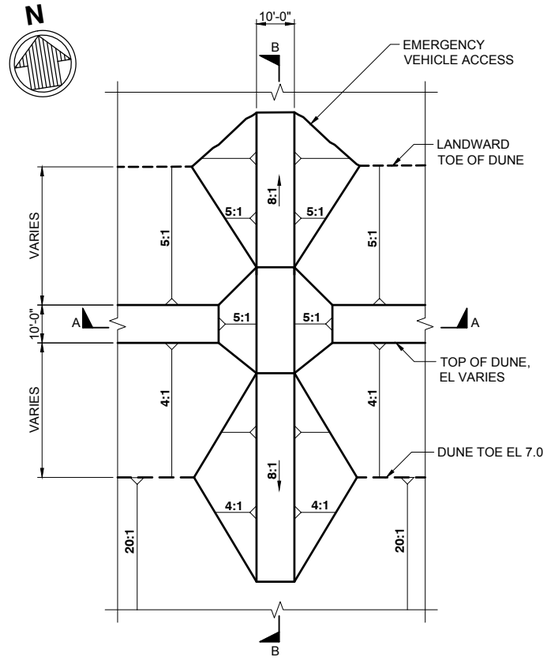
SEAL

Sheet Reference No.

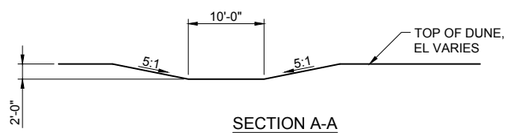
C-314

INDEX: 40 OF 42

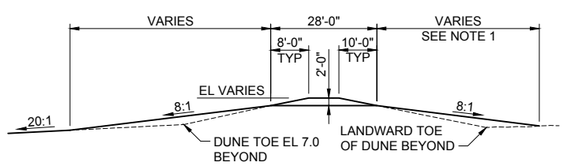
File: Q:\R4\10128-01\0920_CAD_Active_10128\01 SheetSet\10128\01-C-314 , Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL , Saved: 2/19/2021 2:44 PM by NMORGAN



PLAN



SECTION A-A



NOTES:

1. SLOPE VARIES FROM 6:1 MINIMUM TO 8:1 MAXIMUM AT SE 49th STREET AND SE 52nd STREET LOCATIONS TO AVOID FILL WITHIN EXISTING PARKING LOTS.
2. 10 FOOT GAP IN PLANTING FOR EMERGENCY VEHICLE ACCESS.

SECTION B-B

B1 / C-112 **EMERGENCY VEHICLE ACCESS**
NOT TO SCALE

C-115 THRU C-118, C-120 THRU C-122

Marks	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	0321	JDM
0	BID DOCUMENTS	0420	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

MISCELLANEOUS DETAILS

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609 919-781-4626
moffatt & nichol

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN
SEAL

Sheet Reference No.
C-501
INDEX: 41 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_1012801 SheetSet\1012801-C-501 ; Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL ; Saved: 3/2/2021 5:51 PM by MMORGAN

WORK POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
WP1	58595.26	2272417.05	7.00
WP2	58671.43	2271922.12	14.00
WP3	58846.97	2270945.52	14.00
WP4	58872.13	2270803.10	14.00
WP5	59028.78	2269961.82	14.00
WP6	59167.95	2268968.44	14.00
WP7	59232.83	2268472.20	14.30
WP8	59284.77	2268176.73	14.40
WP9	59319.79	2267979.82	14.50
WP10	59422.80	2267287.20	14.50
WP11	59436.40	2267188.06	14.50
WP12	59452.94	2267089.37	14.50
WP13	59472.51	2266991.36	14.50
WP14	59583.75	2266103.96	14.50
WP15	59757.08	2265018.04	14.50
WP16	60063.86	2263041.53	14.50
WP17	60190.83	2262037.29	13.50
WP18	60290.20	2261067.67	13.50
WP19	60392.83	2260072.93	13.50
WP20	60449.70	2259080.52	14.50
WP21	60554.83	2258088.59	14.50
WP22	60657.08	2257092.70	14.50
WP23	60724.42	2256091.80	14.00
WP24	60770.11	2255095.74	14.00
WP25	60808.85	2254101.21	14.00
WP26	60856.35	2253104.01	14.00
WP27	60860.18	2252068.19	14.00
WP28	60848.42	2251569.10	7.00
WP29	58793.74	2271027.27	7.00
WP30	58800.77	2270929.47	7.00
WP31	59985.21	2263222.27	7.00
WP32	60010.43	2263124.99	7.00

Mark	Description	Date	Appr
1	ISSUED FOR CONSTRUCTION	03/21	JDM
0	BID DOCUMENTS	04/20	JDM

OAK ISLAND RENOURISHMENT PROJECT 2020/2021

WORK POINT TABLE

moffatt & nichol
4700 FALLS OF THE NEUSE ROAD, STE 300 RALEIGH, NC 27609
919-781-4626

Designed by: KEF
Dwn by: VNM
Ckd by: SRM
Reviewed by: JDM
Submitted by: MOFFATT & NICHOL
Date: 03/03/2021
Rev: 1
M&N Project No: 10128-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

PREPARED FOR THE TOWN OF OAK ISLAND

NORTH CAROLINA PROFESSIONAL SEAL 23487 ENGINEER JOHNNY D. MARTIN

SEAL

Sheet Reference No.

C-601

INDEX: 42 OF 42

File: Q:\RA\10128-01\0500_CAD_Active_10128\01 SheetSet\10128\01-C-601 ; Plotted: 3/3/2021 11:40 AM by MORGAN, NEKOL ; Saved: 3/2/2021 5:56 PM by NMORGAN