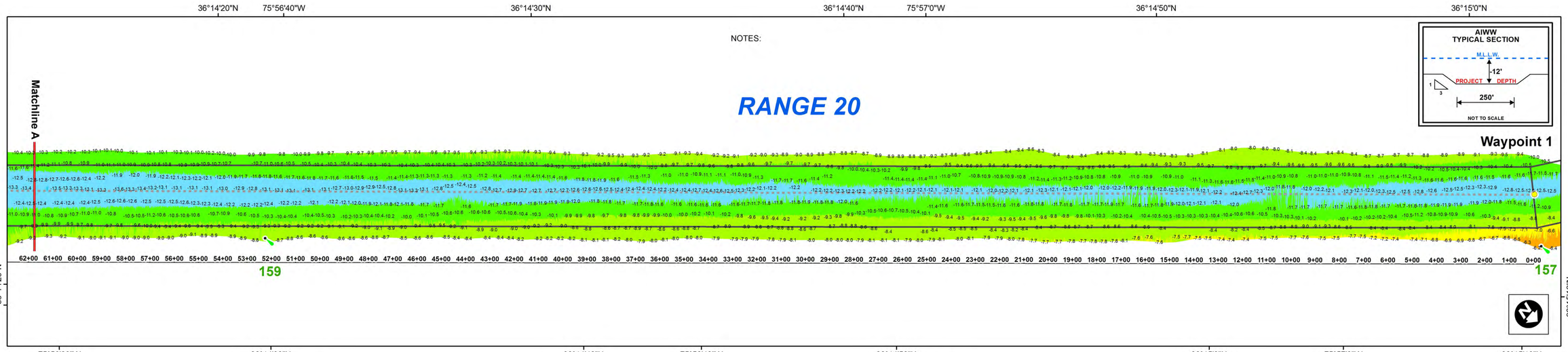
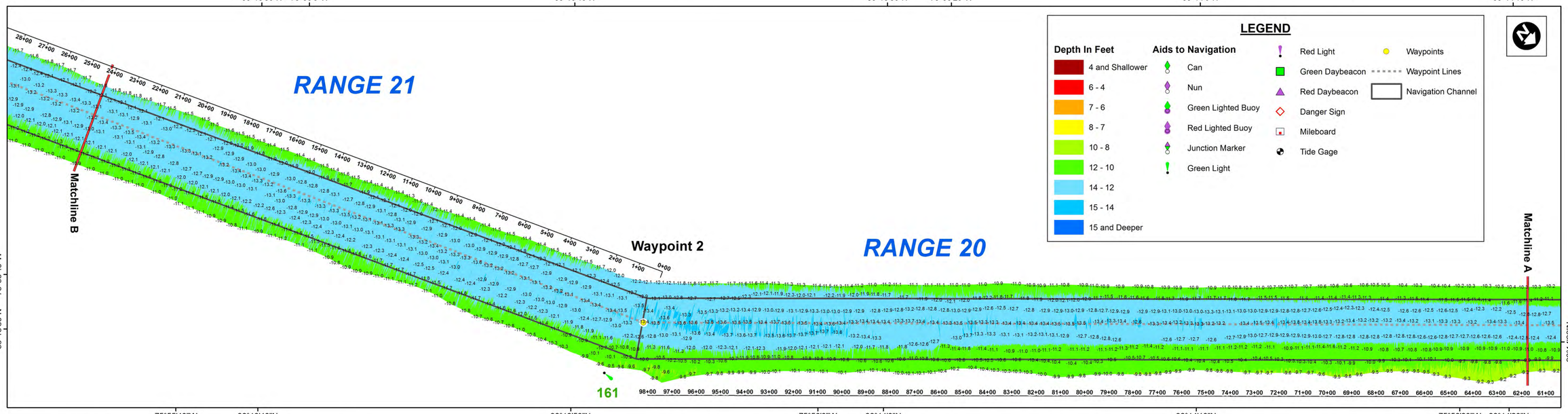
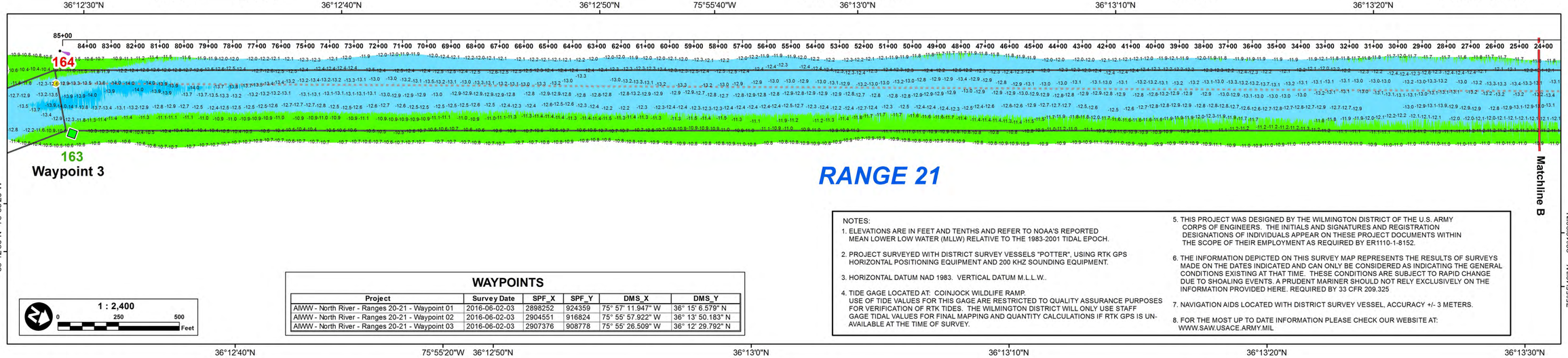
NOTES:



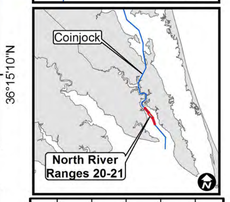




LEGEND

Depth In Feet	Aids to Navigation		
4 and Shallower	Can	Red Light	Waypoints
6 - 4	Nun	Green Daybeacon	Waypoint Lines
7 - 6	Green Lighted Buoy	Red Daybeacon	Navigation Channel
8 - 7	Red Lighted Buoy	Danger Sign	
10 - 8	Junction Marker	Mileboard	
12 - 10	Green Light	Tide Gage	
14 - 12			
15 - 14			
15 and Deeper			

US Army Corps of Engineers
Wilmington District



Surveyed By: BRJ, DCH
Survey Dates: June 2, 2016
Mapped By: SGD
Map Date: June 9, 2016
Map Scale: 1:2,400
Map File Name: NorthRiver_20-21_2016-06-02_cs.mxd

1 : 2,400
0 250 500 Feet

WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AIWW - North River - Ranges 20-21 - Waypoint 01	2016-06-02-03	2898252	924359	75° 57' 11.947" W	36° 15' 6.579" N
AIWW - North River - Ranges 20-21 - Waypoint 02	2016-06-02-03	2904551	916824	75° 55' 57.922" W	36° 13' 50.183" N
AIWW - North River - Ranges 20-21 - Waypoint 03	2016-06-02-03	2907376	908778	75° 55' 26.509" W	36° 12' 29.792" 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 VESSELS "POTTER", 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: COINJOCK WILDLIFE RAMP. 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

HYDROGRAPHIC SURVEY

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

ATLANTIC INTRACOASTAL WATERWAY
NORFOLK TO BEAUFORT

NORTH RIVER
RANGES 20 & 21

North River, North Carolina