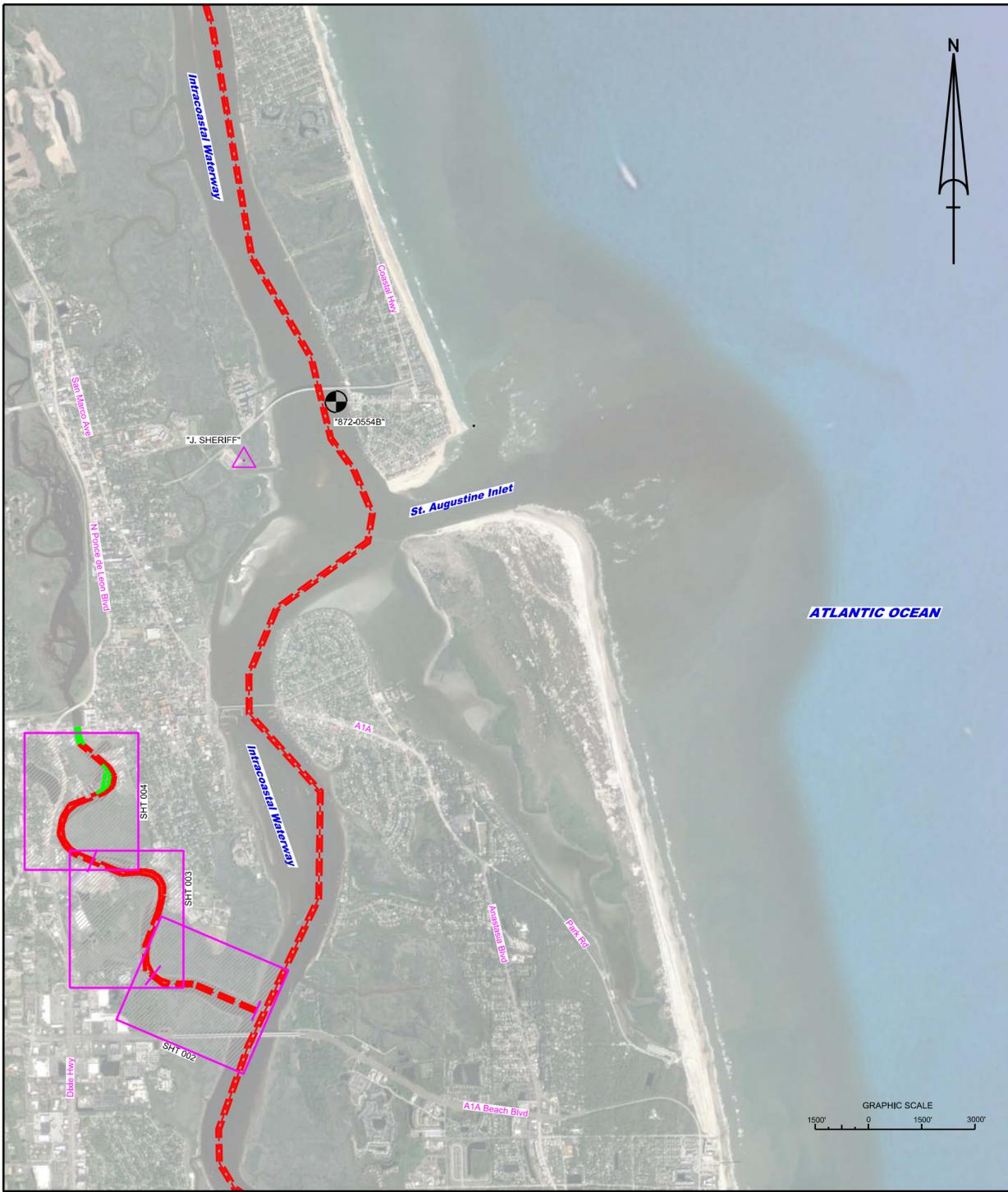


# SAN SEBASTIAN RIVER ST. JOHNS COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY19 10-FOOT PROJECT



**SURVEY NOTES**

1. REFER TO SURVEY NO. 19-278.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARKS ASSOCIATED WITH THE TIDE GAUGE SITE SPECIFIED BELOW:  
  
NOAA TIDAL STATION 872-0554 B, VILANO BEACH (ICWW) (PID: DL5712)
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL PRODUCED USING NOAA VDATUM. KTD FILE NAME IS: CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER\_01FEB2011.KTD.
4. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:  
  
REFERENCE BASE LOCATED AT "J. SHERIFF" (PID: BBCJ50)  
  
TIDE STAFF LOCATED AT "872 0554 B TIDAL" (PID: DL5712)
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER 835 DUAL-FREQUENCY SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ . ALL DEPTHS SHOWN ARE IN HIGH FREQUENCY.  
  

VESSEL	DATE OF SURVEY	CUT
SB-50	01 NOV 2019	CUTS Q THRU V
SB-50	05 NOV 2019	CUTS A THRU Q
9. AIDS TO NAVIGATION WERE COLLECTED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013.

LEGEND	
▲	MONUMENT
●	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
●	RED LIGHTED BUOY
●	GREEN LIGHTED BUOY
○	CAN BUOY
○	NUN BUOY
⊕	TIDE STAFF
8	PROJECT DEPTH

US Army Corps of Engineers  
Jacksonville District  
SAFETY ON THIS JOB  
DEPENDS ON YOU

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DESIGNED BY: WRM  
DRAWN BY: WRM  
CHECKED BY: GHR  
DATE: NOV 2019

PROJECT: ST. JOHNS COUNTY, FLORIDA  
HYDROGRAPHIC EXAM SURVEY FY19  
INDEX, LOCATION AND VICINITY

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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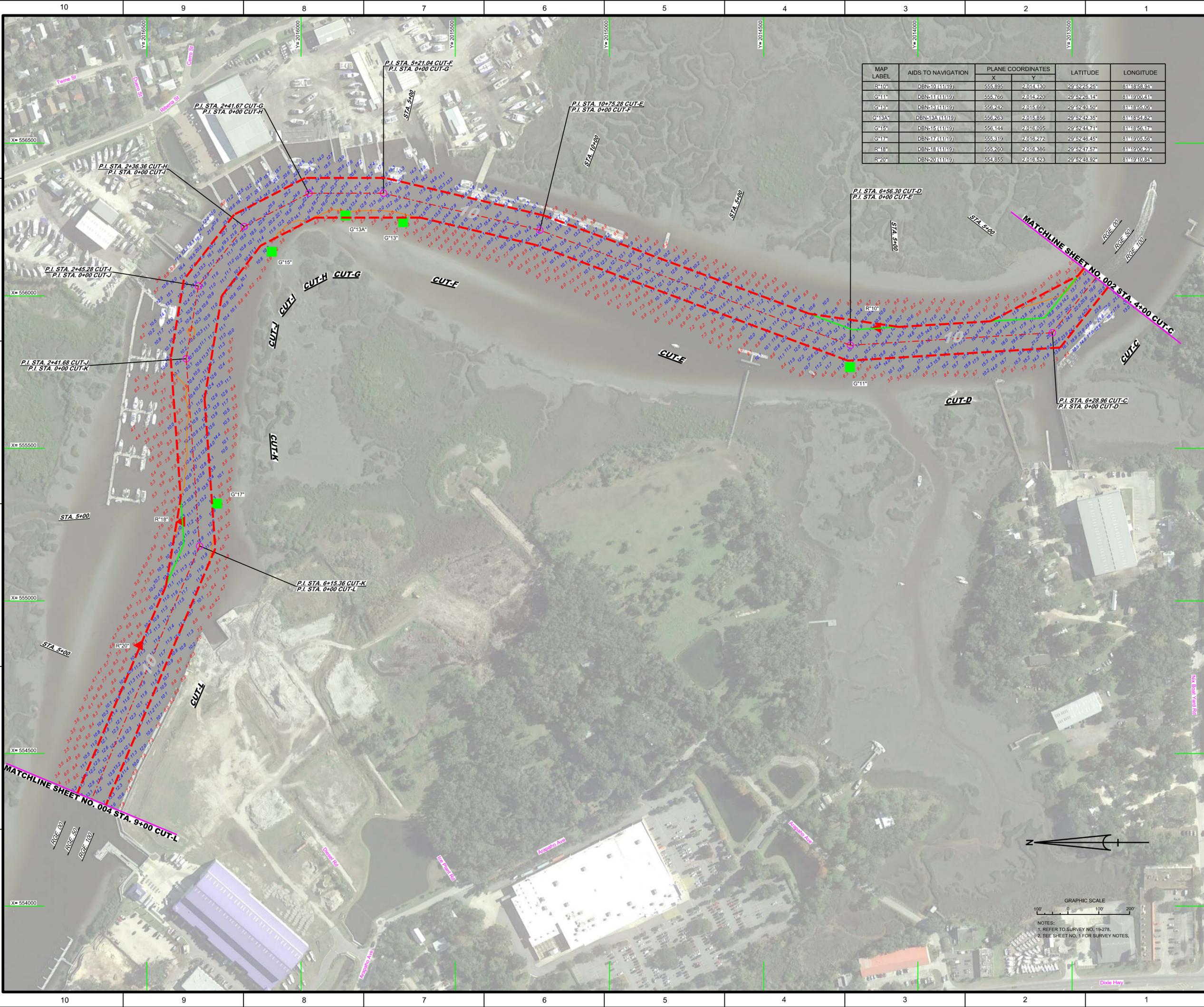
Scale: AS SHOWN

Drawing no.

## 1 / 4

SHEET 01 OF 11





MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R*10*	DBN-10 (11/19)	555,895	2,014,130	29°52'25.25"	81°18'58.94"
G*11*	DBN-11 (11/19)	555,766	2,014,220	29°52'26.14"	81°19'00.41"
G*13*	DBN-13 (11/19)	556,242	2,015,669	29°52'40.50"	81°18'55.06"
G*13A*	DBN-13A (11/19)	556,263	2,015,856	29°52'42.35"	81°18'54.82"
G*15*	DBN-15 (11/19)	556,144	2,016,095	29°52'44.71"	81°18'56.17"
G*17*	DBN-17 (11/19)	555,319	2,016,272	29°52'48.45"	81°19'05.56"
R*18*	DBN-18 (11/19)	555,260	2,016,386	29°52'47.57"	81°19'08.23"
R*20*	DBN-20 (11/19)	554,855	2,016,523	29°52'48.92"	81°19'10.84"



US Army Corps of Engineers  
Jacksonville District

SAFETY ON THIS JOB  
DEPENDS ON YOU

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DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

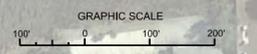
Drawn by: **WRM**  
 Checked by: **WRM**  
 Date: **NOV 2019**

**HYDROGRAPHIC EXAM SURVEY FY19**  
**10-FOOT PROJECT**  
 STA. 4+00 CUT-C THRU STA. 9+00 CUT-L  
**PLAN**

Scale: AS SHOWN

Drawing no. **3**

SHEET 03 OF 04



NOTES:  
 1. REFER TO SURVEY NO. 19-278.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

