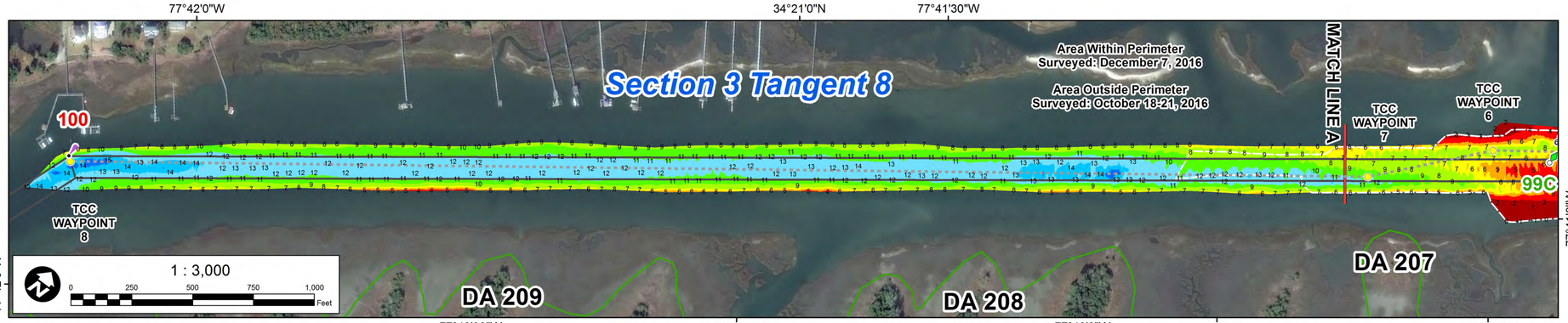
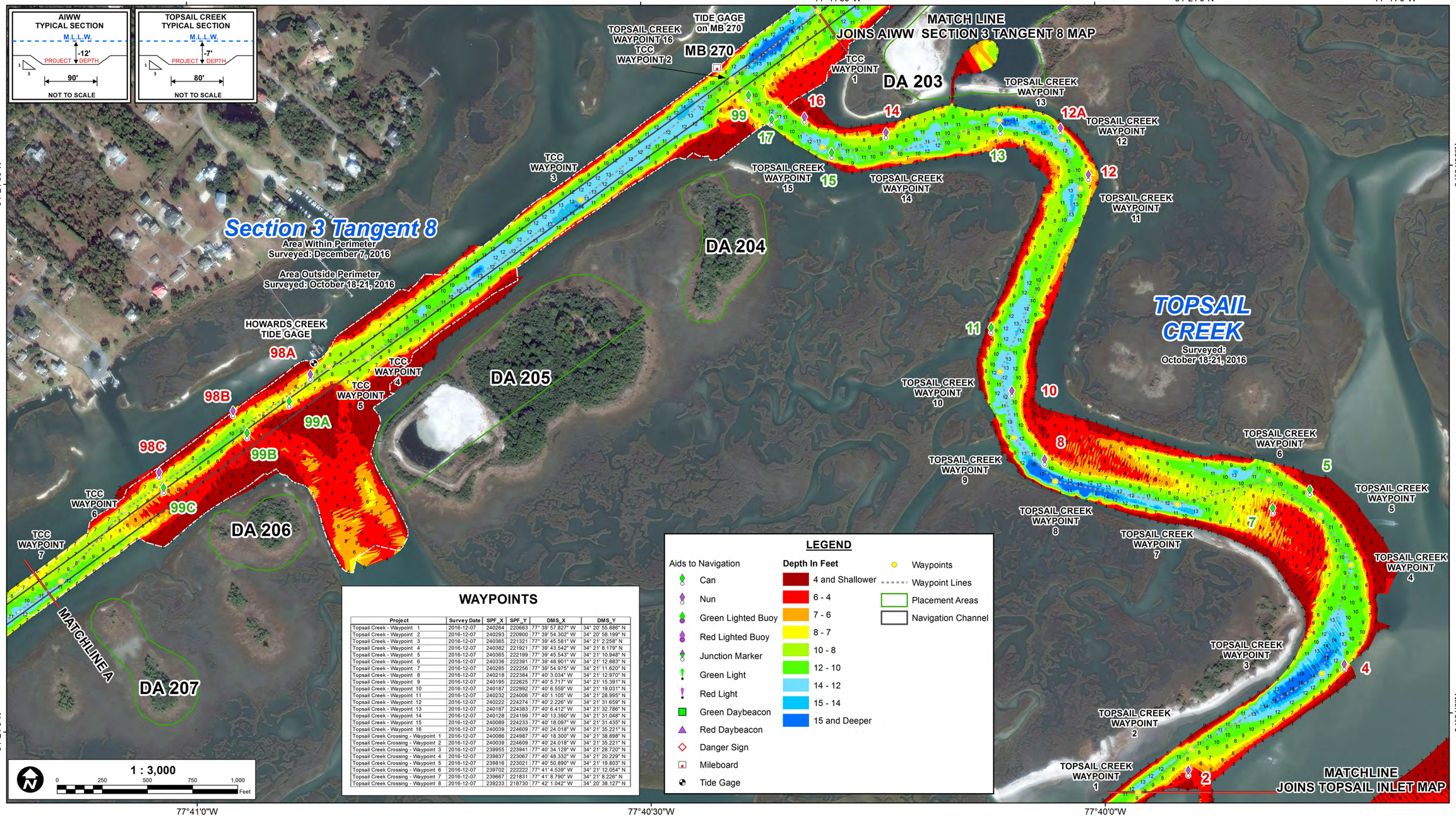
NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BUTLER ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
4. TIDE GAGE LOCATED AT MILE BOARD 270
   USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UN-AVAILABLE AT THE TIME OF SURVEY.
5. THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
6. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL





WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Topsail Creek - Waypoint 1	2016-12-07	240264	220663	77° 39' 57.827" W	34° 20' 55.886" N
Topsail Creek - Waypoint 2	2016-12-07	240293	220900	77° 39' 54.302" W	34° 20' 58.199" N
Topsail Creek - Waypoint 3	2016-12-07	240365	221321	77° 39' 45.581" W	34° 21' 2.258" N
Topsail Creek - Waypoint 4	2016-12-07	240382	221921	77° 39' 43.542" W	34° 21' 8.179" N
Topsail Creek - Waypoint 5	2016-12-07	240365	222199	77° 39' 45.543" W	34° 21' 10.948" N
Topsail Creek - Waypoint 6	2016-12-07	240336	222391	77° 39' 48.901" W	34° 21' 12.883" N
Topsail Creek - Waypoint 7	2016-12-07	240285	222256	77° 39' 54.975" W	34° 21' 11.620" N
Topsail Creek - Waypoint 8	2016-12-07	240218	222384	77° 40' 3.034" W	34° 21' 12.970" N
Topsail Creek - Waypoint 9	2016-12-07	240195	222625	77° 40' 5.717" W	34° 21' 15.391" N
Topsail Creek - Waypoint 10	2016-12-07	240187	222992	77° 40' 6.559" W	34° 21' 19.031" N
Topsail Creek - Waypoint 11	2016-12-07	240232	224006	77° 40' 1.105" W	34° 21' 28.995" N
Topsail Creek - Waypoint 12	2016-12-07	240222	224274	77° 40' 2.226" W	34° 21' 31.659" N
Topsail Creek - Waypoint 13	2016-12-07	240187	224383	77° 40' 6.412" W	34° 21' 32.786" N
Topsail Creek - Waypoint 14	2016-12-07	240128	224199	77° 40' 13.390" W	34° 21' 31.048" N
Topsail Creek - Waypoint 15	2016-12-07	240089	224233	77° 40' 18.097" W	34° 21' 31.435" N
Topsail Creek - Waypoint 16	2016-12-07	240039	224609	77° 40' 24.018" W	34° 21' 35.221" N
Topsail Creek Crossing - Waypoint 1	2016-12-07	240086	224987	77° 40' 18.300" W	34° 21' 38.898" N
Topsail Creek Crossing - Waypoint 2	2016-12-07	240039	224609	77° 40' 24.018" W	34° 21' 35.221" N
Topsail Creek Crossing - Waypoint 3	2016-12-07	239955	223941	77° 40' 34.129" W	34° 21' 28.720" N
Topsail Creek Crossing - Waypoint 4	2016-12-07	239837	223067	77° 40' 48.332" W	34° 21' 20.229" N
Topsail Creek Crossing - Waypoint 5	2016-12-07	239816	223021	77° 40' 50.890" W	34° 21' 19.803" N
Topsail Creek Crossing - Waypoint 6	2016-12-07	239702	222222	77° 41' 4.539" W	34° 21' 12.054" N
Topsail Creek Crossing - Waypoint 7	2016-12-07	239667	221831	77° 41' 8.790" W	34° 21' 8.226" N
Topsail Creek Crossing - Waypoint 8	2016-12-07	239233	218730	77° 42' 1.042" W	34° 20' 38.127" N

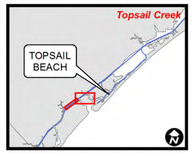
LEGEND

Aids to Navigation
- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

Depth In Feet
- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper

- Waypoints
- Waypoint Lines
- Placement Areas
- Navigation Channel

US Army Corps of Engineers
Wilmington District



SURVEY DATE: 18-21 OCTOBER & 07 DECEMBER 2016
SURVEYED BY: LMT, SRV
MAPPED: K7OPNDJM
PROCESSED BY: K7OPNDJM
MAP DATE: 09 DECEMBER 2016
MAP SCALE: 1:3,000
IMAGERY DATE: 07 DECEMBER 2016
MAP FILE NAME: IN_05_TCC_20161207.MXD

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HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Topsail Creek And Crossing

TOPSAIL ISLAND, NORTH CAROLINA