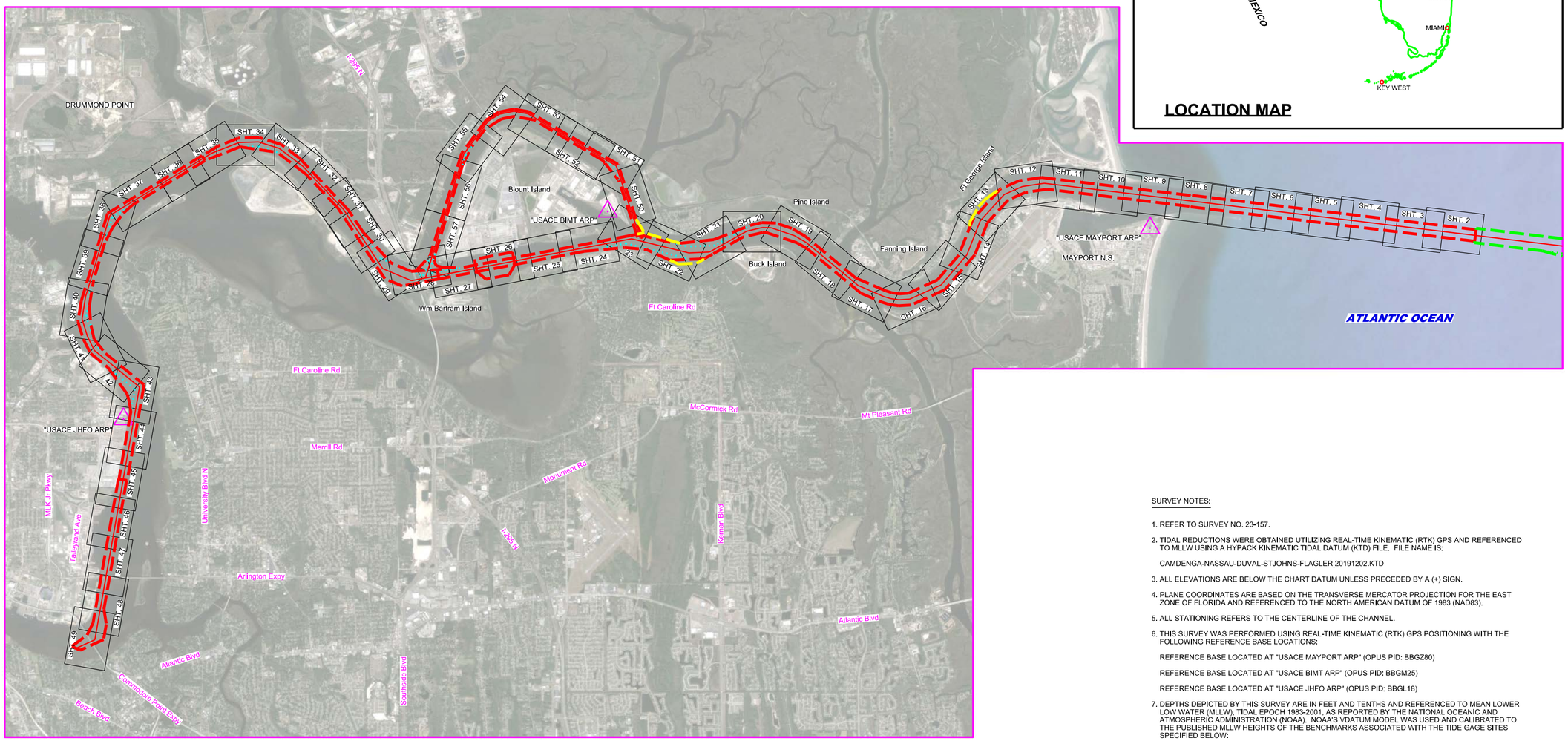
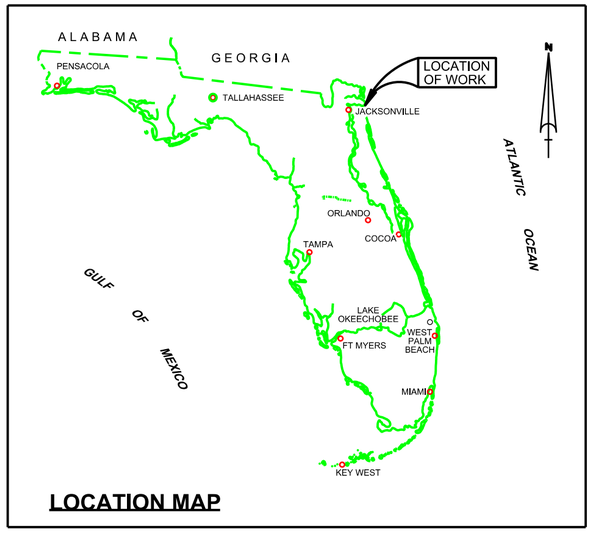
JACKSONVILLE HARBOR, FLORIDA
HOT SPOTS EXAM SURVEY 2 OF 3 FY23
30, 34, 38, 40 & 47-FOOT PROJECT





LOCATION MAP

N

GRAPHIC SCALE

3000' 0 3000' 6000'

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. 23-157.
2. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW USING A HYPACK KINEMATIC TIDAL DATUM (KTD) FILE. FILE NAME IS:

   CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_20191202.KTD
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
5. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
6. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "USACE MAYPORT ARP" (OPUS PID: BBGZ80)

   REFERENCE BASE LOCATED AT "USACE BIMT ARP" (OPUS PID: BBGM25)

   REFERENCE BASE LOCATED AT "USACE JHFO ARP" (OPUS PID: BBGL18)
7. DEPTHS DEPICTED BY THIS SURVEY ARE IN FEET AND TENTHS AND 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 BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
   NOAA TIDAL STATION 872-0221, FULTON
   NOAA TIDAL STATION 872-0219, DAMES POINT
   NOAA TIDAL STATION 872-0215, NAVY FUEL DEPOT
   NOAA TIDAL STATION 872-0242, LONG BRANCH
8. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2024 MULTI-BEAM SYSTEM (240 KHZ). ALL SINGLE-BEAM SOUNDINGS WERE MADE WITH A TELEDYNE E20 OPERATING AT 28/200 KHZ. ALL SOUNDINGS ARE SHOWN IN HIGH FREQUENCY EXCEPT FOR TERMINAL CHANNEL STATIONS 0+00 - 65+00.17 WHICH ARE IN LOW FREQUENCY (28 KHZ).

VESSEL	DATE OF SURVEY	AREA SURVEYED
SV SALZER	14 APR 2023	CUTS 18 THRU 40
SV SALZER	17 APR 2023	CUTS 41 THRU 42 STA 44+00
SV SALZER	25 APR, 02 MAY 2023	CUT-42 STA 44+00 - END
SV SALZER	26 APR 2023	CUT-55
SB-44, SB-48	01 MAY 2023	LTC, UTC
SB-48	02 MAY 2023	UTC

9. AIDS TO NAVIGATION WERE LOCATED FOR 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 SURVEY.
11. SURVEY ACCURACY 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.

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: VRM
Chd by: CMB
Rev. No.
Date: MAY 2023

XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
23-157-CASBSBRDR.DGN
Reference files:
23-157-VHH001.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

INDEX, LOCATION AND VICINITY

MAP

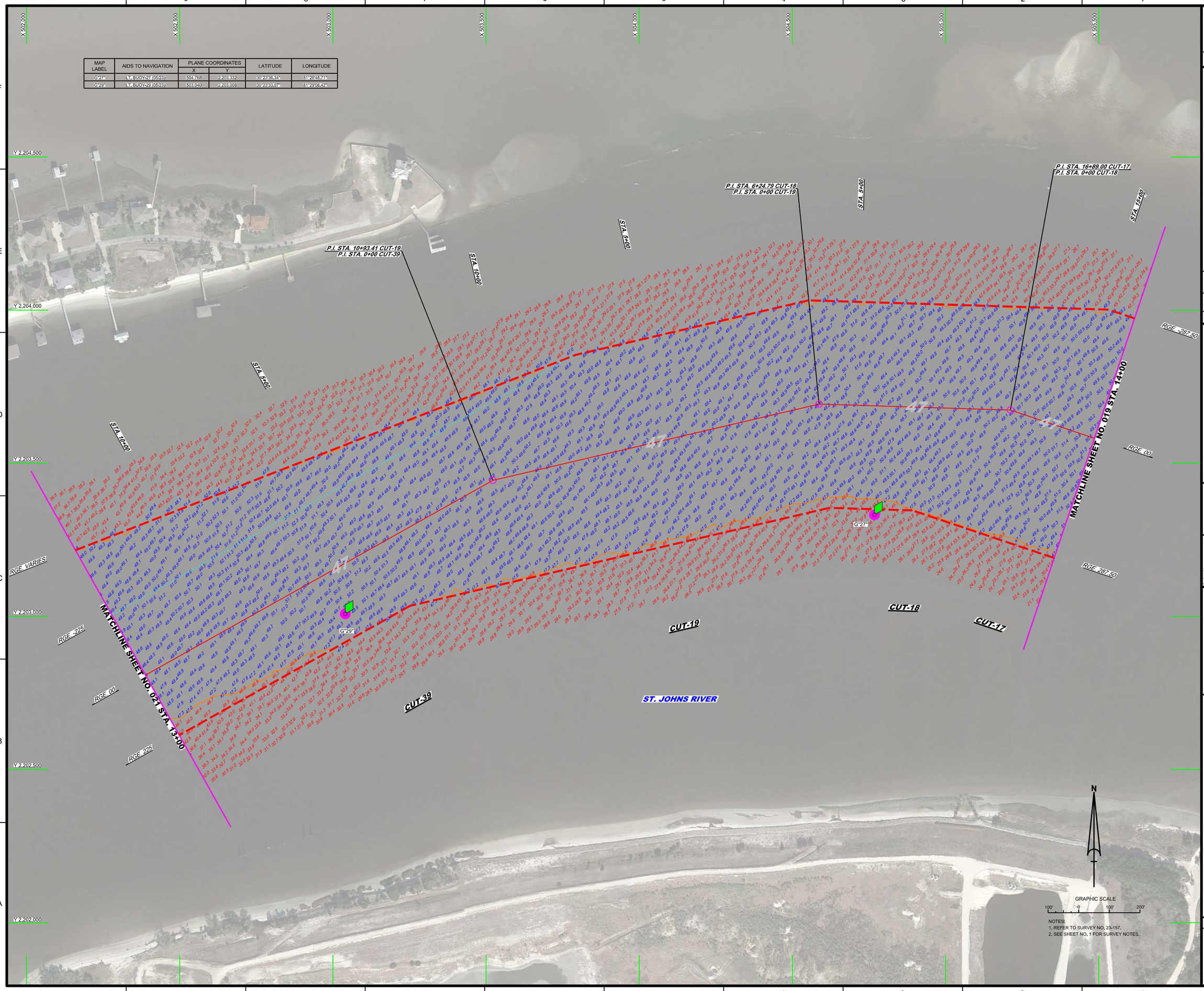
Scale: AS SHOWN

Drawing no.

1 / 19

SHEET 01 OF 57

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"27"	LT. BUOY-27 (05/23)	504,768	2,203,332	30°23'36.34"	81°28'48.71"
G"29"	LT. BUOY-29 (05/23)	503,040	2,203,008	30°23'33.07"	81°29'08.42"



NOTES:
1. REFER TO SURVEY NO. 23-157.
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
Chk by: GMR
Proj. No.
Date: MAY 2023

23-157A-CON47.DGN
23-157A-SOUN.DGN
23-157A-SOUN_ALL CUTS.DGN
JAX HARBOR 47 EXTENSION-C-NGVCCF.DGN
23-157C-BR-BRDR.DGN
Reference files
23-157-AHH20.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 14+00 CUT-17 THRU STA. 13+00 CUT-39

PLAN

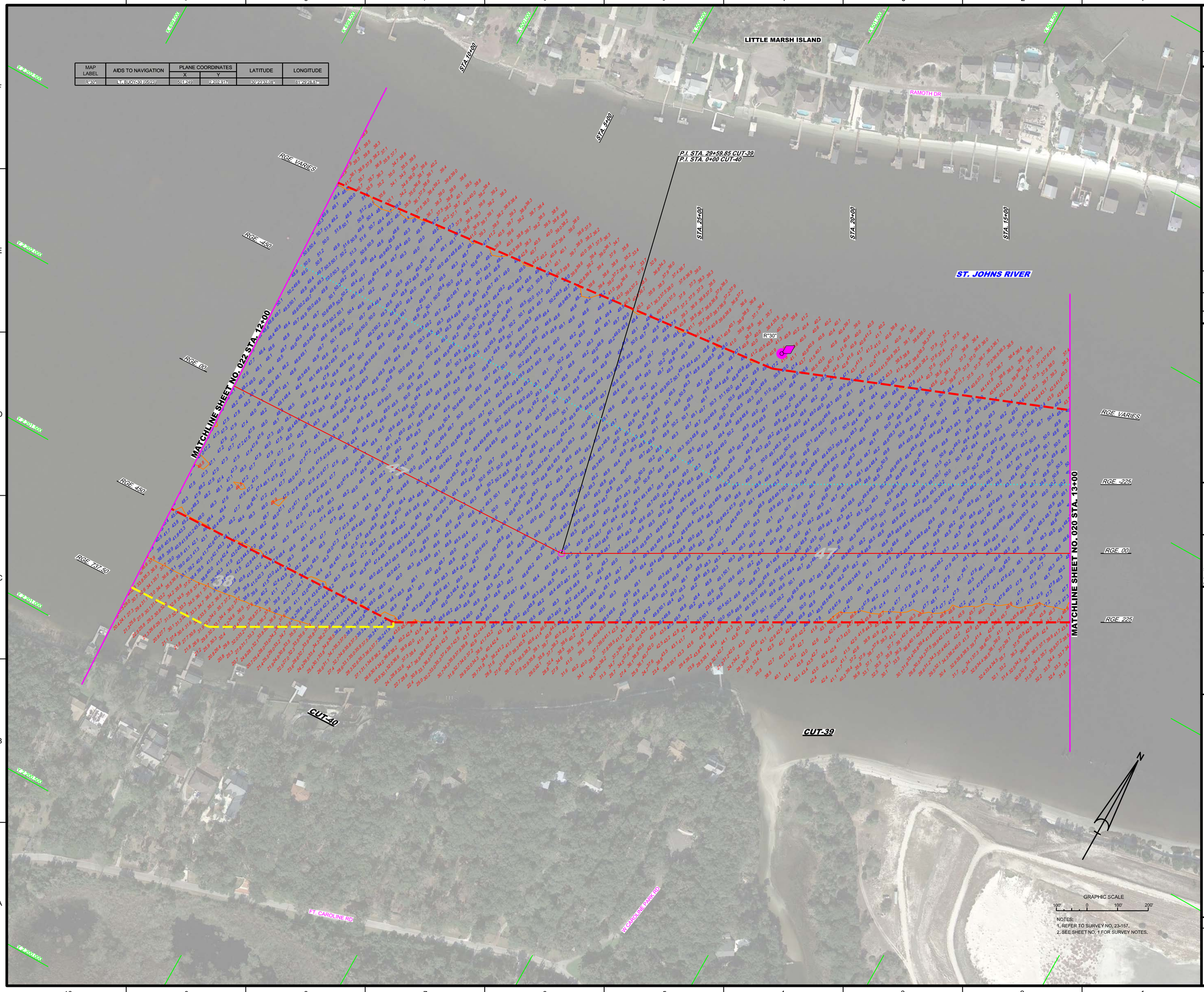
Scale: AS SHOWN

Drawing no.

2 / 19

SHEET 20 OF 57

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"30"	LT; BUOY;30 (05/23)	501,249	2,202,917	30°23'32.08"	81°29'28.87"



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

Cad by: CMR
Designed by: VRM
DWN by: VRM
Rev. No.
Date: MAY 2023

23-157A-CON38.DGN
23-157A-CON47.DGN
23-157A-CON47.DGN
23-157A-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
23-157A-CESHBRDR.DGN
Reference files:
23-157VH021.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 13+00 CUT-39 THRU STA. 12+00 CUT-40

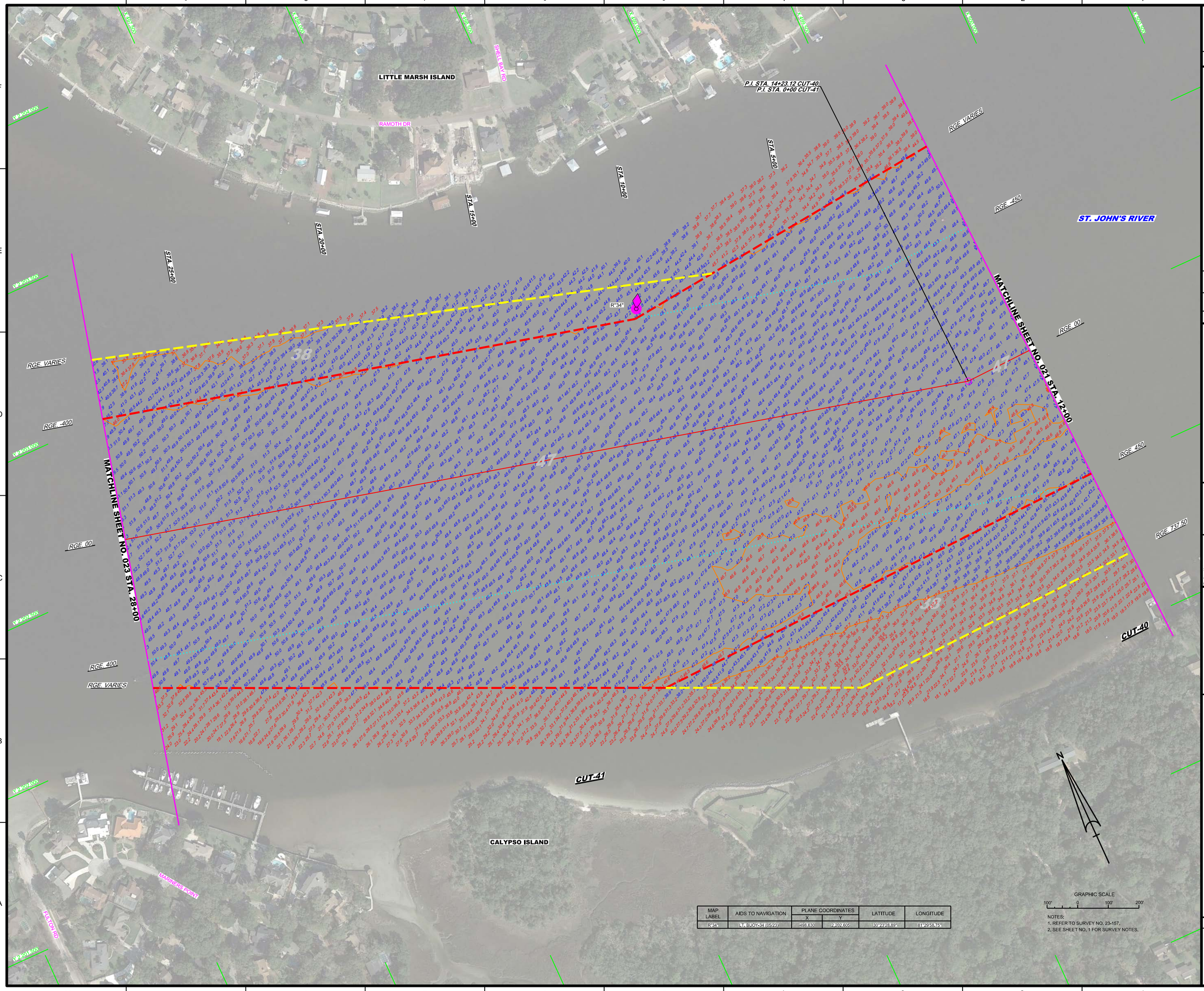
PLAN

Scale: AS SHOWN

Drawing no.

3 / 19

SHEET 21 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"34"	LT. BUOY-34 (05-23)	498,830	2,202,605	30°23'28.89"	81°29'58.75"

NOTES:
1. REFER TO SURVEY NO. 23-157.
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: MAY 2023

23-157-VCON38.DGN
23-157-VCON47.DGN
23-157-VCON48.DGN
23-157-VSOUN_ALLCUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-157-CESHORDR.DGN
Reference files:
23-157-VRH022.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 12+00 CUT-40 THRU STA. 28+00 CUT-41

PLAN

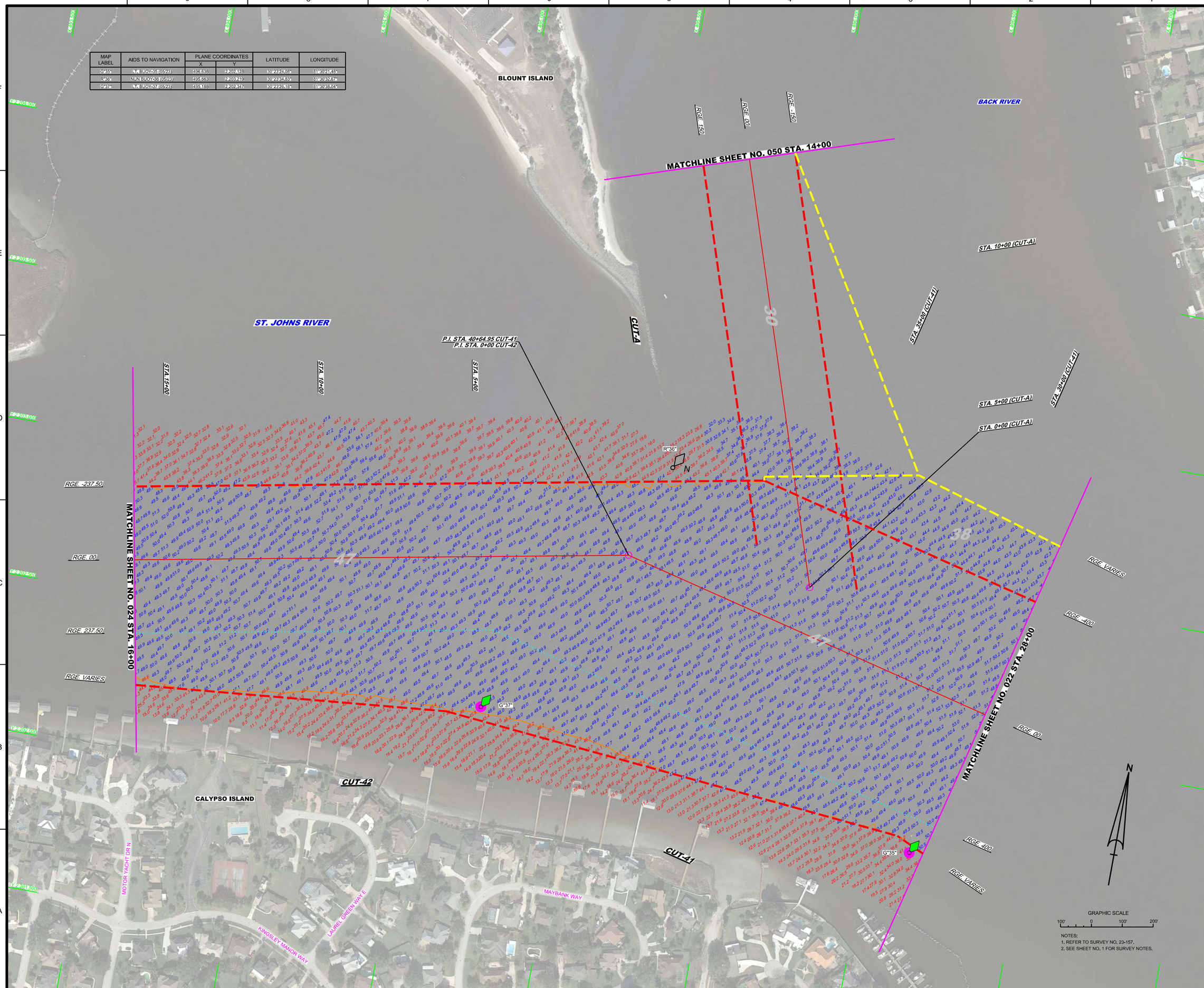
Scale: AS SHOWN

Drawing no.

4 / 19

SHEET 22 OF 57

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"35"	LT. BUOY-35 (05-23)	496,638	2,202,128	30°23'24.08"	81°30'21.48"
R"36"	NUN BUOY-36 (05-23)	495,663	2,203,219	30°23'34.83"	81°30'32.67"
G"37"	LT. BUOY-37 (05-23)	495,188	2,202,347	30°23'26.18"	81°30'38.04"



GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-157.
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
Proj. No.
Date: MAY 2023

23-157A-CON47.DGN
23-157A-SOUN.DGN
23-157A-SOUN_ALLCUTS.DGN
JAX HARBOR 47 EXTENSION-C-NGVICCF.DGN
23-157C-BR-BRDR.DGN
Reference files
23-157-AR-023.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

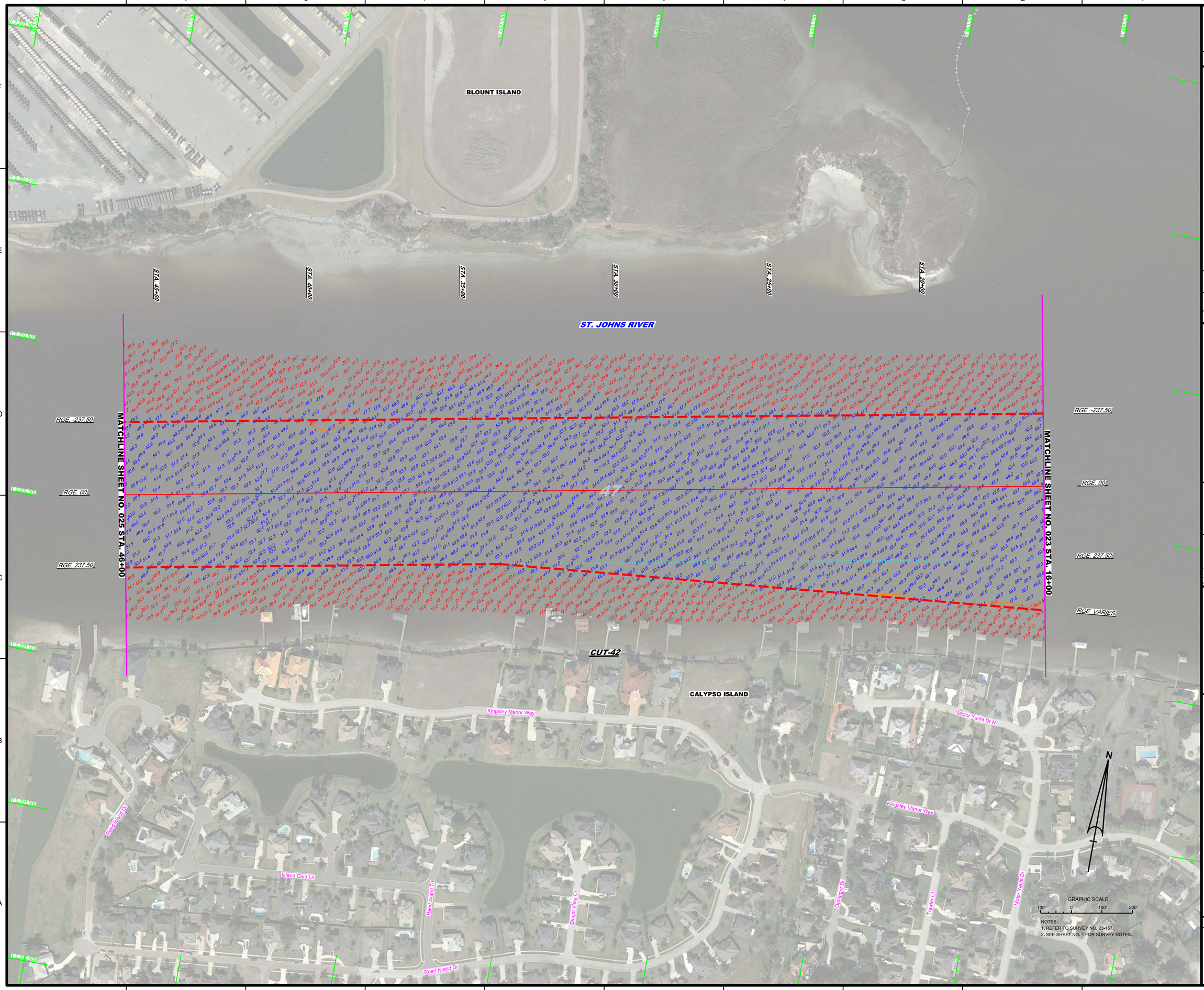
STA. 28+00 CUT-41 THRU STA. 16+00 CUT-42 &
STA. 0+00 THRU STA. 14+00 CUT-A

PLAN

Scale: AS SHOWN

Drawing no.
5 / 19

SHEET 23 OF 57



NOTES:
1. REFER TO SURVEY NO. 23-157.
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: MRM
DWN by: MRM
Ckd by: GMR
Proj. No.
Date: MAY 2023

23-157-A-CONUT.DGN
23-157-A-SOUN_ALL CUTS.DGN
JAX HARBOR 47 EXTENSION-C-NGVCCF.DGN
23-157-C-BS-BRDR.DGN
Reference files
23-157-AH-02A.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 16+00 THRU STA. 46+00 CUT-42

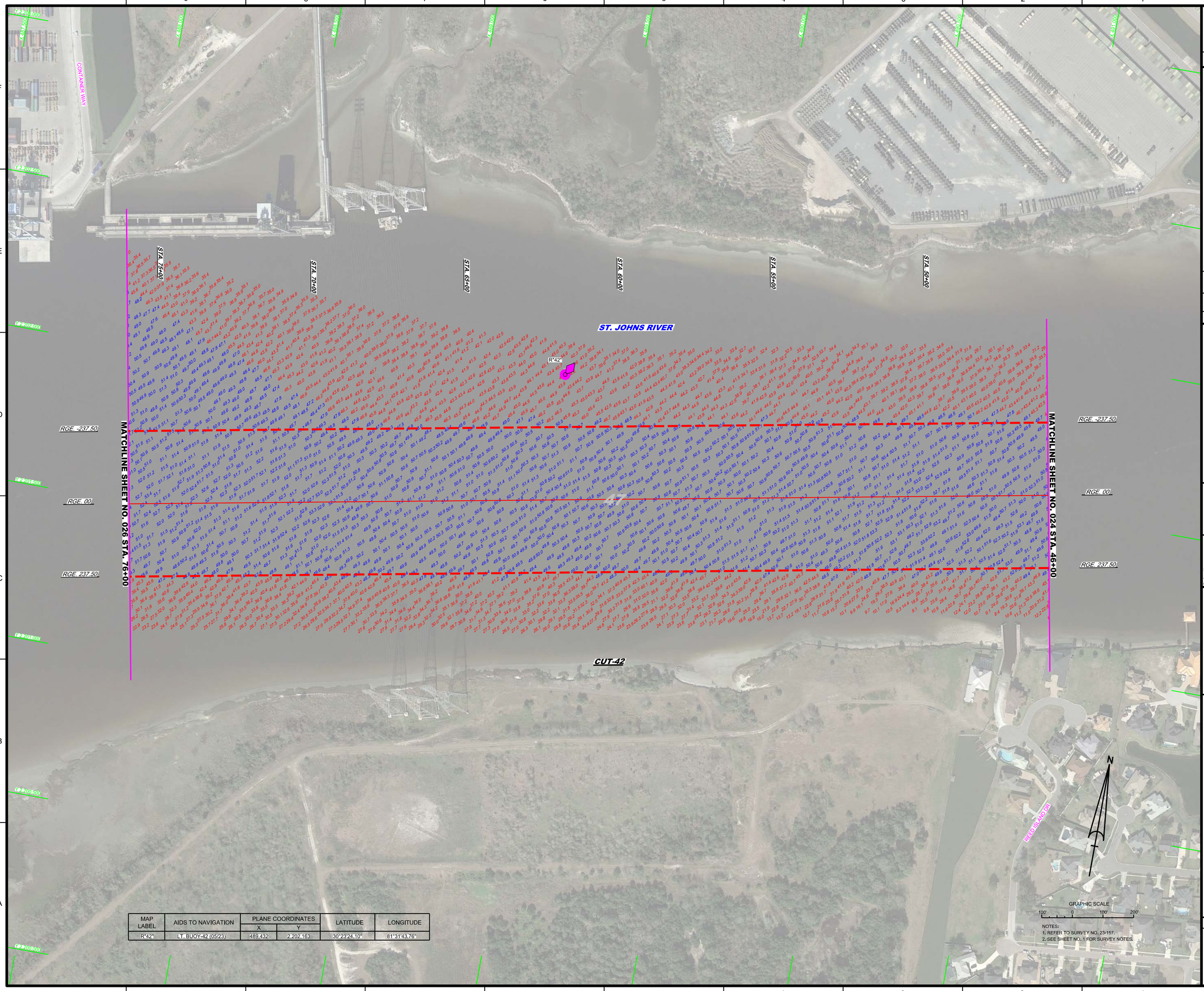
PLAN

Scale: AS SHOWN

Drawing no.

6 / 19

SHEET 24 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"42"	LT. BUOY-42 (05/23)	489,432	2,202,163	30°23'24.10"	81°31'43.76"

NOTES:
1. REFER TO SURVEY NO. 23-157.
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
Date: MAY 2023

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
23-157A-CONT47.DGN
23-157A-SHEET.DGN
23-157A-SOUN_ALL CUTS.DGN
JAX HARBOR 47 EXTENSION-C-NGVICCF.DGN
23-157C-BR-BRDR.DGN
Reference files

23-157-AHH25.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 46+00 THRU STA. 76+00 CUT-42

PLAN

Scale: AS SHOWN

Drawing no.

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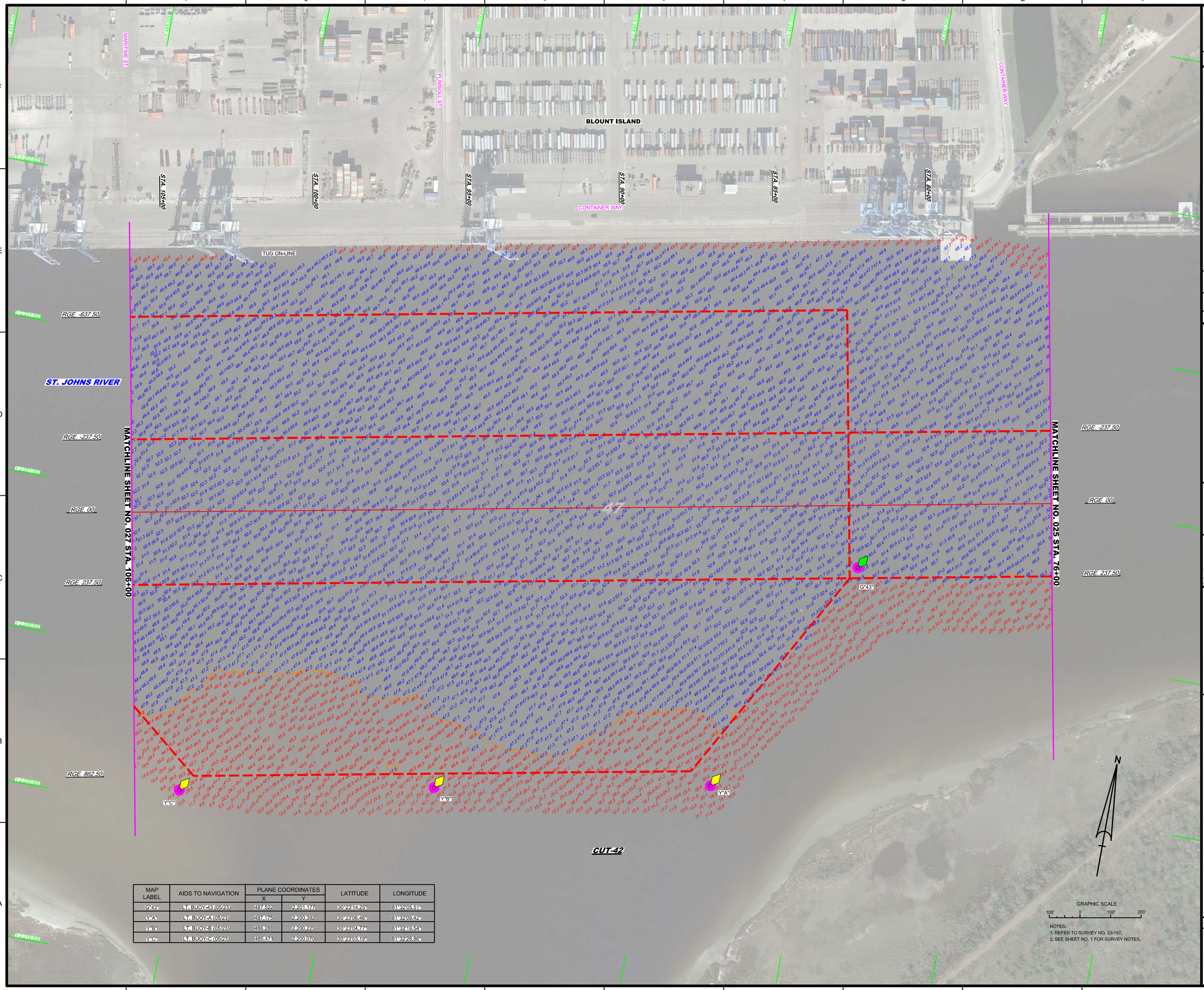
SHEET 25 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"43"	LT. BUOY-43 (05/23)	487,522	2,201,177	30°23'14.25"	81°32'05.51"
Y"A"	LT. BUOY-A (05/23)	487,175	2,200,392	30°23'06.46"	81°32'09.42"
Y"B"	LT. BUOY-B (05/23)	486,288	2,200,225	30°23'04.77"	81°32'19.54"
Y"C"	LT. BUOY-C (05/23)	485,471	2,200,070	30°23'03.19"	81°32'28.86"

NOTES:
1. REFER TO SURVEY NO. 23-157.
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
Ckd by: GMB
Rev. No.
Date: MAY 2023

23-157A-C20047.DGN
23-157A-MAY2023.DGN
23-157A-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
23-157A-CESHIPDR.DGN
Reference files:
23-157VHD26.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 76+00 THRU STA. 106+00 CUT-42

PLAN

Scale: AS SHOWN

Drawing no.

8 / 19

SHEET 26 OF 57

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

BLOUNT ISLAND

Propeller Dr

Container Way

Mariner St

STA.135+00

STA. 130+00

STA. 125+00

STA. 120+00

STA. 115+00

STA. 110+00

SHIP ON-LINE

RGE. VARIES

RGE. VARIES

RGE. -237.50

RGE. 00

RGE. 237.50

MATCHLINE SHEET NO. 028 STA. 136+00

MATCHLINE SHEET NO. 026 STA. 106+00

RGE. -237.50

RGE. 00

RGE. 237.50

"OBJECT"

Possible submerged object

G"45"

CUT-42

ST. JOHNS RIVER

N

GRAPHIC SCALE

100' 0 100' 200'

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"45"	LT. BUOY-45 (05/23)	484,948	2,200,620	30°23'08.61"	81°32'34.87"
"OBJECT"	POSSIBLE OBJECT (05/23)	482,324	2,200,029	30°23'02.64"	81°33'04.79"

NOTES:
1. REFER TO SURVEY NO. 23-157.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

No. Symbol Zone

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

Chief by: CMR
Designed by: VRM
DWN by: VRM
Rev. No.
Date: MAY 2023

23-157A-02N47.DGN
23-157A-03N40.DGN
23-157A-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
23-157A-05-BRDR.DGN
Reference files:
23-157A-VH027.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

2nd HOT SPOTS EXAM SURVEY FY23
30, 34, 38, 40 & 47-FOOT PROJECT

STA. 106+00 THRU STA. 136+00 CUT-42

PLAN

Scale: AS SHOWN

Drawing no.

9 / 19

SHEET 27 OF 57