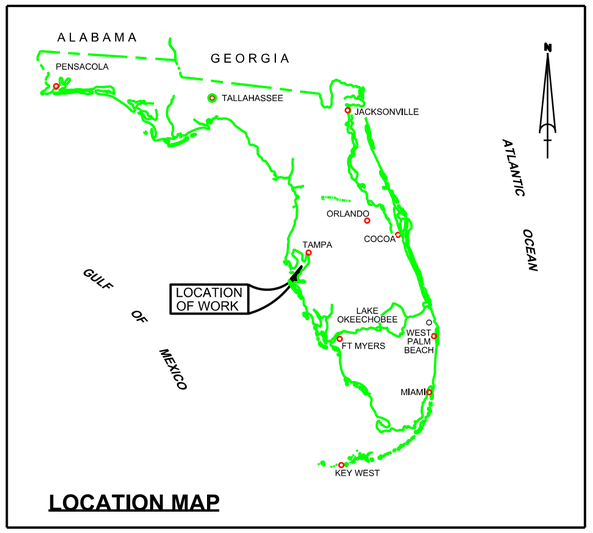


LOCATION MAP

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA
AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

SURVEY ZONE	CUTS
8	ALAFIA RIVER ENTRANCE CHANNEL

LEGEND	
△	MONUMENT
	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
C	CAN BUOY
N	NUN BUOY
	TIDE STAFF
8	PROJECT DEPTH

SURVEY NOTES

1. REFER TO SURVEY NO. 16-130. THIS SURVEY IS A COMPILATION OF AFTER-DREDGE SURVEYS 16-023-1, 16-023-2 AND 16-023-3.
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 GAGE SITE SPECIFIED 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.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "Q-261" (NGS PID: AG6024)

   TIDE STAFF LOCATED FROM "Q-261" (NGS PID: AG6024)
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835 SMARTSOUNDER WITH DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN ARE IN LOW FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-34	14 JAN 2016	ENTRANCE CHANNEL
SB-34	02 FEB 2016	ENTRANCE CHANNEL
SB-34	18 FEB 2016	E.C. AND TURNING BASIN

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 13.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

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

Designed by: VIRM
DWN by: VIRM
Chd by: CMR
Rev. No.
Date: FEB 2016

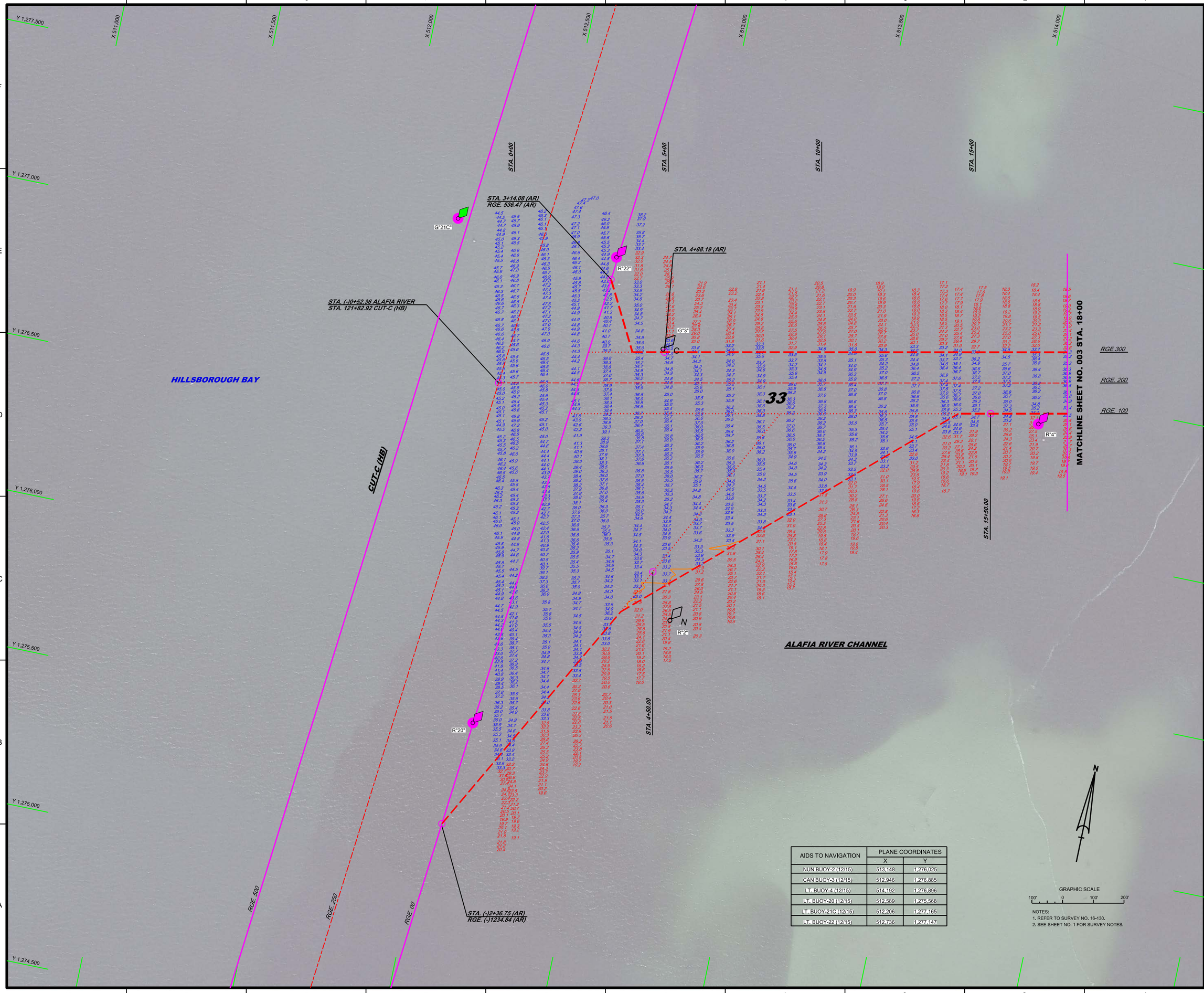
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
ALAFIA RIVER-CAD\ACCF.DGN
ALAFIA RIVER-CAD\ACCF.DGN
TAMPA HARBOR-CAD\MCCF.DGN
16-130\CHS-BNDR.DGN
Reference files:
16-130\VH-001.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA
AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
NUN BUOY-2 (12/15)	513,148	1,276,025
CAN BUOY-3 (12/15)	512,946	1,276,885
LT. BUOY-4 (12/15)	514,192	1,276,896
LT. BUOY-20 (12/15)	512,589	1,275,568
LT. BUOY-21C (12/15)	512,206	1,277,165
LT. BUOY-22 (12/15)	512,736	1,277,147

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: VIRM
Drawn by: VIRM
Checked by: CMR
Rev. No.
Date: FEB 2016

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
16-130-0-NAV.DGN
16-130-0-CONS.DGN
16-130-0-SURVEY-1-F.DGN
TAMPA HARBOR-CAN3MCCF.DGN
ALAFIA RIVER-CNM3MCCF.DGN
16-130-0-ES-SHDR.DGN
Reference files:
16-130-VH-002.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. (-)0+52.36 THRU STA. 18+00 ALAFIA RIVER CHANNEL

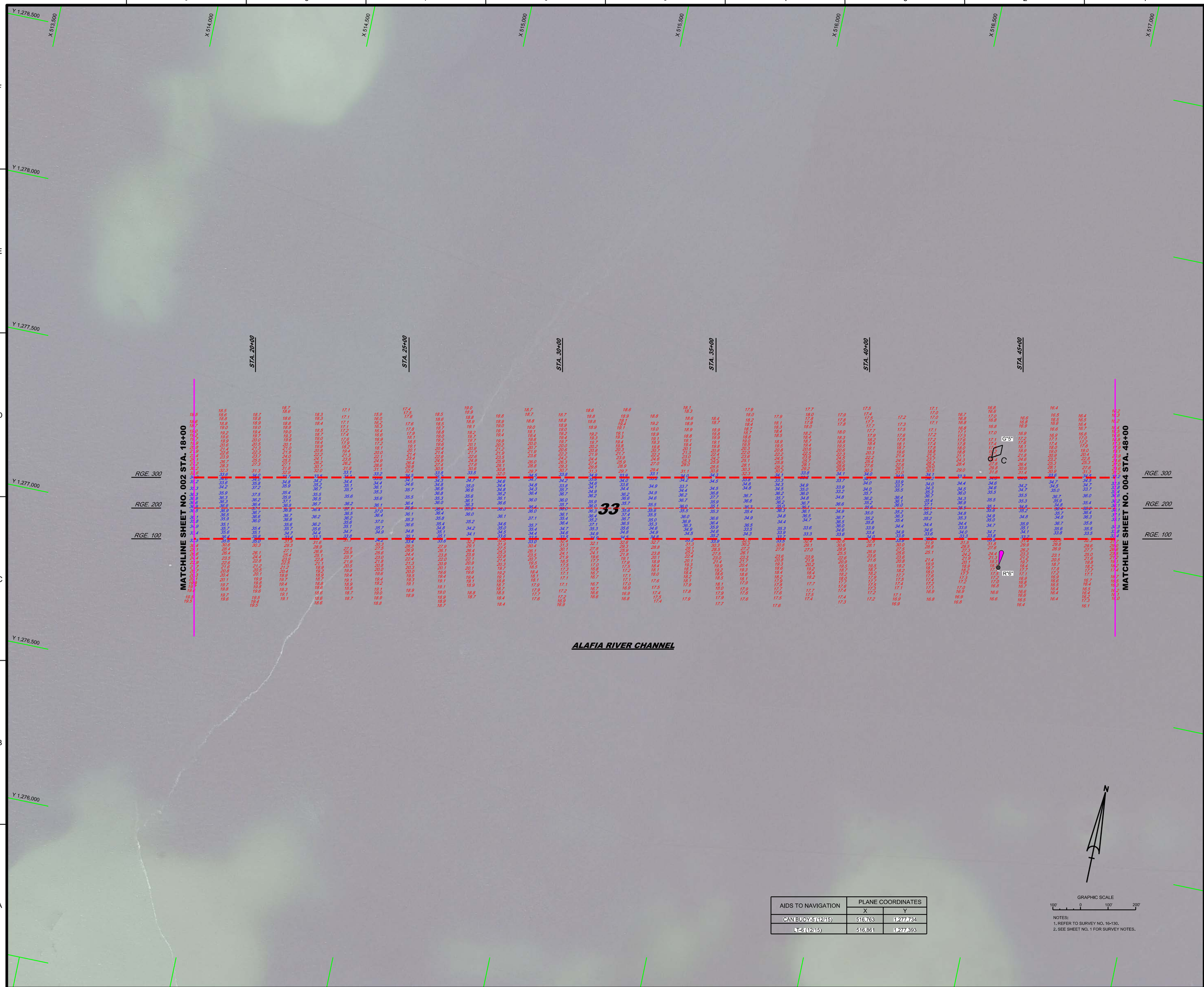
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
CAN BUOY-5 (12/15)	516,763	1,277,734
LT-6 (12/15)	516,861	1,277,393

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: WRM
Drawn by: WRM
Checked by: CMR
Rev. No.
Date: FEB 2016

D:\XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
16-130-VARIOUS_EC_LF.DGN
ALAFIA RIVER-CNGMCCF.DGN
16-130-CESSRDR.DGN
Reference files:
16-130-VH003.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 18+00 THRU STA. 48+00 ALAFIA RIVER CHANNEL

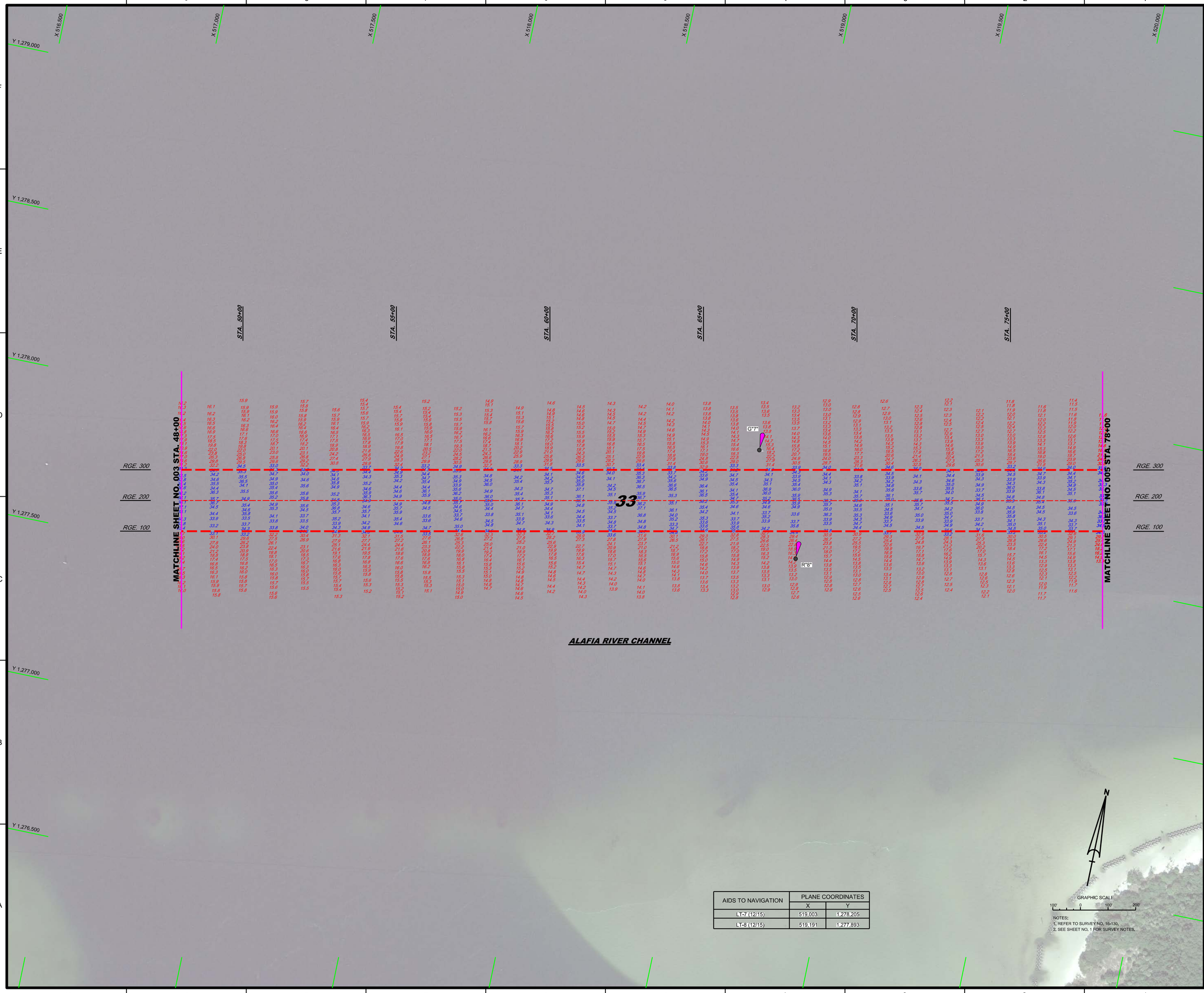
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT-7 (12/15)	519,003	1,278,205
LT-8 (12/15)	519,191	1,277,893

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Chief by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.
Date: FEB 2016

XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
16-130-VI-SOUN_EC_LF.DGN
ALAFIA RIVER-CNGMCCF.DGN
16-130-CES-SRDR.DGN
Reference files:

16-130-VIH004.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 48+00 THRU STA. 78+00 ALAFIA RIVER CHANNEL

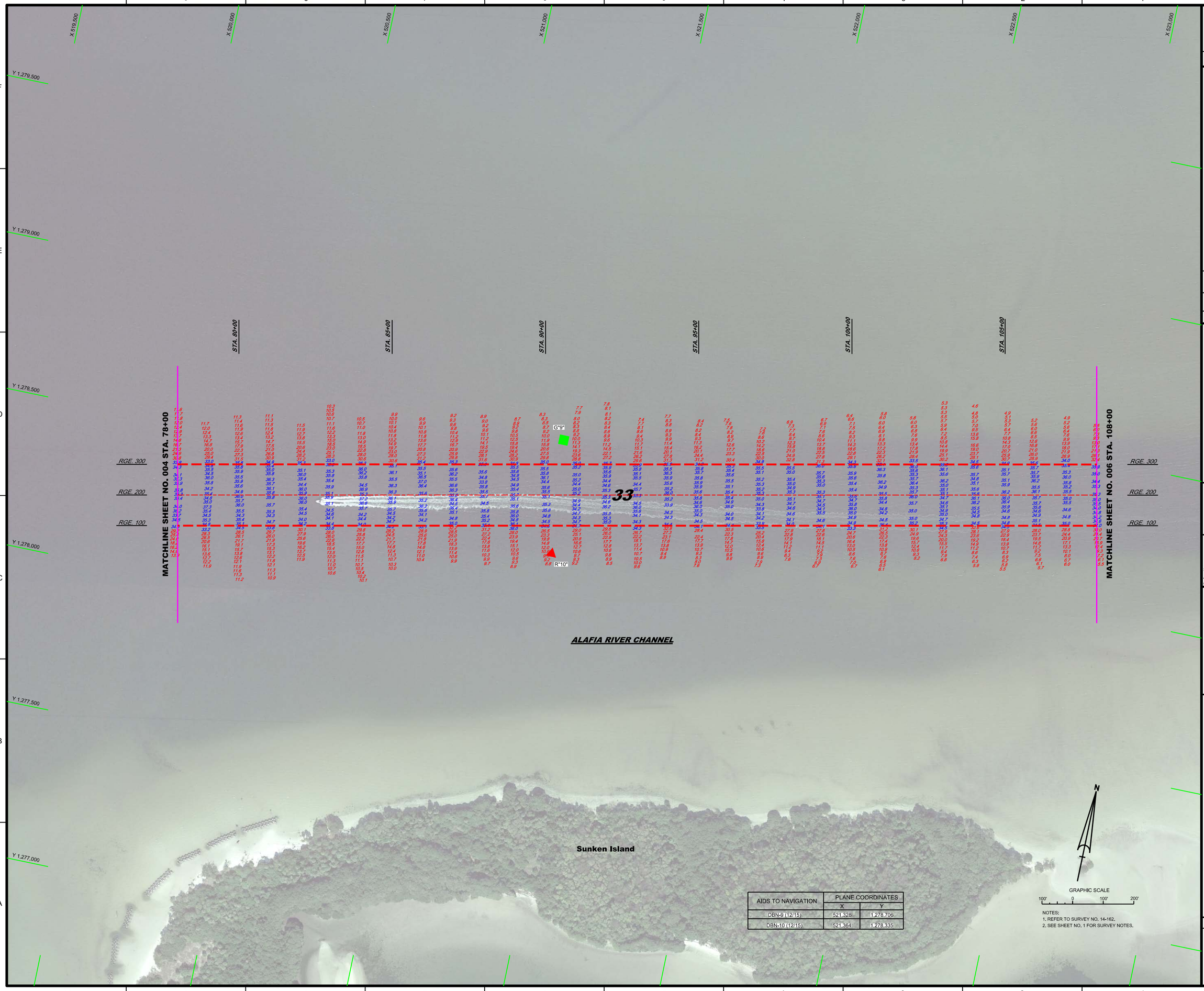
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-9 (12/15)	521,328	1,278,706
DBN-10 (12/15)	521,364	1,278,335

NOTES:
1. REFER TO SURVEY NO. 14-162.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No. | Submitted | Date

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

Designed by: WRM
Drawn by: WRM
Checked by: GR
Rev. No.
Date: FEB 2016

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
14-162-A-NAV.DGN
14-162-A-SOUN.DGN
14-162-A-SOUN_LC_LF.DGN
ALAFIA RIVER-C-NGMCCF.DGN
16-130-C-SB-BROR.DGN
Reference files:
14-162-XH-F05.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 78+00 THRU STA. 108+00 ALAFIA RIVER CHANNEL

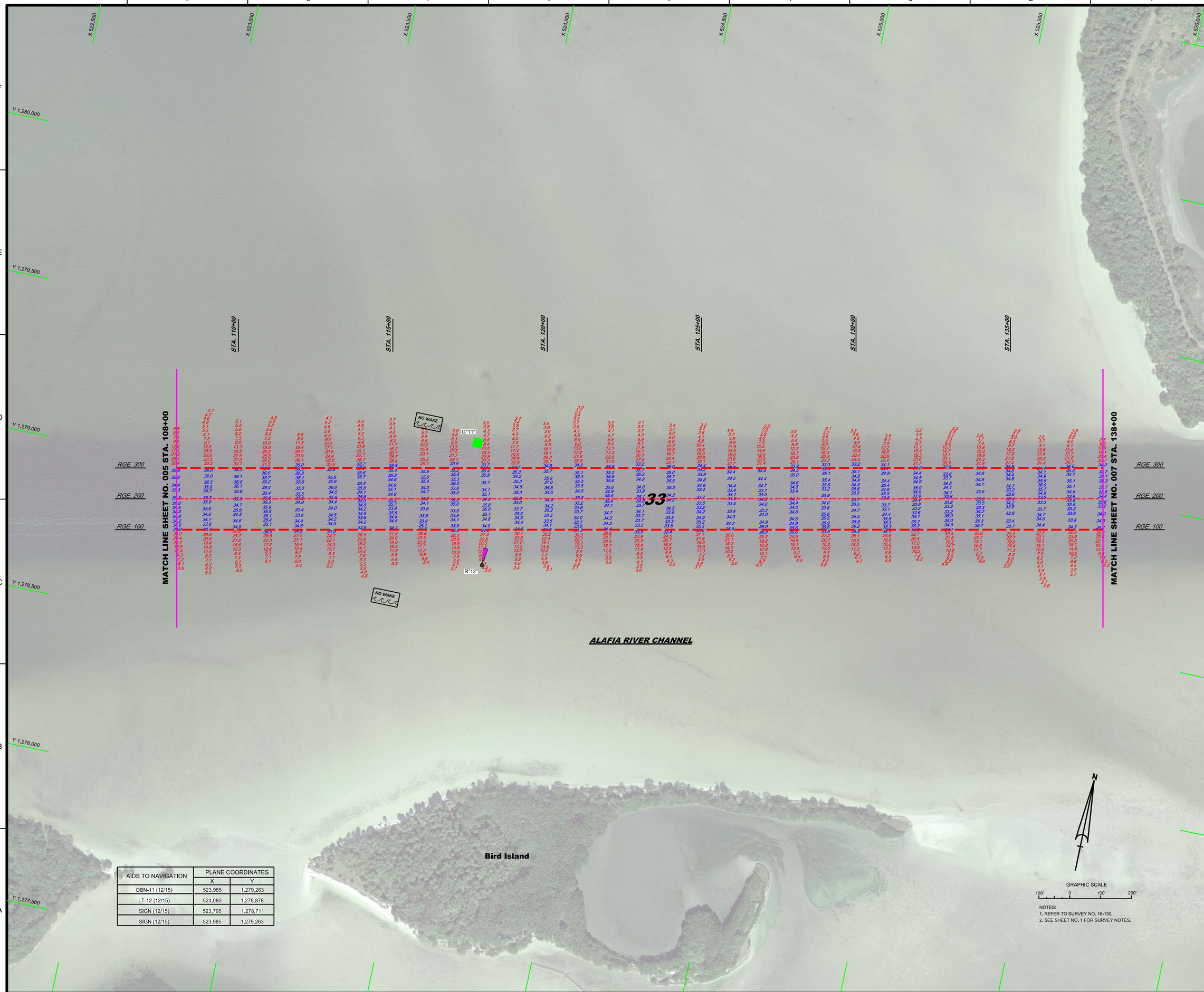
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-11 (12/15)	523,985	1,279,263
LT-12 (12/15)	524,080	1,278,878
SIGN (12/15)	523,795	1,278,711
SIGN (12/15)	523,985	1,279,263

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: VIRM
DWN by: VIRM
Chk by: CMR
Rev. No.
Date: FEB 2016

Reference files:
X:XXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
16-130-VSOUN_EC_LF.DGN
ALAFIA RIVER-CNGMCCF.DGN
16-130-CHS-SHDR.DGN
16-130-VHD06.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 108+00 THRU STA. 138+00 ALAFIA RIVER CHANNEL

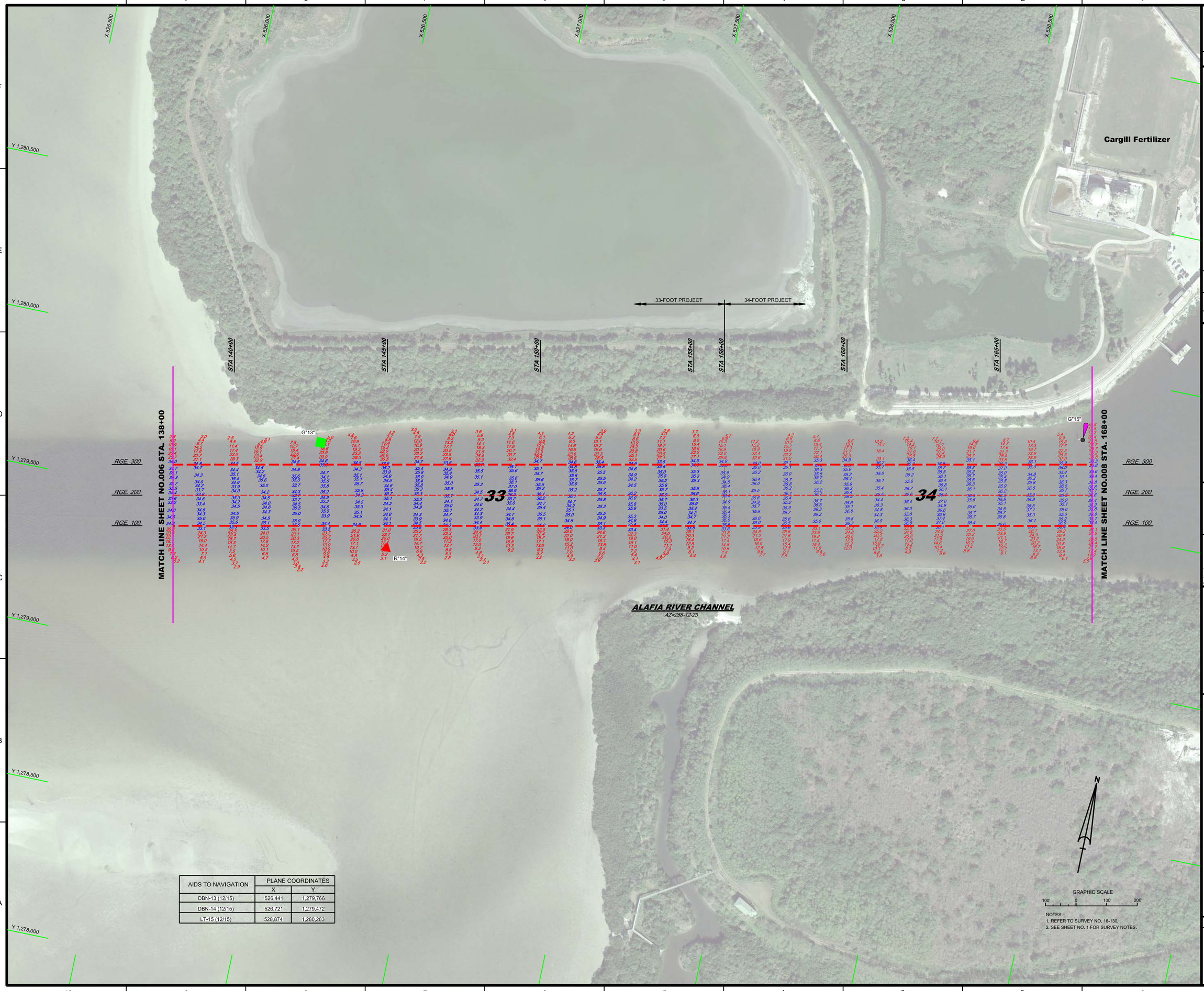
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-13 (12/15)	526,441	1,279,766
DBN-14 (12/15)	526,721	1,279,472
LT-15 (12/15)	528,874	1,280,283

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No. Symbol Zone

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

Chief by: CMR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: FEB 2016

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
15-130-VSOUN_EC_LF.DGN
ALAFIA RIVER-CAGMICCF.DGN
16-130-CESB-BRDR.DGN
Reference files:
16-130-VH-007.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 138+00 THRU STA. 168+00 ALAFIA RIVER CHANNEL

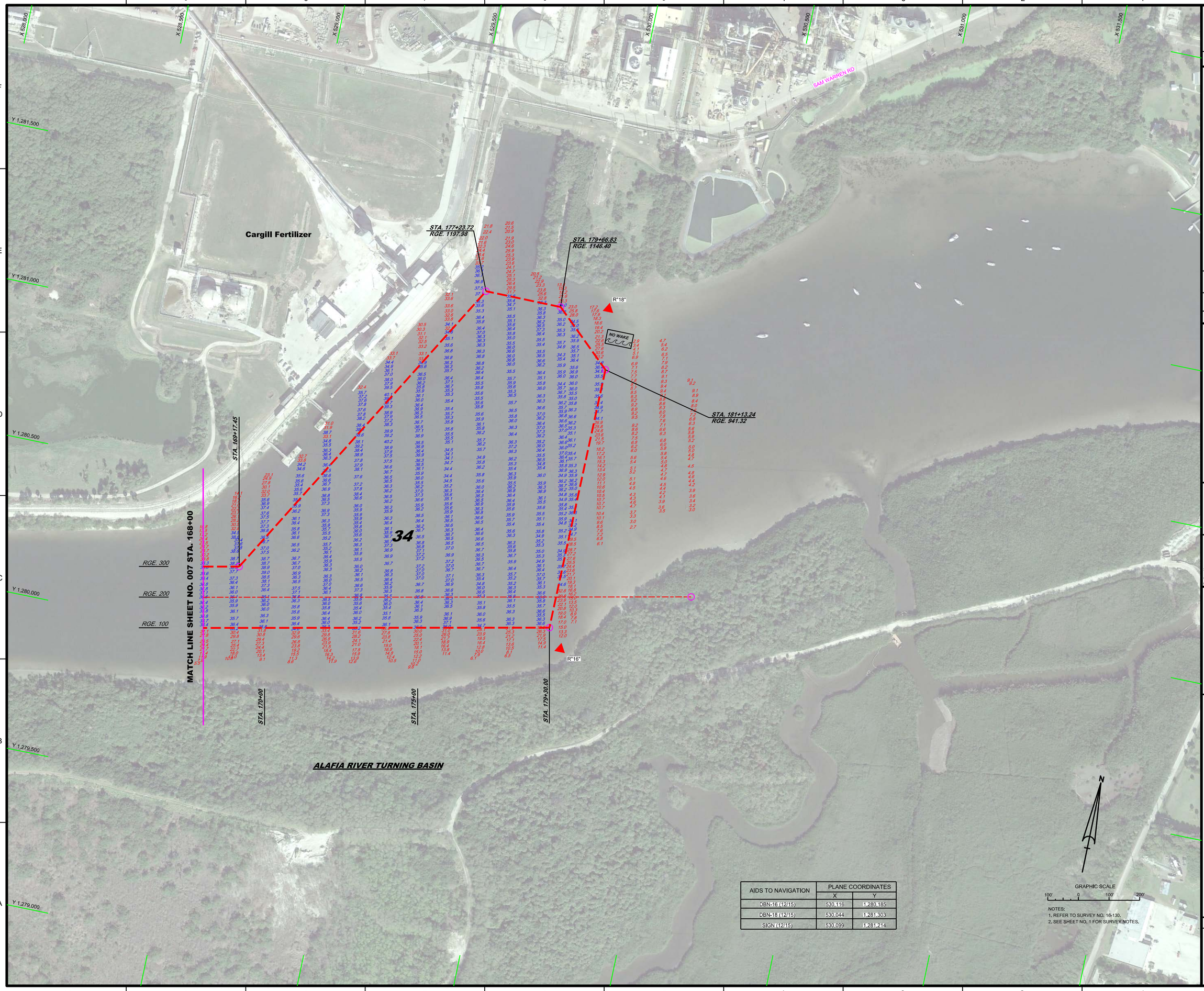
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-16 (12/15)	530,116	1,280,185
DBN-18 (12/15)	530,044	1,281,303
SIGN (12/15)	530,099	1,281,214

NOTES:
1. REFER TO SURVEY NO. 16-130.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No. Symbol Zone

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Plot No.
Date: FEB 2016

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
16-130A-SDUN_LIC_LF.DGN
ALAFIA RIVER-C-NGMCCF.DGN
16-130A-C-BB-BRDR.DGN
Reference files
16-130A-HH08.DGN
File name:

ALAFIA RIVER
(TAMPA HARBOR ZONE 8)
HILLSBOROUGH COUNTY, FLORIDA

AFTER-DREDGE COMPILATION SURVEY FY16
33 AND 34-FOOT PROJECT

STA. 169+17.45 (MATCH LINE SHEET NO. 007 STA. 168+00) THRU
STA. 181+13.24 (ALAFIA RIVER TURNING BASIN)

PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 08