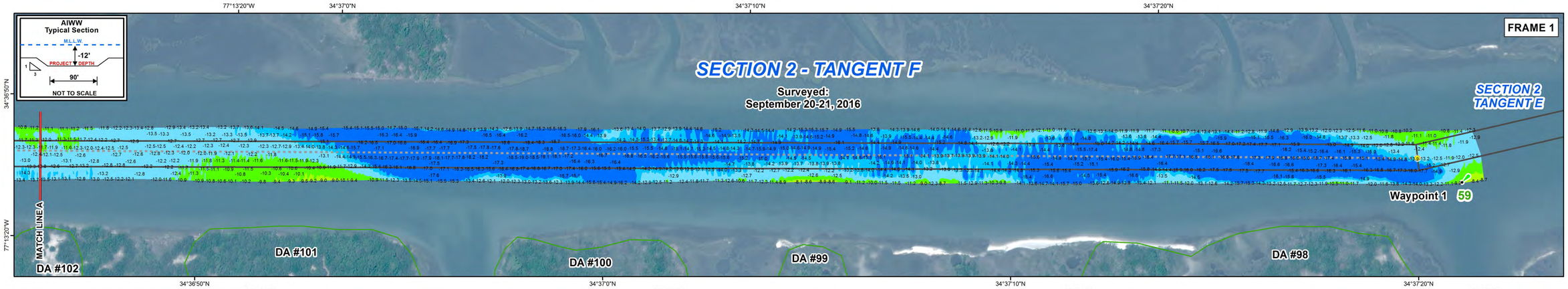
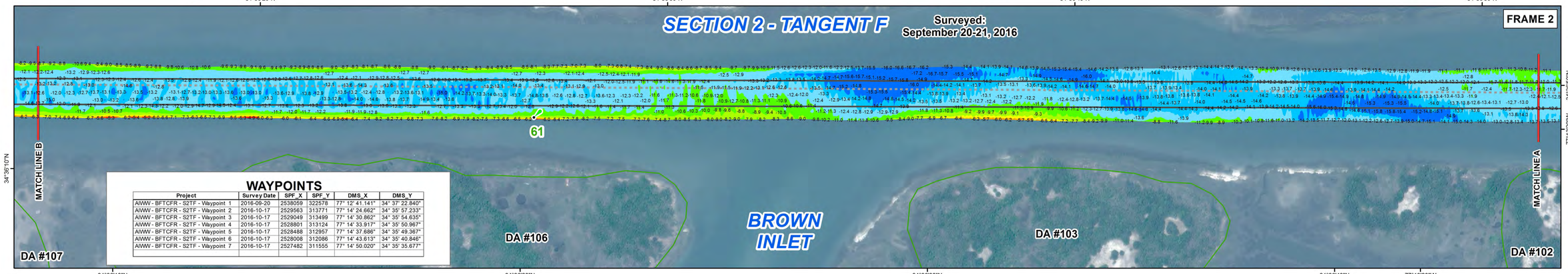
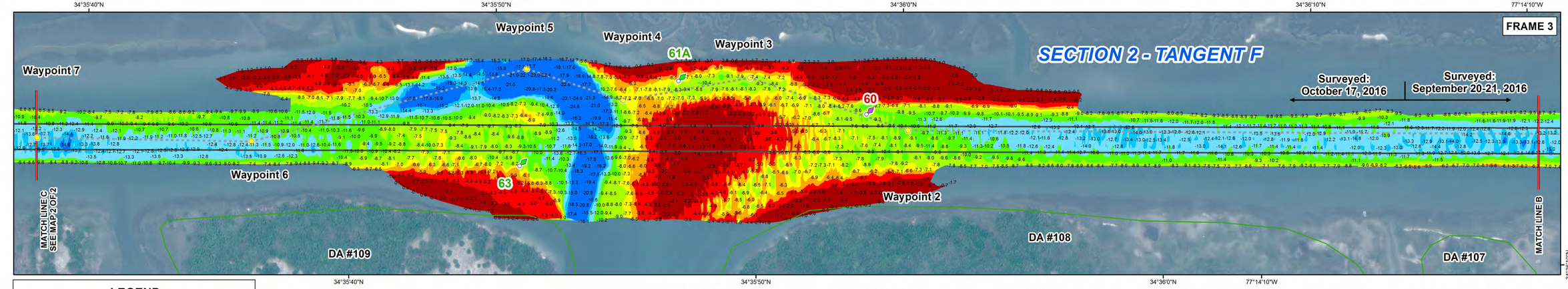




WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW - BFTCFR - S2TF - Waypoint 1	2016-09-20	2538059	322578	77° 12' 41.141"	34° 37' 22.840"
AIWW - BFTCFR - S2TF - Waypoint 2	2016-10-17	2529563	313771	77° 14' 24.662"	34° 35' 57.233"
AIWW - BFTCFR - S2TF - Waypoint 3	2016-10-17	2529049	313499	77° 14' 30.862"	34° 35' 54.635"
AIWW - BFTCFR - S2TF - Waypoint 4	2016-10-17	2528801	313124	77° 14' 33.917"	34° 35' 50.967"
AIWW - BFTCFR - S2TF - Waypoint 5	2016-10-17	2528488	312957	77° 14' 37.686"	34° 35' 49.367"
AIWW - BFTCFR - S2TF - Waypoint 6	2016-10-17	2528008	312086	77° 14' 43.613"	34° 35' 40.846"
AIWW - BFTCFR - S2TF - Waypoint 7	2016-10-17	2527482	311555	77° 14' 50.020"	34° 35' 35.677"



LEGEND

Aids to Navigation

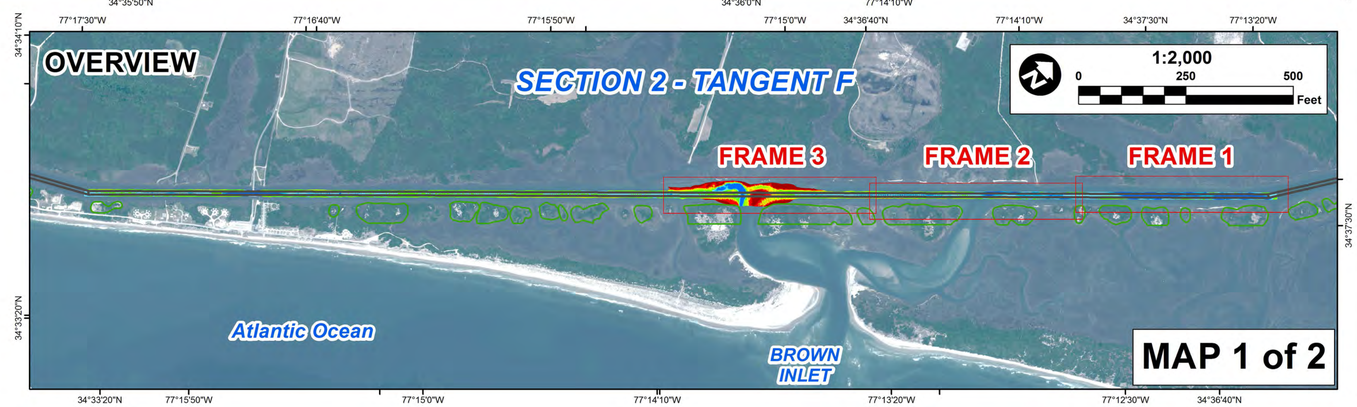
- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

Depth In Feet

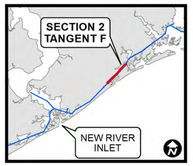
- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Navigation Channel
- Placement Area

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 "J. 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: NOR CAL DOLPHIN AT CEDAR BUSH CUT. 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: SEPTEMBER 20-21 & OCTOBER 17, 2016
MAP DATE: OCTOBER 18, 2016
SURVEYED BY: LMT, SRV
MAPPED BY: SGD, DJM
SCALE: 1:2,000
IMAGERY DATE: APRIL 25, 2016
FILE NAME: BFTCFR_S2TF_2016-10-17_CS_1-OF-2.MXD

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HYDROGRAPHIC SURVEY

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

Atlantic Intracoastal Waterway
Beaufort, NC to Cape Fear River, NC

Section 2 - Tangent F

CAMP LEJEUNE, NORTH CAROLINA