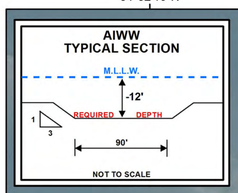
34°32'10"N 34°32'20"N 34°32'30"N 34°32'40"N 34°32'50"N

77°21'40"W 77°21'30"W 77°21'20"W 77°21'10"W 77°21'0"W




SWAN POINT

50+20.83 45+00 40+00 35+00 30+00 25+00 20+00 15+00 10+00 5+00 0+00

SECTION 3
TANGENT 2

Waypoint 3

Waypoint 2

Waypoint 1

SECTION 2
TANGENT J

DA 144

DA 143

SECTION 3 - TANGENT 1

## 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 Areas

NOTES:

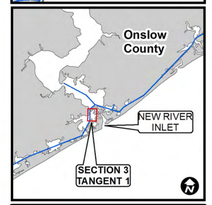
1. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "J. BUTLER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..
4. TIDE GAGE LOCATED AT: DAYBEACON 76.
   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

| Survey Date | Project | SPF_X | SPF_Y | DMS_X | DMS_Y |
|---|---|---|---|---|---|
| 2016-01-12 | AIWW - Section 3 - Tangent 1 - Waypoint 01 | 2493967 | 295008 | 77° 21' 34.139" W | 34° 32' 57.686" N |
| 2016-01-12 | AIWW - Section 3 - Tangent 1 - Waypoint 02 | 2493956 | 292660 | 77° 21' 34.732" W | 34° 32' 34.471" N |
| 2016-01-12 | AIWW - Section 3 - Tangent 1 - Waypoint 03 | 2493882 | 289974 | 77° 21' 36.151" W | 34° 32' 7.912" N |

1:2,000
0 250 500 Feet

**US Army Corps of Engineers**
**Wilmington District**




Survey Date: January 12, 2016
Map Date: January 15, 2016
Surveyed By: WWW, MAS
Mapped By: SGD
Scale: 1:2,000
Imagery Date: December 20, 2015
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File Name: AIWW_S3T1_2015-01-12_cs.mxd

**HYDROGRAPHIC SURVEY**

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

ATLANTIC INTRACOASTAL WATERWAY
BEAUFORT TO CAPE FEAR RIVER
SECTION 3 - TANGENT 1

# SECTION 3 - TANGENT 1

JACKSONVILLE, NORTH CAROLINA