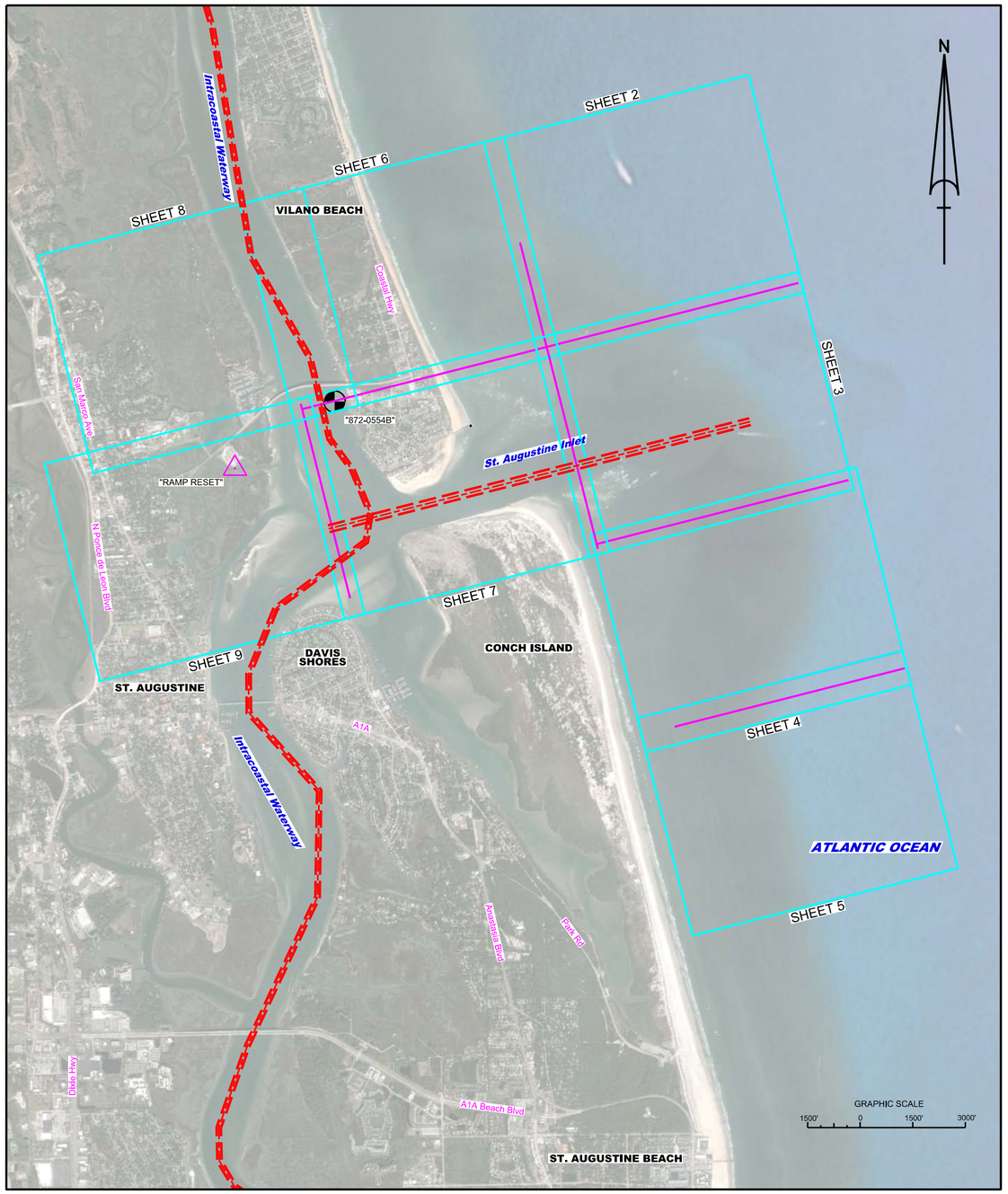
ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA
DAVIS, EBB AND FLOOD SHOALS
HYDROGRAPHIC EXAM SURVEY FY23
12 & 16-FOOT PROJECT



LOCATION MAP

SURVEY NOTES

1. REFER TO SURVEY NO. 23-165.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

   NOAA TIDAL STATION 872-0554 FOR ENTIRE PROJECT (PID: DL5712)
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 CURRENT REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83). BASED ON THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).
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 "RAMP RESET" (PID: BBCB11)

   TIDE STAFF LOCATED AT "872 0554 B TIDAL" (PID: DL5712)
7. VERTICAL MEASUREMENTS WERE MADE USING A TELEDYNE ECHOTRAC E20 DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL DEPTHS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	08 MAY 2023	IWW CUTS SJ-28 AND SJ-28A
SB-48	09 MAY 2023	EBB SHOAL
SB-48	10 MAY 2023	EBB SHOAL
SB-48	12 MAY 2023	EBB SHOAL
SB-48	14 MAY 2023	EBB SHOAL
SB-48	15 MAY 2023	EBB SHOAL
SB-48	16 MAY 2023	FLOOD SHOAL
SB-48	17 MAY 2023	EBB SHOAL AND DAVIS SHOAL
SB-48	18 MAY 2023	EBB SHOAL
SB-48	08 JUN 2023	EBB SHOAL

8. AIDS TO NAVIGATION WERE COLLECTED DURING THIS SURVEY.
9. 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.
10. 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
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

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

Designed by: VRM
DWN by: VRM
Ckd by: GS
Inv. No. W912EP-XX-X-XXXX
Dated: JUN 2023

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-165-XX-XXXX-SHOALS.DGN
IWW-C-NGMCF_DGN
ST AUG CHANNEL-C-NGMCF.DGN
22-165-C-BS-BRDR.DGN
Reference files:
22-165-V-001_SHOALS.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

INDEX, LOCATION AND VICINITY

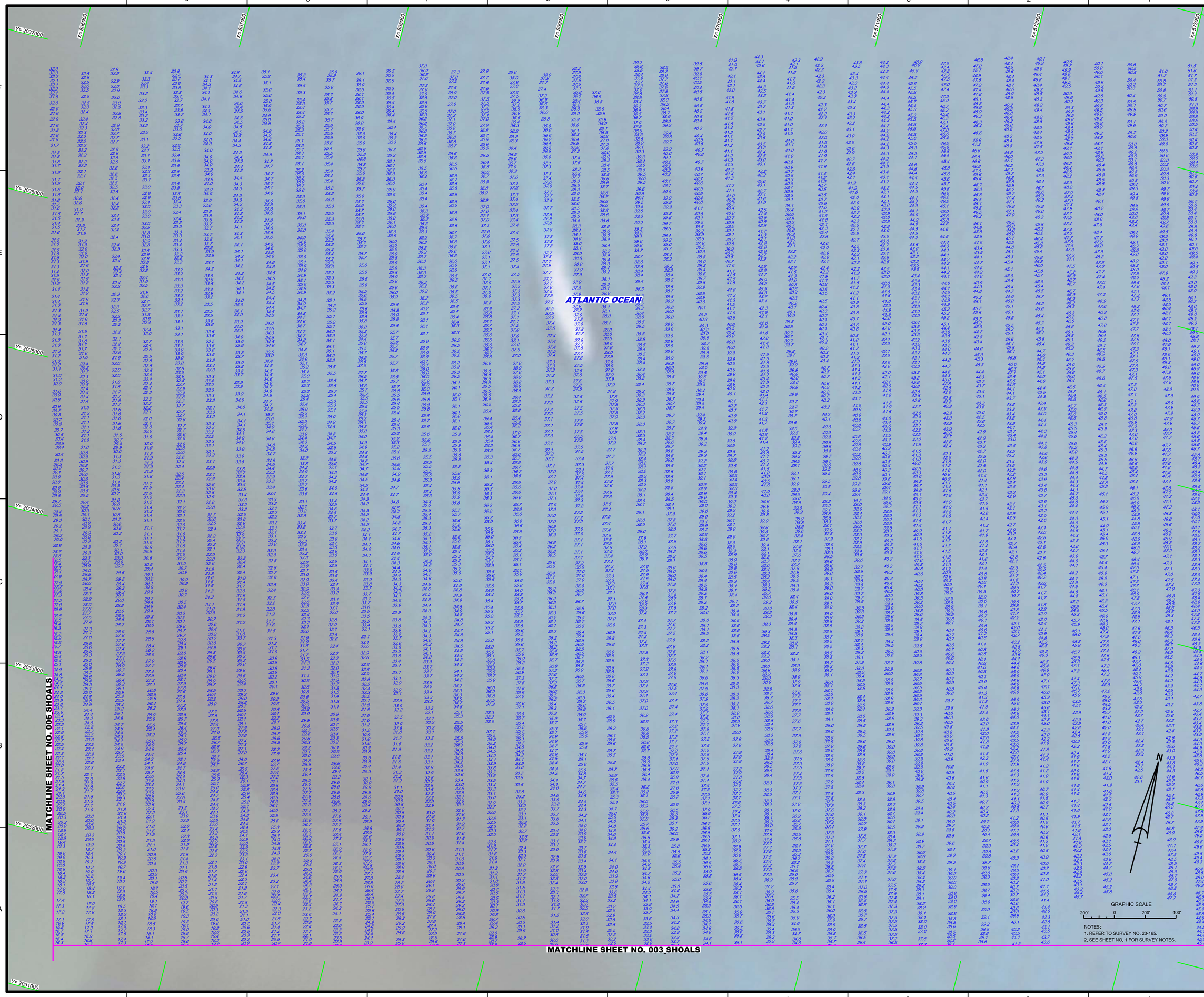
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 08



NOTES:
1. REFER TO SURVEY NO. 23-165.
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. W912EP-XX-C-XXXX
Date: JUN 2023

23-165-XX-SOUN_EBB_200.DGN
23-165-C-ES-BNDR.DGN
Reference files:
23-165-VH-002_SHOALS.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

EBB SHOALS

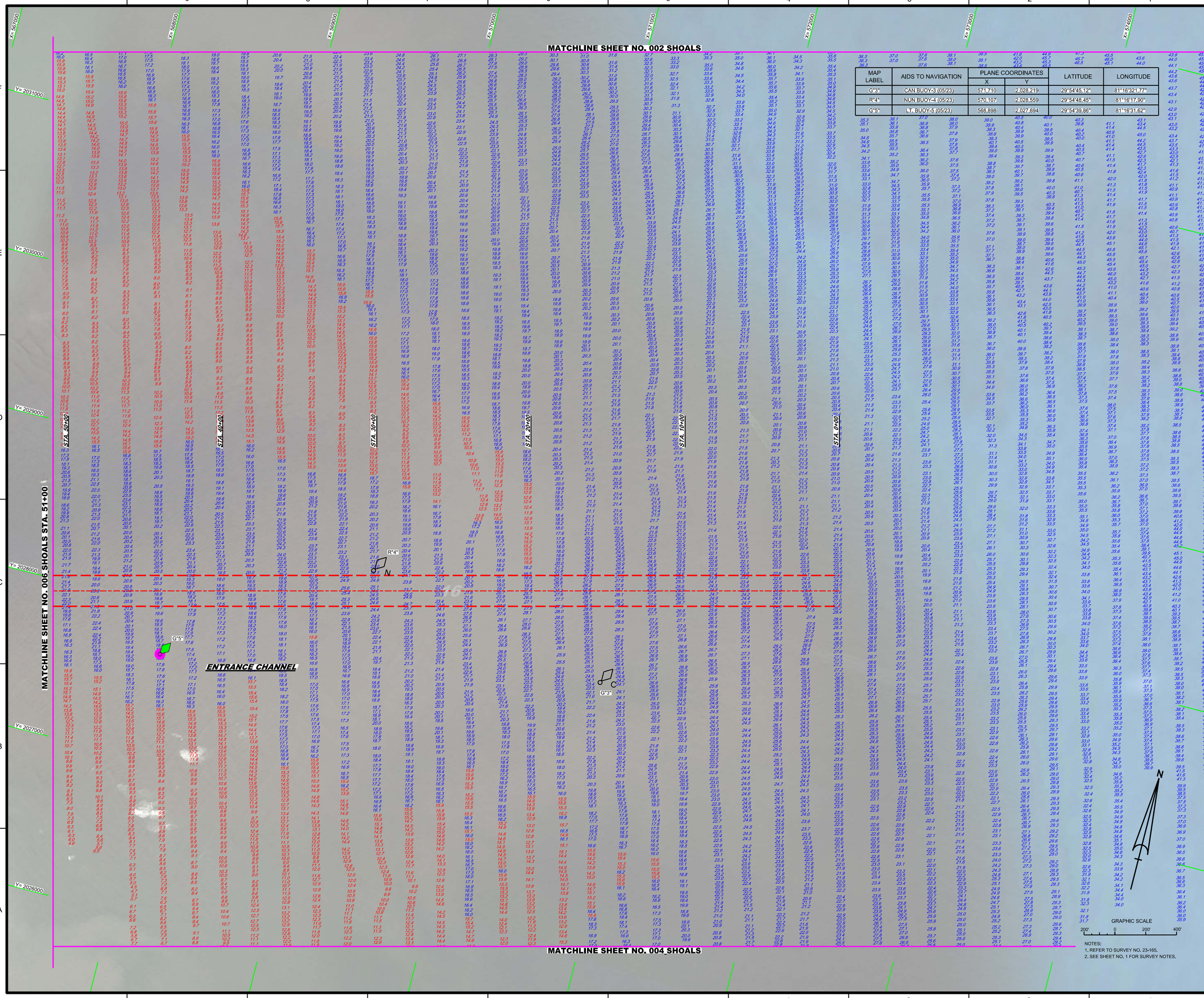
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 09



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"3"	CAN BUOY-3 (05/23)	571,710	2,028,219	29°54'45.12"	81°16'321.77"
R"4"	NUN BUOY-4 (05/23)	570,107	2,028,559	29°54'48.45"	81°16'17.90"
G"5"	LT. BUOY-5 (05/23)	568,898	2,027,694	29°54'39.86"	81°16'31.62"

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

Rev. Symbol Zone

Cad by: CMR
Designed by: WRM
DWN by: WRM
Rev. No. V991ZEP-XX-XXXXX
Date: JUN 2023

23-165-WVH003_SHOALS.DGN
File name:

23-165-NAV-SOUN.DGN
23-165-NAV-SOUN_EBB_200.DGN
ST AUG CHANNEL=CAGMCCF.DGN
23-165-CES-BRIDGE.DGN
Alternative files:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT
ENTRANCE CHANNEL STA. 0+00 THRU STA. 51+00 AND
EBB SHOALS AREA
PLAN

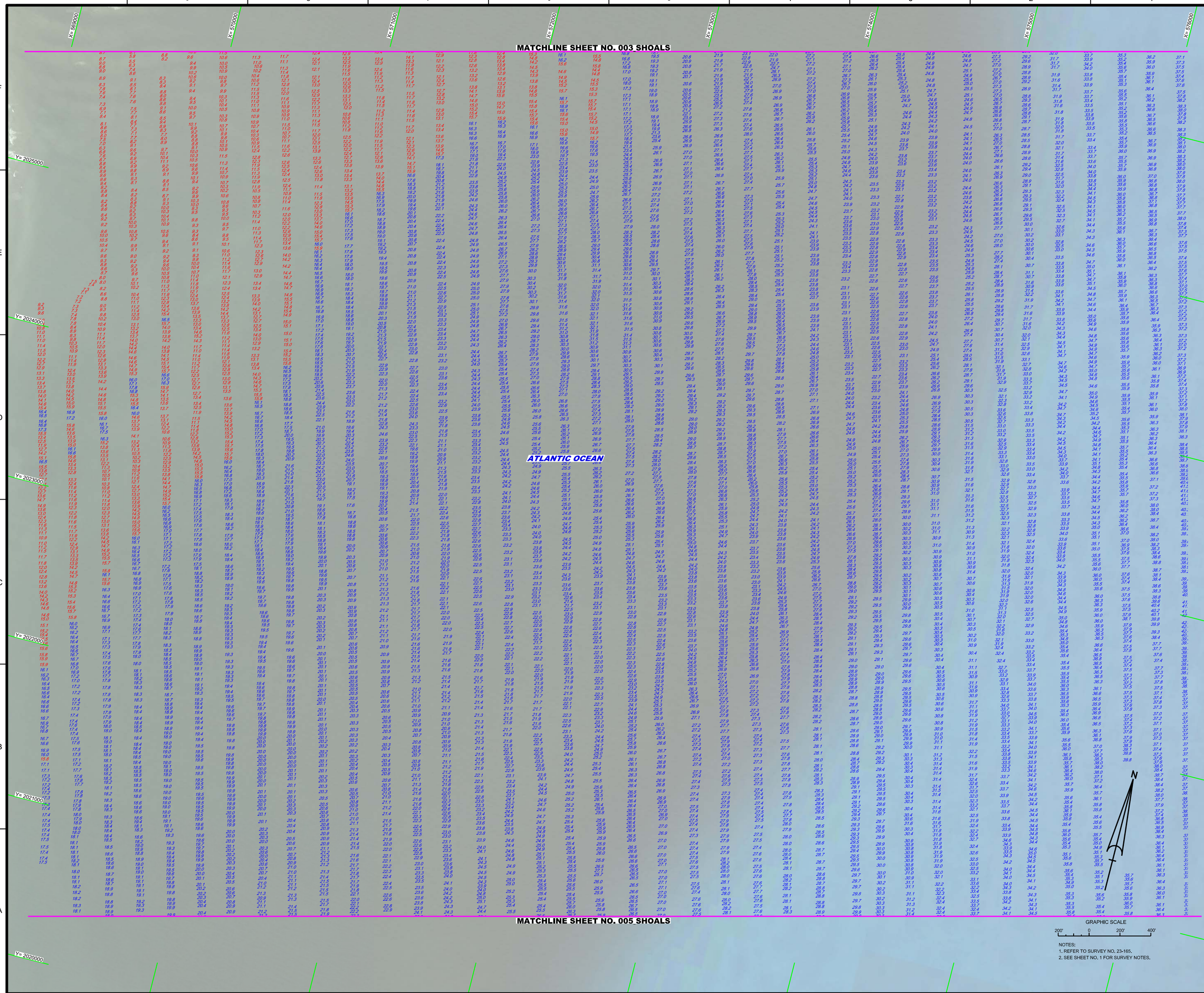
GRAPHIC SCALE
200' 0 200' 400'

NOTES:
1. REFER TO SURVEY NO. 23-165.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

Scale: AS SHOWN

Drawing no.
3

SHEET 03 OF 09



NOTES:
1. REFER TO SURVEY NO. 23-165.
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: CMR
Proj. No. V91F2EP-XX-X-XXXX
Date: JUN 2023

23-165-VX-SOUN_EBB_200.DGN
23-165-VX-CBS-BRDR.DGN
Reference files:
File name:

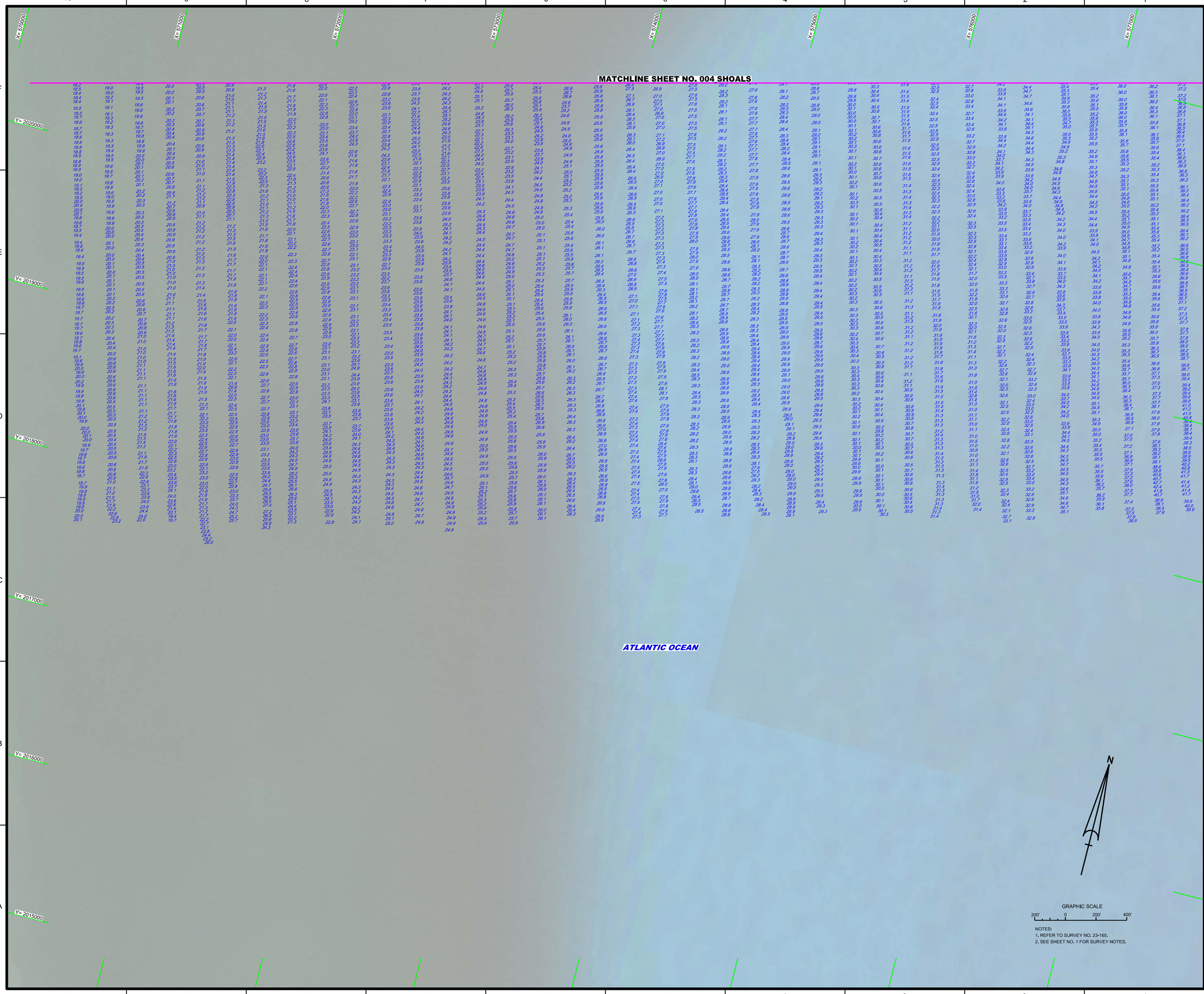
INTRACOASTAL WATERWAY
JACKSONVILLE DISTRICT, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT
EBB SHOALS
PLAN

Scale: AS SHOWN

Drawing no.
4

SHEET 04 OF 09



NOTES:
1. REFER TO SURVEY NO. 23-165.
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

Cad by: CMR
Designed by: WRM
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Date: JUN 2023

22-165-VA-SOUN_EBB_200.DGN
22-165-CAB-SHOALS-BRDR.DGN
Reference files

22-165-VH-005_SHOALS.DGN
File name

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

EBB SHOALS

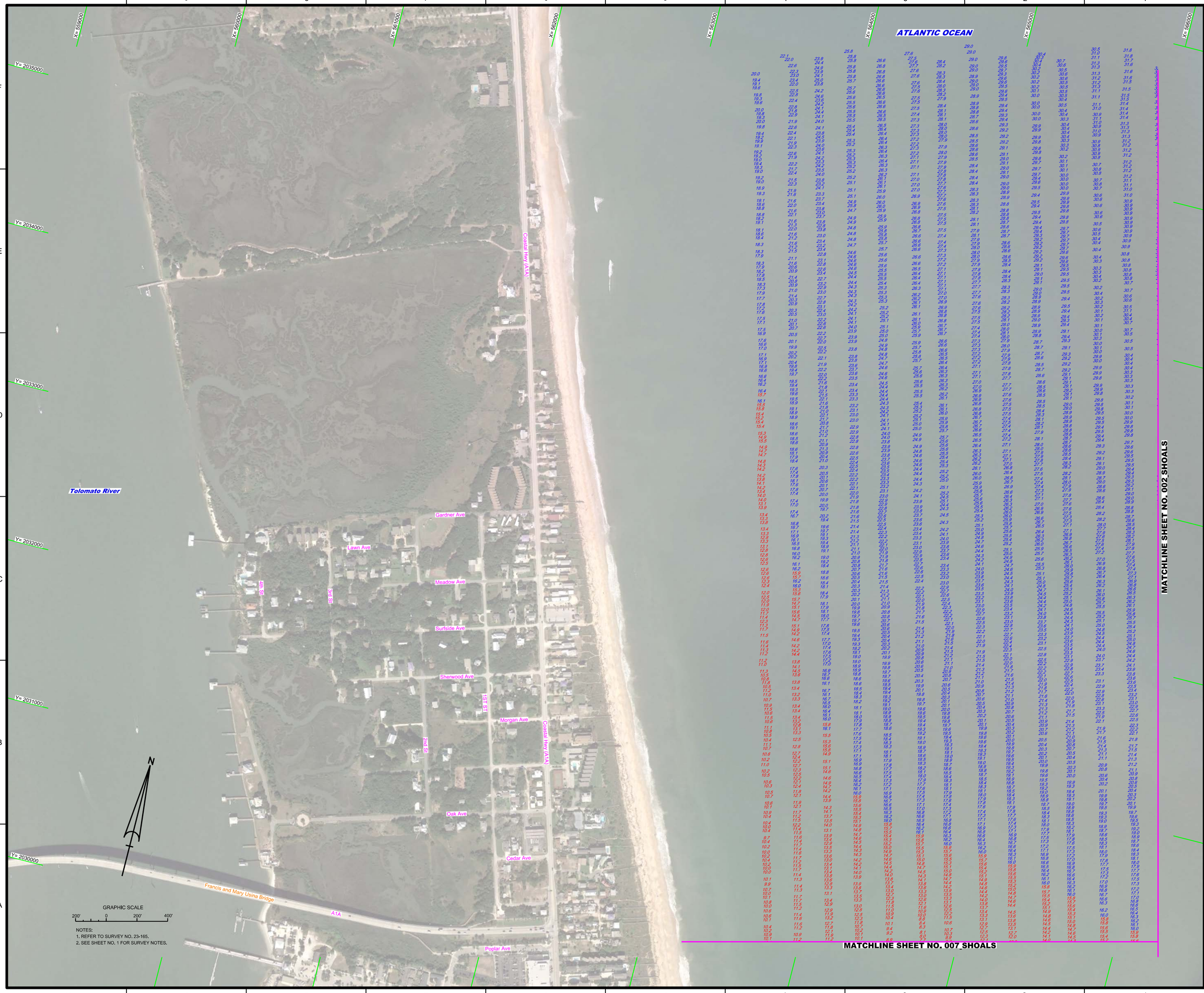
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 09



NOTES:
1. REFER TO SURVEY NO. 23-165.
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: GMR
Proj. No. V6123EP-XX-XX-XXX
Date: JUN 2023

23-165-V-SOUN_EBB_200.DGN
23-165-V-BS-BRDR.DGN
Reference files
23-165-VHK06_SHOALS.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

EBB SHOALS

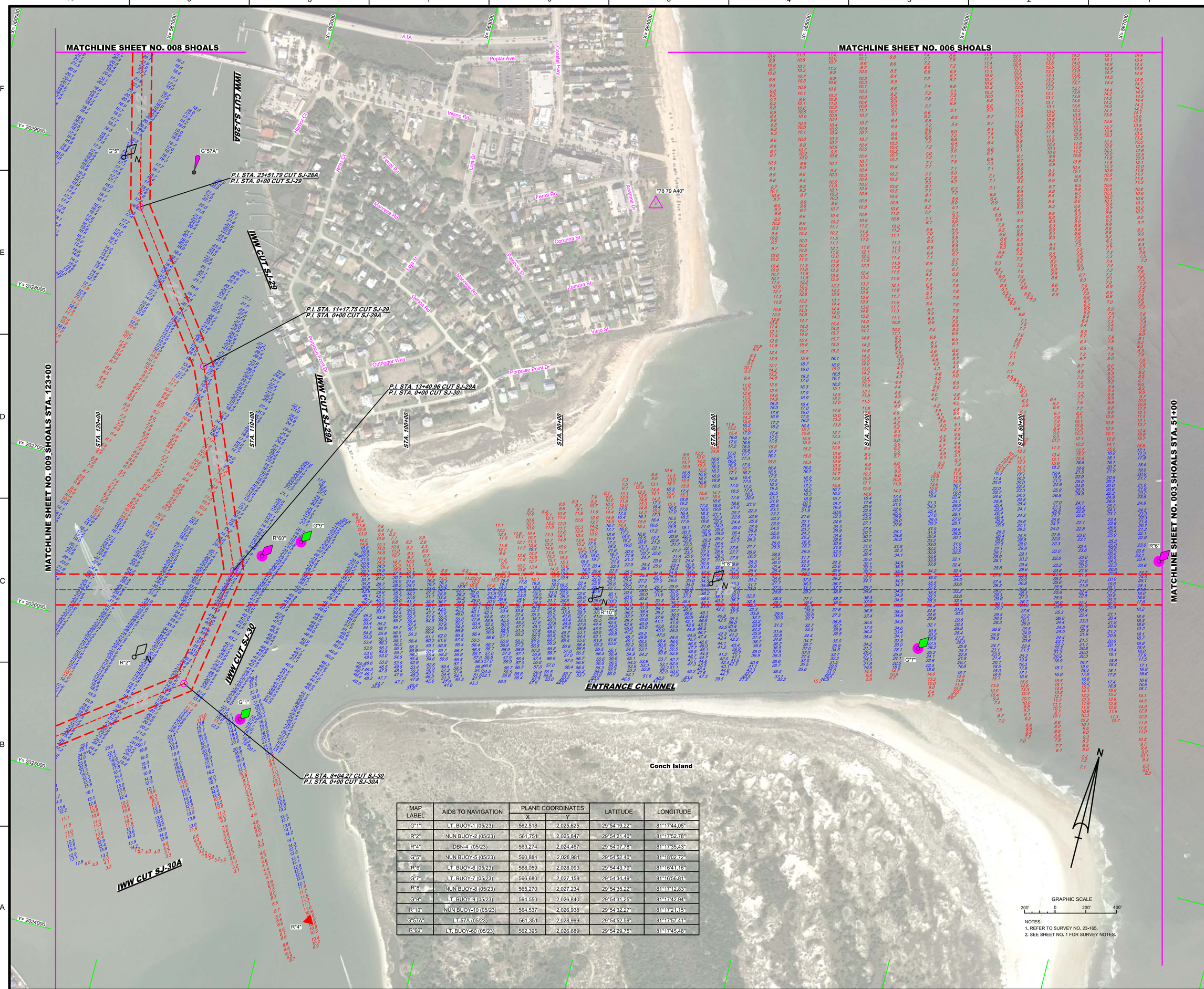
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 09



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"1"	LT. BUOY-1 (05/23)	562,518	2,025,625	29°54'19.22"	81°17'44.05"
R"2"	NUN BUOY-2 (05/23)	561,751	2,025,847	29°54'21.40"	81°17'52.78"
R"4"	DBN-4 (05/23)	563,274	2,024,467	29°54'07.78"	81°17'35.43"
G"5"	NUN BUOY-5 (05/23)	560,884	2,028,981	29°54'52.40"	81°18'02.72"
R"6"	LT. BUOY-6 (05/23)	568,059	2,028,093	29°54'43.79"	81°16'41.16"
G"7"	LT. BUOY-7 (05/23)	566,680	2,027,158	29°54'34.49"	81°16'56.81"
R"8"	NUN BUOY-8 (05/23)	565,270	2,027,234	29°54'35.22"	81°17'12.83"
G"9"	LT. BUOY-9 (05/23)	564,550	2,026,840	29°54'31.25"	81°17'42.94"
R"10"	NUN BUOY-10 (05/23)	564,537	2,026,938	29°54'32.27"	81°17'21.15"
G"57A"	LT-57A (05/23)	561,351	2,028,999	29°54'52.59"	81°17'57.41"
R"60"	LT. BUOY-60 (05/23)	562,395	2,026,689	29°54'29.75"	81°17'45.48"

NOTES:
1. REFER TO SURVEY NO. 23-165.
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

Chk'dby: GMR
Designed by: VRM
DWN by: VRM
Rev. No. W912EP-XX-C-XXXX
Date: JUN 2023

IWW-A-CAGMCCF.DGN
23-165A-NAV.DGN
23-165A-SOUN_FLOOD_200.DGN
23-165A-SOUN_FLOOD_TOPO.DGN
23-165A-SOUN_DAYS_200.DGN
ST AUG CHANNEL-CAGMCCF.DGN
23-165A-GBS-WRDR.DGN
Reference files
23-165A-H007_SHOALS.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

ENTRANCE CHANNEL, FLOOD SHOALS AREA 23+00, EBB SHOALS AREA 51+00, SHOALS AREAS

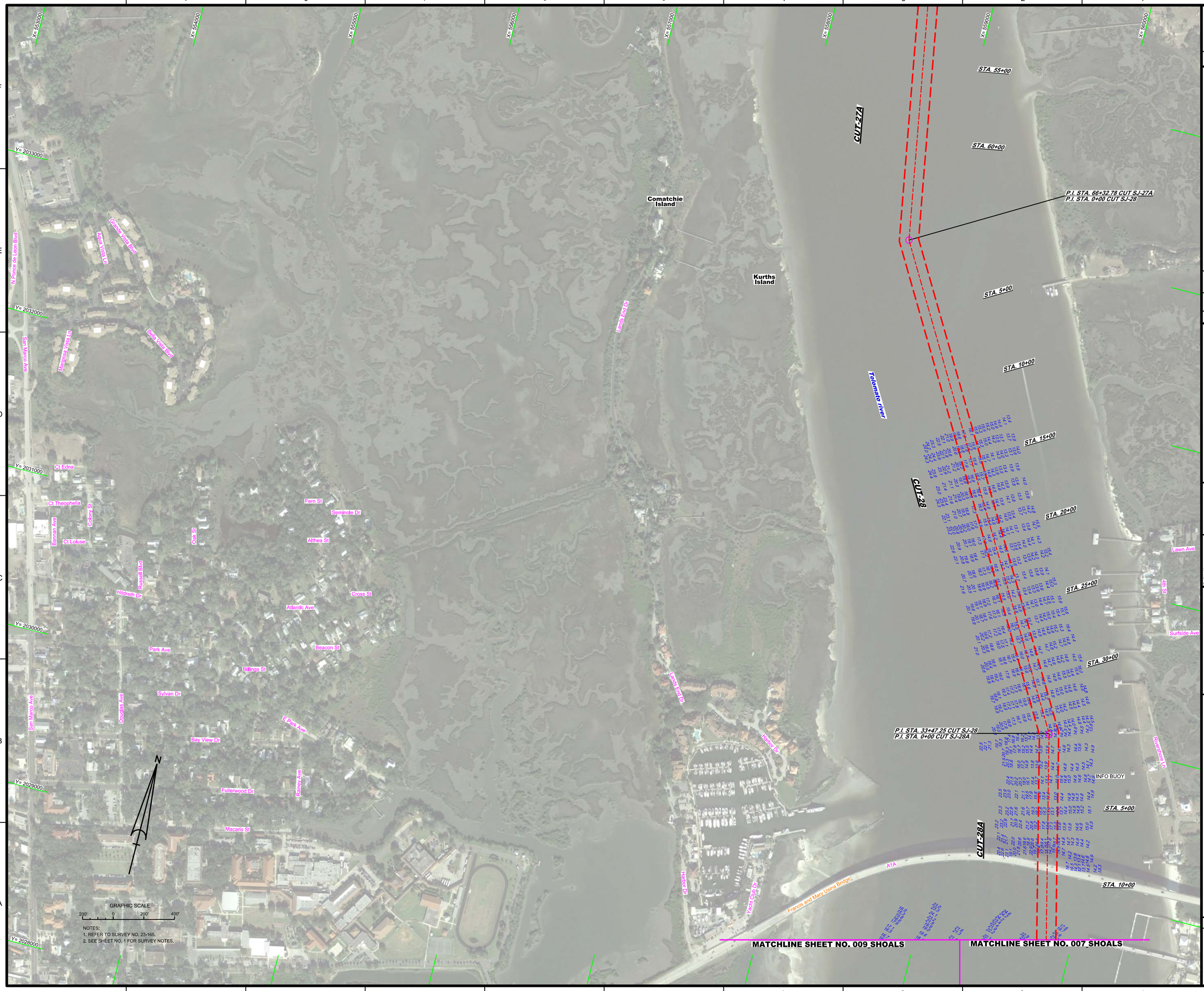
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 09



NOTES:
1. REFER TO SURVEY NO. 23-165.
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.: V912EP-XX-XX-XXXX
Date: JUN 2023

XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
23-165A-SOUN_C28.DGN
23-165A-SOUN_FLOOD.DGN
23-165A-SOUN_FLOOD_200.DGN
IWW-CC-NGMCCF.DGN
23-165C-BS-BRDR.DGN
Reference files

23-165-VHD08_SHOALS.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

CUTS SJ-27 THRU SJ-28A

PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 09

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2A"	LT-2A (05/23)	561,297	2,025,451	29°54'17.46"	81°17'57.92"
R"6"	LT-6 (05/23)	558,942	2,023,462	29°53'57.72"	81°18'24.62"

MATCHLINE SHEET NO. 008_SHOALS

MATCHLINE SHEET NO. 007_SHOALS STA. 123+00

STA. 124+00.29

"RAMP RESET"

R"2A"

R"6"

DOLPHINS

P.I. STA. 32+06.97 CUT SJ-30A
P.I. STA. 0+00 CUT SJ-31

IWW CUT SJ-31

IWW CUT SJ-30A

ST AUGUSTINE

CASTILLO DE SAN MARCOS

Vilano Causeway

Vista Cruz Dr

Perpall St
Alfred St
Milton St
Nelmar Ave
May St
E San Carlos Ave
Missouri Ave
Dufferin St
Matanzas Ave
Estey St
Cunningham Ave
Cleveland St
Magnolia Ave
Mandalia Ave
Ballard Ave
Sanchez Ave
Sebastian Ave
Ocean Ave
Old Mission Ave
Bernard St
Hope St
Cincinnati Ave
Pine St
Lorino St
1st St
Rohde Ave
East Ln
San Marco Ave
Abbott St
Osceola Ave
Locust St
Water St
Mulberry St
Joiner St
Grove Ave
W Castillo Dr
Shenandoah St
Cordova St
Orange St
Seville St
Spanish St
St George St
S Castillo Dr
Saragossa St
N Ponce de Leon Blvd

X= 553000
X= 554000
X= 555000
X= 556000
X= 557000
X= 558000
X= 559000
X= 560000
Y= 2027000
Y= 2026000
Y= 2025000
Y= 2024000
Y= 2023000
Y= 2020000

GRAPHIC SCALE
200' 0 200' 400'

NOTES:
1. REFER TO SURVEY NO. 23-165.
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
Inv. No. W912EP-XX-X-XXXX
Date: JUN 2023

23-165-VONAV.DGN
23-165A-SOUN_DAVIS_200.DGN
23-165A-SOUN_DAVIS_280.DGN
IWW-CANGICE.DGN
ST AUG CHANNEL-CANGMCCF.DGN
23-165-CABS-BRDR.DGN
Reference files

23-165-VH-009_SHOALS.DGN
File name

INTRACOASTAL WATERWAY
JACKSONVILLE TO MATANZAS, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12 AND 16-FOOT PROJECT

FLOOD SHOAL AREA

PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 09