

ALAFIA RIVER (TAMPA HARBOR ZONE 8) HILLSBOROUGH COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY19 33 AND 34-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 19-1433.
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). A MODIFIED VERSION OF NOAA'S VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARKS BELOW:

NOAA TIDAL STATION 872-6657, DAVIS ISLAND, HILLSBOROUGH BAY FOR ALL CUTS (PID: AG6024)
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL NAMED "SPC-FL-WEST-2010-12-07.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 WEST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.

REFERENCE BASE LOCATED AT "Q-261" (NGS PID: AG6024)
TIDE STAFF LOCATED FROM "Q-261" (NGS PID: AG6024)
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

VESSEL: SB-52 DATE OF SURVEY: 10-12 JUL 2019 CUT: E.C. AND TURNING BASIN
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835 SMARTSOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN ARE IN LOW FREQUENCY.
9. AIDS TO NAVIGATION WERE LOCATED 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.

SURVEY ZONE	CUTS
8	ALAFIA RIVER ENTRANCE CHANNEL

LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

US Army Corps of Engineers
Jacksonville District

**SAFETY ON THIS JOB
DEPENDS ON YOU**

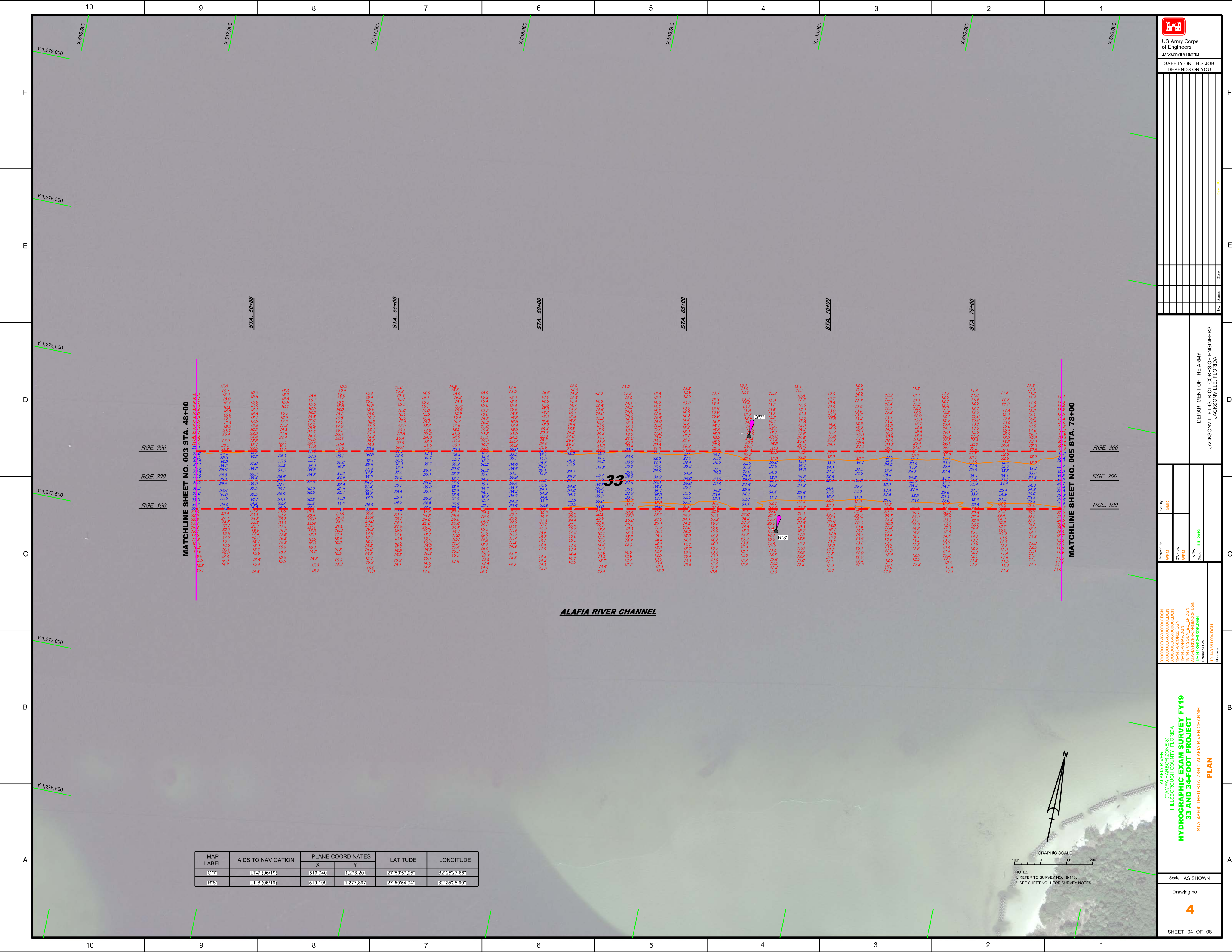
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Alafia River
(Tampa Harbor Zone 8)
Hillsborough County, Florida
**HYDROGRAPHIC EXAM SURVEY FY19
33 AND 34-FOOT PROJECT**
INDEX, LOCATION AND VICINITY MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 08

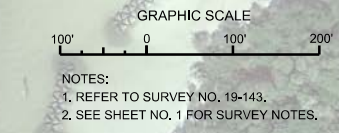


MATCHLINE SHEET NO. 003 STA. 48+00

MATCHLINE SHEET NO. 005 STA. 79+00

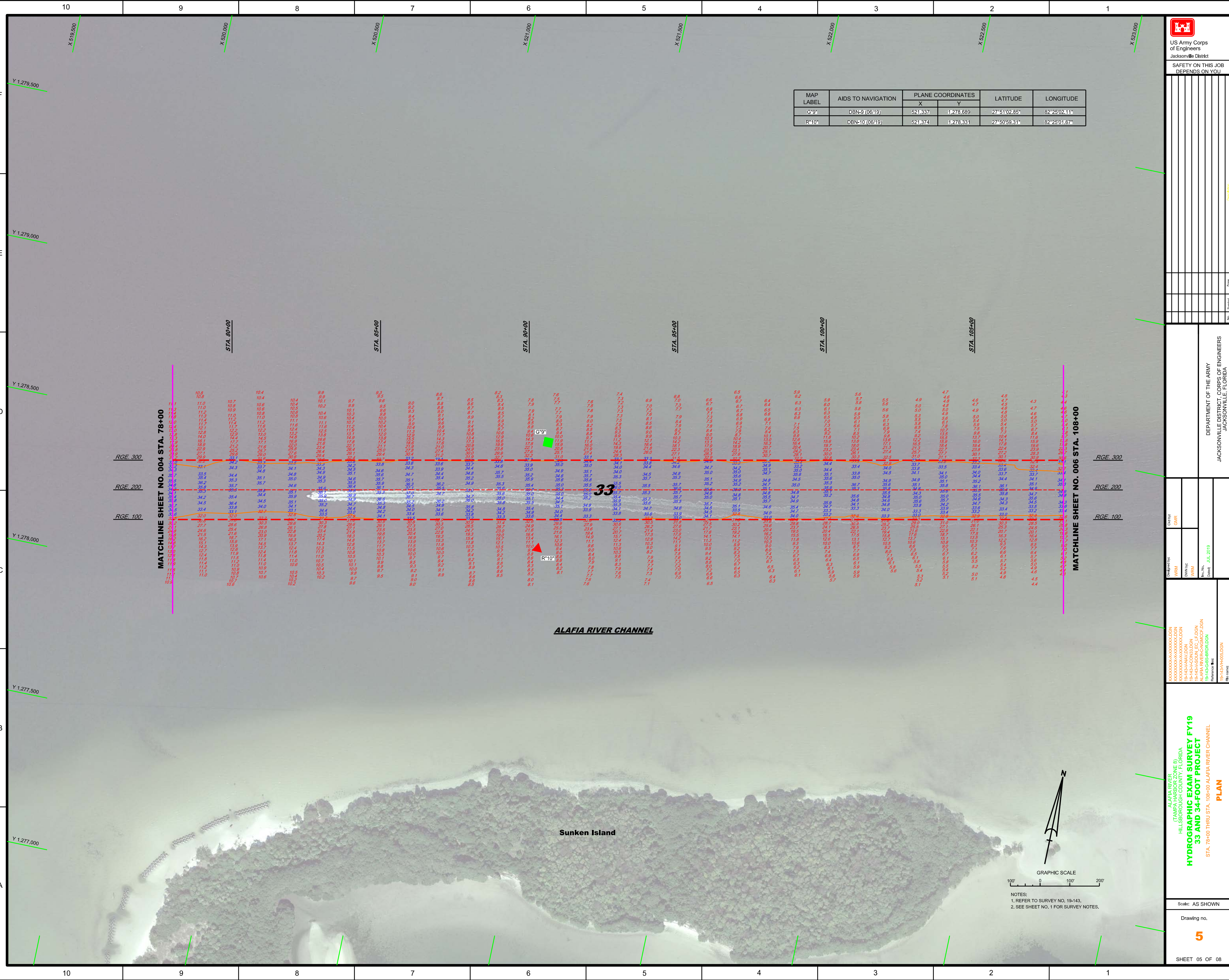
ALAFIA RIVER CHANNEL

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G-7*	LT-7 (06/19)	519,040	1,278,201	27°50'57.95"	82°25'27.68"
R-8*	LT-8 (06/19)	519,199	1,277,897	27°50'54.94"	82°25'25.90"



NOTES:
1. REFER TO SURVEY NO. 18-143,
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*9*	DBN-9 (06/19)	521.337	1,278.889	27°51'02.85"	82°25'02.11"
R*10*	DBN-10 (06/19)	521.374	1,278.331	27°50'59.31"	82°25'01.67"



MATCHLINE SHEET NO. 004 STA. 78+00

MATCHLINE SHEET NO. 006 STA. 108+00

ALAFIA RIVER CHANNEL

Sunken Island



NOTES:
1. REFER TO SURVEY NO. 19-143.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

Zone	Zone	Zone	Zone	Zone	Zone	Zone	Zone	Zone


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

Designed by: WRM
Checked by: GHR
Drawn by: WRM
Scale: AS SHOWN
Date: JUL 2019
Project: ALAFIA RIVER CHANNEL
Sheet: 5 OF 08

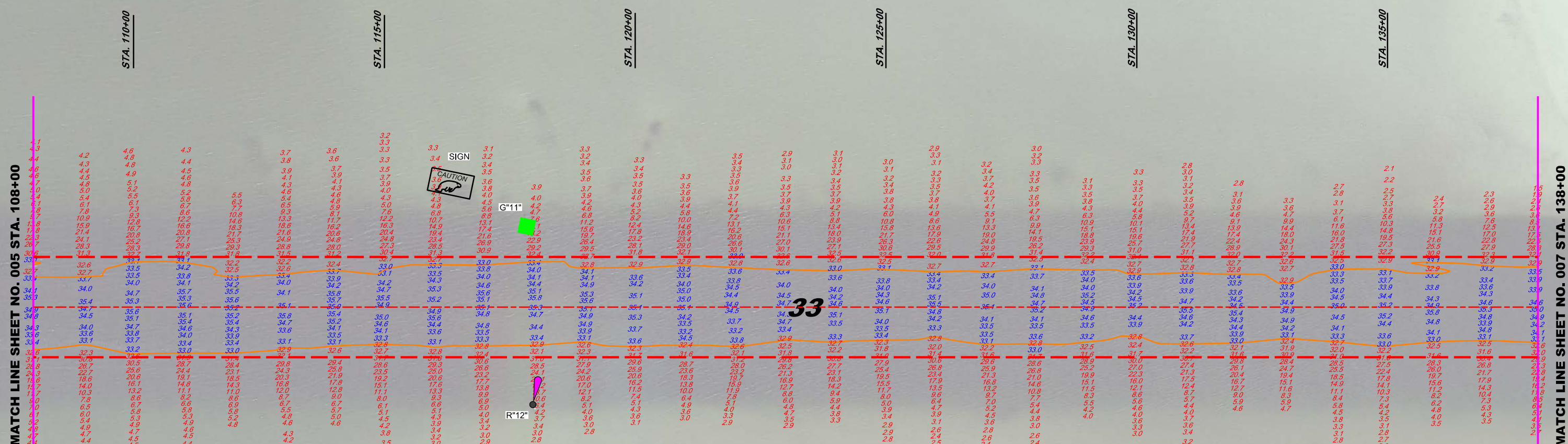
ALAFIA RIVER
HILLSBOROUGH COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY19
33 AND 34-FOOT PROJECT**
STA. 78+00 THRU STA. 108+00 ALAFIA RIVER CHANNEL
PLAN

Scale: AS SHOWN
Drawing no.
5
SHEET 05 OF 08

X	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G-11*	DBN-11 (06/19)	523.998	1,279.243	27°51'08.45"	82°24'32.48"
R-12*	LT-12 (06/19)	524.083	1,278.900	27°51'05.03"	82°24'31.52"
SIGN	SIGN (06/19)	523.812	1,278.706	27°51'03.10"	82°24'34.53"
SIGN	SIGN (06/19)	523.832	1,279.299	27°51'08.97"	82°24'34.33"

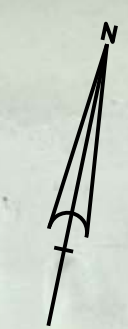


 US Army Corps of Engineers
 Jacksonville District
 SAFETY ON THIS JOB
 DEPENDS ON YOU



ALAFIA RIVER CHANNEL

Bird Island



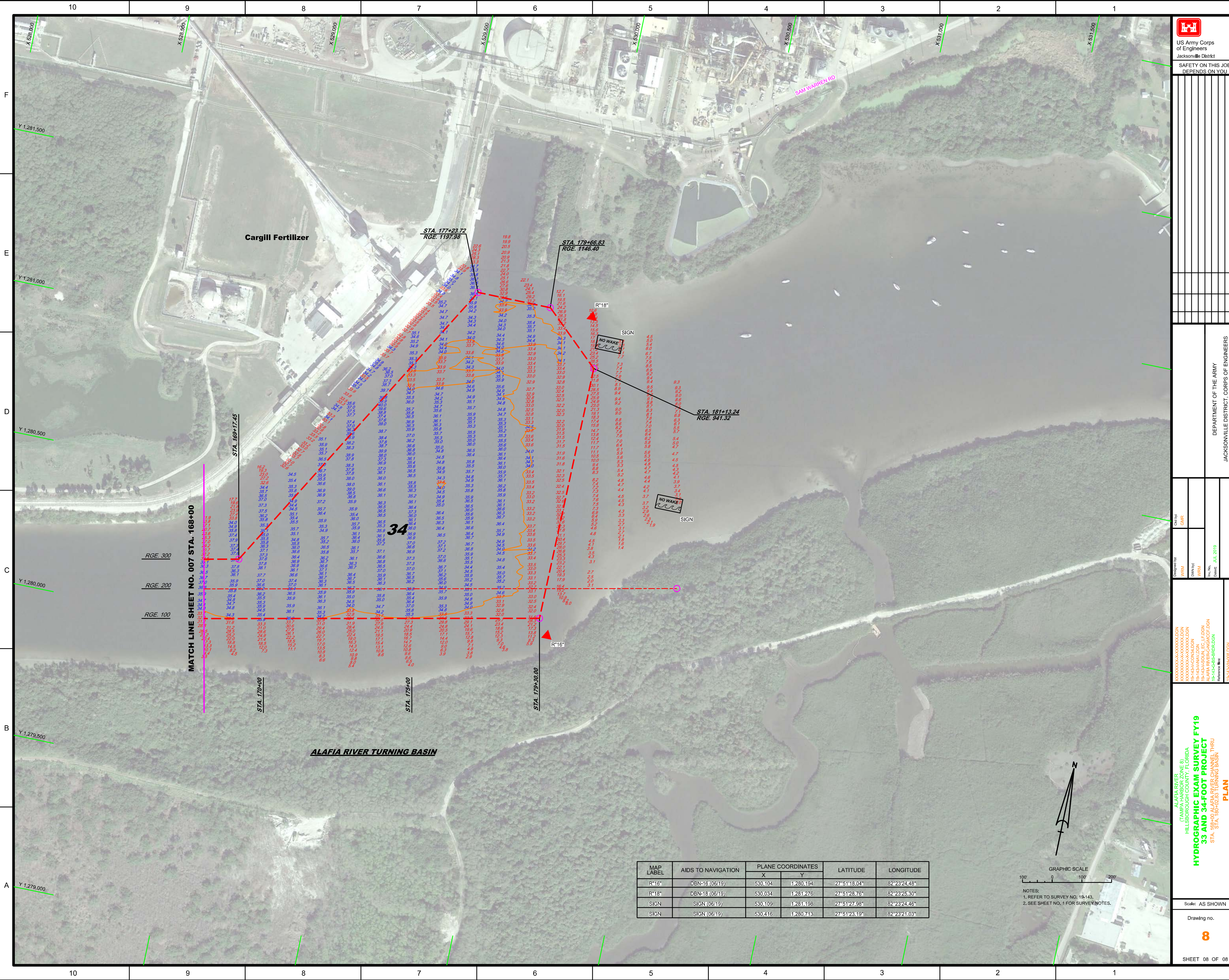
NOTES:
 1. REFER TO SURVEY NO. 19-143.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Designed by: [Redacted]
 Checked by: GHR
 Drawn by: [Redacted]
 Title: HYDROGRAPHIC EXAM SURVEY FY19
 Date: JUL 2019

ALAFIA RIVER
 (TAMPA HARBOR ZONE 0)
 HILLSBOROUGH COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY19
 33 AND 34-FOOT PROJECT**
 STA. 109+00 THRU STA. 138+00 ALAFIA RIVER CHANNEL
PLAN

Scale: AS SHOWN
 Drawing no. **6**
 SHEET 06 OF 08



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R*16	DBN-16 (06/19)	530.104	1,280.194	27°51'18.04"	82°23'24.48"
R*18	DBN-18 (06/19)	530.034	1,281.276	27°51'28.76"	82°23'25.30"
SIGN	SIGN (06/19)	530.109	1,281.198	27°51'27.98"	82°23'24.46"
SIGN	SIGN (06/19)	530.416	1,280.713	27°51'23.19"	82°23'21.03"

