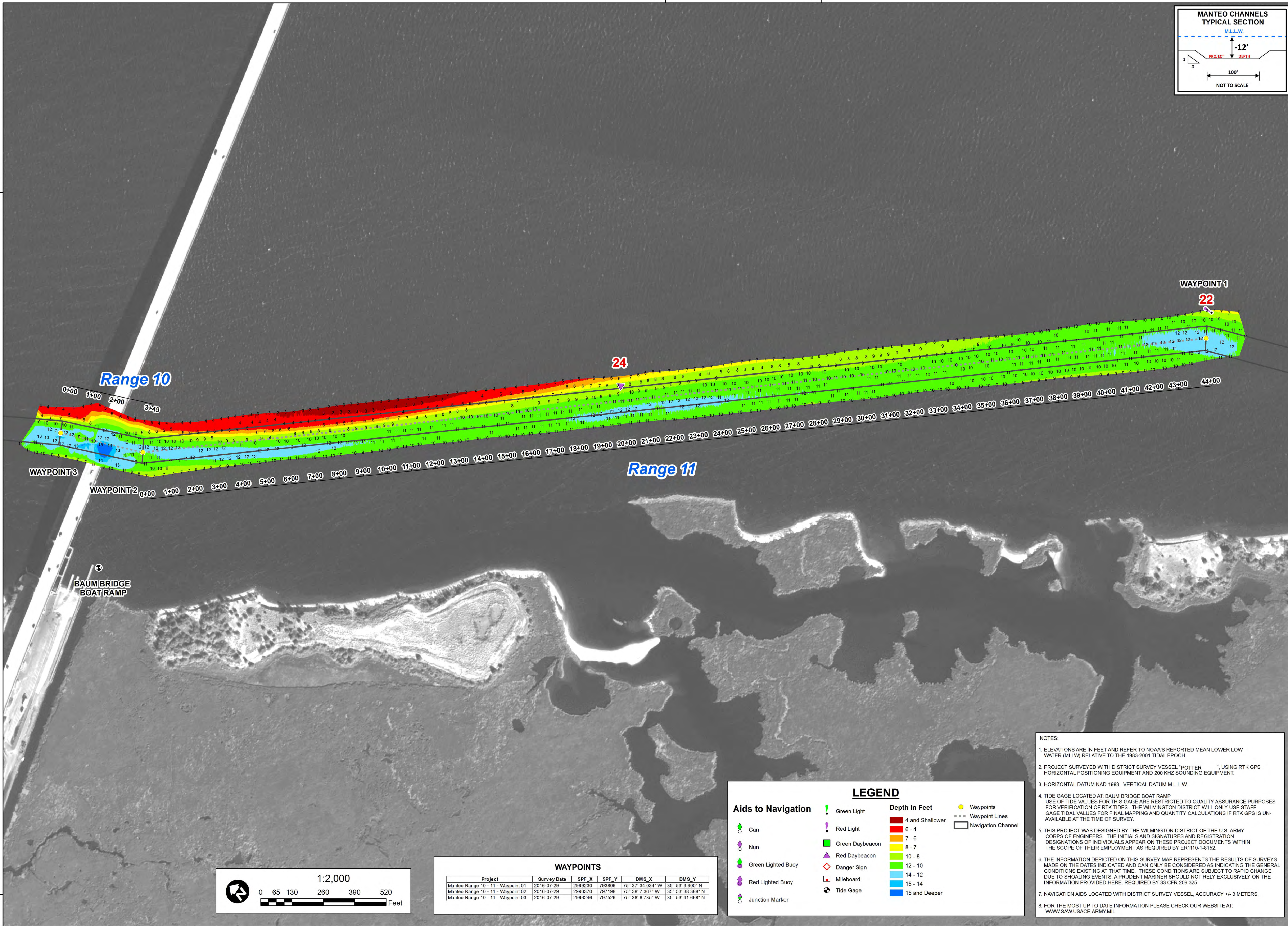
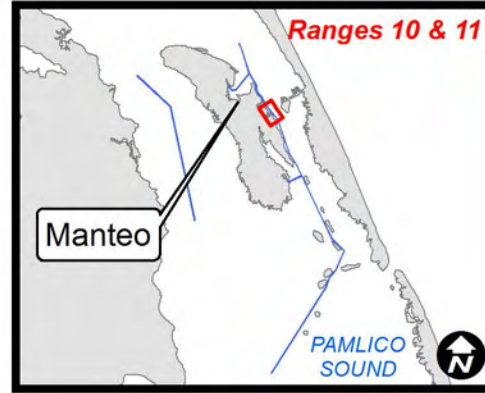
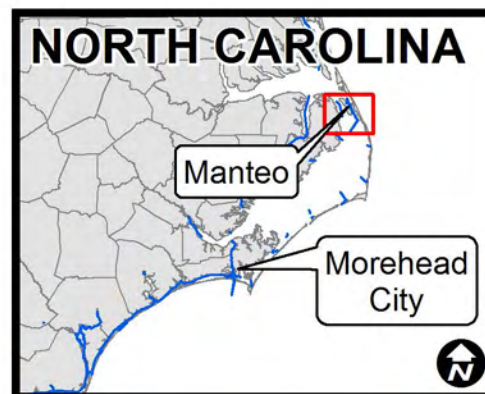
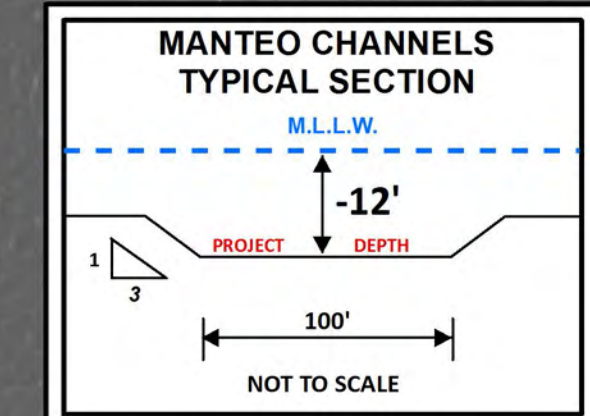


35°53'30"N 75°37'30"W



SURVEYED BY: SSS, BRJ
MAPPED: K7OPNSMG
SURVEY DATE: 29 JULY 2016
MAP DATE: 01 AUGUST 2016
MAP SCALE: 1:2,000
IMAGERY DATE: 18 NOVEMBER 2015
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MAP FILE NAME: MN_15_R11_20160729.MXD

**LEGEND**

Green Light	4 and Shallower	Waypoints
Red Light	6 - 4	Waypoint Lines
Green Daybeacon	7 - 6	Navigation Channel
Red Daybeacon	8 - 7	
Green Lighted Buoy	10 - 8	
Red Lighted Buoy	12 - 10	
Junction Marker	14 - 12	
	15 - 14	
	15 and Deeper	

**WAYPOINTS**

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Manteo Range 10 - 11 - Waypoint 01	2016-07-29	2999230	783806	75° 37' 34.034" W	35° 53' 3.900" N
Manteo Range 10 - 11 - Waypoint 02	2016-07-29	2996370	787198	75° 38' 7.367" W	35° 53' 38.388" N
Manteo Range 10 - 11 - Waypoint 03	2016-07-29	2996246	787526	75° 38' 8.735" W	35° 53' 41.668" N

**NOTES:**

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "POTTER" USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT: BAUMBRIDGE BOAT 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 UNAVAILABLE AT THE TIME OF SURVEY.
- 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.
- 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.
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- 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

**MANTEO CHANNELS  
Ranges 10 & 11**

MANTEO, NORTH CAROLINA

75°38'30"W

75°37'30"W

75°38'30"W

35°53'0"N

75°38'0"W