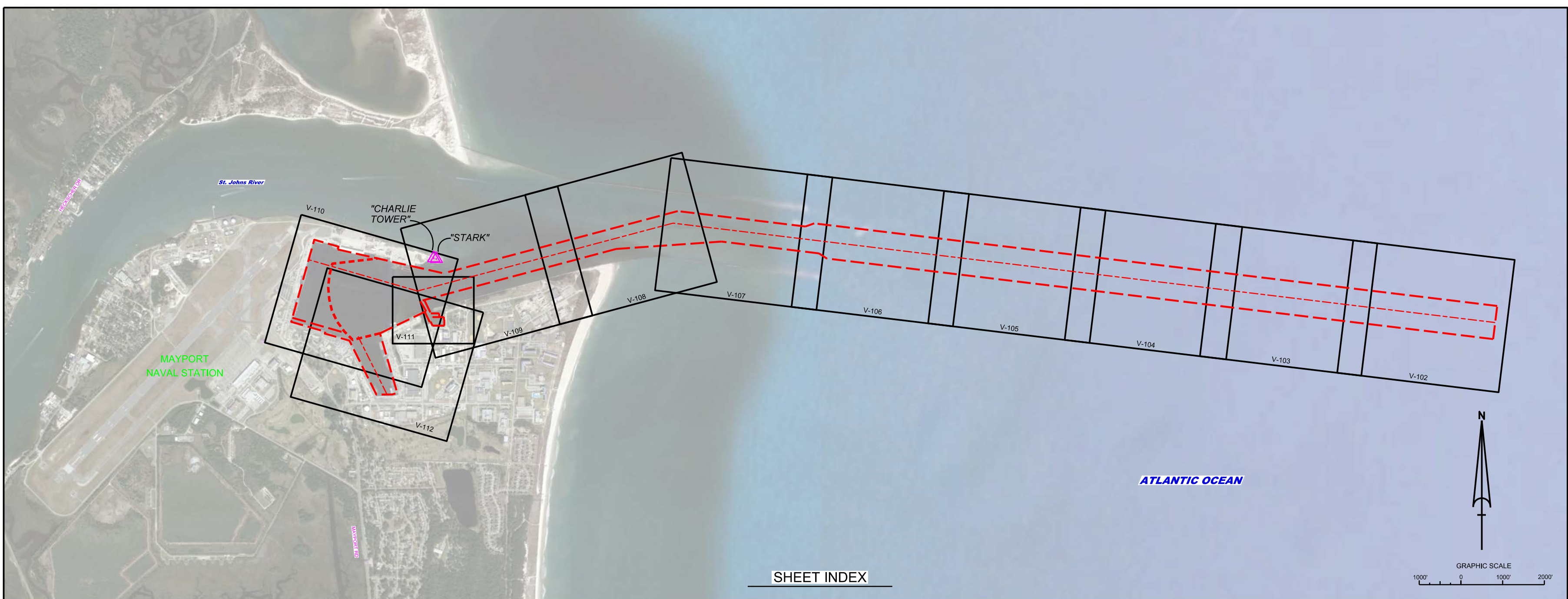


U.S. NAVAL STATION MAYPORT 1Q HYDROGRAPHIC EXAM SURVEY FY19

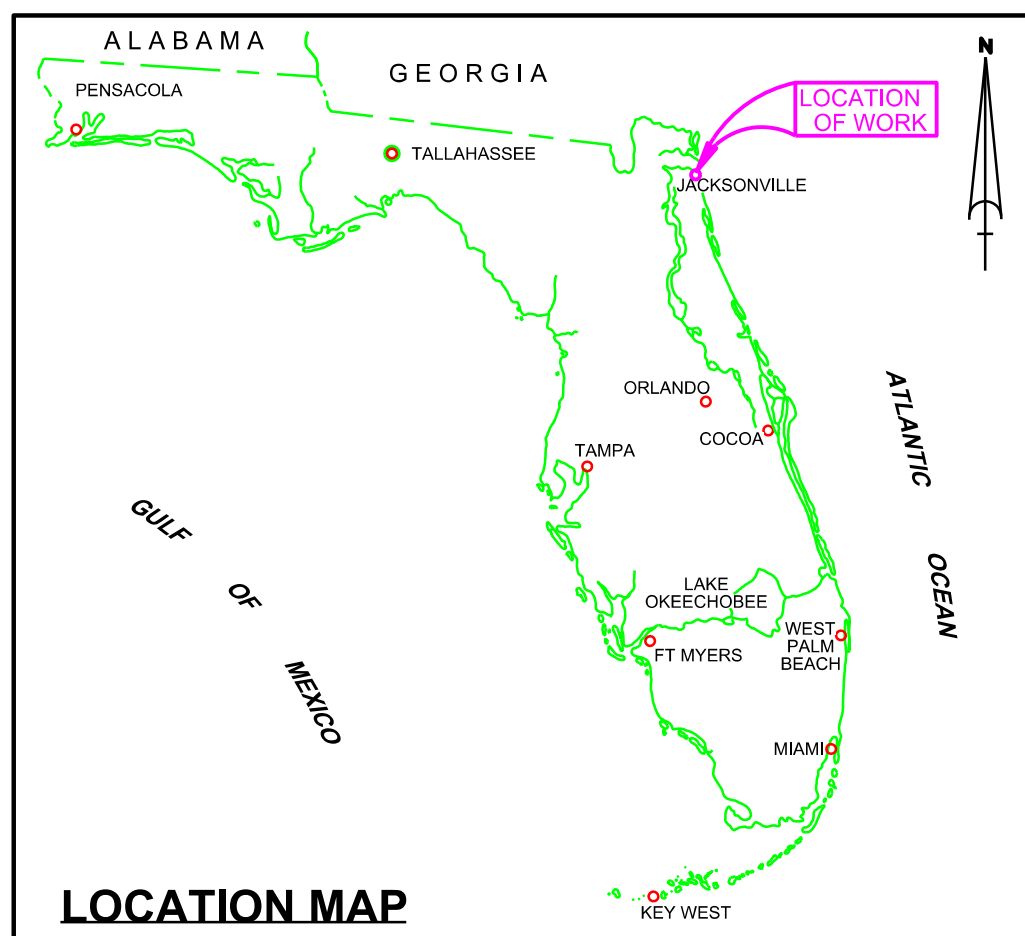


US Army Corps
of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU



SHEET INDEX



LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

SURVEY NOTES

1. REFER TO SURVEY NO. 19-072.
2. 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 HEIGHTS OF THE BENCHMARKS BELOW:

NOAA TIDAL STATION "872-0211" FOR ALL CUTS
NOAA TIDAL STATION "872-0218" FOR ALL CUTS
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPAK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "CAMDNGA-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" (PID: BBDC09)
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835B SMART-SONDER WITH A DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER AND A R2SONIC 2024 MULTI-BEAM SYSTEM. SOUNDINGS SHOWN ARE IN HIGH FREQUENCY (200KHZ) FOR STA. 0+00 THRU STA. 198+63.25 BAR CUT-3, STA. 0+00 THRU STA. 56+27.94 OF THE ENTRANCE CHANNEL AND LOW FREQUENCY (28 KHZ) FROM STA. 56+27.94 THRU STA. 63+41.42 OF THE ENTRANCE CHANNEL, TURNING BASIN, SLIP AND THE SMALL BOAT BASIN.

VESSEL	DATE OF SURVEY	CUT
SB-46	19 DEC 2018, 04, 07, 14 JAN 2019	BAR CUT-3, ENTRANCE CHL., TURNING BASIN, SLIP, SMALL BOAT BASIN
SB-46	14 JAN 2019	
9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY. NAVIDS COLLECTED DURING SURVEY 18-251 ARE ALSO SHOWN.
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.

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

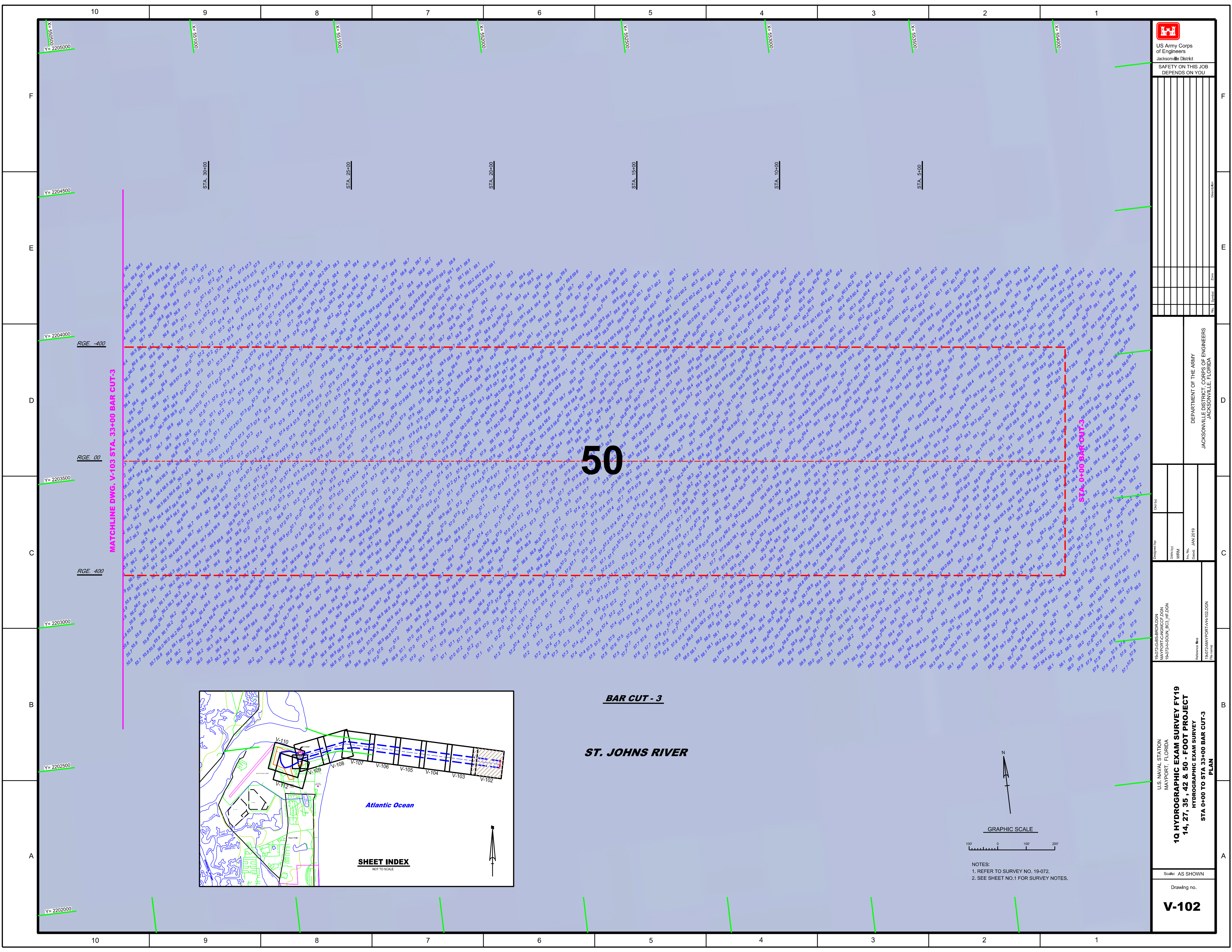
19-072-AG-BB-BRDR.DGN
MAYPORT-CH-INR.DGN
19-072-AMAYPORT-AM-181.DGN


U.S. NAVAL STATION
MAYPORT, FLORIDA
**1Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35, 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY**

Scale: AS SHOWN

Drawing no.

VH-101



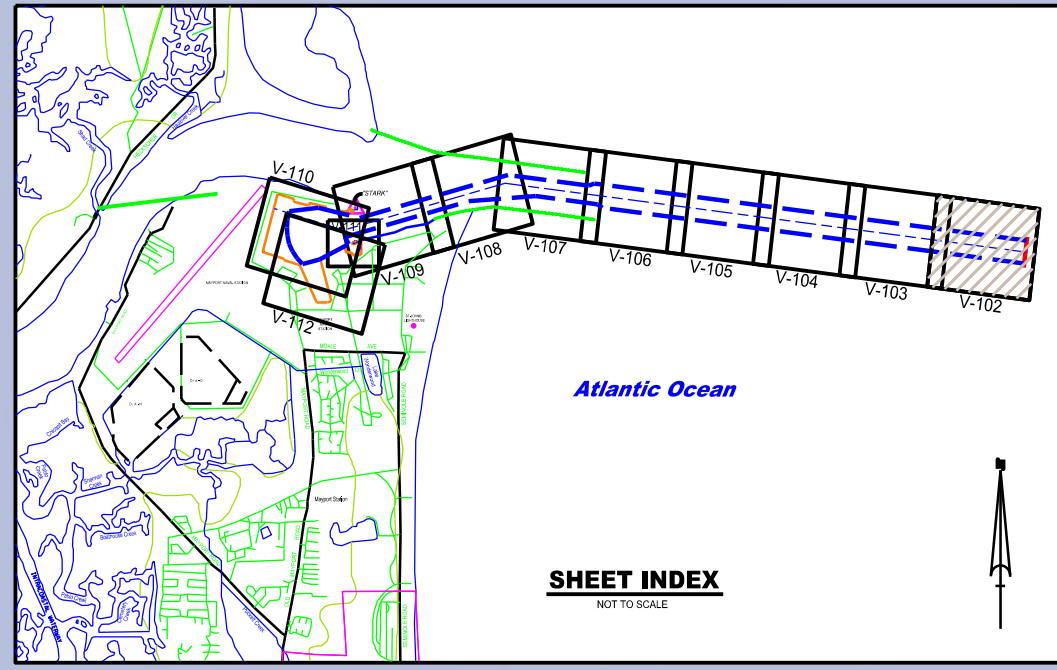


 US Army Corps of Engineers
 Jacksonville District
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 DEPENDS ON YOU

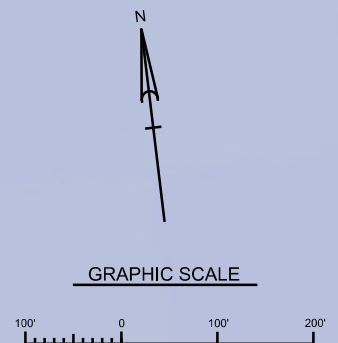
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

U.S. NAVAL STATION
 MAYPORT, FLORIDA
 19-072-AMPORT-AH-022-00N
 19-072-AMPORT-AH-022-00N
 19-072-AMPORT-AH-022-00N
 19-072-AMPORT-AH-022-00N

1Q 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



BAR CUT - 3
ST. JOHNS RIVER



- NOTES:
 1. REFER TO SURVEY NO. 19-072.
 2. SEE SHEET NO.1 FOR SURVEY NOTES.



US Army Corps of Engineers
Jacksonville District

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No.	Symbol	Zone

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

Designed by:
19-072-AS-BROLDEN
19-072-AC-CONRADSON

Checked by:
WRM

Date:
JAN 2019

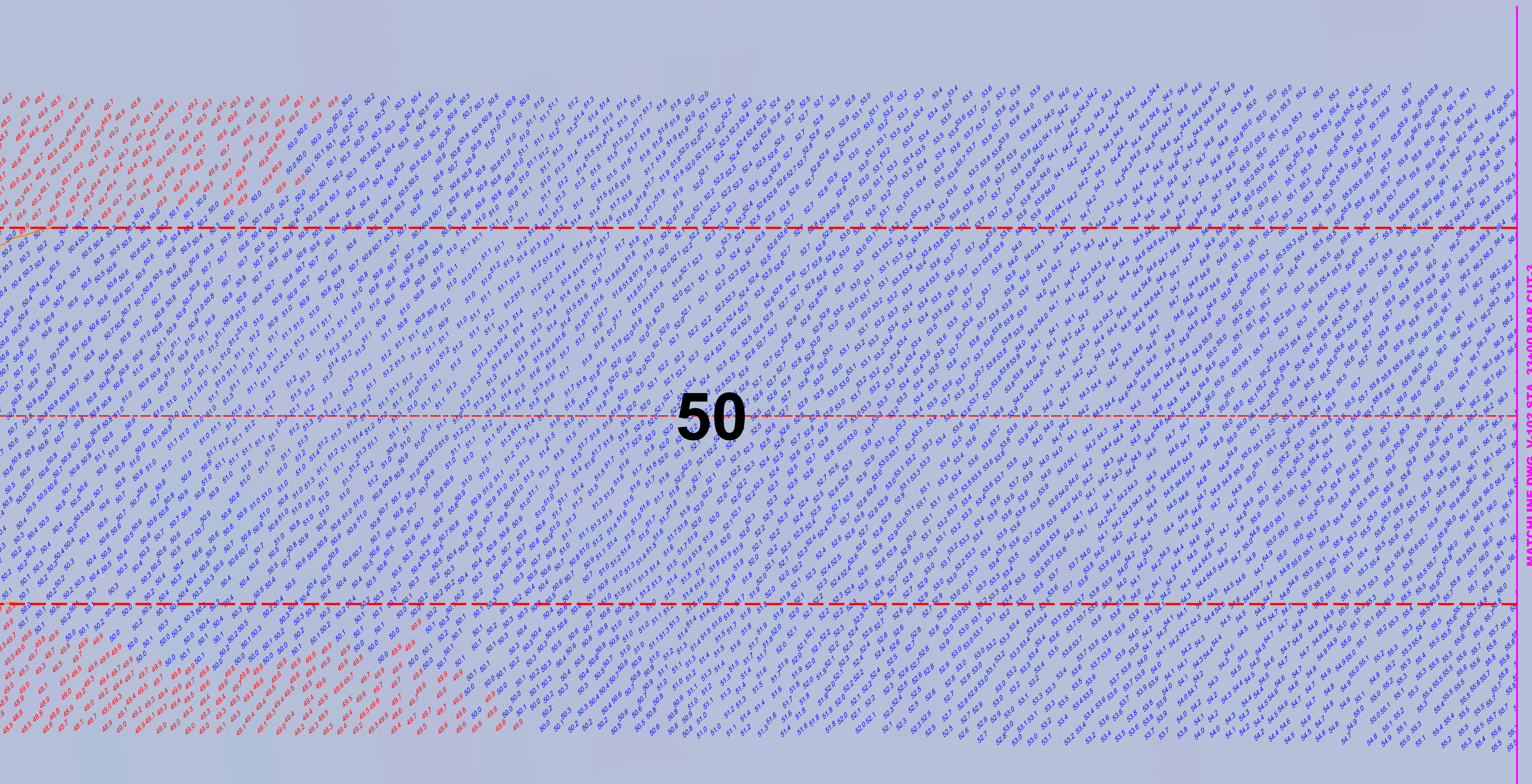
Reference files:
19-072-AMV-PORT-V-H-03-03-DN
19-072-AMV-PORT-V-H-03-03-DN

U.S. NAVAL STATION
MAYPORT, FLORIDA

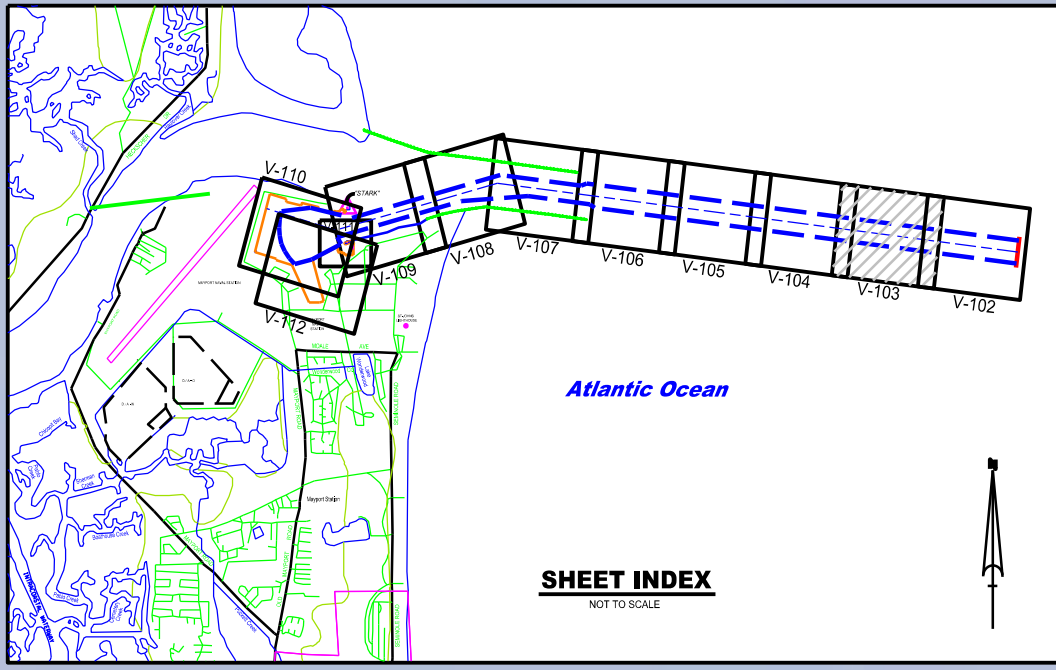
1Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35, 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 33+00 TO STA 66+00 BAR CUT-3

Scale: AS SHOWN

Drawing no.
V-103

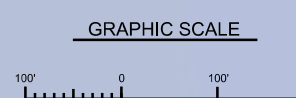


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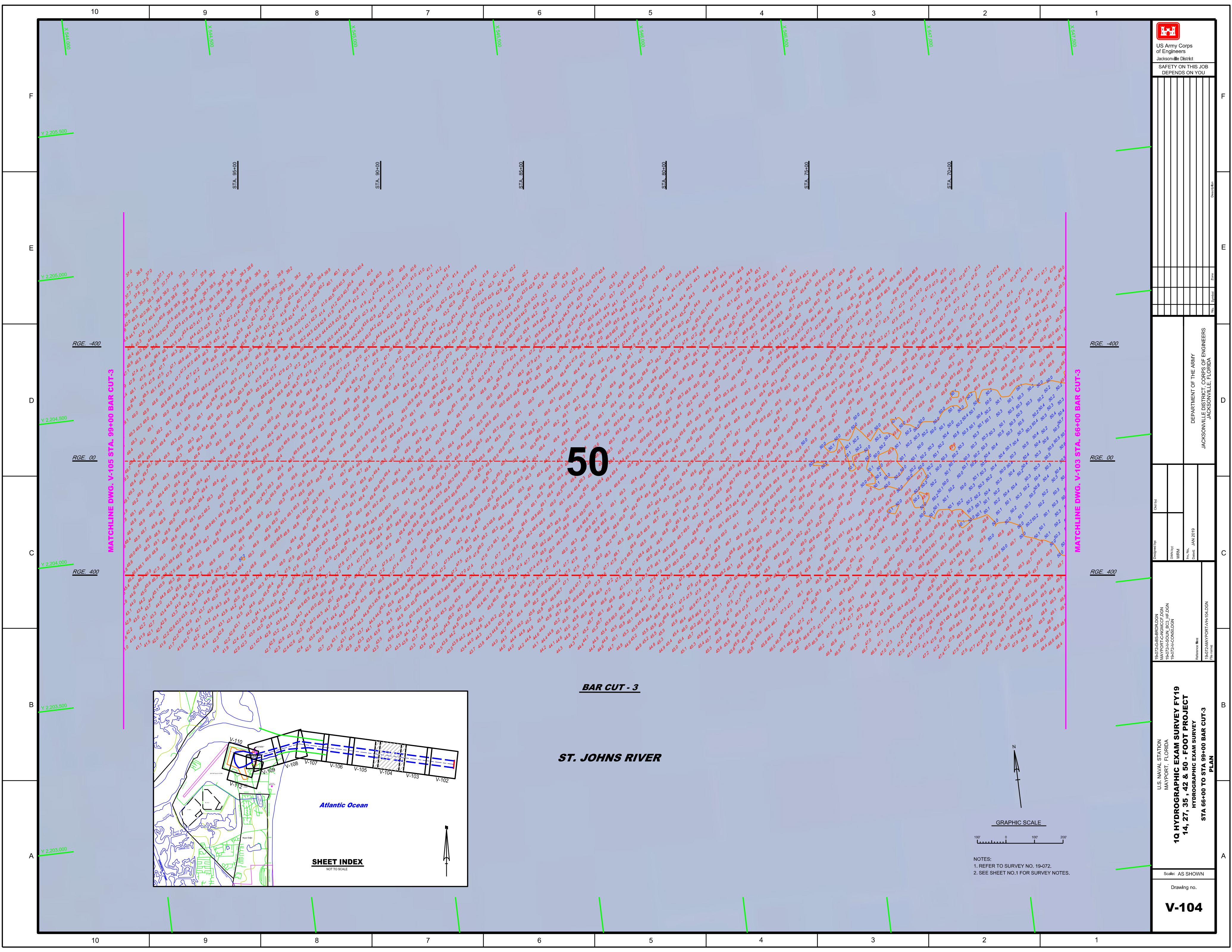


BAR CUT - 3

ST. JOHNS RIVER



- NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.



US Army Corps of Engineers
Jacksonville District
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Designed by:
19-072-AS-BROLDEN
19-072-AC-CON/LOGN
Checked by:
19-072-AM-PORTVAH-DALON
Date: JAN 2019

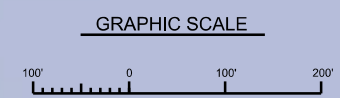
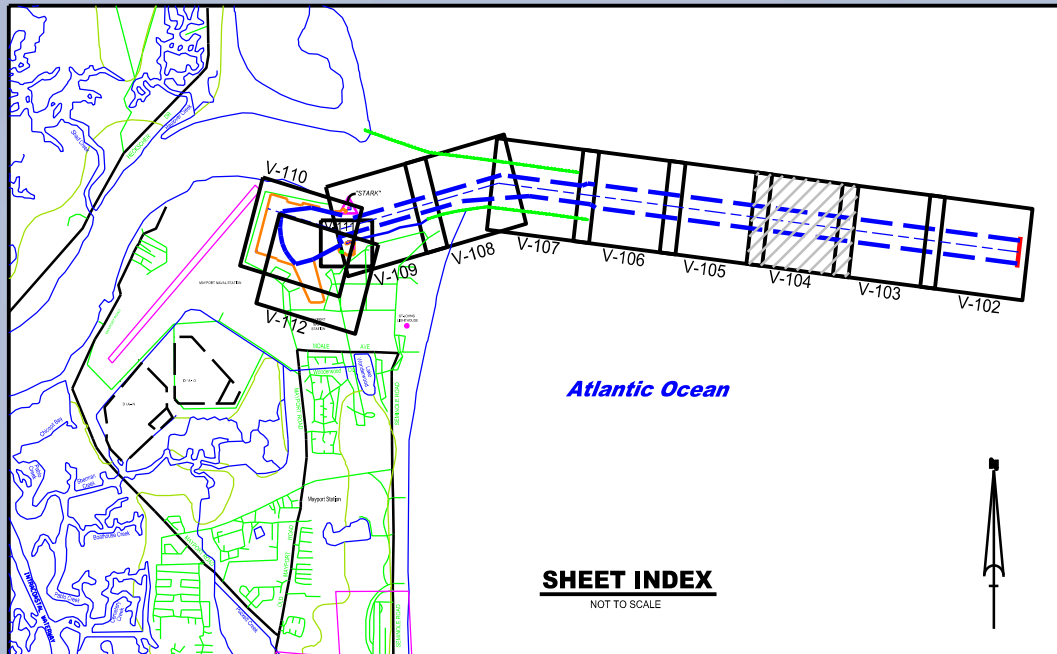
U.S. NAVAL STATION
MAYPORT, FLORIDA
1Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35, 42 & 50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 66+00 TO STA 99+00 BAR CUT-3
PLAN

Scale: AS SHOWN
Drawing no.
V-104

50

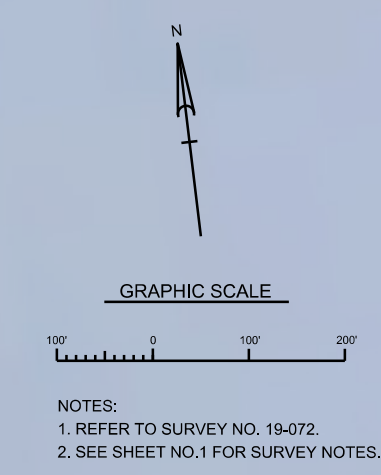
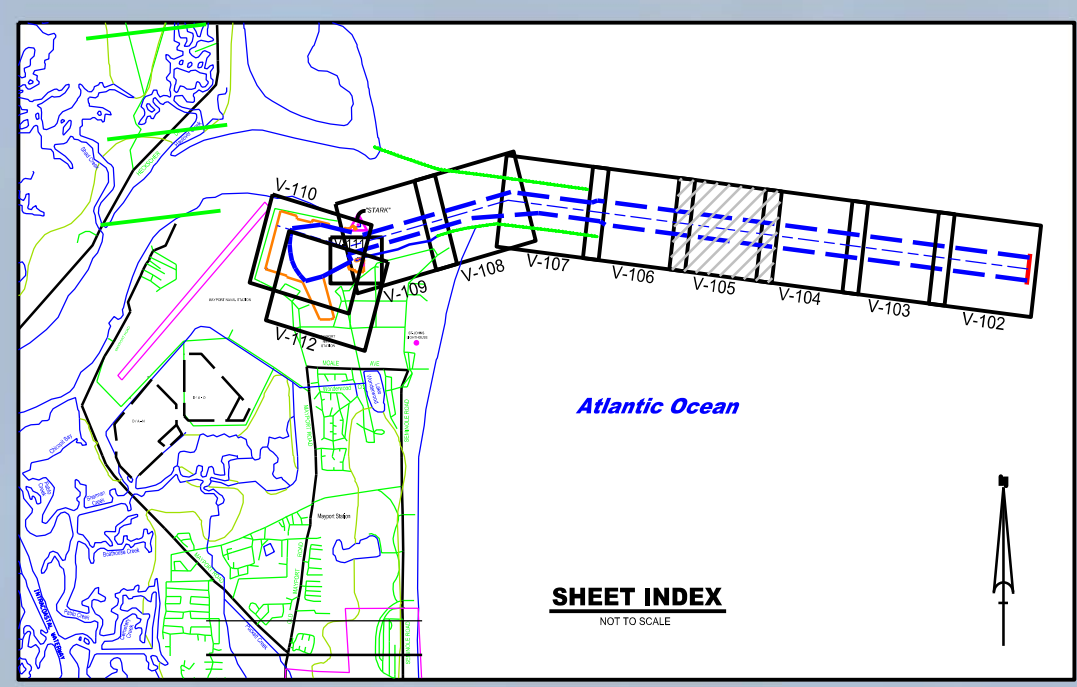
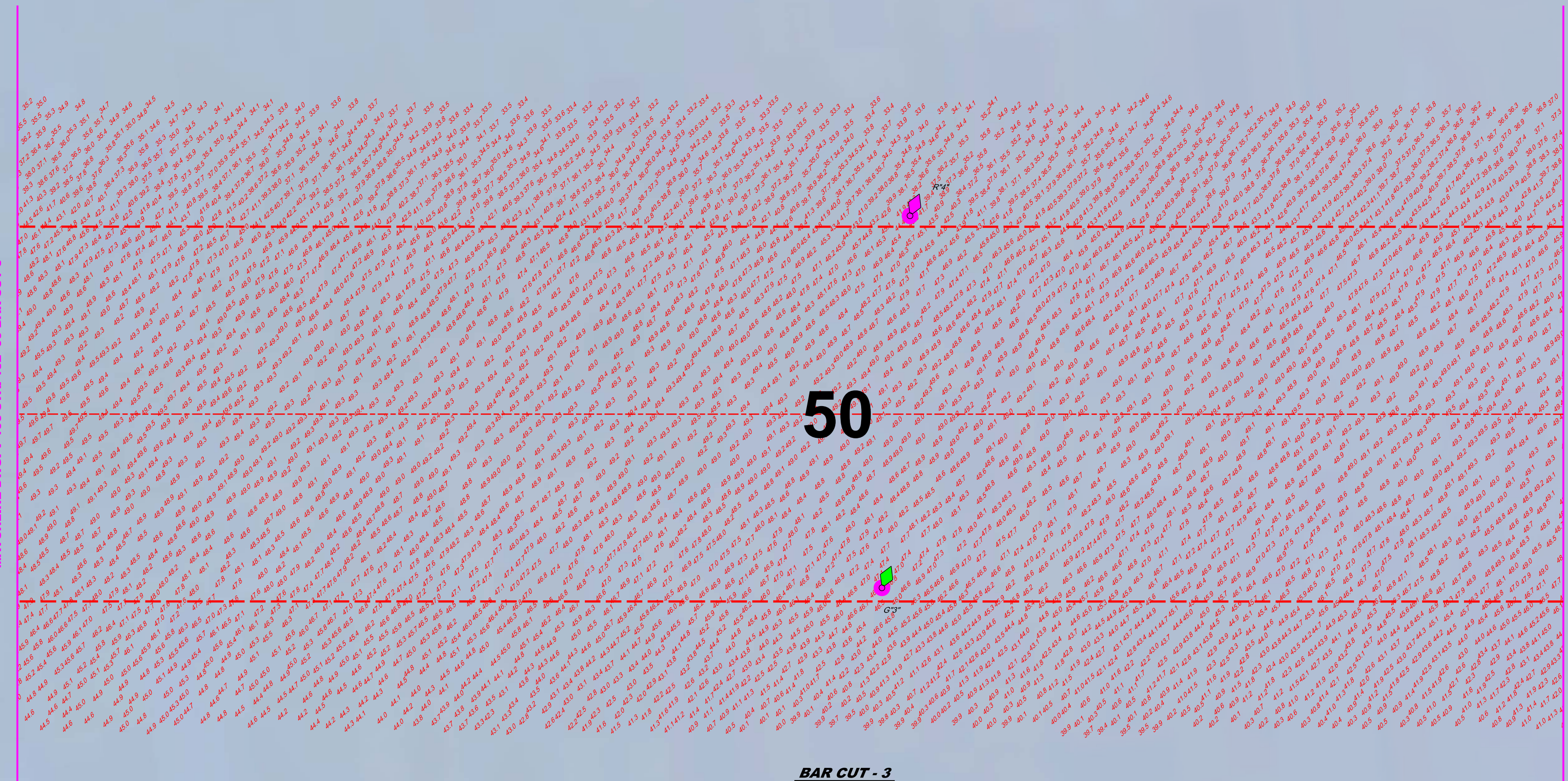
BAR CUT - 3

ST. JOHNS RIVER



NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (09/18)	542,541	2,204,144	30°23'45.77"	81°21'37.44"
LT. BUOY-4 (09/18)	542,696	2,204,925	30°23'53.51"	81°21'35.70"



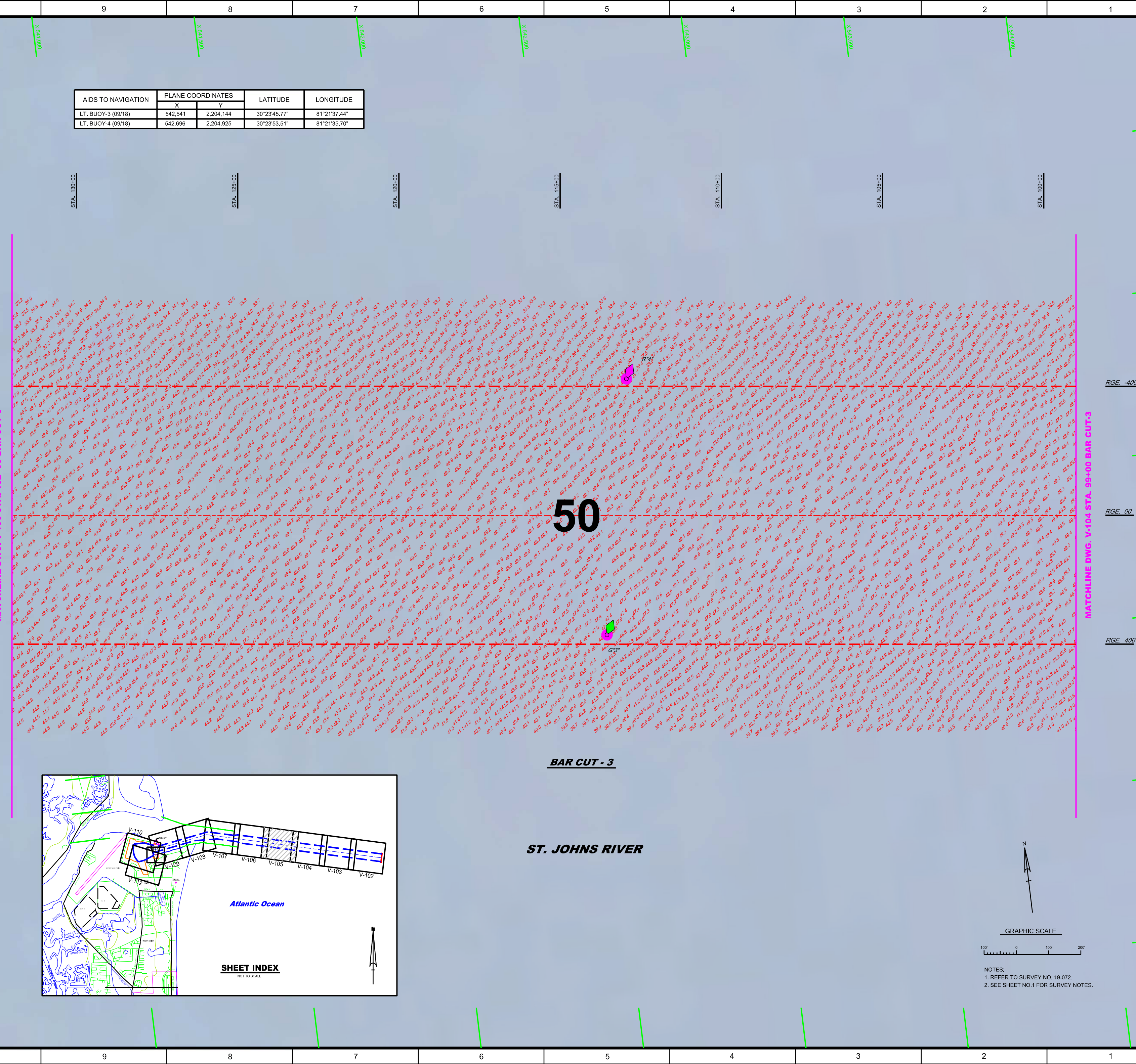
ST. JOHNS RIVER

BAR CUT - 3

50

MATCHLINE DWG. V-106 STA. 132+00 BAR CUT-3

MATCHLINE DWG. V-104 STA. 99+00 BAR CUT-3



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (08/18)	538,403	2,204,193	30°23'46.12"	81°22'24.69"
LT. BUOY-9 (09/18)	538,529	2,205,628	30°24'00.33"	81°22'23.31"

STA. 160+00

STA. 155+00

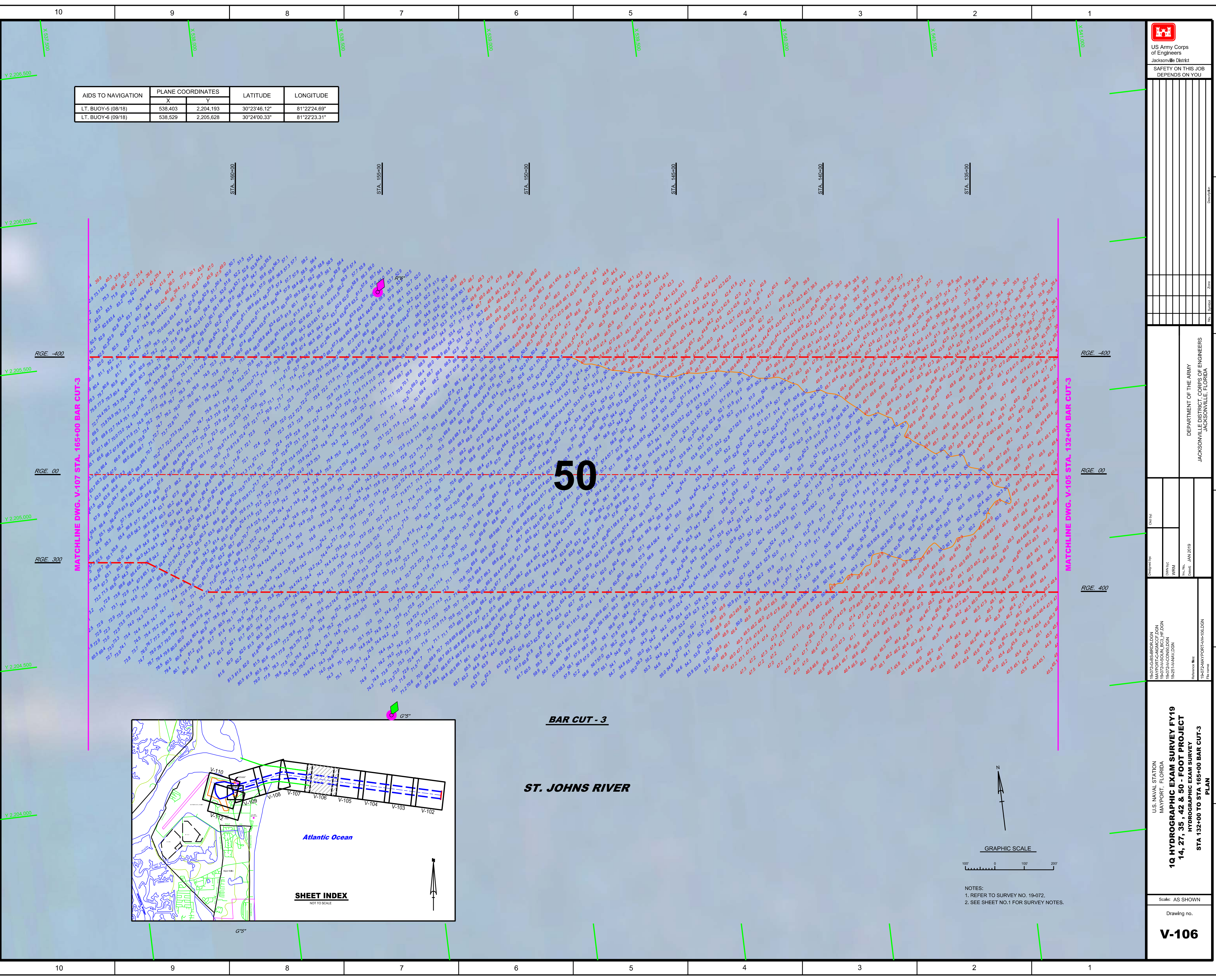
STA. 150+00

STA. 145+00

STA. 135+00

MATCHLINE DWG. V-107 STA. 165+00 BAR CUT-3

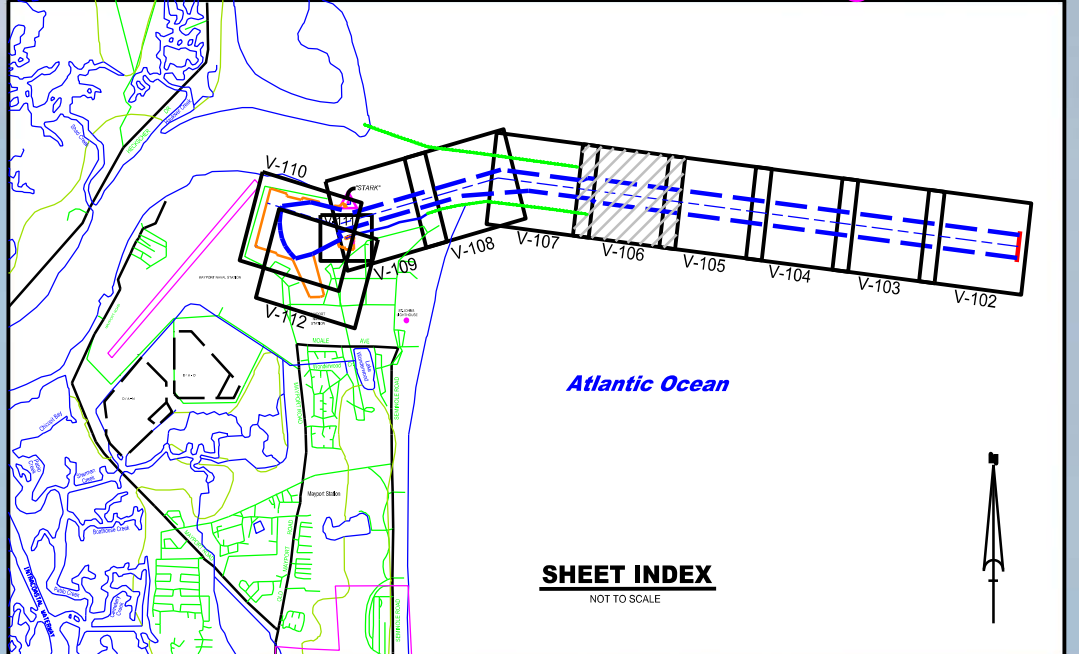
MATCHLINE DWG. V-105 STA. 132+00 BAR CUT-3



BAR CUT - 3

ST. JOHNS RIVER

SHEET INDEX
NOT TO SCALE



NOTES:
 1. REFER TO SURVEY NO. 19-072.
 2. SEE SHEET NO.1 FOR SURVEY NOTES.

U.S. NAVAL STATION MAYPORT, FLORIDA 19-072-AS-BIRDSON 19-072-AS-ENGINEERING 19-072-AS-CONSTRUCTION 19-072-AS-NAVIGATION	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS JACKSONVILLE, FLORIDA
U.S. NAVY STATION MAYPORT, FLORIDA 19-072-AS-BIRDSON 19-072-AS-ENGINEERING 19-072-AS-CONSTRUCTION 19-072-AS-NAVIGATION	U.S. NAVAL STATION MAYPORT, FLORIDA 19-072-AS-BIRDSON 19-072-AS-ENGINEERING 19-072-AS-CONSTRUCTION 19-072-AS-NAVIGATION
U.S. NAVAL STATION MAYPORT, FLORIDA 19-072-AS-BIRDSON 19-072-AS-ENGINEERING 19-072-AS-CONSTRUCTION 19-072-AS-NAVIGATION	U.S. NAVAL STATION MAYPORT, FLORIDA 19-072-AS-BIRDSON 19-072-AS-ENGINEERING 19-072-AS-CONSTRUCTION 19-072-AS-NAVIGATION

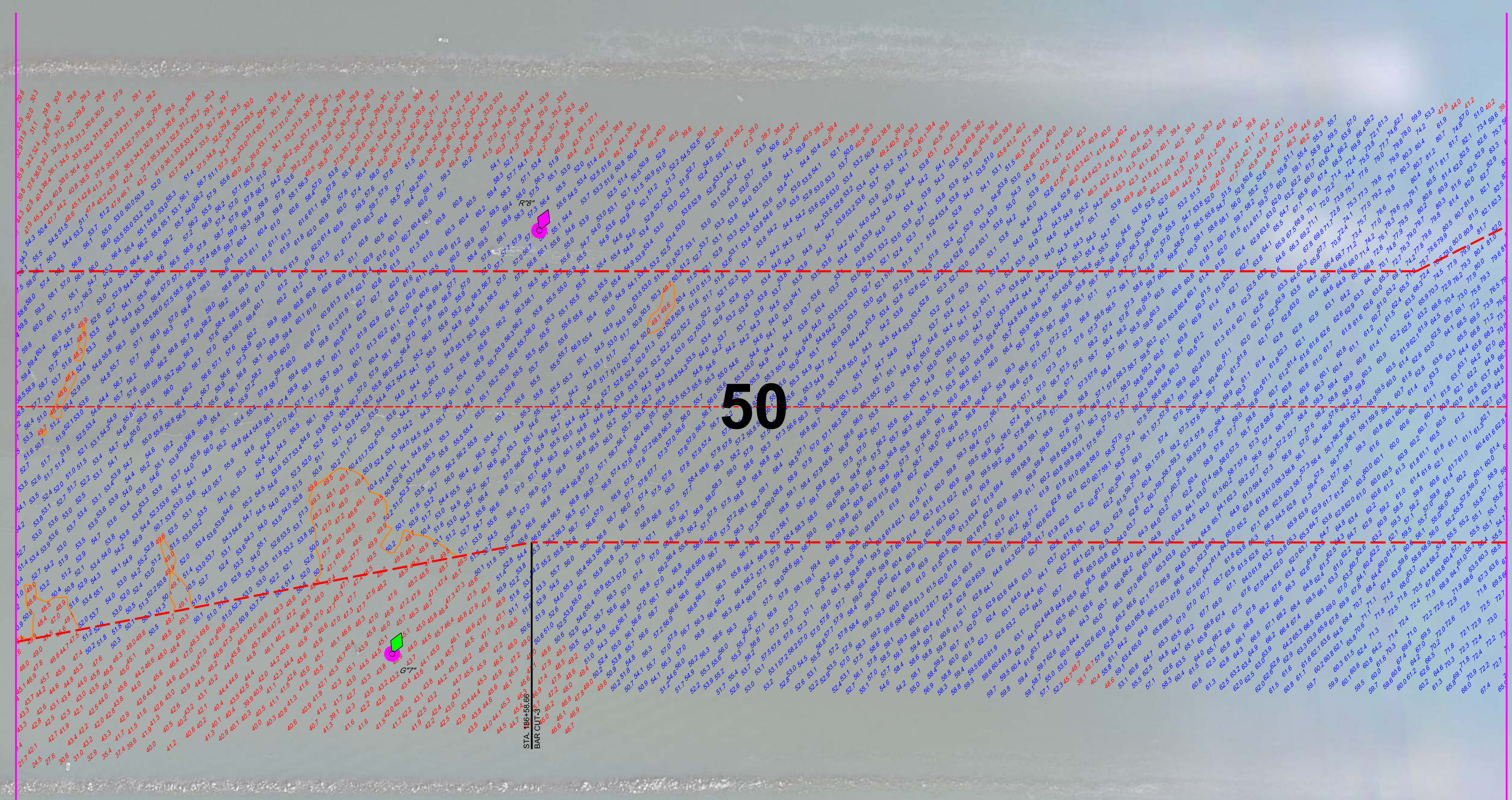
1Q HYDROGRAPHIC EXAM SURVEY FY19
14, 27, 35, 42 & 50 - FOOT PROJECT
 HYDROGRAPHIC EXAM SURVEY
STA 132+00 TO STA 165+00 BAR CUT-3
 PLAN

Scale: AS SHOWN
 Drawing no.
V-106

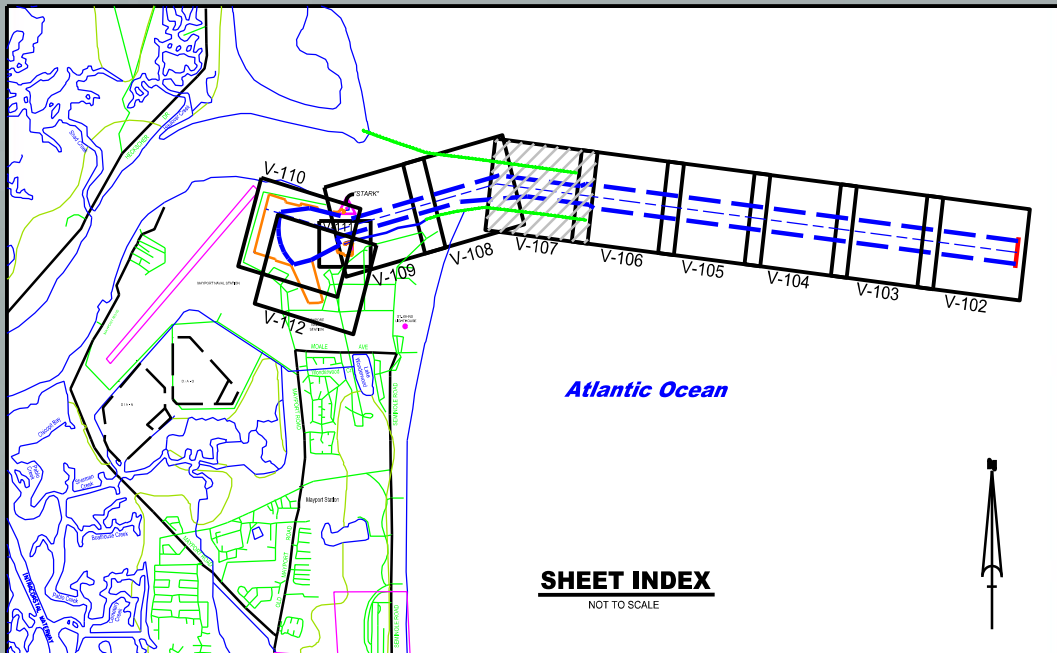
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (12/18)	534,963	2,204,883	30°23'52.84"	81°23'04.01"
LT. BUOY-6 (09/18)	535,398	2,205,774	30°24'01.67"	81°22'59.07"



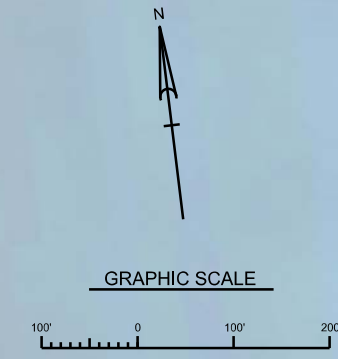
US Army Corps of Engineers
Jacksonville District
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50



BAR CUT - 3
ST. JOHNS RIVER



NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

U.S. NAVAL STATION
MAYPORT, FLORIDA

**1Q 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

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

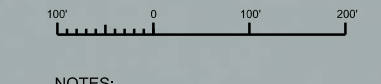
Designed by: 19-072-AS-BIRDSON
Checked by: 19-072-AS-NGRICE/DGN
Drawn by: 19-072-AS-SOUL/EC, JIF/DGN
Reviewed by: 19-072-AS-NAV/DGN
19-072-AS-COUL/DGN
Date: JAN 2019

Blank grid for project information and revision control.

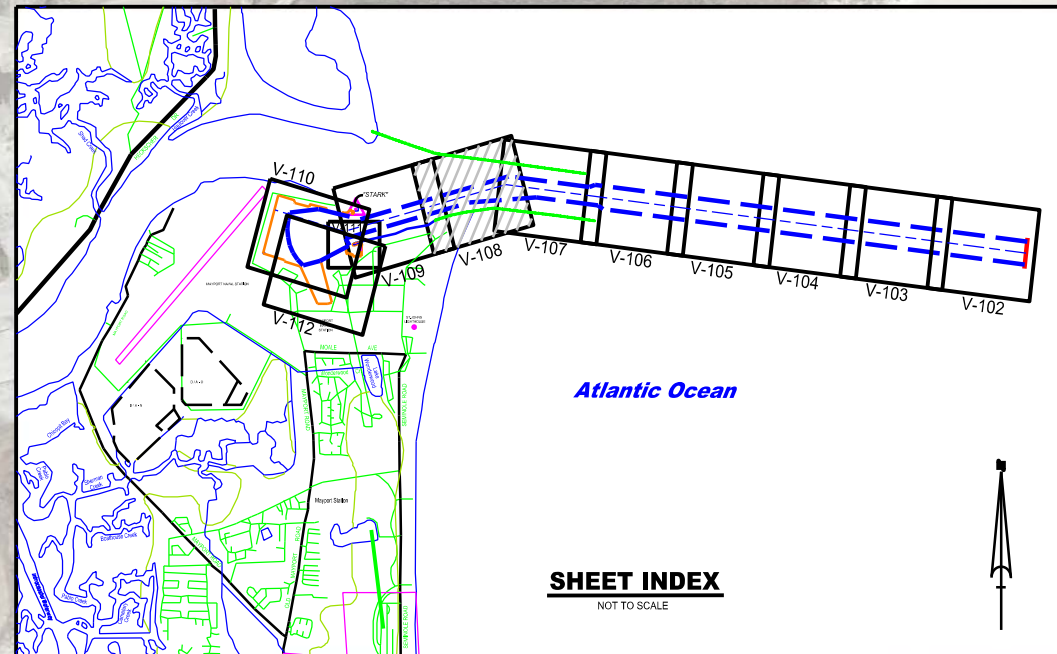
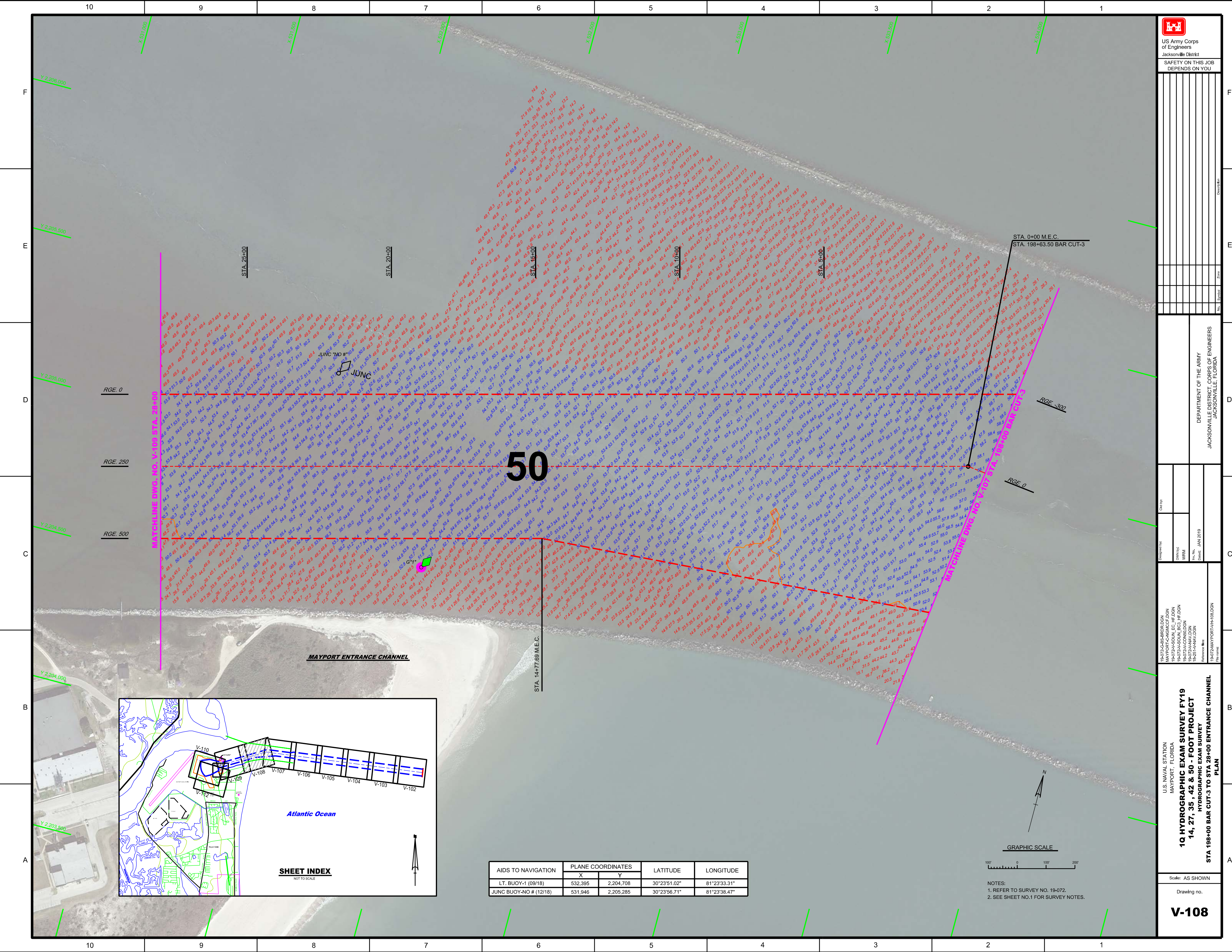
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

U.S. NAVAL STATION
MAYPORT, FLORIDA
1Q 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

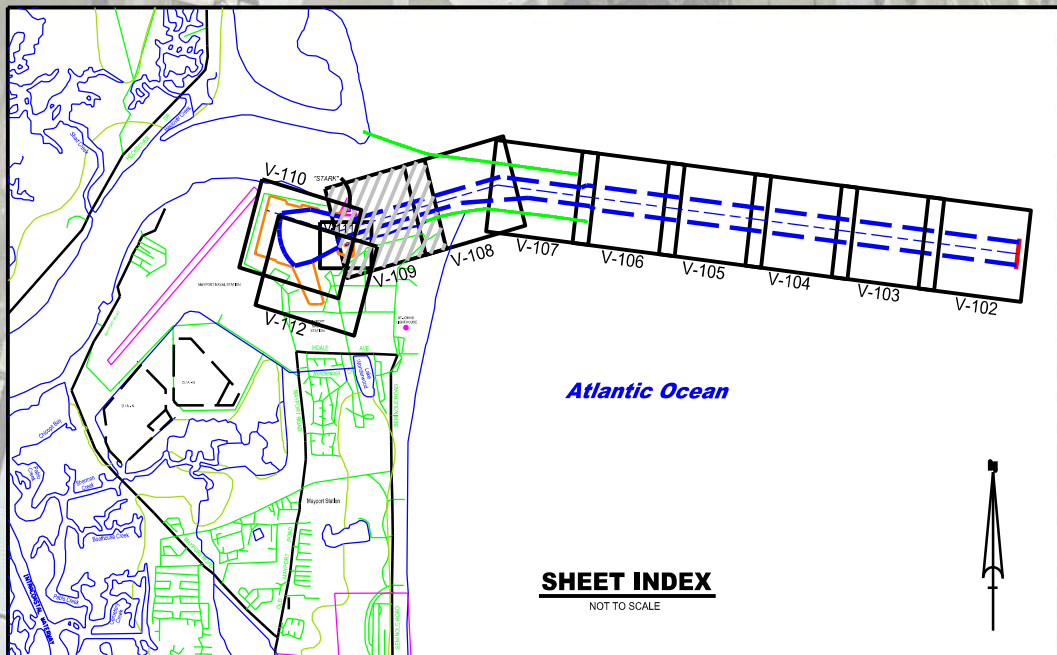
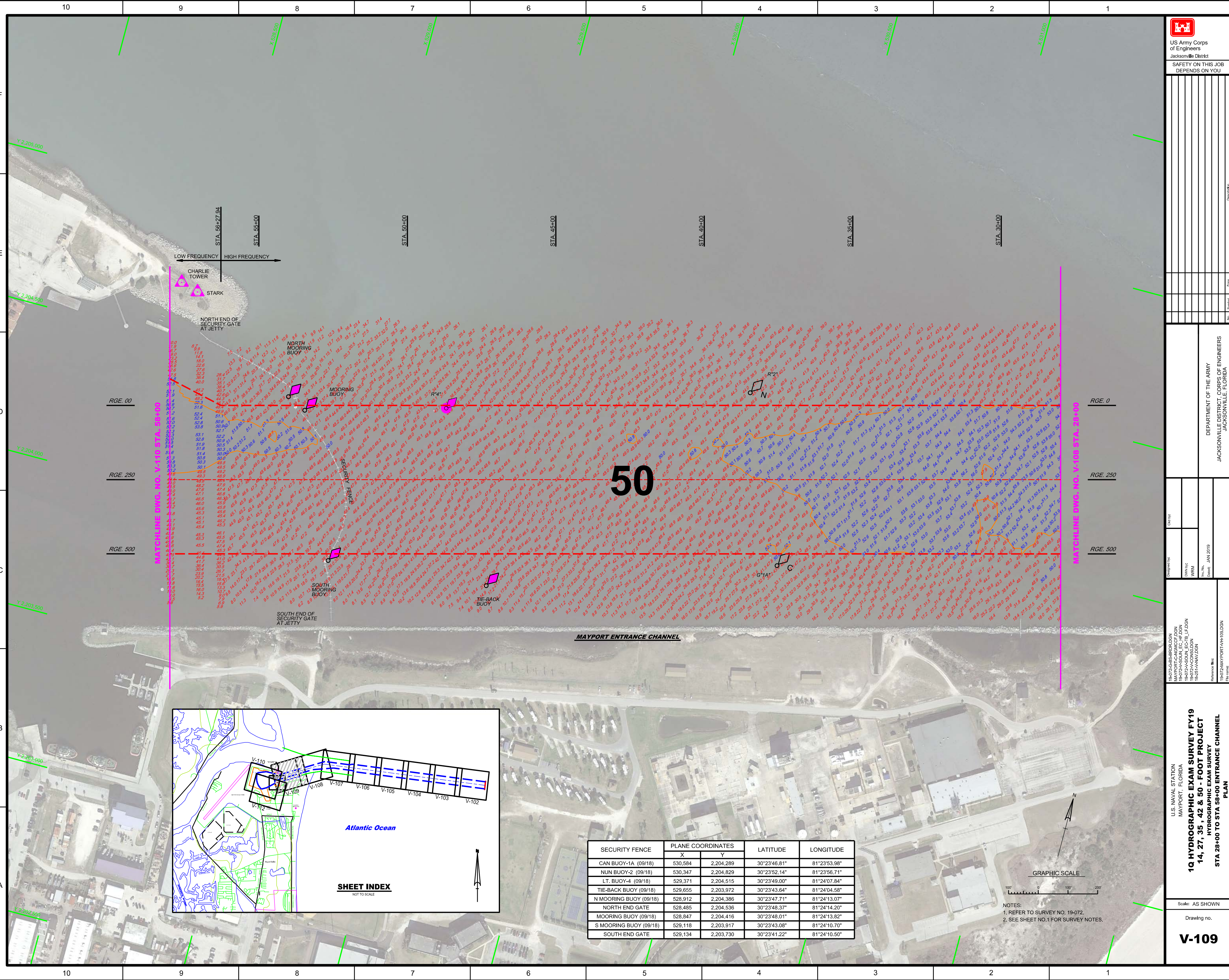
Scale: AS SHOWN
Drawing no.
V-108



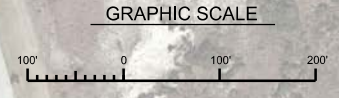
- NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1 (09/18)	532,395	2,204,708	30°23'51.02"	81°23'33.31"
JUNC BUOY-NO # (12/18)	531,946	2,205,285	30°23'56.71"	81°23'38.47"



SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-1A (09/18)	530,584	2,204,289	30°23'46.81"	81°23'53.98"
NUN BUOY-2 (09/18)	530,347	2,204,829	30°23'52.14"	81°23'56.71"
LT. BUOY-4 (09/18)	529,371	2,204,515	30°23'49.00"	81°24'07.84"
TIE-BACK BUOY (09/18)	529,655	2,203,972	30°23'43.64"	81°24'04.58"
N MOORING BUOY (09/18)	528,912	2,204,386	30°23'47.71"	81°24'13.07"
NORTH END GATE	528,485	2,204,536	30°23'48.37"	81°24'14.20"
MOORING BUOY (09/18)	528,847	2,204,416	30°23'48.01"	81°24'13.82"
S MOORING BUOY (09/18)	529,118	2,203,917	30°23'43.08"	81°24'10.70"
SOUTH END GATE	529,134	2,203,730	30°23'41.22"	81°24'10.50"



NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

U.S. NAVAL STATION
MAYPORT, FLORIDA

**1Q 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

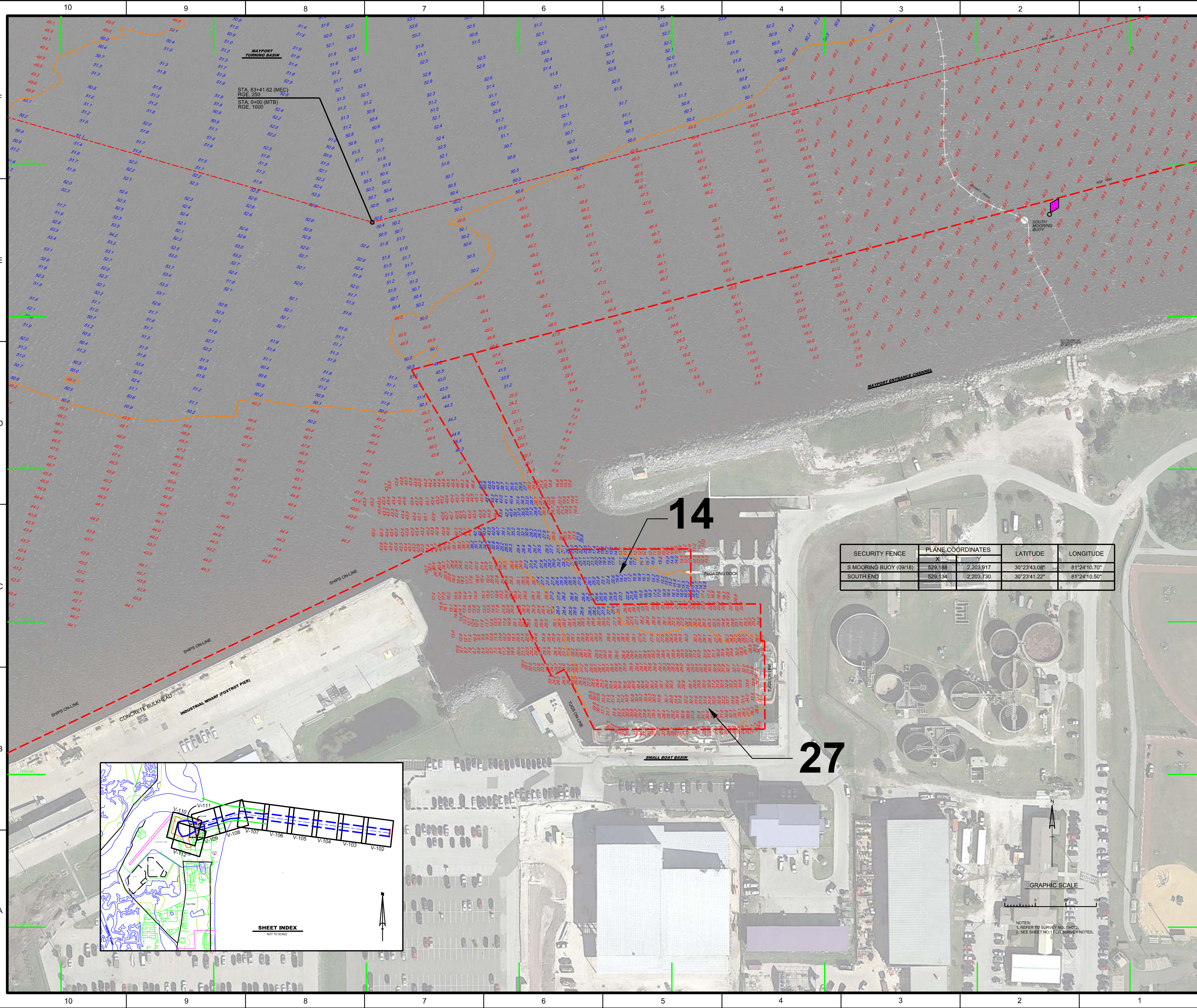
Drawing no.
V-109

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

Designed by:
Checked by:
Drawn by:
Reviewed by:
Date:
Title:

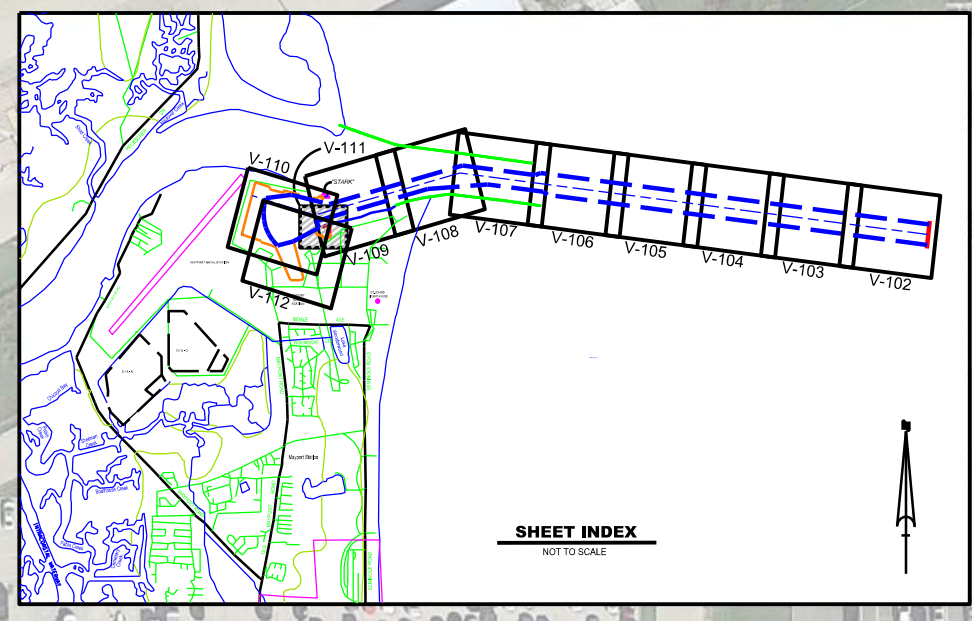
19-072-08-BIRDSON
MAYPORT-ENGINEERING
19-072-A-SOON ECTB LEJDN
19-072-A-COONSDGN
19-072-A-JAVJDN

Reference files:
19-072MAYPORTVH108LDN
File name:



STA. 63+41.62 (MEC)
RGE. 250
STA. 0+00 (MTB)
RGE. 1000

SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
S MOORING BUOY (09/18)	529,188	2,203,917	30°23'43.08"	81°24'10.70"
SOUTH END	529,134	2,203,730	30°23'41.22"	81°24'10.50"

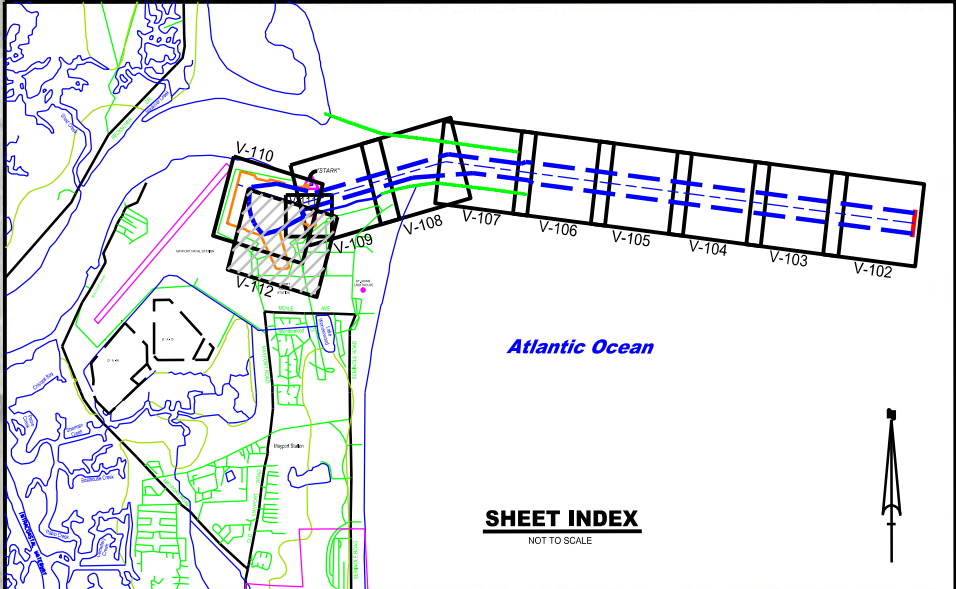
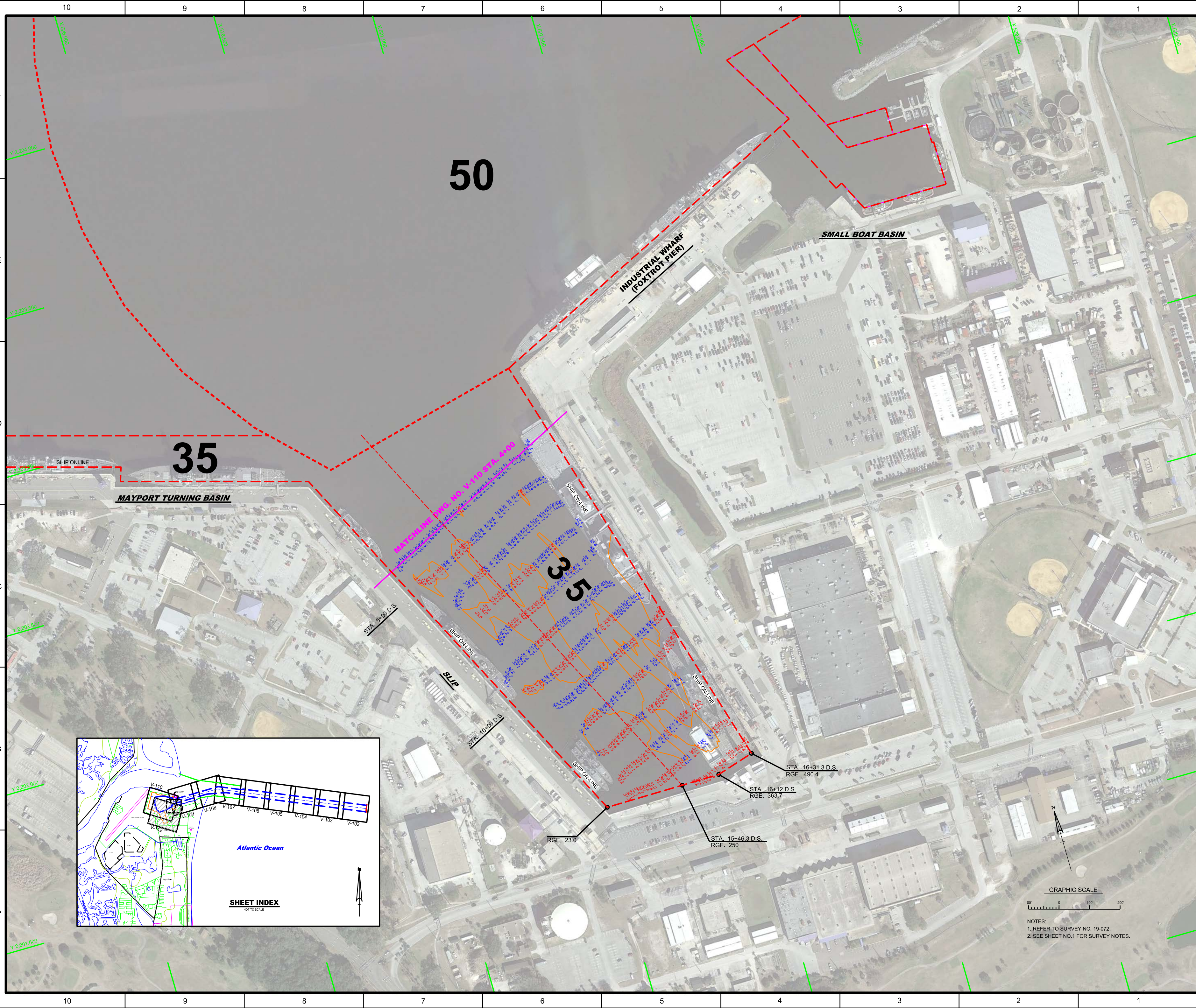


SHEET INDEX
NOT TO SCALE

GRAPHIC SCALE

NOTES:
1. REFER TO SURVEY NO. 19072.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

<p>19072-GS-BIRDSON MAYPORT-ENGINEER/DGN 19072A-SOUN_EC_HF/DGN 19072A-SOUN_EC_HF/DGN 19072A-SOUN_EC_HF/DGN 19072A-SOUN_EC_HF/DGN 19072A-SOUN_EC_HF/DGN</p>	<p>Checked By: Designed By: Drawn By: Reviewed By: Date: JAN 2019</p>	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>
<p>U.S. NAVAL STATION MAYPORT, FLORIDA</p>		
<p>1Q HYDROGRAPHIC EXAM SURVEY FY19 14, 27, 35, 42 & 50 - FOOT PROJECT HYDROGRAPHIC EXAM SURVEY SMALL BOAT BASIN PLAN</p>		
<p>Scale: AS SHOWN</p>		
<p>Drawing no. V-111</p>		



<p>US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU</p>	
<p>19-0724-BS-BRDLDGN MAYPORT-HIGHWAY-CON 19-0724-CON-03N</p>	<p>19-0724-BS-BRDLDGN MAYPORT-HIGHWAY-CON 19-0724-CON-03N</p>
<p>U.S. NAVAL STATION MAYPORT, FLORIDA</p>	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>
<p>1Q HYDROGRAPHIC EXAM SURVEY FY19 14, 27, 35, 42 & 50 - FOOT PROJECT HYDROGRAPHIC EXAM SURVEY DESTROYER SLIP PLAN</p>	<p>Scale: AS SHOWN Drawing no. V-112</p>

GRAPHIC SCALE
0 100 200
NOTES:
1. REFER TO SURVEY NO. 19-072.
2. SEE SHEET NO.1 FOR SURVEY NOTES.