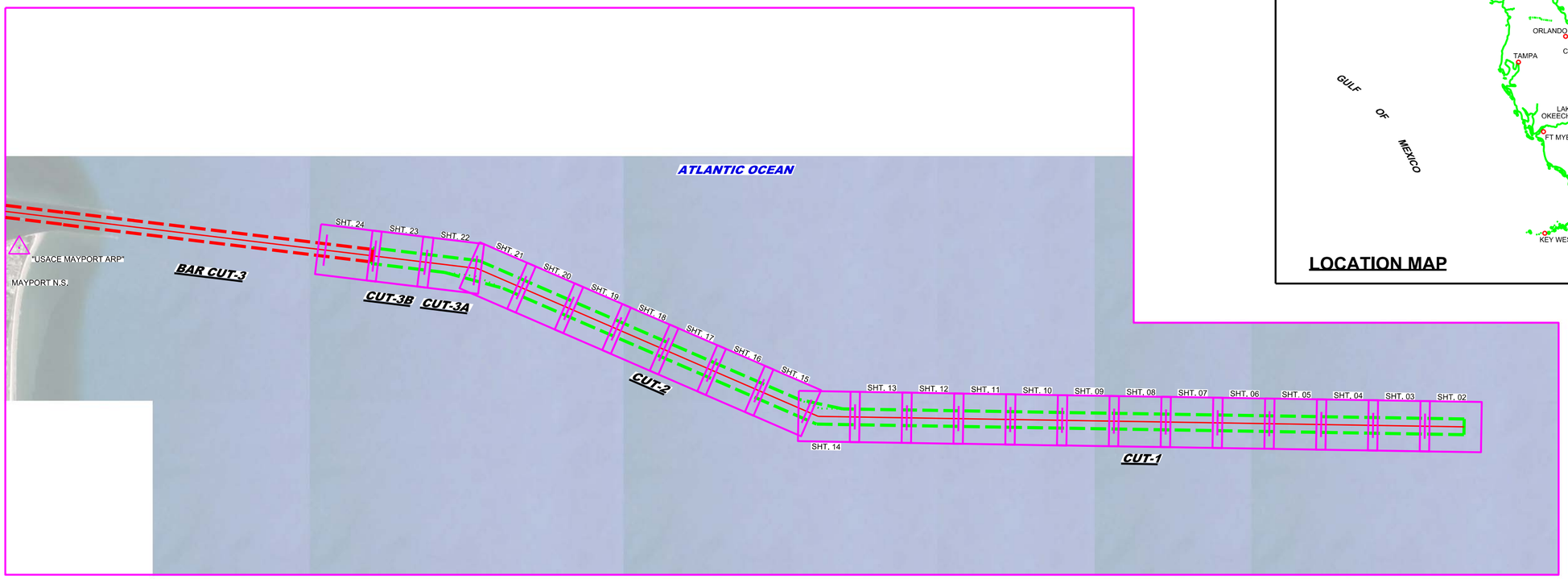
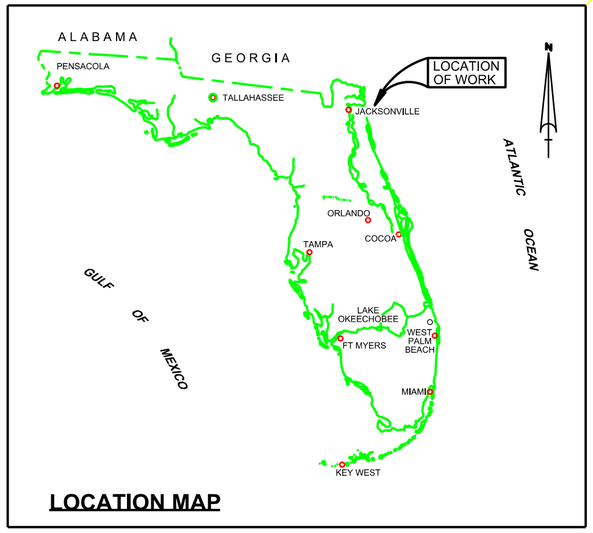
JACKSONVILLE HARBOR, FLORIDA
OUTER EXTENSION SURVEY FY22
50-FOOT PROJECT





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. 22-082.
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:

   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)

   TIDE STAFF LOCATED AT MORNING STAR MARINA (872 0218 TIDAL A)
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 HEIGHT OF THE BENCHMARK ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
8. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ. ALL SOUNDINGS SHOWN IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	AREA SURVEYED
SV SALZER	02-05 MAY 2022	JAX HARBOR OUTER EXTENSION

9. AIDS TO NAVIGATION WERE NOT 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 AND EM110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 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
Trv. No.
Date: MAY 2022
Ckd by: GMR

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-082-VIEWS.DGN
22-082-VINDEX_JHE.DGN
JAX HARBOR 47 EXTENSION-C-CNGMCF.DGN
Reference files
22-082-C-BS-BRGR.DGN
22-082-VH001_JHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

INDEX, LOCATION AND VICINITY

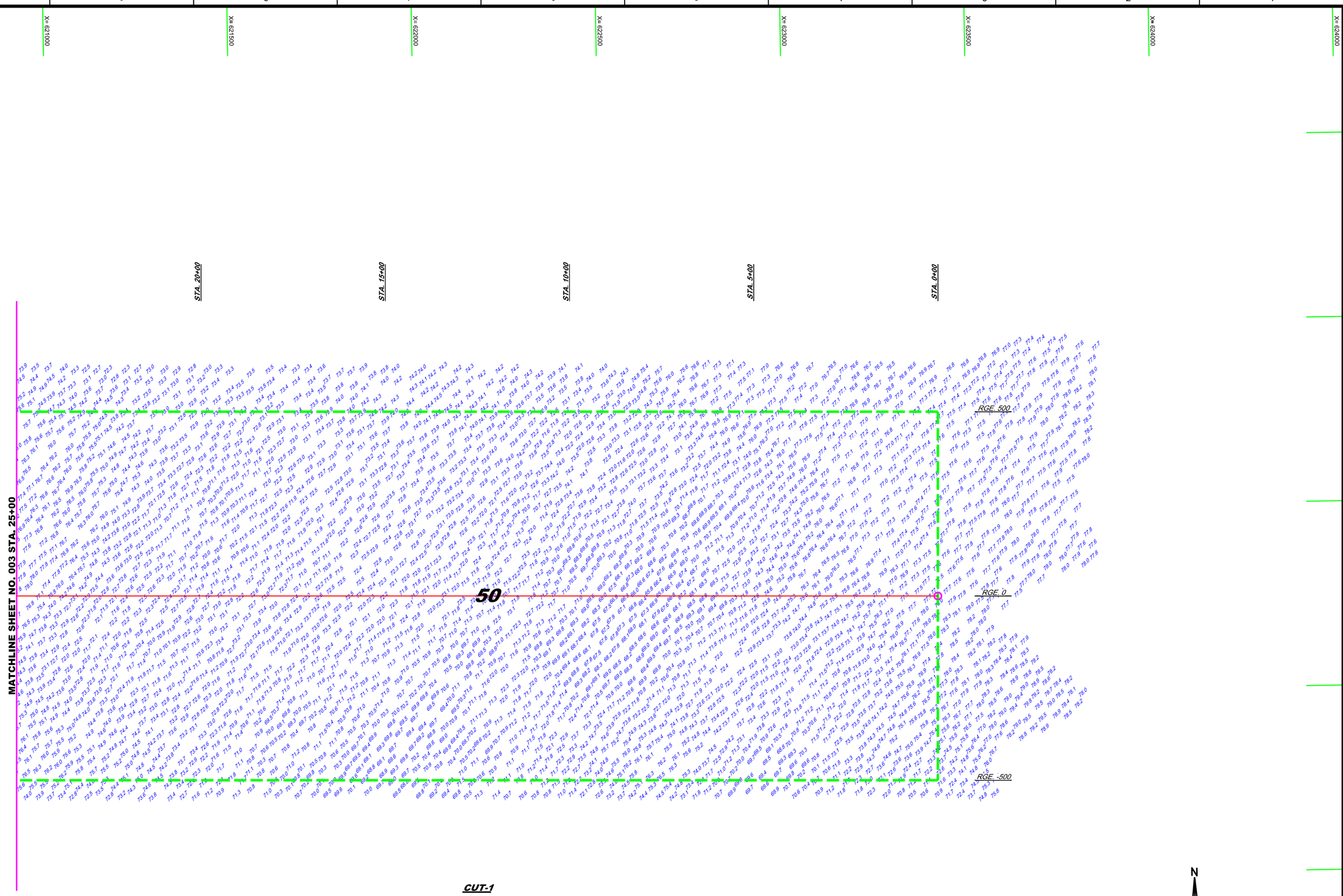
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 24



N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 22-082.
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: GMR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: MAY 2022

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-082-XX-XXXX.DGN
22-082-A-SUN_C1.DGN
JAX HARBOR 47 EXTENSION-C-NGMCCF.DGN
22-082-CABS-BRDR.DGN
Reference files:
22-082-VH-002_JHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 0+00 THRU STA. 25+00 CUT-1

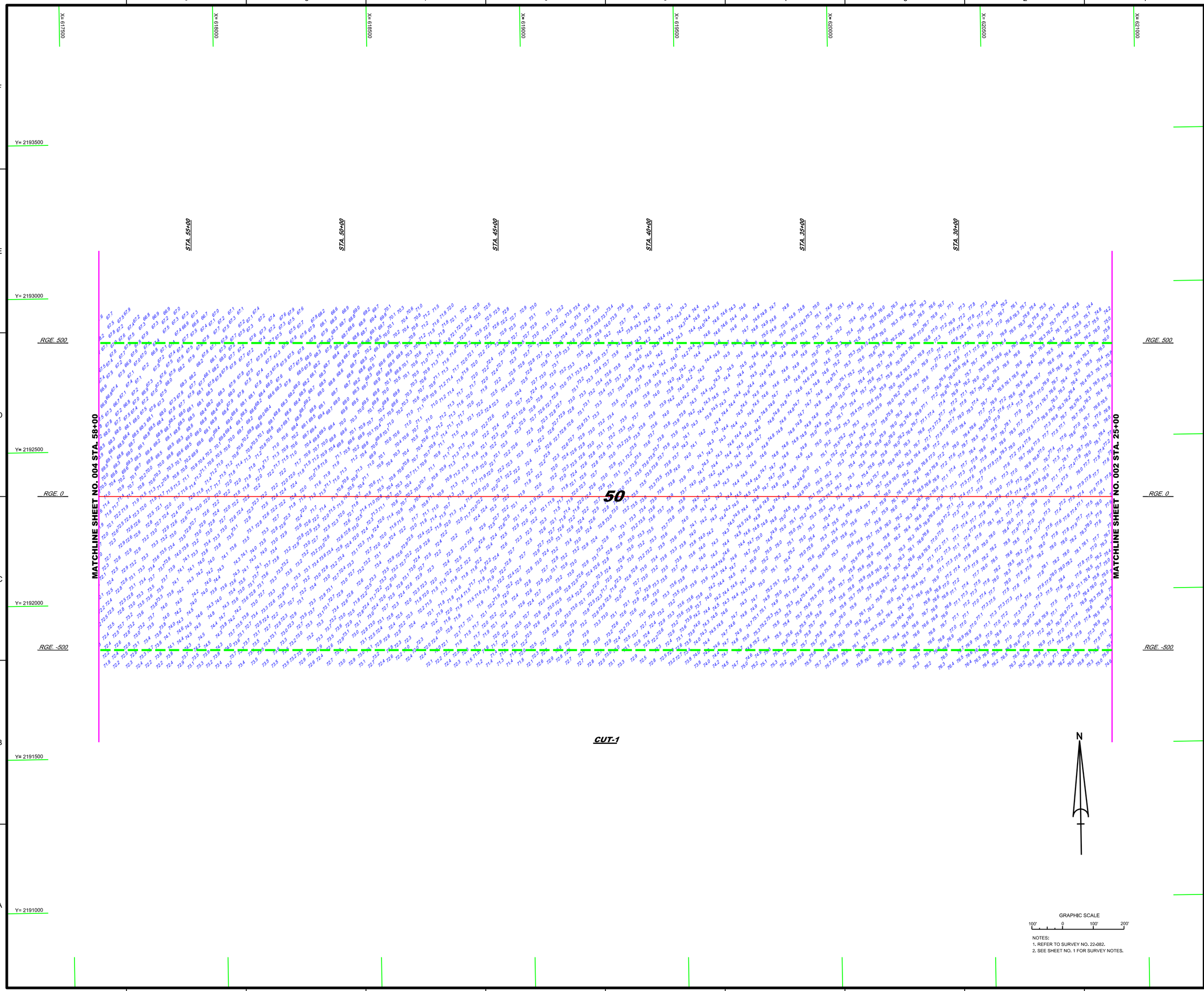
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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 2022

XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
22-082-VSOIL_C1.DGN
JAX HARBOR 47 EXTENSION-CAD\MCCF.DGN
Reference files:
22-082-VH-003_JHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 25+00 THRU STA. 58+00 CUT-1

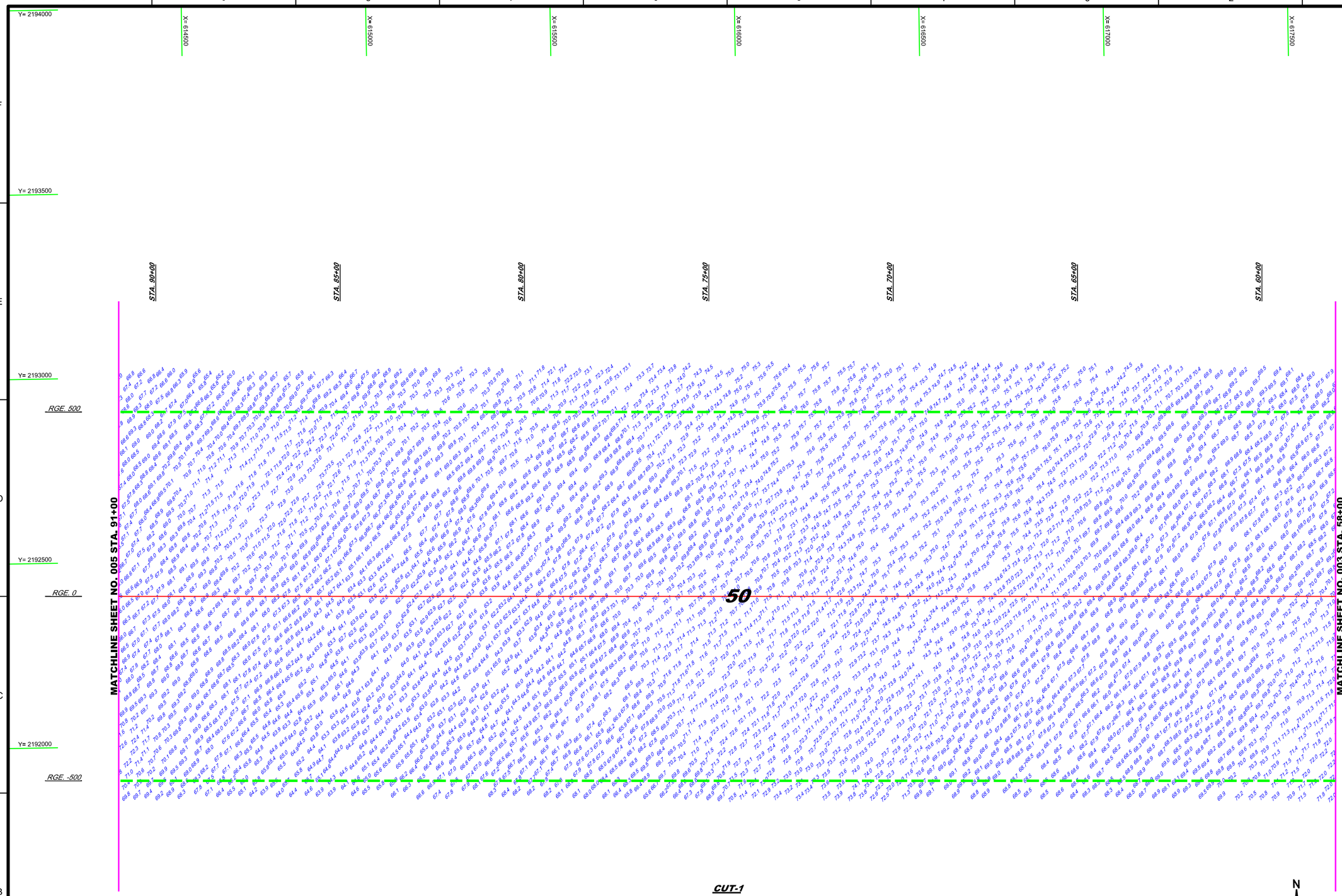
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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
Trv. No.
Date: MAY 2022

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
22-082-A-BSLN_C1.DGN
JAX HARBOR 47 EXTENSION-C-NGMCF.DGN
22-082-C-BS-BRDR.DGN
Reference files
22-082-VH-004_JHE.DGN
Parameters

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

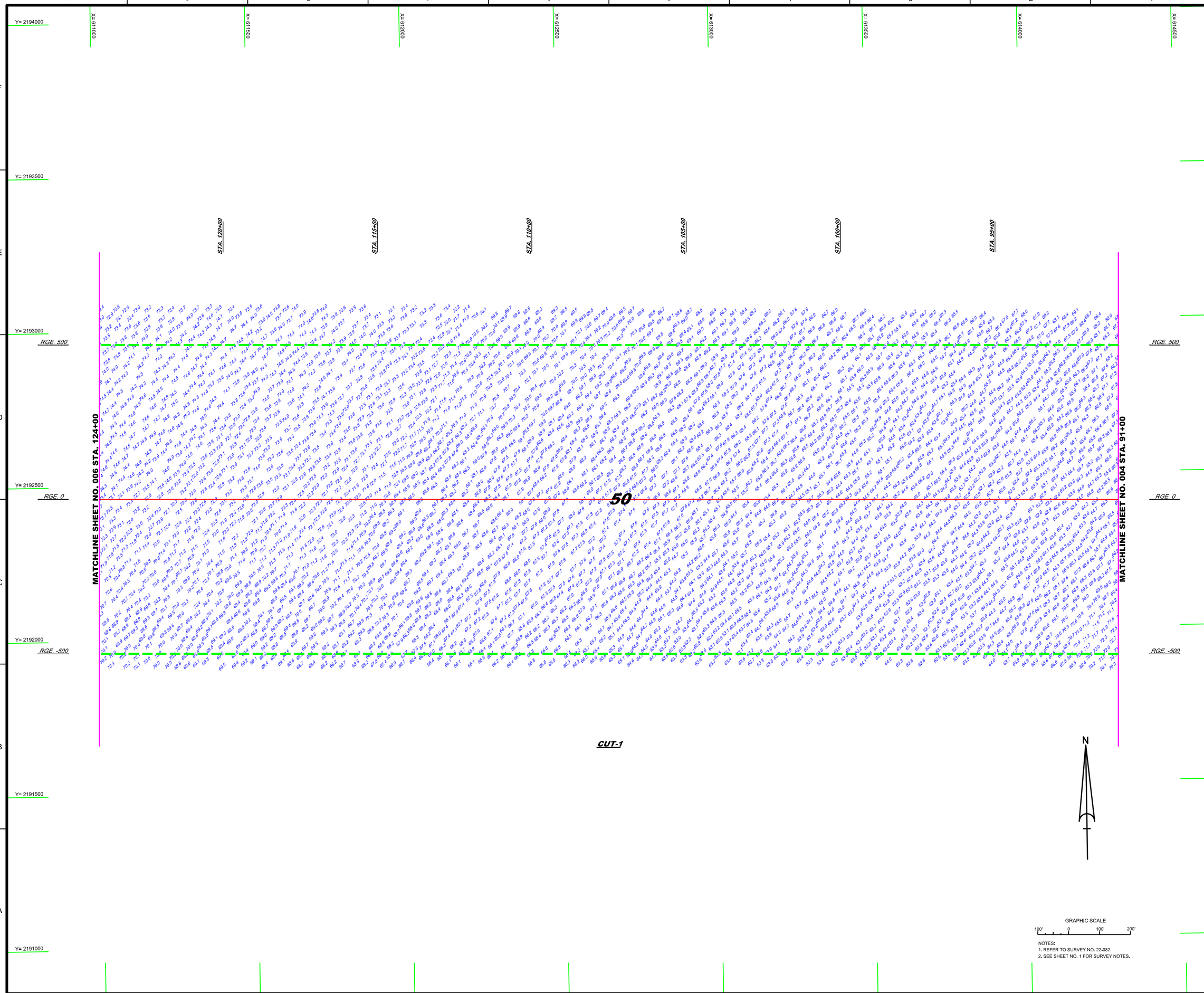
STA. 58+00 THRU STA. 91+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.
4

SHEET 04 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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 2022

XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
22-082-A-SOUN_C1.DGN
JAX HARBOR 47 EXTENSION-CAISMCCF.DGN
22-082-C-SS-SNDR.DGN
Reference files:
22-082-VH-005_JHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 91+00 THRU STA. 124+00 CUT-1

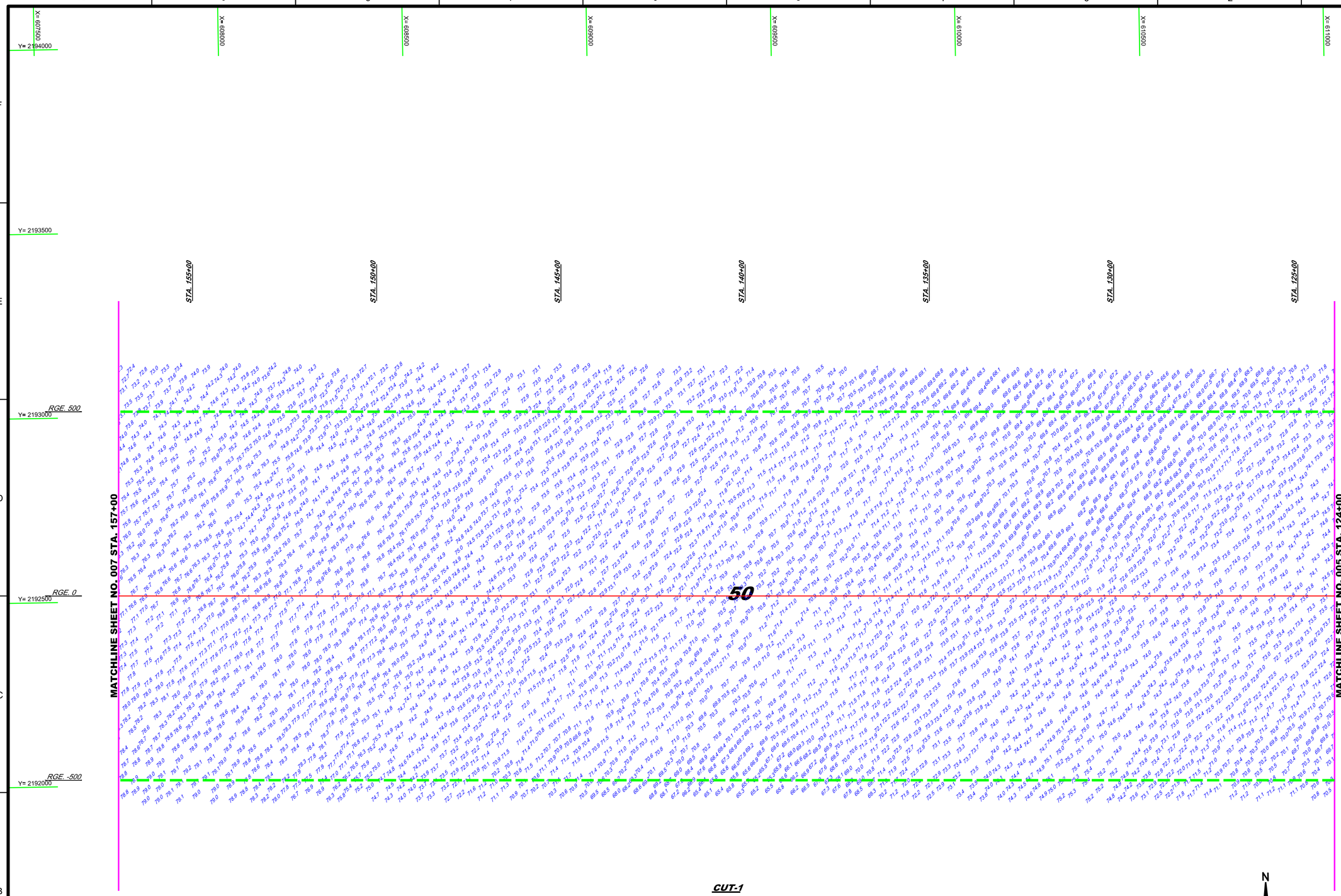
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 23



GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 22-082.
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: CMB
Designed by: WRM
DWN by: VRM
Rev. No.
Date: MAY 2022

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-082-ASCUN_C1.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
22-082-CHESBORD.DGN
Reference files:
22-082-VH-006_HELD.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 124+00 THRU STA. 157+00 CUT-1

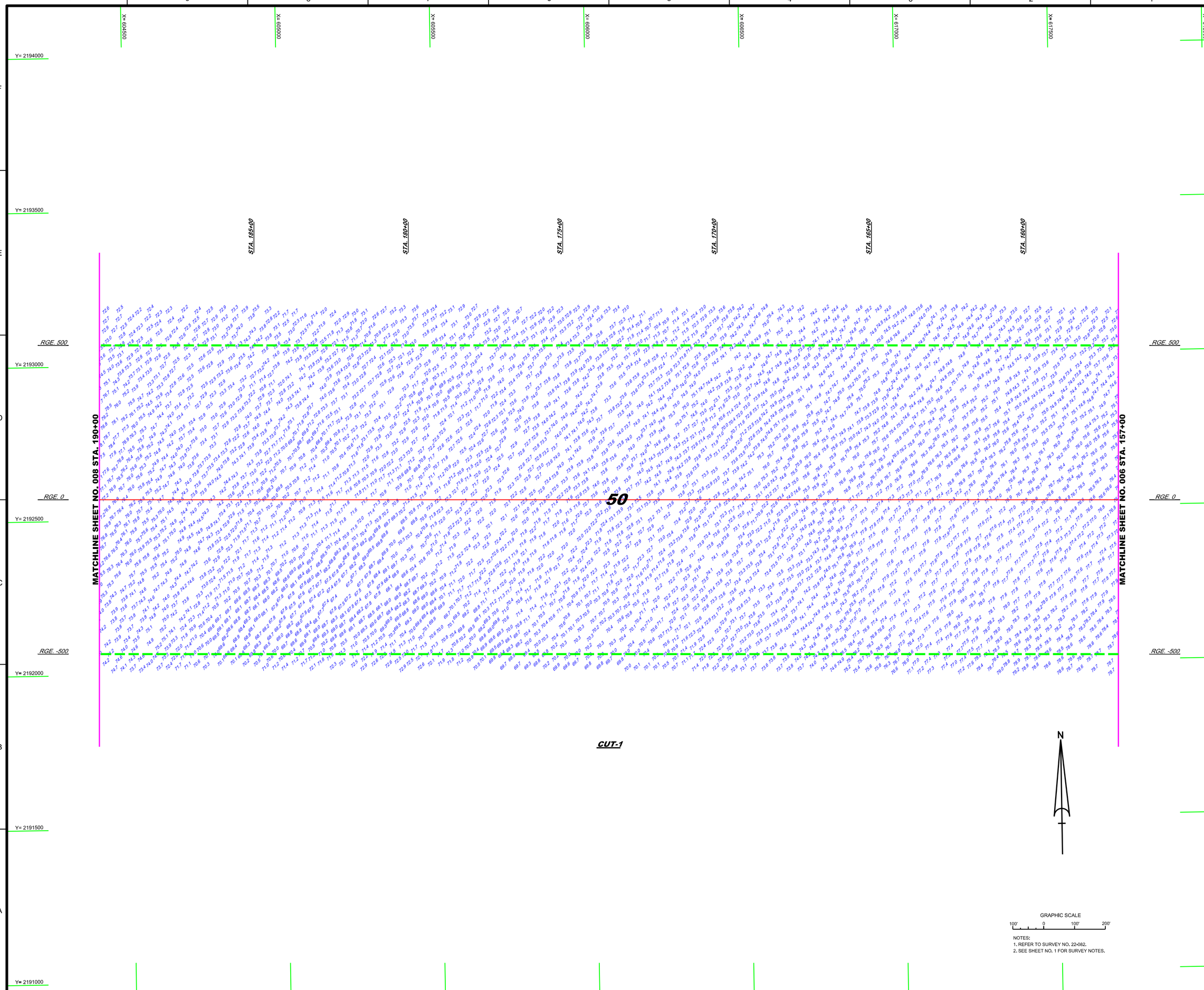
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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
Chk by: GMB
Rev. No.
Date: MAY 2022

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
22-082-MASQN_CT.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
22-082-OESHSNDR.DGN
Reference files:
22-082VHJ07_JHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 157+00 THRU STA. 190+00 CUT-1

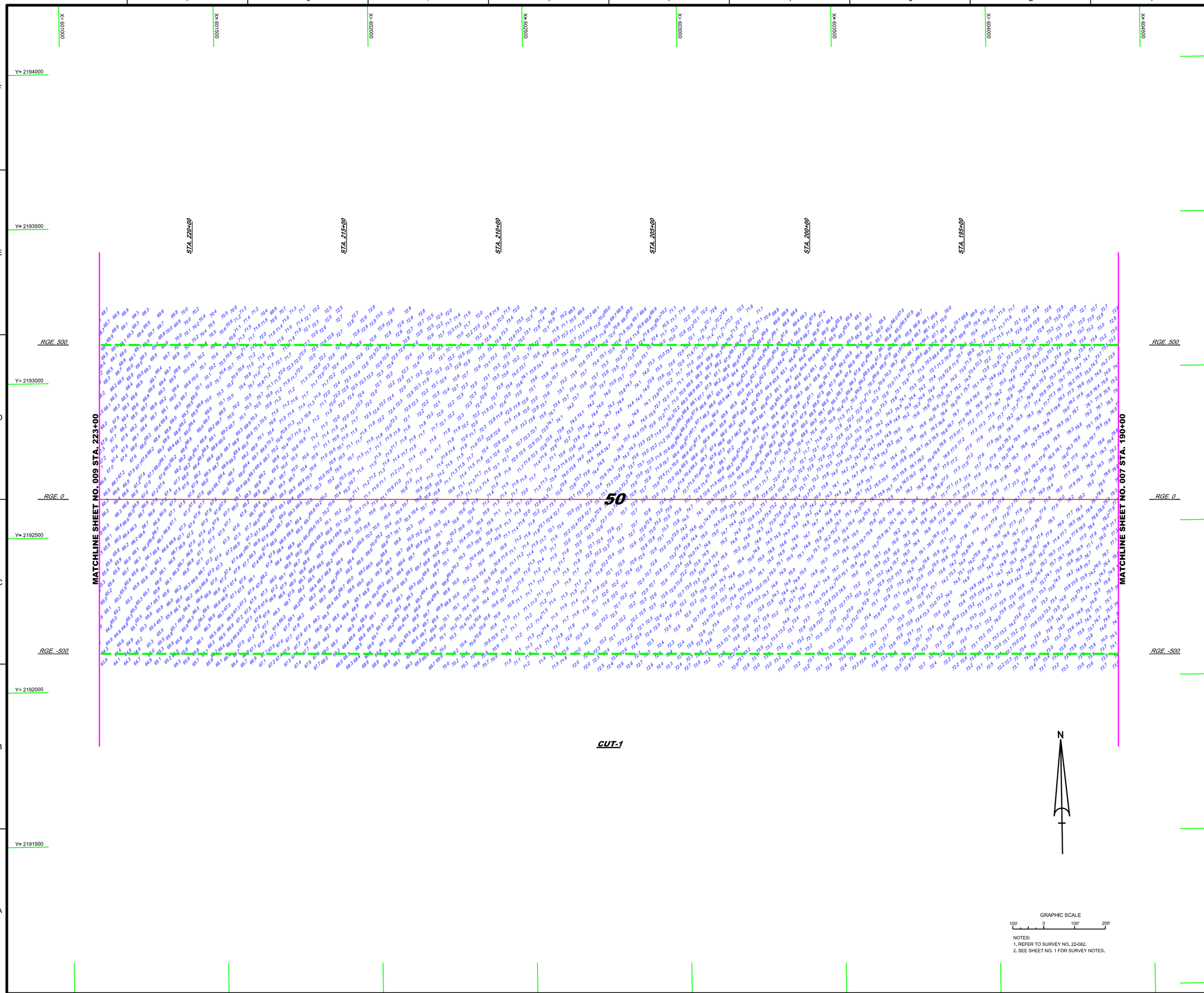
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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
Cad by: GMR
DWN by: WRM
Rev. No.
Date: MAY 2022

XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
22-082-A-SQUA_C1.DGN
JAX HARBOR 47 EXTENSION-C-NGMCCF.DGN
22-082-C-BS-SPEP.DGN
Reference files
22-082-VH-008_JHE.DGN
Raster

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

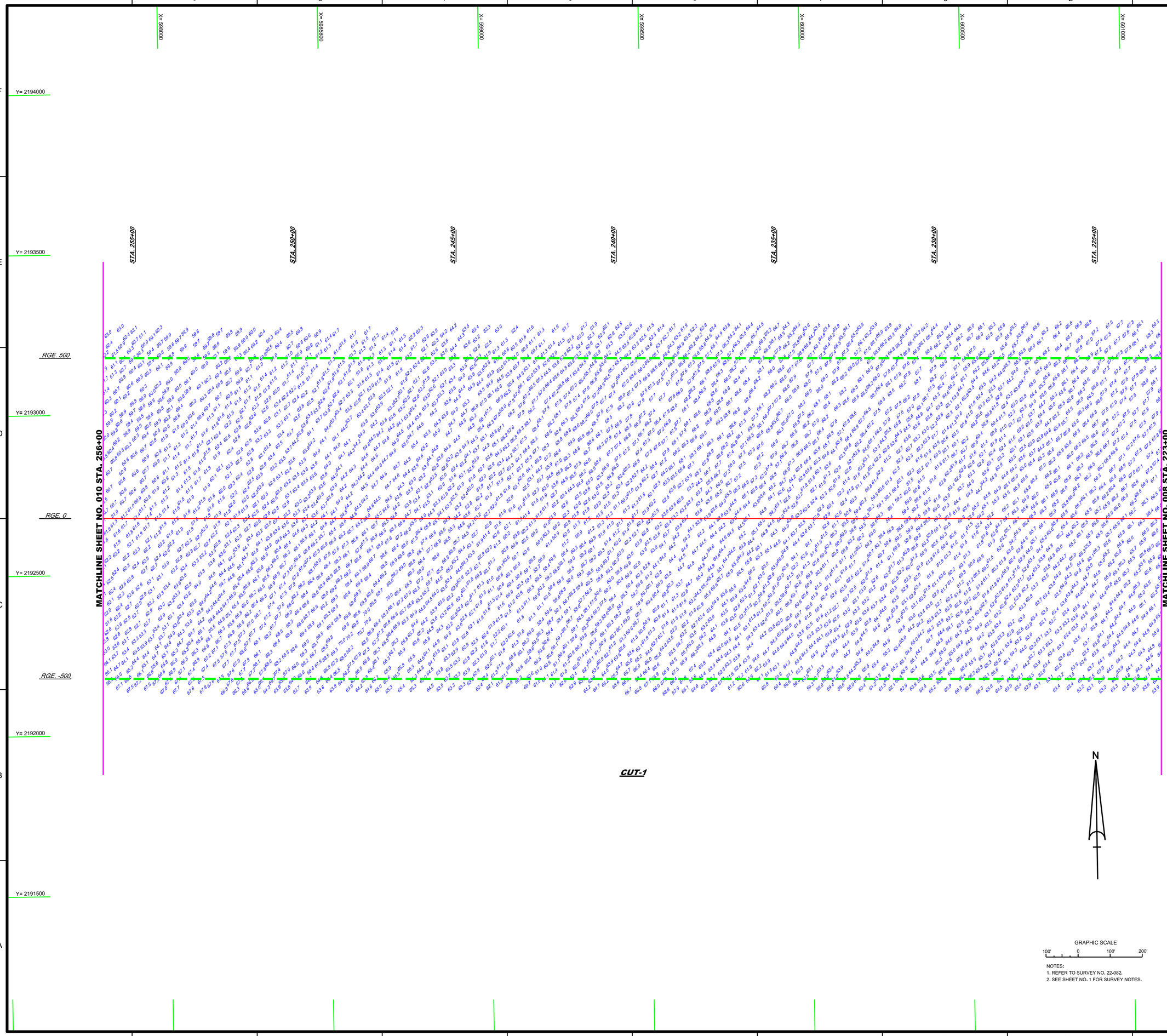
STA. 190+00 THRU STA. 223+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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.
Date: MAY 2022

Reference files:
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
22-082A-SOUN_C1.DGN
JAX HARBOR 47 EXTENSION-C-NGMCF.DGN
22-082-CAE-BRDR.DGN
File name: 22-082-VH-009_HE.DGN

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 223+00 THRU STA. 256+00 CUT-1

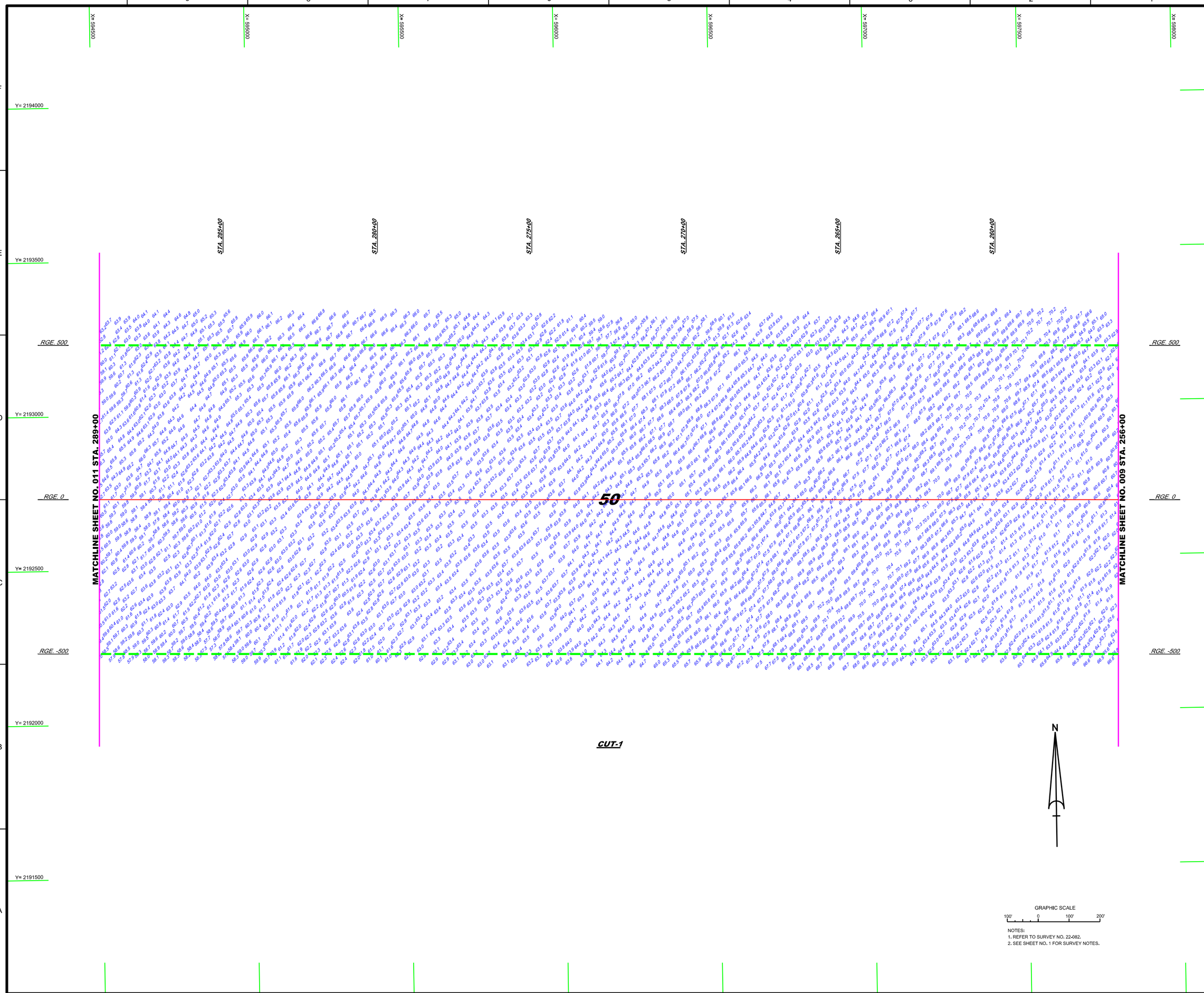
PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 23



NOTES:
1. REFER TO SURVEY NO. 22-082.
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
Trv. No.
Date: MAY 2022

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
22-082A-ASON_C1.DGN
JAX HARBOR 47 EXTENSION-CAGMCF.DGN
22-082A-CESBRDR.DGN
Reference files
22-082A-H-010_PHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 255+00 THRU STA. 289+00 CUT-1

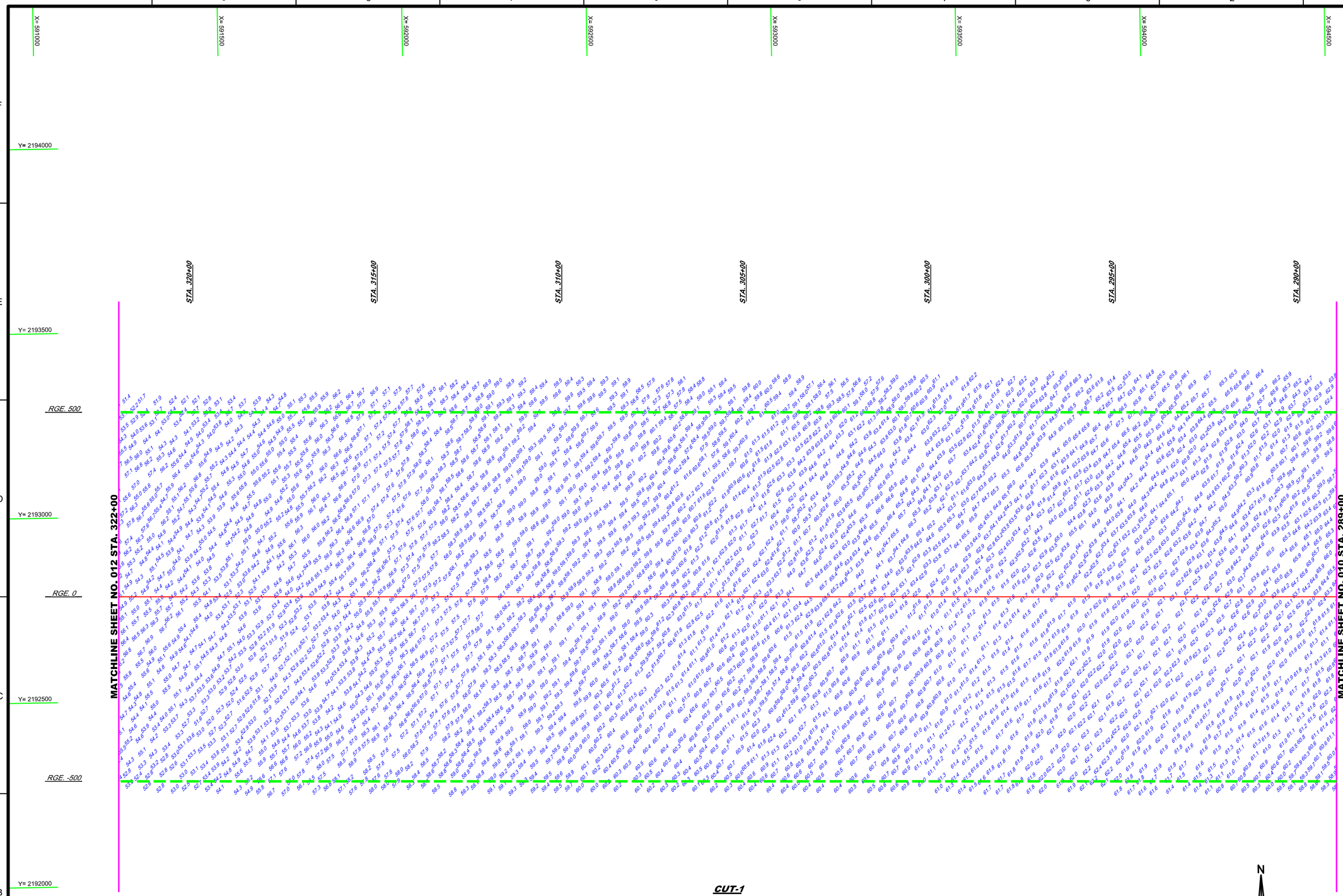
PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 23



N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 22-082.
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 2022

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
22-082-NASON_CT.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
22-082-0+SE-BNDR.DGN
Reference files:
22-082VH011_HHE.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 289+00 THRU STA. 322+00 CUT-1

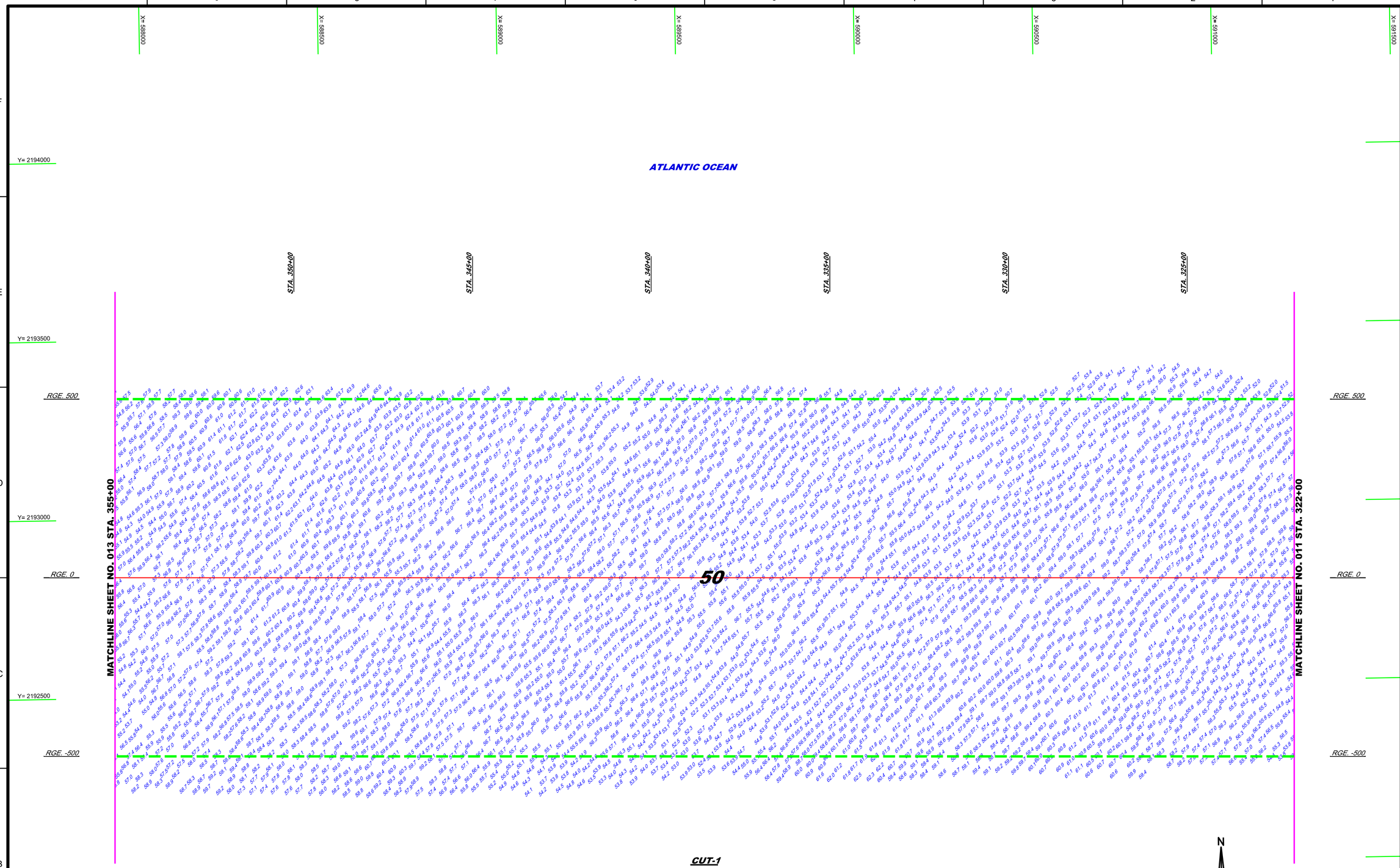
PLAN

Scale: AS SHOWN

Drawing no.

11

SHEET 11 OF 23



N

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 22-082.
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: CMB
Designed by: WRM
DWN by: VRM
Rev. No.
Date: MAY 2022

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-082-ASSUN_C1.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
22-082-CHB-BORD.DGN
Reference files:
22-082-VH-012_HELD.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY22
OUTER CHANNEL EXTENSION

STA. 322+00 THRU STA. 355+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.

12

SHEET 12 OF 23