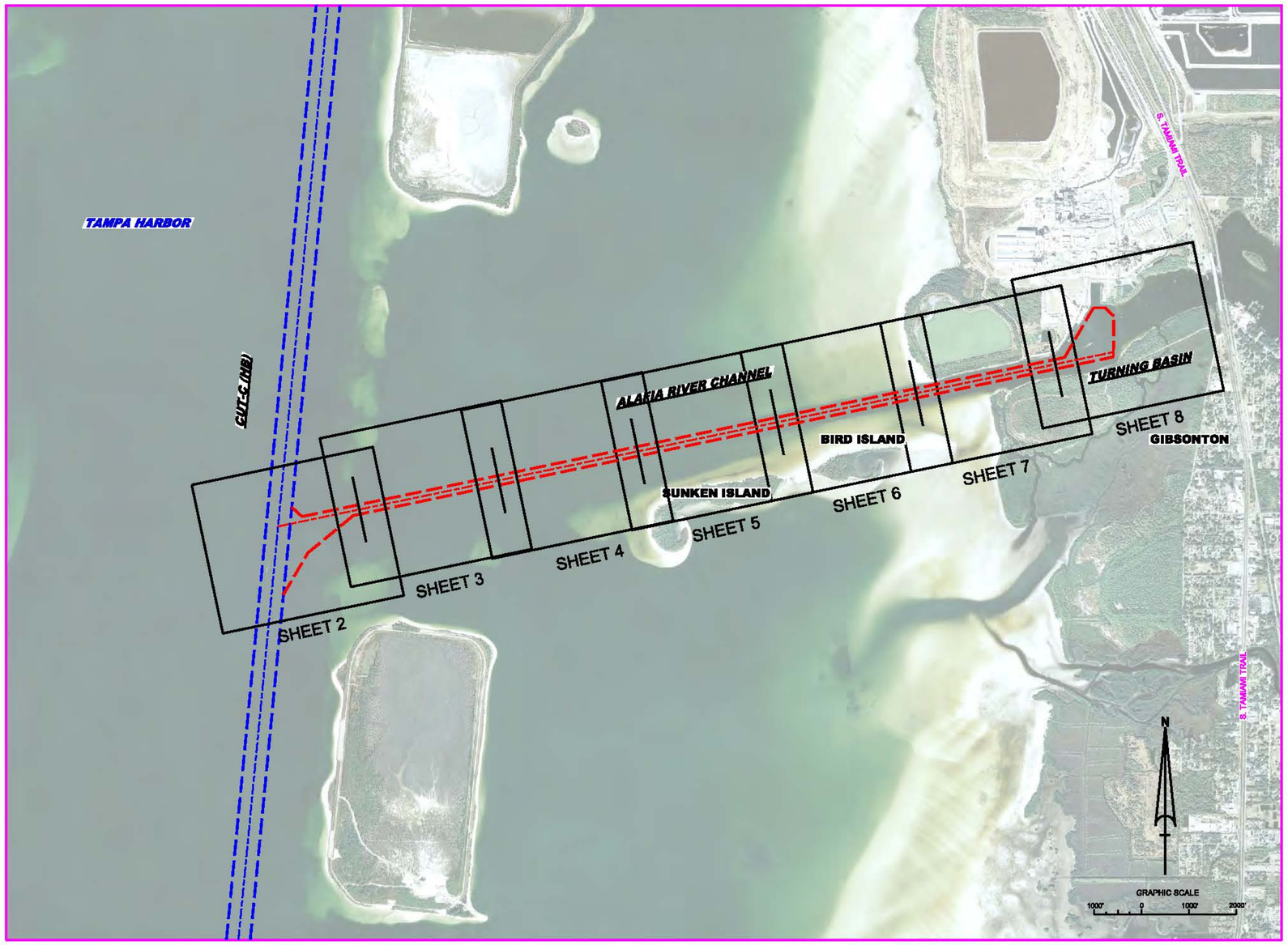
LOCATION MAP

ALAFIA RIVER
HILLSBOROUGH COUNTY, FLORIDA
33 AND 34-FOOT EXAM SURVEY FY12



SURVEY NOTES

1. REFER TO SURVEY NO. 12-180.
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 ENTIRE PROJECT.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW USING A KINEMATIC TIDE DATUM (KTD) MODEL. (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 AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

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

   TIDE STAFF LOCATED FROM TIDAL BENCHMARK "Q-261" (NGS PID: AG6024)

   VERTICAL MEASUREMENTS WERE MADE USING A ROBS MODEL 835 SMART-SOUNDER WITH DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. SOUNDINGS SHOWN IN LOW FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
WB-34	02-03 JUL 2012	ALAFIA RIVER
WB-34	24 SEP 2012	ALAFIA RIVER
WB-34	08 NOV 2012	ALAFIA RIVER
WB-34	17, 20 DEC 2012	ALAFIA RIVER
WB-34	08, 10 JAN 2013	ALAFIA RIVER

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF 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 AND IS NOT TO BE USED FOR NAVIGATION.
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, 1 JAN 02.

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

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Drawn by: WRM
Checked by: GR
Date: JAN 2013
Dwg. No.

Reference files:
TA-HB-C-SE-2012-DGN
TA-WB-11-C-SHOC2.DGN
LAYOUT1.DGN
12-180-VH-001.DGN

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

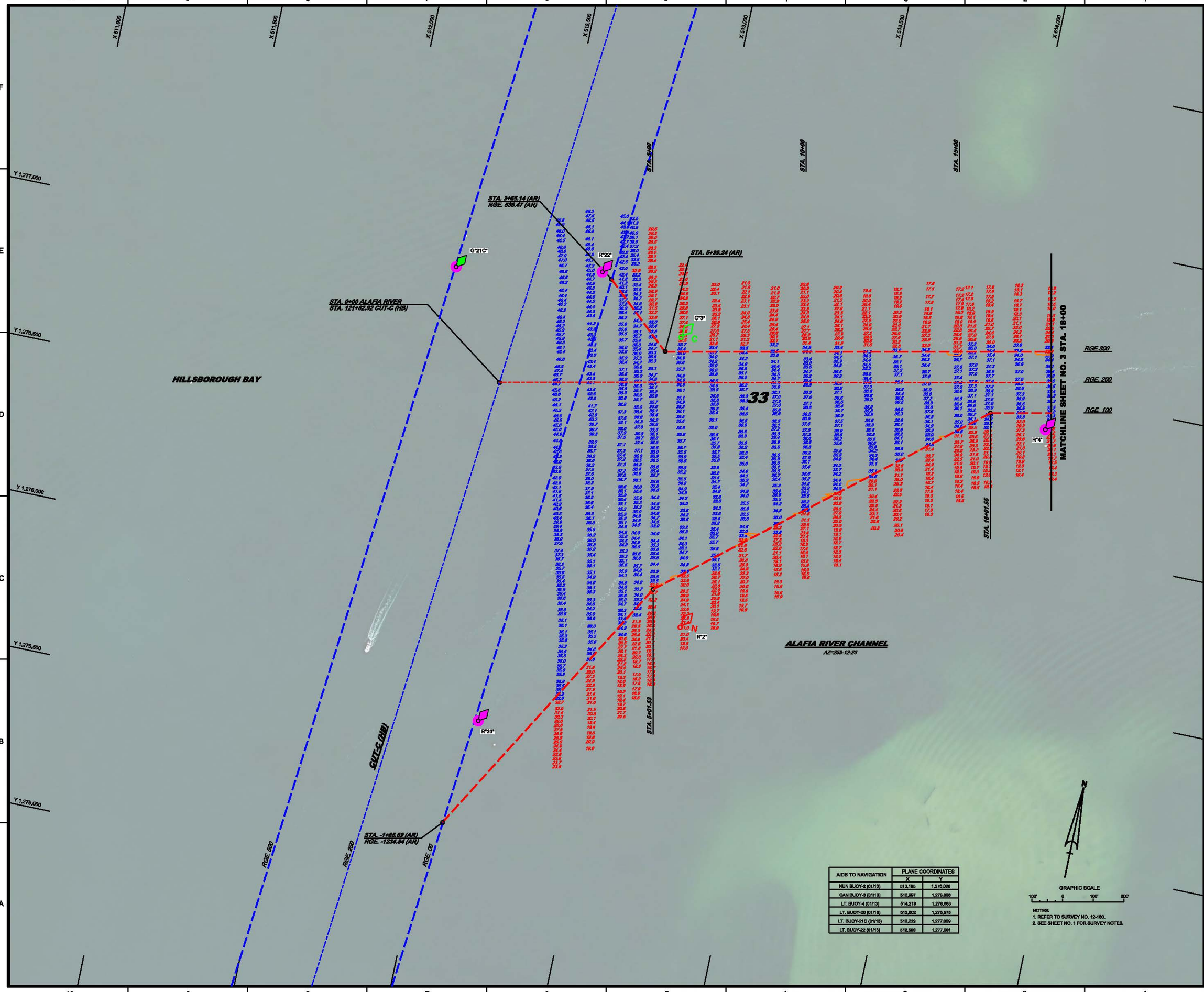
HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT

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 (01/13)	513,195	1,276,008
CAN BUOY-3 (01/13)	512,997	1,276,888
LT. BUOY-4 (01/13)	514,219	1,276,863
LT. BUOY-20 (01/13)	512,822	1,276,578
LT. BUOY-21C (01/13)	512,229	1,277,009
LT. BUOY-22 (01/13)	512,899	1,277,091

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
		A-N	ABCD

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

Checked by: GR
Drawn by: WRM
Date: JAN 2013
Dwg. No. - - -

12-180-01-BS-EXCD.DGN
TAMPA-41-C-SPMCCT.DGN
12-180-V-NAV.DGN
12-180-V-SOUN_ALL.DGN
12-180-V-CONSS.DGN

Reference files:
12-180-VH-SH02.DGN
File name:

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

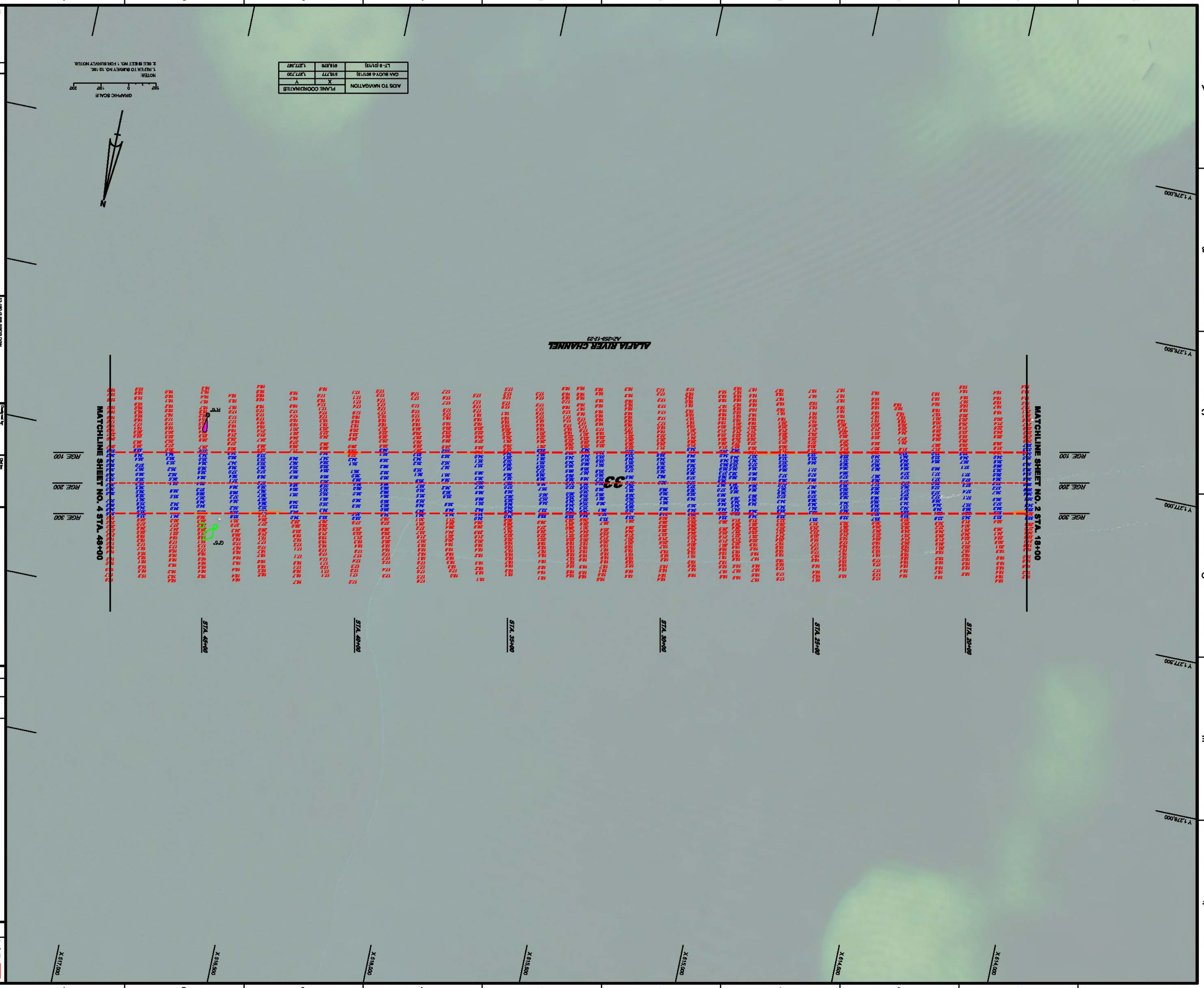
HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT

STA. 0+00 THRU STA. 18+00 ALAFIA RIVER CHANNEL PLAN

Scale: AS SHOWN

Drawing no.
2

SHEET 02 OF 08



X 514,000
X 514,500
X 515,000
X 515,500
X 516,000
X 516,500
X 517,000
Y 1,278,000
Y 1,277,500
Y 1,277,000
Y 1,276,500
Y 1,276,000
STA. 20+00
STA. 25+00
STA. 30+00
STA. 35+00
STA. 40+00
STA. 45+00
MATCHLINE SHEET NO. 2 STA. 18+00
MATCHLINE SHEET NO. 4 STA. 48+00
RGE. 300
RGE. 200
RGE. 100
33
G"5"
R"6"
ALAFIA RIVER CHANNEL
AZ=258-12-23
N
GRAPHIC SCALE
100'
0
100'
200'

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
CAN BUOY-5 901/13)	515,777	1,277,720
LT- 6 (01/13)	516,876	1,277,367

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
N		A-N	ABCD

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

Designed by:
Ckd by: GR
Dwn by: WRM
Inv. No. - - -
Dated: JAN 2013

Reference files:
12-180-G-BS-BRDR.DGN
TAMPA11-C-SPMCCF.DGN
12-180-V-NAV.DGN
12-180-V-SOUN_ALL.DGN
12-180-V-CON33.DGN

File name: 12-180-VH-003.DGN

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

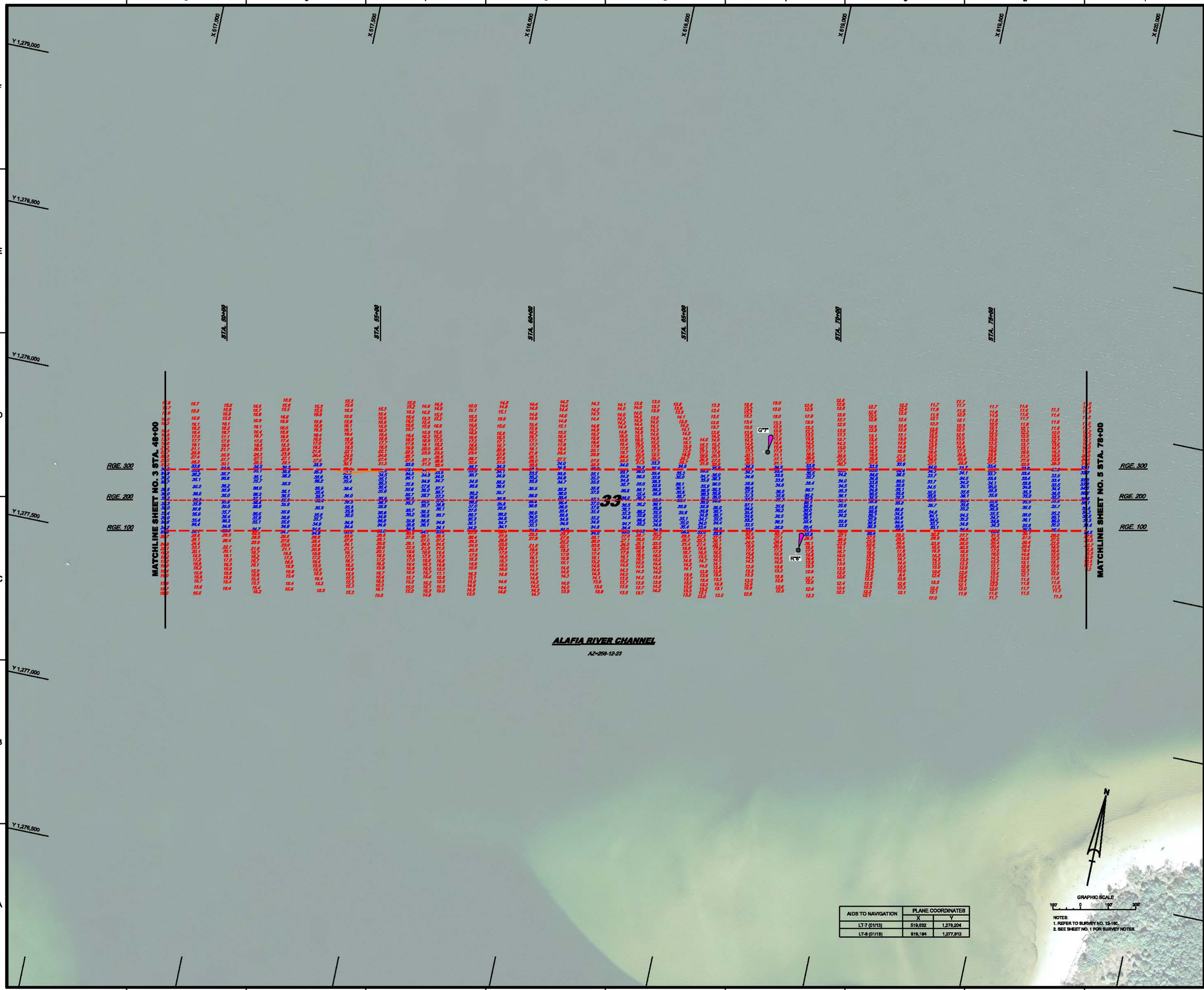
HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT

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 (01/13)	519,032	1,278,204
LT-8 (01/13)	519,194	1,277,912

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
N	A	A-N	ABCD

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

Designed by:
Drawn by: WRM
Ckd by: GR
Inv. No. - - -
Dated: JAN 2013

12-180-G-BS-BRDR.DGN
TAMPA11-C-SPMCCF.DGN
12-180-V-NAV.DGN
12-180-V-SOUN_ALL.DGN
12-180-V-CON33.DGN

Reference files:
12-180-VH-004.DGN
File name:

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

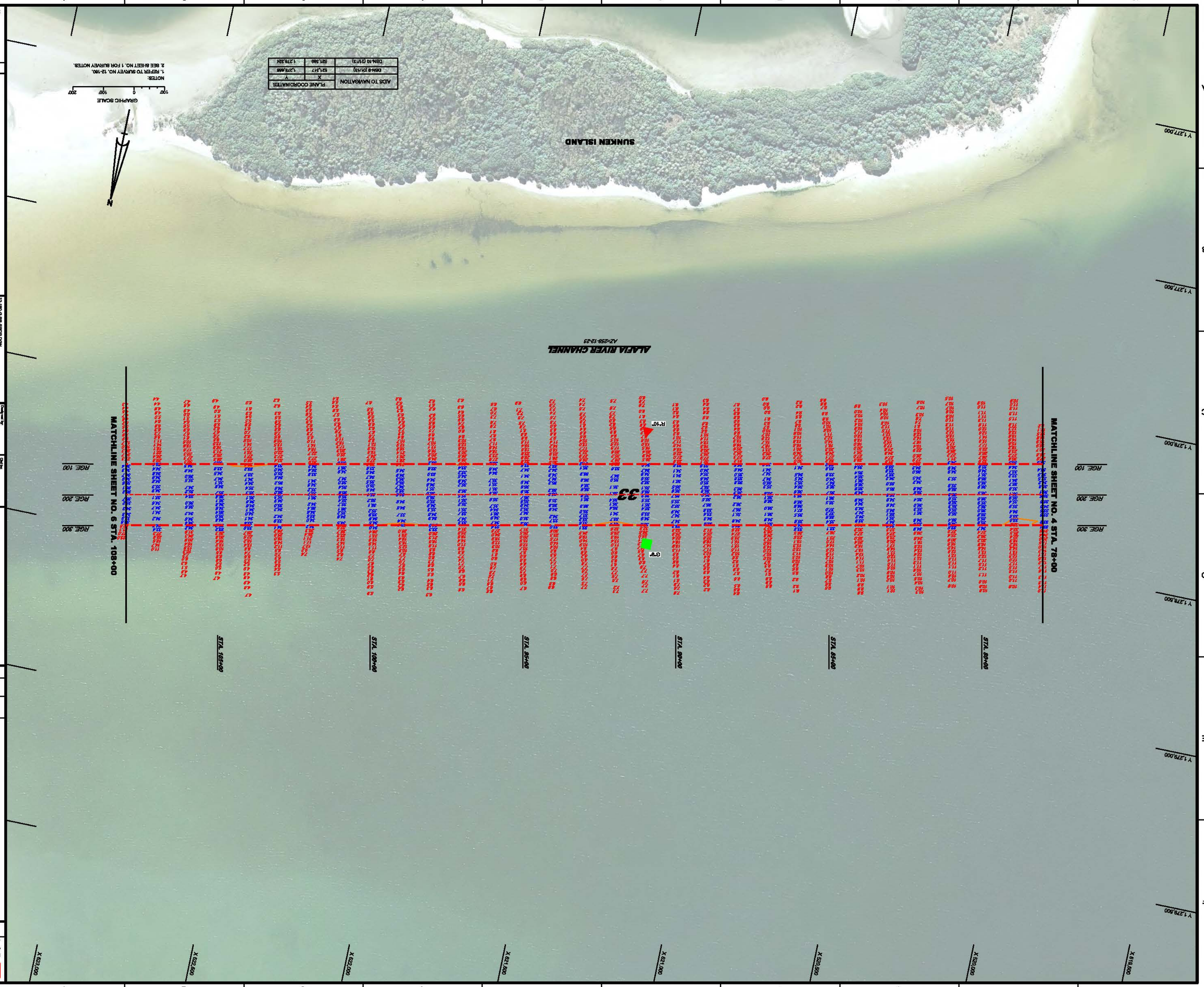
HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT

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

Scale: AS SHOWN

Drawing no.
4

SHEET 04 OF 08



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	A&CD

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

Designed by: CR
Drawn by: WRM
Checked: JAN 2013
Proj. No. - - -

12-180-G-BS-BSDR.DGN
TAMPA11-C-BPMCCF.DGN
12-180-V-NAV.DGN
12-180-V-SOUL.ALL.DGN
12-180-V-CONS3.DGN
12-180-V-CONS.DGN
File name:

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

HYDROGRAPHIC EXAM SURVEY FY12
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

MATCHLINE SHEET NO. 6 STA. 108+00

MATCHLINE SHEET NO. 4 STA. 78+00

RGE. 300
RGE. 200
RGE. 100

STA. 105+00
STA. 100+00
STA. 95+00
STA. 90+00
STA. 85+00
STA. 80+00

X 622,000
X 621,600
X 621,000
X 620,500
X 620,000
X 619,500

Y 1,279,800
Y 1,279,000
Y 1,278,800
Y 1,278,000
Y 1,277,800
Y 1,277,000

33

G-8

R-10

ALAFIA RIVER CHANNEL
AZ=299:12:33

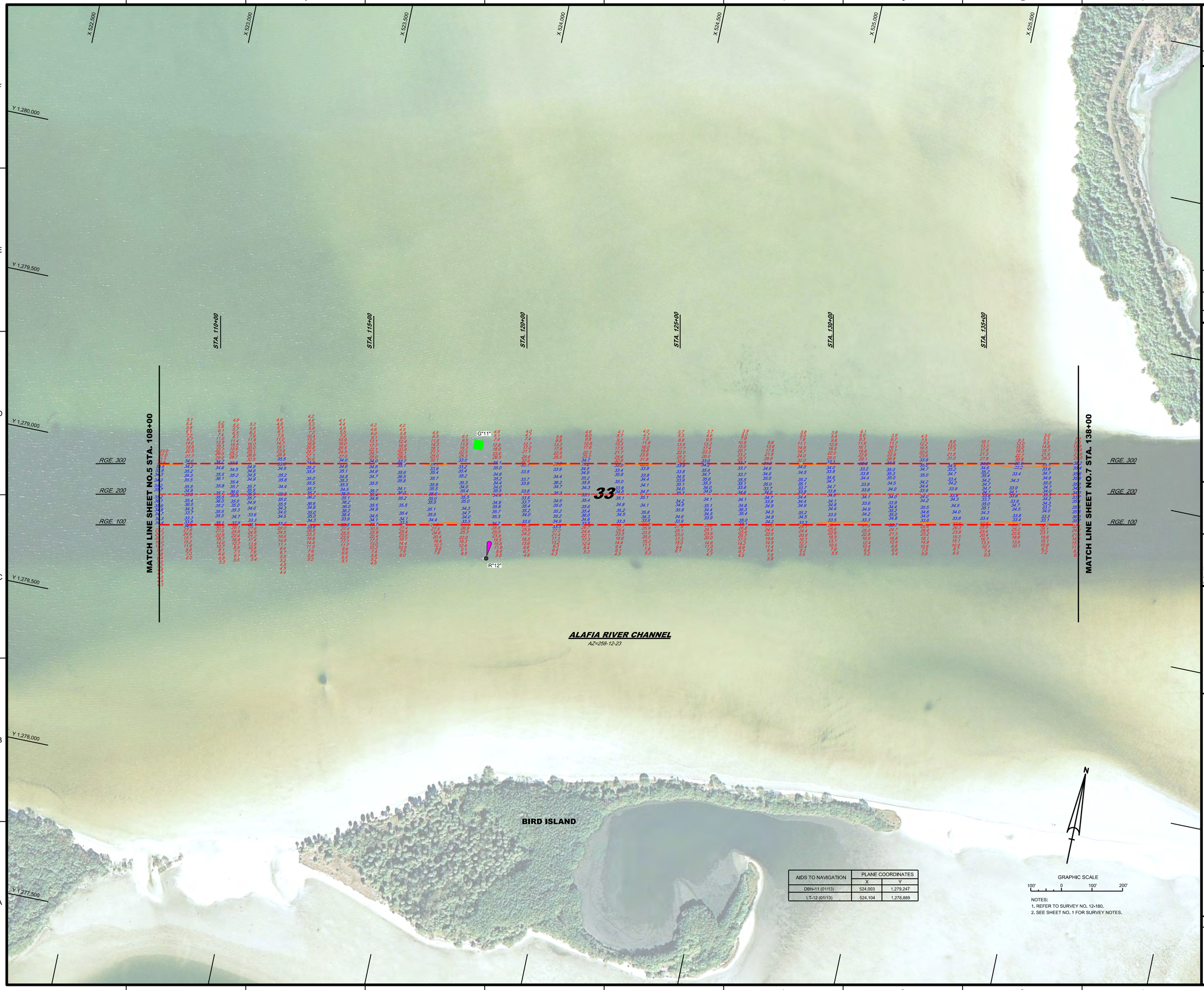
SUNKEN ISLAND

N

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 12-180.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
ABM-8 (01/13)	821,417	1,278,486
DBN-10 (01/13)	821,389	1,279,334



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-11 (01/13)	524,003	1,279,247
LT-12 (01/13)	524,104	1,278,889

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
N	A	A-N	ABCD

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

Designed by: | Dwn by: WRM | Ckd by: GR | Inv. No. - - - | Dated: JAN 2013

12-180-G-BS-BRDR.DGN
TAMPA11-C-SPMCCF.DGN
12-180-V-NAV.DGN
12-180-V-SOUN_ALL.DGN
12-180-V-CON33.DGN

Reference files:
12-180-VH-006.DGN
File name:

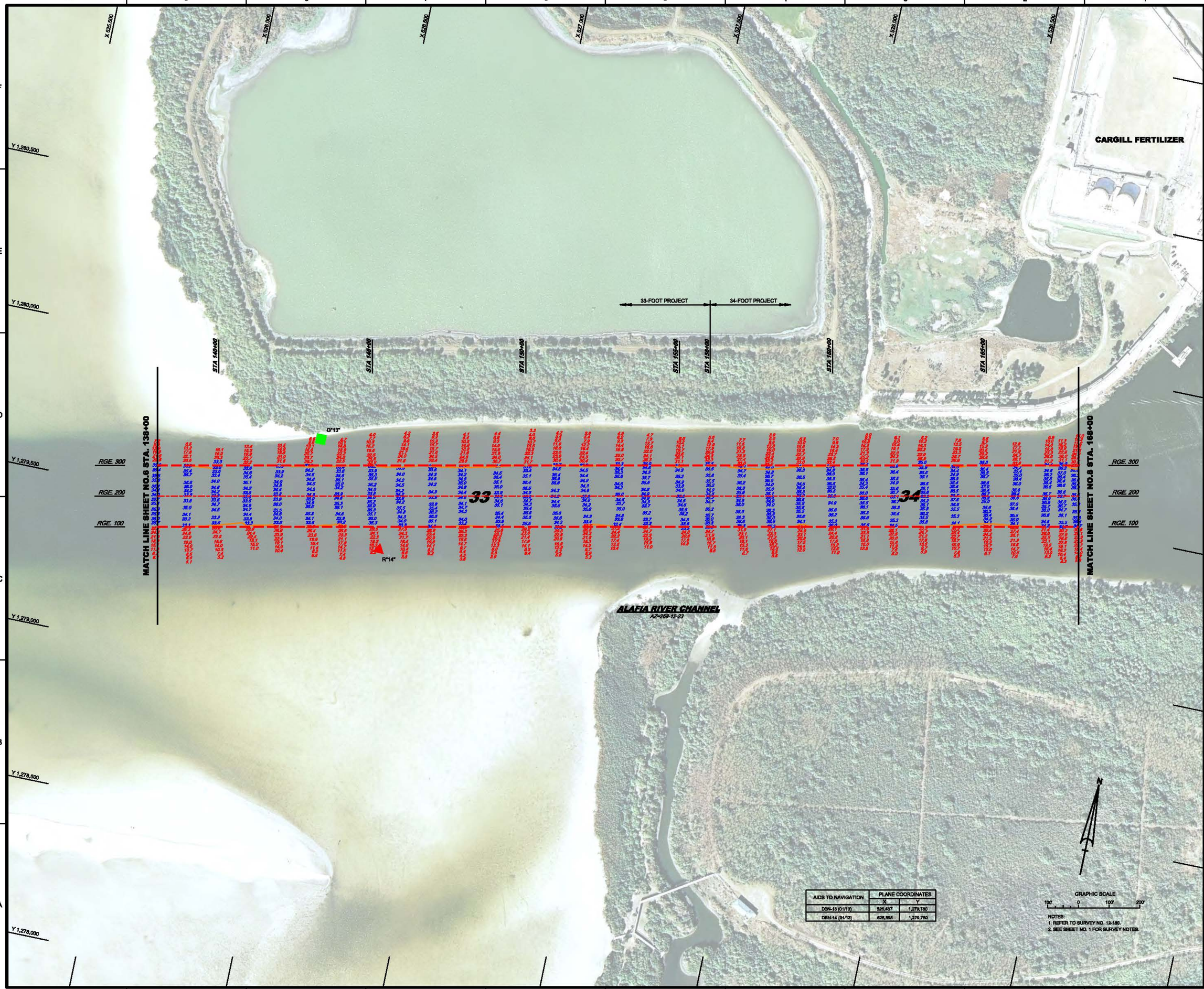
TAMPA HARBOR, FLORIDA
ALAFIA RIVER

HYDROGRAPHIC EXAM SURVEY FY12
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 (01/13)	526,437	1,279,780
DBN-14 (01/13)	528,895	1,279,780

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
N	A	A-N	ABCD

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

Checked by:
Drawn by: WRM
Dwg. No.: - - -
Date: JAN 2013

12-180-E-SB-RTCD.DGN
TAMPA11-E-BRACCF.DGN
12-180-H-MAV.DGN
12-180-V-SOUN_ALL.DGN
12-180-V-CONS.DGN
12-180-V-CONSA.DGN

Reference files:
12-180-VH-007.DGN
File name:

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT

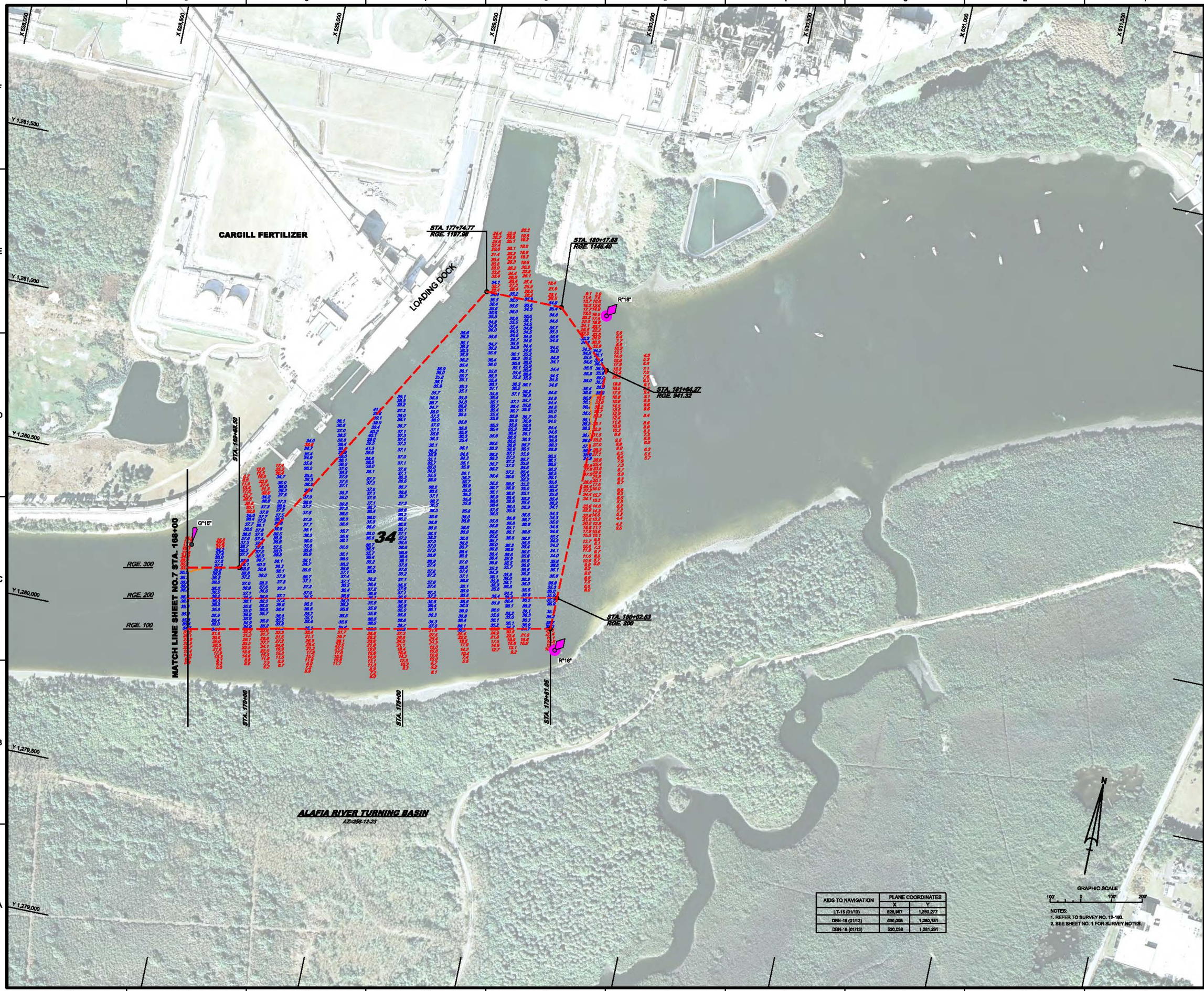
STA. 138+00 THRU STA. 168+00 ALAFIA RIVER CHANNEL PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
LT-15 (01/13)	628,967	1,280,277
DBN-16 (01/13)	630,095	1,280,181
DBN-18 (01/13)	630,038	1,281,281

NOTES:
1. REFER TO SURVEY NO. 12-180.
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	Description
1	A	A-N	ABCD

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

Designed by: | Drawn by: GR | Chk by: GR | Rev. No. - - - | Date: JAN 2013

Reference files: 12-180-SUB-PROJ.DGN, TAMPA11-C-BRACCF.DGN, 12-180-H-NAV.DGN, 12-180-V-SOUN_ALL, 12-180-V-CONN.DGN

File name: 12-180-VR-009.DGN

TAMPA HARBOR, FLORIDA
ALAFIA RIVER

HYDROGRAPHIC EXAM SURVEY FY12
33 AND 34-FOOT PROJECT
STA. 168+00 ALAFIA RIVER CHANNEL THRU STA. 180+02.63 TURNING BASIN PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 08