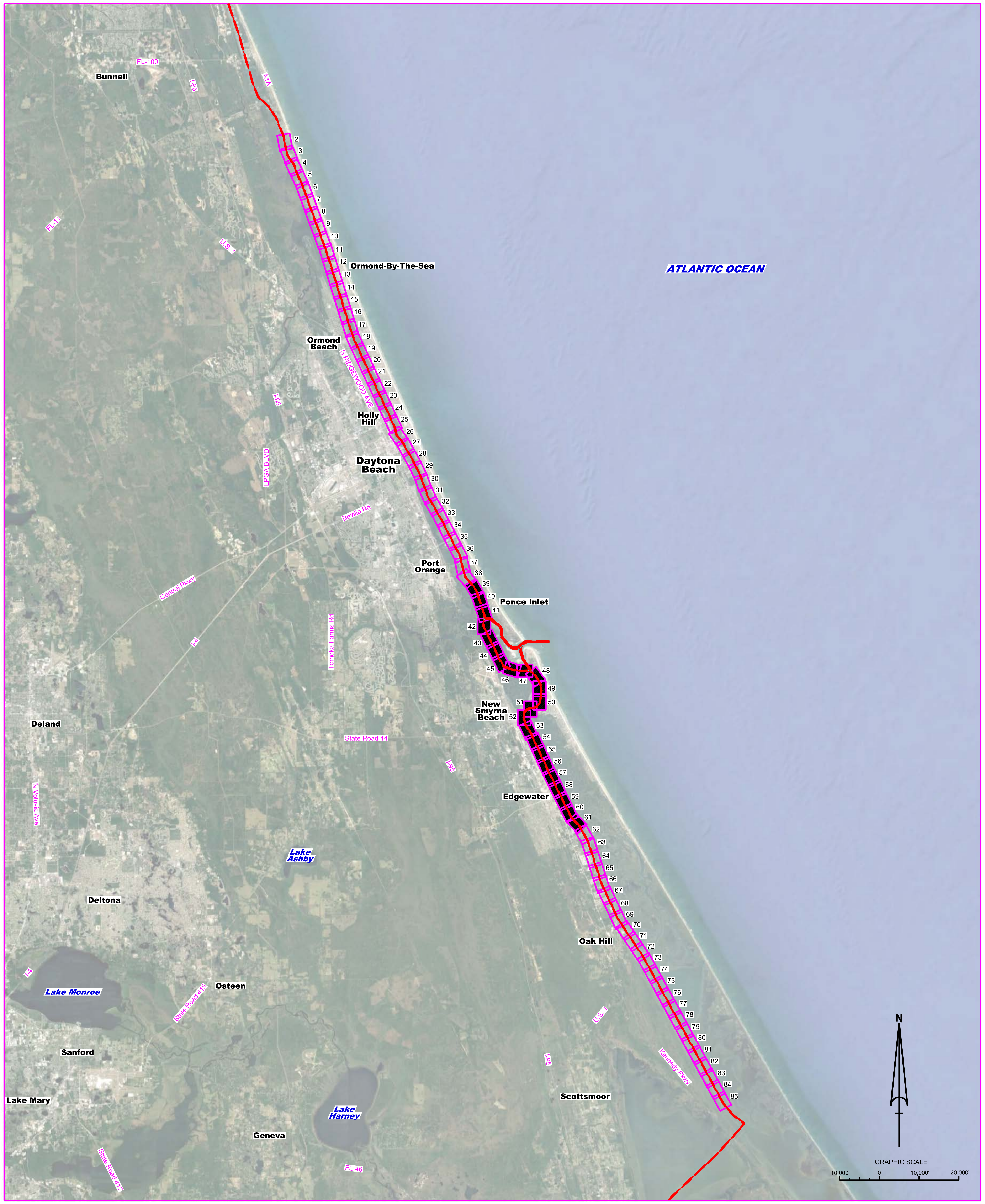
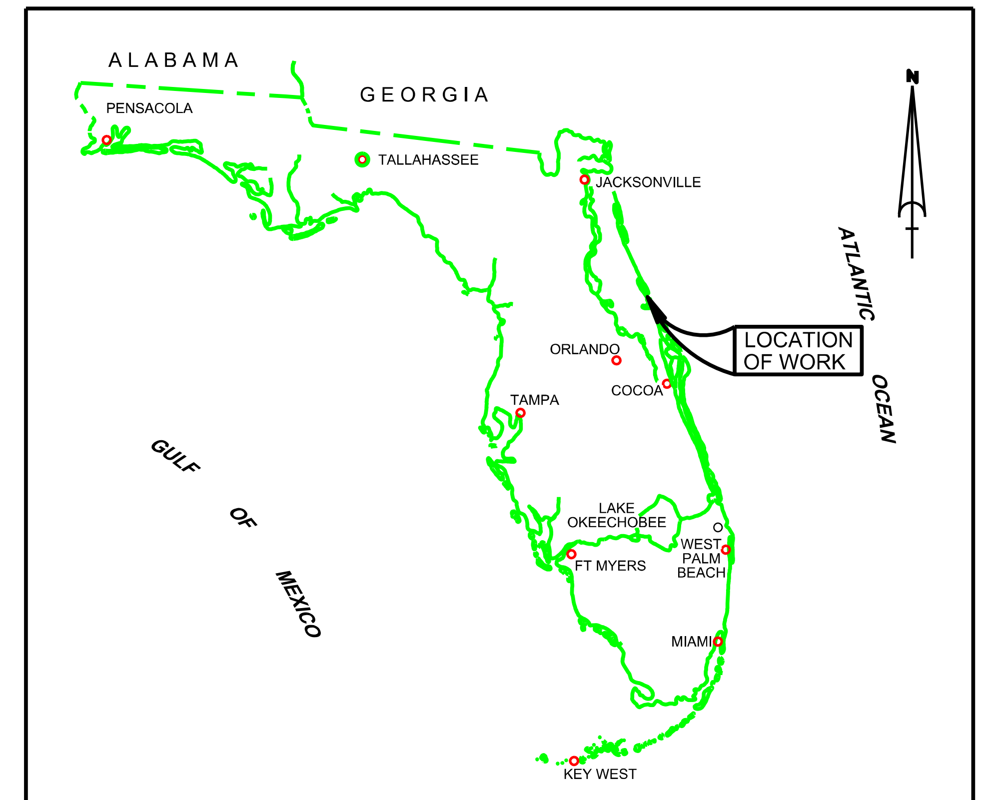




LOCATION MAP

IWW - JACKSONVILLE TO MIAMI
CUTS V22 THRU V40
VOLUSIA COUNTY, FL
AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 23-181.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "VOLUSIA-BREVARD (W-O_CANAVERALHBR_2021 10 04.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 EAST 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 "PDI-26" (PID: DK6691) FOR ALL PONCE DE LEON CUTS AND THE IWW FROM CUT V-22 THRU CUT V-38 STA 56+00

   REFERENCE BASE LOCATED AT "872-1191 E" (OPUS PID: DK6681) FOR IWW CUTS V-38 STA 56+00 THRU THE END OF CUT V-40
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO 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 "872-1147" FOR ALL PONCE DE LEON CUTS AND THE IWW CUTS V-22 THRU V-38 STA 56+00

   NOAA TIDAL STATION "872-1191" FOR IWW CUTS V-38 STA 56+00 THRU V-40

   VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER MODEL 835C WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SV AMELIA	15 AUG 2023	CUT-3S
SV AMELIA	17 AUG 2023	CUT-13N
SV AMELIA	21 AUG 2023	CUTS V28 - V30
SV AMELIA	22 AUG 2023	CUTS V25 - V27
SV AMELIA	11 SEP 2023	CUT V22
SV AMELIA	12 SEP 2023	CUTS V23 - V-24, V31-33
SV AMELIA	13 SEP 2023	CUTS V34 - V37
SV AMELIA	14 SEP 2023	CUTS V38 - V40

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.

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

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Dated: SEP 2023

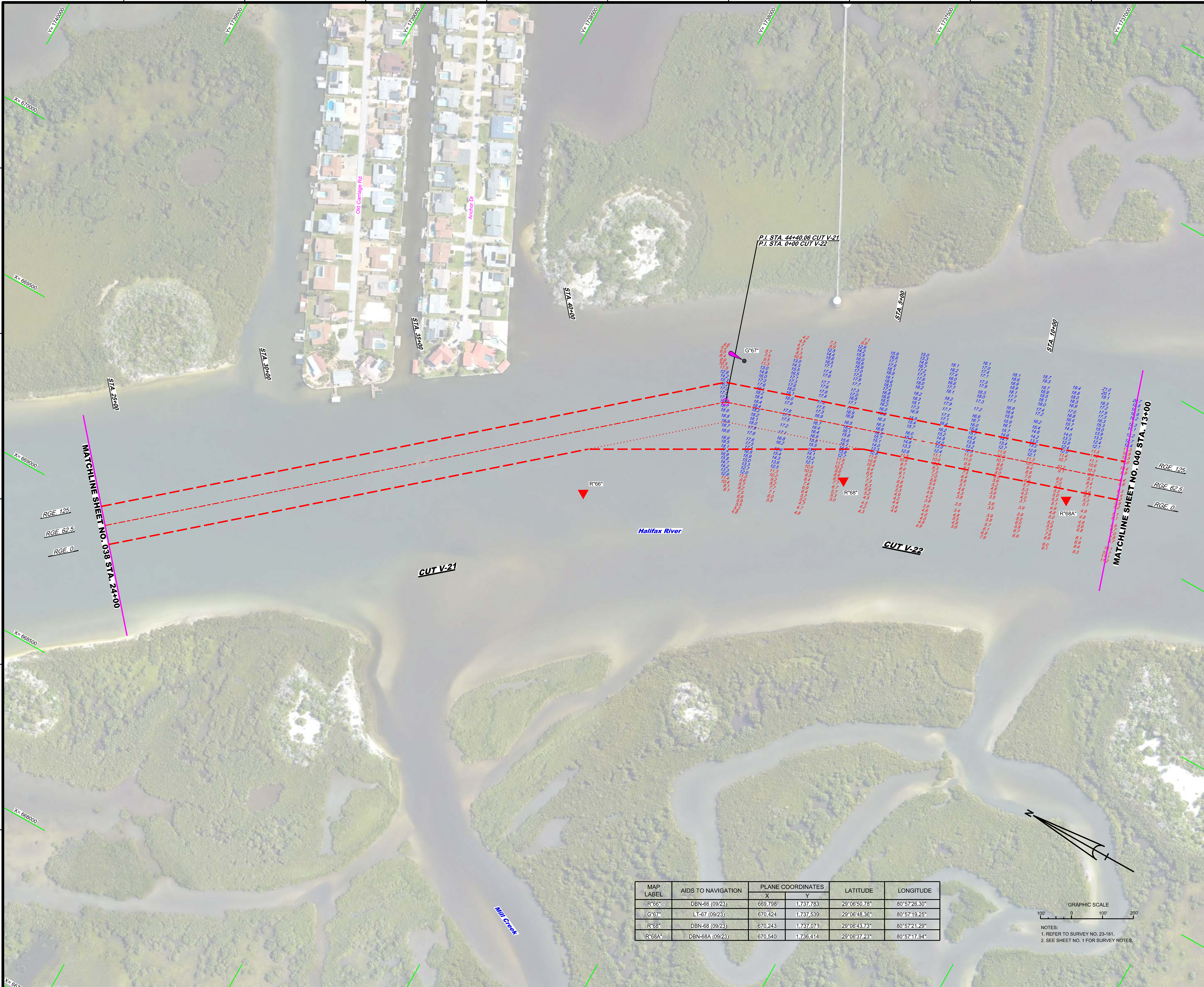
Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-INDEX_VO.DGN
PONCE INLET-C-NGMCCF_2017.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-001_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY
AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1 / 24



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"66"	DBN-66 (09/23)	669,798	1,737,783	29°06'50.78"	80°57'26.30"
G"67"	LT-67 (09/23)	670,424	1,737,539	29°06'48.36"	80°57'19.25"
R"68"	DBN-68 (09/23)	670,243	1,737,071	29°06'43.73"	80°57'21.29"
R"68A"	DBN-68A (09/23)	670,540	1,736,414	29°06'37.23"	80°57'17.94"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Dated: SEP 2023

Reference files:
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V22.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-039_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 24+00 CUT V-21 THRU STA. 13+00 CUT V-22

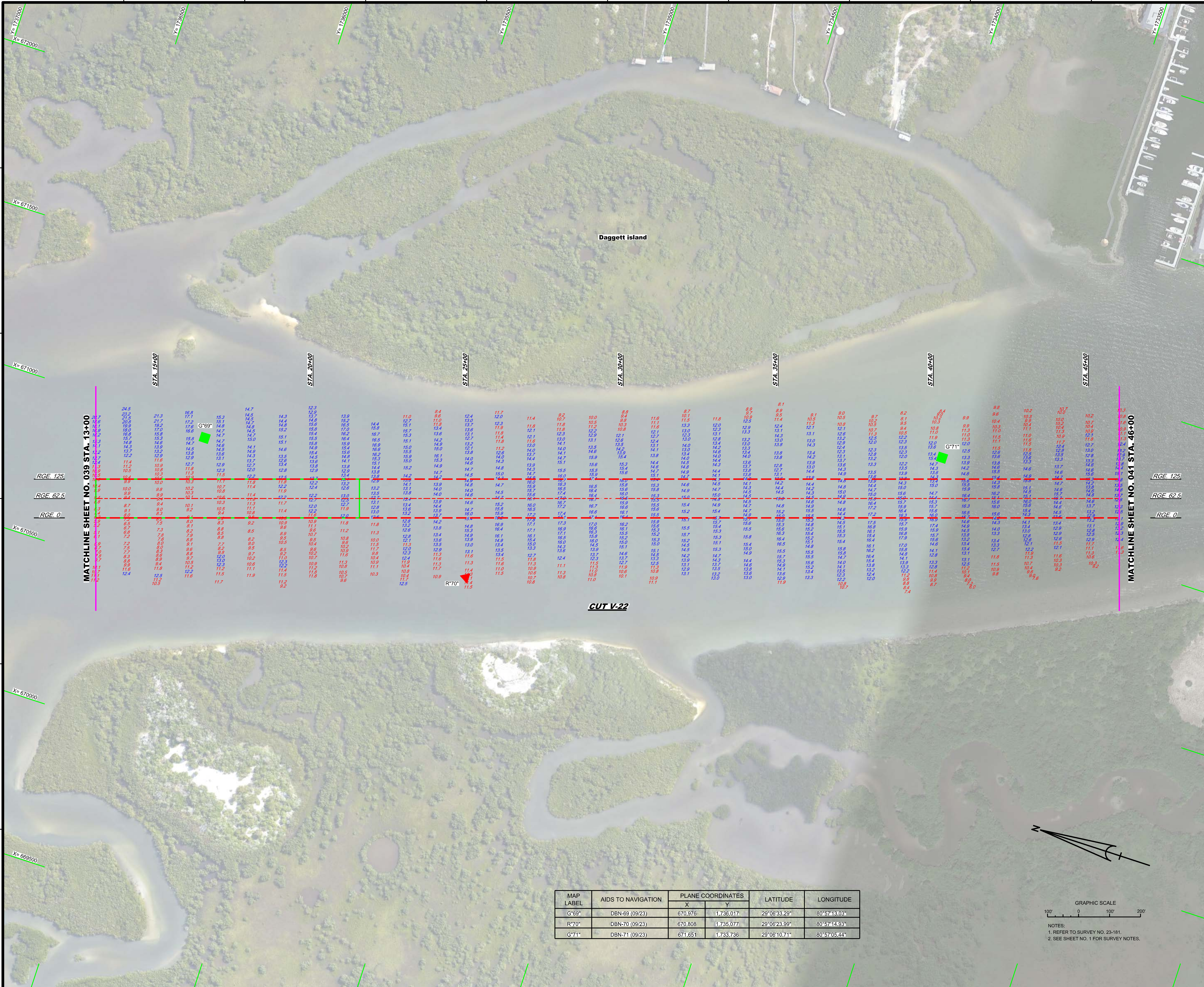
PLAN

Scale: AS SHOWN

Drawing no.

2 / 24

SHEET 39 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"69"	DBN-69 (09/23)	670,976	1,736,017	29°06'33.29"	80°57'13.03"
R"70"	DBN-70 (09/23)	670,808	1,735,077	29°06'23.99"	80°57'14.93"
G"71"	DBN-71 (09/23)	671,651	1,733,736	29°06'10.71"	80°57'05.44"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V22.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-040_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 13+00 THRU STA. 46+00 CUT V-22

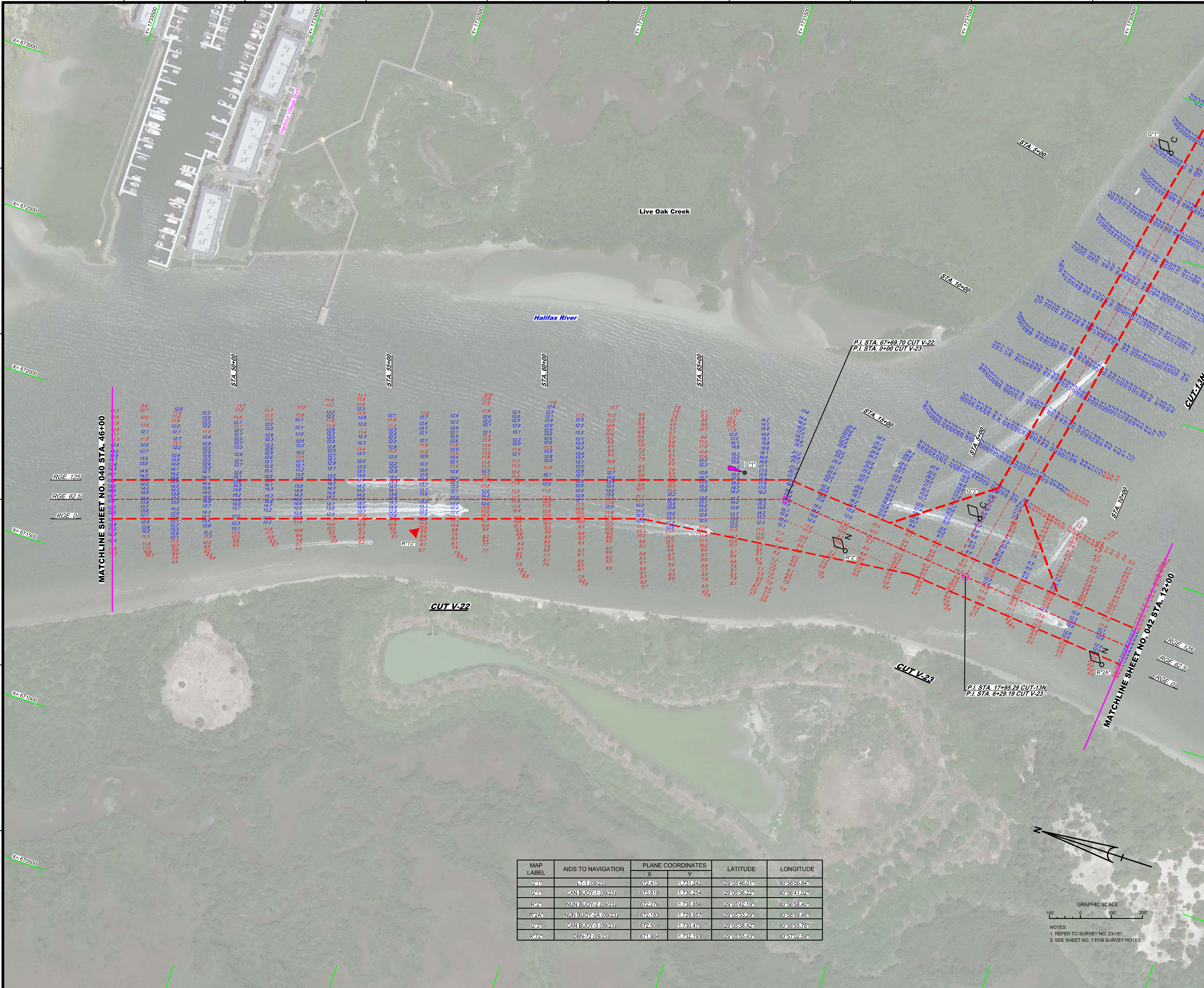
PLAN

Scale: AS SHOWN

Drawing no.

3 / 24

SHEET 40 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"1"	LT-1 (09/23)	672,415	1,731,242	29°05'46.01"	80°56'56.84"
G"1"	CAN BUOY-1 (09/23)	673,818	1,730,254	29°05'36.22"	80°56'41.02"
R"2"	NUN BUOY-2 (09/23)	672,276	1,730,856	29°05'42.19"	80°56'58.40"
R"2A"	NUN BUOY-2A (09/23)	672,183	1,729,957	29°05'33.29"	80°56'59.46"
G"3"	CAN BUOY-3 (09/23)	672,509	1,730,475	29°05'38.42"	80°56'55.78"
R"72"	DBN-72 (09/23)	671,904	1,732,193	29°05'55.43"	80°57'02.59"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_C13N.DGN
23-181-V-SOUN_V22.DGN
23-181-V-SOUN_V23.DGN
IWW-C-NGMCCF.DGN
PONCE INLET-C-NGMCCF_2017.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-041_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

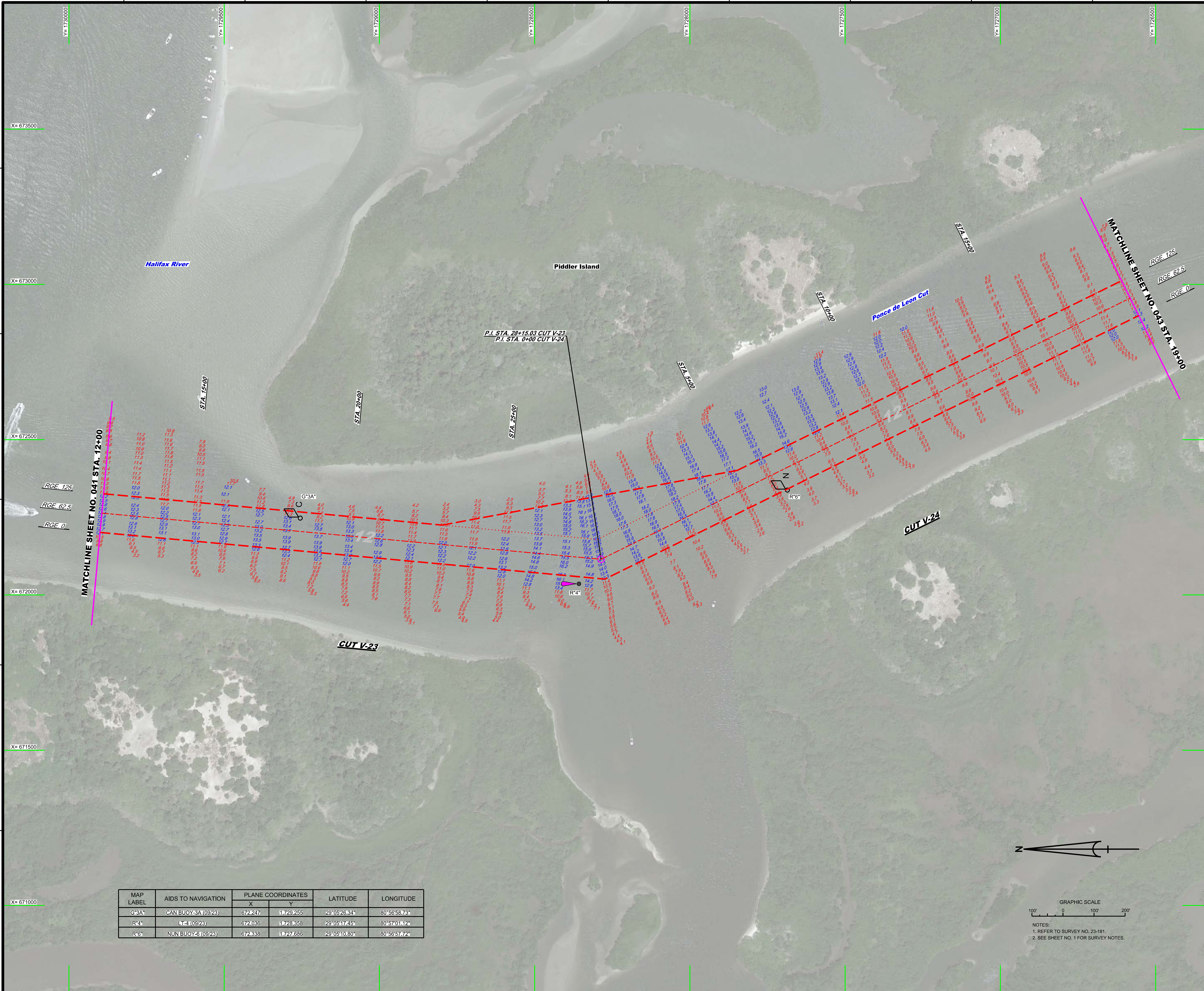
STA. 46+00 CUT V-22 THRU STA. 12+00 CUT V-23

PLAN

Scale: AS SHOWN

Drawing no.
4 / 24

SHEET 41 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3A"	CAN BUOY-3A (09/23)	672,247	1,729,255	29°05'26.34"	80°56'58.73"
R"4"	LT-4 (09/23)	672,036	1,728,358	29°05'17.45"	80°57'01.12"
R"6"	NUN BUOY-6 (09/23)	672,338	1,727,686	29°05'10.80"	80°56'57.72"

NOTES:
1. REFER TO SURVEY NO. 23-181.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Designed by: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
23-181-V-NAV.DGN
23-181-V-SOUN_V23.DGN
23-181-V-SOUN_V24.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-042_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

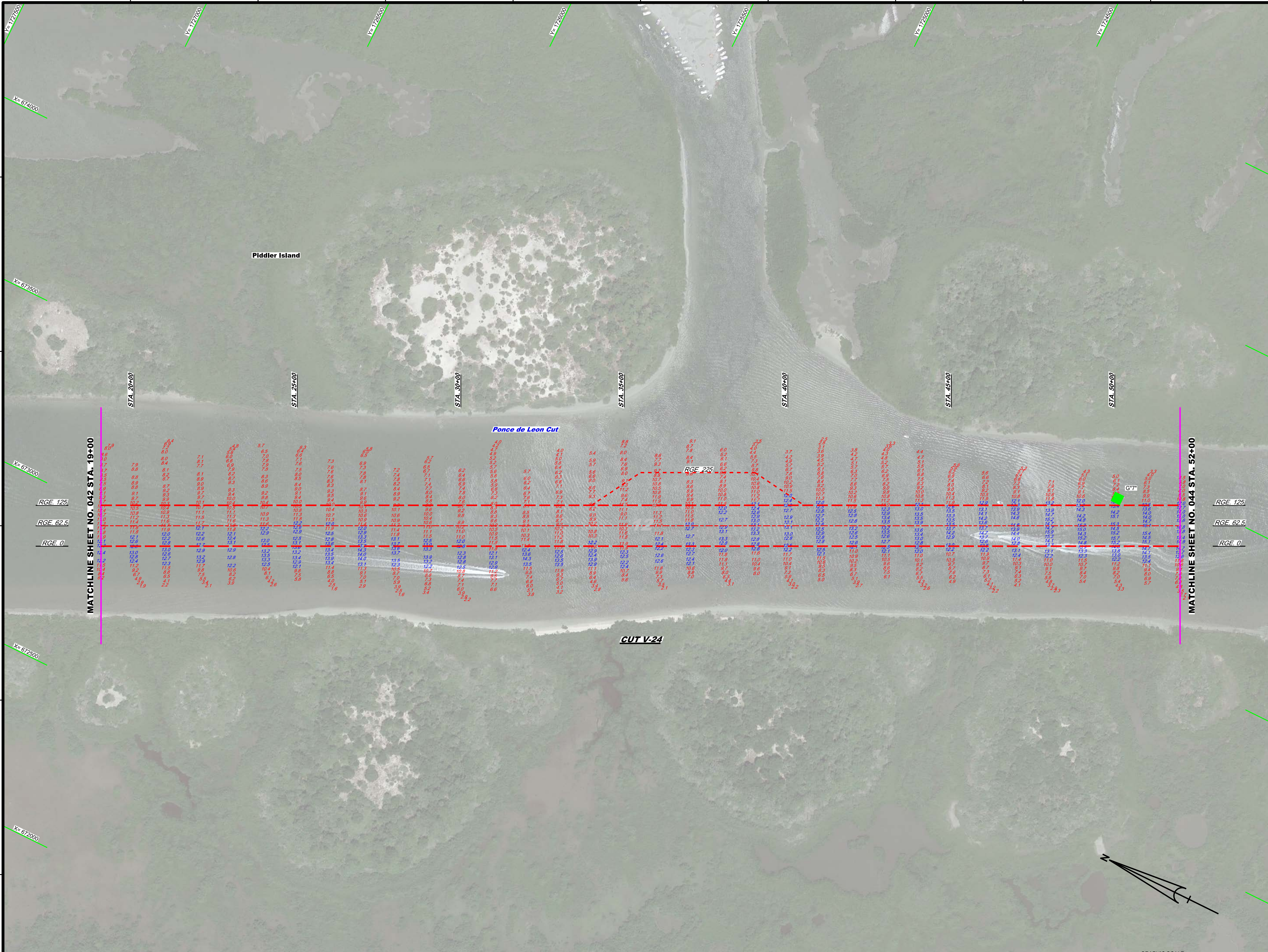
AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 12+00 CUT V-23 THRU STA. 19+00 CUT V-24

PLAN

Scale: AS SHOWN

Drawing no.



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"7"	DBN-7 (09/23)	674,406	1,723,831	29°04'32.63"	80°56'34.43"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V24.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-043_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

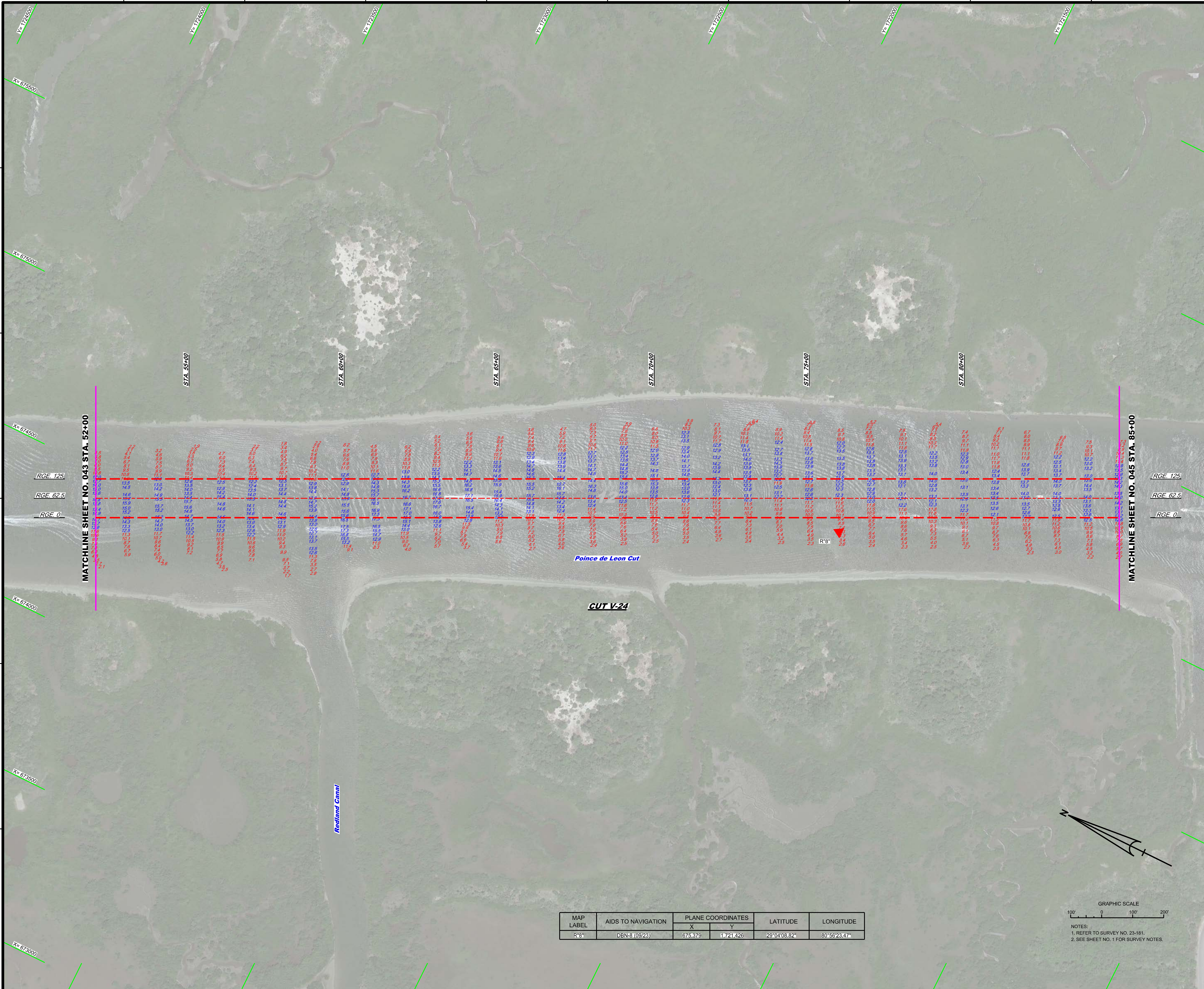
STA. 19+00 THRU STA. 52+00 CUT V-24

PLAN

Scale: AS SHOWN

Drawing no.
6 / 24

SHEET 43 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"8"	DBN-8 (09/23)	675,379	1,721,426	29°04'08.82"	80°56'23.47"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V24.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-044_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

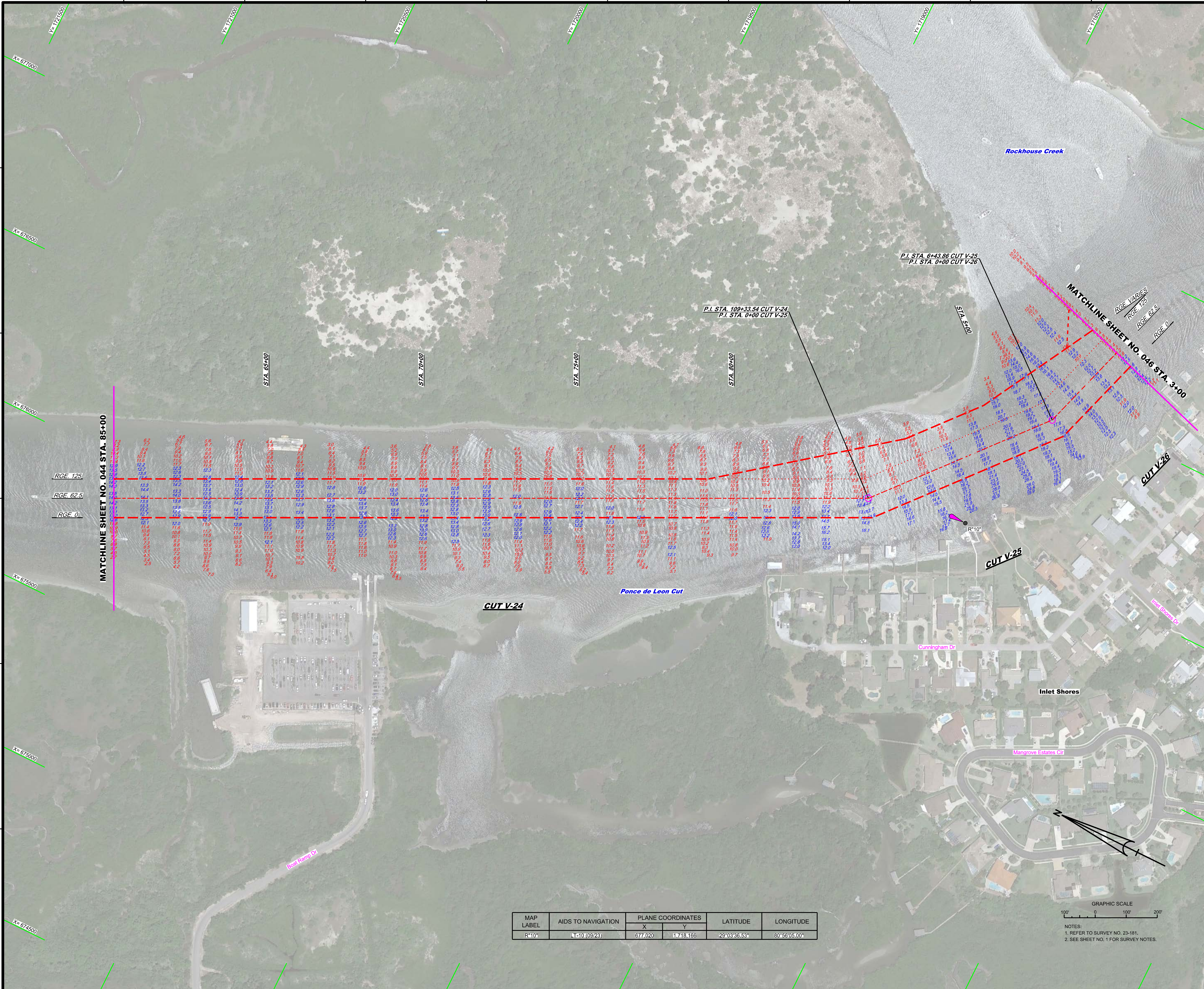
AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 52+00 THRU STA. 85+00 CUT V-24

PLAN

Scale: AS SHOWN

Drawing no.
7 / 24



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"10"	LT-10 (09/23)	677,020	1,718,166	29°03'36.53"	80°56'05.00"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 23-181.
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
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V24.DGN
23-181-V-SOUN_V25.DGN
23-181-V-SOUN_V26.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-045_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 85+00 CUT V-24 THRU STA. 3+00 CUT V-26

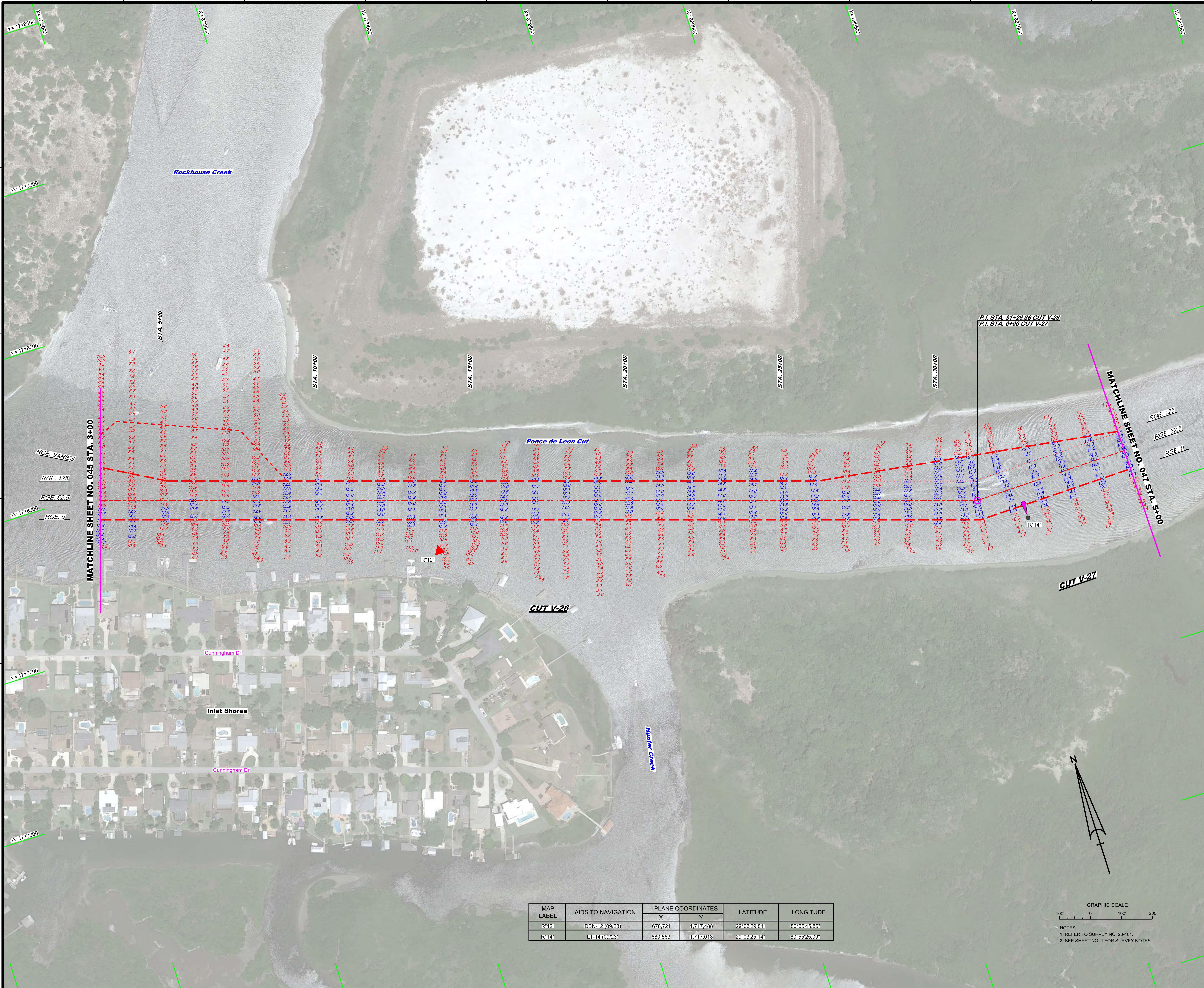
PLAN

Scale: AS SHOWN

Drawing no.

8 / 24

SHEET 45 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12"	DBN-12 (09/23)	678,721	1,717,488	29°03'29.81"	80°55'45.85"
R"14"	LT-14 (09/23)	680,563	1,717,018	29°03'25.14"	80°55'25.09"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Dated: SEP 2023

Reference files:
XXXXXXX-X-XXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V26.DGN
23-181-V-SOUN_V27.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-046_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

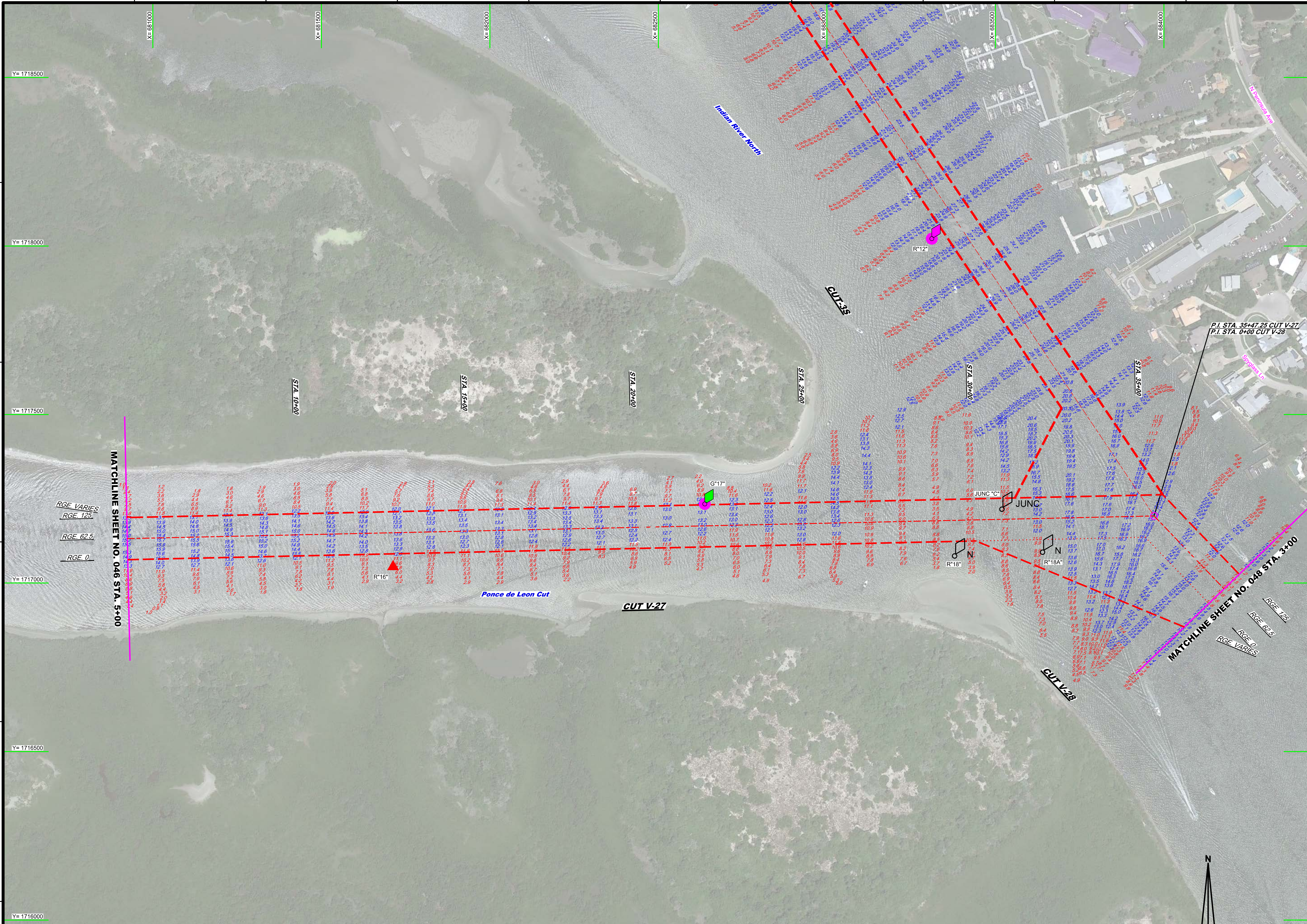
STA. 3+00 CUT V-26 THRU STA. 5+00 CUT V-27

PLAN

Scale: AS SHOWN

Drawing no.
9 / 24

SHEET 46 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12"	LT. BUOY-12 (08/23)	683,311	1,718,022	29°03'35.06"	80°54'54.11"
R"16"	DBN-16 (09/23)	681,713	1,171,048	29°03'25.44"	80°55'12.13"
G"17"	LT. BUOY-17 (09/23)	682,638	1,717,235	29°03'27.27"	80°55'01.71"
R"18"	NUN BUOY-18 (09/23)	683,379	1,717,080	29°03'25.74"	80°54'53.36"
R"18A"	NUN BUOY-18A (09/23)	683,640	1,717,092	29°03'25.85"	80°54'50.42"
JUNC "C"	JUNC BUOY - C (09/23)	683,519	1,717,219	29°03'27.11"	80°54'51.78"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_C3S.DGN
23-181-V-SOUN_V27.DGN
23-181-V-SOUN_V28.DGN
PONCE INLET-C-NGMCCF_2017.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-047_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 5+00 CUT V-27 THRU STA. 3+00 CUT V-28

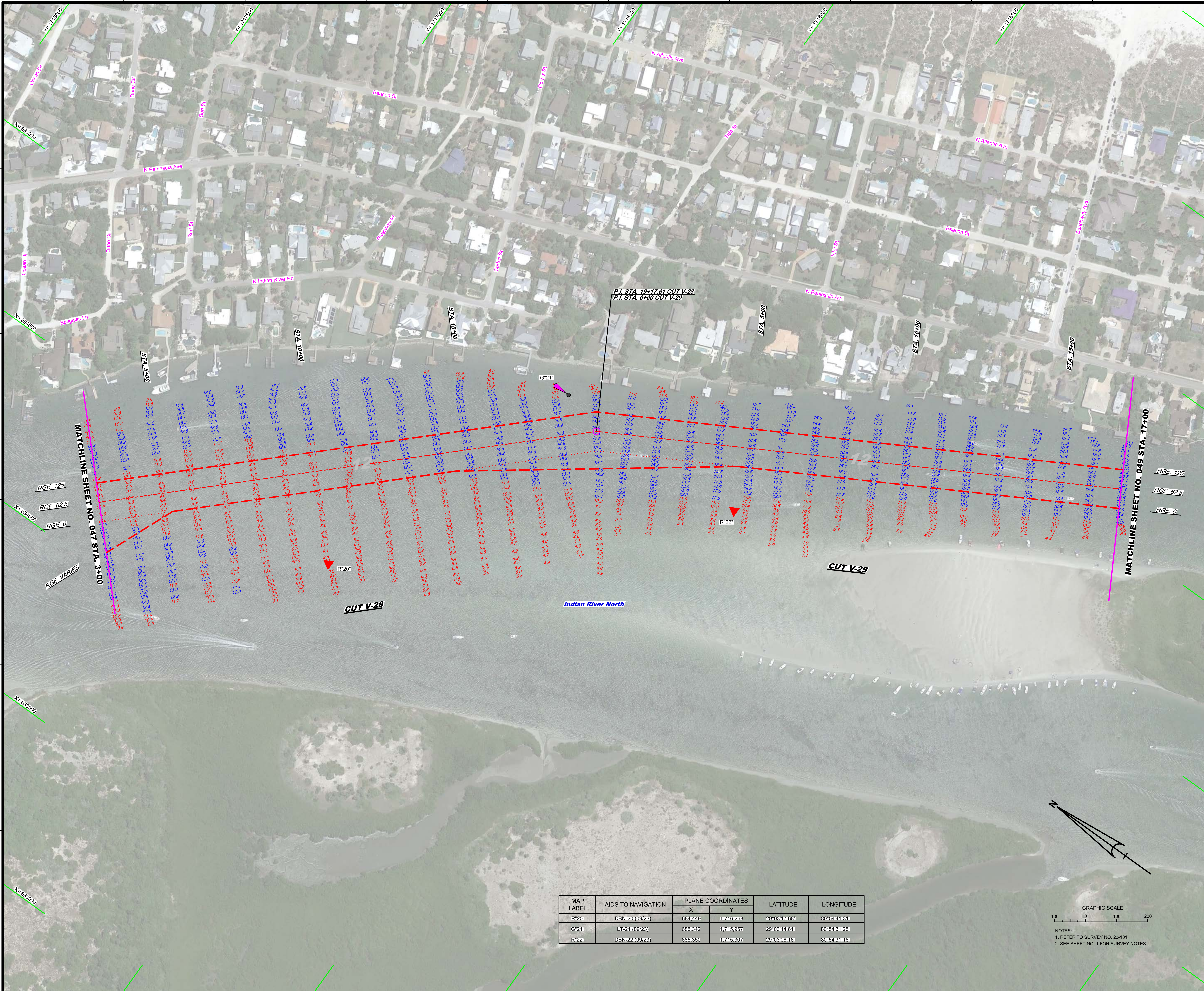
PLAN

Scale: AS SHOWN

Drawing no.

10 / 24

SHEET 47 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"20"	DBN-20 (09/23)	684,449	1,716,268	29°03'17.68"	80°54'41.31"
G"21"	LT-21 (09/23)	685,342	1,715,957	29°03'14.61"	80°54'31.25"
R"22"	DBN-22 (09/23)	685,350	1,715,307	29°03'08.16"	80°54'31.16"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Dated: SEP 2023

XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V28.DGN
23-181-V-SOUN_V29.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN
Reference files:

23-181-VH-048_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 3+00 CUT V-28 THRU STA. 17+00 CUT V-29

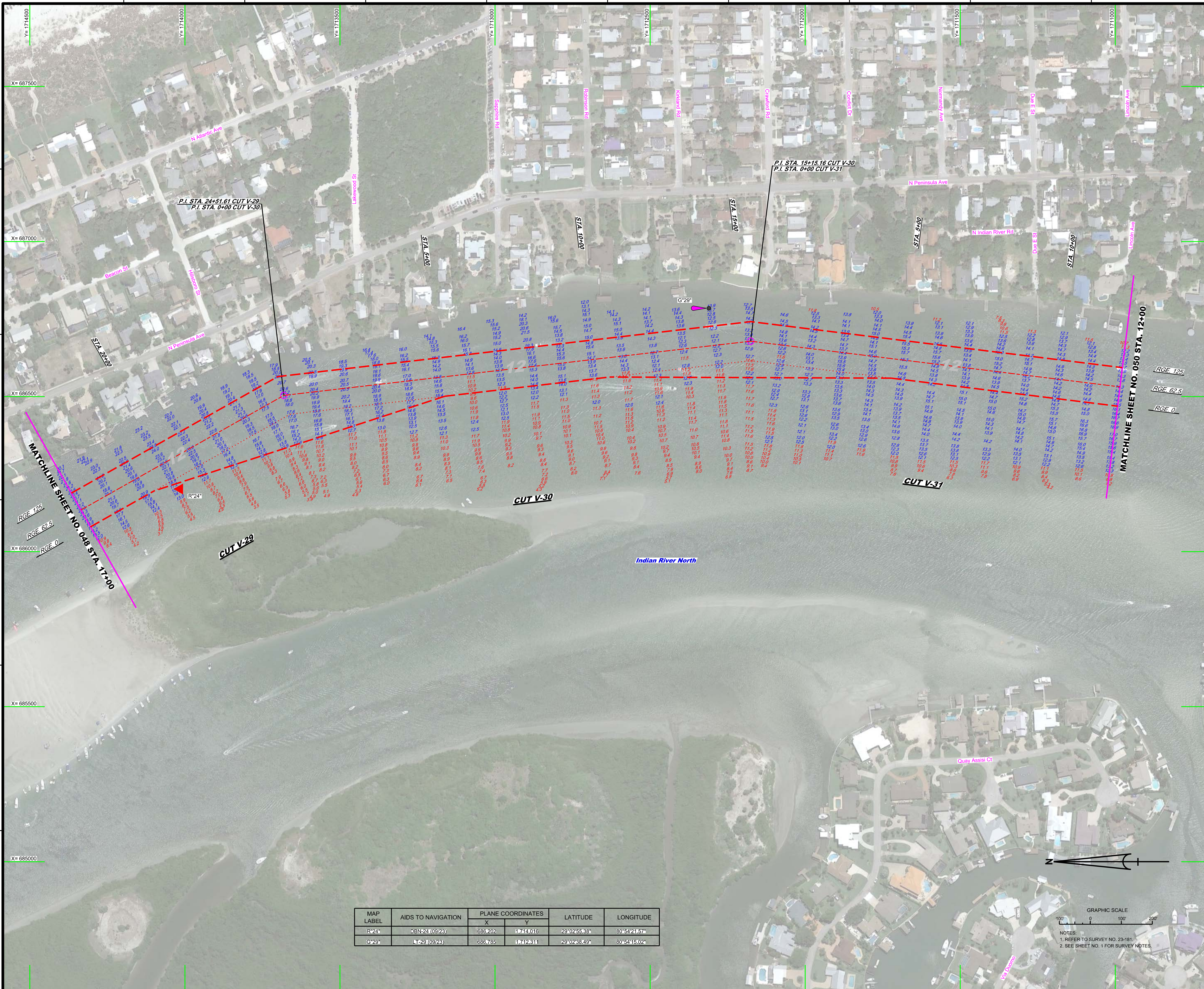
PLAN

Scale: AS SHOWN

Drawing no.

11 / 24

SHEET 48 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"24"	DBN-24 (09/23)	686,202	1,714,016	29°02'55.38"	80°54'21.57"
G"29"	LT-29 (09/23)	686,785	1,712,311	29°02'38.49"	80°54'15.02"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 23-181.
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
Dated: SEP 2023

Reference files:
23-181-V-NAV.DGN
23-181-V-SOUN_V29.DGN
23-181-V-SOUN_V30.DGN
23-181-V-SOUN_V31.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-049_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 17+00 CUT V-29 THRU STA. 12+00 CUT V-31

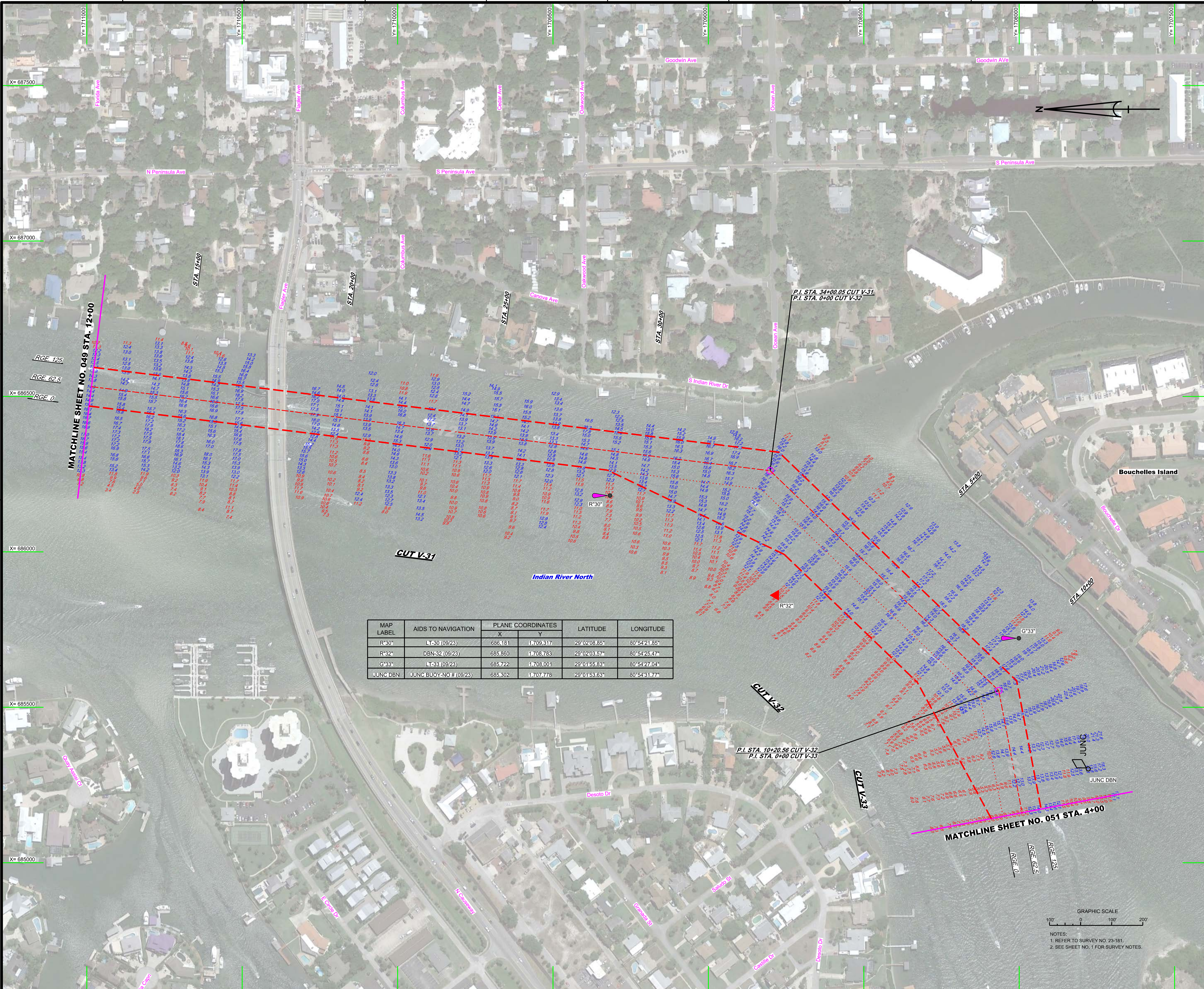
PLAN

Scale: AS SHOWN

Drawing no.

12 / 24

SHEET 49 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"30"	LT-30 (09/23)	686,181	1,709,317	29°02'08.85"	80°54'21.85"
R"32"	DBN-32 (09/23)	685,860	1,708,783	29°02'03.57"	80°54'25.47"
G"33"	LT-33 (09/23)	685,722	1,708,001	29°01'55.83"	80°54'27.04"
JUNC DBN	JUNC BUOY-NO # (09/23)	685,302	1,707,778	29°01'53.63"	80°54'31.77"

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V31.DGN
23-181-V-SOUN_V32.DGN
23-181-V-SOUN_V33.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-050_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 12+00 CUT V-31 THRU STA. 4+00 CUT V-33

PLAN

Scale: AS SHOWN

Drawing no.

13 / 24

SHEET 50 OF 85

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"34"	DBN-34 (09/23)	685,071	1,707,969	29°01'55.52"	80°54'34.38"
G"35"	LT-35 (09/23)	683,886	1,707,626	29°01'52.14"	80°54'47.73"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V33.DGN
23-181-V-SOUN_V-34.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-051_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 4+00 CUT V-33 THRU STA. 9+00 CUT V-34

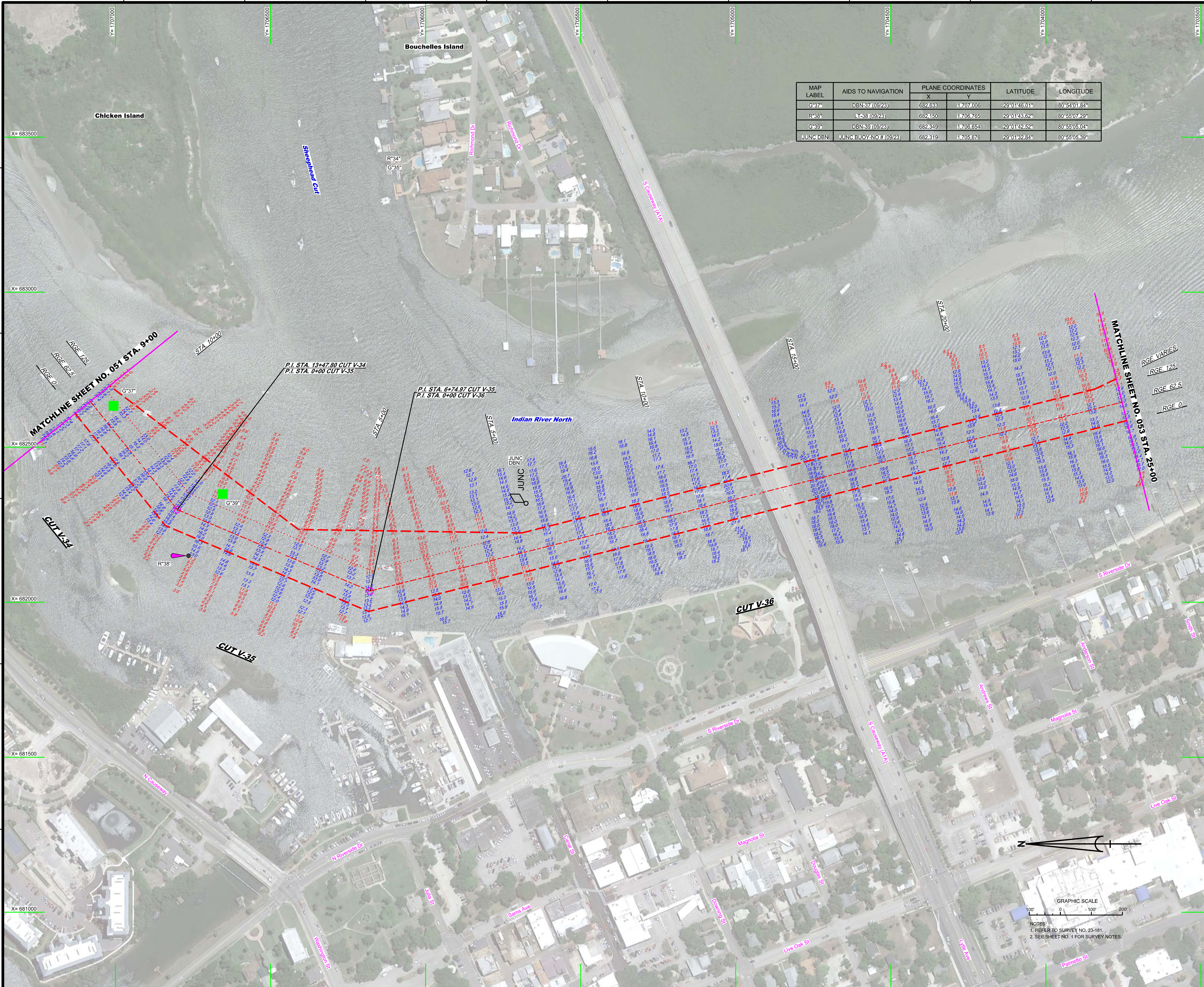
PLAN

Scale: AS SHOWN

Drawing no.

14 / 24

SHEET 51 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"37"	DBN-37 (09/23)	682,633	1,707,006	29°01'46.01"	80°54'01.84"
R"38"	LT-38 (09/23)	682,150	1,706,765	29°01'43.62"	80°55'07.29"
G"39"	DBN-39 (09/23)	682,349	1,706,654	29°01'42.52"	80°55'05.04"
JUNC DBN	JUNC BUOY-NO # (09/23)	682,319	1,705,676	29°01'32.84"	80°55'05.39"

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

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DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
23-181-V-NAV.DGN
23-181-V-SOUN_V34.DGN
23-181-V-SOUN_V35.DGN
23-181-V-SOUN_V36.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181VH-052_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 9+00 CUT V-34 THRU STA. 25+00 CUT V-36

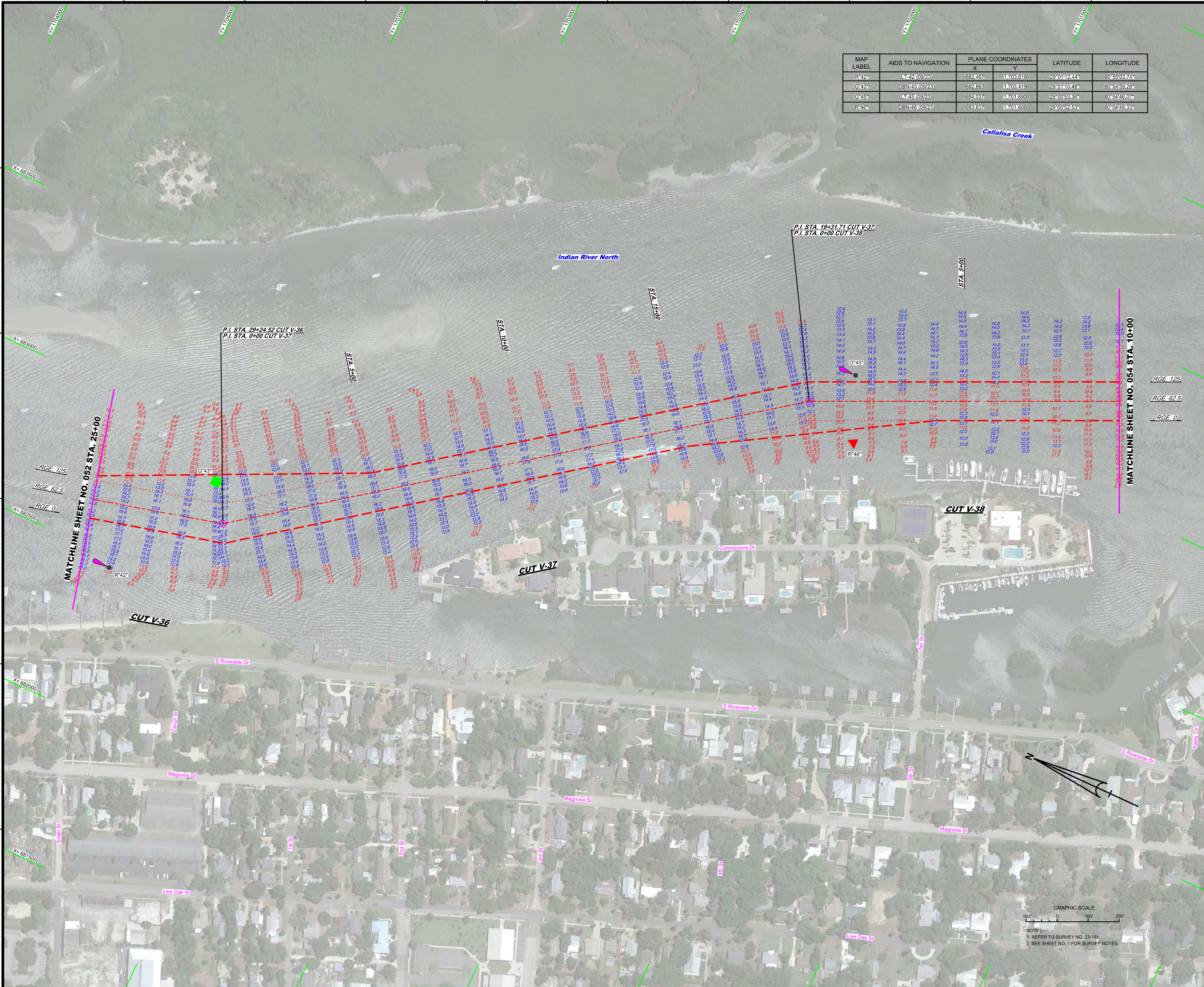
PLAN

Scale: AS SHOWN

Drawing no.

15 / 24

SHEET 51 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"42"	LT-42 (09/23)	682,467	1,703,616	29°01'12.44"	80°55'03.74"
G"43"	DBN-43 (09/23)	682,863	1,703,419	29°01'10.48"	80°54'59.28"
G"45"	LT-45 (09/23)	684,037	1,701,690	29°00'53.36"	80°54'46.07"
R"46"	DBN-46 (09/23)	683,837	1,701,606	29°00'52.53"	80°54'48.33"

NOTES:
1. REFER TO SURVEY NO. 23-181.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Designed by: WRM
DWN by: WRM
Inv. No. W912EP-XX-X-XXX
Dated: SEP 2023

Reference files:
23-181-V-NAV.DGN
23-181-V-SOUN_V36.DGN
23-181-V-SOUN_V37.DGN
23-181-V-SOUN_V38.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-053_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

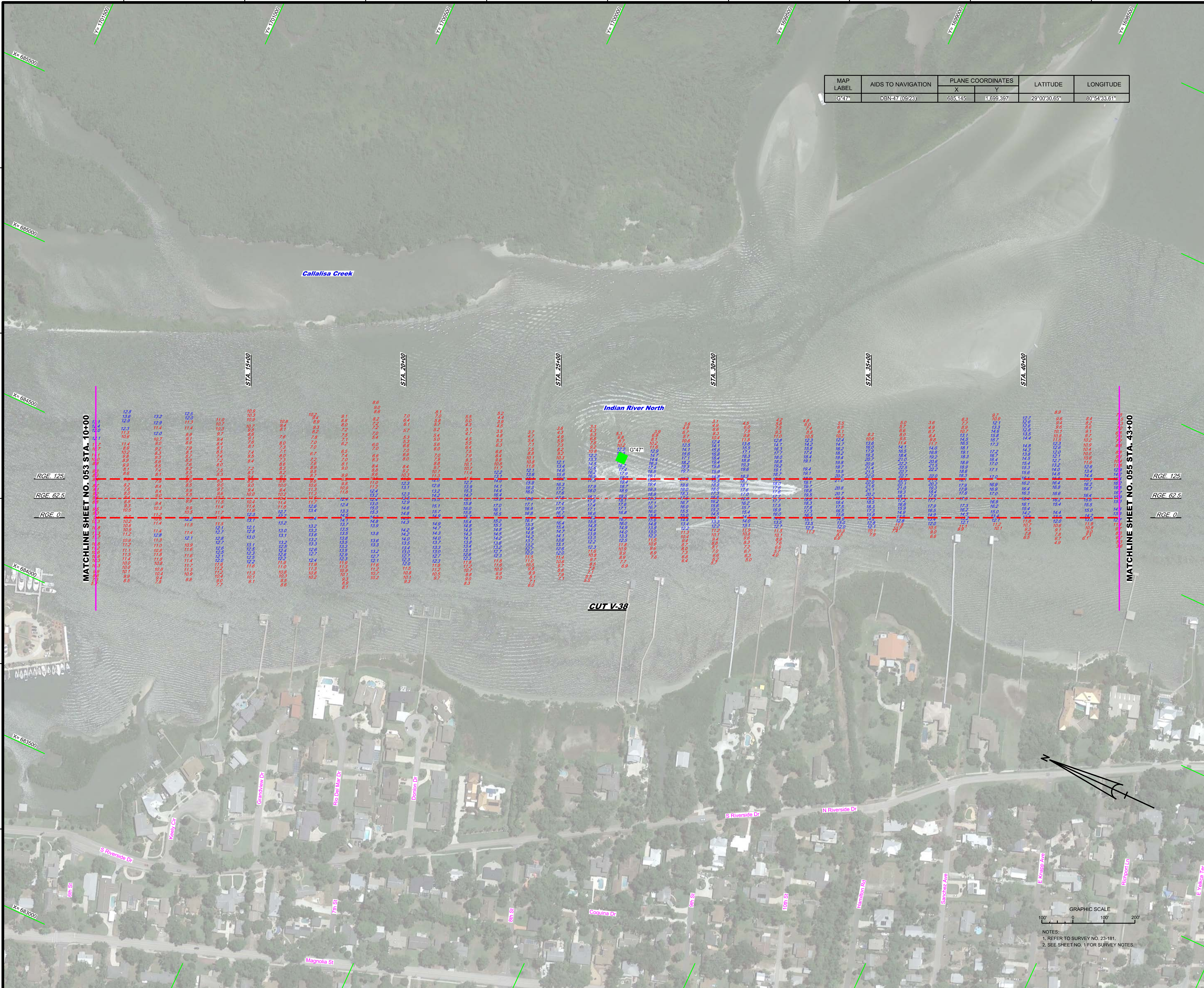
STA. 25+00 CUT V-36 THRU STA. 10+00 CUT V-38

PLAN

Scale: AS SHOWN

Drawing no. 16 / 24

SHEET 53 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"47"	DBN-47 (09/23)	685,145	1,699,397	29°00'30.65"	80°54'33.61"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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

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

Designed by: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V38.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

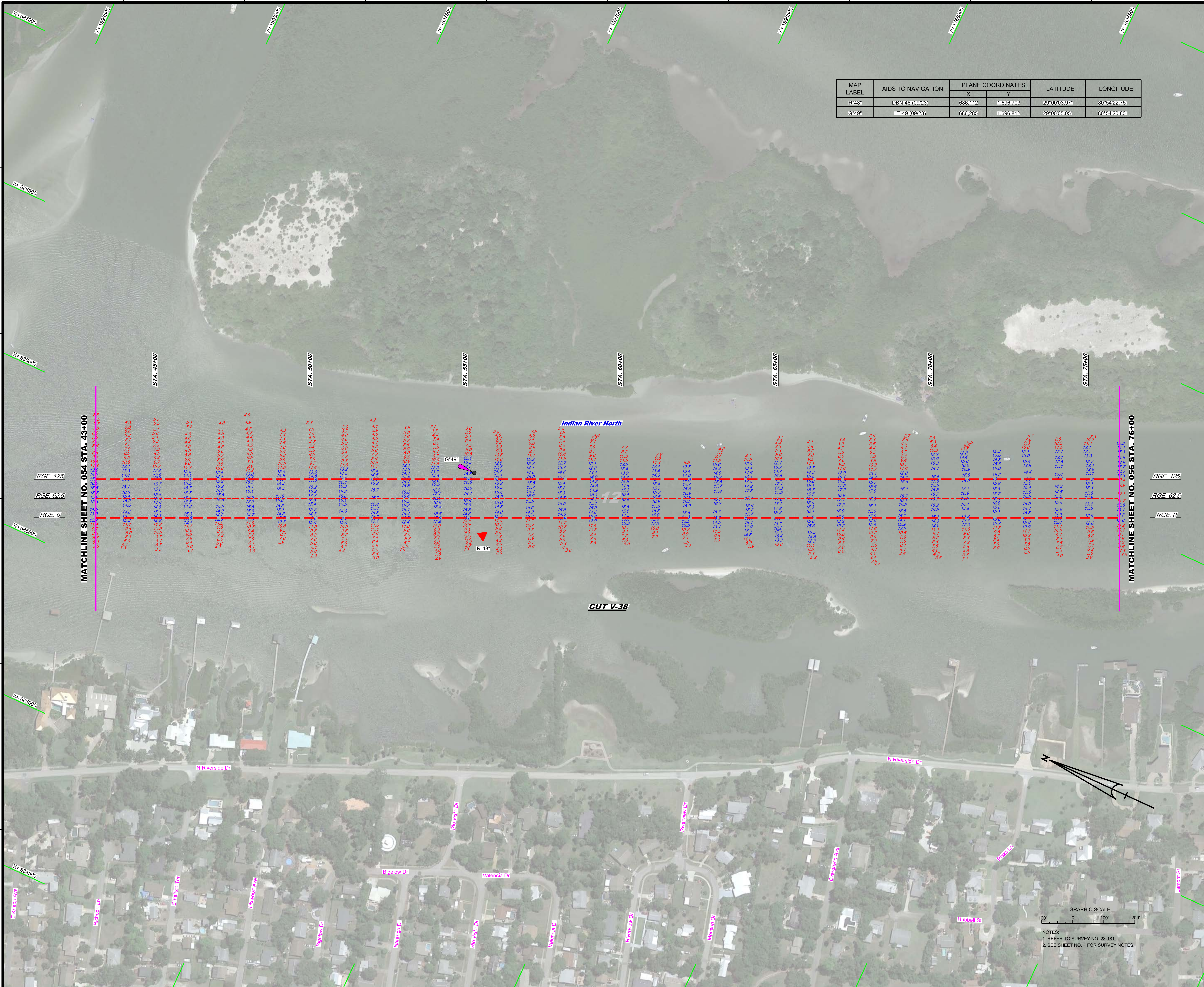
File name: 23-181-VH-054_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY
AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT
STA. 10+00 THRU STA. 43+00 CUT V-38
PLAN

Scale: AS SHOWN

Drawing no.
17 / 24

SHEET 54 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"48"	DBN-48 (09/23)	686,112	1,696,703	29°00'03.97"	80°54'22.75"
G"49"	LT-49 (09/23)	686,285	1,696,812	29°00'05.05"	80°54'20.80"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V38.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-055_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 43+00 THRU STA. 76+00 CUT V-38

PLAN

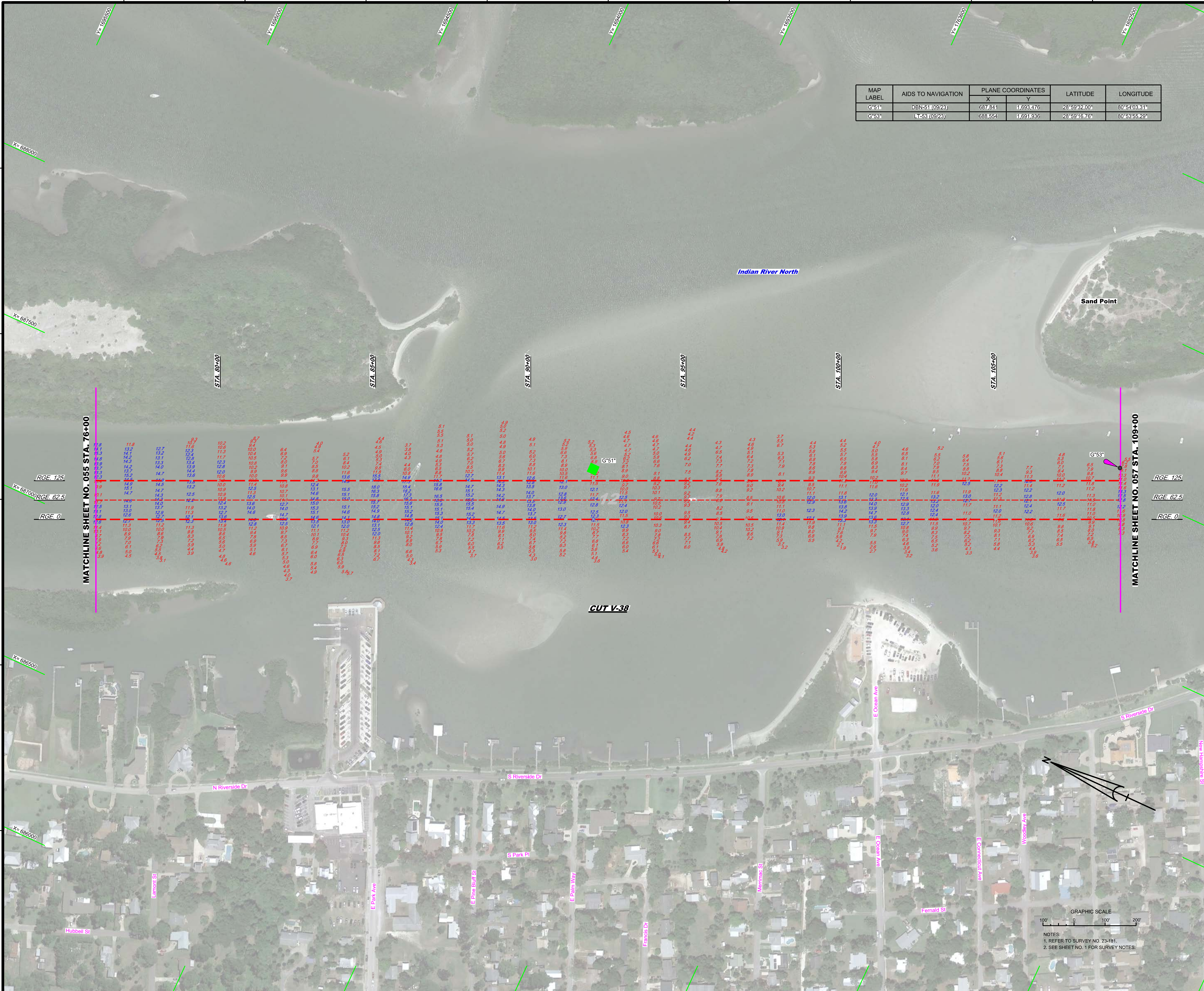
Scale: AS SHOWN

Drawing no.

18 / 24

US Army Corps
of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"51"	DBN-51 (09/23)	687,841	1,693,476	28°59'32.00"	80°54'03.31"
G"53"	LT-53 (09/23)	688,554	1,691,936	28°59'16.76"	80°53'55.29"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 23-181.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

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Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V38.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-056_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 76+00 THRU STA. 109+00 CUT V-38

PLAN

Scale: AS SHOWN

Drawing no.

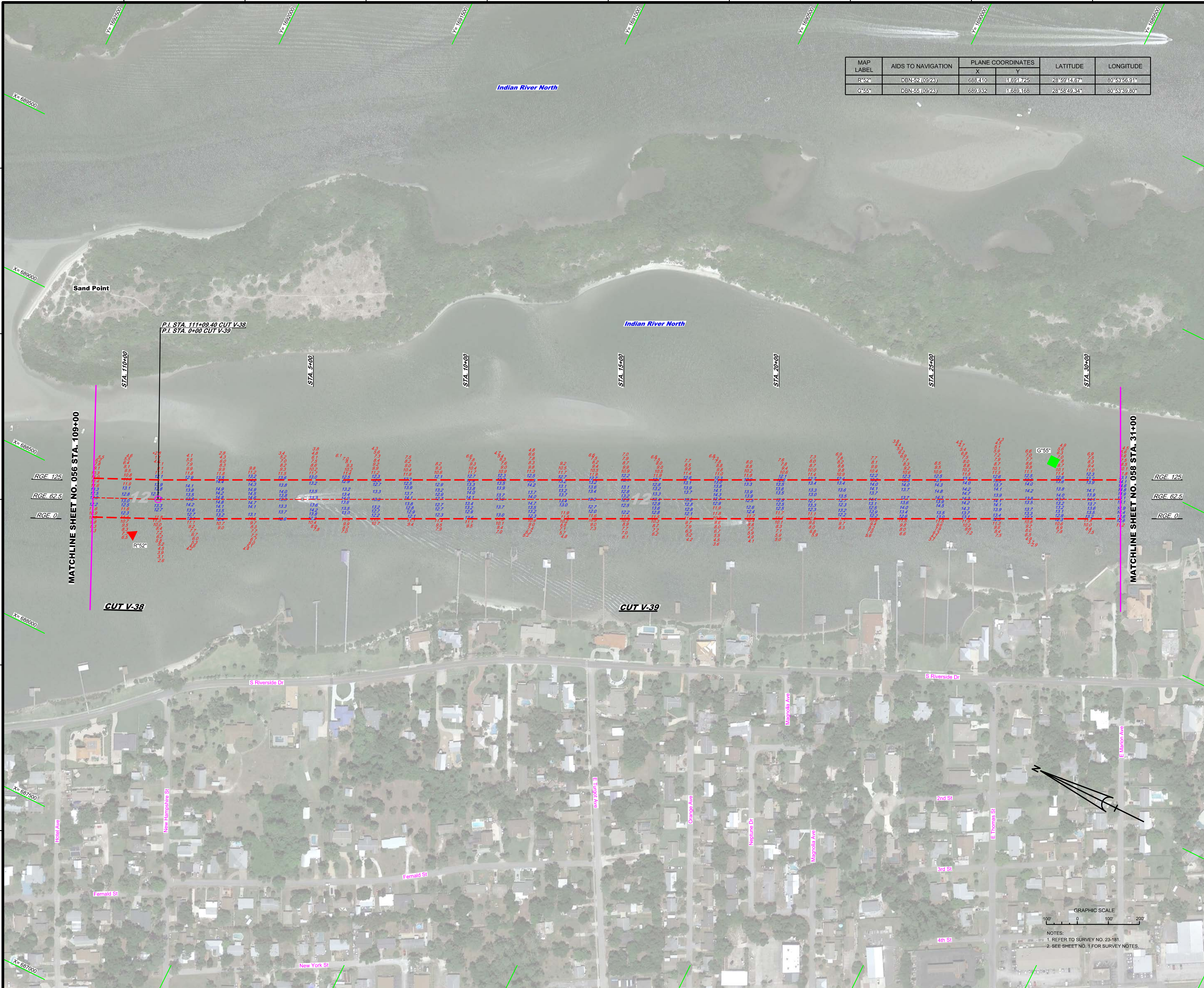
19 / 24

SHEET 56 OF 85

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"52"	DBN-52 (09/23)	688,410	1,691,725	28°59'14.67"	80°53'56.91"
G"55"	DBN-55 (09/23)	689,932	1,689,168	28°58'49.34"	80°53'39.80"



NOTES:
1. REFER TO SURVEY NO. 23-181.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Designed by: WRM
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Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V38.DGN
23-181-V-SOUN_V39.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-057_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 109+00 CUT V-38 THRU STA. 31+00 CUT V-39

PLAN

Scale: AS SHOWN

Drawing no. **20 / 24**

SHEET 57 OF 85

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"56"	DBN-56 (09/23)	691,249	1,686,045	28°58'18.41"	80°53'25.00"
G"57"	LT-57 (09/23)	691,475	1,686,016	28°58'18.12"	80°53'22.46"

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

Designed by: WRM
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V39.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-058_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

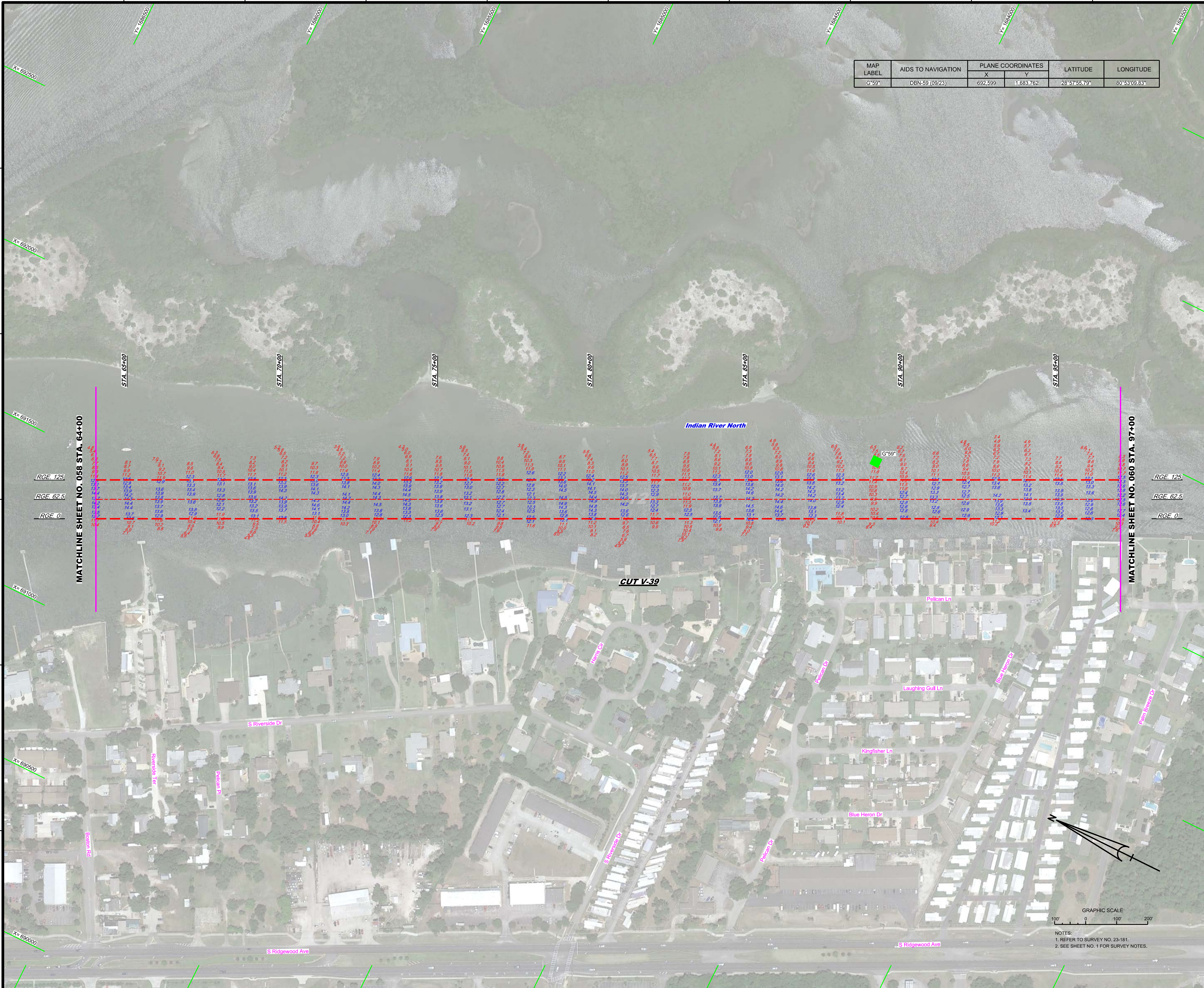
STA. 31+00 THRU STA. 64+00 CUT V-39

PLAN

Scale: AS SHOWN

Drawing no.
21 / 24

SHEET 58 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"59"	DBN-59 (09/23)	692,599	1,683,762	28°57'55.79"	80°53'09.83"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
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Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V39.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-059_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

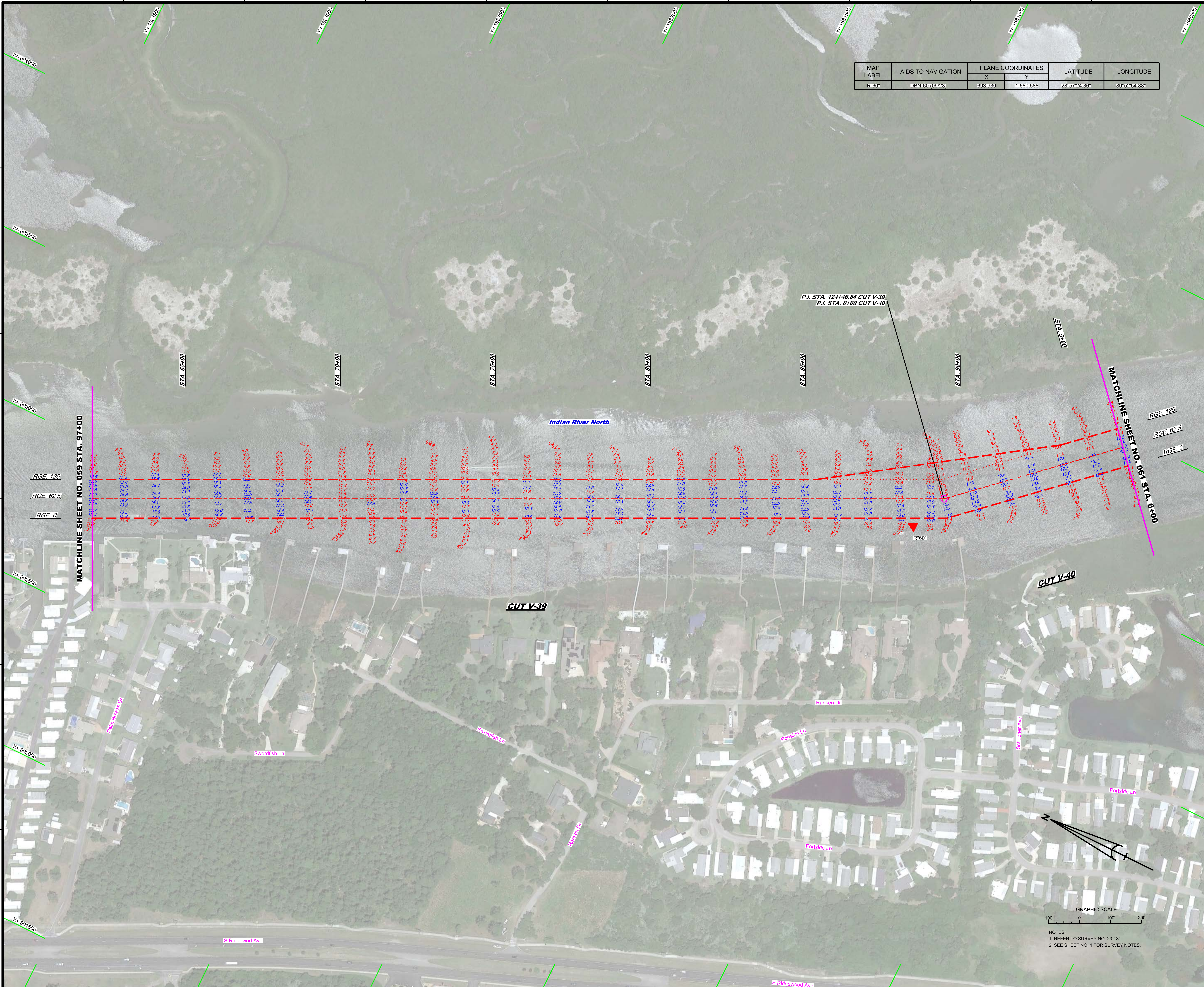
STA. 64+00 THRU STA. 97+00 CUT V-39

PLAN

Scale: AS SHOWN

Drawing no.
22 / 24

SHEET 59 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"60"	DBN-60 (09/23)	693,930	1,680,588	28°57'24.36"	80°52'54.88"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
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Inv. No. W912EP-XX-X-XXXX
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Reference files:
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23-181-V-NAV.DGN
23-181-V-SOUN_V39.DGN
23-181-V-SOUN_V40.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-060_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

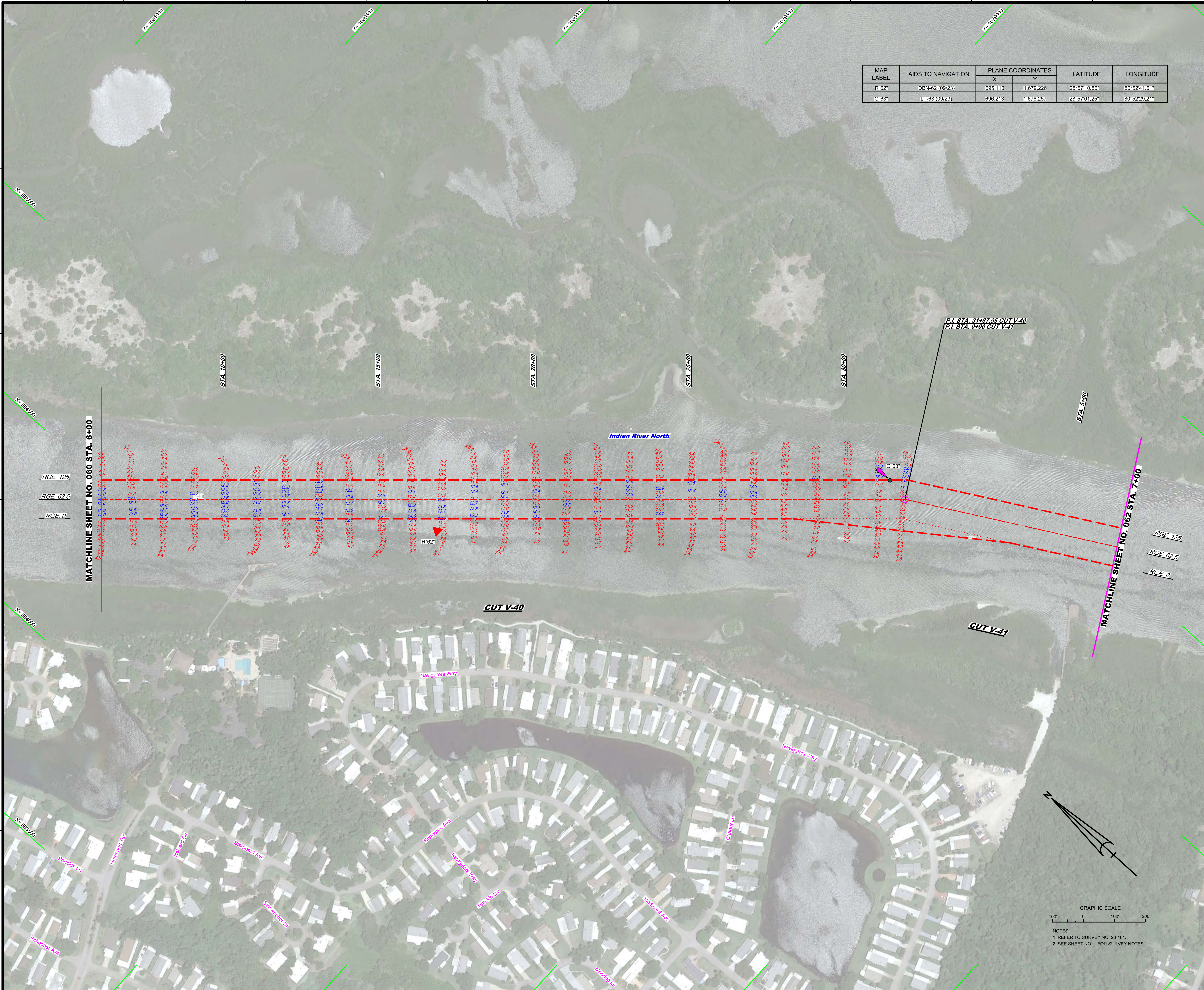
STA. 97+00 CUT V-39 THRU STA. 6+00 CUT V-40

PLAN

Scale: AS SHOWN

Drawing no.
23 / 24

SHEET 60 OF 85



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"62"	DBN-62 (09/23)	695,110	1,679,226	28°57'10.86"	80°52'41.61"
G"63"	LT-63 (09/23)	696,213	1,678,257	28°57'01.25"	80°52'29.21"

NOTES:
1. REFER TO SURVEY NO. 23-181.
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
Ckd by: GMR
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Dated: SEP 2023

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-181-V-NAV.DGN
23-181-V-SOUN_V40.DGN
IWW-C-NGMCCF.DGN
23-181-G-BS-BRDR_VO.DGN

File name: 23-181-VH-061_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

AFTER-DREDGE / EXAM SURVEY FY23
12-FOOT PROJECT

STA. 6+00 CUT V-40 THRU STA. 7+00 CUT V-41

PLAN

Scale: AS SHOWN

Drawing no.
24 / 24

SHEET 61 OF 85