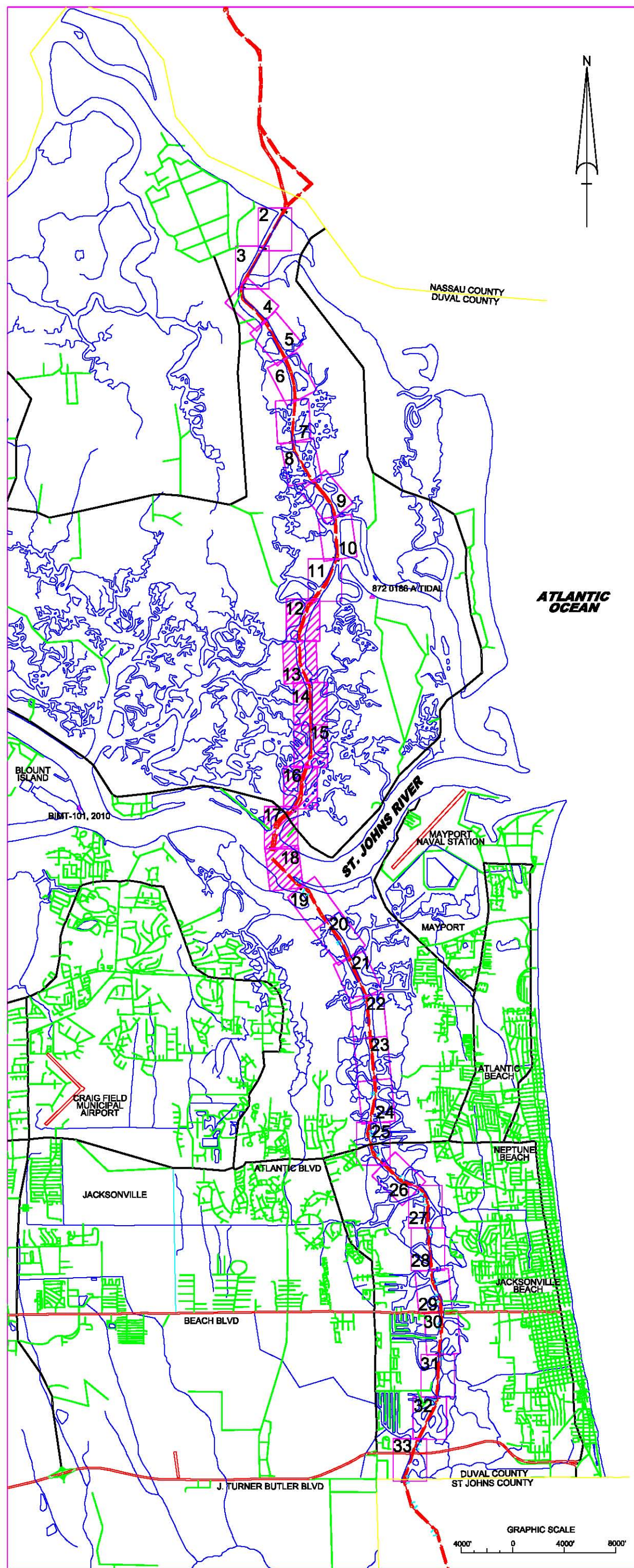


# ATLANTIC INTRACOASTAL WATERWAY FERNANDINA TO ST JOHNS RIVER 12-FOOT PROJECT CUT-1 THRU CUT-8 EXAMINATION SURVEY FY11



LEGEND	
• BM	BENCHMARK
⚓	LIGHTED BEACON
□	GREEN DAYBEACON
△	RED DAYBEACON
⦿	RED LIGHTED BUOY
⦿	GREEN LIGHTED BUOY
⦿	CAN BUOY
⦿	NUN BUOY
⊗	TIDE STAFF
8	PROJECT DEPTH

BENCHMARK	NAVD ELEV. (FT)
BIMT-101, 2010	12.00
872 0186 A TIDAL	4.58

### MAP NOTES:

- ON DWG 8/8, AN APPROXIMATE CENTERLINE WAS DRAWN BETWEEN STA. 0+00 OF AIWW CUT-1 AND STA. 0+00 CUT DU-1. THERE IS NO OFFICIAL CENTERLINE.
- MULTI-BEAM DATA WAS SORTED IN HYPACK USING A 30-FOOT RADIUS FROM THE SHOALEST SOUNDING.



### SURVEY NOTES:

- REFER TO SURVEY NO. 11-063.
- SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH USING VDATUM.
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS WITH A HYPACK KINEMATIC TIDE DATUM MODEL PRODUCED USING VDATUM.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- ALL AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.

8. SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS FOR POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

"REFERENCE BASE LOCATED AT "BIMT-101, 210"

NORTHING: 2,204,048.873'  
EASTING: 495,094.661'  
NAVD88 ELEVATION: 12.008'

"TIDE STAFF LOCATED AT "872 0186 A TIDAL"

MLLW ELEVATION: 11.20'  
NAVD88 ELEVATION: 8.22'

VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 4600 SWATH BATHYMETRY SYSTEM FREQUENCY 230 KHZ TRANSDUCER. CUT-14/15 JAX HARBOR WAS SURVEYED USING A RESON 8101 MULTI-BEAM TRANSDUCER OPERATING AT 240 KHZ. ALL DEPTHS SHOWN IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
WB-32	22 FEB 2011	CUT-1 THRU CUT-8
FLORIDA	15-17 NOV 2010	CUT 14/15 (JAX HARBOR)

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 STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.

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Jacksonville District  
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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

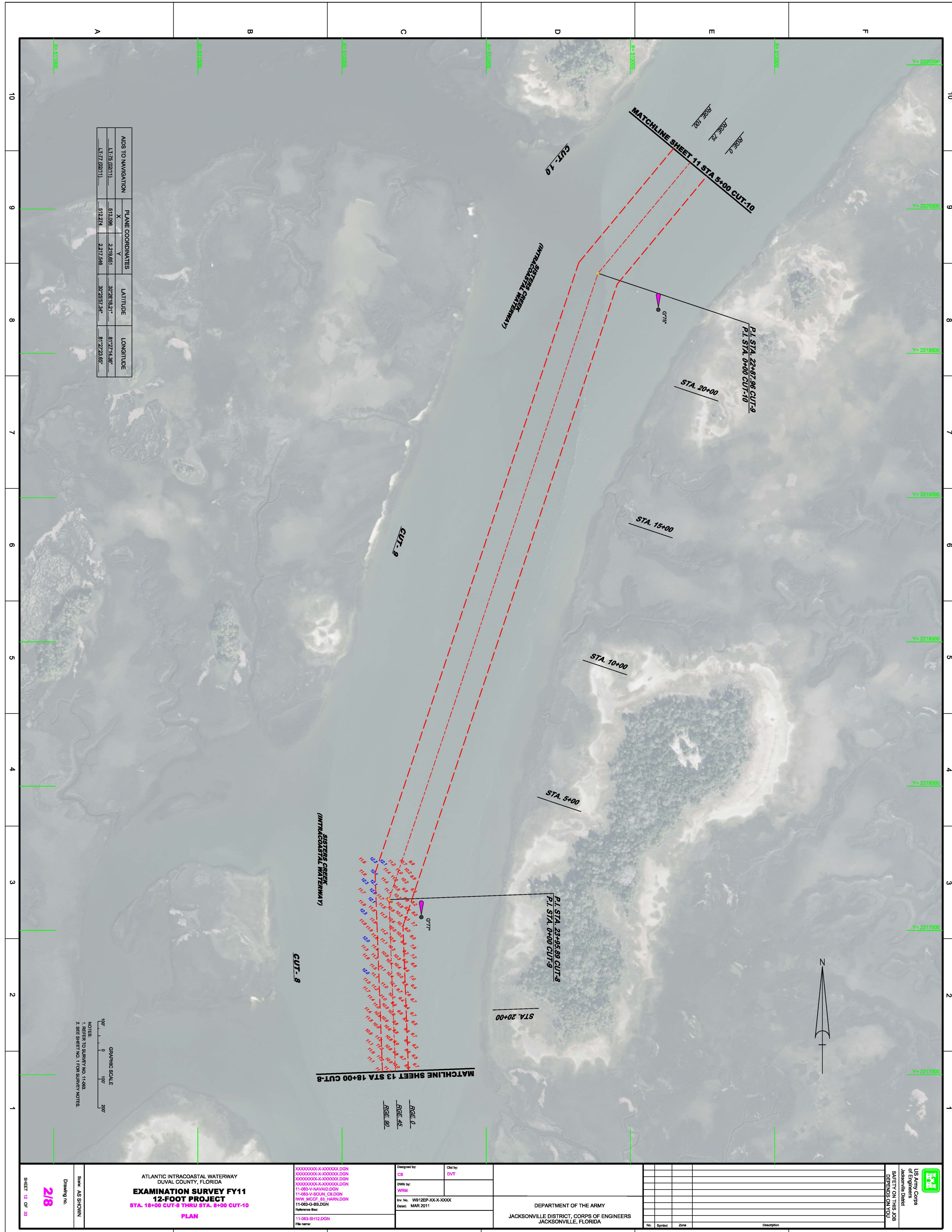
ATLANTIC INTRACOASTAL WATERWAY  
DUVAL COUNTY, FLORIDA  
EXAMINATION SURVEY FY11  
12-FOOT PROJECT  
INDEX, LOCATION AND VERTICAL  
PLAN

Scale: AS SHOWN  
Drawing no.  
**1/8**  
SHEET 01 OF 33



Y= 2220500  
Y= 2220000  
Y= 2219500  
Y= 2219000  
Y= 2218500  
Y= 2218000  
Y= 2217500  
Y= 2217000

10  
9  
8  
7  
6  
5  
4  
3  
2  
1



AIDS TO NAVIGATION		PLANE COORDINATES		LATITUDE	LONGITUDE
L176 (0211)	518,098	X	2,219,651	30°28'18.21"	81°27'14.88"
L177 (0211)	512,274	Y	2,217,446	30°25'57.34"	81°27'23.65"



NOTES:  
1. REFER TO SURVEY NO. 11-483  
2. REFER SHEET NO. 1 FOR SURVEY NOTES.

SISTERS CREEK  
(INTRACOASTAL WATERWAY)

CUT-10  
CUT-9  
CUT-8  
STA. 5+00  
STA. 10+00  
STA. 15+00  
STA. 20+00  
STA. 23+95.89 CUT-8  
P.I. STA. 0+00 CUT-8  
MATCHLINE SHEET 11 STA 5+00 CUT-10  
MATCHLINE SHEET 13 STA 18+00 CUT-8  
RGE. 0  
RGE. 45  
RGE. 90  
GTT\*



ATLANTIC INTRACOASTAL WATERWAY  
DUVAL COUNTY, FLORIDA  
**EXAMINATION SURVEY FY11  
12-FOOT PROJECT  
STA. 18+00 CUT-8 THRU STA. 8+00 CUT-10**  
**PLAN**

XXXXXXXXXX-K-XXXXXX.DGN  
XXXXXXXXXX-K-XXXXXX.DGN  
XXXXXXXXXX-K-XXXXXX.DGN  
XXXXXXXXXX-K-XXXXXX.DGN  
11-083-V-NAVAID.DGN  
11-083-V-SOUND\_CS.DGN  
HW-003-BS-HARN.DGN  
11-083-G-BS.DGN  
Reference file:  
11-083-SH12.DGN  
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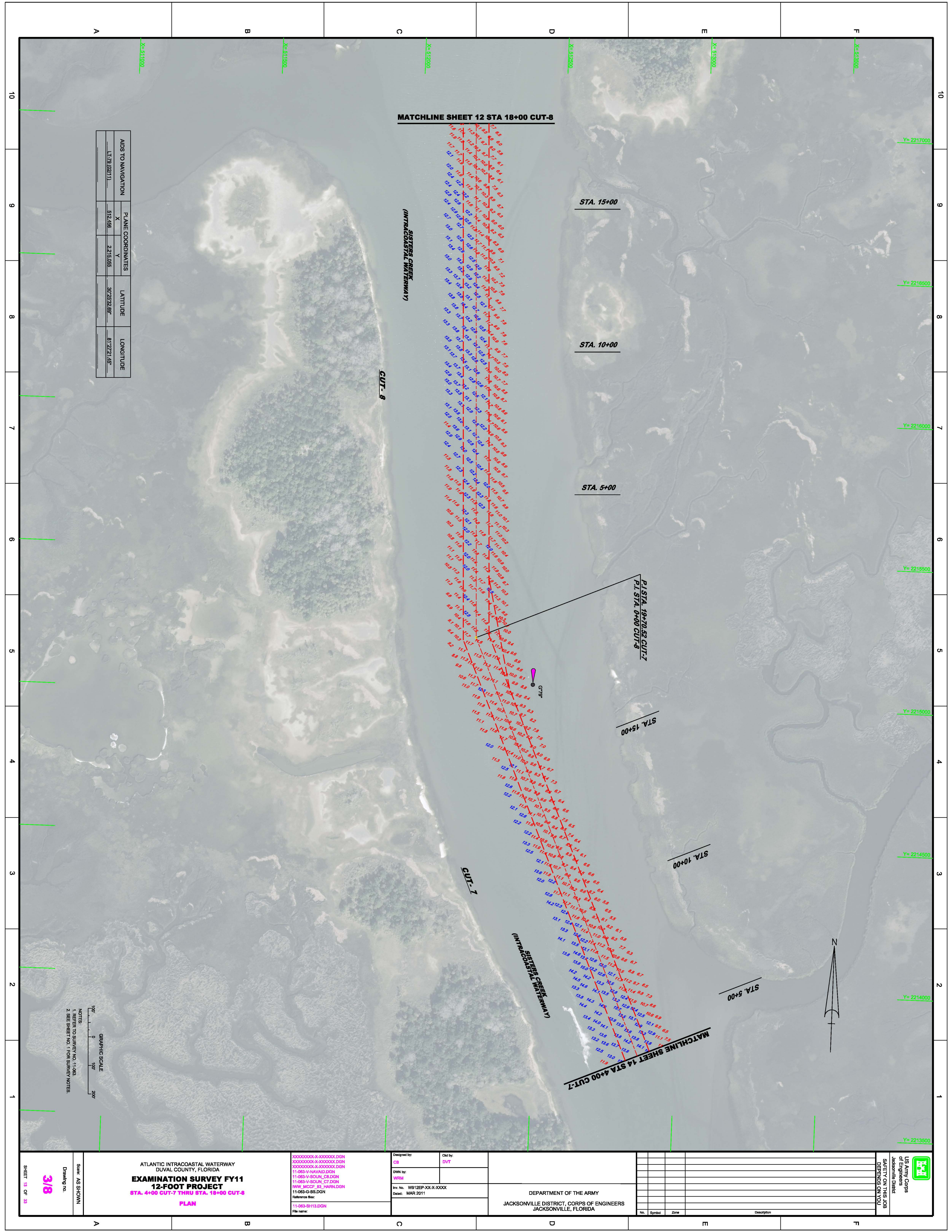
Designed by: CIB  
CIB  
DWN by: WRM  
WRM  
Inv. No: W912EP-XX-X-XXXX  
Date: MAR 2011  
Cld by: DVT  
DVT

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





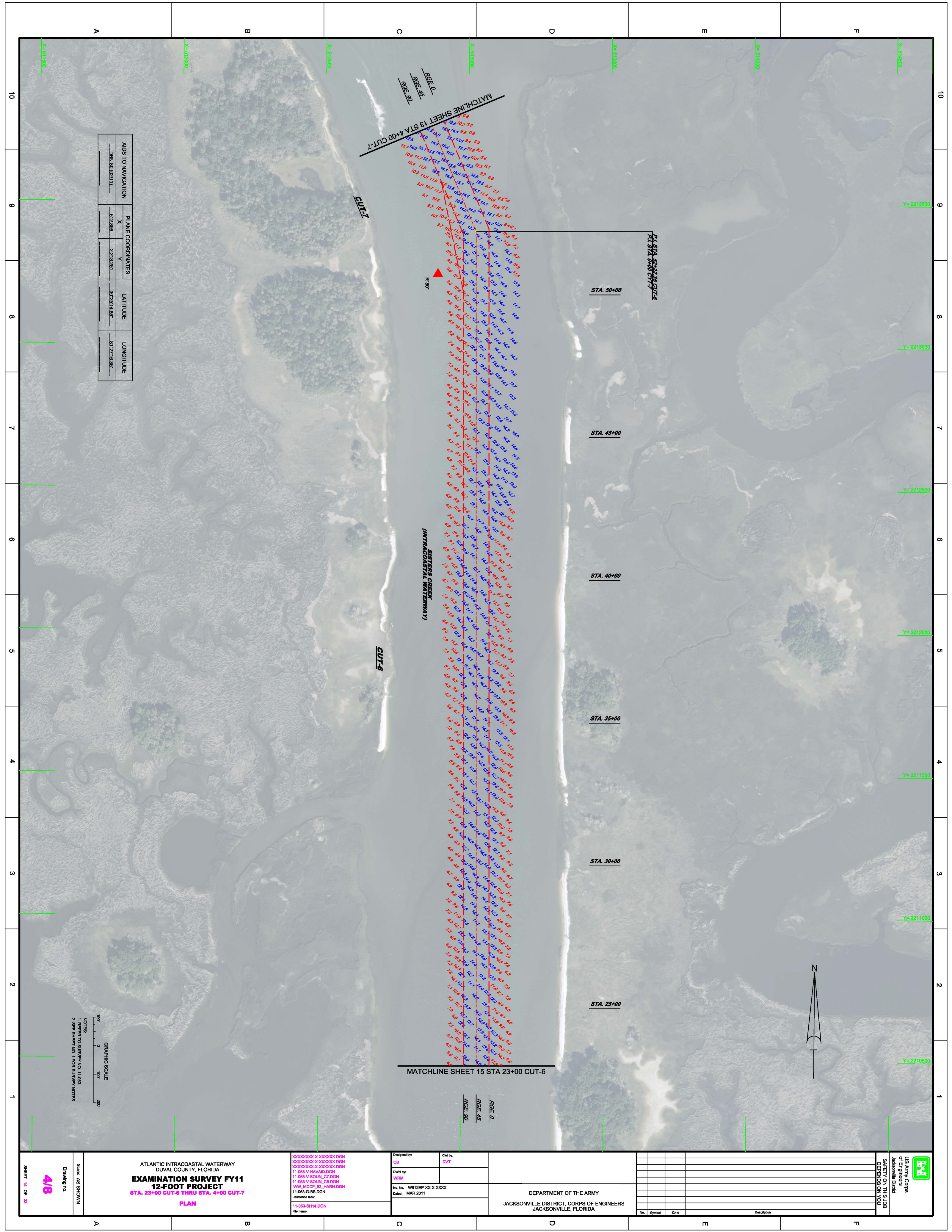
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-79 (02211)	512,456	2,215,055	30°25'32.89"	81°27'21.45"

GRAPHIC SCALE  
200'  
0  
100'

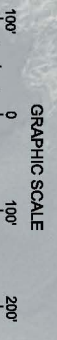
NOTES:  
1. REFER TO SURVEY NO. 11-083.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

ATLANTIC INTRACOASTAL WATERWAY DUVAL COUNTY, FLORIDA <b>EXAMINATION SURVEY FY11</b> <b>12-FOOT PROJECT</b> <b>STA. 4+00 CUT-7 THRU STA. 18+00 CUT-8</b> <b>PLAN</b>		XXXXXXXXXXXXXXXXXXXX.DGN XXXXXXXXXXXXXXXXXXXX.DGN XXXXXXXXXXXXXXXXXXXX.DGN 11-083-V-NAVID.DGN 11-083-V-SOUN_C8.DGN 11-083-V-SOUN_C7.DGN HWY MCFE 85 HAROLDGN 11-083-G-B8.DGN Reference file: 11-083-SH13.DGN File name:	Designed by: <b>CB</b>	Ckd by: <b>DVT</b>	DWN by: <b>WRM</b>	Inv. No. W912EP-XX-X-XXXX Date: MAR 2011	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	<table border="1"> <thead> <tr> <th>No.</th> <th>Symbol</th> <th>Zone</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Symbol	Zone	Description																	<table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>									US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU	
No.	Symbol	Zone	Description																																				





AIDS TO NAVIGATION		PLANE COORDINATES		LATITUDE	LONGITUDE
DBN-90 (02/11)		X	5172886	30°25'14.66"	81°27'16.35"
		Y	2213261		



NOTES:  
1. REFER TO SURVEY NO. 14-083.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MATCHLINE SHEET 13 STA 4+00 CUT-7  
 RGE. 0  
 RGE. 45  
 RGE. 90

MATCHLINE SHEET 15 STA 23+00 CUT-6  
 RGE. 0  
 RGE. 45  
 RGE. 90

SISTERS CREEK  
 (INTRACOASTAL WATERWAY)

CUT-7

CUT-6

STA. 50+00

STA. 45+00

STA. 40+00

STA. 35+00

STA. 30+00

STA. 25+00

P.I. STA. 52+22.35 CUT-6  
 P.I. STA. 0+00 CUT-7

R=90'



ATLANTIC INTRACOASTAL WATERWAY  
 DUVAL COUNTY, FLORIDA  
**EXAMINATION SURVEY FY11**  
**12-FOOT PROJECT**  
**STA. 23+00 CUT-6 THRU STA. 4+00 CUT-7**  
**PLAN**

XXXXXXXX-XXXXXX.DGN  
 XXXXXXXX-XXXXXX.DGN  
 XXXXXXXX-XXXXXX.DGN  
 11-083-V-NAVAID.DGN  
 11-083-V-SOUN\_C7.DGN  
 11-083-V-SOUN\_C8.DGN  
 11-083-G-B8.DGN  
 11-083-G-B8.DGN  
 Reference file:  
 11-083-SH14.DGN  
 File name:

Designed by: CB  
 DWT  
 DWN by: WRM  
 Rev. No. W912EP-XX-XXXX  
 Date: MAR 2011

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

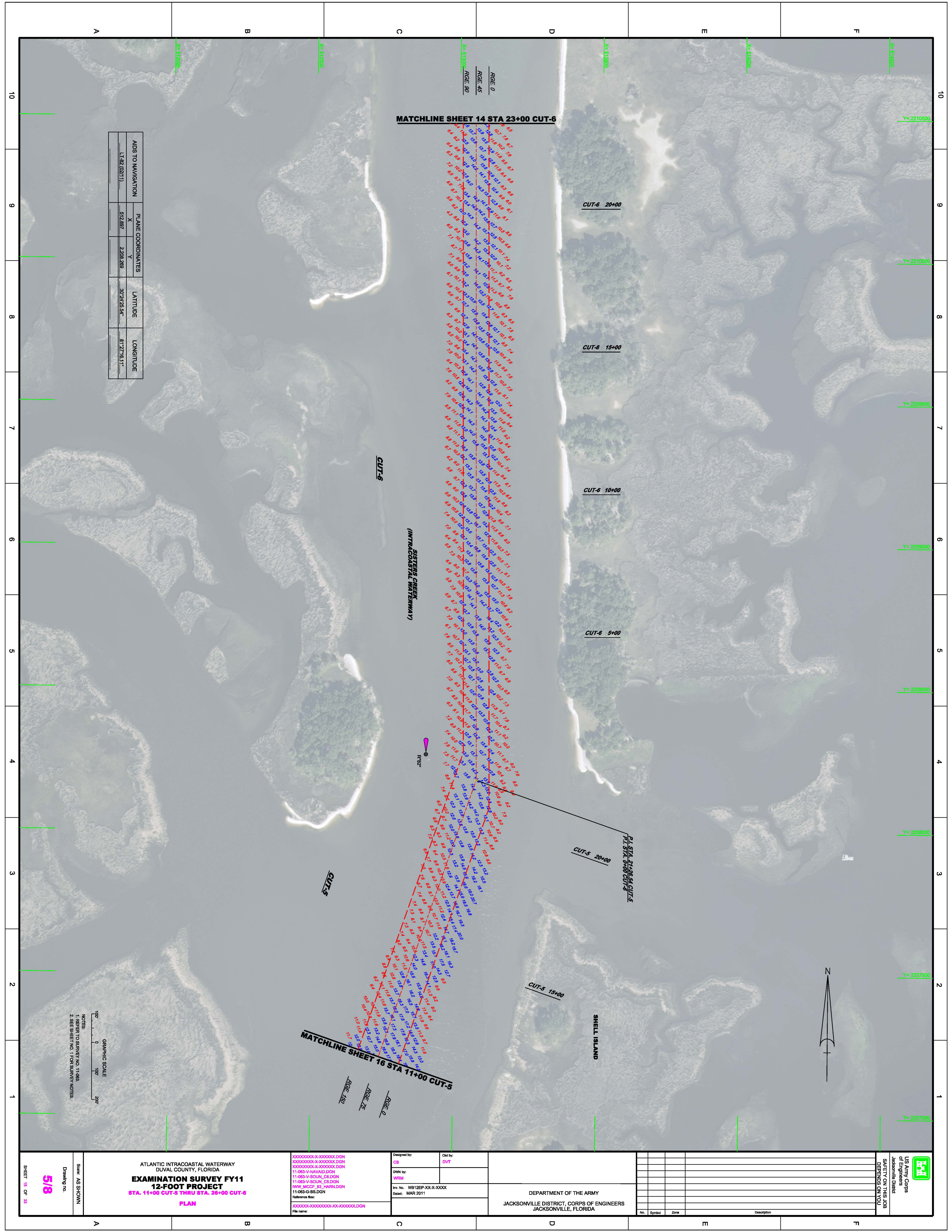
No.	Symbol	Zone	Description

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

**4/8**

SHEET 14 OF 23





AIDS TO NAVIGATION		PLANE COORDINATES		LATITUDE	LONGITUDE
	LT-92 (0211)	X	Y		
		512,897	2,208,489	30°24'25.54"	81°27'16.11"

MATCHLINE SHEET 14 STA 23+00 CUT-6

SISTERS CREEK  
(INTRACOASTAL WATERWAY)

CUT-6 20+00

CUT-6 15+00

CUT-6 10+00

CUT-6 5+00

PL STA 21+28.54 CUT-5  
PI STA 0+00 CUT-8

CUT-5 20+00

CUT-5 15+00

SHELL ISLAND

MATCHLINE SHEET 16 STA 11+00 CUT-5

RGE 0  
RGE 25  
RGE 182

RGE 25

RGE 0

GRAPHIC SCALE  
1" = 200'

NOTES:  
1. REFER TO SURVEY NO. 11-033.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

ATLANTIC INTRACOASTAL WATERWAY  
DUVAL COUNTY, FLORIDA  
**EXAMINATION SURVEY FY11  
12-FOOT PROJECT**  
STA. 11+00 CUT-5 THRU STA. 26+00 CUT-6  
**PLAN**

XXXXXXXXXX-DGN  
XXXXXXXXXX-DGN  
XXXXXXXXXX-DGN  
11-033-V-NAVAID.DGN  
11-033-V-SOUN\_C6.DGN  
11-033-V-SOUN\_C5.DGN  
HW/MCCF-83-HARLDGN  
11-033-G-BB.DGN  
Reference file:  
XXXXXXXXXX-DGN

Designed by: CB	Clad by: DVT
DWN by: WRM	
Inv. No. W912EP-XX-X-XXXX	
Date: MAR 2011	

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

No.	Symbol	Zone	Description

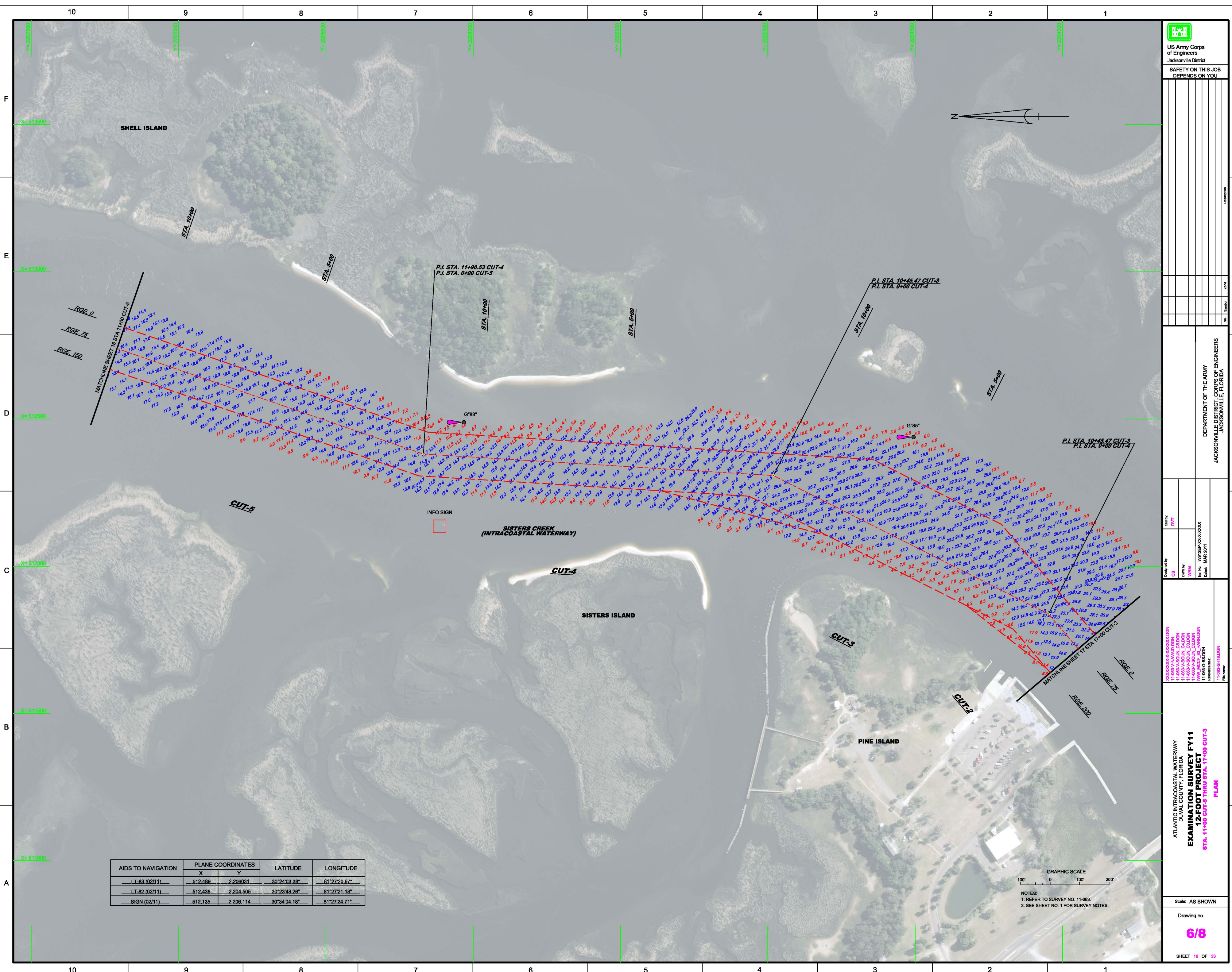
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5/8

Drawing no.  
Scale AS SHOWN

SHEET 18 OF 28





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Jacksonville District  
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DEPENDS ON YOU

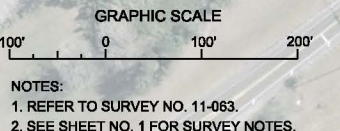
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

Designed by: **DVT**  
Drawn by: **WRM**  
For No. **WJ22EP-00-000**  
Date: **MAR 2011**

ATLANTIC INTRACOASTAL WATERWAY  
DUAL COUNTY, FLORIDA  
**EXAMINATION SURVEY FY11  
12-FOOT PROJECT**  
**STA. 11+00 CUT-5 THRU STA. 17+00 CUT-3**  
**PLAN**

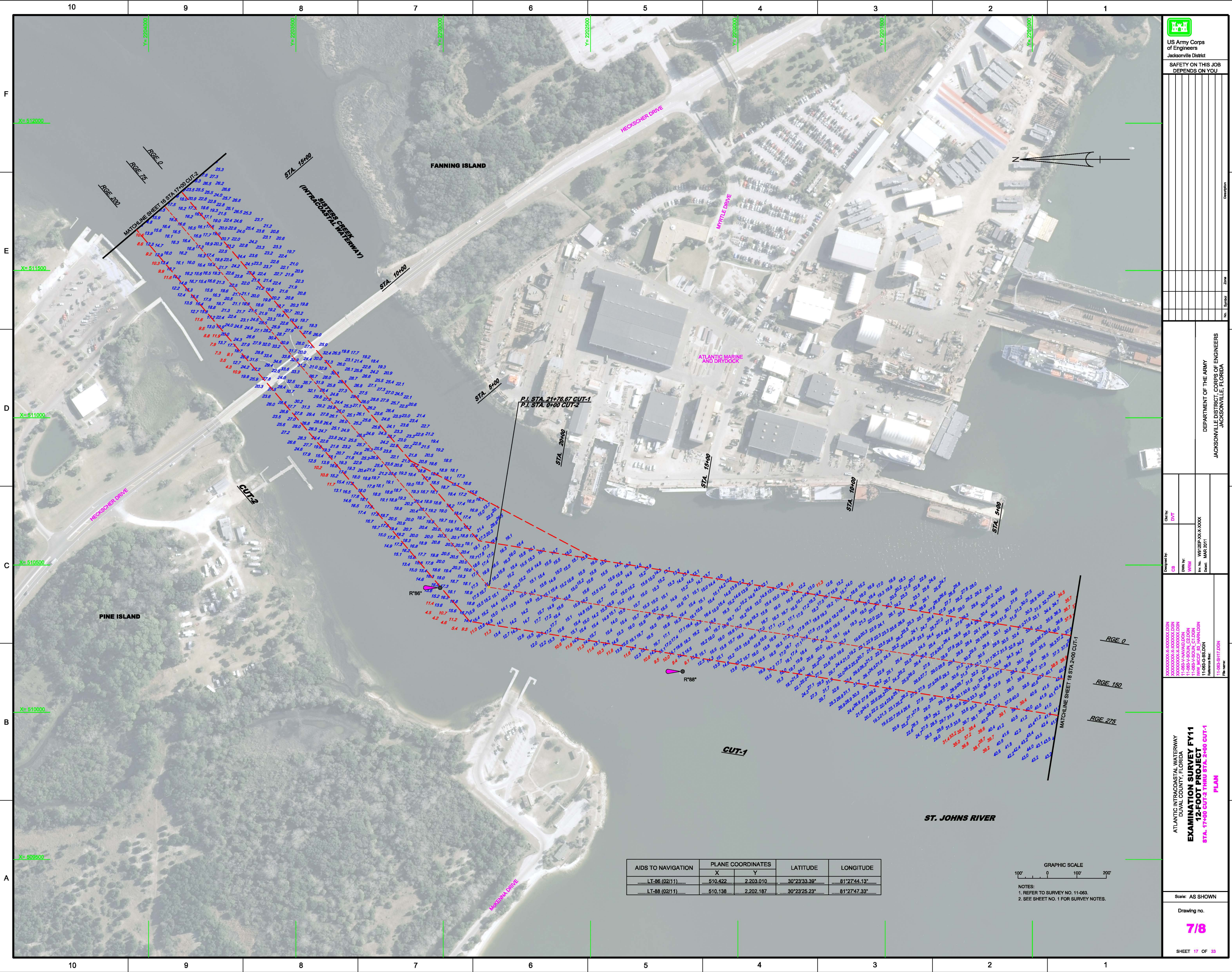
Scale: AS SHOWN  
Drawing no. **6/8**  
SHEET 16 OF 33

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-83 (02/11)	512,489	2,206,031	30°24'03.38"	81°27'20.67"
LT-82 (02/11)	512,438	2,204,505	30°23'48.26"	81°27'21.18"
SIGN (02/11)	512,135	2,206,114	30°34'04.18"	81°27'24.71"

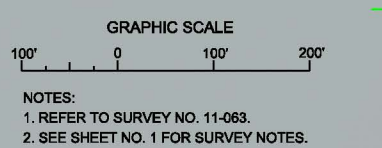


NOTES:  
1. REFER TO SURVEY NO. 11-083.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.





AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-86 (02/11)	510,422	2,203,010	30°23'33.38"	81°27'44.13"
LT-88 (02/11)	510,138	2,202,187	30°23'25.23"	81°27'47.33"



US Army Corps of Engineers  
Jacksonville District

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DEPENDS ON YOU

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DESIGNED BY: CB  
DRAWN BY: WRM  
CHECKED BY: WRM  
DATE: MAR 2011

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

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PROJECT: ATLANTIC INTRACOASTAL WATERWAY  
DUVAL COUNTY, FLORIDA  
EXAMINATION SURVEY FY11  
12-FOOT PROJECT  
STA. 17+00 CUT-2 THRU STA. 2+00 CUT-1

PLAN

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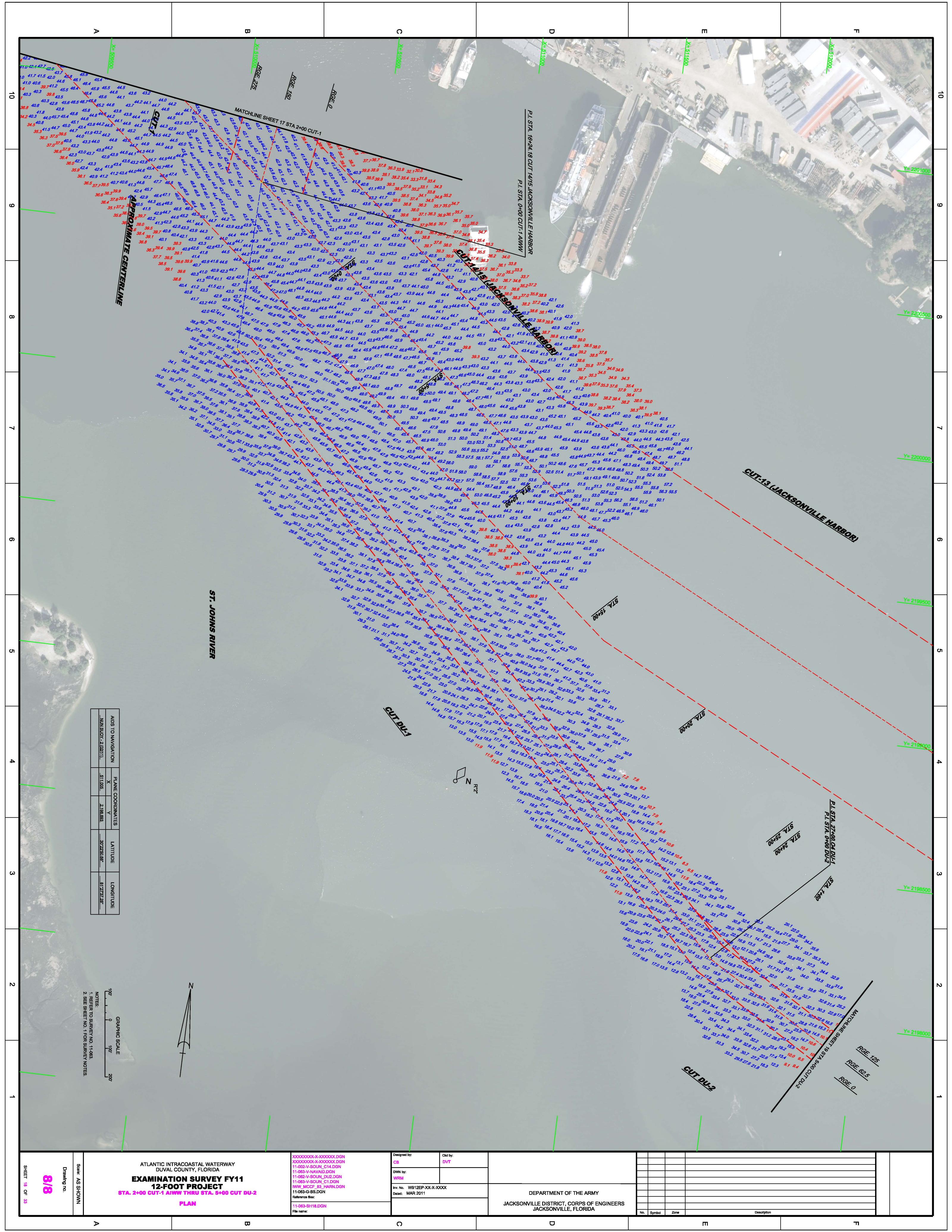
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Drawing no. **7/8**

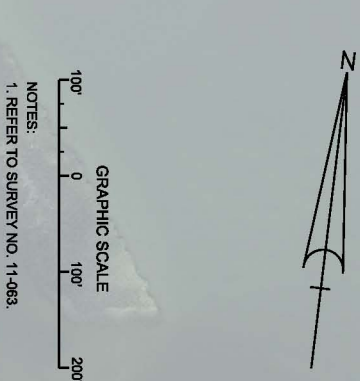
SHEET 17 OF 33

FILE NAME: 11-063-S117.DGN





COORDINATE	X	Y
PLANE COORDINATES	5118056	2198883
LATITUDE	30°27'52.98"	
LONGITUDE		81°27'32.28"



ATLANTIC INTRACOASTAL WATERWAY DUVAL COUNTY, FLORIDA <b>EXAMINATION SURVEY FY11          12-FOOT PROJECT</b> <b>STA. 2+00 CUT-1 AIWW THRU STA. 5+00 CUT-DU-2</b> <b>PLAN</b>	XXXXXXXXX-K-XXXXXX.DGN XXXXXXXXX-K-XXXXXX.DGN 11-003-V-SOUN-D14.DGN 11-003-V-NAVID.DGN 11-003-V-SOUN-DU2.DGN 11-003-V-SOUN-C1.DGN 11-003-V-SOUN-C2.DGN 11-003-G-BSD.DGN Reference file: 11-003-SH18.DGN File name:	Designed by: <b>CB</b>	Cld by: <b>DVT</b>	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA																								
		DWN by: <b>WRM</b>	Inv No: <b>W912EP-XXX-XXXX</b>		Date: <b>MAR 2011</b>																							
Drawing no: <b>8/8</b> Sheet: <b>AS-SHOWN</b>	<table border="1"> <thead> <tr> <th>No.</th> <th>Symbol</th> <th>Zone</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				No.	Symbol	Zone	Description																				
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