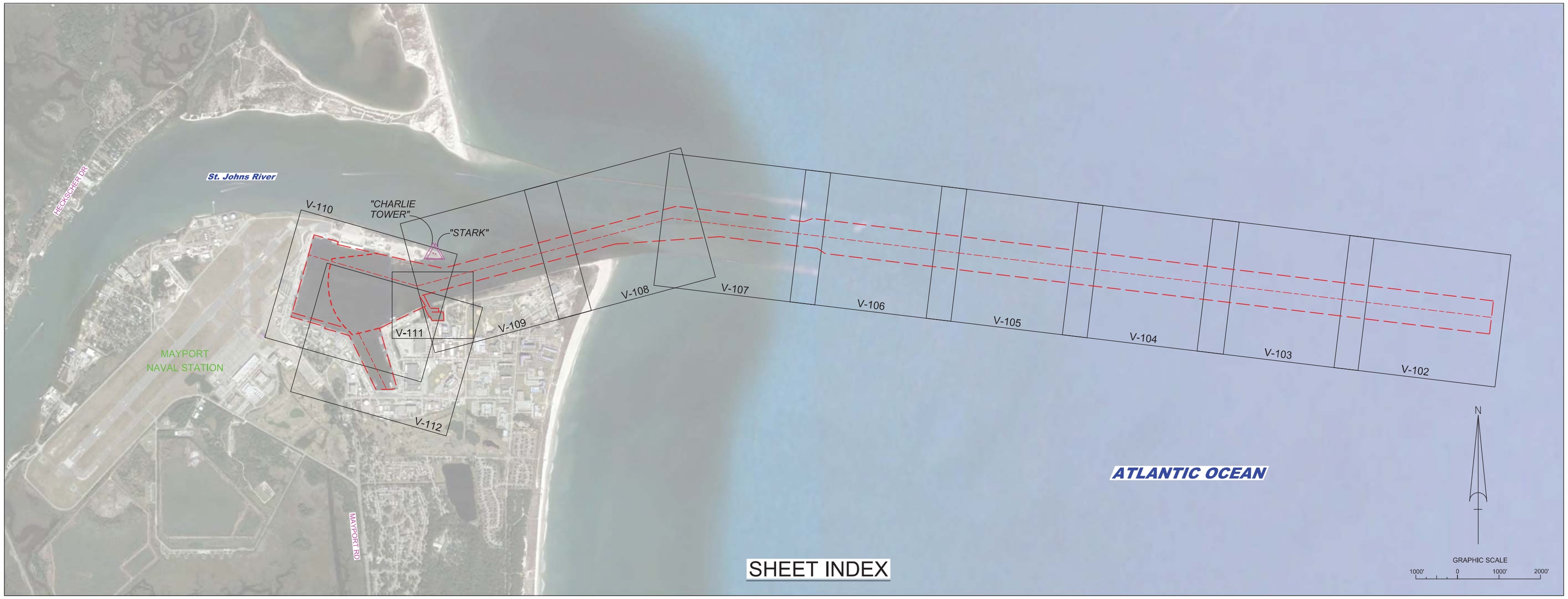
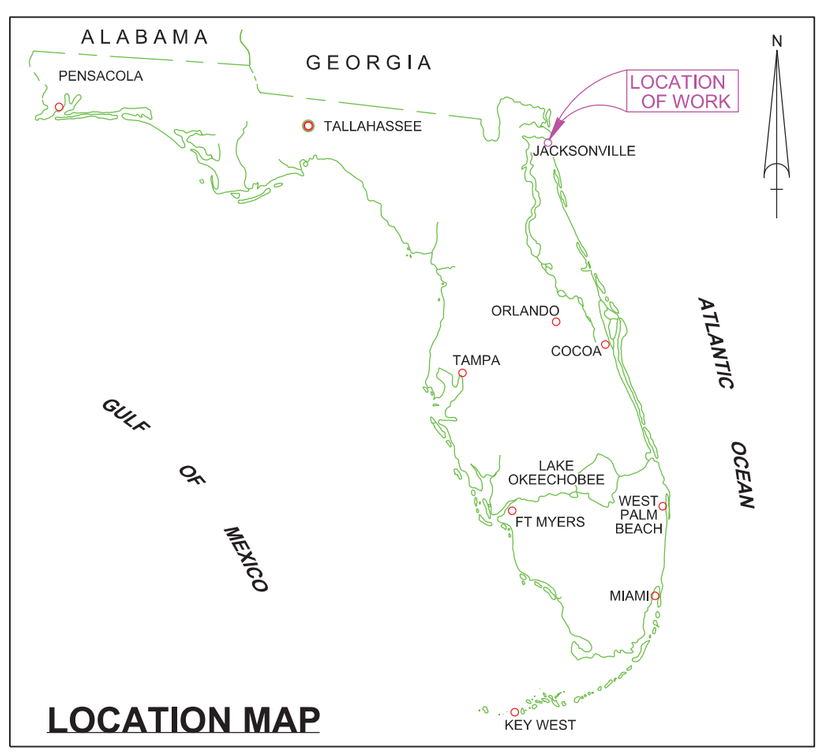
U.S. NAVAL STATION MAYPORT
1ST TRI-ANNUAL EXAMINATION SURVEY
FY16





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. 16-011.
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 GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0211 MAYPORT NAVAL STA., ST JOHNS RIVER FOR ENTIRE PROJECT.
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" (OPUS PID: BBDC09)

   TIDE STAFF LOCATED FROM "STARK" (OPUS PID: BBBZ99)
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835B SMART-SOUNDER WITH A DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER AND A R2SONIC 2021 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 OF THE ENTRANCE CHANNEL THRU THE TURNING BASIN, DESTROYER SLIP AND THE SMALL BOAT BASIN.

VESSEL	DATE OF SURVEY	CUT
SB-46	08 JAN 2016	BAR CUT-3
SB-46	12 FEB 2016	TURNING BASIN
SB-46	12 FEB 2016	DESTROYER SLIP
SB-46	12 FEB 2016	SMALL BOAT BASIN
SB-46	12 FEB 2016	ENTRANCE CHANNEL
SB-46	12 FEB 2016	ENTRANCE CHANNEL

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 AND IS NOT TO BE USED FOR NAVIGATION.
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:
Cad by:
DWN by: GMR
Chk by:
Inv. No.
Date: FEB 2016

16-011-G-SB-BRGR.DGN
MAYPORT-CAMBRIDGE.DGN

Reference files:
16-011-MAYPORT-VH-101.DGN
File name:

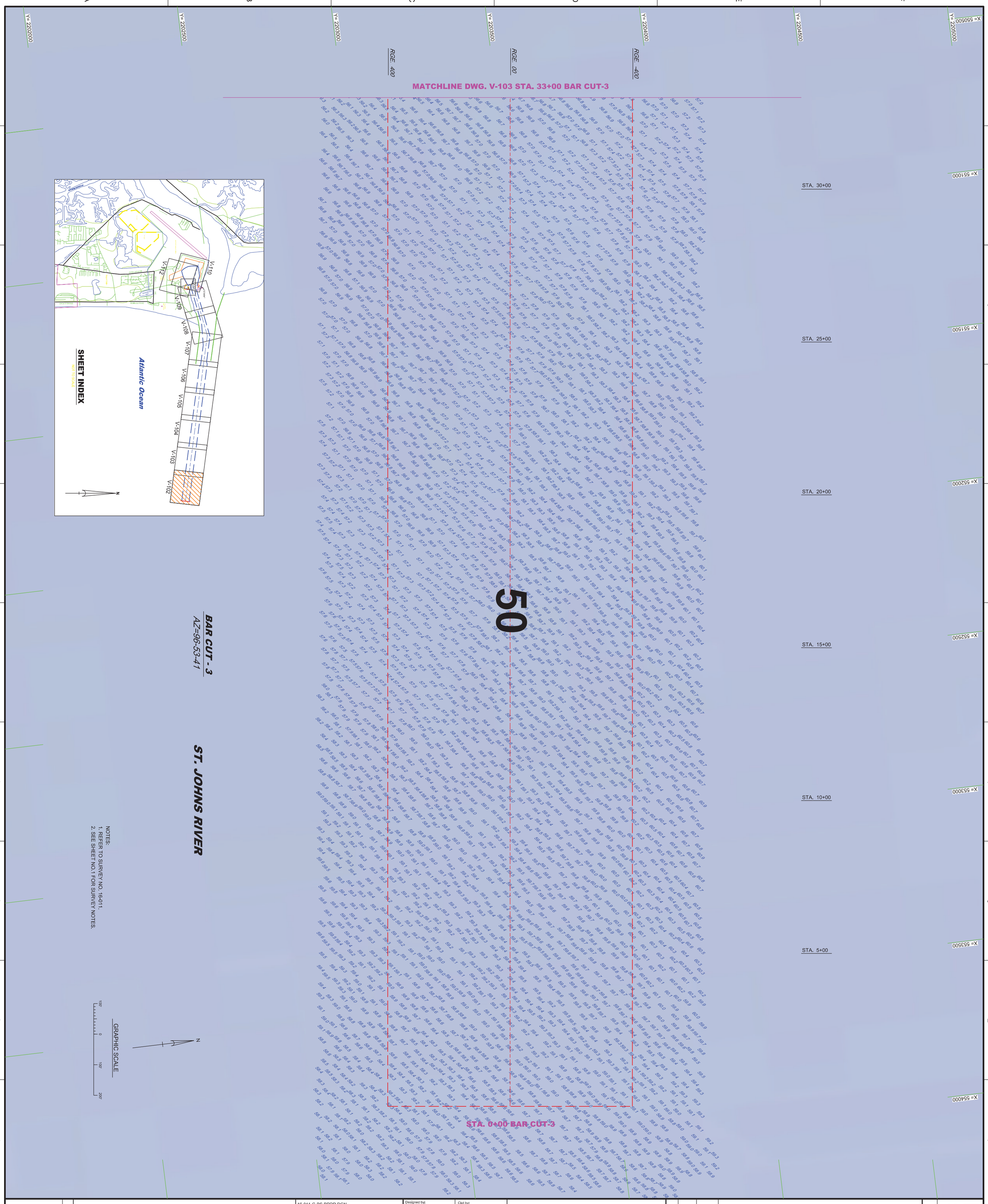
U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY

Scale: AS SHOWN

Drawing no.

VH-101



NOTES:
1. REFER TO SURVEY NO. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 0+00 TO STA 33+00 BAR CUT-3
PLAN

16-011-G-BS-BRDR.DGN
MAYPORT-C-NGMCCF.DGN
16-002-V-BC3_HF.DGN
16-011-MAYPORT-V-ISO-C.DGN

Reference files:

16-011-MAYPORT-VH-102.DGN
File name:

Designed by:
Ckd by:
DWN by: GMR
Inv. No.
Dated: FEB 2016

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Scale: AS SHOWN

Drawing no. **V-102**

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: Ckd by:
DWN by: GMR
Inv. No.
Date: FEB 2016

Reference files:
16-011-G-BS-BRDR.DGN
MAYPORT-C-NGMCCF.DGN
16-002-V-SOUN_BC3.DGN
16-011-MAYPORT-V-ISO-C.DGN
16-011-V-CONS60_HF.DGN

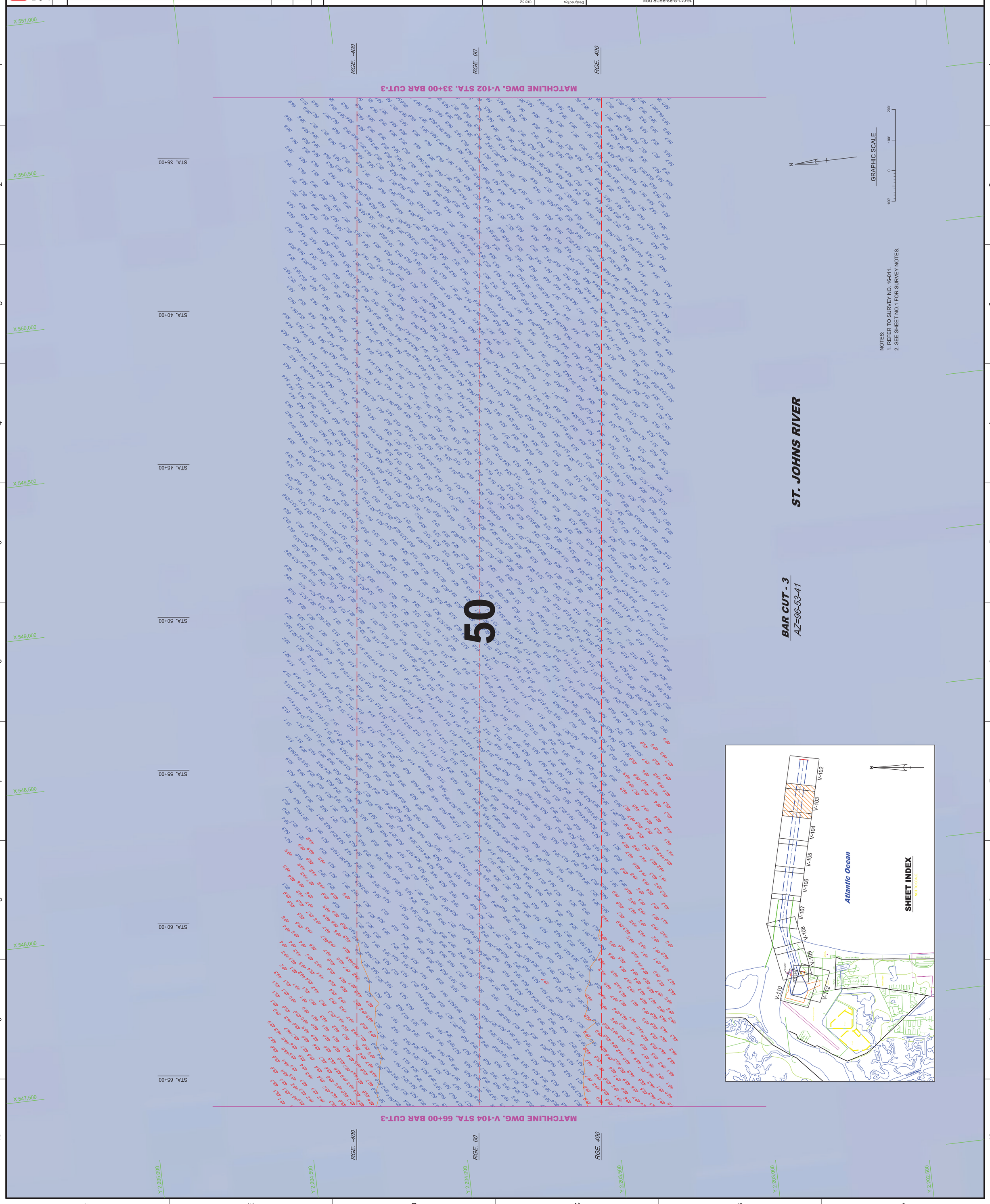
U.S. NAVAL STATION
MAYPORT, FLORIDA

3RD TRI-ANNUAL EXAM FY15
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 33+00 TO STA 66+00 BAR CUT-3
PLAN

16-011 MAYPORT-VH-103.DGN
File name:

Scale: AS SHOWN

Drawing no.
V-103



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: GMR
Ckd by:
DWN by:
Ckd by:
Inv. No.
Date: FEB 2016

16-011-G-BS-BRDR.DGN
MAYPORT-C-NGMCCF.DGN
16-002-V-SOUN_BC3.DGN
16-011-MAYPORT-V-ISO-C.DGN
16-011-V-CON50_HF.DGN
Reference files:

16-011-MAYPORT-V-H-104.DGN
File name:

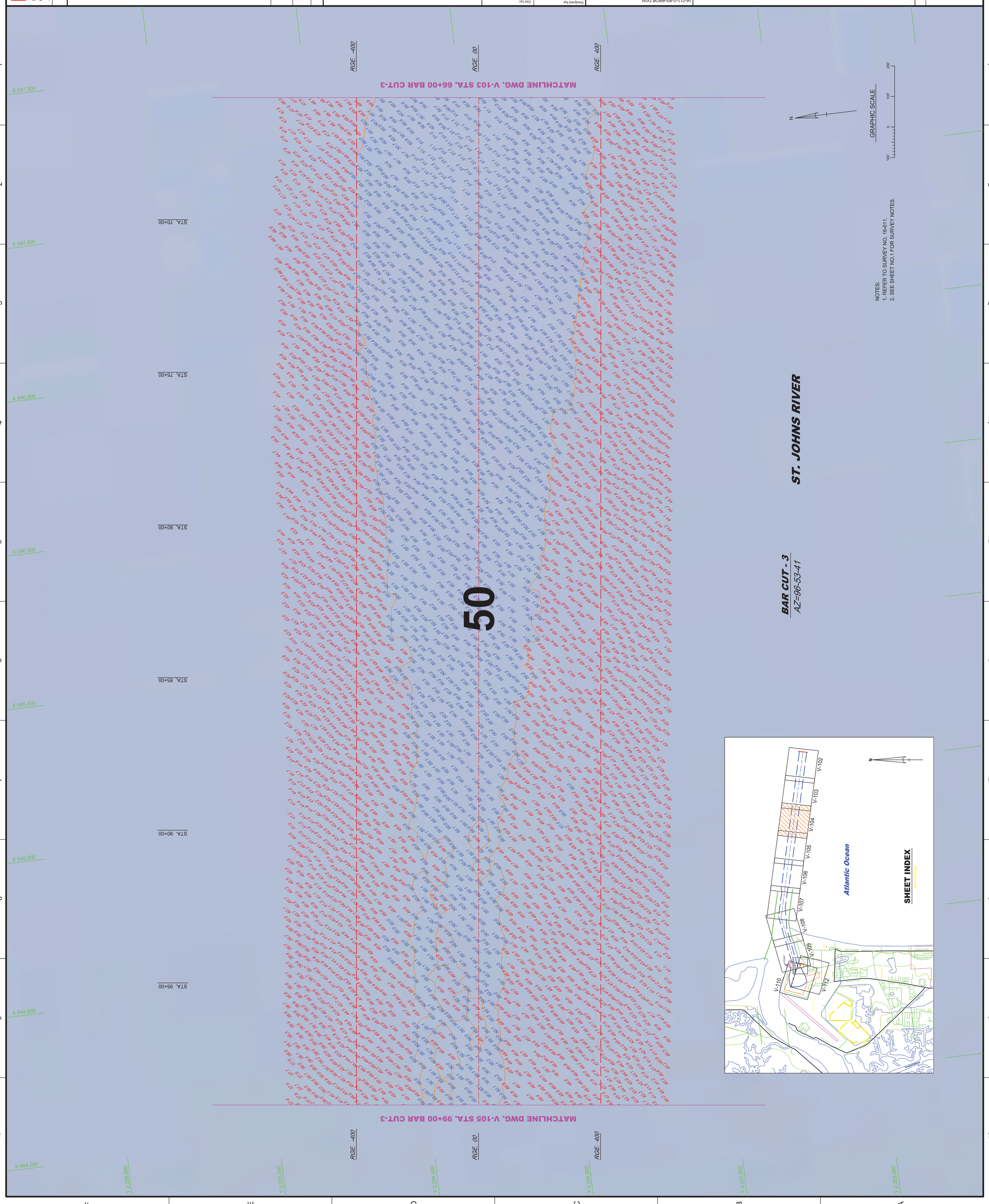
U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 66+00 TO STA 99+00 BAR CUT-3
PLAN

Scale: AS SHOWN

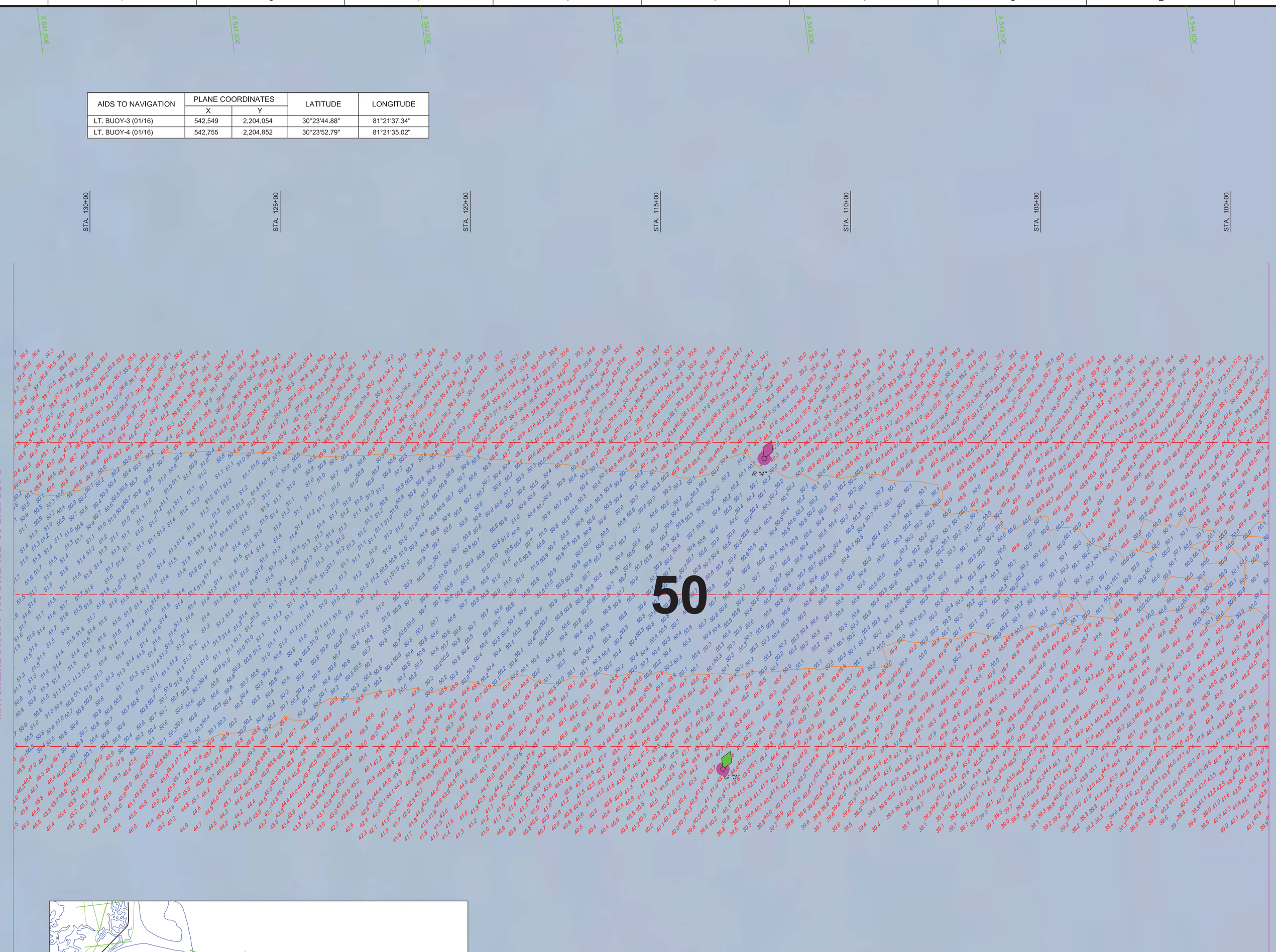
Drawing no.

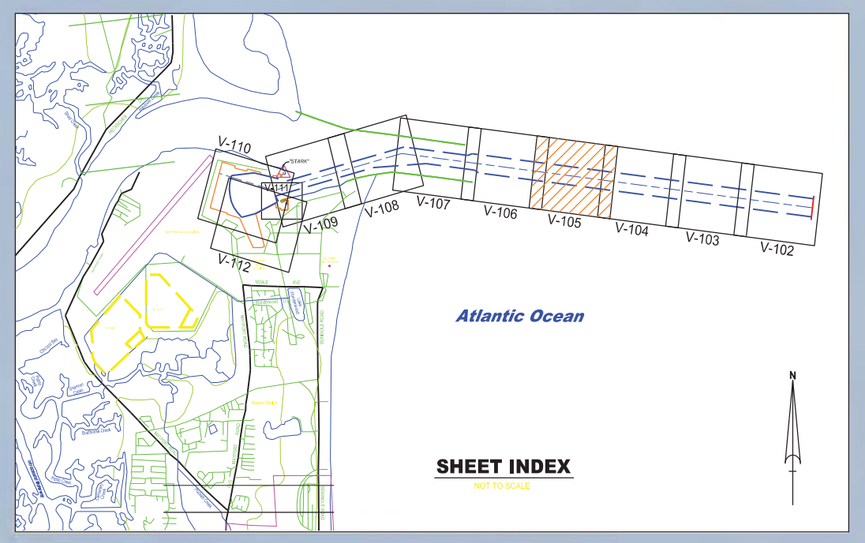
V-104



NOTES:
1. REFER TO SURVEY NO. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (01/16)	542,549	2,204,054	30°23'44.88"	81°21'37.34"
LT. BUOY-4 (01/16)	542,755	2,204,852	30°23'52.79"	81°21'35.02"





SHEET INDEX
NOT TO SCALE

BAR CUT - 3
AZ=96-53-41

ST. JOHNS RIVER

NOTES:
1. REFER TO SURVEY NO. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

GRAPHIC SCALE
100' 0 100' 200'

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:
Cad by:
DWN by: GMR
Rev. No.
Date: FEB 2016

16-011-CA-SJE-BRCR.DGN
MAYPORT-HS-ACOUSTIC.DGN
16-002-NV-SOUN_BCG.DGN
15-011-V-NAV.DGN
15-011-MAYPORT-J-BSO-C.DGN
15-011-V-CORS_RF.DGN
Reference files:

16-011-MAYPORT-V16-105.DGN
File name:

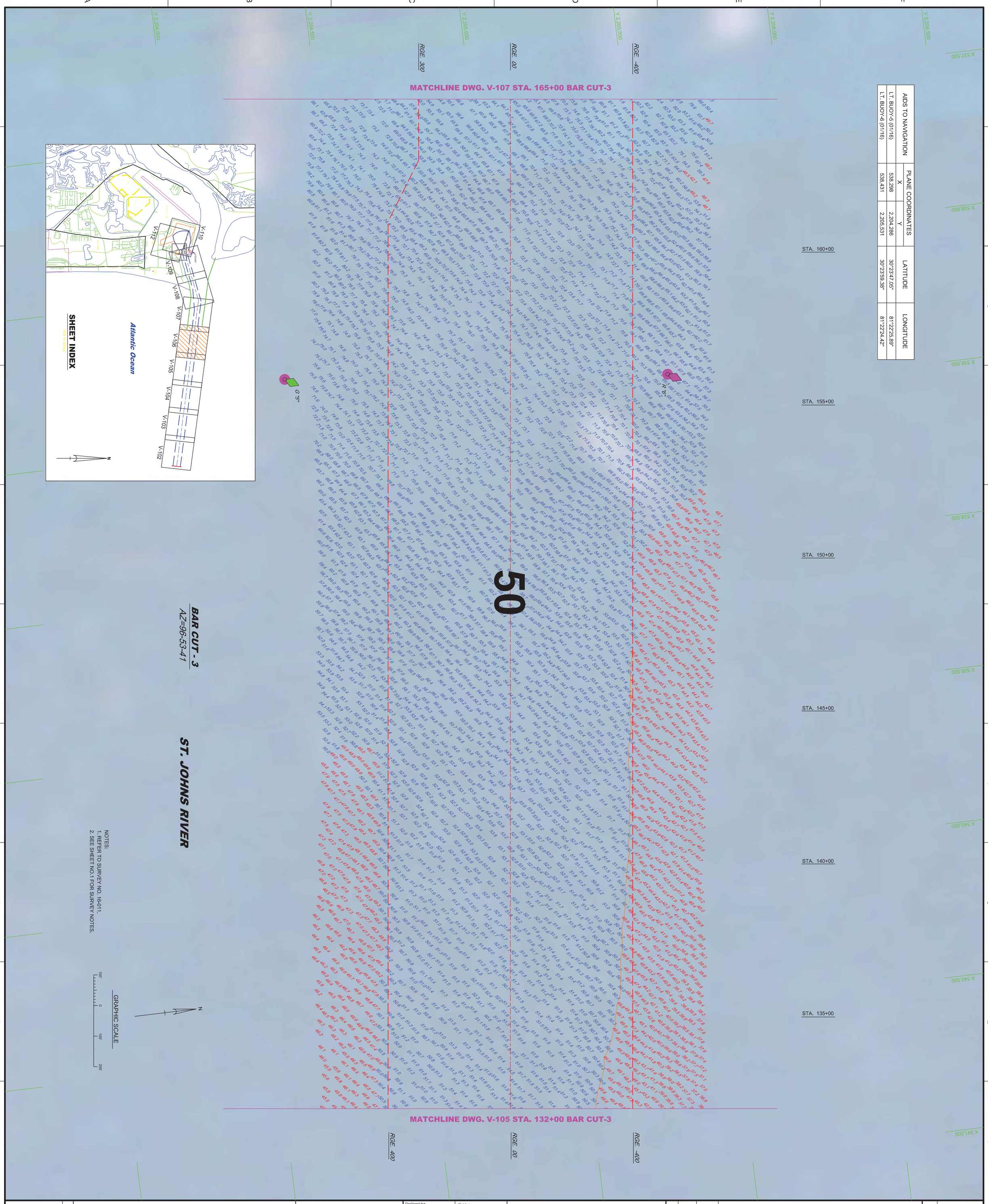
U.S. NAVAL STATION
MAYPORT, FLORIDA
1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 99+00 TO STA 132+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-105

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (01/16)	538,298	2,204,286	30°23'47.05"	81°22'25.89"
LT. BUOY-6 (01/16)	538,431	2,205,531	30°23'59.38"	81°22'24.42"



BAR CUT - 3
AZ=96-53-41

ST. JOHNS RIVER

NOTES:
1. REFER TO SURVEY NO. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

Scale: AS SHOWN	U.S. NAVAL STATION MAYPORT, FLORIDA **1ST TRI-ANNUAL EXAM FY16** **50 - FOOT PROJECT** **HYDROGRAPHIC EXAM SURVEY** **STA 132+00 TO STA 165+00 BAR CUT-3** **PLAN**	16-011-G-BS-BRDR.DGN MAYPORT-C-NGMCCF.DGN 16-002-V-SOUN_BC3.DGN 16-011-V-NAV.DGN 16-011-MAYPORT-V-ISO-C.DGN 16-V-CON50_HF.DGN Reference files: 16-011-MAYPORT-VH-106.DGN File name:	Designed by: Ckd by: DWN by: GMR Inv. No. Dated: FEB 2016
Drawing no. **V-106**			

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

No.	Symbol	Zone	Description

US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB DEPENDS ON YOU

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (01/16)	534,986	2,204,875	30°23'52.77"	81°23'03.74"
LT. BUOY-8 (01/16)	535,346	2,205,760	30°24'01.54"	81°22'59.65"

STA. 195+00
STA. 190+00
STA. 185+00
STA. 180+00
STA. 175+00
STA. 170+00

MATCHLINE DWG. NO. V-108 STA. 198+00 BAR CUT-3

MATCHLINE DWG. V-106 STA. 165+00 BAR CUT-3

RGE. -300
RGE. 00
RGE. VARIES
RGE. -300
RGE. 00
RGE. 300

R "8"

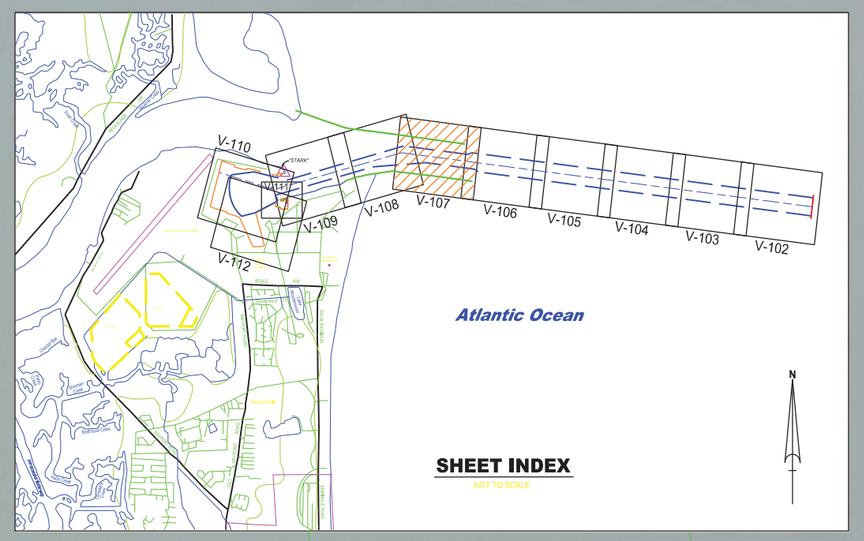
G "7"

STA. 188+58.66
BAR CUT-3

50

BAR CUT - 3
AZ=96-53-41

ST. JOHNS RIVER



SHEET INDEX
NOT TO SCALE

NOTES:
1. REFER TO SURVEY NO. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

GRAPHIC SCALE
100' 0 100' 200'

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: GMR
Rev. No.
Date: FEB 2016

16-011-LB-JB-BRGR.DGN
MAYPORT-PC-BRGR.DGN
16-002-N-SOUN_BC3.DGN
16-011-V-ANV.DGN
16-011-V-VOR-ABS-C-LC.DGN
16-011-V-CONSQ_JF.DGN

Reference files:

16-011-MAYPORT-VH-107.DGN
File name:

U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 165+00 TO STA 198+00 BAR CUT-3
PLAN

Scale: AS SHOWN

Drawing no.

V-107

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: | Cxd by:
DWN by: GMR | Inv. No.
Date: FEB 2016

Reference files:
16-011-MAYPORT-VH-108.DGN

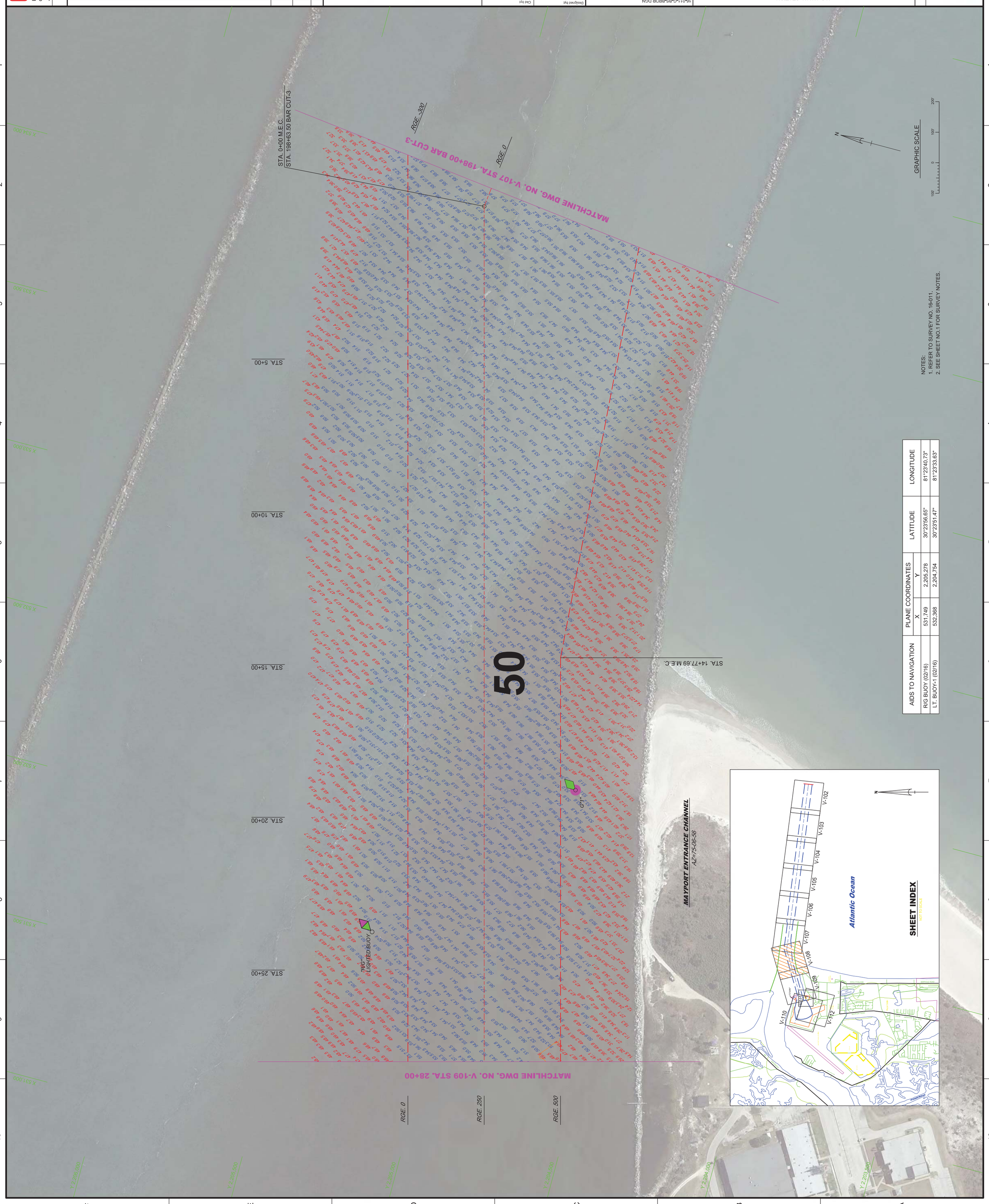
File name:
16-011-G-BS-BRDR.DGN
MAYPORT-C-NGMCCF.DGN
16-011-V-MFEC_HF.DGN
16-011-V-NAV.DGN
16-011-MAYPORT-V-ISO-C.DGN
16-011-V-CONS0_HF.DGN

U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
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. 16-011.
2. SEE SHEET NO.1 FOR SURVEY NOTES.

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R/G BUOY (02/16)	531,749	2,205,278	30°23'56.65"	81°23'40.73"
LT. BUOY-1 (02/16)	532,368	2,204,754	30°23'51.47"	81°23'33.63"

U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
STA 28+00 TO STA 58+00 ENTRANCE CHANNEL
PLAN

16-011-G-BS-BRDR.DGN
MAYPORT-C-NGMCCF.DGN
16-011-V-M-MPEC_HF.DGN
16-011-V-M-MPTB_LF.DGN
16-011-V-MAV.DGN
16-011-V-CONS0_HF.DGN
16-011-MAYPORT-V-ISO-C.DGN

Reference files:

16-011-MAYPORT-V-H-109.DGN

File name:

Designed by:
Cad by:
DWN by: GMR
Date: FEB 2016
Inv. No.

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

US Army Corps of Engineers
Jacksonville District

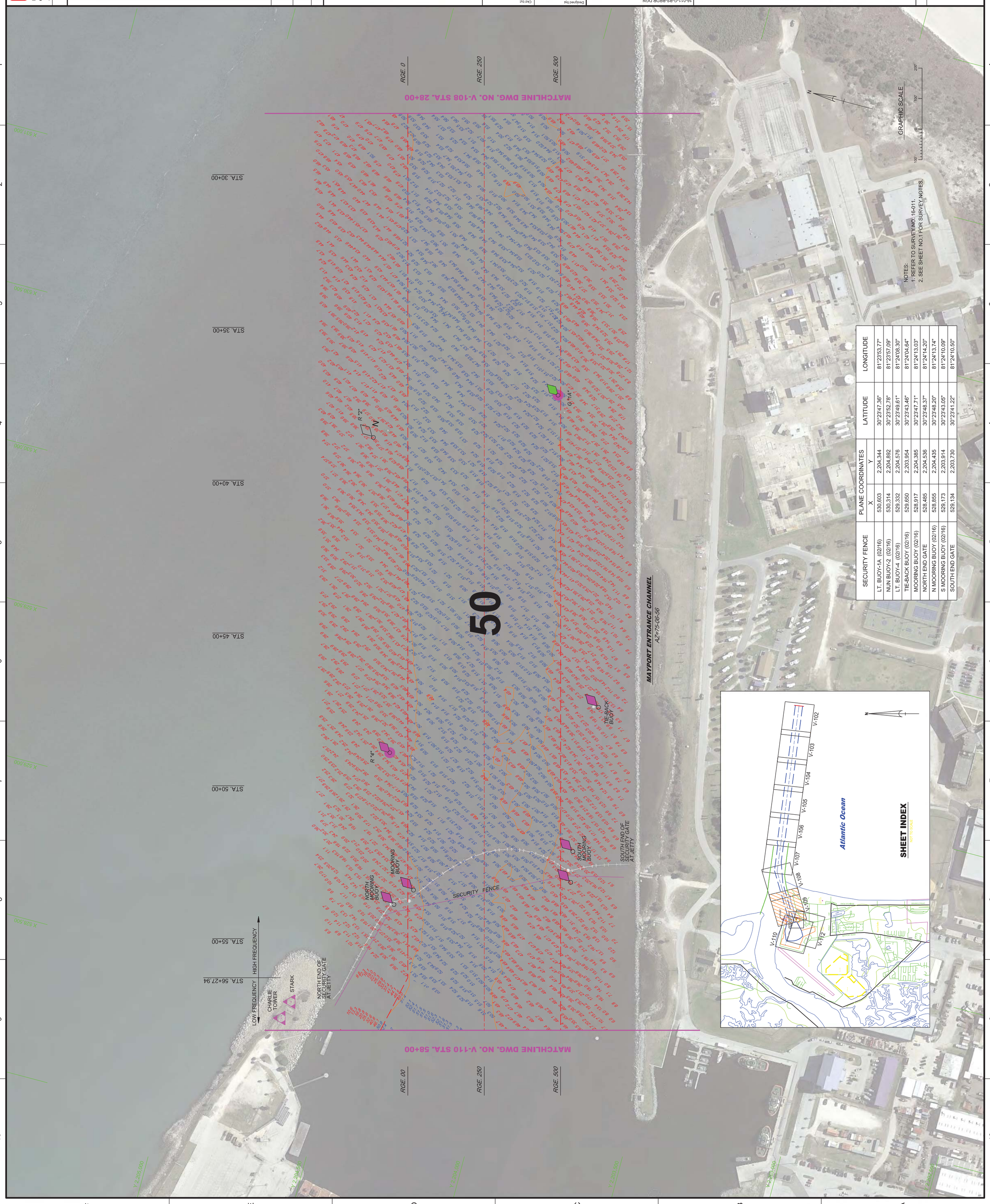
SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description

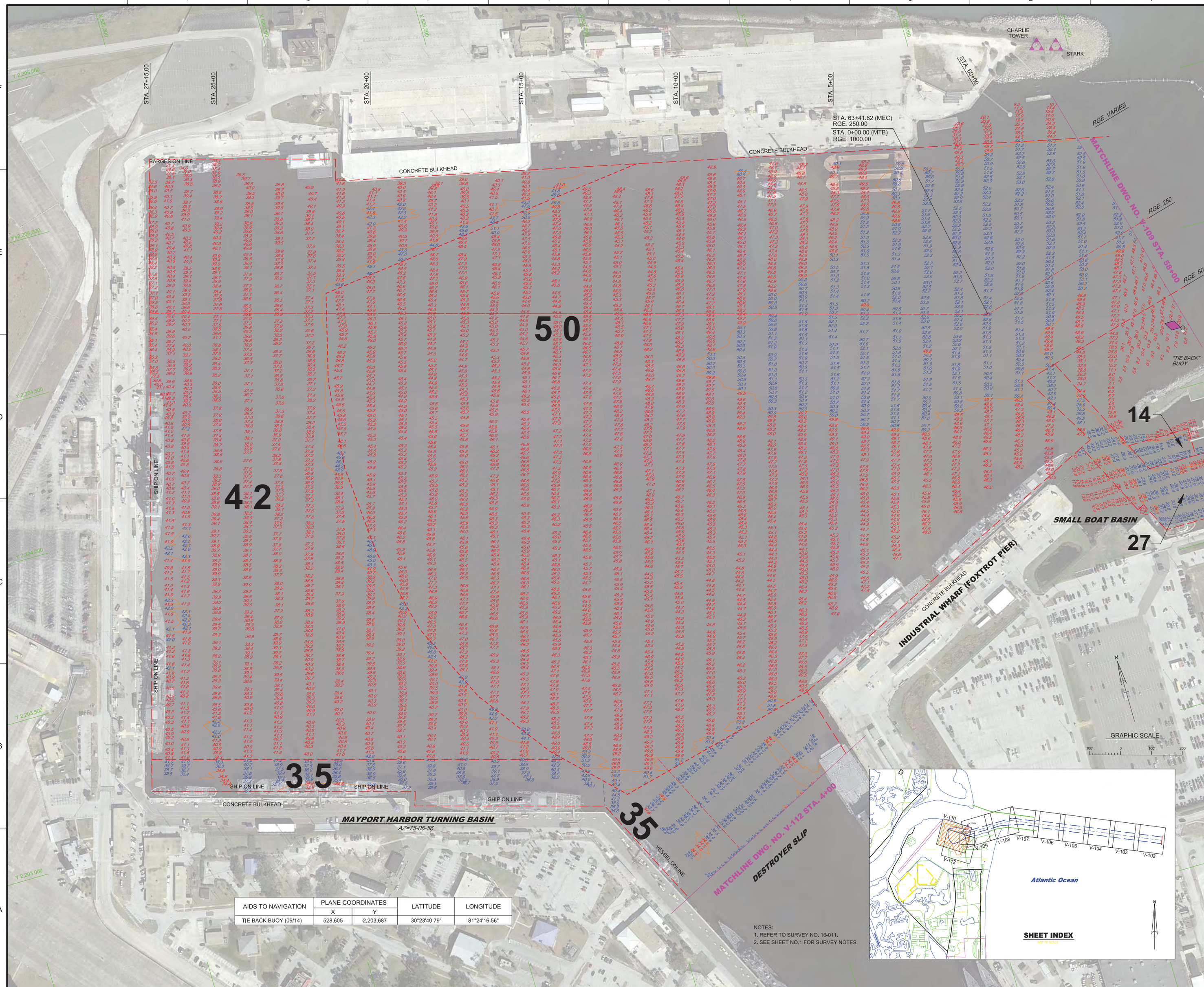
Scale: AS SHOWN

Drawing no.

V-109



SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1A (02/16)	530,603	2,204,344	30°23'47.36"	81°23'53.77"
NUN BUOY-2 (02/16)	530,314	2,204,892	30°23'52.78"	81°23'57.09"
LT. BUOY-4 (02/16)	529,332	2,204,576	30°23'49.61"	81°24'08.30"
TIE-BACK BUOY (02/16)	529,650	2,203,954	30°23'43.46"	81°24'04.64"
MOORING BUOY (02/16)	528,917	2,204,385	30°23'47.71"	81°24'13.03"
NORTH END GATE	528,485	2,204,536	30°23'48.37"	81°24'14.20"
N MOORING BUOY (02/16)	528,855	2,204,435	30°23'48.20"	81°24'13.74"
S MOORING BUOY (02/16)	529,173	2,203,914	30°23'43.05"	81°24'10.09"
SOUTH END GATE	529,134	2,203,730	30°23'41.22"	81°24'10.50"



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
TIE BACK BUOY (09/14)	528,605	2,203,687	30°23'40.79"	81°24'16.56"

NOTES:
1. REFER TO SURVEY NO. 16-011.
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

Cad by:
Designed by:
DWN by: GMR
Rev. No.
Date: FEB 2016

CON50_HF.DGN
CON42_LF.DGN
CON35_LF.DGN
CON27_LF.DGN
CON14_LF.DGN

16-011-SUB-BRGS.DGN
MAYPORT-MAPS-CON.DGN
16-011-VAMPOS_LF.DGN
16-011-VAMPTB_LF.DGN
16-011-VAMPTS_LF.DGN
16-011-VANAV.DGN
16-011-MAYPORT-VABOC.DGN
16-011-VAPPSBB_LF_100SCALE.DGN

Reference files:

16-011-MAYPORT-VHK110.DGN

File name:

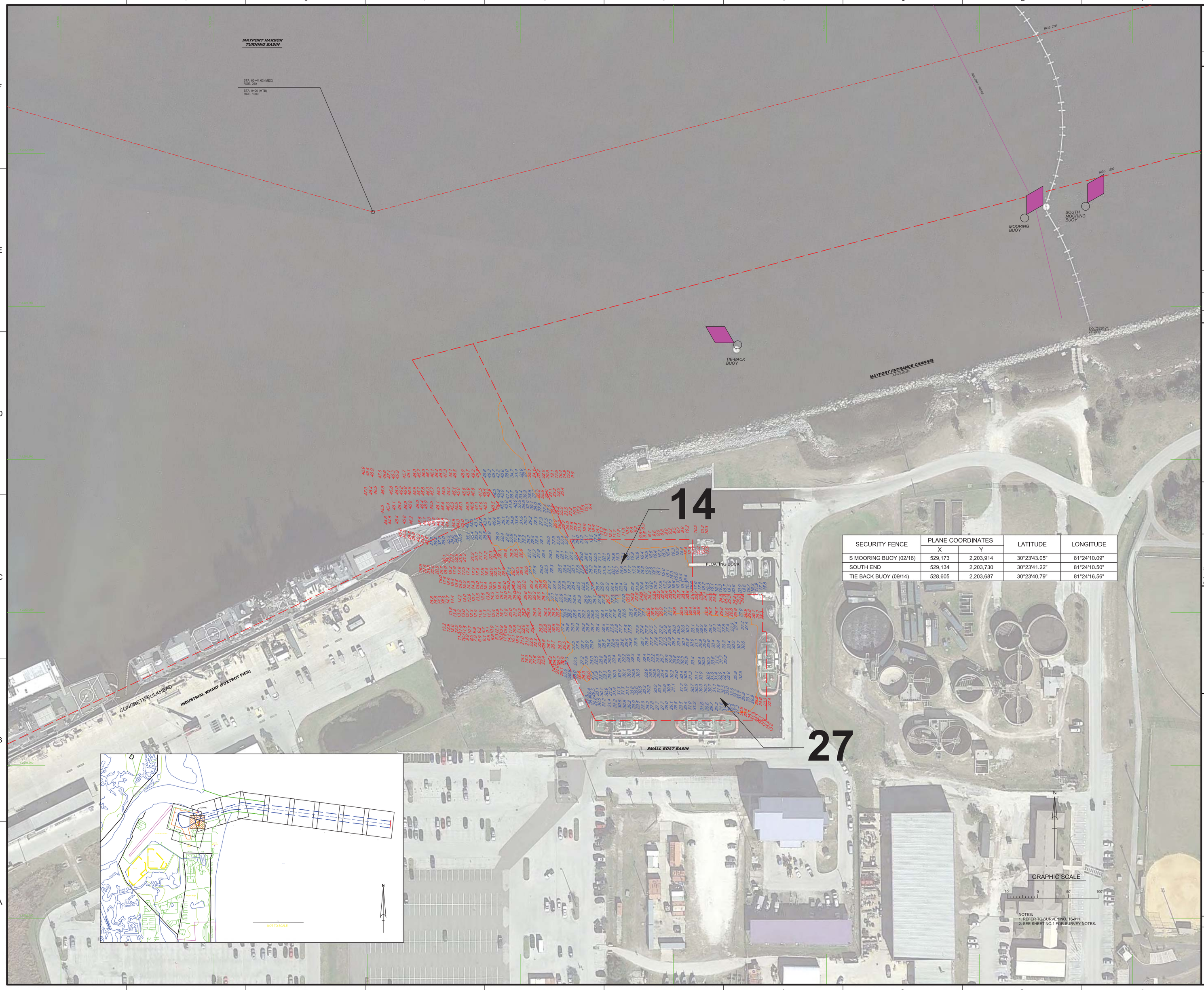
U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
TURNING BASIN
PLAN

Scale: AS SHOWN

Drawing no.

V-110



SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
S MOORING BUOY (02/16)	529,173	2,203,914	30°23'43.05"	81°24'10.09"
SOUTH END	529,134	2,203,730	30°23'41.22"	81°24'10.50"
TIE BACK BUOY (09/14)	528,605	2,203,687	30°23'40.79"	81°24'16.56"

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: GMR
Inv. No.
Date: SEP 2015

16-011-C-B-BRGR.DGN
MAYPORT-V-ROCK-C.DGN
16-011-V-CON14_LF.DGN
16-011-V-CON27_LF.DGN
16-011-MAYPORT-V-BRGR.DGN
16-011-MAYPORT-V-ROCK-SCALE.DGN
16-011-MAYPORT-V-ROCK-C.DGN

Reference files:
15-166-MAYPORT-VH-111.DGN
File name:

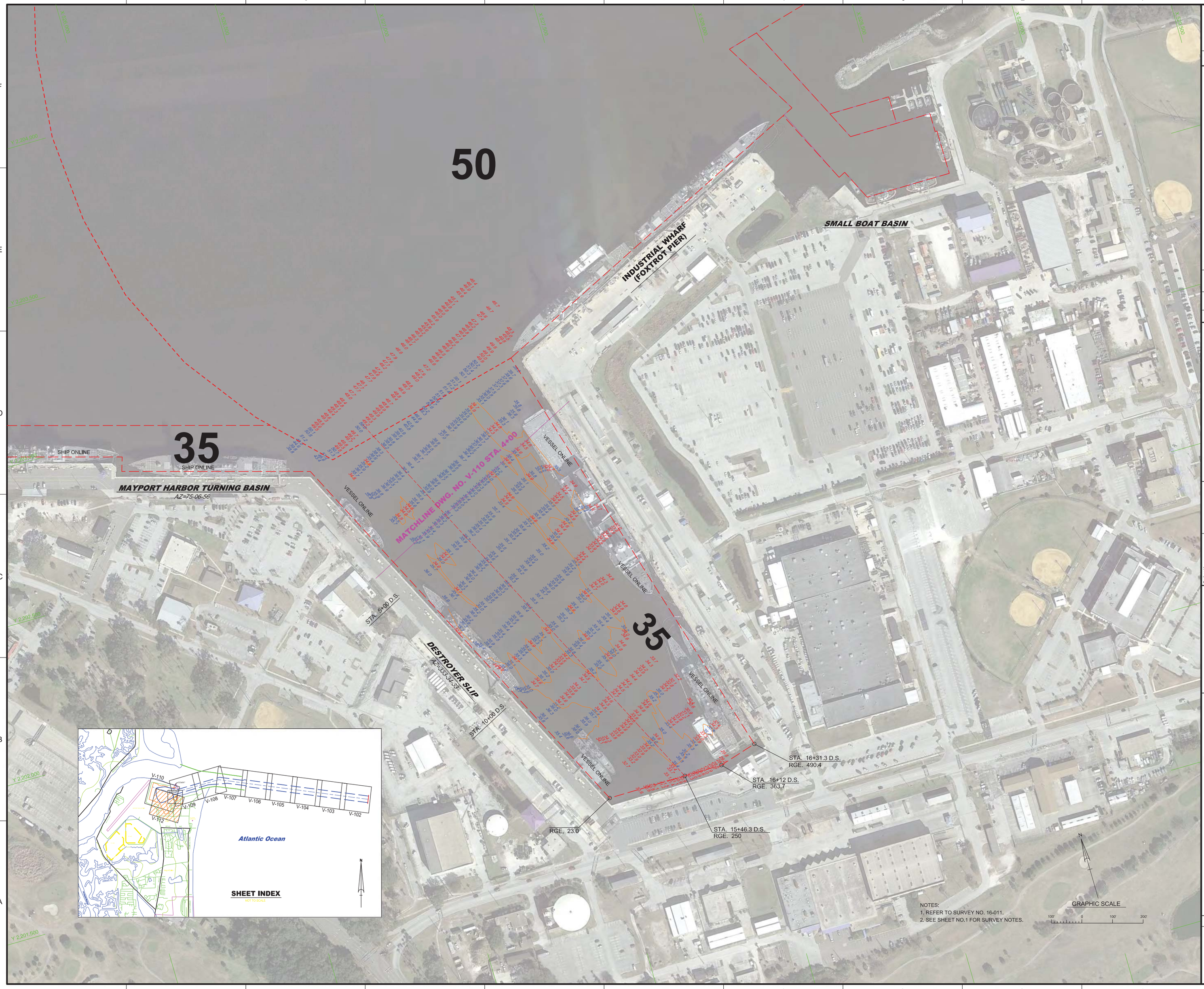
U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
SMALL BOAT BASIN
PLAN

Scale: AS SHOWN

Drawing no.

V-111



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:
Ckd by:
DWN by: GMR
Inv. No.
Dated: SEP 2015

16-011-G-BS-BRDR.DGN
MAYPORT-CANGMCCF.DGN
16-011-V-MPDS_LF.DGN
16-011-MAYPORT-VASO-C.DGN
16-011-V-CON35_LF.DGN

Reference files:
16-011-MAYPORT-VH-112.DGN
File name:

U.S. NAVAL STATION
MAYPORT, FLORIDA

1ST TRI-ANNUAL EXAM FY16
50 - FOOT PROJECT
HYDROGRAPHIC EXAM SURVEY
DESTROYER SLIP
PLAN

Scale: AS SHOWN

Drawing no.

V-112