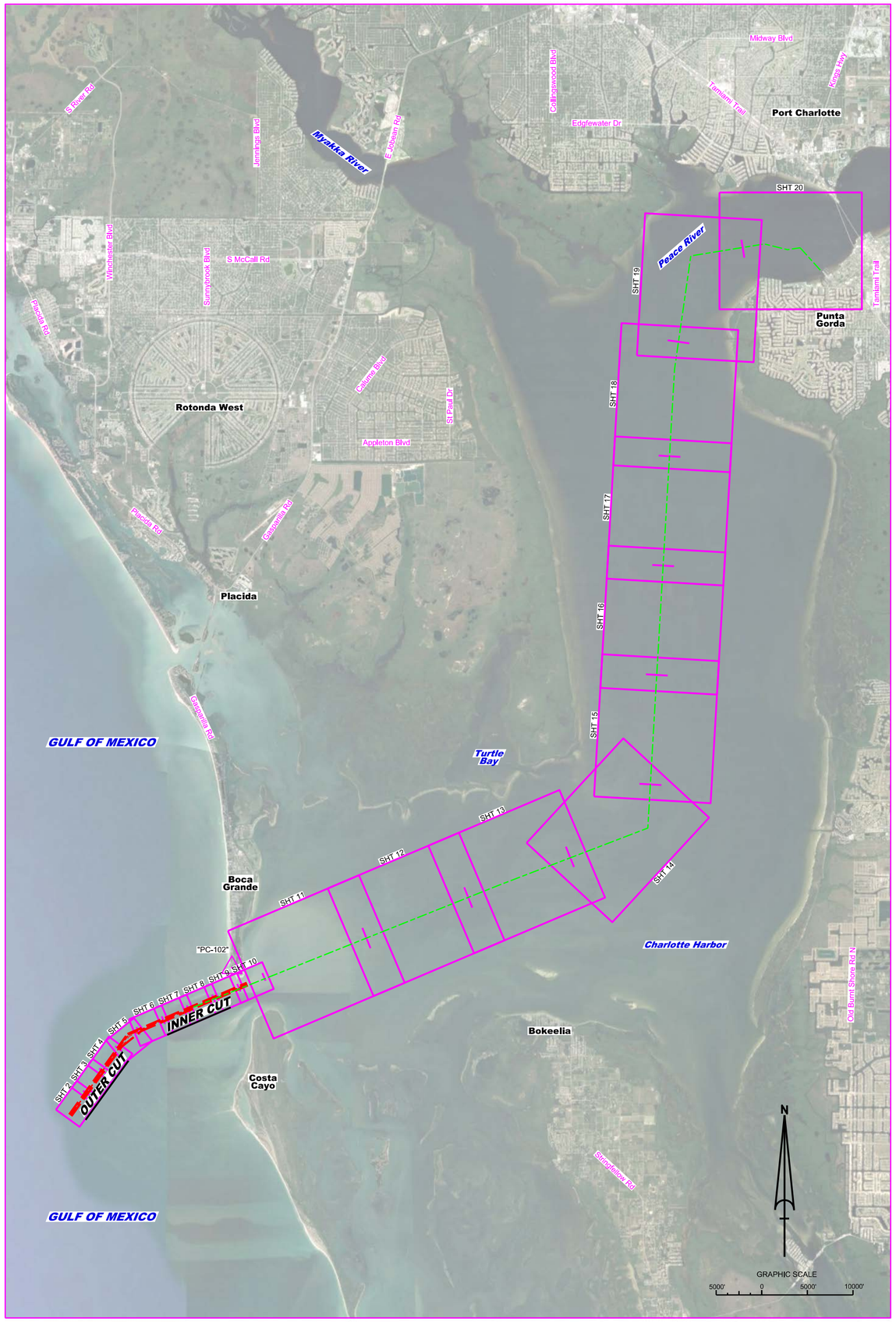


LOCATION MAP

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA
PROJECT CONDITION SURVEY FY23
32-FOOT PROJECT

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. 23-066.
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: "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 FOR POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "PC-102" (PID: BBCF70)
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). A MODIFIED VERSION OF NOAA'S VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHT OF THE BENCH MARK BELOW:

   NOAA TIDAL STATION 872 5577 E (PID: DL7346)
9. VERTICAL MEASUREMENTS WERE MADE USING AN ECHOTRAC E20 DUAL-FREQUENCY SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ AND AN EDGETECH 6205 COMBINED MULTI-BEAM / SIDESCAN . ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	AREA
SB-44	09-10 JAN 2023	INNER AND OUTER CUTS

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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.

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
Chkd by: GR
Rev. No.
Date: JAN 2023

23-066-VI-INDX2.DGN
CHARLOTTE-HARBOR-C-SPMCCF.DGN
23-066-C-BS-BRDR.DGN
Reference files
23-066-VH-001.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY FY23
32-FOOT PROJECT

INDEX, LOCATION AND VICINITY

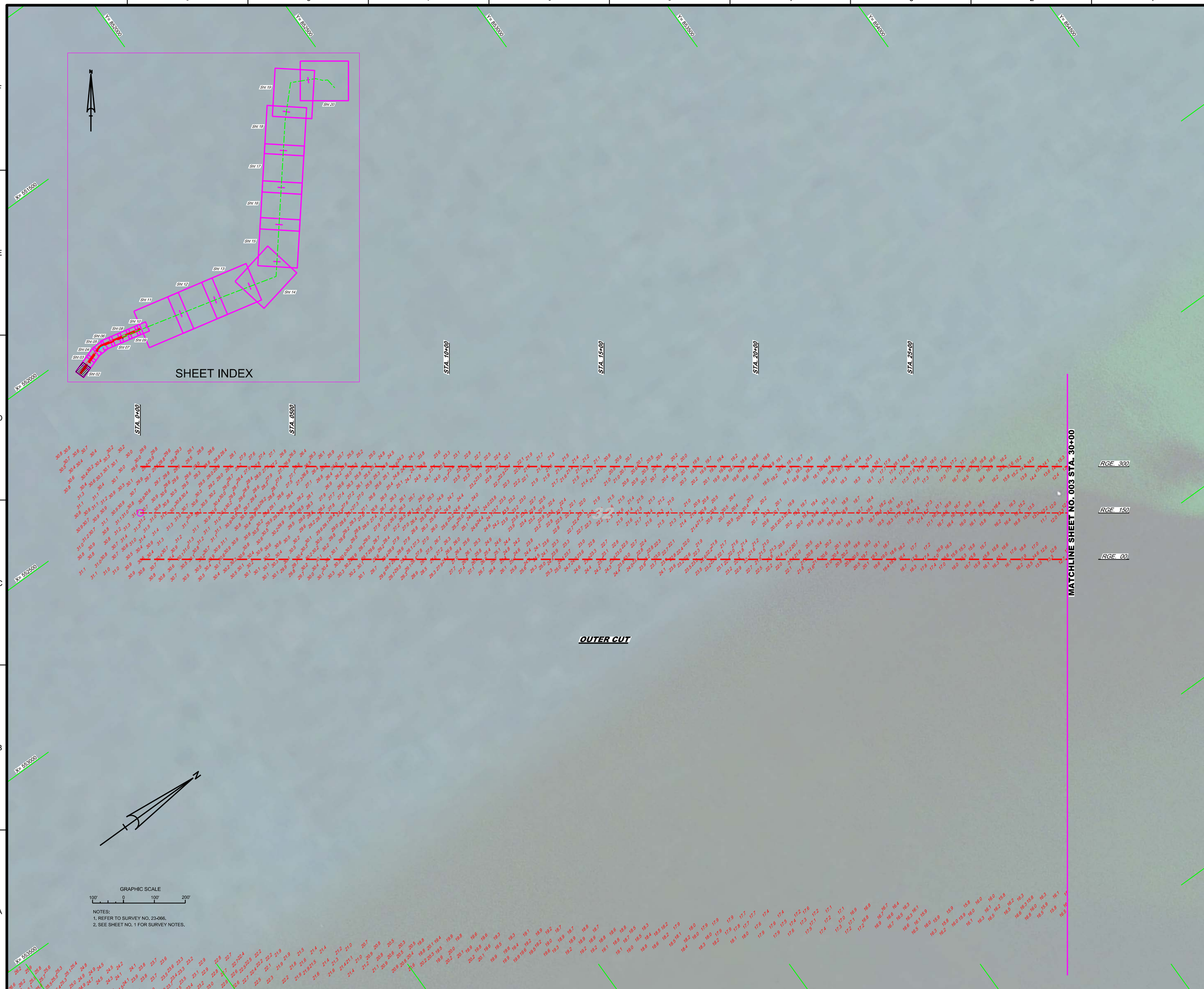
MAP

Scale: AS SHOWN

Drawing no.

1 / 10

SHEET 01 OF 20



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
Chkd by: GR
Rev. No.
Date: JAN 2023

XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
23-066-LASCUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
23-066-C-FS-SHDR.DGN
Reference files:

23-066-VH-002.DGN
File name:

CHARLOTTE HARBOR- BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 0+00 THRU STA. 30+00 OUTER CUT

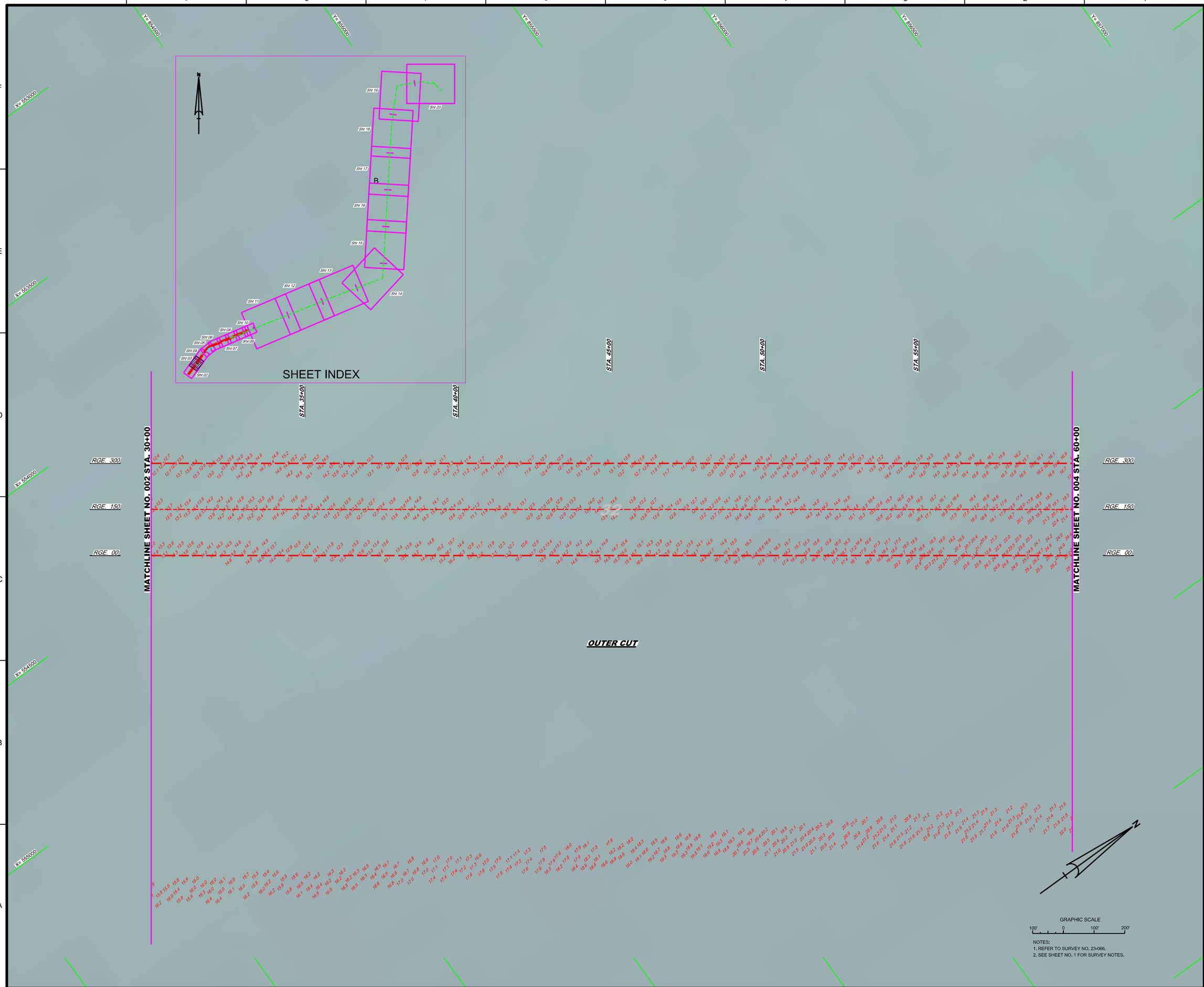
PLAN

Scale: AS SHOWN

Drawing no.

2 / 10

SHEET 02 OF 20



NOTES:
1. REFER TO SURVEY NO. 23-066.
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
Chkd by: GR
Rev. No.
Date: JAN 2023

XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
23-066-V-SQUIN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
23-066-C-FS-SHDR.DGN
Reference files:

23-066-VH-003.DGN
File name:

CHARLOTTE HARBOR- BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 30+00 THRU STA. 60+00 OUTER CUT

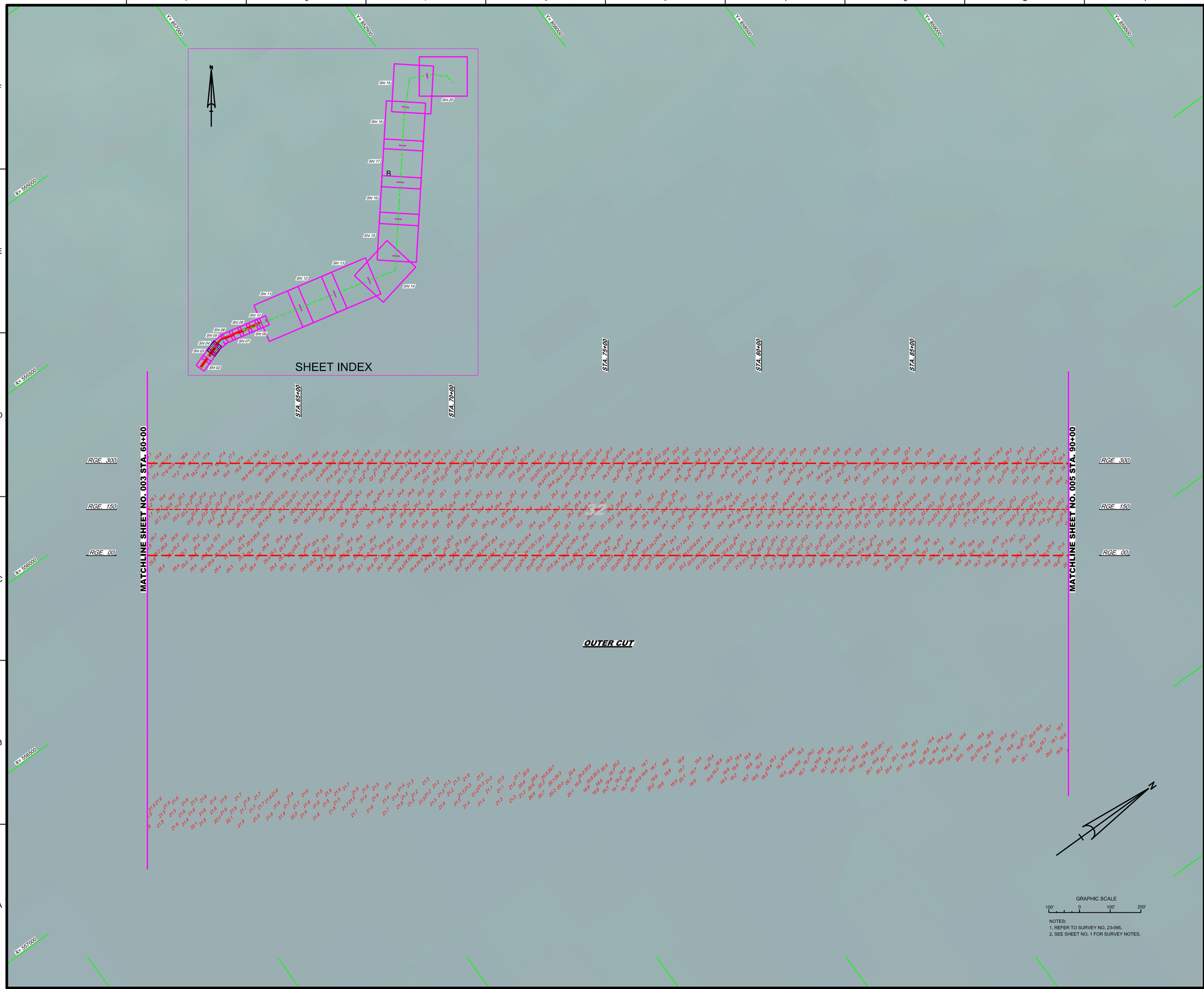
PLAN

Scale: AS SHOWN

Drawing no.

3 / 10

SHEET 03 OF 20



NOTES:
1. REFER TO SURVEY NO. 23-066.
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: GR
Rev. No.
Date: JAN 2023

X:\XXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-066-V-SOUN_ALL-CUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
23-066-C-ES-SHDR.DGN
Reference files:

23-066-V-H-004.DGN
File name:

CHARLOTTE HARBOR- BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 60+00 THRU STA. 90+00 OUTER CUT

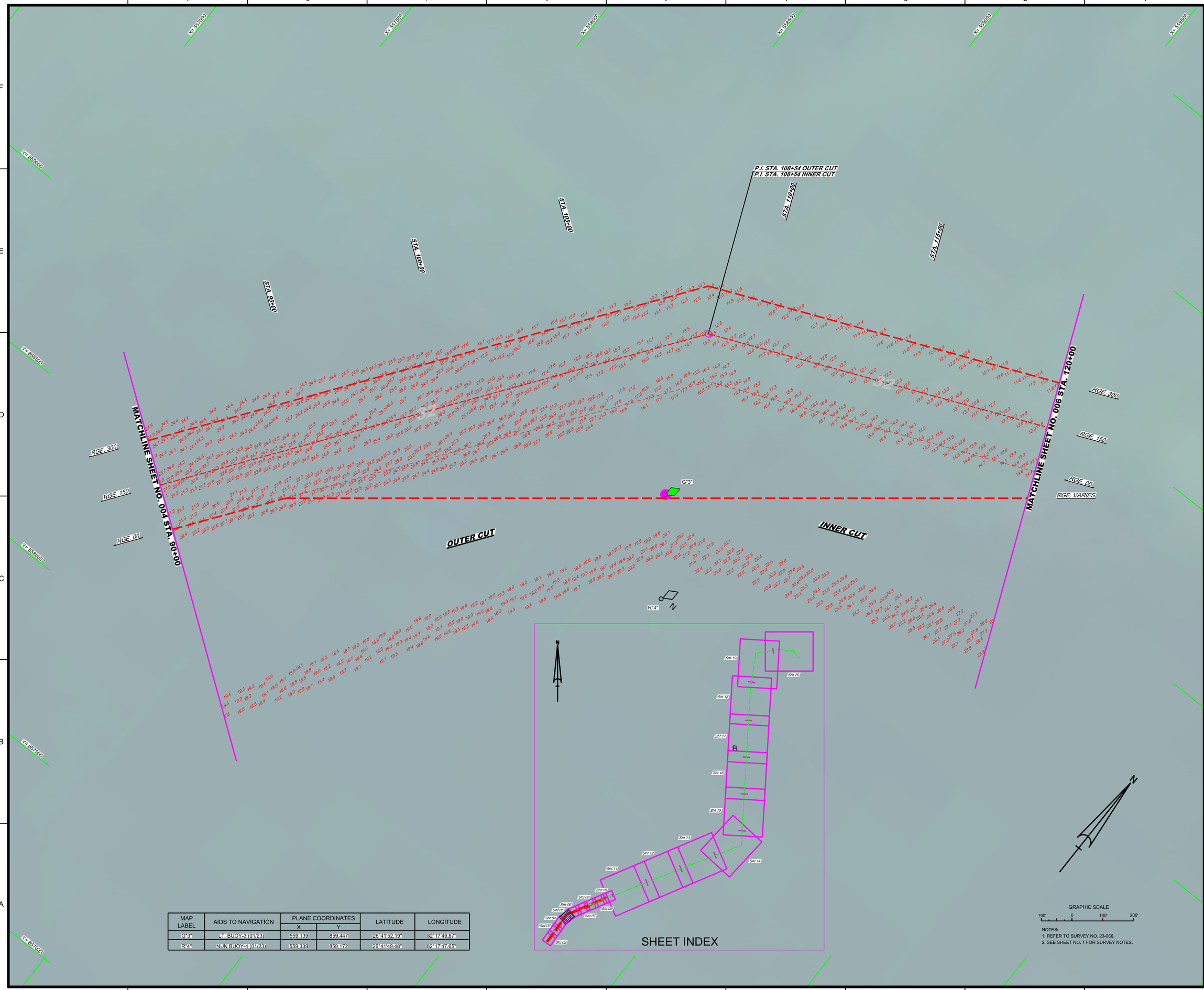
PLAN

Scale: AS SHOWN

Drawing no.

4 / 10

SHEET 04 OF 20



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (01/23)	559,139	859,447	26°41'52.19"	82°17'49.87"
R"4"	NUN BUOY-4 (01/23)	559,339	859,172	26°41'49.48"	82°17'47.65"

NOTES:
1. REFER TO SURVEY NO. 23-066.
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
Chkd by: GB
Proj. No.
Date: JAN 2023

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
23-066-A-SDUN_ALL CUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
23-066-C-BS-BRDR.DGN
Reference files
23-066-VR-05.DGN
File name:

CHARLOTTE HARBOR- BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 90+00 OUTER CUT THRU STA. 120+00 INNER CUT

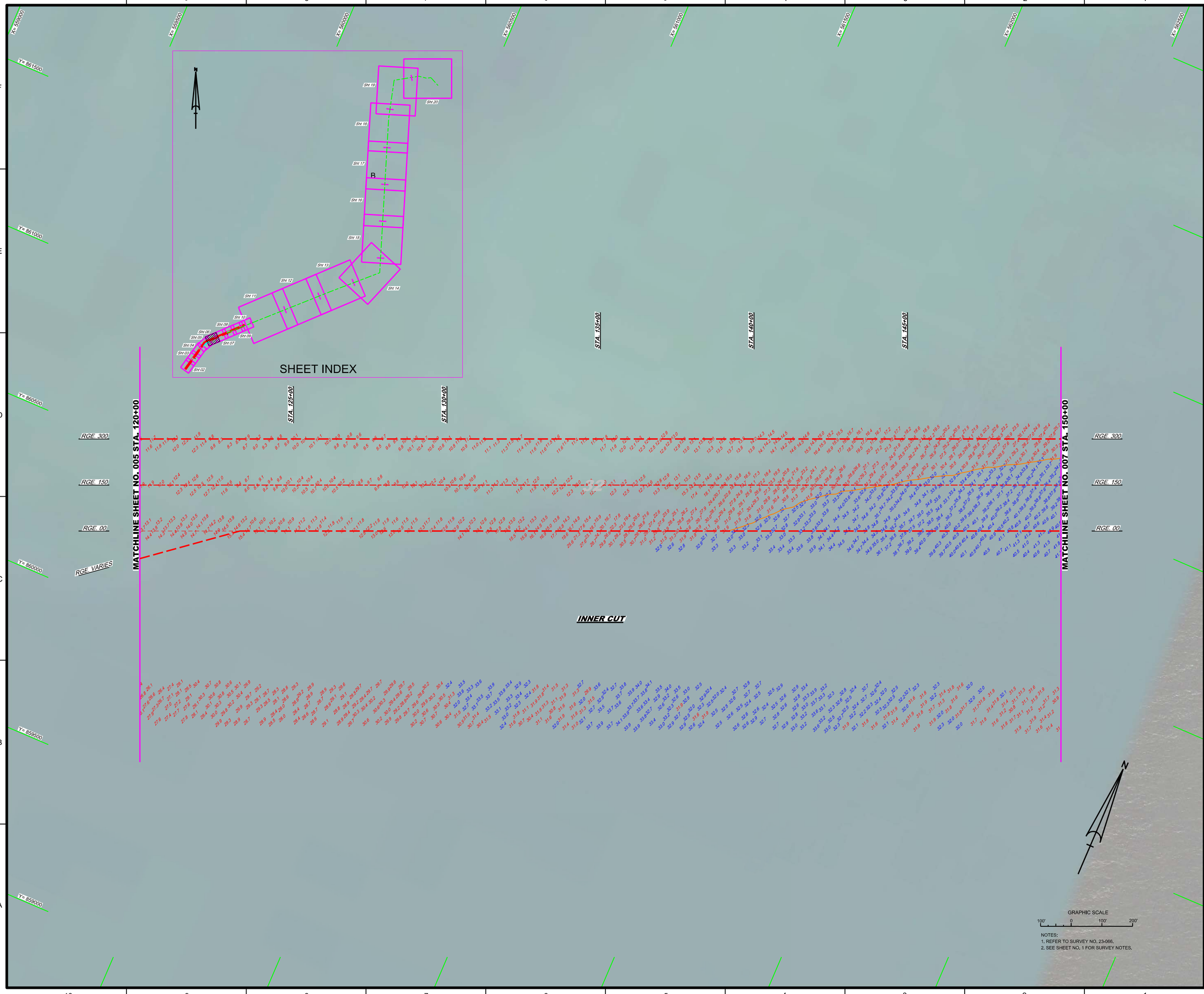
PLAN

Scale: AS SHOWN

Drawing no.

5 / 10

SHEET 05 OF 20



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: GR
Rev. No.
Date: JAN 2023

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
23-066-A-SOUNDING.DGN
23-066-A-SOUN_ALCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
23-066-C-ESI-BRDR.DGN
Reference files:
23-066-VH-036.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 120+00 THRU STA. 150+00 INNER CUT

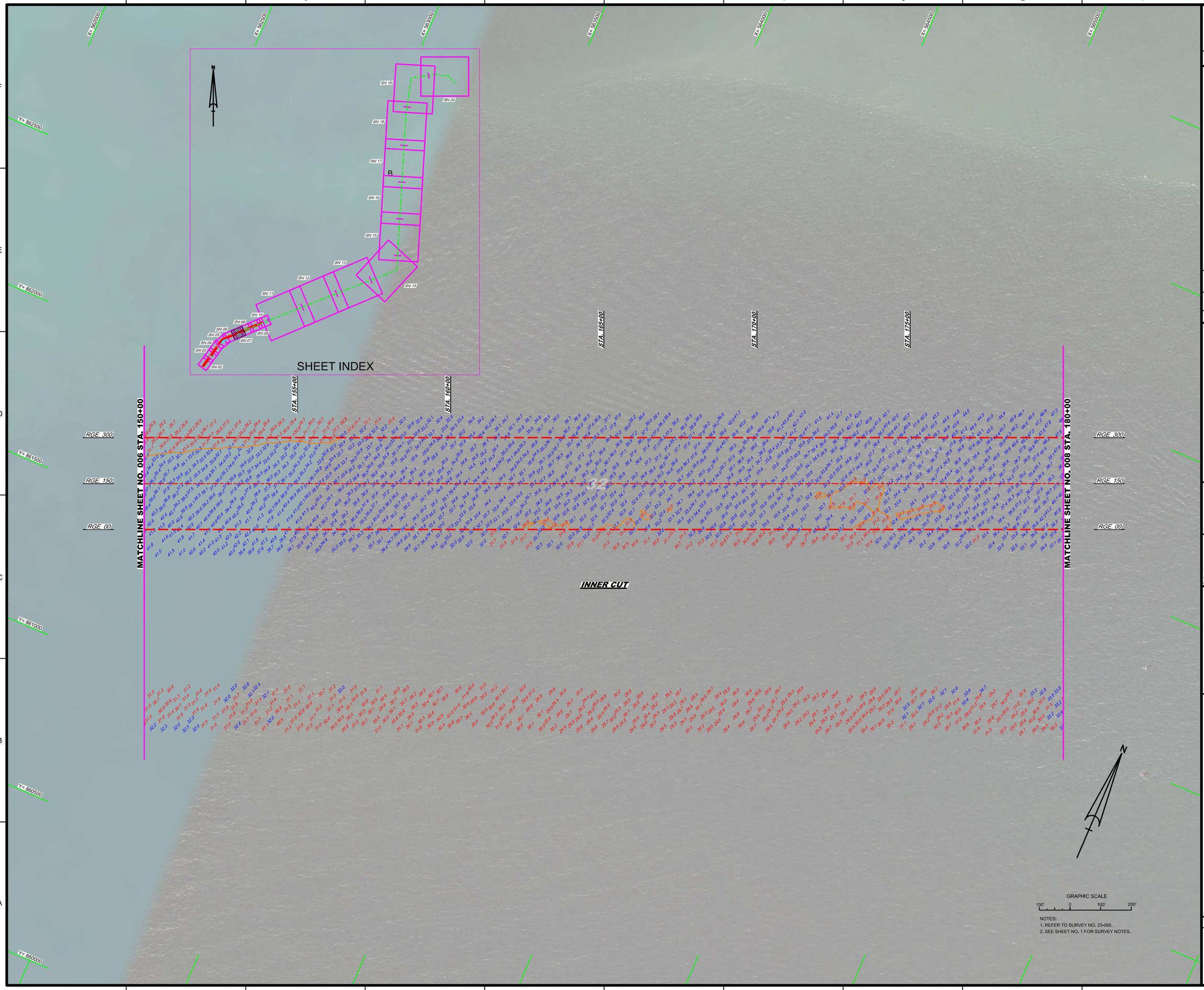
PLAN

Scale: AS SHOWN

Drawing no.

6 / 10

SHEET 06 OF 20



NOTES:
1. REFER TO SURVEY NO. 23-066.
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
Ckd by: GR
Rev. No.
Date: JAN 2023

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
23-066-VH-001.DGN
23-066-SURV-CONTROL.DGN
23-066-SOUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPNCCF.DGN
23-066-CABS-BRDR.DGN
Reference files:
23-066-VH-007.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 150+00 THRU STA. 180+00 INNER CUT

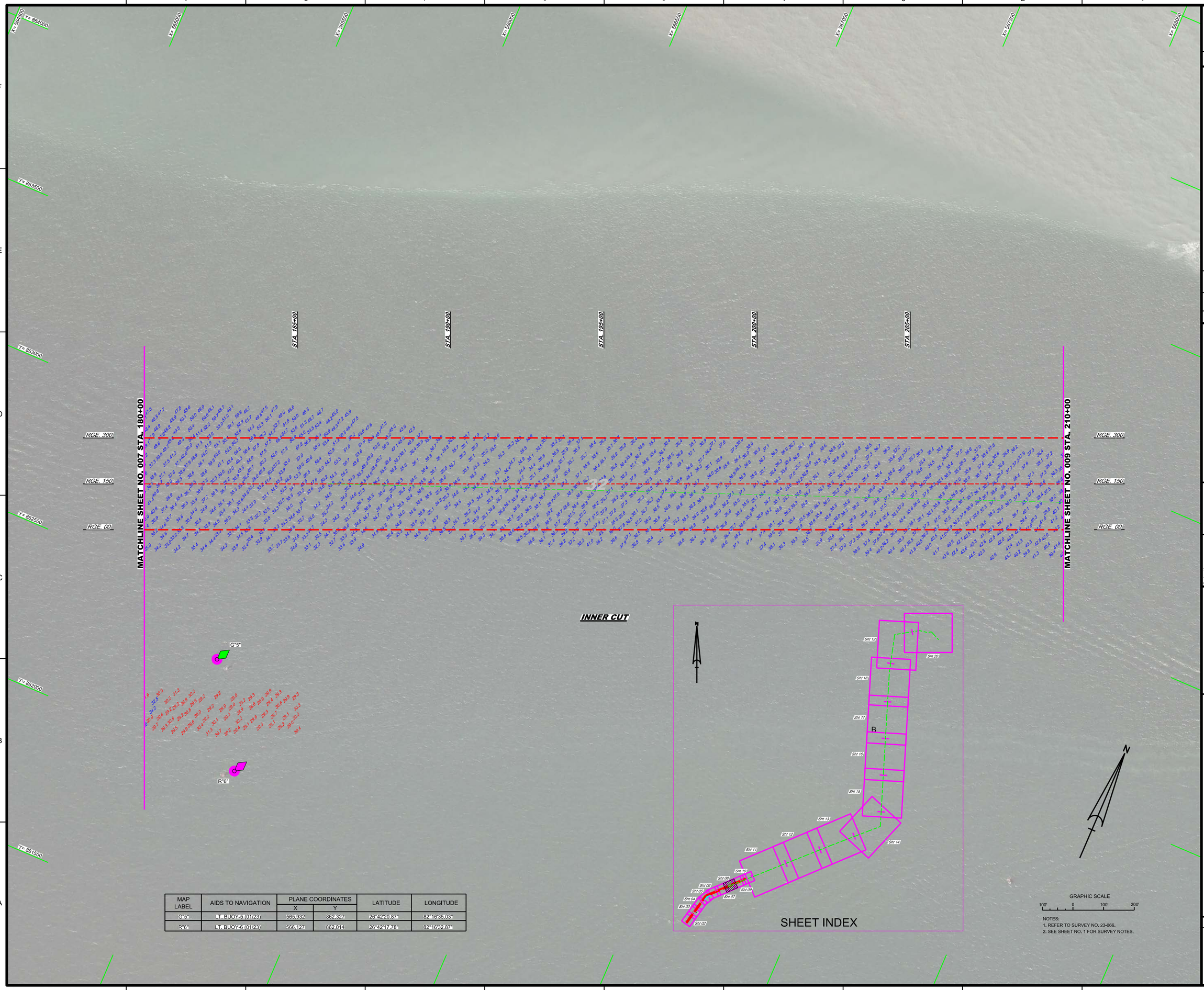
PLAN

Scale: AS SHOWN

Drawing no.

7 / 10

SHEET 07 OF 20



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (01/23)	565,932	862,327	26°42'20.87"	82°16'35.03"
R"6"	LT. BUOY-6 (01/23)	566,127	862,014	26°42'17.78"	82°16'32.87"

NOTES:
1. REFER TO SURVEY NO. 23-066.
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: GR
Rev. No.
Date: JAN 2023

XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
23-066-A-SOUR_ALCUTS.DGN
CHARLOTTE HARBOR-C-SPNCCF.DGN
23-066-CABS-BRDR.DGN
Reference files:
23-066-VH-008.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 180+00 THRU STA. 210+00 INNER CUT

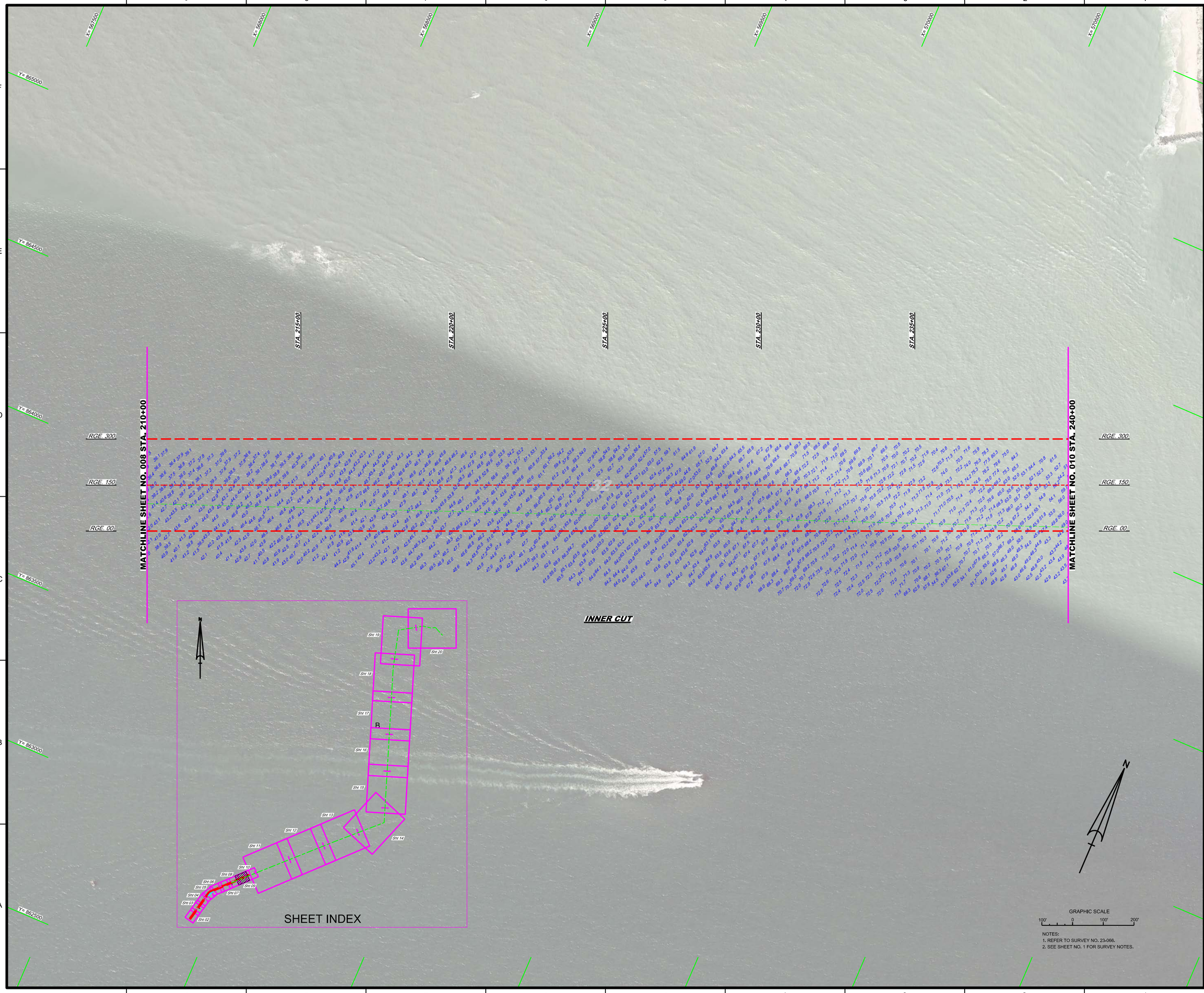
PLAN

Scale: AS SHOWN

Drawing no.

8 / 10

SHEET 08 OF 20



NOTES:
1. REFER TO SURVEY NO. 23-066.
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: GR
Rev. No.
Date: JAN 2023

XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
23-066-IASQUIN_ALCOTS.DGN
CHARLOTTE HARBOR-C-SPMCDF.DGN
23-066-C-ES-BRDR.DGN
Reference files:
23-066-VH-010.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

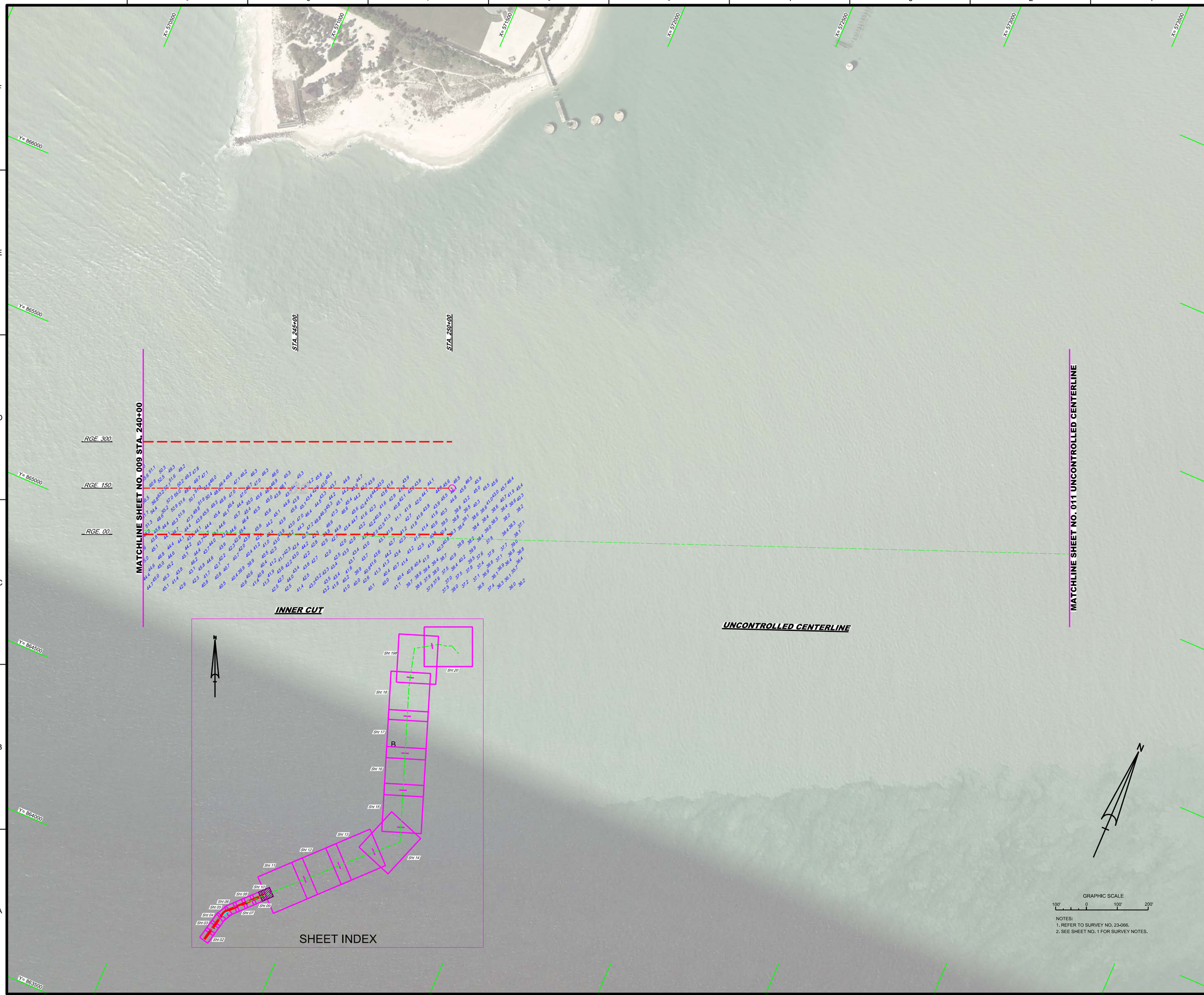
PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT
STA. 210+00 THRU STA. 240+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.
9 / 10

SHEET 09 OF 20



NOTES:
1. REFER TO SURVEY NO. 23-066.
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: WBM
Dwn by: WBM
Ckd by: GR
Inv. No.
Dateed: JAN 2023

XXXXXXXX-XX-XXXXXX.DGN
XXXXXXXX-XX-XXXXXX.DGN
XXXXXXXX-XX-XXXXXX.DGN
XXXXXXXX-XX-XXXXXX.DGN
23-066A-ASQA_ALLUCTS.DGN
CHARLOTTE HARBOR-C-SPMICF.DGN
23-066-C-BS-BROR.DGN
Reference files:
23-066-VH-010.DGN
File name:

CHARLOTTE HARBOR - BOCA GRANDE PASS
CHARLOTTE AND LEE COUNTIES, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY23
32-FOOT PROJECT

STA. 240+00 THRU STA. 250+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

10 / 10

SHEET 10 OF 20