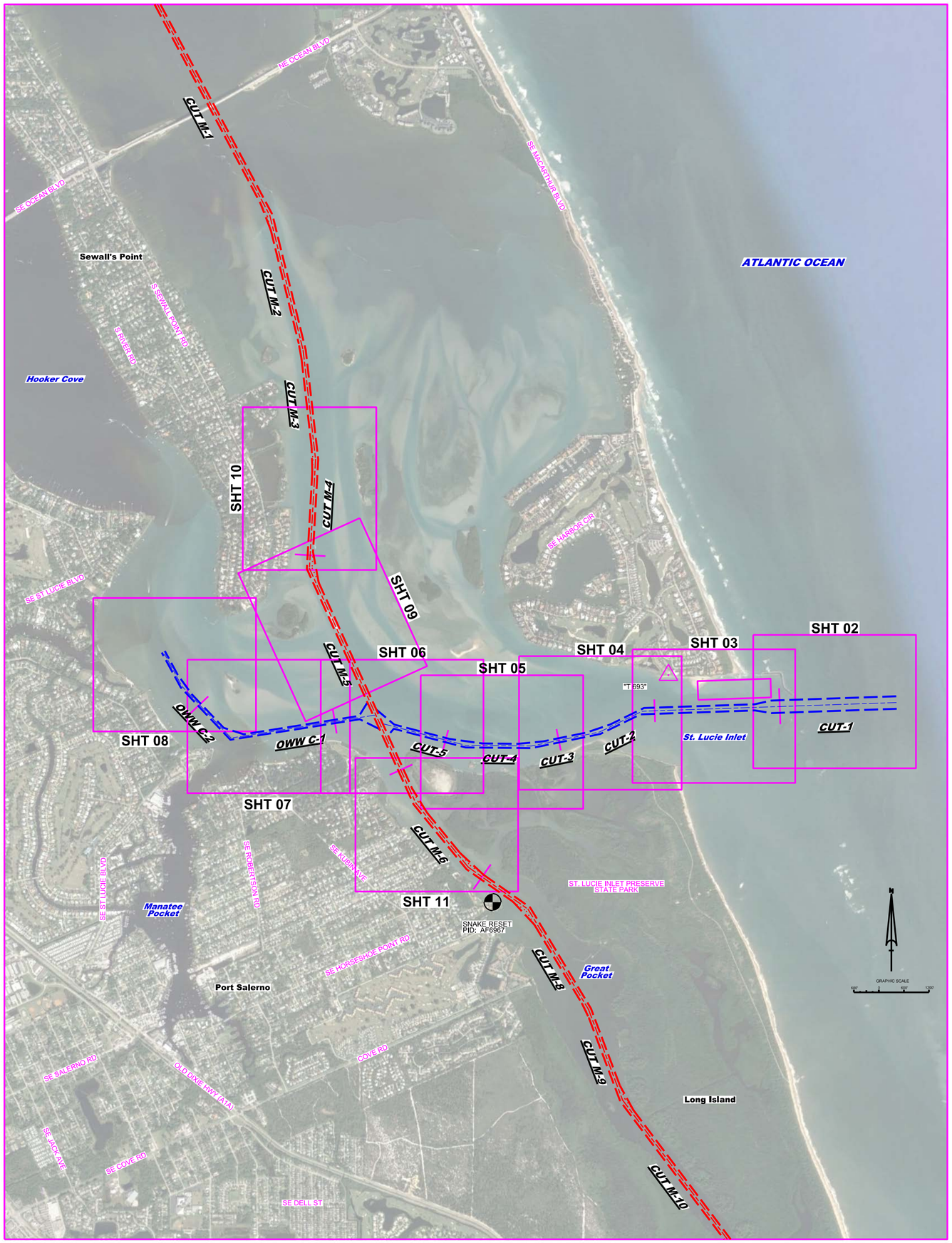
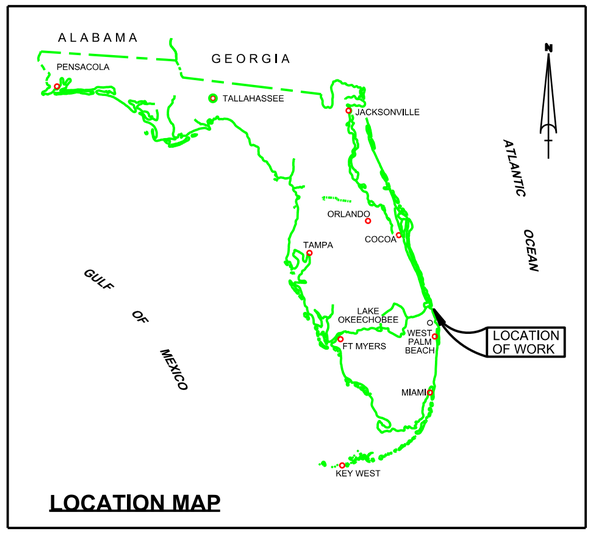




LOCATION MAP

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 18-080.
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 KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "INDIANRIVER-STLUCIE-MARTIN-20140527.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 "T 693" (PID: BBFH83)

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 HEIGHTS OF THE BENCH MARK BELOW:

   NOAA TIDAL STATION 872-2381 FOR ALL CUTS (PID: AF6967)

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN SONAR AND A ROSS SMARTSOUNDER DUAK-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	05 FEB 2018	CUTS 1-4
TOPO	06 FEB 2018	IMPOUNDMENT BASIN
SB-50	08 FEB 2018	IMPOUNDMENT BASIN

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 13.

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

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: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V9912EP-XX-X-XXXX
Date: FEB 2018

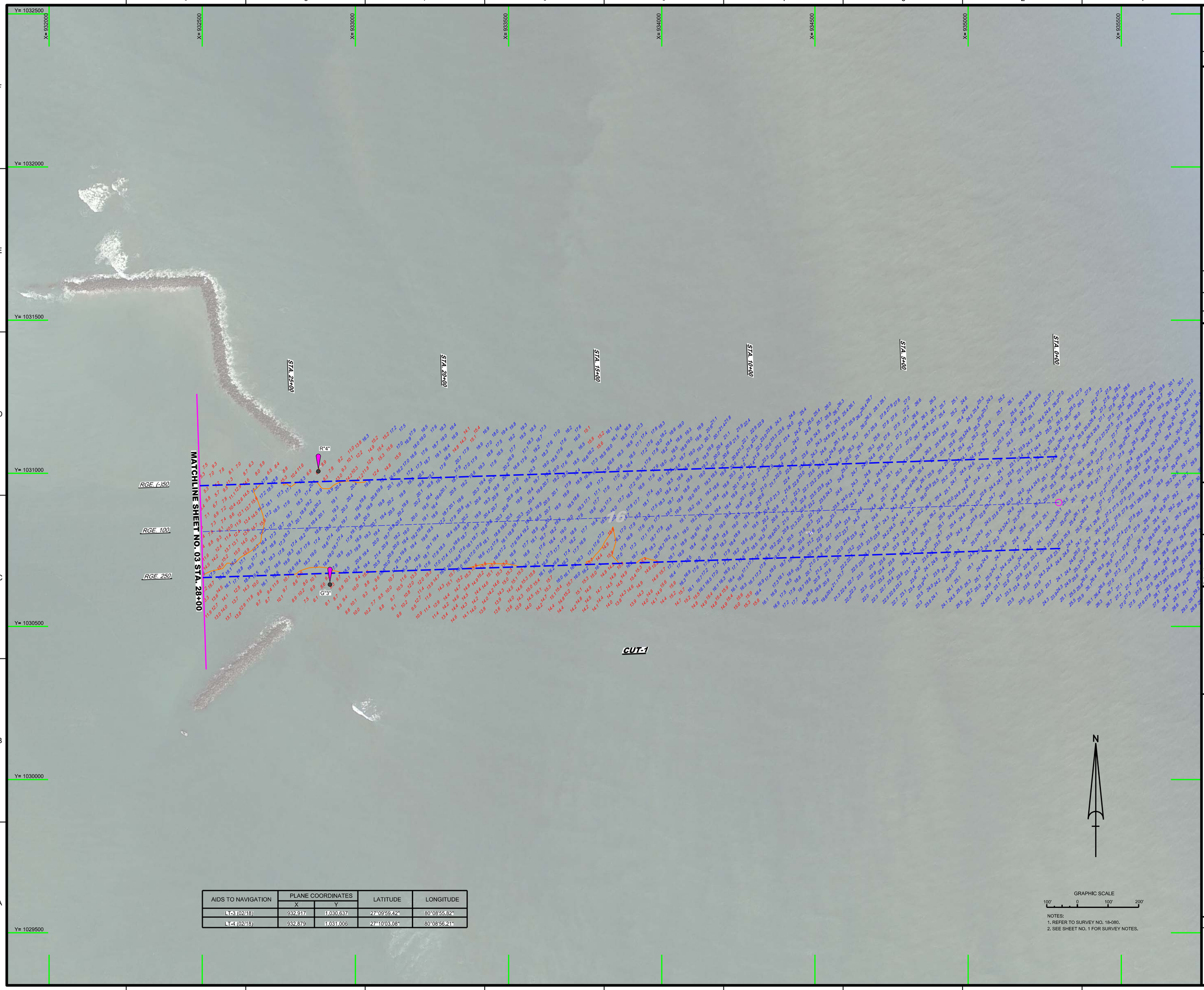
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
IWW-C-NEW-CF.DGN
SLI AND OWW (CUTS 1-3)-MOCF.DGN
18-080-SB-SB-BKDR.DGN
Reference files:
18-080-VH-SH01.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1 / 5

SHEET 01 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-3 (02/18)	932,917	1,030,637	27°09'59.42"	80°08'55.82"
LT-4 (02/18)	932,879	1,031,006	27°10'03.08"	80°08'56.21"

NOTES:
1. REFER TO SURVEY NO. 18-080.
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

Checked by: GMR
Designed by: WRM
DWN by: WRM
Rev. No.: W912EP-XX-X-XXXX
Date: FEB 2018

Reference files:
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
18-080-A-CON16.DGN
18-080-A-CON17.DGN
18-080-A-NAV.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
18-080-CABS-BRDR.DGN
Reference files:
18-080-WH-SHI02.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRPAHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT

STA. 0+00 THRU STA. 28+00 CUT-1

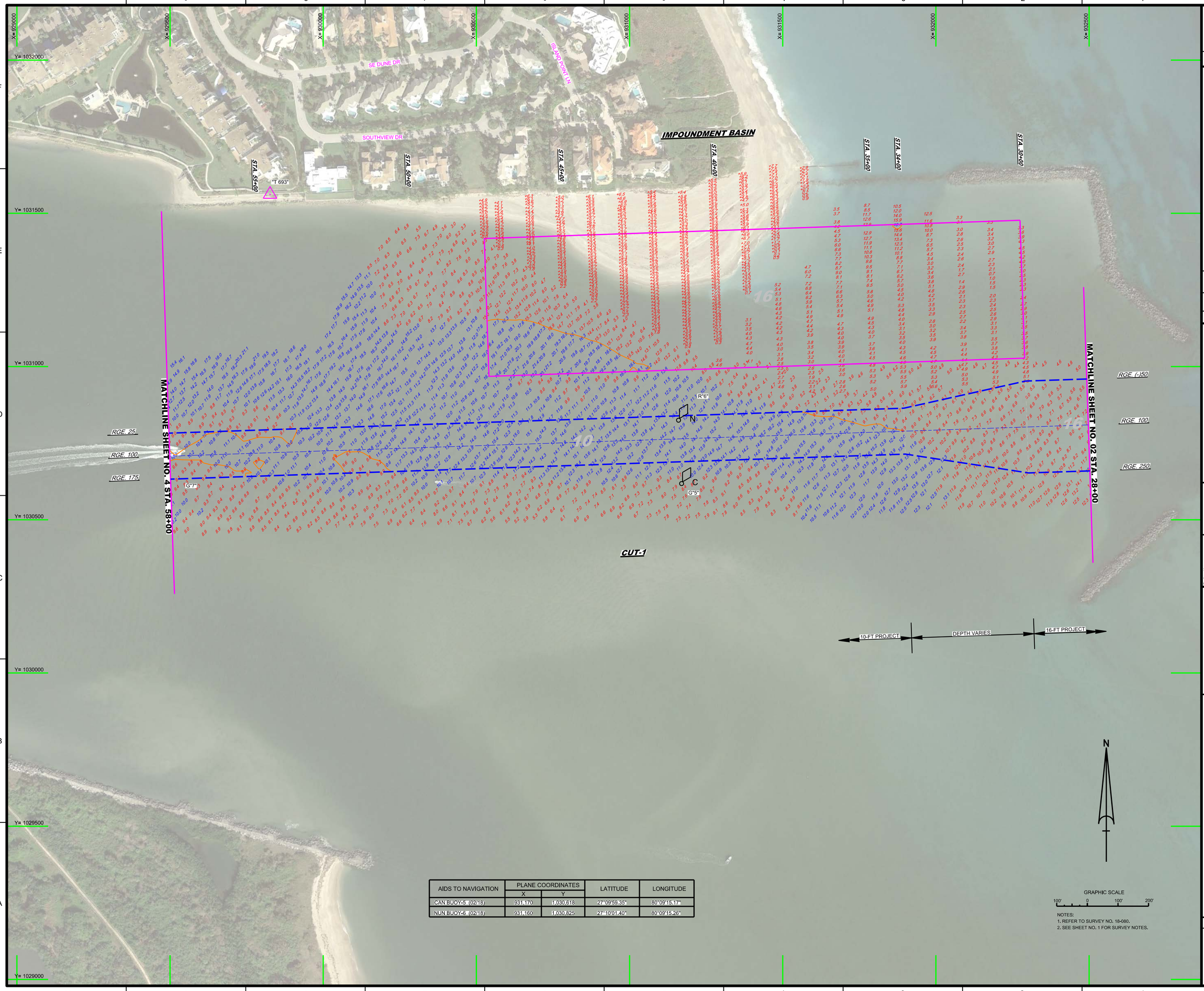
PLAN

Scale: AS SHOWN

Drawing no.

2 / 5

SHEET 02 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-5 (02/18)	931,170	1,030,618	27°09'59.35"	80°09'15.17"
NUN BUOY-6 (02/18)	931,160	1,030,825	27°10'01.40"	80°09'15.26"

NOTES:
1. REFER TO SURVEY NO. 18-080.
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: VIRM
DWN by: VIRM
Chd by: CMR
Rev. No. V9123EP-XX-X-XXXX
Date: FEB 2018

Reference files:
18-080-V-CONTOUR.DGN
18-080-V-CONTLINE.DGN
18-080-V-SOUN_IB.DGN
18-080-V-SOUN_C1.DGN
18-080-V-SOUN_IB.DGN
18-080-V-NAVAID.DGN
SLI AND OWW\CUTS 1-3\MCCF.DGN
18-080-CESHORDR.DGN
File name: 18-080-VHSHOD.DGN

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT

STA. 28+00 THRU STA. 58+00 CUT-1

PLAN

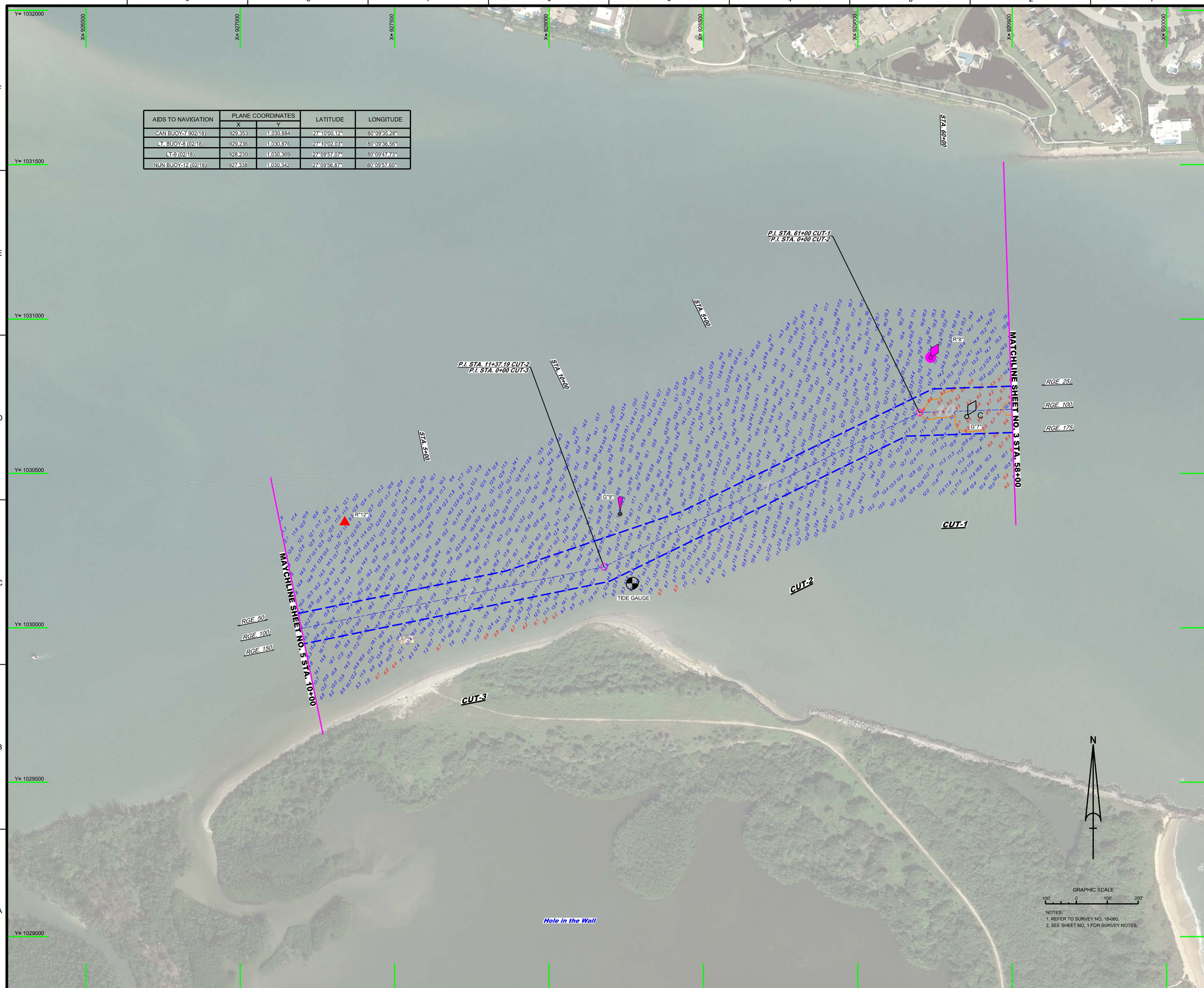
Scale: AS SHOWN

Drawing no.

3 / 5

SHEET 03 OF 11

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-7 902/18)	929,353	1,030,684	27°10'00.12"	80°09'35.28"
LT. BUOY-8 (02/18)	929,236	1,030,876	27°10'02.03"	80°09'36.56"
LT-9 (02/18)	928,230	1,030,369	27°09'57.07"	80°09'47.73"
NUN BUOY-12 (02/18)	927,338	1,030,342	27°09'56.87"	80°09'57.60"



NOTES:
1. REFER TO SURVEY NO. 18-080.
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
Chd by: CMR
Rev. No. V9123EP-XX-X-XXXX
Date: FEB 2018

XX-XX-XXX-X-XXX-XXX.DGN
18-080-V-CONV.DGN
18-080-V-CONTOUR.DGN
18-080-V-SOUN_C1.DGN
18-080-V-SOUN_C2.DGN
18-080-V-SOUN_C3.DGN
18-080-V-NAV.DGN
SLI AND ONWI(CUTS 1-3)-MCCF.DGN
18-080-CES-SHORLINE.DGN
Reference files:
18-080-VH-SHOALDGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRPAHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT

STA. 58+00 CUT-1 THRU STA. 10+00 CUT-3

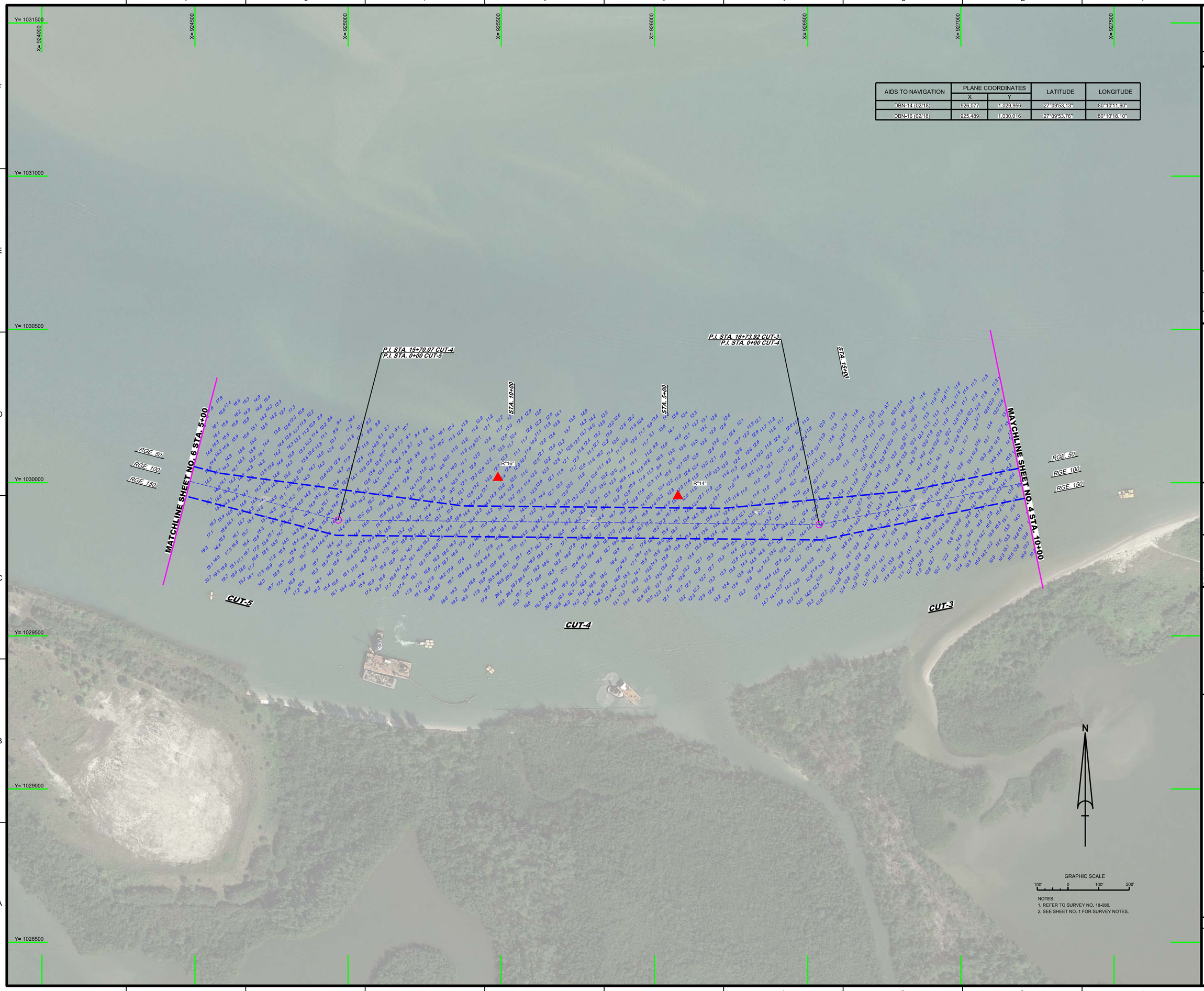
PLAN

Scale: AS SHOWN

Drawing no.

4 / 5

SHEET 04 OF 11



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-14 (02/18)	926,077	1,029,956	27°09'53.13"	80°10'11.60"
DBN-16 (02/18)	925,489	1,030,016	27°09'53.76"	80°10'18.10"

NOTES:
1. REFER TO SURVEY NO. 18-080.
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
Chd by: CMR
Rev. No. W912EP-XX-X-XXXX
Date: FEB 2018

XXXXXXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXXXXXX.DGN
18-080-A-SOUN_C4.DGN
18-080-A-SOUN_C5.DGN
18-080-A-NAVI.DGN
SLI AND OWW(CUTS 1-3)-MCCF.DGN
19-095-A-ESHBRDR.DGN
Reference files:
18-080-VH-SHOS.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRPAHIC EXAM SURVEY FY18
7, 10 & 16-FOOT PROJECT

STA. 10+00 CUT-3 THRU STA. 5+00 CUT-5

PLAN

Scale: AS SHOWN

Drawing no.

5 / 5

SHEET 05 OF 11