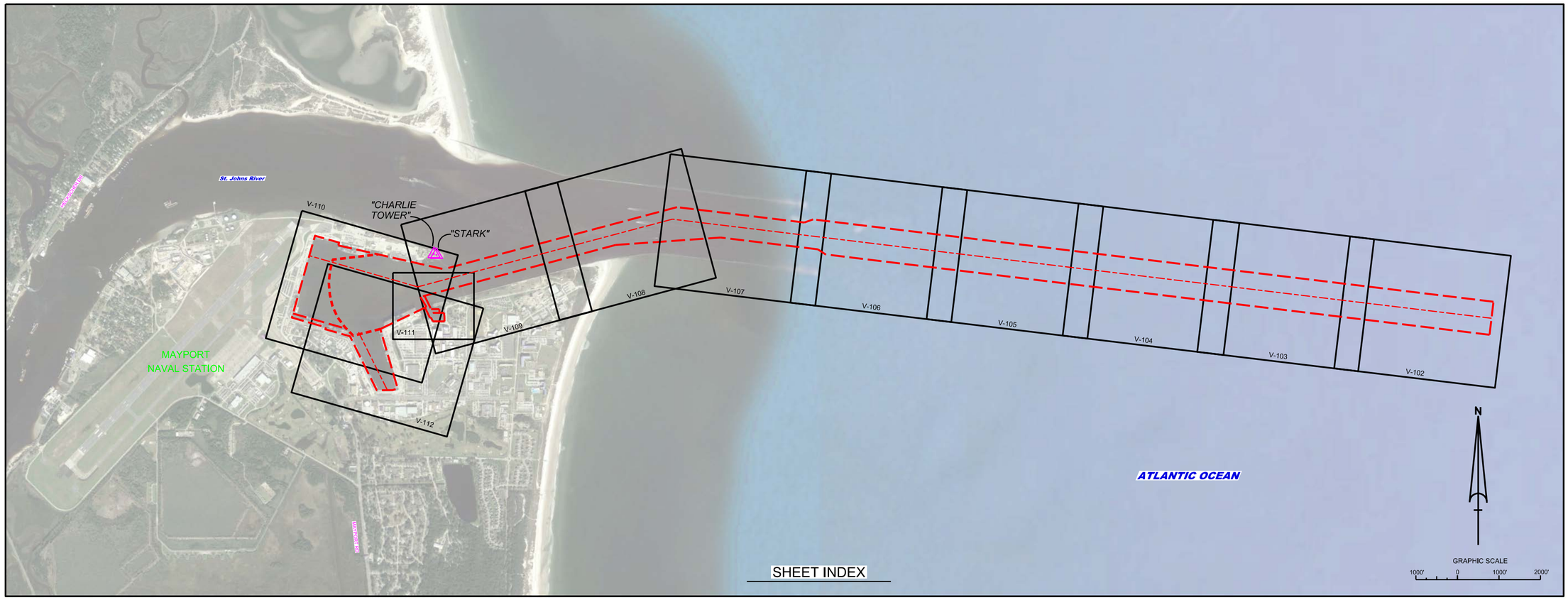
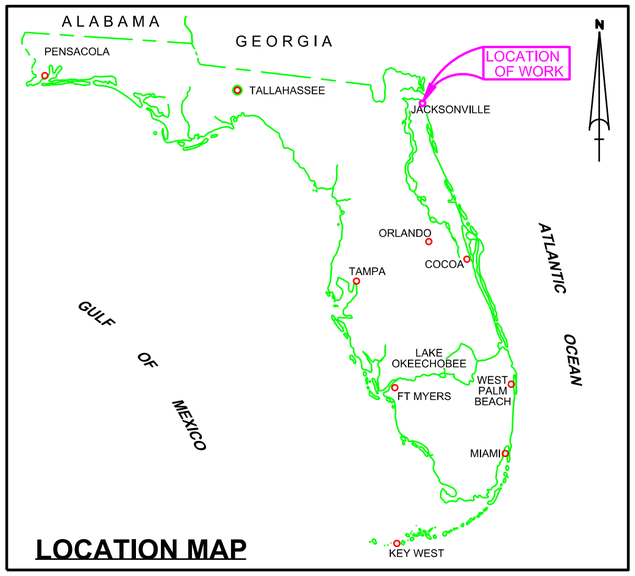
U.S. NAVAL STATION MAYPORT
4Q HYDROGRAPHIC EXAM SURVEY
FY19





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. 19-251.
2. 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 GAUGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
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: "CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_01FEB2011.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 LOCATION:

   REFERENCE BASE LOCATED AT "CHARLIE TOWER ARP" (OPUS PID: BBDC09)
8. VERTICAL MEASUREMENTS WERE MADE USING A EDGETECH 6505 MULTI-BEAM SENSOR OPERATING AT 240 KHZ. A R2SONIC 2024 MULTI-BEAM SYSTEM AND A ROSS MODEL 835 SMART SOUNDER OPERATING AT 28/200 KHZ . ALL MULTI-BEAM SOUNDINGS & SINGLE-BEAM SOUNDINGS FROM STA. 0+00 TO 56+28 IN THE MEC ARE IN HIGH FREQUENCY. ALL OTHER SINGLE-BEAM SOUNDINGS IN TURNING BASIN, SLIP, SMALL BOAT BASIN AND MEC STA. 56+28 TO 63+42 ARE IN LOW FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	11-12 SEP 2019	ENTRANCE CHANNEL, SLIP, TURNING BASIN, SMALL BOAT BASIN
SV JACKSONVILLE	19 SEP 2019	ENTRANCE CHANNEL
SV JACKSONVILLE	23 SEP 2019	E.C., BAR CUT-3
SV JACKSONVILLE	27 SEP 2019	BAR CUT-3
SV JACKSONVILLE	03 OCT 2019	BAR CUT-3

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.

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:
Drawn by: WRM
Rev. No.
Date: SEP 2019
Cad by:

19-251-A-B-BRGR.DGN
MAYPORT-4-ORIGINCF.DGN
Reference files:
19-251-MAYPORT-VH-101.DGN
File name:

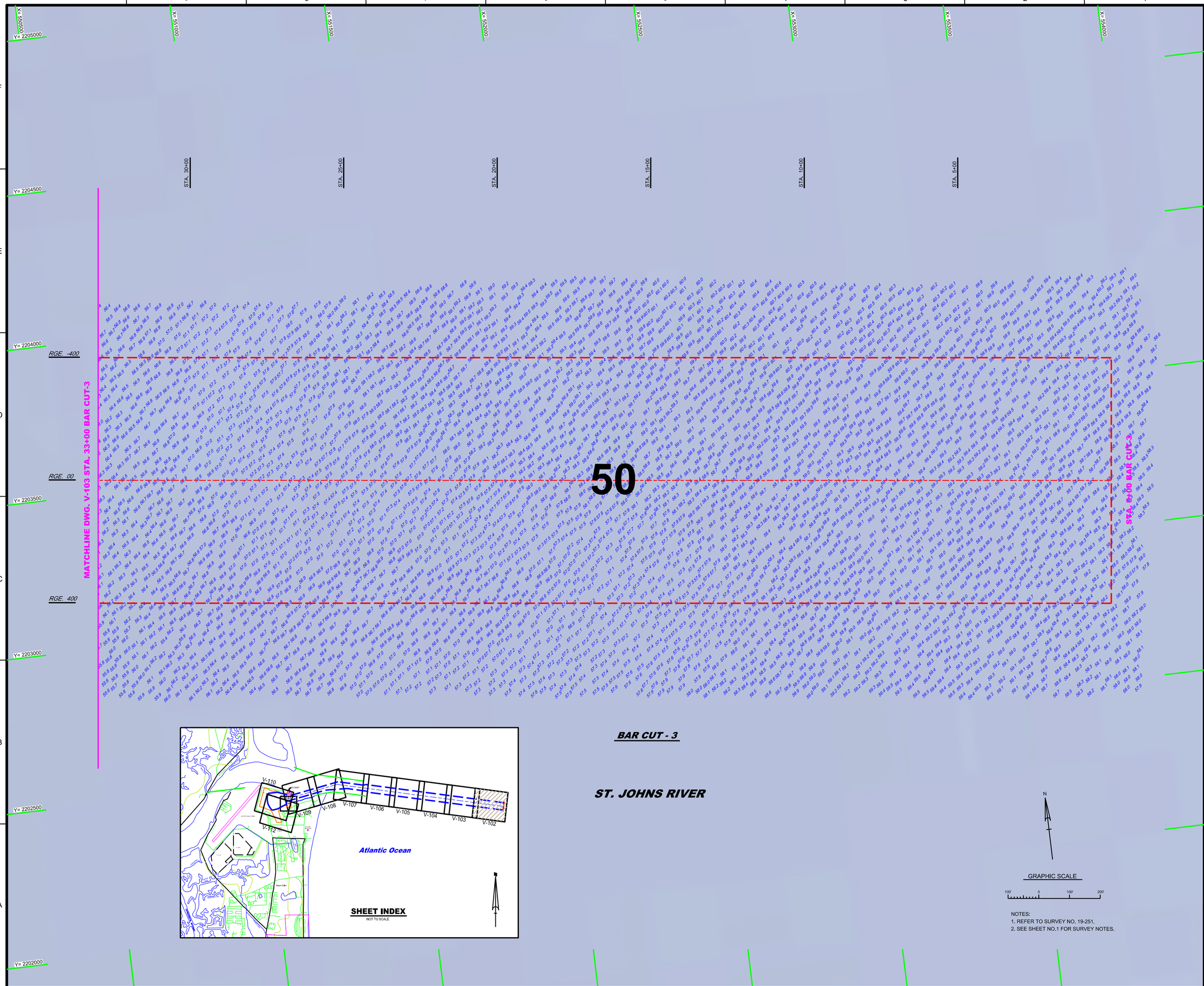
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY

Scale: AS SHOWN

Drawing no.

VH-101



NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Drawn by: WRM
Rev. No.
Date: SEP 2019

19-251-0-R-BR-PLAN
MAYPORT-PLAN-COVER.DGN
19-251-V-SOUN_BC3_HF.DGN

Reference files:
Title name: 19-251-MAYPORT-V-H-102.DGN

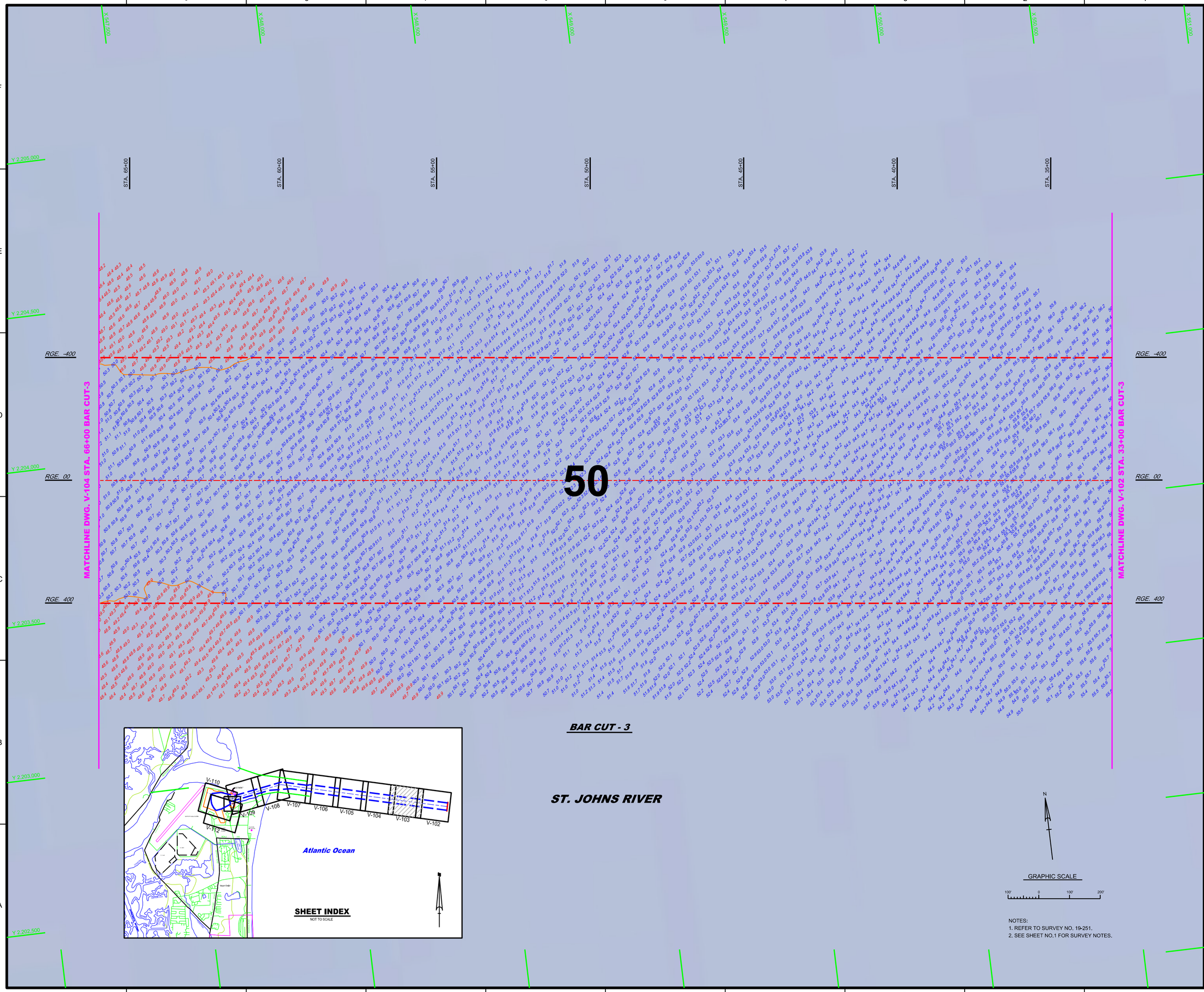
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 0+00 TO STA 33+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-102



NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Dwn by: WRM
Ckd by:
Rev. No.
Date: SEP 2019

Reference files:
19-251-LA-BLRSTR.DGN
MAYPORT-SHORELINE.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-CONS0LDGN

Title name: 19-251-MAYPORT-V-H-103.DGN

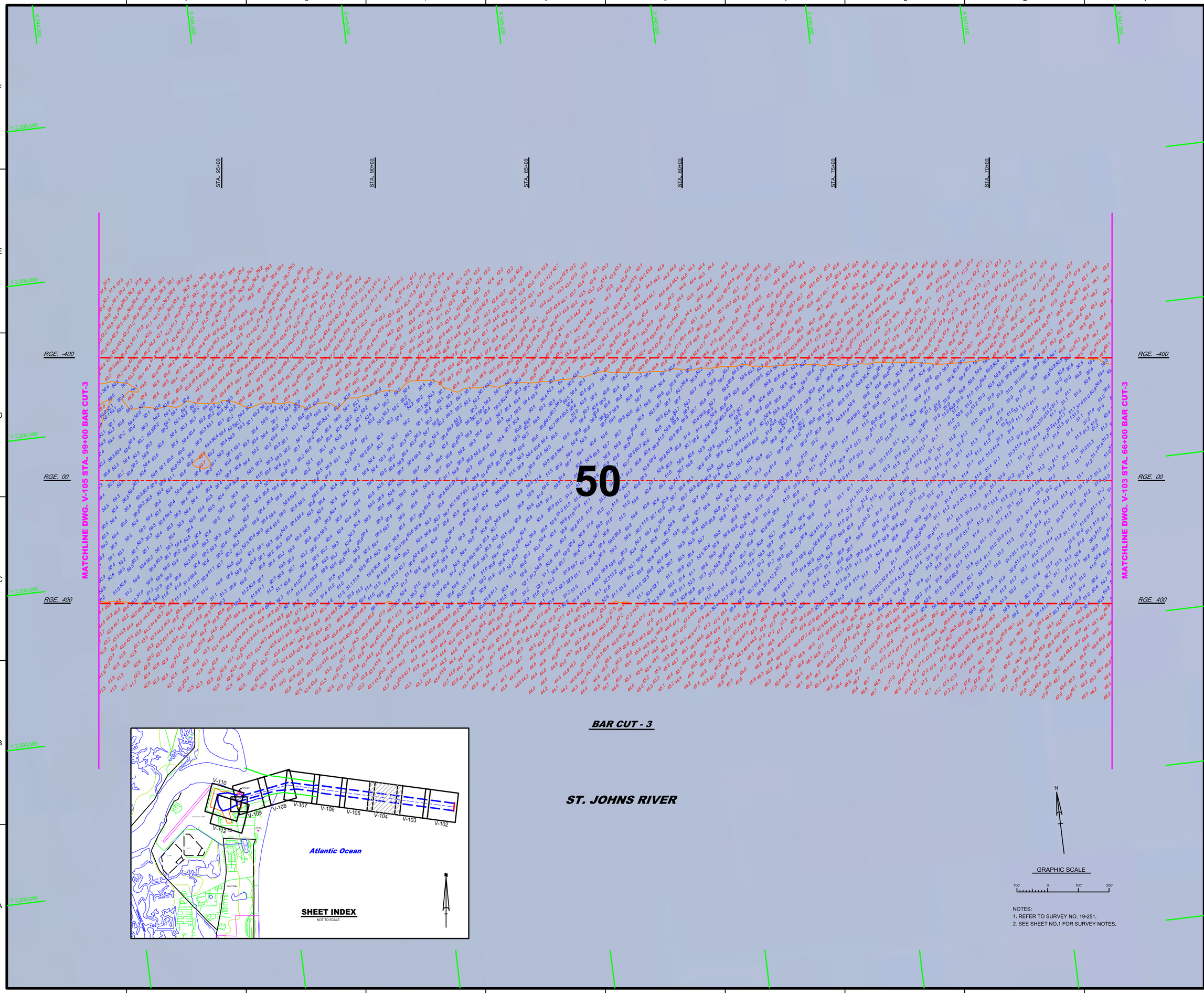
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 33+00 TO STA 66+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-103



NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Cad by:
DWN by: WRM
Rev. No.
Date: SEP 2019

Reference files:
19-251-C-SUR-BRDR.DGN
MAYPORT-PHS-HRDR.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-CONS.DGN

File name: 19-251-MAYPORT-V16-104.DGN

U.S. NAVAL STATION
MAYPORT, FLORIDA

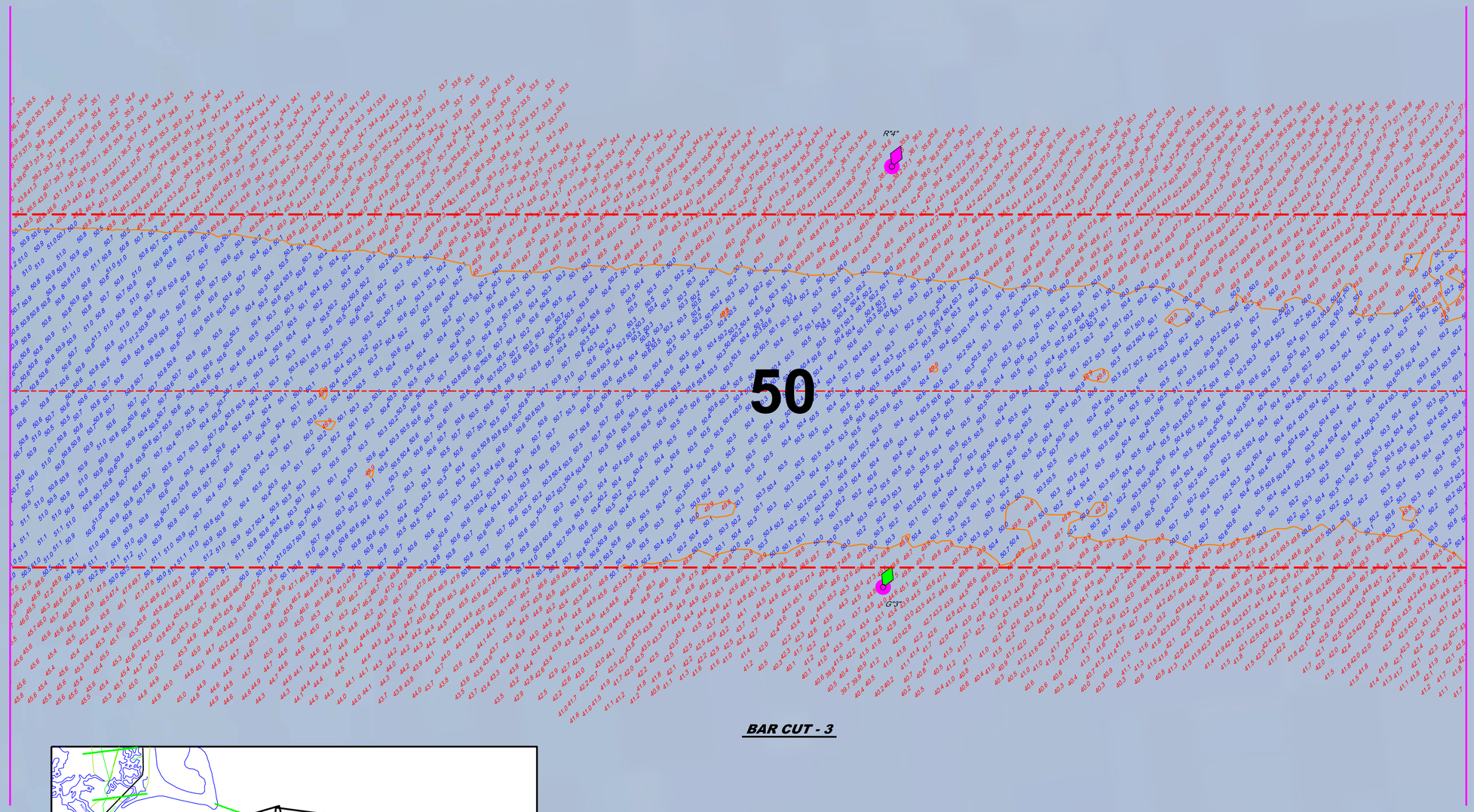
4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 66+00 TO STA 99+00 BAR CUT-3
PLAN

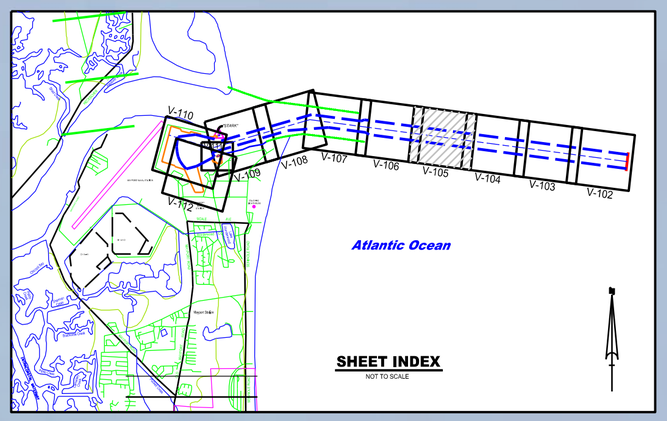
Scale: AS SHOWN

Drawing no.

V-104

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (09/19)	542,664	2,204,055	30°23'44.89"	81°21'36.03"
R"4"	LT. BUOY-4 (09/19)	542,798	2,204,999	30°23'54.24"	81°21'34.53"





GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Dwn by: WRM
Ckd by:
Rev. No.
Date: SEP 2019

19-251-L-S-B-BRGR.DGN
19-251-V-SFL-BRGR-COF.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-CONS0.DGN
19-251-V-NAV.DGN
Reference files:

19-251-MAYPORT-VH-105.DGN
File name:

U.S. NAVAL STATION
MAYPORT, FLORIDA

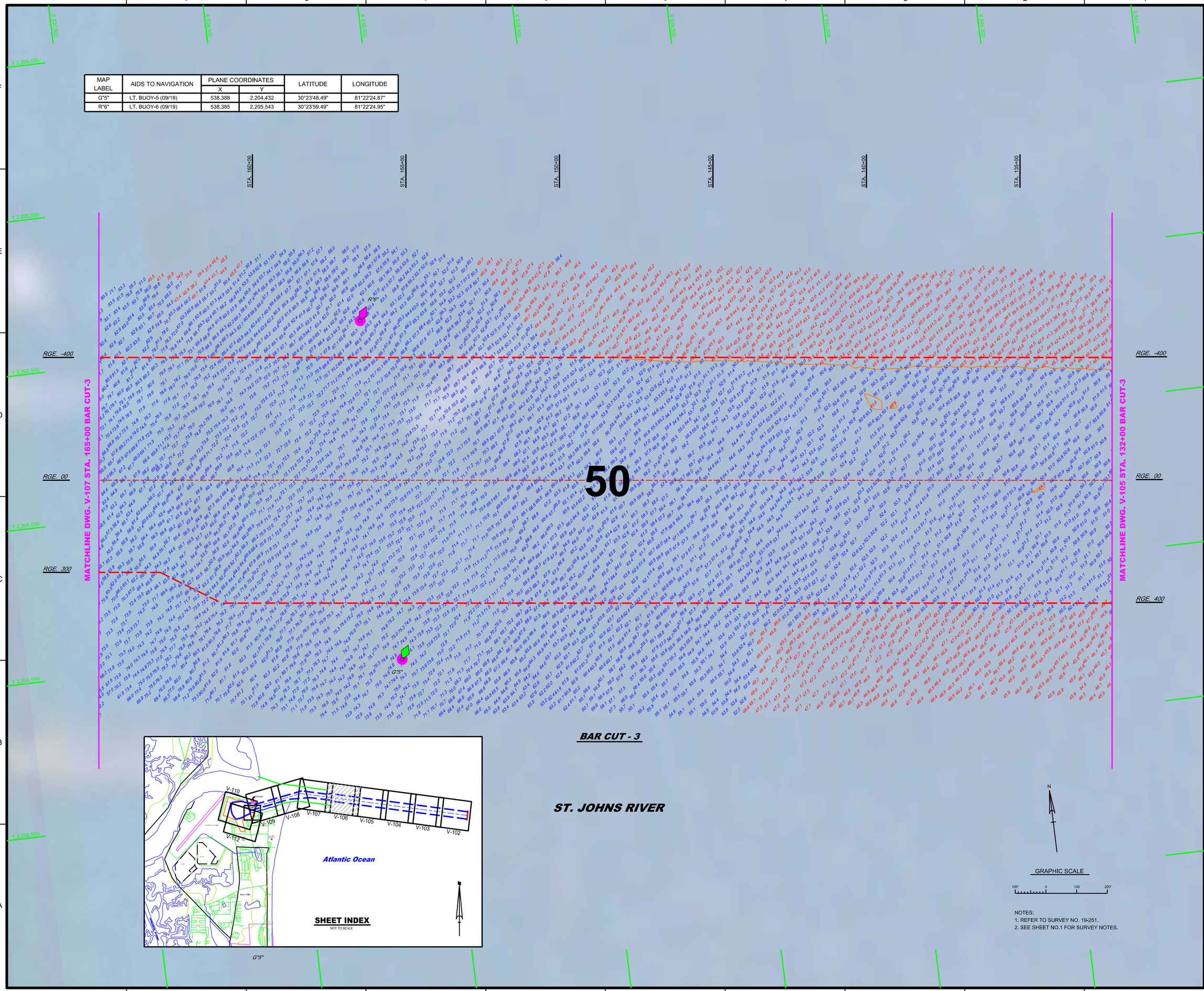
4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 99+00 TO STA 132+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-105

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (09/19)	538,388	2,204,432	30°23'48.49"	81°22'24.87"
R"6"	LT. BUOY-6 (09/19)	538,385	2,205,543	30°23'59.49"	81°22'24.95"



NOTES:
1. REFER TO SURVEY NO. 19-251.
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: | Dwn by: WRM | Chk by: | Rev. No.: | Date: SEP 2019

19-251-0-B-BRGRCOR.DGN
19-251-0-V-CONSOLIDA.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-CONSOLDGN
19-251-V-NAV.DGN

Reference files:

19-251-MAYPORT-VH-106.DGN
File name:

U.S. NAVAL STATION
MAYPORT, FLORIDA

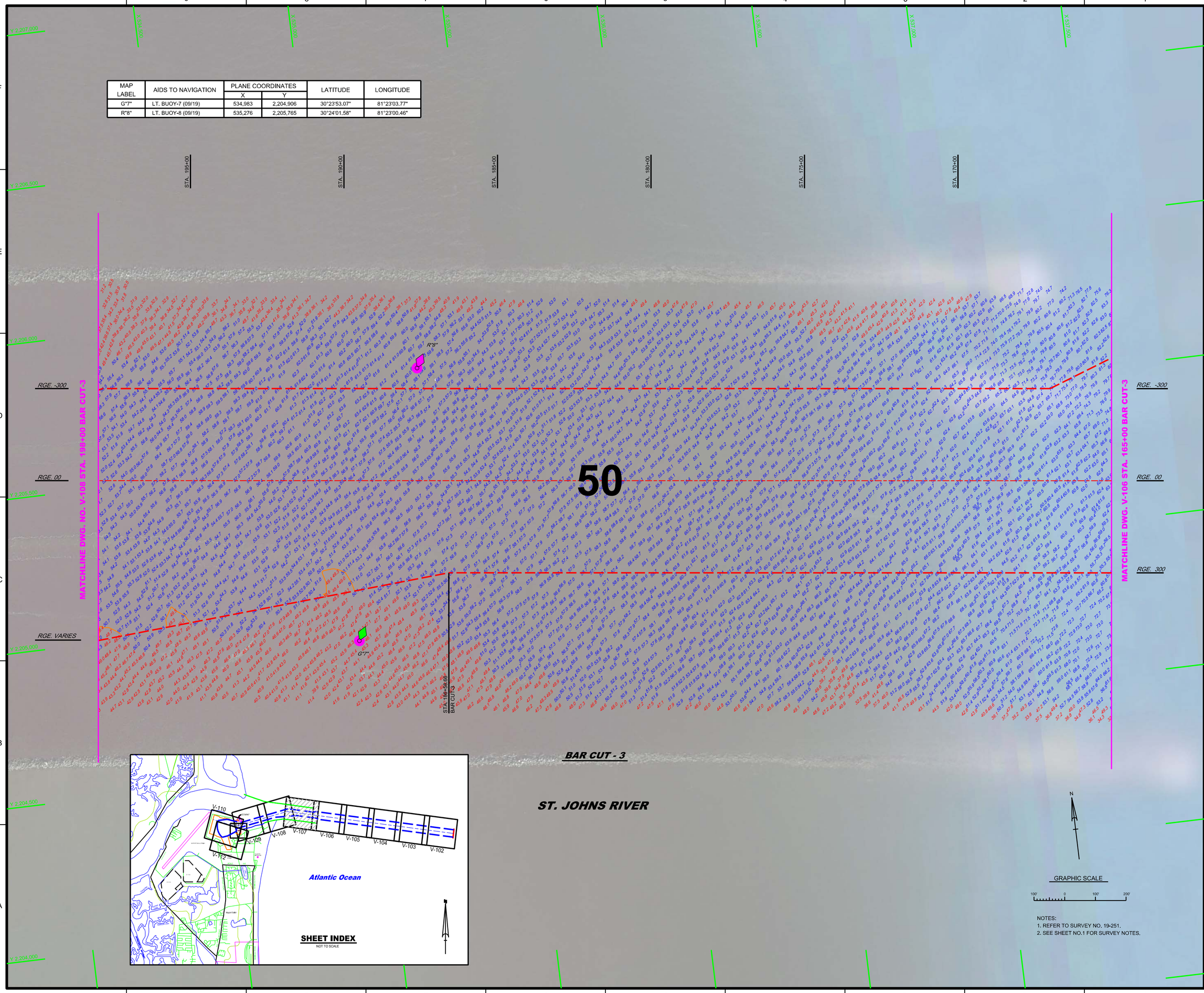
4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 132+00 TO STA 165+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-106

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	LT. BUOY-7 (09/19)	534,983	2,204,906	30°23'53.07"	81°23'03.77"
R"8"	LT. BUOY-8 (09/19)	535,276	2,205,765	30°24'01.58"	81°23'00.46"



NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Cad by:
DWN by: WRM
Rev. No.
Date: SEP 2019

19-251-C-BJE-BRDR.DGN
19-251-V-SOUN_ALL_HF.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-SOUN_EC_HF.DGN
19-251-V-SOUN_HF.DGN
19-251-V-NAV.DGN

Reference files:
19-251-MAYPORT-VH-107.DGN
File name:

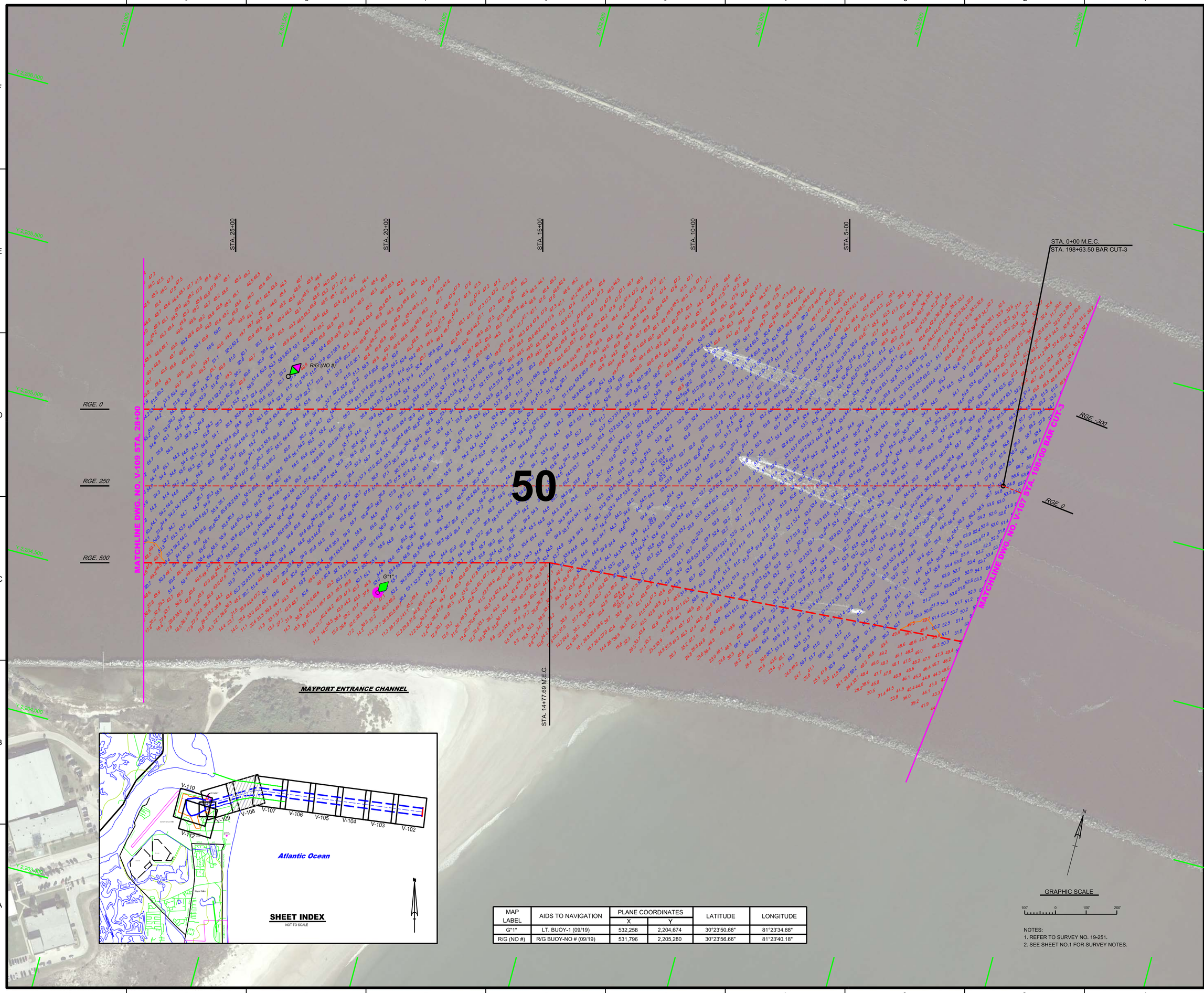
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 165+00 TO STA 198+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-107



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT. BUOY-1 (09/19)	532,258	2,204,674	30°23'50.68"	81°23'34.88"
R/G (NO #)	R/G BUOY-NO # (09/19)	531,796	2,205,280	30°23'56.66"	81°23'40.18"

NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Chkd by:
DWN by: WRM
Rev. No.
Date: SEP 2019

Reference files:
19-251-U-BS-BRGR.DGN
MAYPORT-BASE-GRID.DGN
19-251-V-SOUN_EC_HF.DGN
19-251-V-SOUN_BC3_HF.DGN
19-251-V-CONS0.DGN
19-251-V-VAN1.DGN

File name: 19-251-MAYPORT-VH-108.DGN

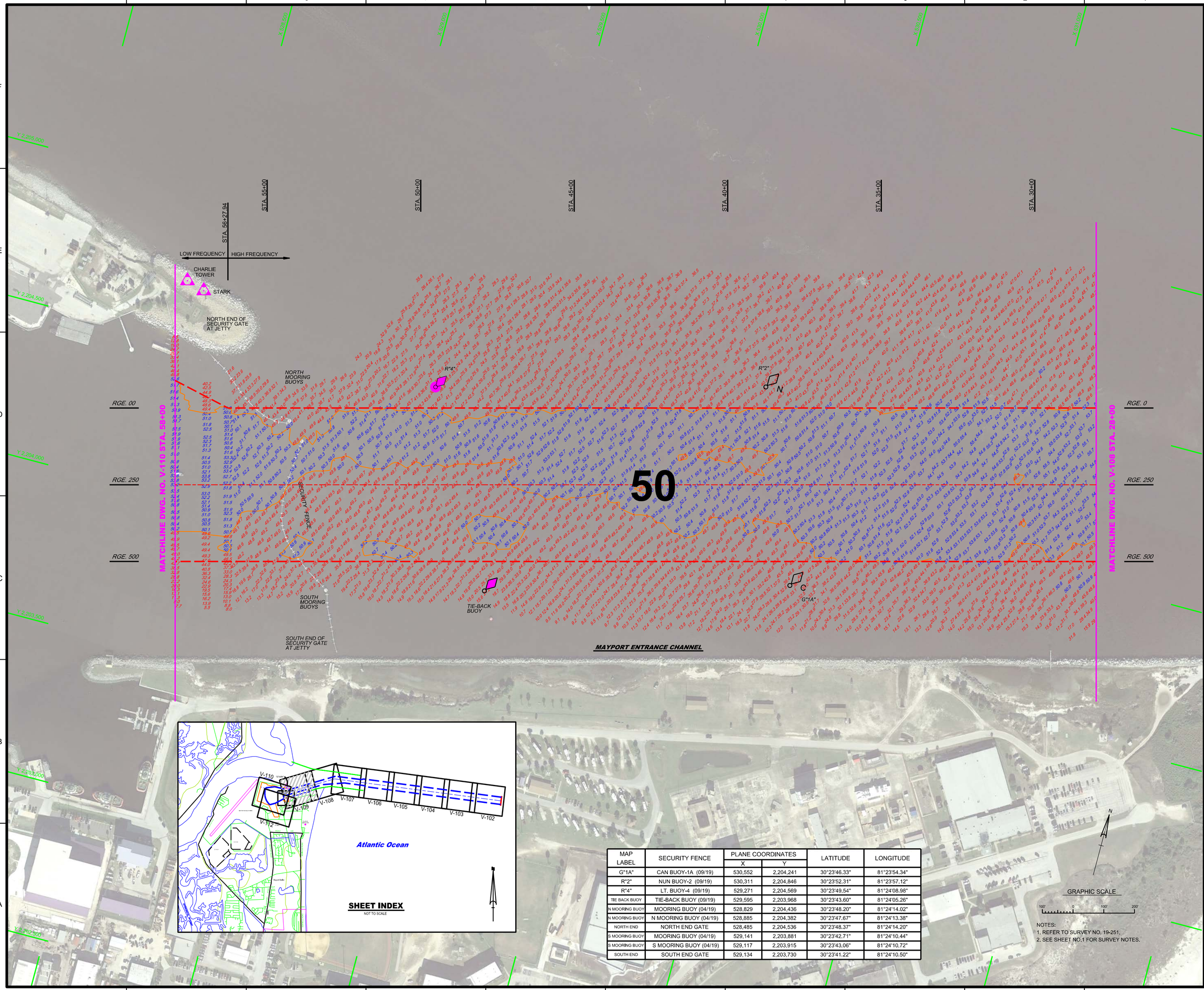
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 198+00 BAR CUT-3 TO STA 28+00 ENTRANCE CHANNEL
PLAN

Scale: AS SHOWN

Drawing no.

V-108



MAP LABEL	SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1A"	CAN BUOY-1A (09/19)	530,552	2,204,241	30°23'46.33"	81°23'54.34"
R"2"	NUN BUOY-2 (09/19)	530,311	2,204,846	30°23'52.31"	81°23'57.12"
R"4"	LT. BUOY-4 (09/19)	529,271	2,204,569	30°23'49.54"	81°24'08.98"
TIE BACK BUOY	TIE-BACK BUOY (09/19)	529,595	2,203,968	30°23'43.60"	81°24'05.26"
N MOORING BUOY	MOORING BUOY (04/19)	528,829	2,204,436	30°23'48.20"	81°24'14.02"
N MOORING BUOY	N MOORING BUOY (04/19)	528,885	2,204,382	30°23'47.67"	81°24'13.38"
NORTH END	NORTH END GATE	528,485	2,204,536	30°23'48.37"	81°24'14.20"
S MOORING BUOY	MOORING BUOY (04/19)	529,141	2,203,881	30°23'42.71"	81°24'10.44"
S MOORING BUOY	S MOORING BUOY (04/19)	529,117	2,203,915	30°23'43.06"	81°24'10.72"
SOUTH END	SOUTH END GATE	529,134	2,203,730	30°23'41.22"	81°24'10.50"

NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Dwn by: WRM
Ckd by:
Rev. No.
Date: SEP 2019

19-251-C-B-BRGR.DGN
MAP-09-04-A-MOORING.DGN
19-251-V-SOUN_EC_HF.DGN
19-251-V-SOUN_EC_LF.DGN
19-251-V-SOUN_EC.DGN
19-251-V-NAV.DGN

Reference files:
19-251-MAYPORT-VH-109.DGN
File name:

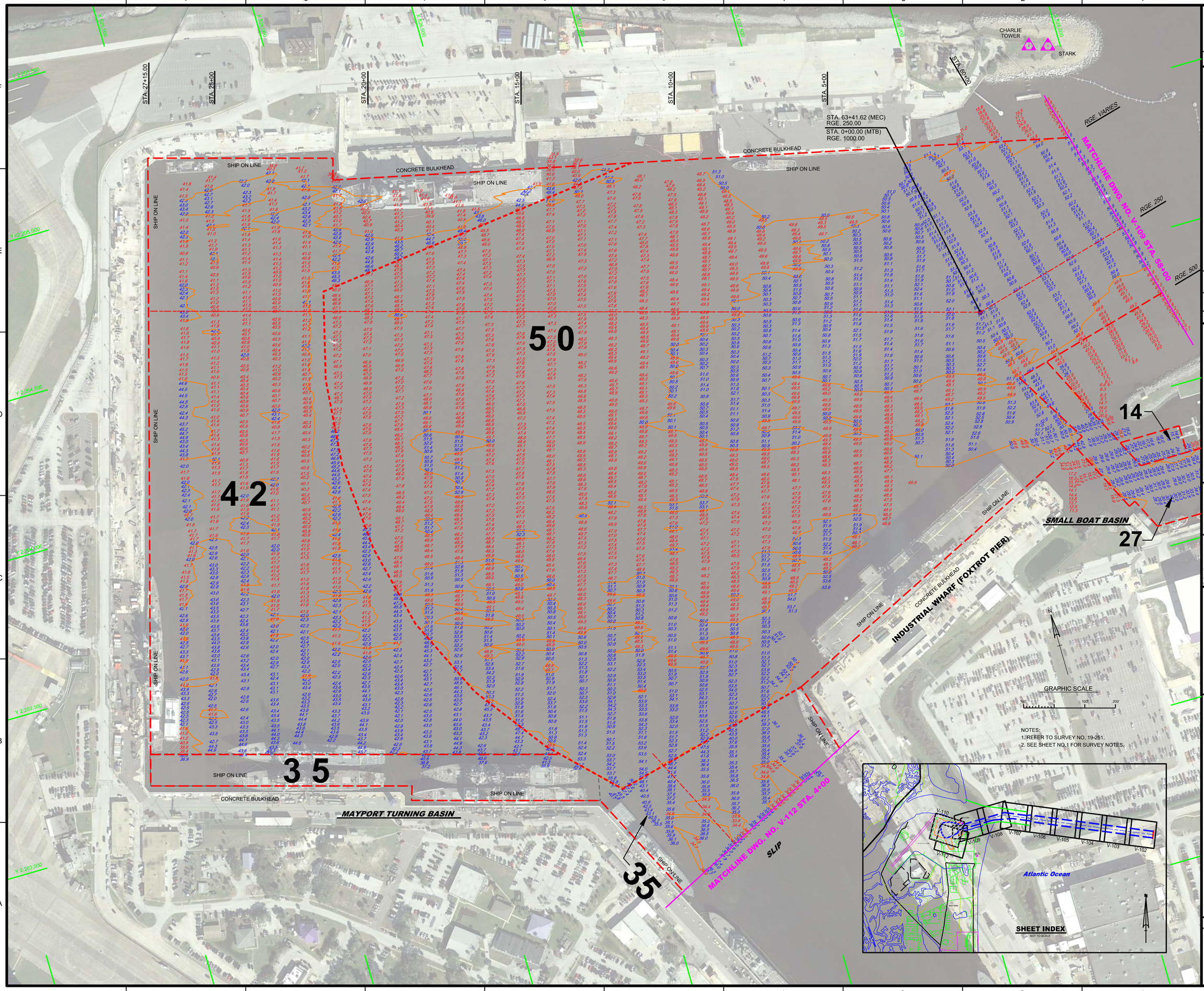
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 28+00 TO STA 58+00 ENTRANCE CHANNEL
PLAN

Scale: AS SHOWN

Drawing no.

V-109



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

Date/yr:

Designed by:

Dwn by: WRM

Rev. No.

Date: SEP 2019

19-251-V-CONR2.DGN
19-251-V-CONR3.DGN
19-251-V-CONR4.DGN
19-251-V-SOUN_TB_LF.DGN
19-251-V-SOUN_DS_LF.DGN
19-251-V-SOUN_SBB_LF.DGN
19-251-V-CON27.DGN
19-251-V-CON35.DGN
19-251-MAYPORT-VH-110.DGN

Reference files:

File name:

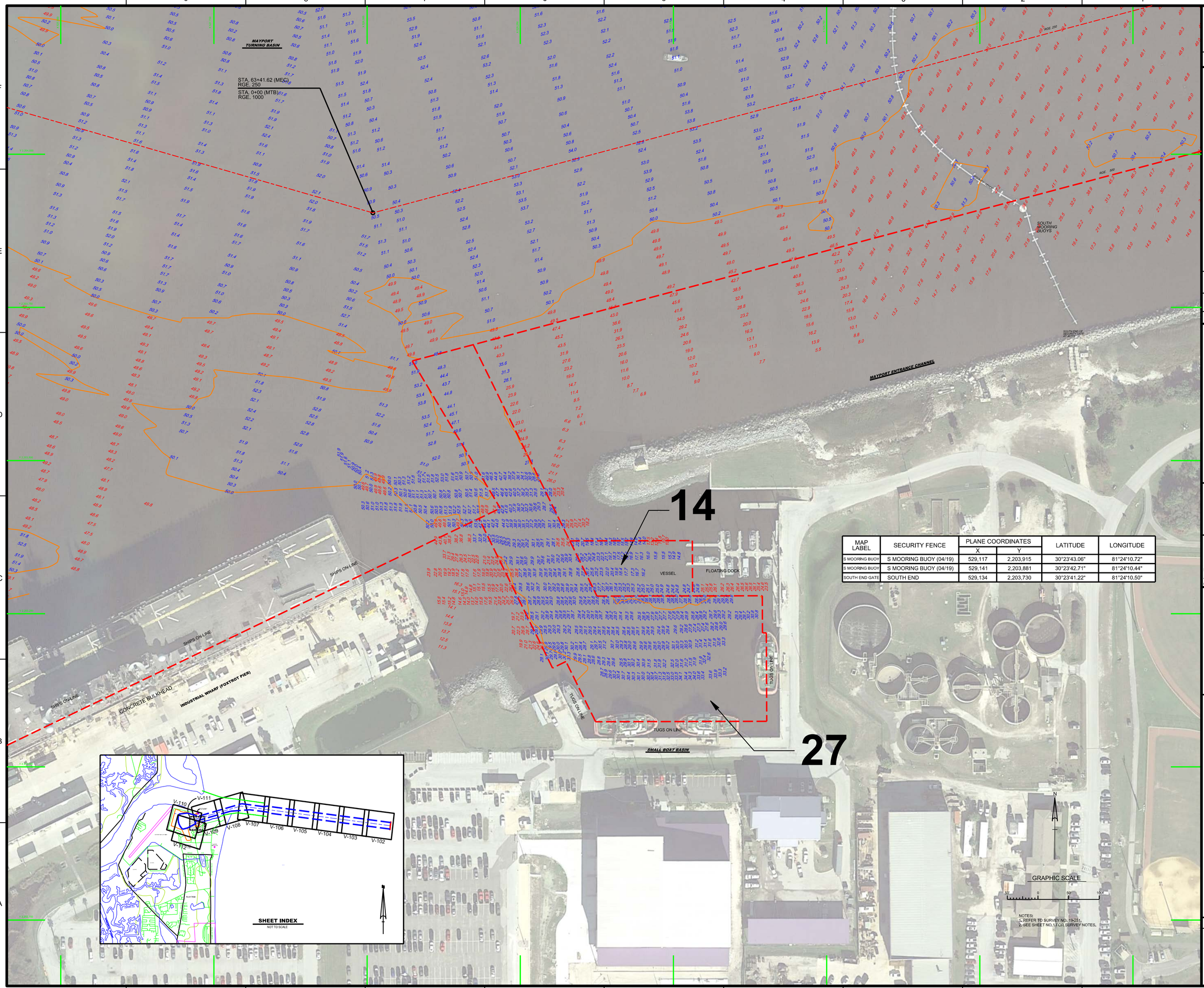
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
TURNING BASIN
PLAN

Scale: AS SHOWN

Drawing no.

V-110



MAP LABEL	SECURITY FENCE	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
S MOORING BUOY	S MOORING BUOY (04/19)	529,117	2,203,915	30°23'43.06"	81°24'10.72"
S MOORING BUOY	S MOORING BUOY (04/19)	529,141	2,203,881	30°23'42.71"	81°24'10.44"
SOUTH END GATE	SOUTH END	529,134	2,203,730	30°23'41.22"	81°24'10.50"

NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Chkd by:
DWN by: WRM
Rev. No.
Date: SEP 2019

19-251-V-NAV.DGN
19-251-C-B-SHOR.DGN
MAYPORT-B-CONT.DGN
19-251-V-SOUN_SBB_LF_50SCALE.DGN
19-251-V-SOUN_EC_LF.DGN
19-251-V-SOUN_TB_LF.DGN
19-251-V-SOUN_CF.DGN
19-251-A-CON27.DGN
19-251-A-CON60.DGN
Reference files:
19-251-MAYPORT-VH-111.DGN
File name:

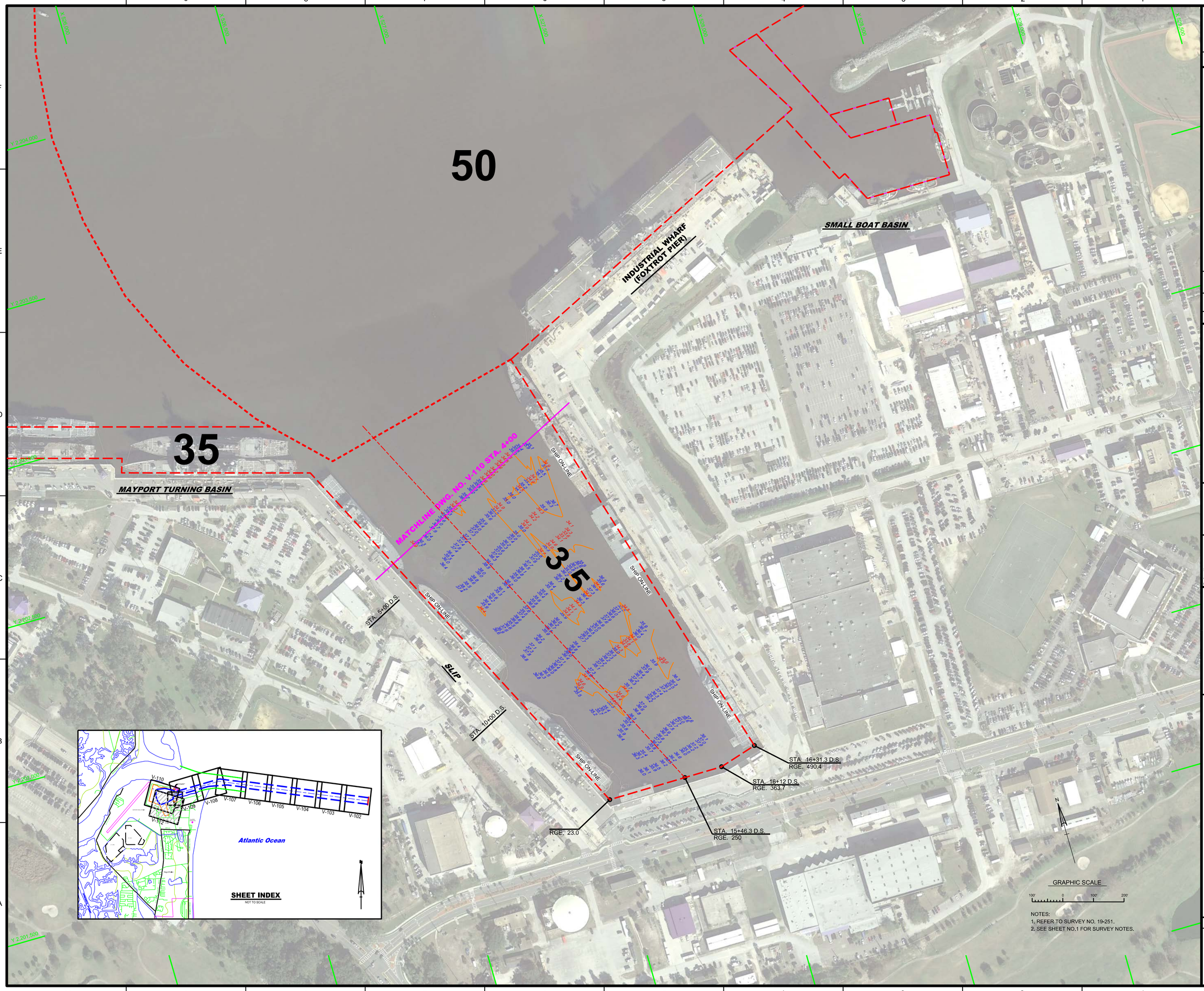
U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
SMALL BOAT BASIN
PLAN

Scale: AS SHOWN

Drawing no.

V-111



NOTES:
1. REFER TO SURVEY NO. 19-251.
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:
Drawn by: WRM
Checked by:
Rev. No.
Date: SEP 2019

Reference files:
19-251-C-SUR-BRGR.DGN
MAYPORT-SLIP-LINE.DGN
19-251-V-SOUN_DS_LF.DGN
19-251-V-CON35.DGN

File name: 19-251-MAYPORT-V-H-112.DGN

U.S. NAVAL STATION
MAYPORT, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35 , 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
DESTROYER SLIP
PLAN

Scale: AS SHOWN

Drawing no.

V-112