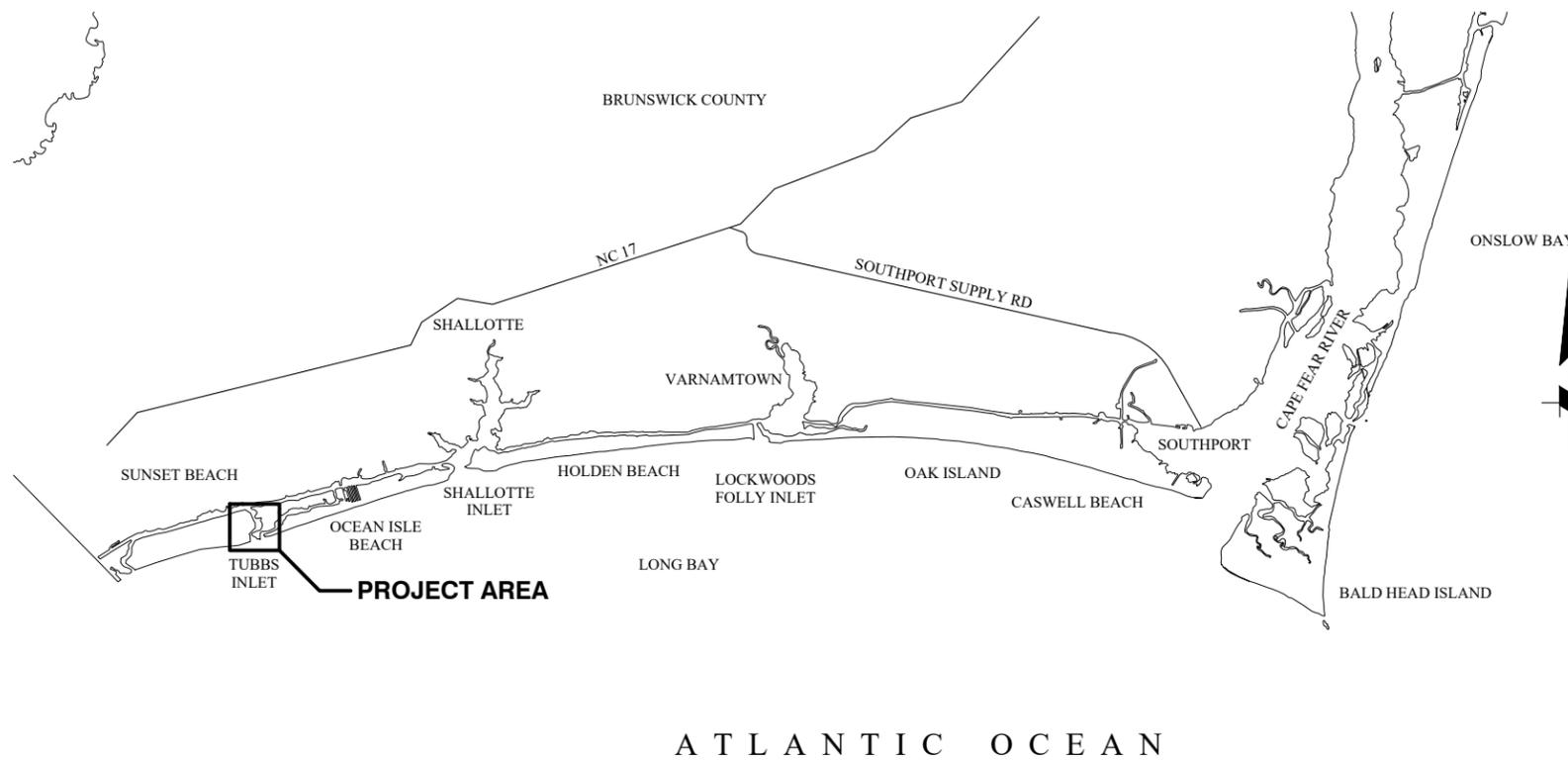




VICINITY MAP



LOCATION MAP

PROJECT TITLE: **TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF SOUTH JINKS CREEK
THE BAY AREA AND THE FEEDER CHANNEL**

DATUM: **MLW**
PREPARED BY: **MOFFATT & NICHOL**

PREPARED FOR: **TOWN OF SUNSET BEACH
NORTH CAROLINA**

DATE: **JULY 22, 2020**

SHEET TITLE:
VICINITY AND LOCATION MAPS

SHEET
1
OF
22

UPLAND MATERIAL PLACEMENT SITE (LANDFILL FACILITY)

- THE UPLAND MATERIAL PLACEMENT SITE MUST BE INSPECTED AND APPROVED ON-SITE BY A DIVISION OF COASTAL MANAGEMENT (DCM) REPRESENTATIVE PRIOR TO INITIATING ANY MECHANICAL DREDGING ACTIVITIES.
- ALL TRANSFER EQUIPMENT (TRUCKS) SHALL BE MAINTAINED TO PREVENT SPILLAGE DURING MATERIAL TRANSPORT. EQUIPMENT FOUND TO REPEATEDLY ALLOW LEAKAGE DURING TRANSPORT SHALL BE REMOVED FROM THE PROJECT UNTIL SUCH MODIFICATIONS ARE MADE TO ALLOW SPILL FREE TRANSPORT OF THE DREDGE MATERIAL.
- WATER QUALITY CONTROL DEVICES SUCH AS TURBIDITY CURTAINS SHALL BE EFFECTIVELY MAINTAINED SURROUNDING THE MATERIAL OFFLOADING SITE.
- ALL MEASURES SHALL BE TAKEN TO ENSURE EFFLUENT WATERS DO NOT RE-ENTER THE ADJACENT WATERBODY DURING MATERIAL TRANSPORT TO THE LANDFILL FACILITY.
- MATERIAL SPILLAGE OCCURRING OUTSIDE OF THE LANDFILL FACILITY SHALL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL TRAVEL CORRIDORS AND ROADWAYS SHALL BE INSPECTED AFTER EACH USE TO HELP KEEP THE TRAVEL LANES CLEAN AND MATERIAL FREE.
- AN ATTENDANT SHALL BE PRESENT AT THE MATERIAL OFFLOADING SITE AT ALL TIMES DURING MECHANICAL DREDGING ACTIVITIES. THE ATTENDANT SHALL MONITOR THE PROGRESS OF THE WORK AND SHALL DIRECT INCOMING/OUTGOING TRUCKS TO PLACEMENT LOCATIONS.
- PEDESTRIAN ACCESS SHALL BE PROHIBITED INTO THE MATERIAL OFFLOADING SITE BY A FENCE OR OTHER BARRIER DURING CONSTRUCTION. THE ON-SITE ATTENDANT SHALL MONITOR THE BARRIER AND SHALL STOP WORK IMMEDIATELY IF THE BARRIER FAILS OR APPEARS TO BE FAILING.

Control Table – Feeder Channel & Canal A Centerline		
Station	Easting	Northing
+50	2151045.33	44197.19
7+50	2150846.12	44972.00
8+00	2150869.56	45016.17
9+00	2150957.75	45063.31
10+00	2151048.02	45106.35
13+00	2151338.41	45181.64
18+00	2151817.54	45324.62
20+00	2152003.06	45399.32
23+00	2152287.23	45495.47
43+00	2154225.20	45989.72
Estimated Volume		
	Design:	15,600 CY
	Overdepth:	9,100 CY
	Total:	24,700 CY

Control Table – Canal B Centerline		
Station	Easting	Northing
-0+25	2151390.58	44287.50
7+00	2151215.60	44991.07
8+50	2151193.87	45139.49
Estimated Volume		
	Design:	1,400 CY
	Overdepth:	1,400 CY
	Total:	2,800 CY

Control Table – Canal C Centerline		
Station	Easting	Northing
0+00	2151719.24	44405.73
0+50	2151699.58	44451.71
8+50	2151512.98	45229.64
Estimated Volume		
	Design:	1,300 CY
	Overdepth:	1,200 CY
	Total:	2,500 CY

Control Table – Canal D Centerline		
Station	Easting	Northing
0+00	2152049.19	44472.02
8+75	2151831.87	45319.60
Estimated Volume		
	Design:	1,500 CY
	Overdepth:	1,300 CY
	Total:	2,800 CY

Control Table – Bay Area Centerline		
Station	Easting	Northing
-0+50	2152308.03	44861.22
0+00	2152323.62	44813.73
1+00	2152397.46	44746.29
5+00	2152770.06	44891.83
7+00	2152969.42	44907.77
12+00	2153451.23	45041.41
22+00	2154376.04	45421.84
Estimated Volume		
	Design:	11,000 CY
	Overdepth:	4,900 CY
	Total:	15,900 CY

Control Table – South Jinks Creek Centerline		
Station	Easting	Northing
51+00	2154181.90	46199.77
52+50	2154221.68	46055.14
57+50	2154242.07	45555.56
58+00	2154257.39	45507.96
58+50	2154288.65	45468.93
59+00	2154329.49	45440.10
59+50	2154376.04	45421.84
60+00	2154425.91	45418.24
60+50	2154475.91	45417.58
61+00	2154525.78	45421.20
61+50	2154575.57	45425.73
64+75	2154892.10	45499.44
68+50	2155267.05	45505.52
Estimated Volume		
	Design:	32,300 CY
	Overdepth:	8,200 CY
	Total:	40,500 CY

NOTE:
COORDINATES IN CONTROL TABLES REFERENCE STATE PLANE NAD83 (FEET)

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT: MAINTENANCE DREDGING OF SOUTH JINKS CREEK THE BAY AREA AND THE FEEDER CHANNEL

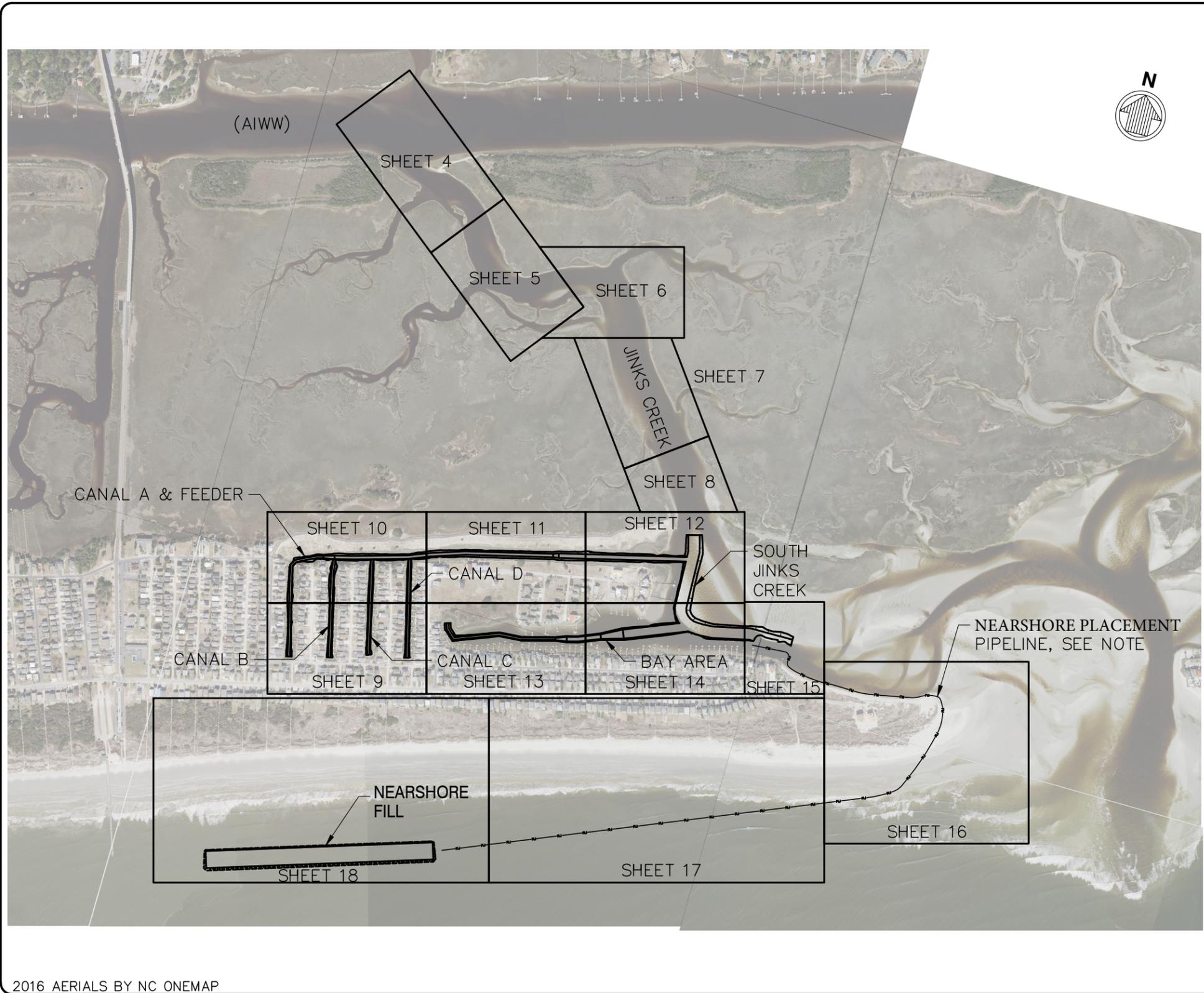
DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH NORTH CAROLINA

DATE: JULY 22, 2020

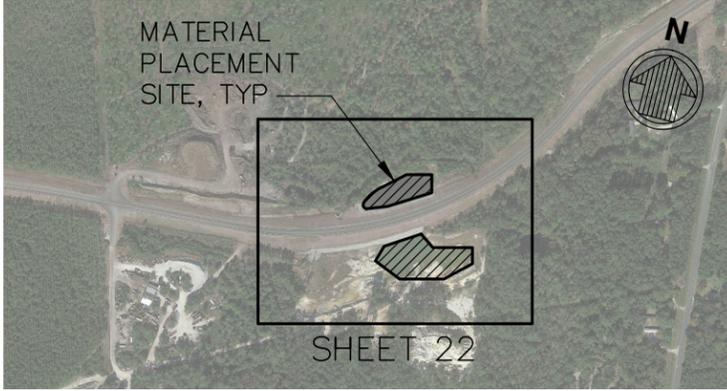
SHEET TITLE:
GENERAL NOTES

SHEET
2
OF
22



NOTES: (NEARSHORE PLACEMENT)

- THE HYDRAULIC PIPELINE USED TO TRANSFER THE DREDGE MATERIAL SHALL BE POSITIONED WITHIN 20-FT OF THE DUNE TOE ADJACENT TO THE VEGETATION LINE WHILE TRAVERSING THE BEACH. THE PIPELINE SHALL HAVE A MINIMUM OF ONE SAND RAMP CROSSING POSITIONED TO FACILITATE PEDESTRIAN ACCESS WHERE THE PIPELINE CROSSES THE SANDY BEACH TO ENTER THE ATLANTIC OCEAN.
- THE CONTRACTOR SHALL INSPECT THE PIPELINE A MINIMUM OF ONCE EVERY 4 HOURS OF OPERATION FOR LEAKS OR MATERIAL SPILLS. WHEN A LEAK IS DISCOVERED ALL OPERATIONS SHALL CEASE UNTIL REPAIRS ARE COMPLETED TO STOP THE MATERIAL SPILLAGE.
- ALONG NAVIGABLE WATERWAYS, OR BAY SIDE OF SUNSET BEACH, THE PIPELINE SHALL BE POSITIONED ABOVE MHW AND AS LANDWARD AS POSSIBLE WITHOUT TRAVERSING OVER VEGETATION OR THE DUNE FEATURE.
- IF THE PIPELINE CANNOT BE POSITIONED ABOVE MHW DUE TO DOCKS OR OTHER STRUCTURES, THE PIPELINE SHALL BE MARKED WITH BUOYS AND LIGHTS A MINIMUM OF EVERY 500-FT, OR AS RECOMMENDED BY THE USCG.
- THE PIPELINE WILL CROSS ALL NAVIGABLE WATERWAYS PERPENDICULAR TO THE DIRECTIONS OF TRAVEL TO MINIMIZE THE PIPELINE LENGTH WITHIN THE NAVIGATION CHANNEL. THE PIPELINE WILL BE ANCHORED IN THE DEEPEST DEPTH AVAILABLE TO NOT BLOCK NAVIGATION AND WILL HAVE BUOYS ATTACHED APPROXIMATELY EVERY 25- FEET ALONG EACH CROSSING TO IDENTIFY ITS PRESENCE. THE PIPELINE SHALL NOT BE ALLOWED TO CROSS NAVIGABLE WATERS WITH LESS THAN FOUR (4) FEET OF DRAFT REMAINING OVER THE SUBMERGED LINE.
- SIGNAGE SHALL ALSO BE PROVIDED AND VISIBLE FROM BOTH DIRECTIONS OF TRAVEL TO MARK ALL NAVIGATION CROSSINGS.



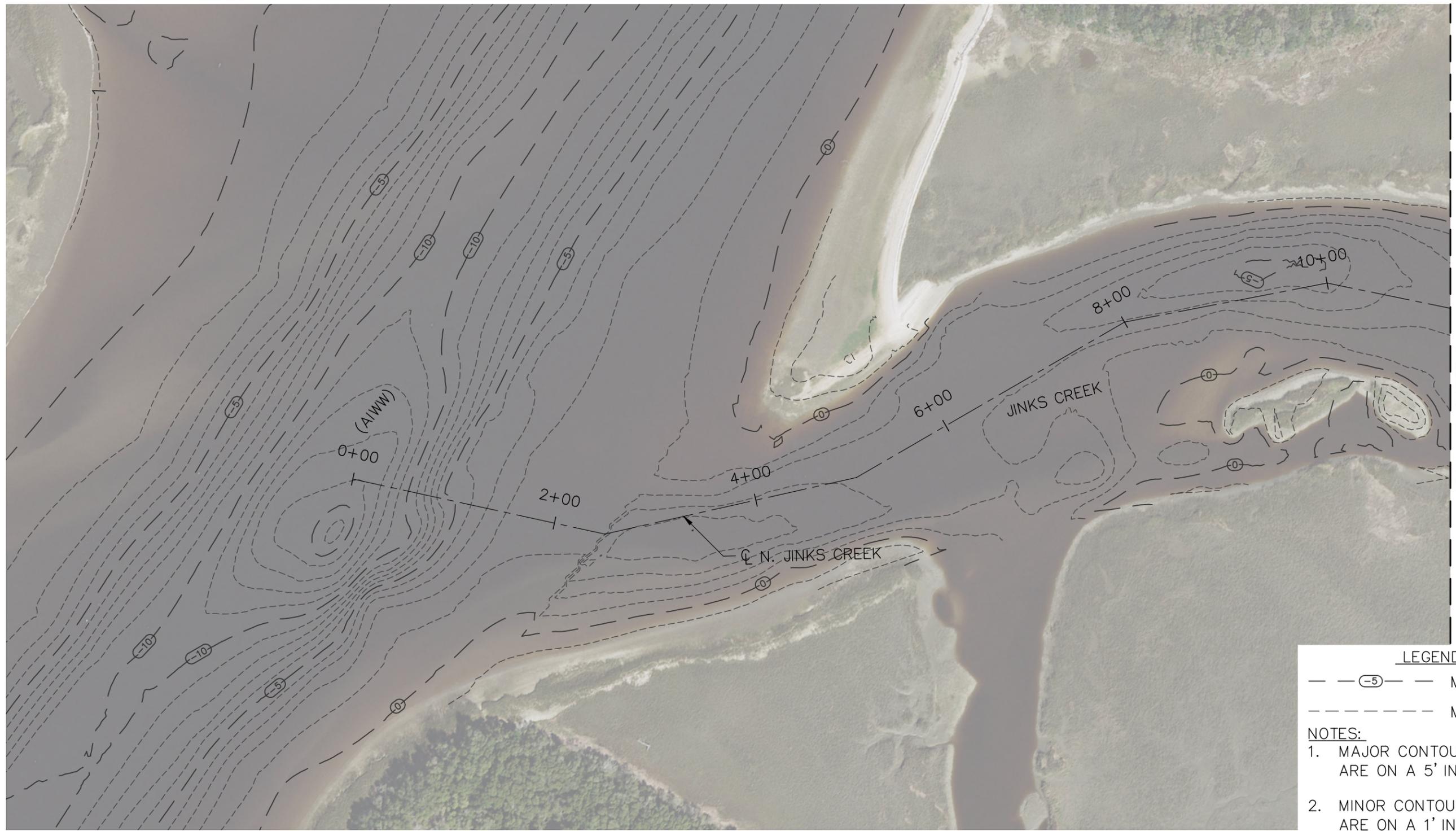
2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT: MAINTENANCE DREDGING OF SOUTH JINKS CREEK THE BAY AREA AND THE FEEDER CHANNEL
DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH NORTH CAROLINA
DATE: JULY 22, 2020

SHEET TITLE:
KEY MAP
 1000' 0' 1000' 2000'
 SCALE: 1"=1000'

SHEET
3
OF
22



MATCHLINE, SHEET 5

LEGEND

- — (-5) — — MAJOR CONTOUR
- - - - - MINOR CONTOUR

NOTES:

1. MAJOR CONTOURS PROVIDED ARE ON A 5' INTERVAL.
2. MINOR CONTOURS PROVIDED ARE ON A 1' INTERVAL.
3. CONTOURS ARE BASED ON 2016 CONDITIONS.

2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
 MAINTENANCE DREDGING OF SOUTH JINKS CREEK
 THE BAY AREA AND THE FEEDER CHANNEL

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

N. JINKS CREEK EXISTING CONDITIONS - SHEET 1 OF 5

50' 0' 50' 100'

SCALE: 1"=100'

SHEET

4

OF

22

MATCHLINE, SHEET 6



MATCHLINE, SHEET 4



LEGEND

- — (5) — — MAJOR CONTOUR
- - - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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PREPARED BY: MOFFATT & NICHOL

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 NORTH CAROLINA

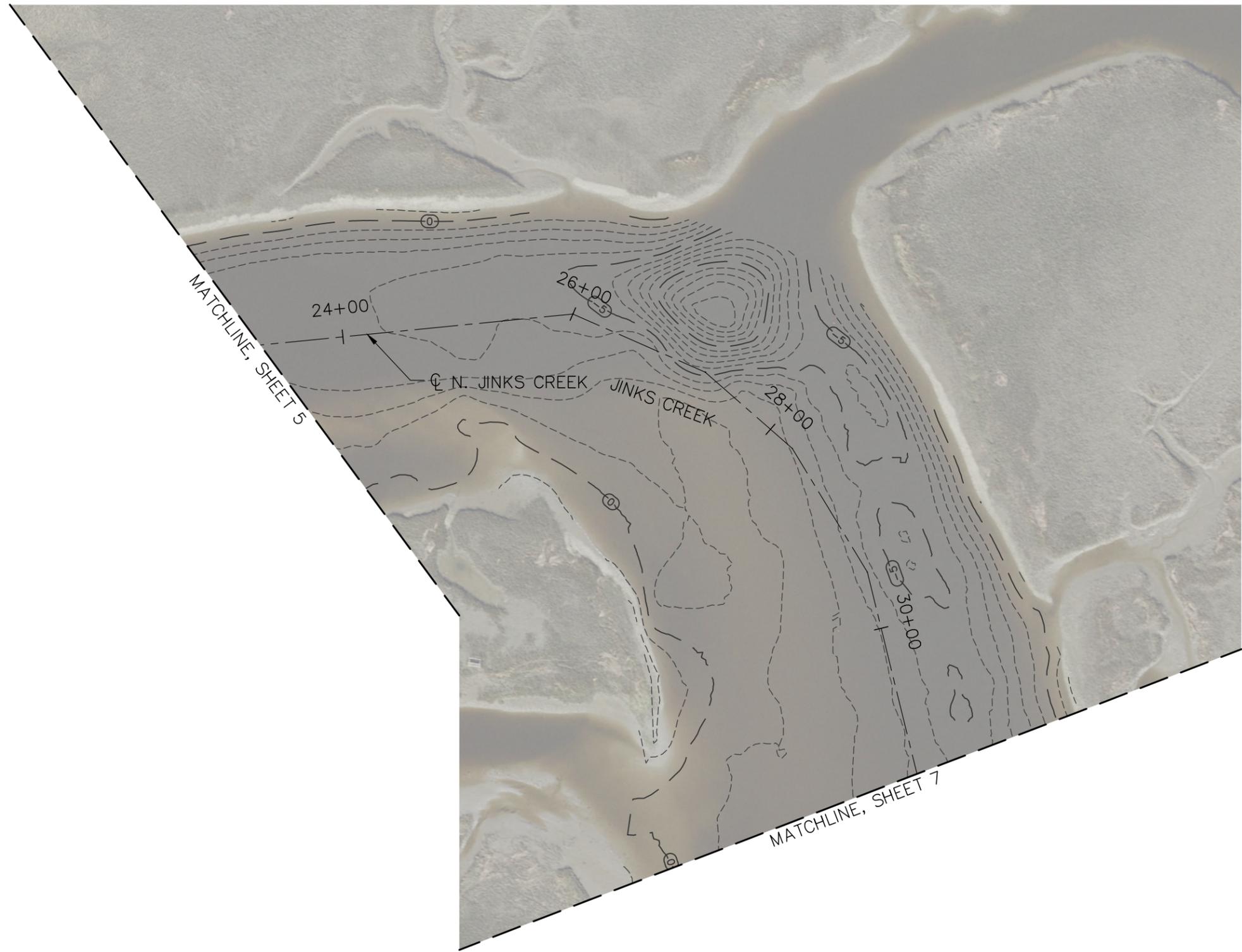
DATE: JULY 22, 2020

SHEET TITLE:

N. JINKS CREEK EXISTING CONDITIONS -SHEET 2 OF 5

50' 0' 50' 100'
 SCALE: 1"=100'

SHEET
5
OF
22



LEGEND

- — (-5) — — MAJOR CONTOUR
- MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

N. JINKS CREEK EXISTING CONDITIONS - SHEET 3 OF 5

50' 0' 50' 100'

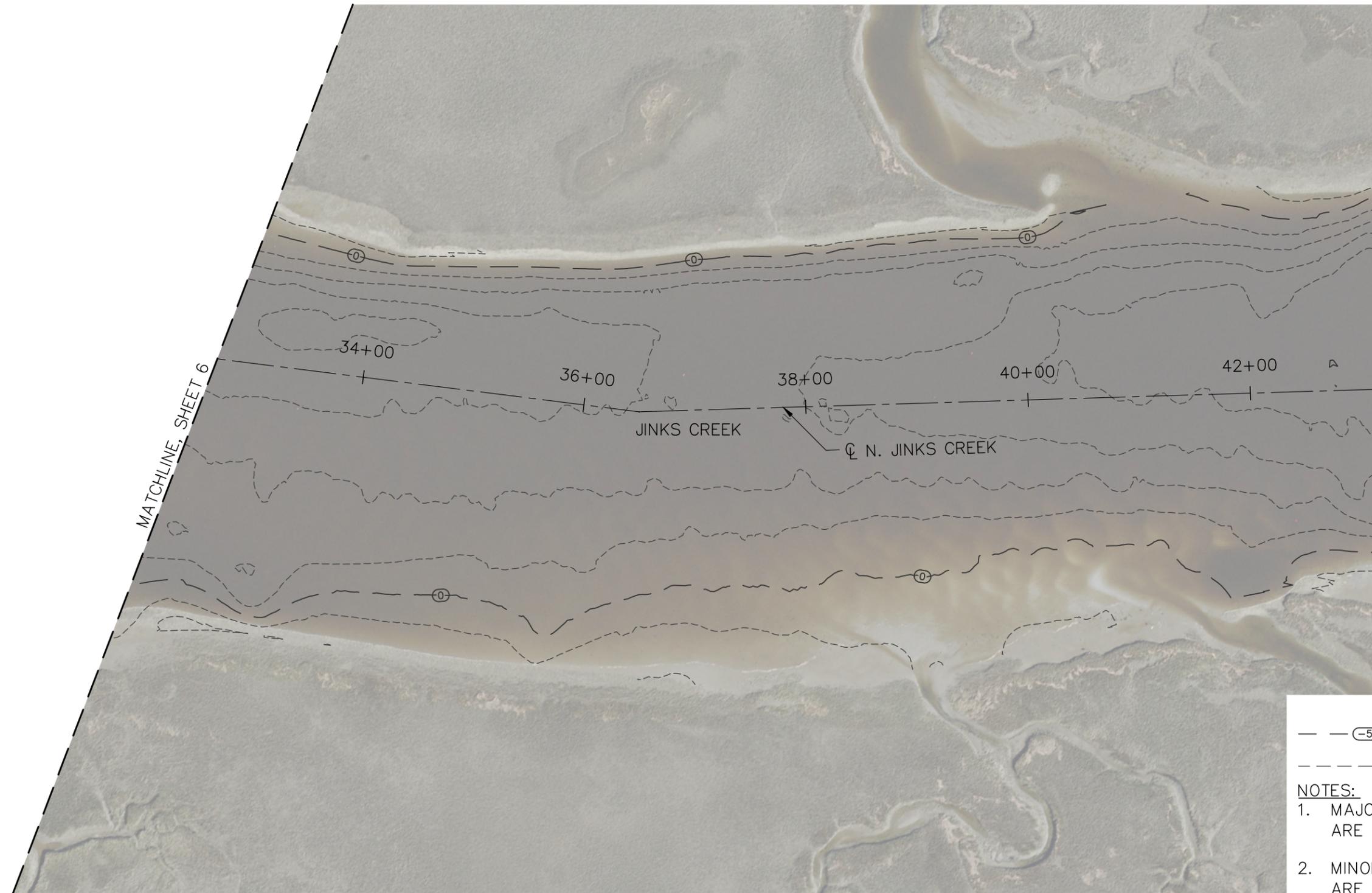
SCALE: 1"=100'

SHEET

6

OF

22



LEGEND

- (5) — MAJOR CONTOUR
- - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

N. JINKS CREEK EXISTING CONDITIONS - SHEET 4 OF 5

50' 0' 50' 100'

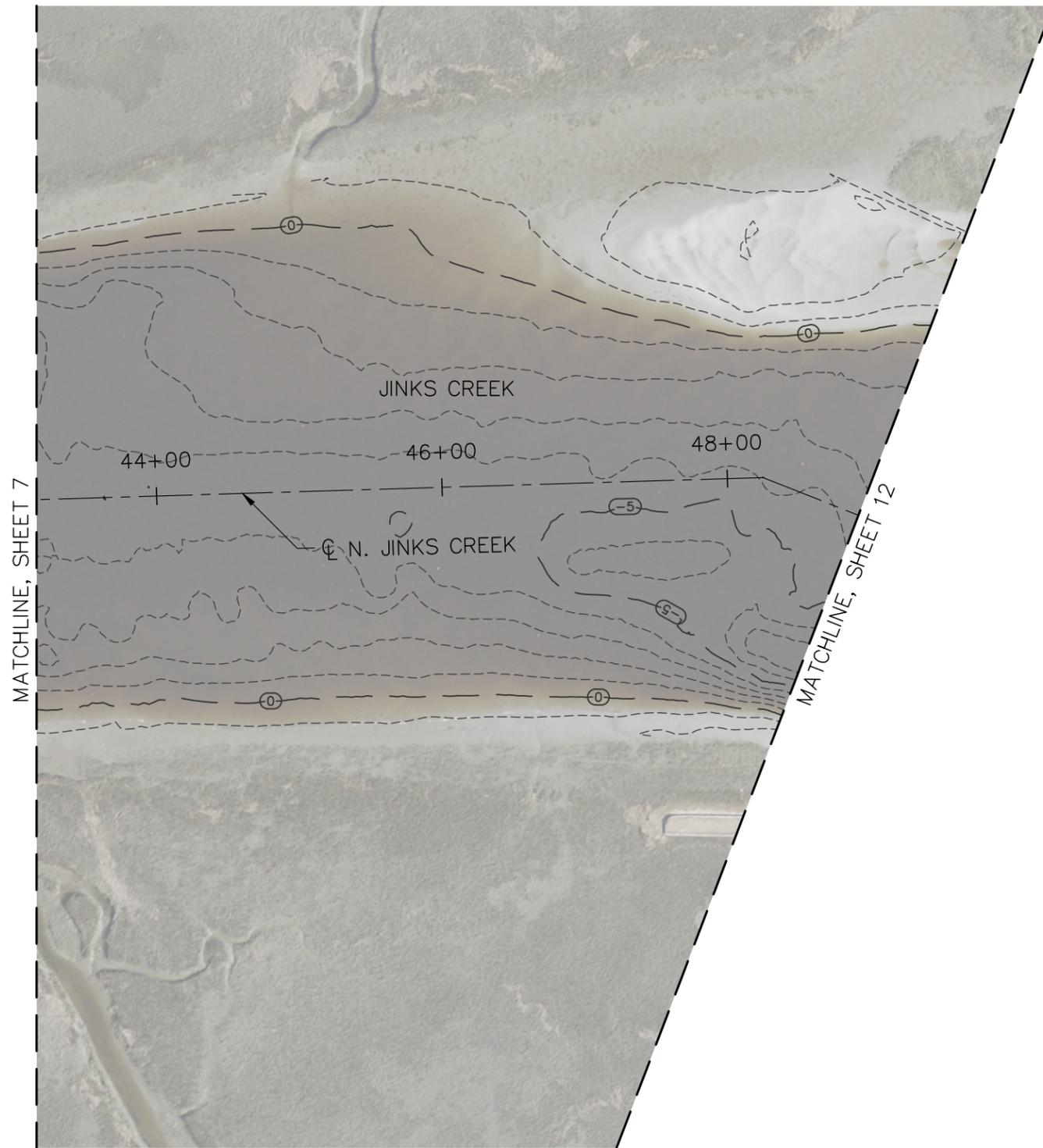
SCALE: 1"=100'

SHEET

7

OF

22



LEGEND

- — (-5) — — MAJOR CONTOUR
- - - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
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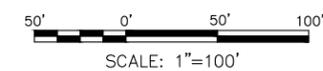
DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

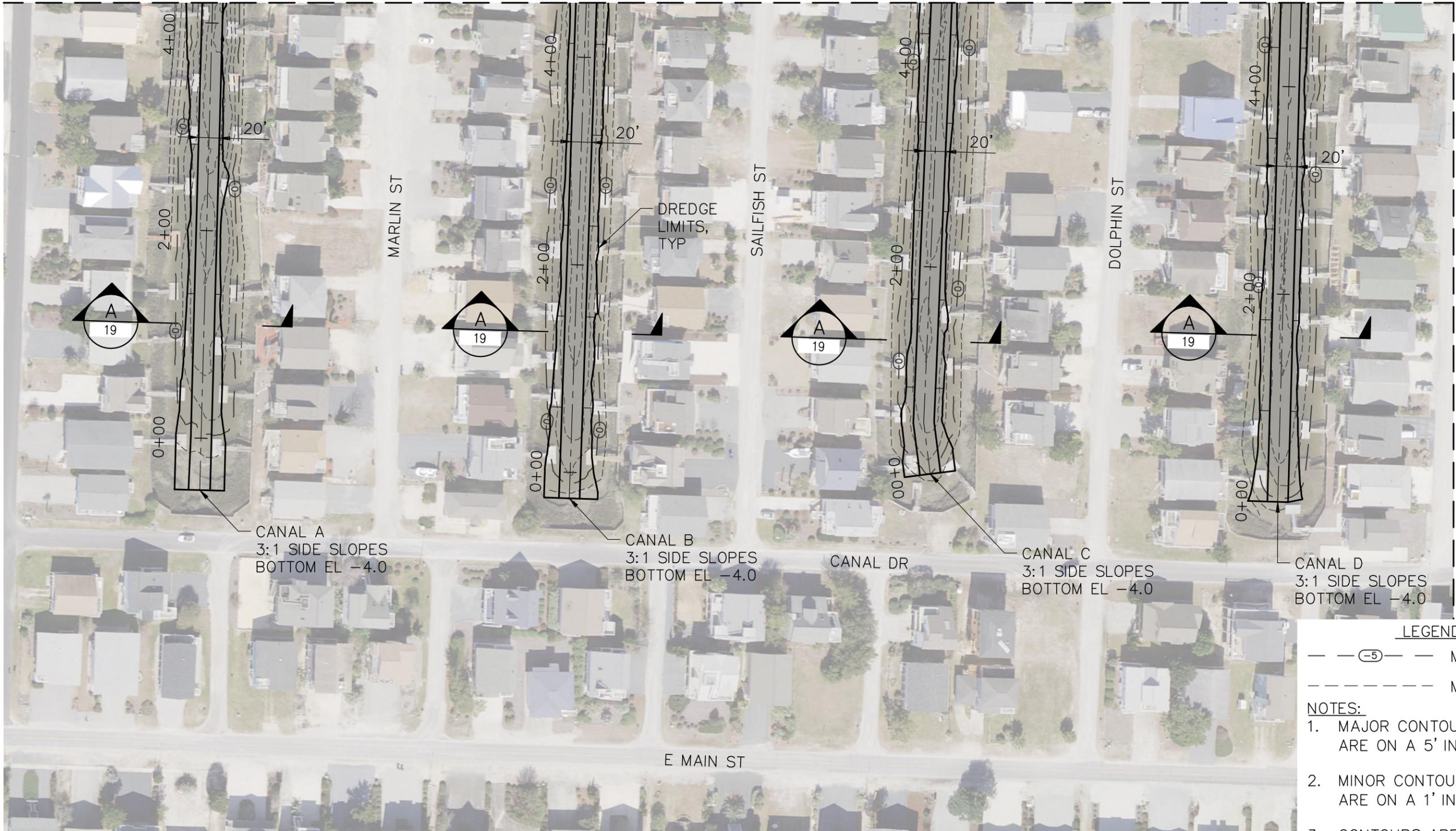
DATE: JULY 22, 2020

SHEET TITLE:

N. JINKS CREEK EXISTING CONDITIONS - SHEET 5 OF 5



SHEET
8
OF
22



MATCHLINE, SHEET 13

LEGEND

- (5) — MAJOR CONTOUR
- - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 1 OF 10

50' 0' 50' 100'

SCALE: 1"=100'

SHEET

9

OF

22

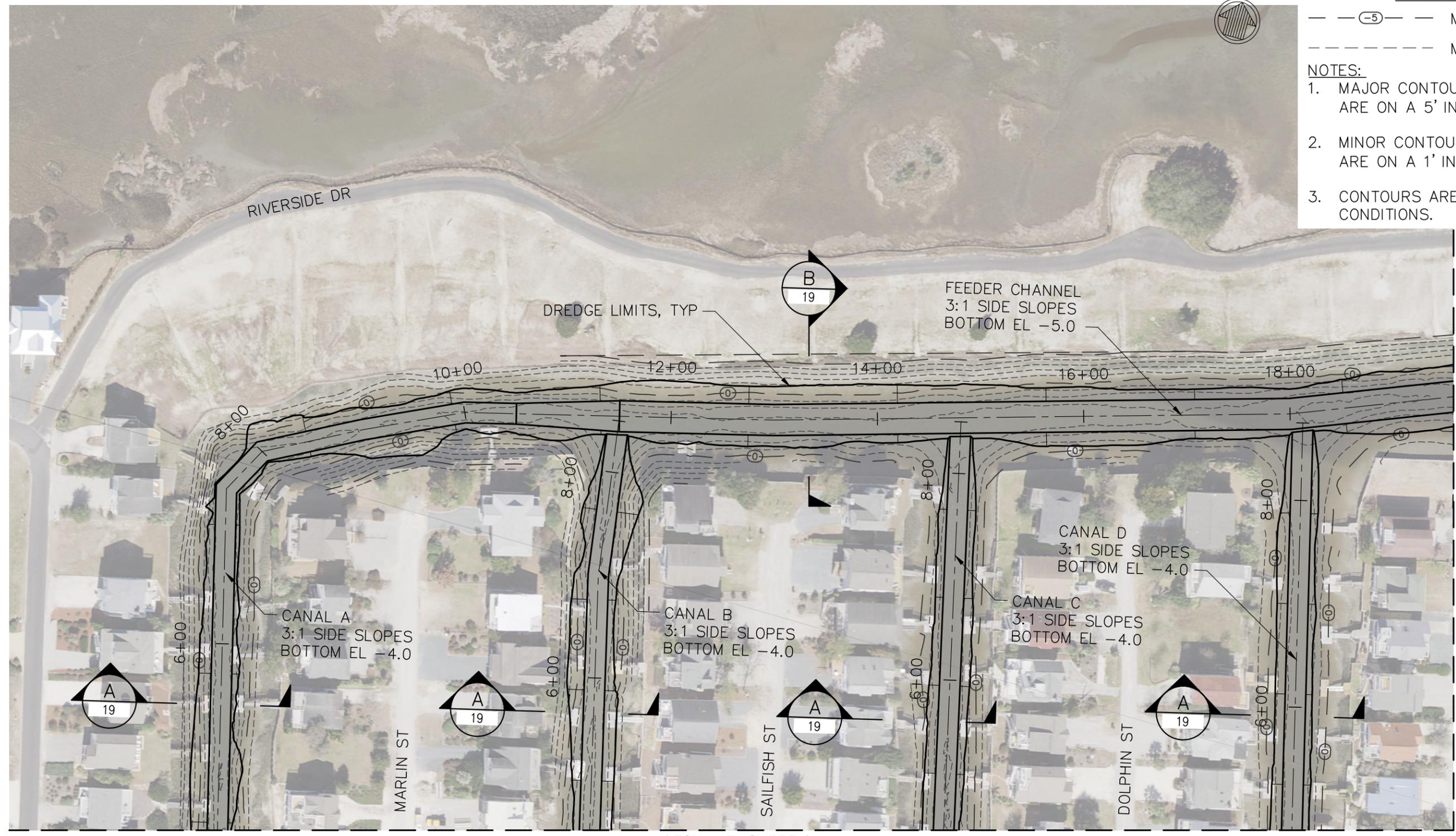


LEGEND

- (5) — MAJOR CONTOUR
- MINOR CONTOUR

NOTES:

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2. MINOR CONTOURS PROVIDED ARE ON A 1' INTERVAL.
3. CONTOURS ARE BASED ON 2016 CONDITIONS.



2016 AERIALS BY NC ONEMAP

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**MAINTENANCE DREDGING OF SOUTH JINKS CREEK
 THE BAY AREA AND THE FEEDER CHANNEL**

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN -SHEET 2 OF 10

50' 0' 50' 100'

SCALE: 1"=100'

SHEET

10

OF

22

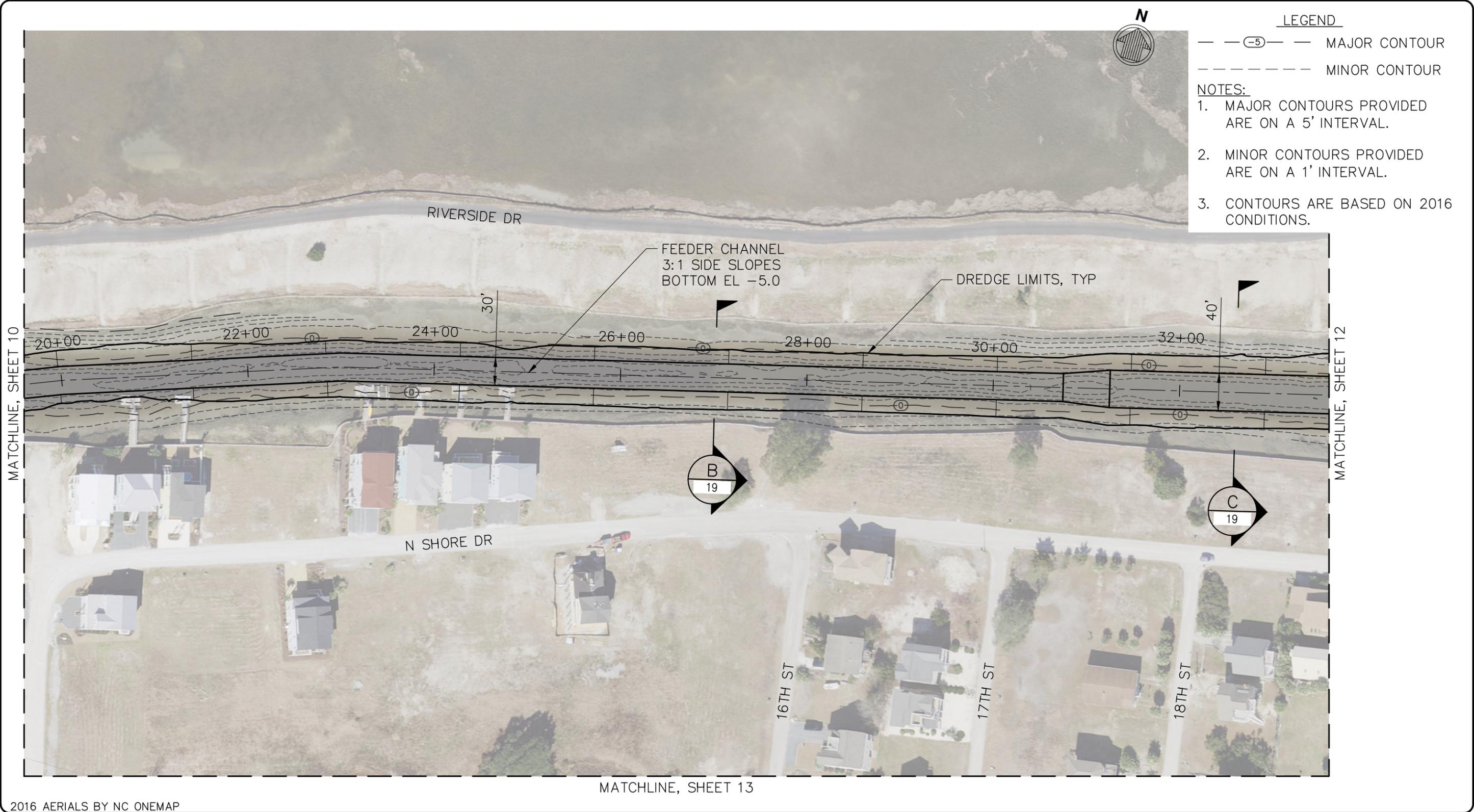


LEGEND

- (5) — MAJOR CONTOUR
- MINOR CONTOUR

NOTES:

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2. MINOR CONTOURS PROVIDED ARE ON A 1' INTERVAL.
3. CONTOURS ARE BASED ON 2016 CONDITIONS.



2016 AERIALS BY NC ONEMAP

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DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 3 OF 10

SCALE: 1"=160'

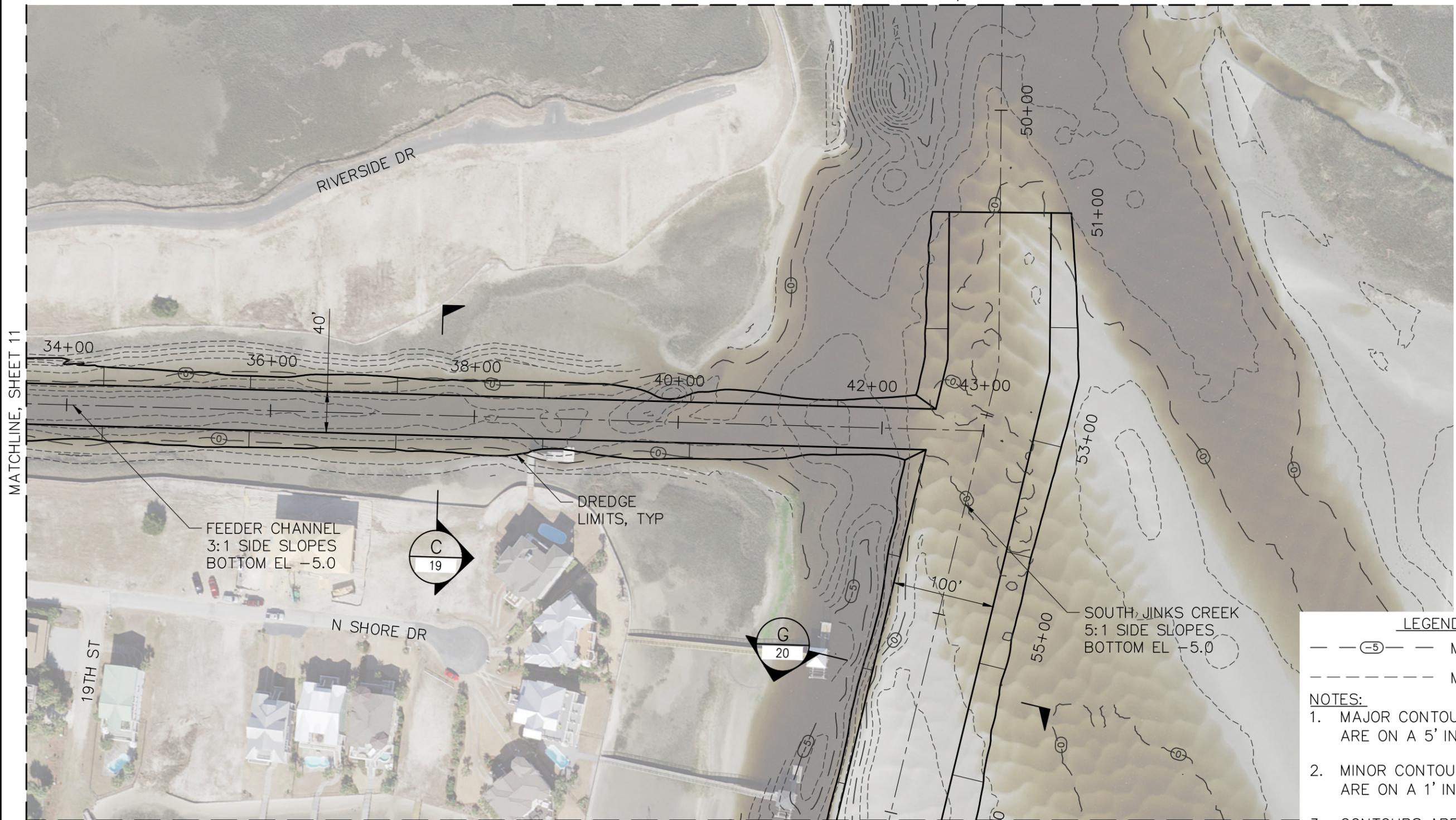
SHEET

11

OF

22

MATCHLINE, SHEET 8



MATCHLINE, SHEET 11

MATCHLINE, SHEET 14

LEGEND

- (5) — MAJOR CONTOUR
- - - - MINOR CONTOUR

NOTES:

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2. MINOR CONTOURS PROVIDED ARE ON A 1' INTERVAL.
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2016 AERIALS BY NC ONEMAP

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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 4 OF 10

80' 0' 80' 160'

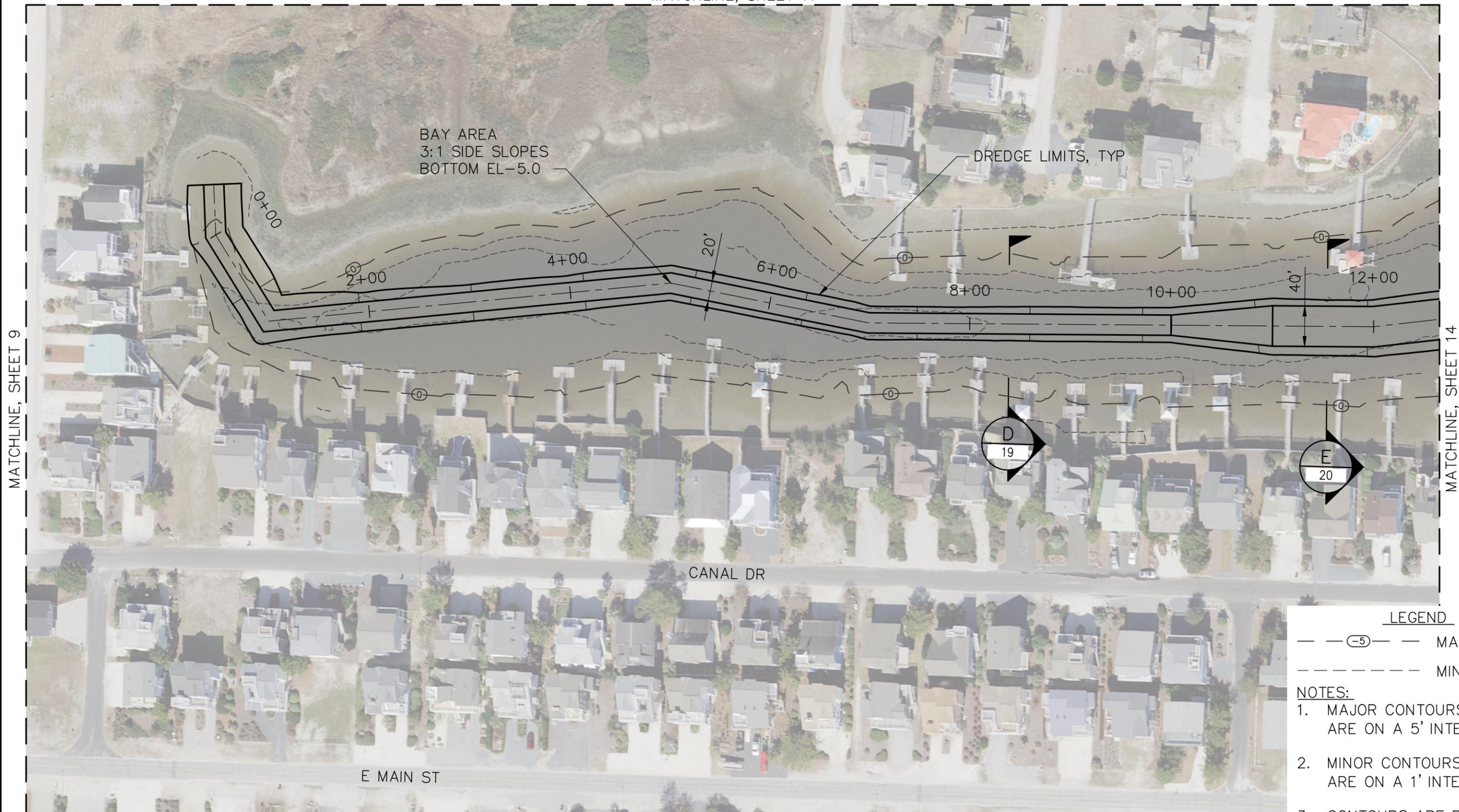
SCALE: 1"=160'

SHEET

12

OF

22



MATCHLINE, SHEET 9

MATCHLINE, SHEET 14

LEGEND

- (5) — MAJOR CONTOUR
- - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 5 OF 10

80' 0' 80' 160'

SCALE: 1"=160'

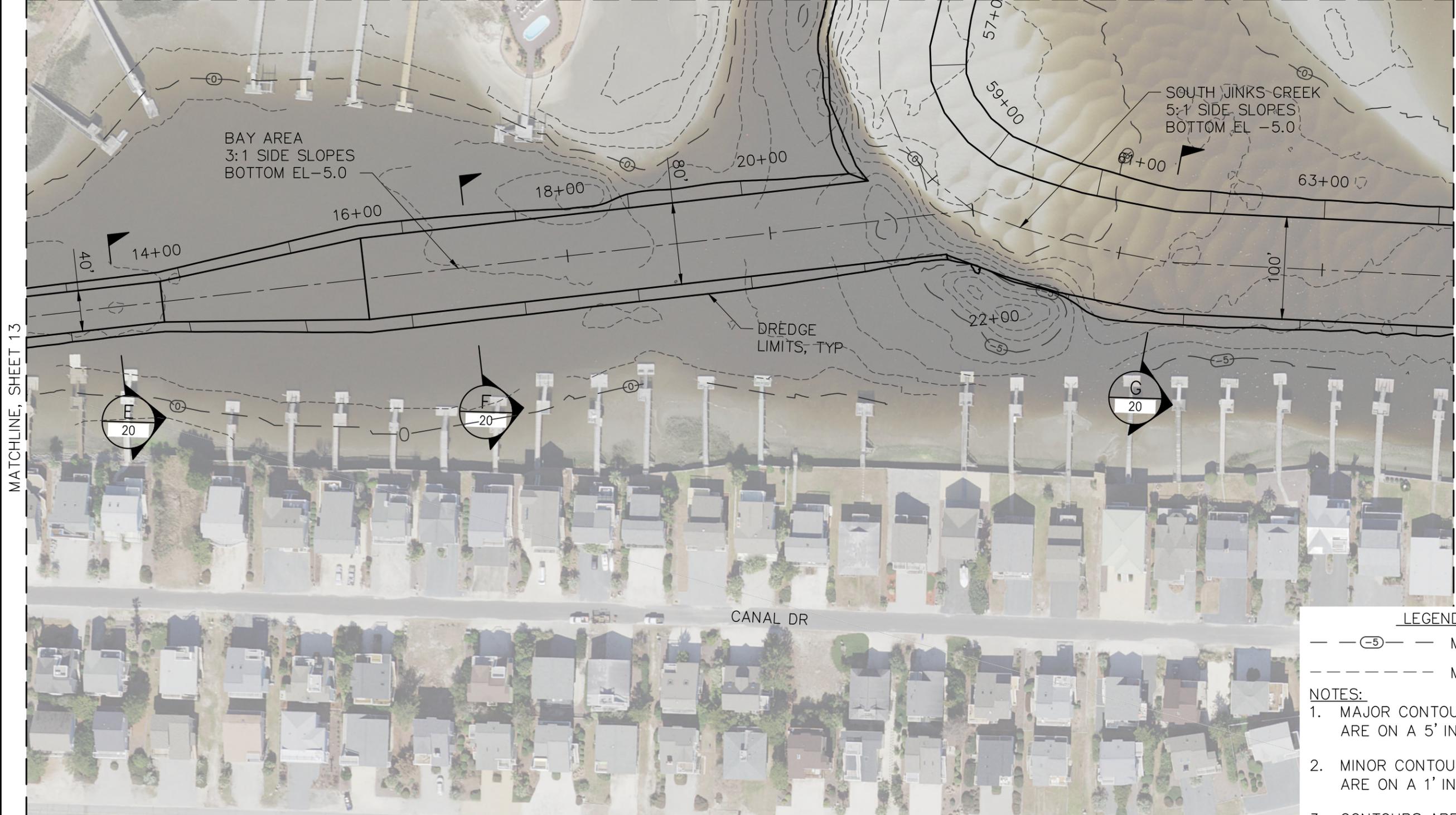
SHEET

13

OF

22

MATCHLINE, SHEET 12



MATCHLINE, SHEET 13

MATCHLINE, SHEET 15

LEGEND

- (5) — MAJOR CONTOUR
- - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 6 OF 10

80' 0' 80' 160'

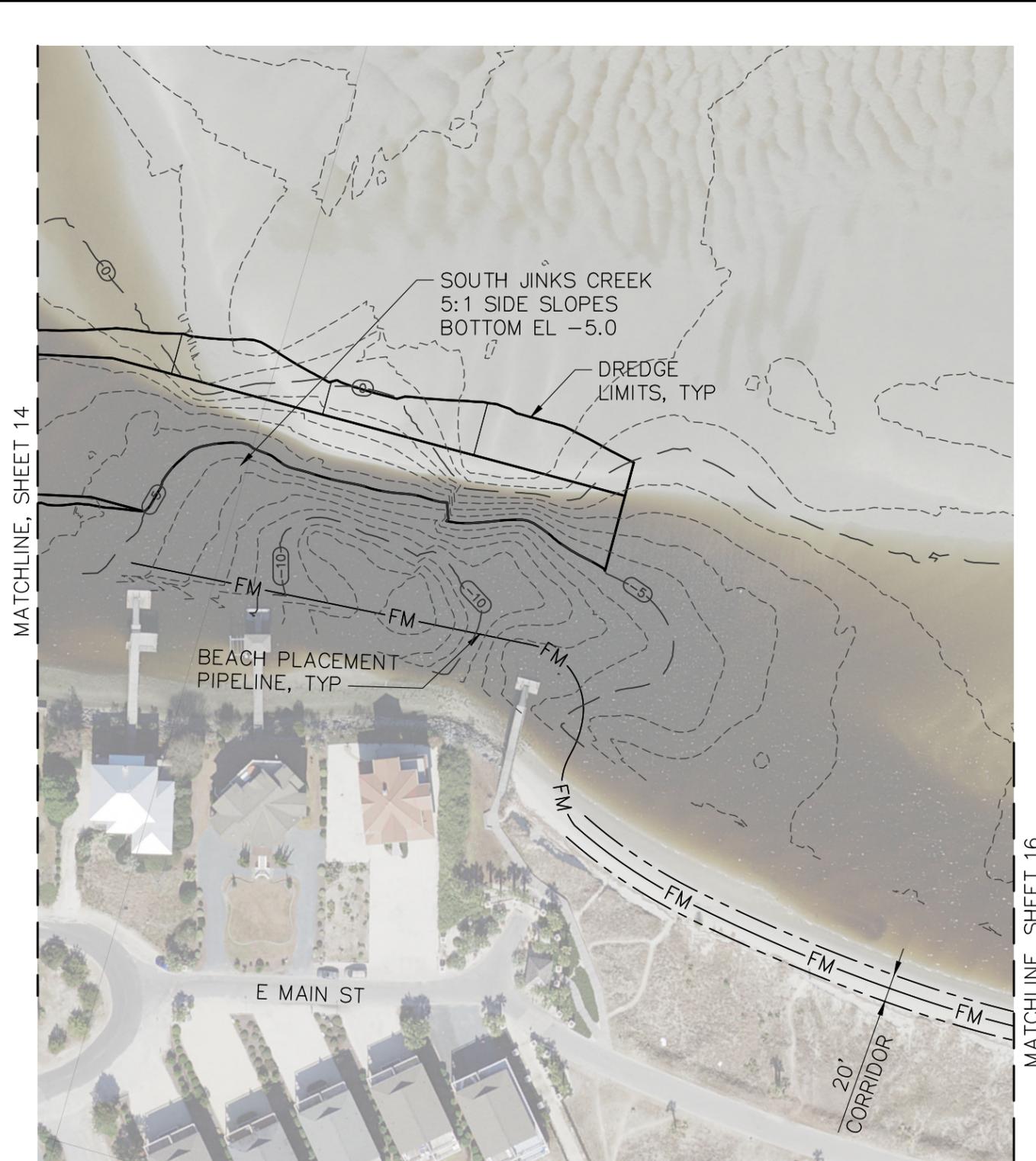
SCALE: 1"=160'

SHEET

14

OF

22



LEGEND
 --- (-5) --- MAJOR CONTOUR
 - - - - - MINOR CONTOUR

- NOTES:**
1. MAJOR CONTOURS PROVIDED ARE ON A 5' INTERVAL.
 2. MINOR CONTOURS PROVIDED ARE ON A 1' INTERVAL.
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2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 7 OF 10

80' 0' 80' 160'
 SCALE: 1"=160'

SHEET
15
OF
22



LEGEND

- — (5) — — MAJOR CONTOUR
- - - - - MINOR CONTOUR

NOTES:

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2016 AERIALS BY NC ONEMAP

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PREPARED FOR: TOWN OF SUNSET BEACH
 NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 8 OF 10

80' 0' 80' 160'

SCALE: 1"=160'

SHEET

16

OF

22



LEGEND
 --- (-5) --- MAJOR CONTOUR
 - - - - - MINOR CONTOUR

NOTES:
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 3. CONTOURS ARE BASED ON 2016 CONDITIONS.

2016 AERIALS BY NC ONEMAP

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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

DREDGE AREA WORK PLAN - SHEET 9 OF 10

200' 0' 100' 200'

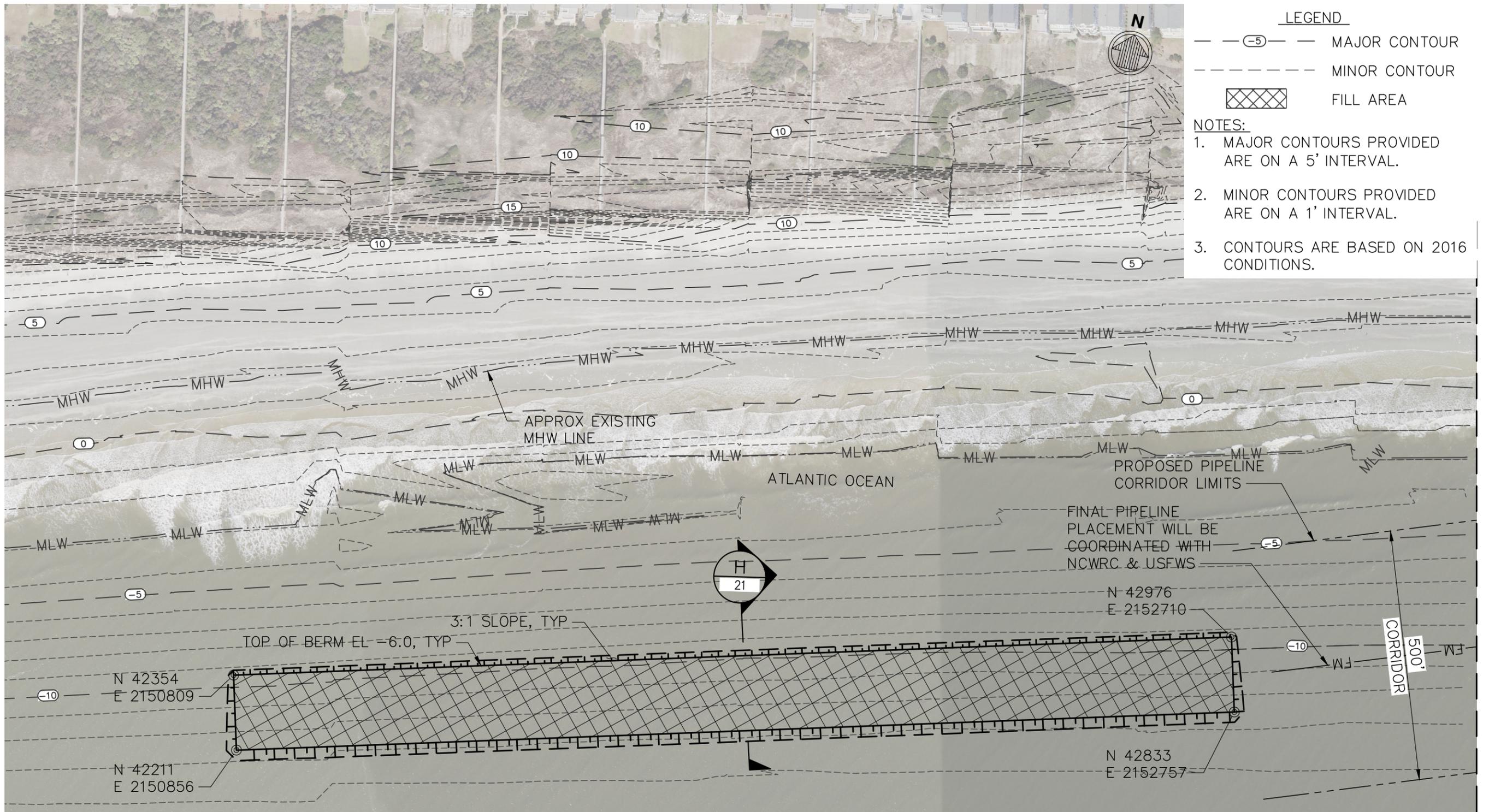
SCALE: 1"=200'

SHEET

17

OF

22



2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF SOUTH JINKS CREEK
THE BAY AREA AND THE FEEDER CHANNEL

DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

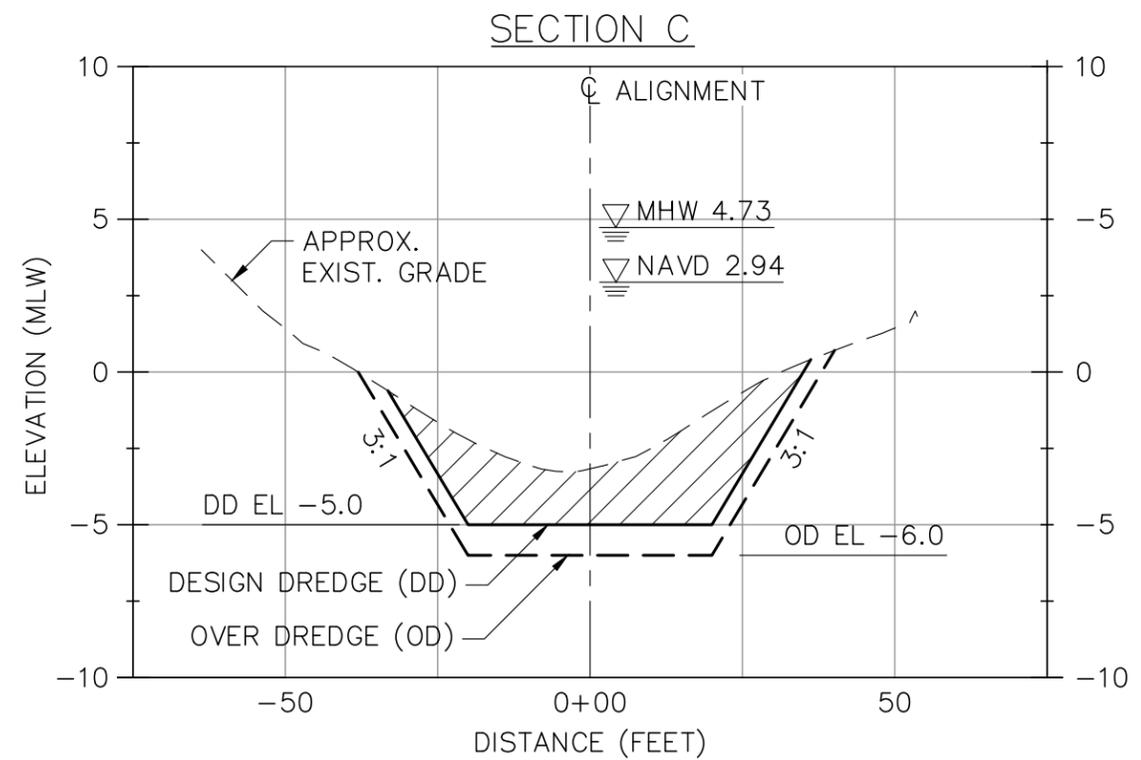
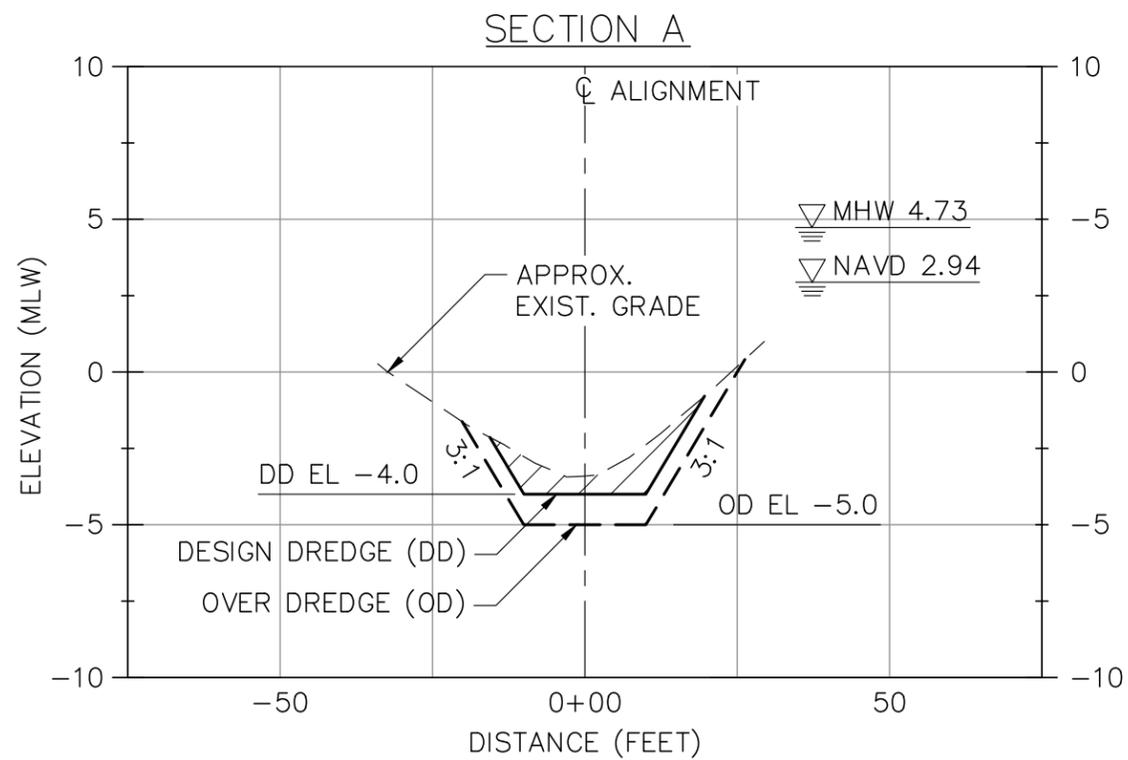
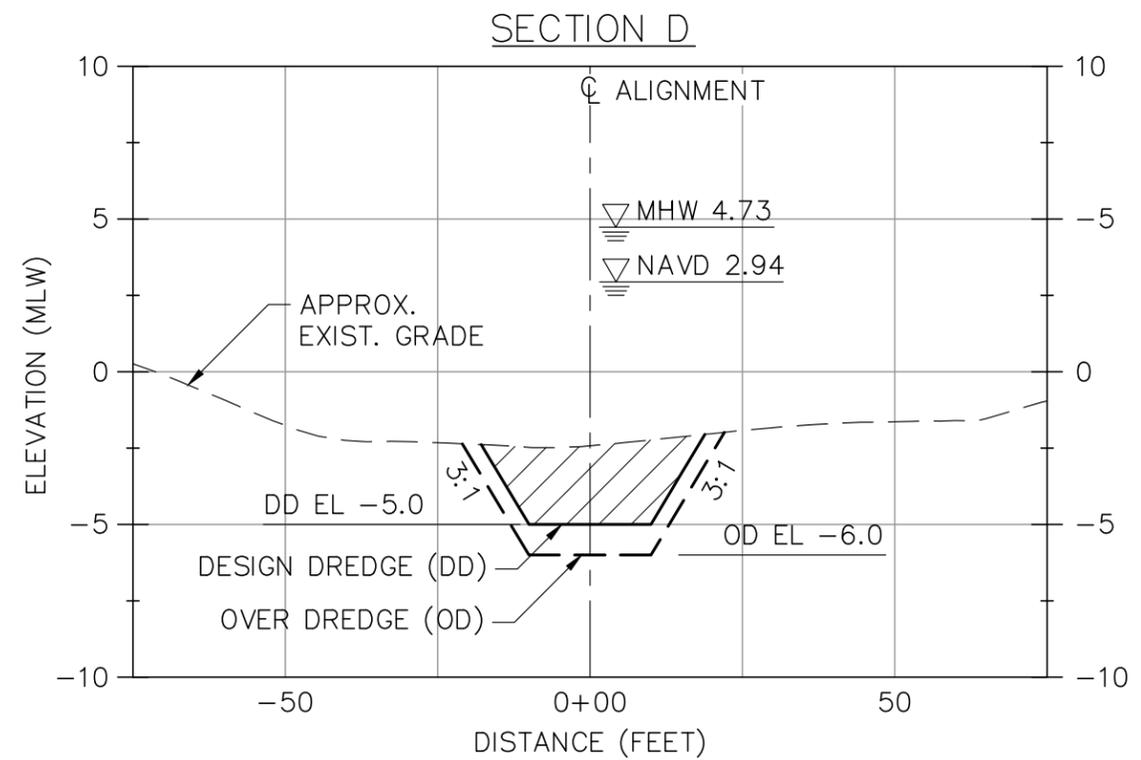
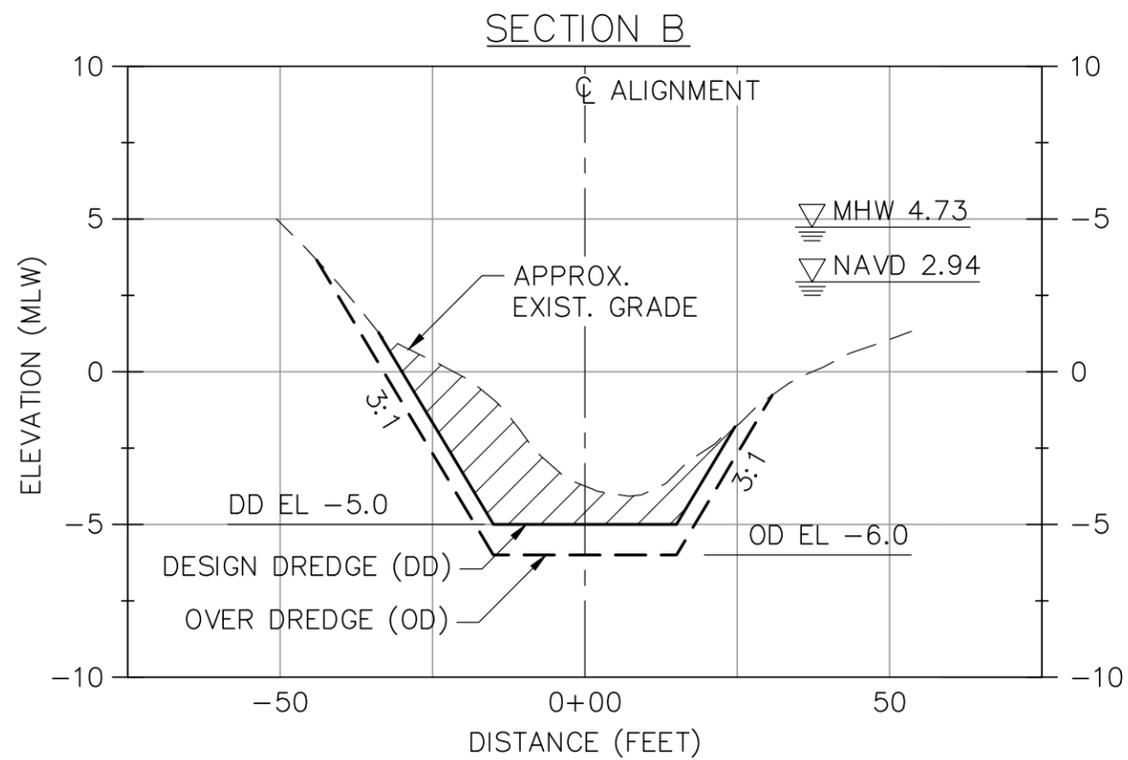
PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:
DREDGE AREA WORK PLAN - SHEET 10 OF 10

200' 0' 100' 200'
SCALE: 1"=200'

SHEET
18
OF
22



PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
**MAINTENANCE DREDGING OF SOUTH JINKS CREEK
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DATUM: MLW

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PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: JULY 22, 2020

SHEET TITLE:

TYPICAL SECTIONS - SHEET 1 OF 3

VERTICAL: 1"=6'

HORIZONTAL: 1"=30'

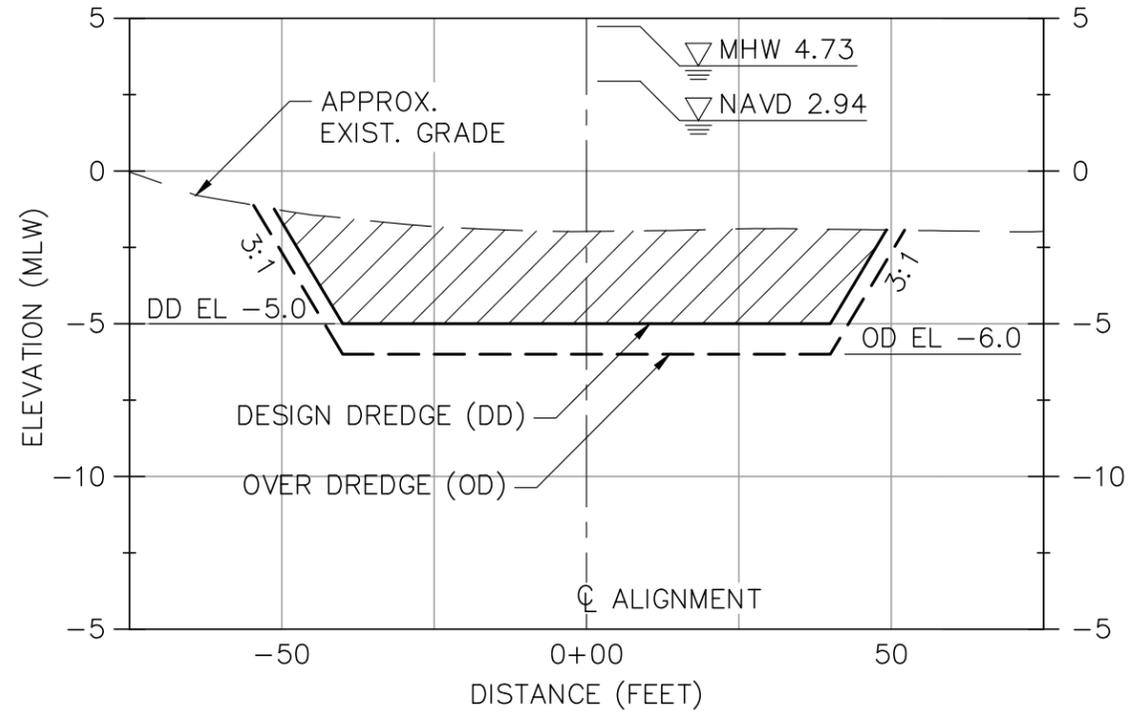
SHEET

19

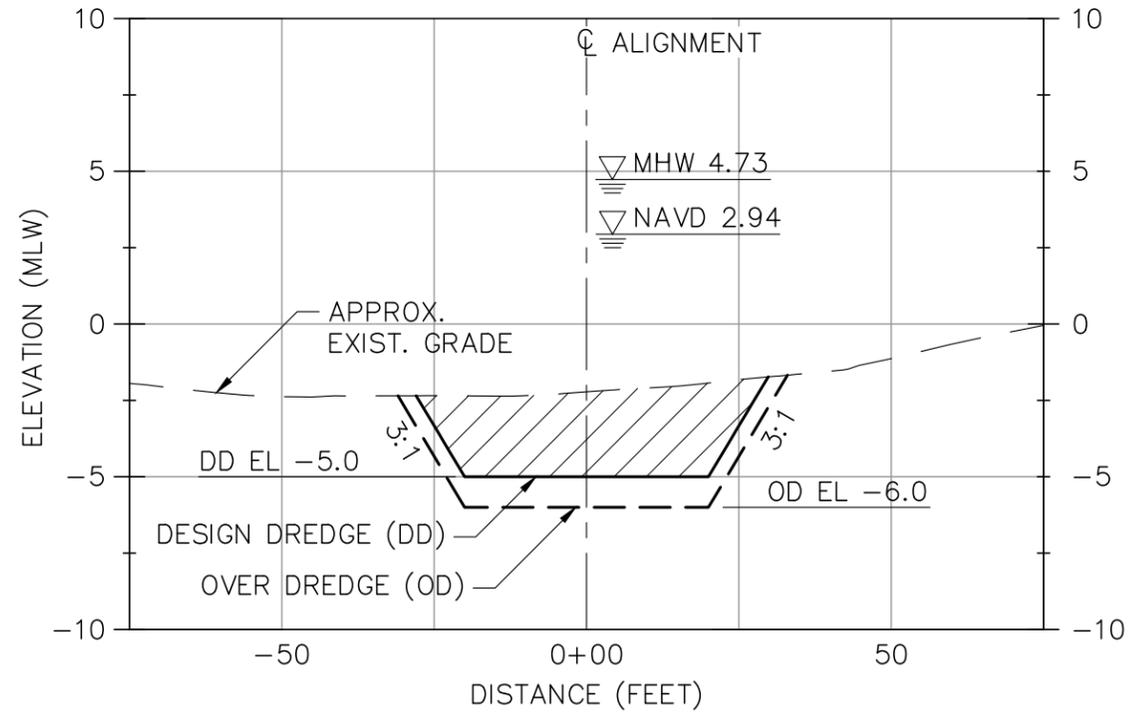
OF

22

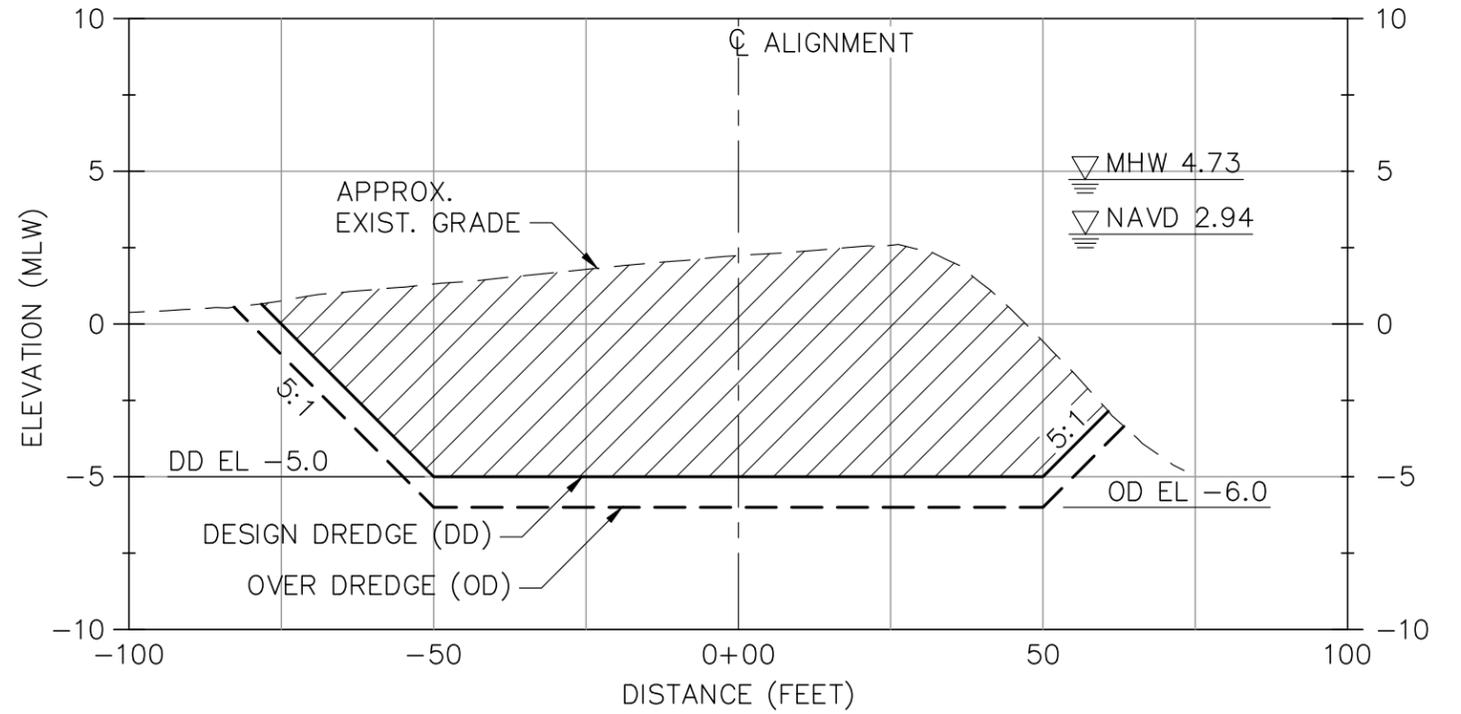
SECTION F



SECTION E



SECTION G



PROJECT TITLE: **TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF SOUTH JINKS CREEK
THE BAY AREA AND THE FEEDER CHANNEL**

DATUM: **MLW**
PREPARED BY: **MOFFATT & NICHOL**

PREPARED FOR: **TOWN OF SUNSET BEACH
NORTH CAROLINA**

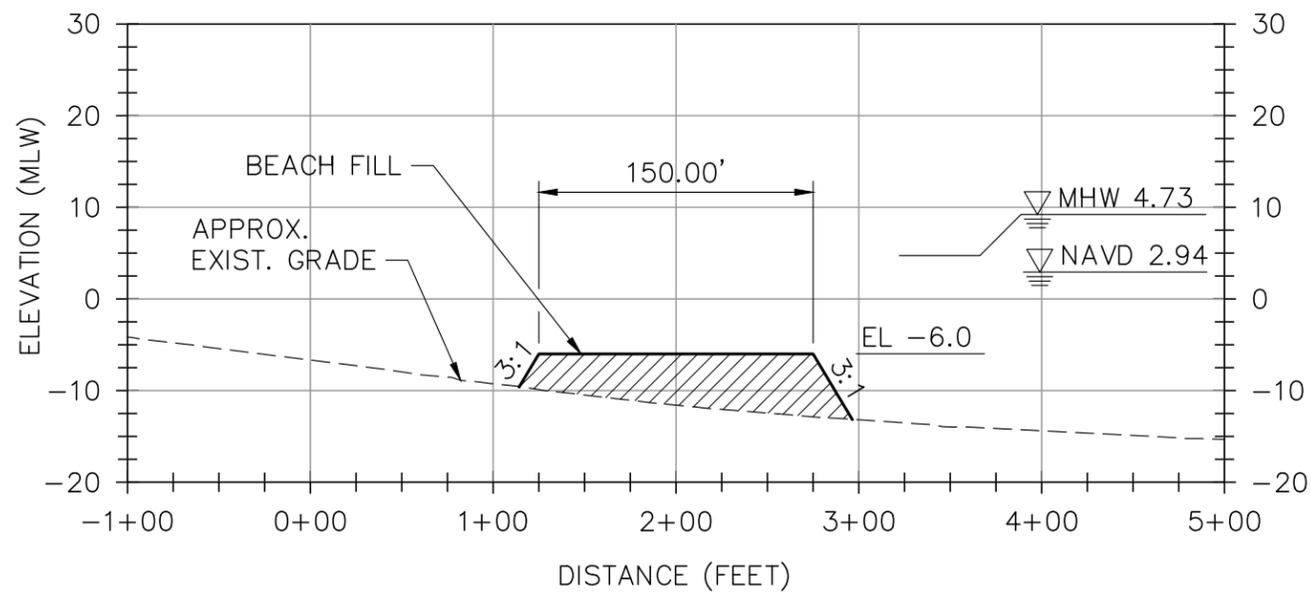
DATE: **JULY 22, 2020**

SHEET TITLE:
TYPICAL SECTIONS - SHEET 2 OF 3



SHEET
20
OF
22

SECTION H



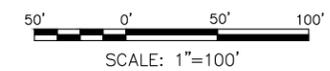
PROJECT TITLE: **TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF SOUTH JINKS CREEK
THE BAY AREA AND THE FEEDER CHANNEL**

DATUM: **MLW**
PREPARED BY: **MOFFATT & NICHOL**

PREPARED FOR: **TOWN OF SUNSET BEACH
NORTH CAROLINA**

DATE: **JULY 22, 2020**

SHEET TITLE:
TYPICAL SECTIONS - SHEET 3 OF 3



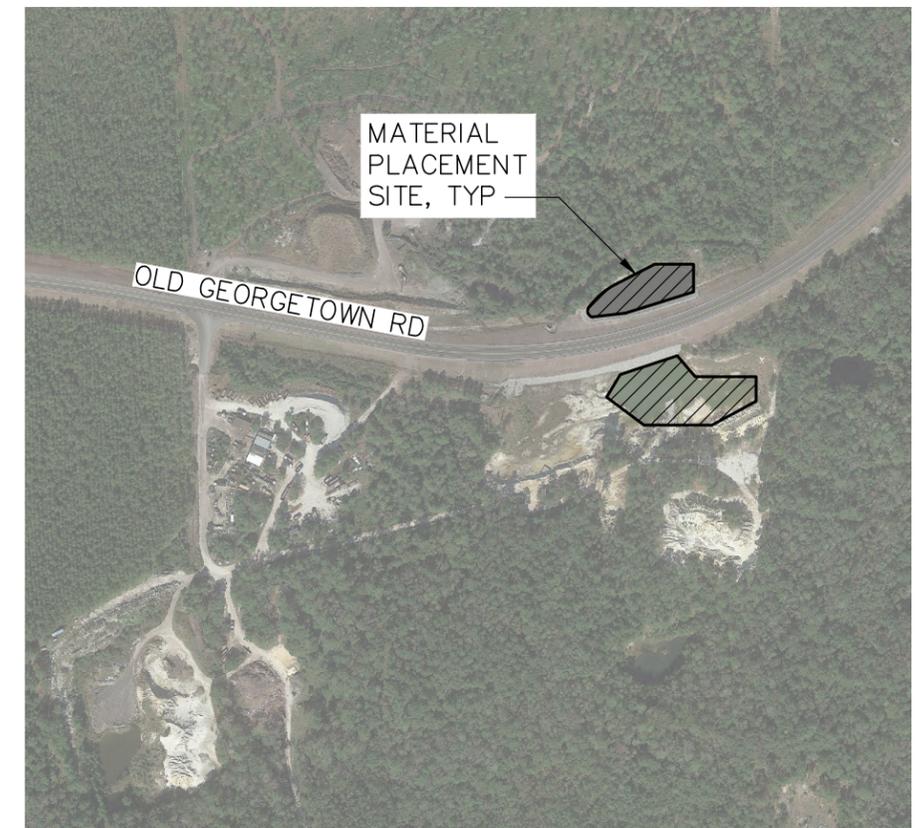
SHEET
21
OF
22



MATERIAL PLACEMENT VICINITY MAP

NOT TO SCALE

2016 AERIALS BY NC ONEMAP



MATERIAL PLACEMENT SITE PLAN

1"=500'

TRANSPORTATION NOTES:

- CONTRACTOR SHALL PREVENT SPILLAGE OF MATERIAL ONTO PUBLIC LANDS, INCLUDING HIGHWAYS, ROADS, AND PRIVATE PROPERTY.
- THE CONTRACTOR SHALL INSPECT THE TRAVEL ROUTE USED TO TRANSPORT MATERIAL TO THE MATERIAL PLACEMENT SITE AFTER EACH USE. ANY SPILLS OR DREDGE SEDIMENT FOUND ALONG THE TRAVEL ROUTE SHALL BE IMMEDIATELY CLEANED AND REMOVED FROM THE ROADWAY AND TRANSPORTED TO THE MATERIAL PLACEMENT SITE.
- THE CONTRACTOR SHALL ABIDE BY ALL NCDOT STANDARDS FOR HAULING SPOIL MATERIAL ALONG THE ROADWAYS.
- THE CONTRACTOR SHALL CLEAN ALL TRUCKS, WHEELS, AND HAULING EQUIPMENT AS NECESSARY TO PREVENT TRACKING MATERIAL ONTO THE ROADWAYS.

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT: MAINTENANCE DREDGING OF SOUTH JINKS CREEK THE BAY AREA AND THE FEEDER CHANNEL
DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH NORTH CAROLINA
DATE: JULY 22, 2020

SHEET TITLE:
MATERIAL PLACEMENT SITE PLAN
 250' 0' 250' 500'
 SCALE: 1"=500'

SHEET
22
OF
22