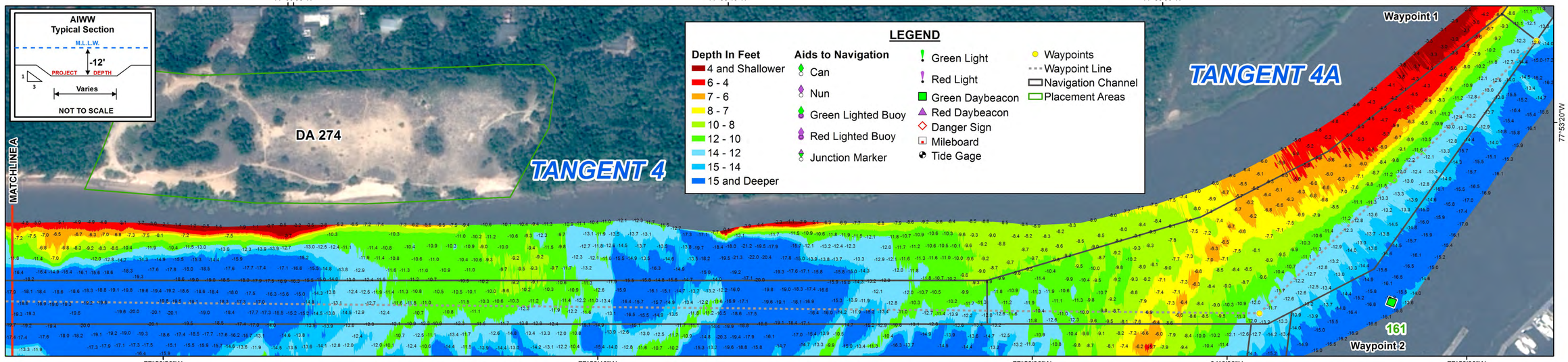
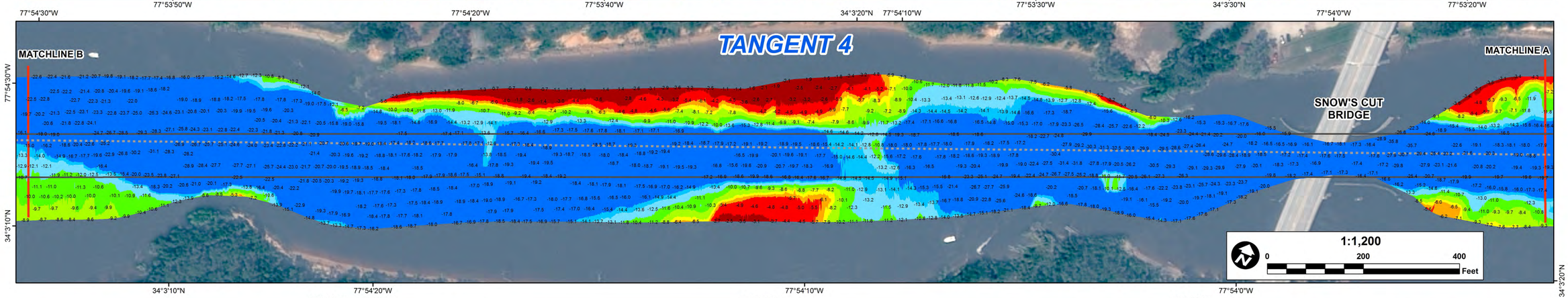
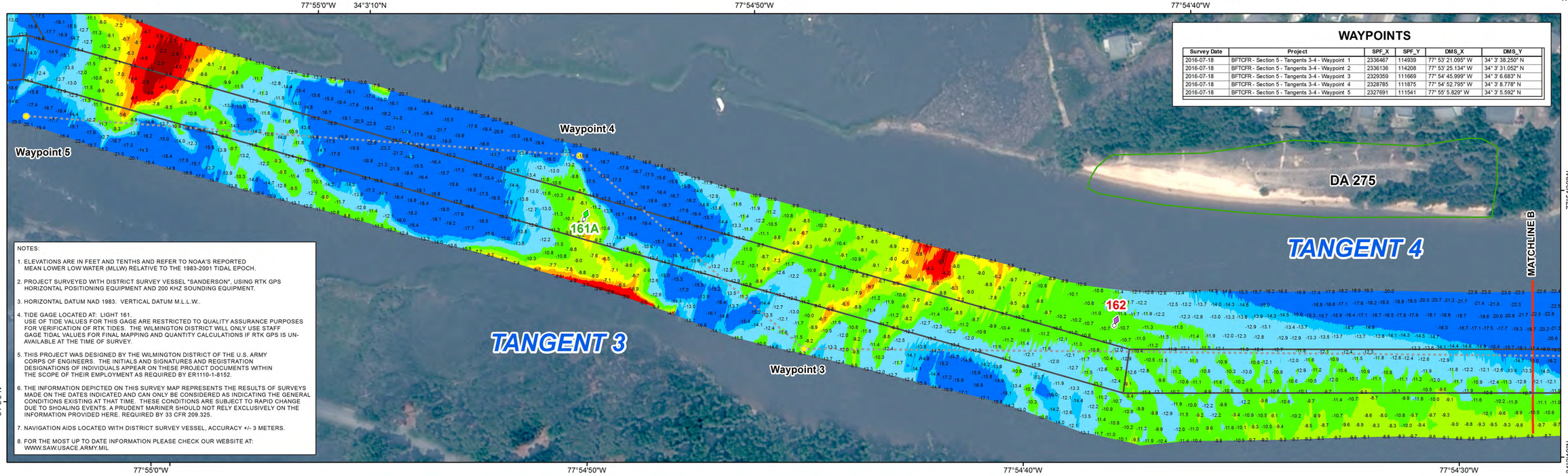






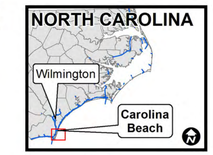
WAYPOINTS

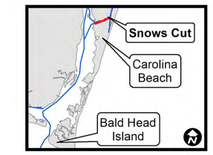
Survey Date	Project	SPF_X	SPF_Y	DMS_X	DMS_Y
2016-07-18	BFTCFR - Section 5 - Tangents 3-4 - Waypoint 1	2336467	114939	77° 53' 21.095" W	34° 3' 38.250" N
2016-07-18	BFTCFR - Section 5 - Tangents 3-4 - Waypoint 2	2336136	114208	77° 53' 25.134" W	34° 3' 31.052" N
2016-07-18	BFTCFR - Section 5 - Tangents 3-4 - Waypoint 3	2329359	111669	77° 54' 45.995" W	34° 3' 6.683" N
2016-07-18	BFTCFR - Section 5 - Tangents 3-4 - Waypoint 4	2328785	111875	77° 54' 52.795" W	34° 3' 8.778" N
2016-07-18	BFTCFR - Section 5 - Tangents 3-4 - Waypoint 5	2327691	111541	77° 55' 5.829" W	34° 3' 5.592" N

NOTES:

1. ELEVATIONS ARE IN FEET AND TENTHS 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 "SANDERSON", 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: LIGHT 161. 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

US Army Corps of Engineers
Wilmington District





Survey Date: July 18-20, 2016
Surveyed By: WJC, SRV
Map Date: July 21, 2016
Mapped By: SGD
Scale: 1:1,200
Imagery Date: May 7, 2016
Map File Name: S5_T03_04_4a_2016-07-18-19-20_cs.mxd
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HYDROGRAPHIC SURVEY

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

Atlantic Intracoastal Waterway
Beaufort to Cape Fear River

SECTION 5 -TANGENTS 3, 4, & 4A
SNOWS CUT

CAROLINA BEACH, NORTH CAROLINA