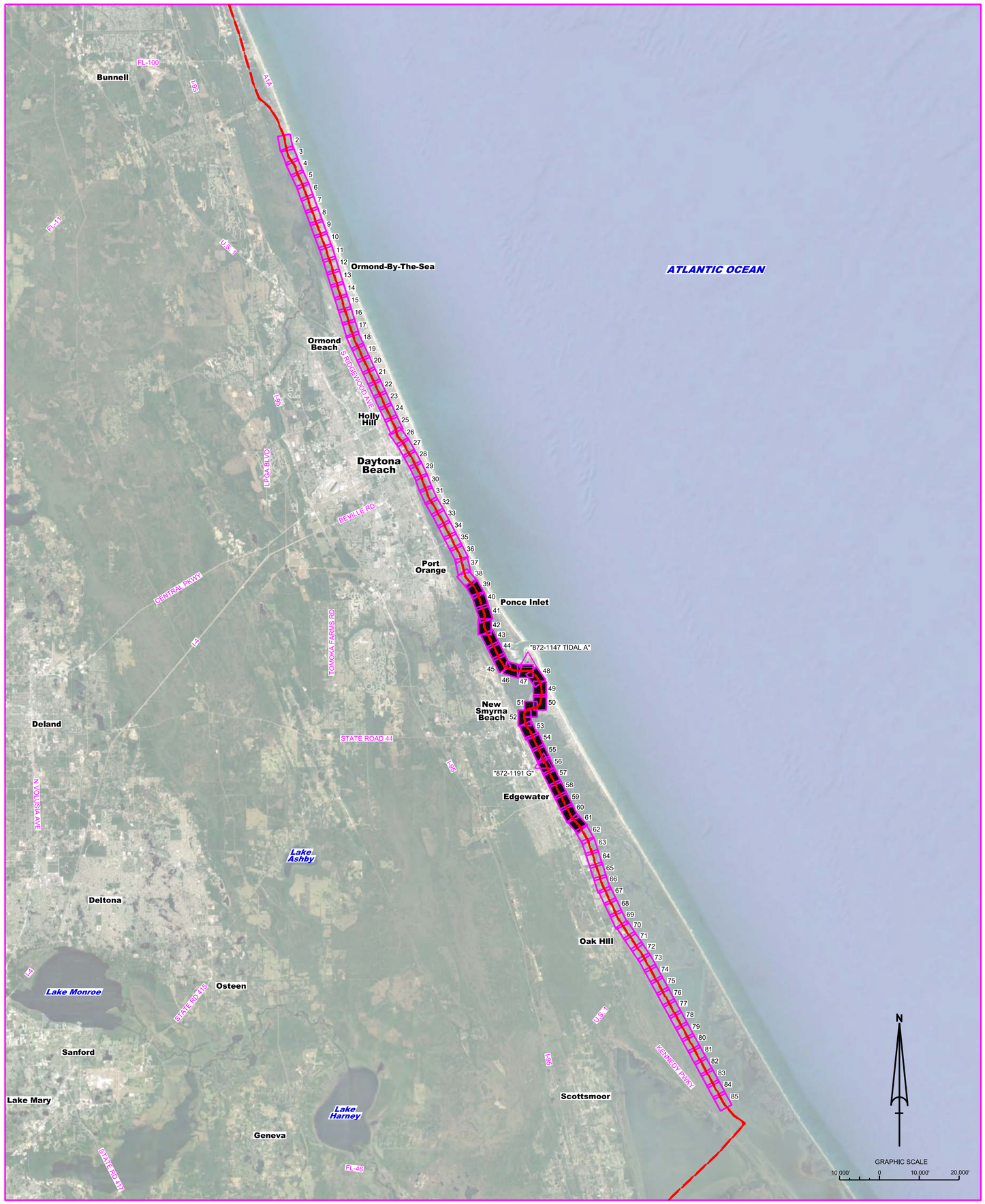
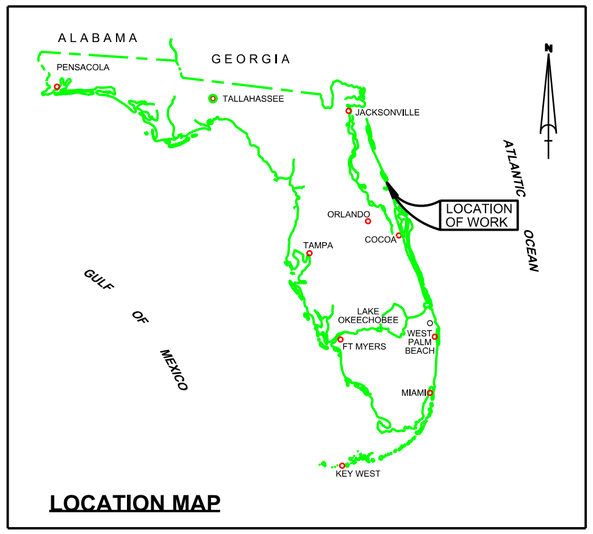




LOCATION MAP

IWW - VOLUSIA COUNTY
CUTS V-22 THRU V-40
HYDROGRAPHIC EXAM SURVEY FY17
12-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 17-099.
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 HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "VOLUSIA-BREVARD (W-O_CANAVERALHBR_2016 05 06.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 LOCATIONS:

   REFERENCE BASE LOCATED AT "872-1147 TIDAL A" FOR CUTS V-22 THRU V-35 (OPUS PID: DK6692, NGS PID: DK6692)
   TIDE STAFF SET FROM "872-1147 TIDAL 1" (NGS PID: AQ1522)

   REFERENCE BASE LOCATED AT "872-1191 G" FOR CUTS V-36 THRU V-40 (OPUS PID: DK6693, NGS PID: DK6693)
   TIDE STAFF SET FROM "872-1191 G" (NGS PID: DK6693)
8. 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 872-1147 USED FOR CUTS V-22 THRU V-35

   NOAA TIDAL STATION 872-1191 USED FOR CUTS V-36 THRU V-40

   VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER MODEL 835 WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDCUER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-46	02 MAY 2017	V-25, V-26, V-27
SB-46	03 MAY 2017	V-24
SB-46	04 MAY 2017	V-37, V-38
SB-46	05 MAY 2017	V-36, V-39, V-40
SB-46	10 MAY 2017	V-22, V-23
SB-46	23 MAY 2017	V-28 THRU V-35

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: CJBR
Designed by: WRM
DWN by: WRM
Proj. No. V913EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
T-099-NURDEX_VOL.DGN
IWW-CANGMCEF.DGN
T-099-CABBRDR_VOL.DGN
Reference files:
T-099-VH-001_VOL.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

INDEX, LOCATION AND VICINITY

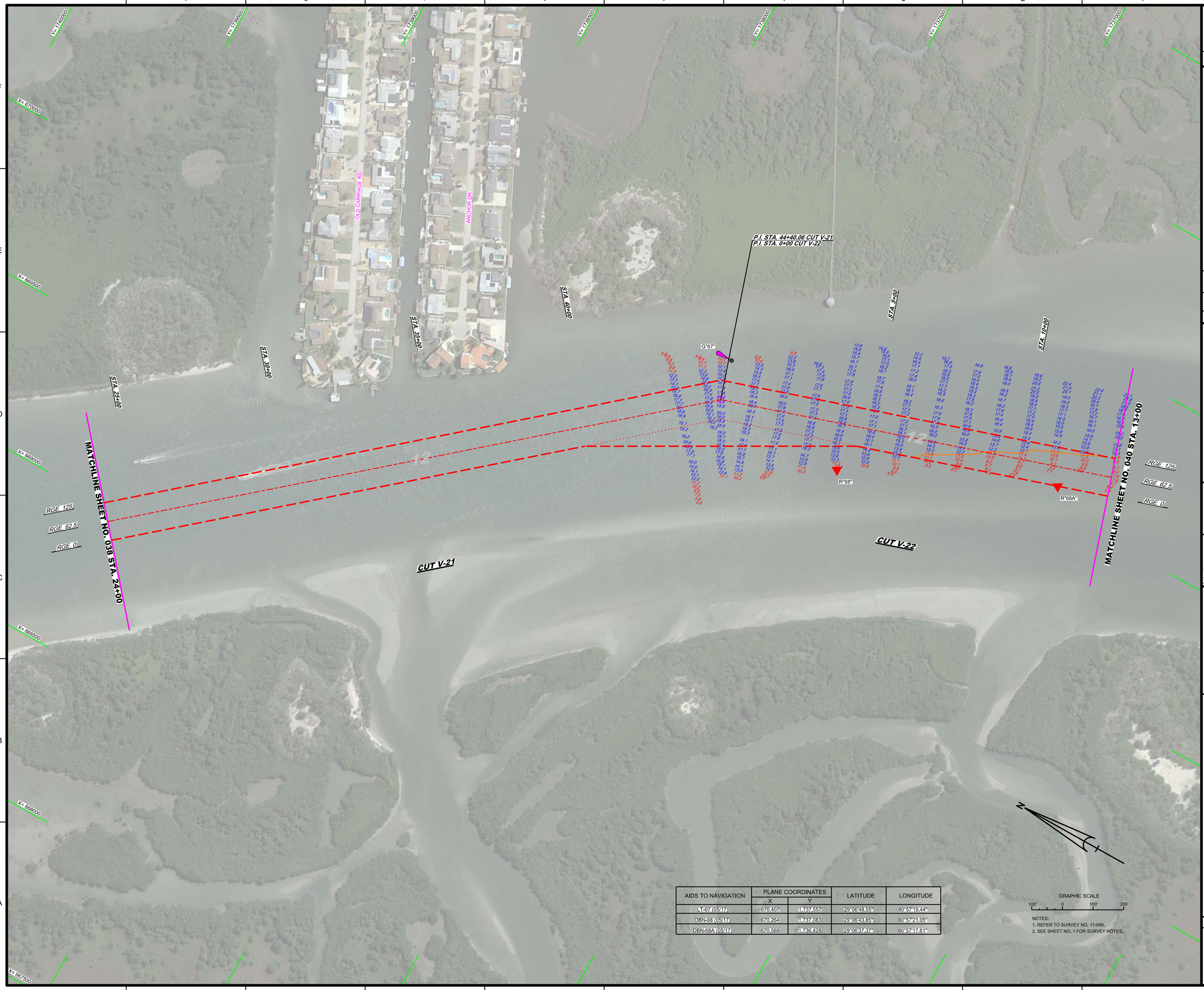
MAP

Scale: AS SHOWN

Drawing no.

1 / 24

SHEET 01 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-67 (05/17)	670,407	1,737,557	29°06'48.55"	80°57'19.44"
DBN-68 (05/17)	670,264	1,737,083	29°06'43.85"	80°57'21.05"
DBN-68A (05/17)	670,569	1,736,428	29°06'37.37"	80°57'17.61"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Cad by: GMR
Prj. No. W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-GCN12.DGN
17-099-AAV1.DGN
17-099-NASUN_V22.DGN
IWW-CNGMCCF.DGN
17-099-CABS-BRGR_V0.DGN
Reference files:
17-099-VH-039_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 24+00 CUT V-21 THRU STA. 13+00 CUT V-22

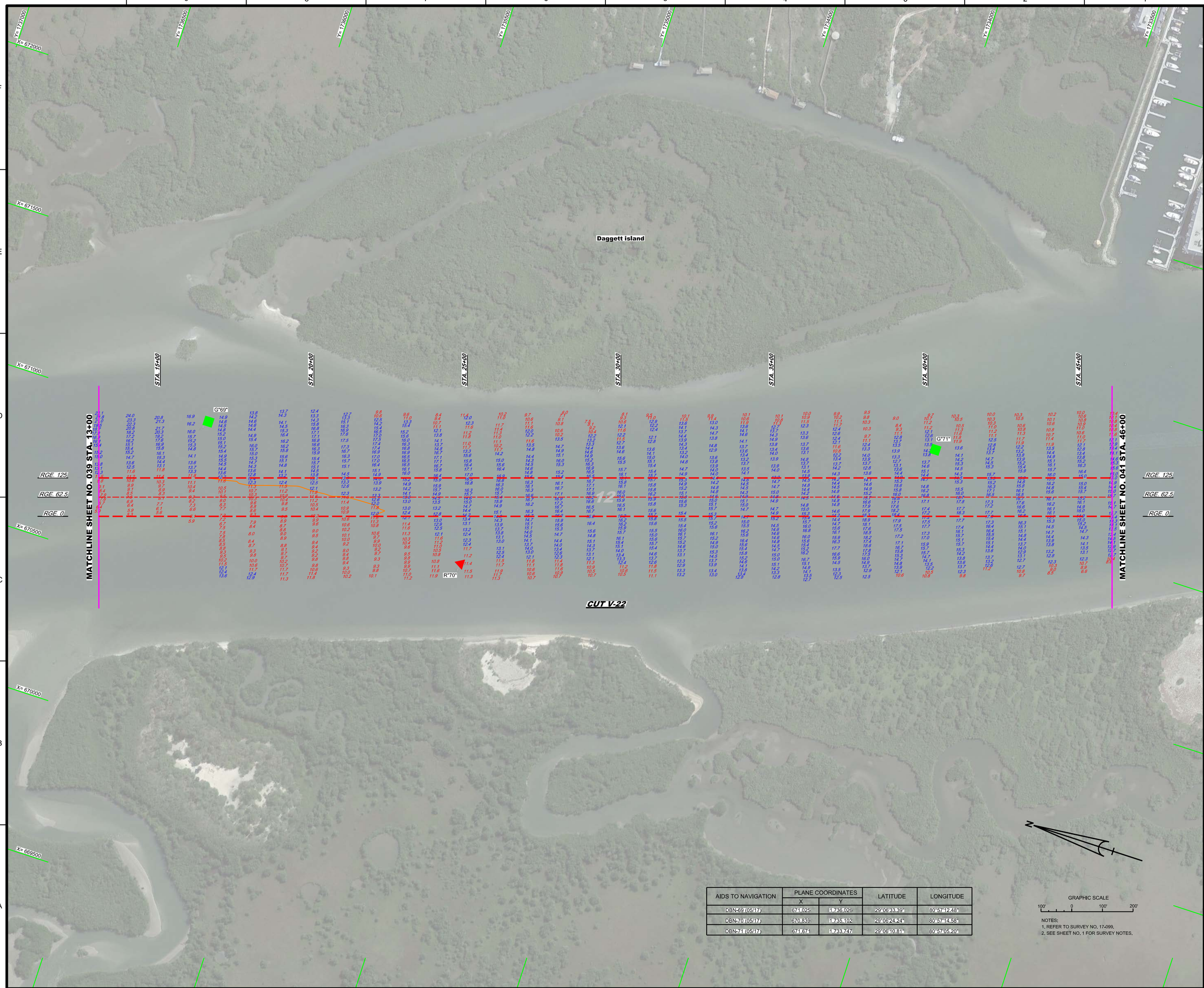
PLAN

Scale: AS SHOWN

Drawing no.

2 / 24

SHEET 39 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-69 (05/17)	671,025	1,736,026	29°06'33.39"	80°57'12.48"
DBN-70 (05/17)	670,839	1,735,102	29°06'24.24"	80°57'14.58"
DBN-71 (05/17)	671,671	1,733,747	29°06'10.81"	80°57'05.20"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Chart by: CMR

Designed by: WRM
DWN by: WRM
Rev. No. V9125EP-XXX-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099A-CON12.DGN
17-099A-SOUN1.DGN
17-099A-SOUN1_V02.DGN
IWW-C-NGMCCF.DGN
17-099A-DESIGNDR_V02.DGN
Reference files:
17-099VHD40_V02.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 13+00 THRU STA. 46+00 CUT V-22

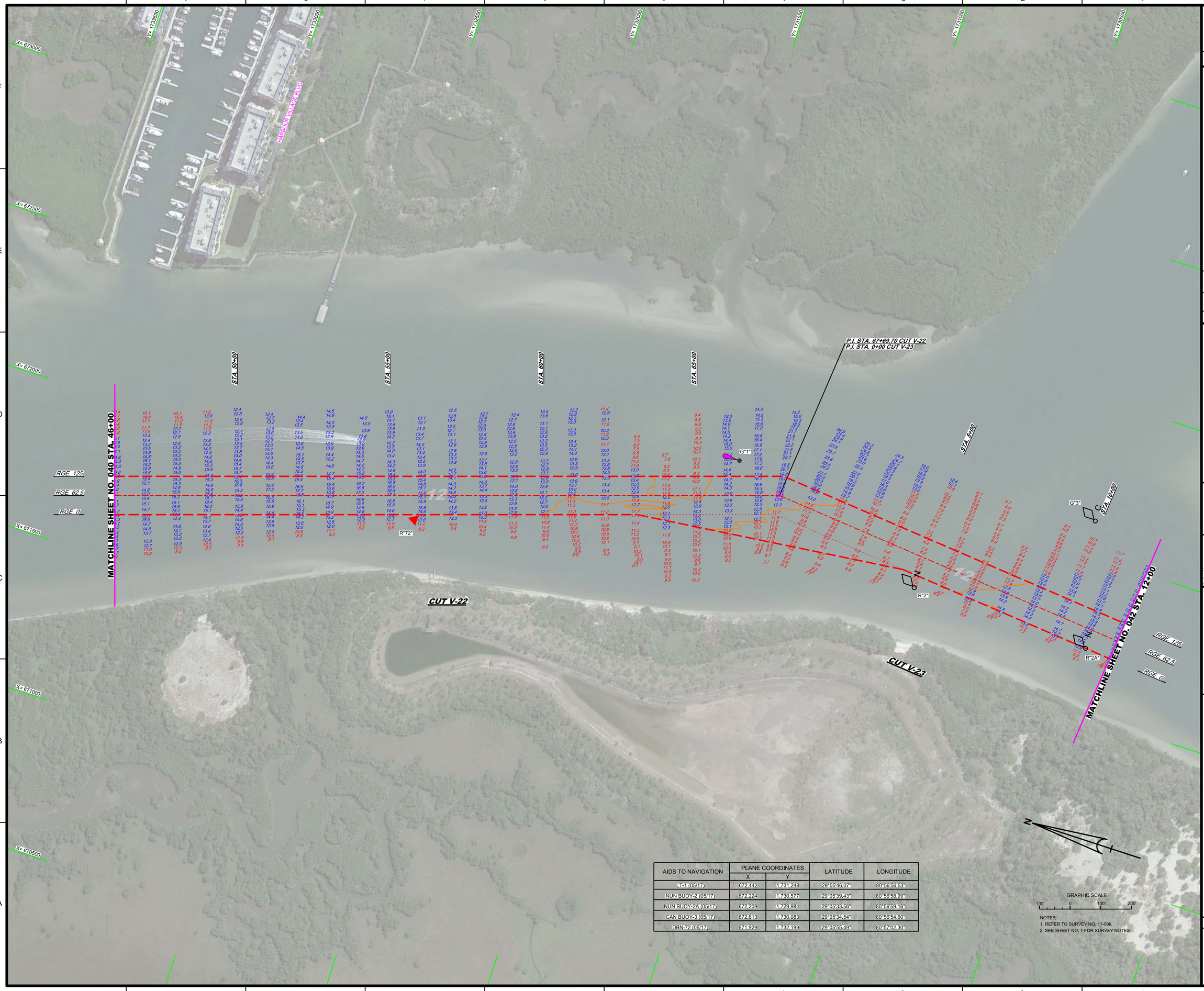
PLAN

Scale: AS SHOWN

Drawing no.

3 / 24

SHEET 40 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-1 (05/17)	672,442	1,731,248	29°05'46.07"	80°56'56.53"
NUN BUOY-2 (05/17)	672,224	1,730,577	29°05'39.43"	80°56'58.99"
NUN BUOY-2A (05/17)	672,209	1,729,984	29°05'33.56"	80°56'59.16"
CAN BUOY-3 (05/17)	672,613	1,730,083	29°05'34.54"	80°56'54.60"
DBN-72 (05/17)	671,929	1,732,199	29°05'55.49"	80°57'02.30"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Drawn by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V9912EP-XX-X-XXXX
Date: MAY 2017

17-099-XX-X-XXXX-V0.DGN
XXXXXXXXX-X-XXXXXXXX.DGN
17-099-V-CONTOUR.DGN
17-099-V-MAN.DGN
17-099-V-SOUN_V22.DGN
17-099-V-SOUN_V23.DGN
IWW-CNG/MCCF.DGN
17-099-H-SB-BRDR_V0.DGN
Reference files:
17-099-VH041_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 46+00 CUT V-22 THRU STA. 12+00 CUT V-23

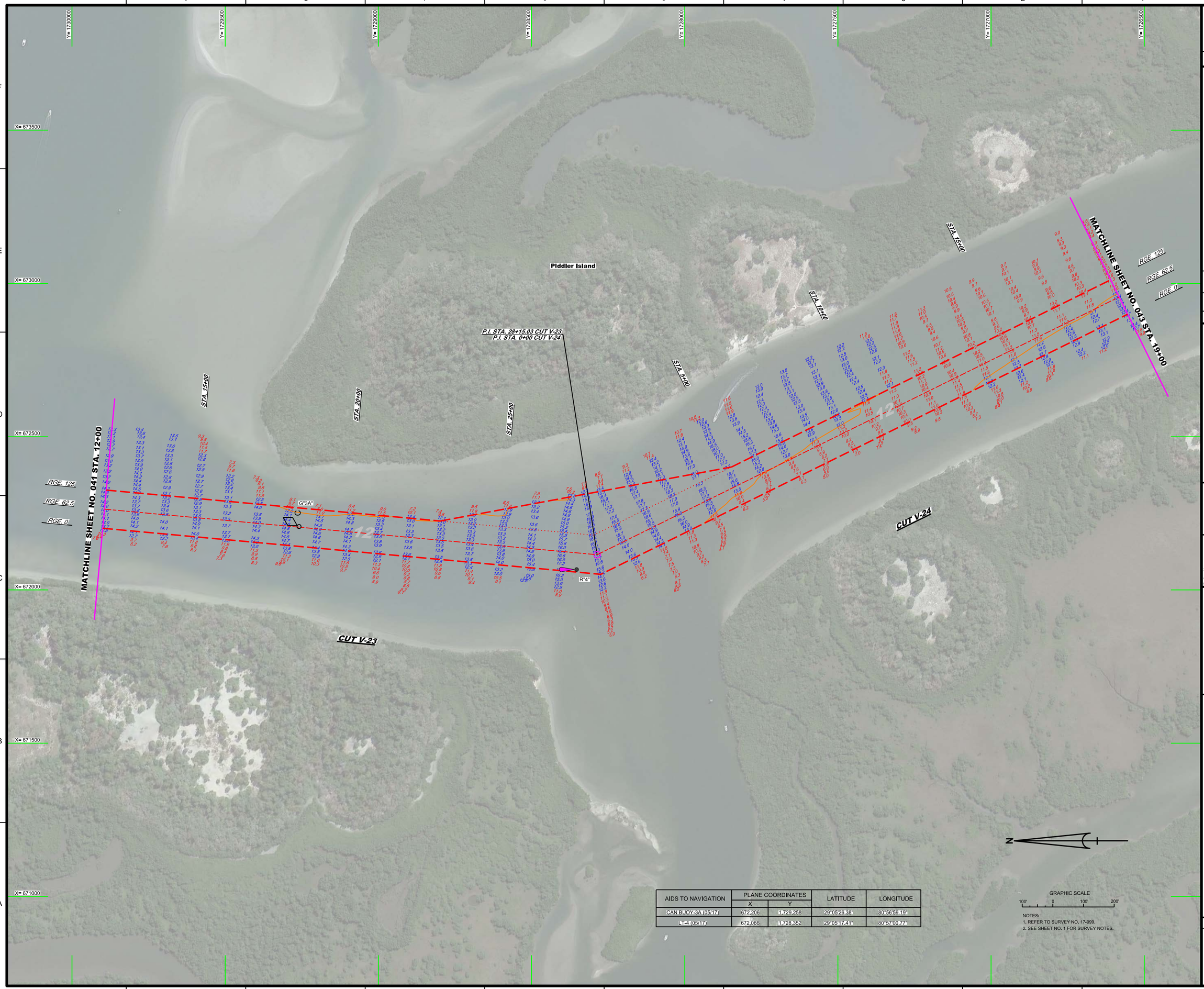
PLAN

Scale: AS SHOWN

Drawing no.

4 / 24

SHEET 41 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-3A (05/17)	672,206	1,729,258	29°05'26.38"	80°56'59.19"
LT-4 (05/17)	672,066	1,728,352	29°05'17.41"	80°57'00.77"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Ckd by: GMR
Proj. No.: V0312EP-XX-XX-XXX
Date: MAY 2017

X:\XXXXXXX-X-XXXX-X.DGN
XXXXXXXXX-XXXXXXXX.DGN
17-099-XX-CON12.DGN
17-099-XX-NAV.DGN
17-099-XX-SOUN_V23.DGN
17-099-XX-SOUN_V24.DGN
IWW-C-CNGMCF.DGN
17-099-C-BR-BRDR_V0.DGN
Reference files
17-099-XR-H42_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 12+00 CUT V-23 THRU STA. 19+00 CUT V-24

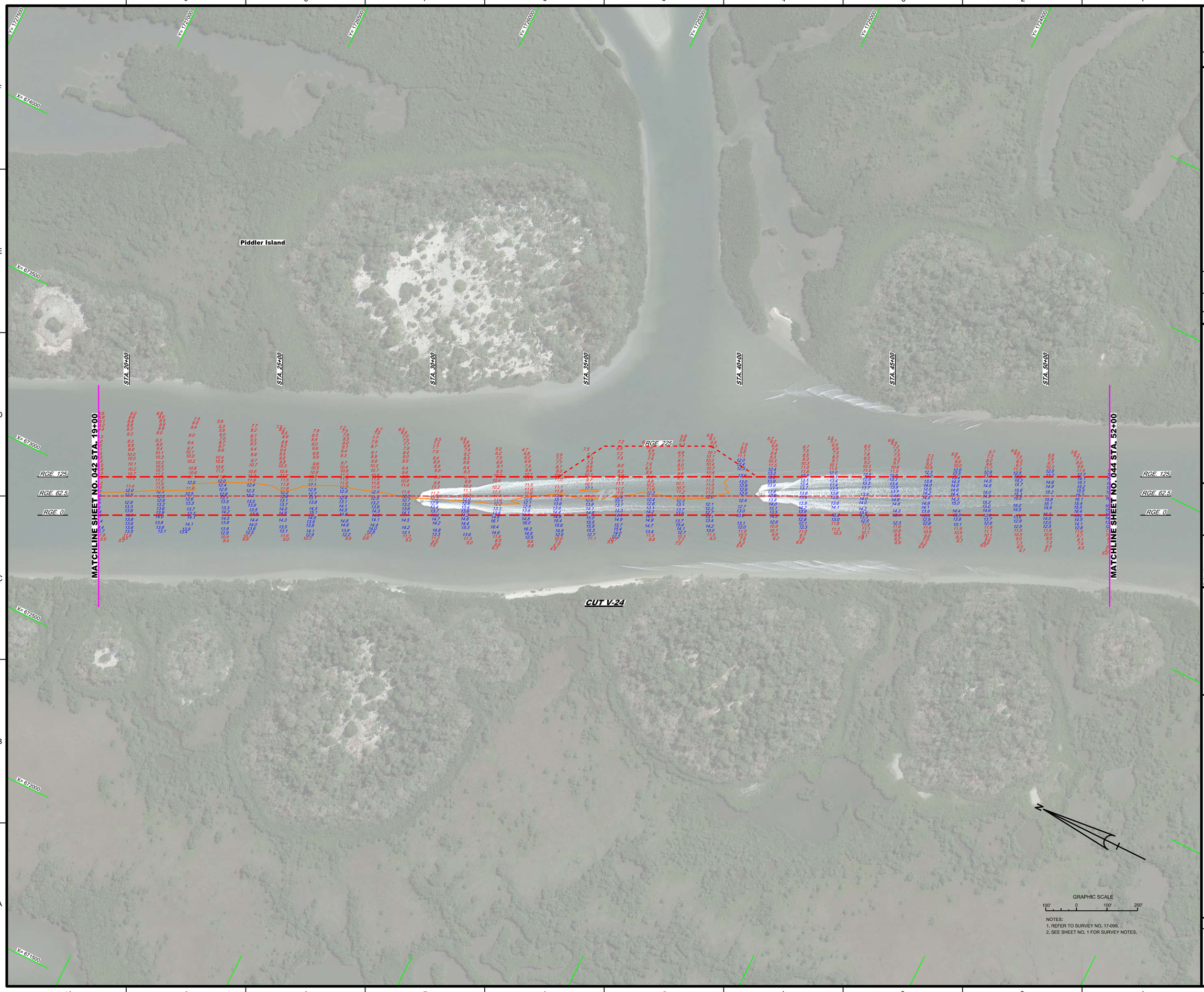
PLAN

Scale: AS SHOWN

Drawing no.

5 / 24

SHEET 42 OF 85



NOTES:
1. REFER TO SURVEY NO. 17-099.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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: WRM
DWN by: WRM
Ckd by: GMR
Rev. No.: V9125EP-XXX-XXXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-VSUN_V-VALIGN
IWW-C-NGMCCF.DGN
17-099-V-BS-BRDR_VO.DGN
Reference files:
17-099-VH-343_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT
STA. 19+00 THRU STA. 52+00 CUT V-24
PLAN

Scale: AS SHOWN

Drawing no.
6 / 24

SHEET 43 OF 85

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Ckd by: GMR
Rev. No.: W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-CONTOURS.DGN
17-099-H-SOUN_V-ALI.DGN
IWW-C-NGMCCF.DGN
17-099-H-SB-BRDR_VO.DGN
Reference files:
17-099-VH-H_VO.DGN
Title name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 52+00 THRU STA. 85+00 CUT V-24

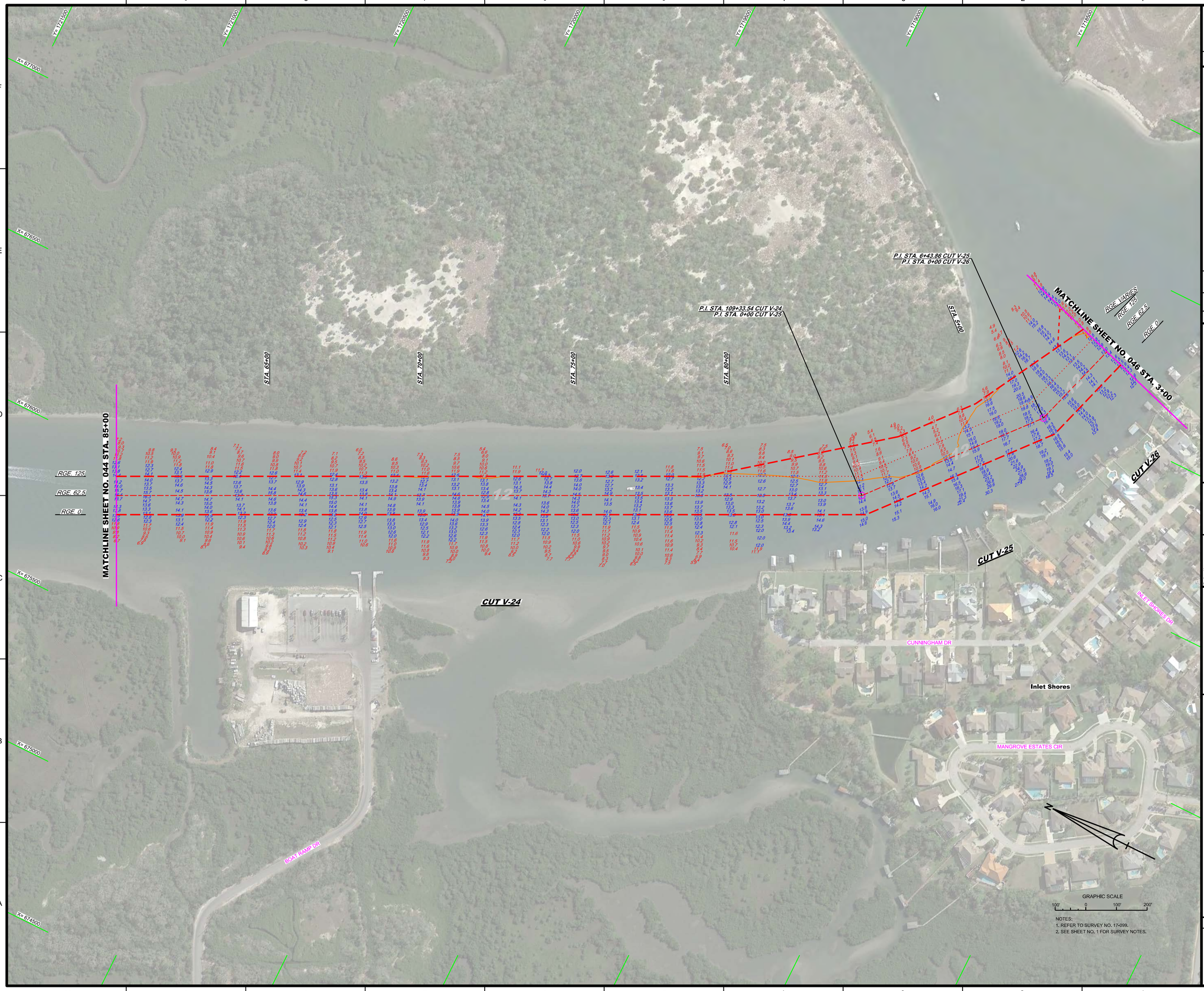
PLAN

Scale: AS SHOWN

Drawing no.

7 / 24

SHEET 44 OF 85



NOTES:
1. REFER TO SURVEY NO. 17-099.
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: MRM
DWN by: MRM
Ckd by: GMR
Proj. No.: V6312EP-XX-XX-XXX
Date: MAY 2017

X:\V6312EP-XX-XX-XXX\
XXXXXXXXX-XXXXXXXX.DGN
17-099-H-CON1.DGN
17-099A-SOUL_V24.DGN
17-099A-SOUL_V25.DGN
17-099A-SOUL_V26.DGN
IWV-C-CNGMCF.DGN
17-099-C-B-BRDR_V0.DGN
Reference files
17-099-HR485_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 85+00 CUT V-24 THRU STA. 3+00 CUT V-26

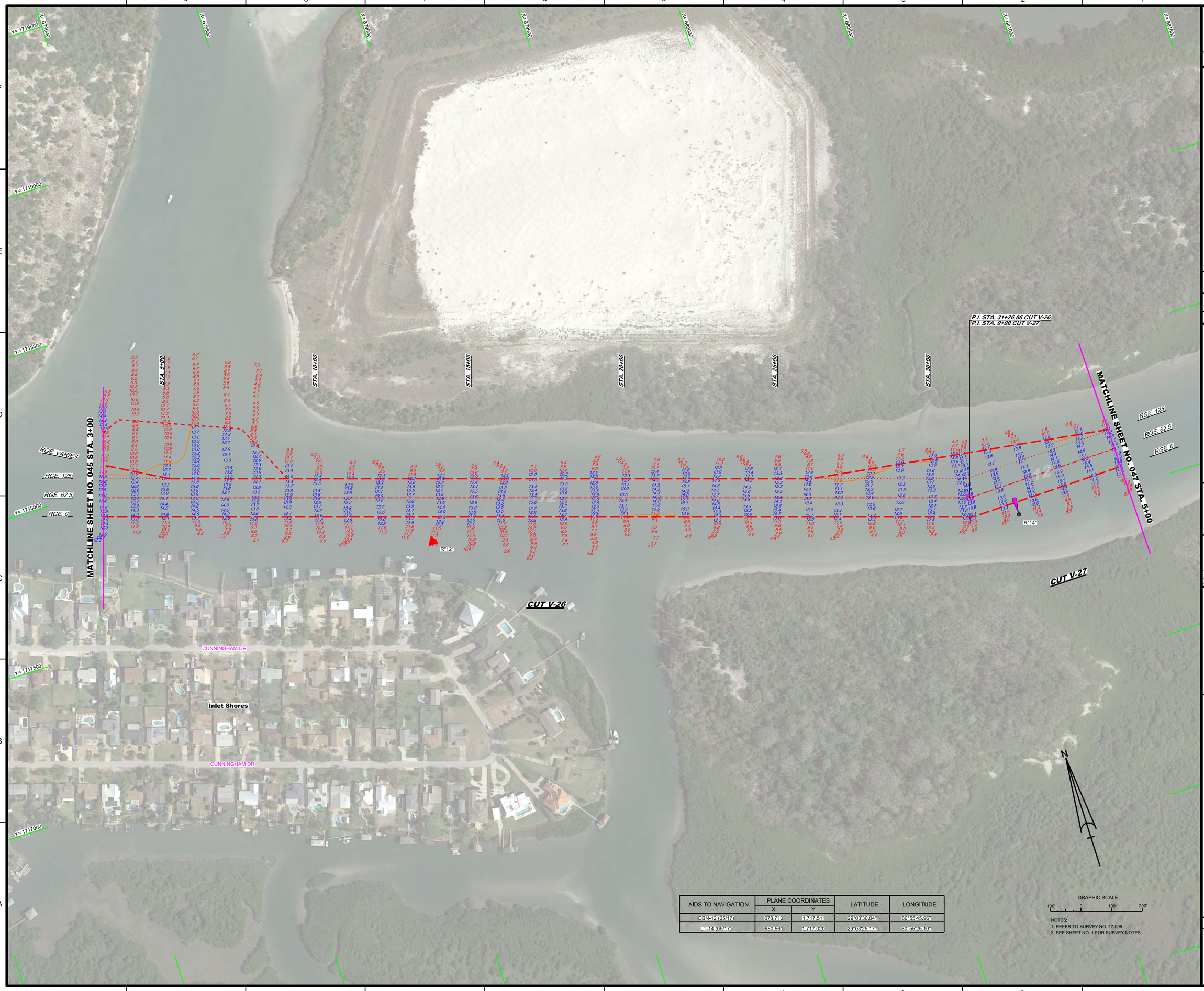
PLAN

Scale: AS SHOWN

Drawing no.

8 / 24

SHEET 45 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-12 (05/17)	678,710	1,717,511	29°03'30.04"	80°55'45.96"
LT-14 (05/17)	680,561	1,717,020	29°03'25.17"	80°55'25.10"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: VRM
Dwn by: VRM
Ckd by: GMR
Inv. No.: W912EP-XX-C-XXXX
Dated: MAY 2017

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
17-099A-CONT12.DGN
17-099A-NAV.DGN
17-099A-SOUN_V26.DGN
17-099A-SOUN_V27.DGN
IWW-C-NGMCF.DGN
17-099A-CBS-BRBR_V0.DGN
Reference files
17-099A-FH-046_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 3+00 CUT V-26 THRU STA. 5+00 CUT V-27

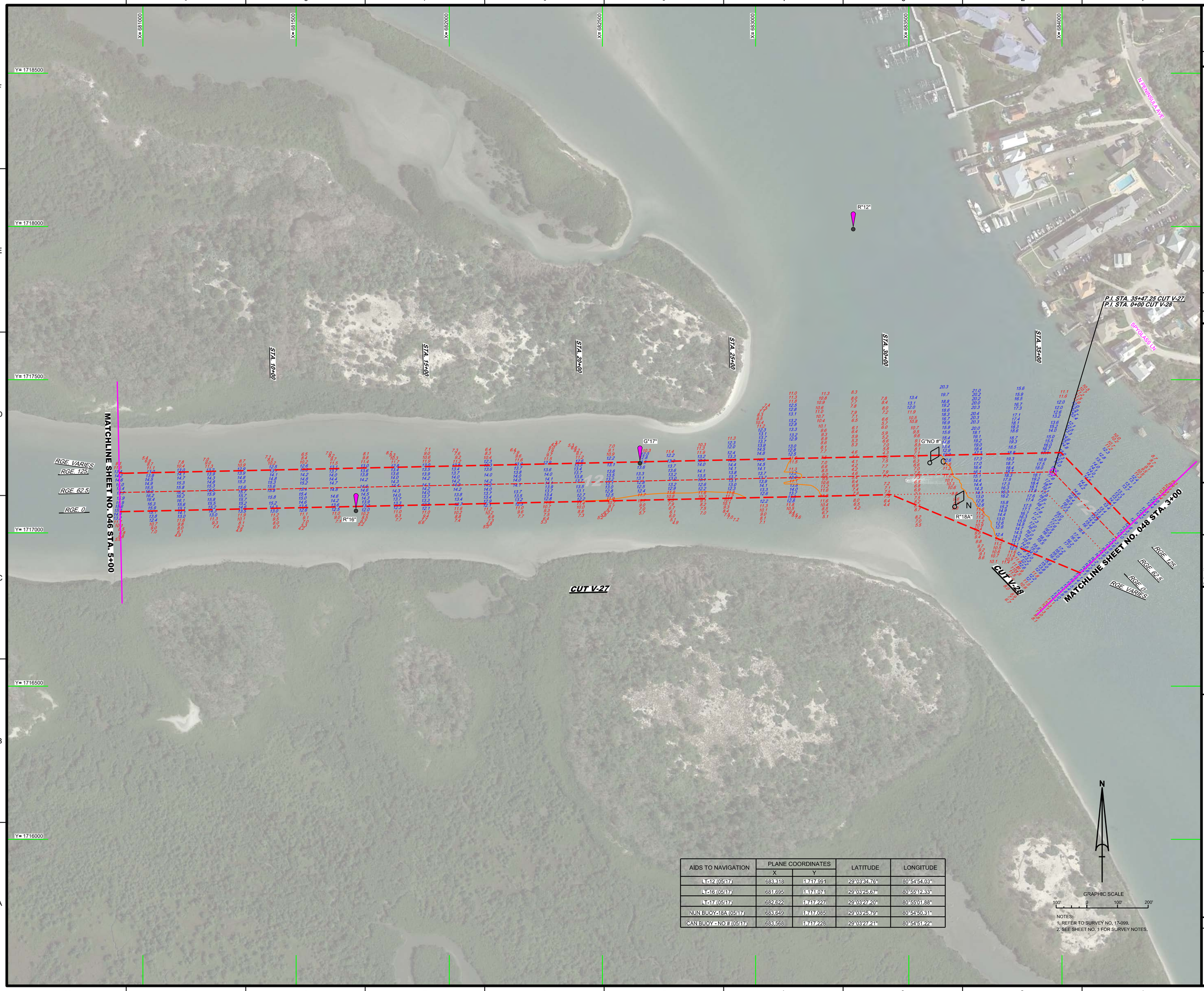
PLAN

Scale: AS SHOWN

Drawing no.

9 / 24

SHEET 46 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-12 (05/17)	683,318	1,717,991	29°03'34.76"	80°54'54.03"
LT-16 (05/17)	681,695	1,171,071	29°03'25.67"	80°55'12.33"
LT-17 (05/17)	682,622	1,717,227	29°03'27.20"	80°55'01.88"
NUN BUOY-18A (05/17)	683,649	1,717,085	29°03'25.79"	80°54'50.31"
CAN BUOY - NO # (05/17)	683,568	1,717,228	29°03'27.21"	80°54'51.22"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Cad by: CMR
Designed by: WRM
DWN by: WRM
Rev. No. V9123EP-XX-X-XXXX
Date: MAY 2017

V:\XXXXXXXX-X-XXXX-XX.DGN
XXXXXXXXX-X-XXXXXXXX.DGN
17-099-V-CONT-01.DGN
17-099-V-NAV.DGN
17-099-V-SOUN_V27.DGN
17-099-V-SOUN_V28.DGN
IWW-CNG/MCCF.DGN
17-099-PES-BRDR_V0.DGN
Reference files:
17-099-VH-047_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 5+00 CUT V-27 THRU STA. 3+00 CUT V-28

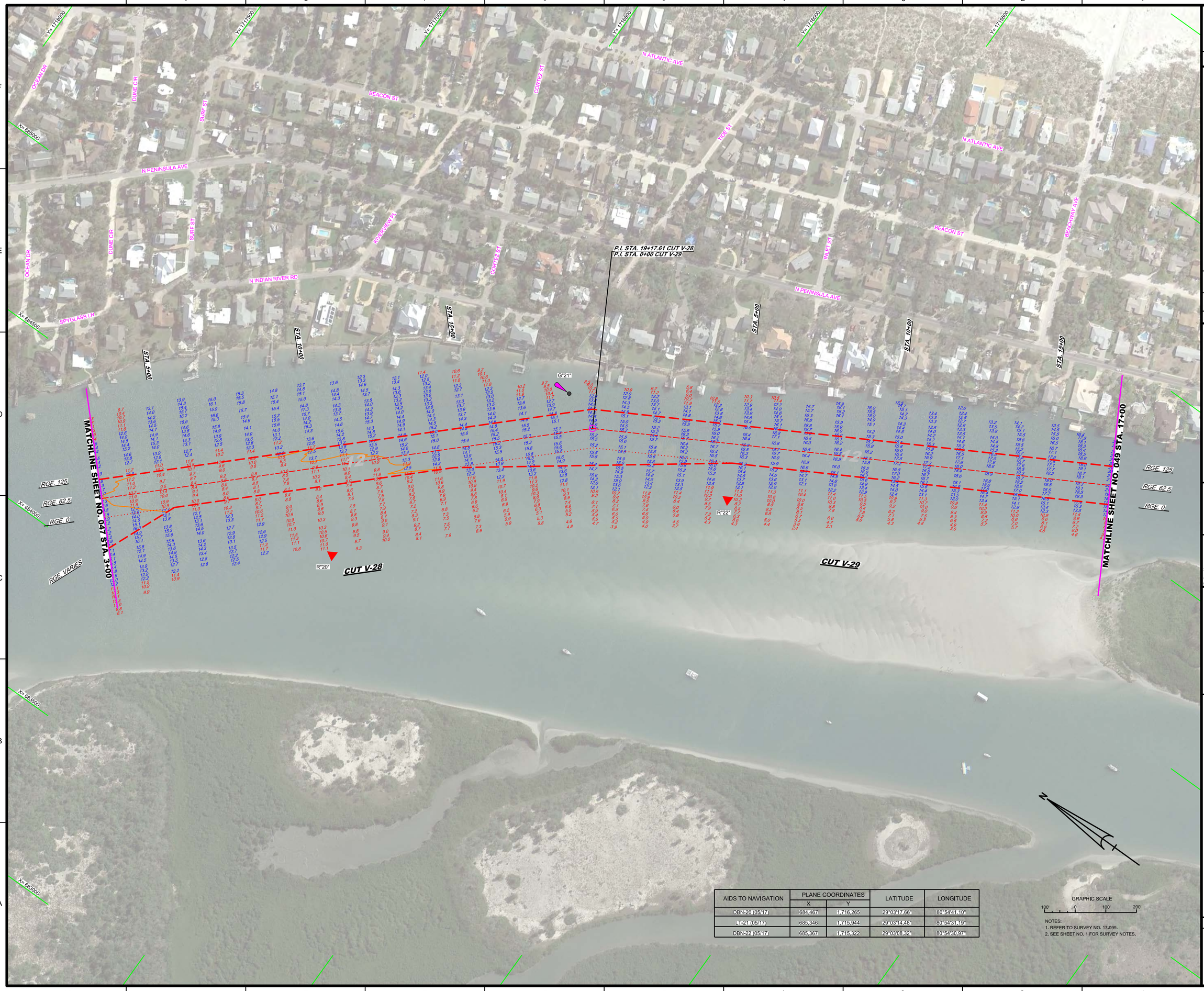
PLAN

Scale: AS SHOWN

Drawing no.

10 / 24

SHEET 47 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-20 (05/17)	684,467	1,716,265	29°03'17.66"	80°54'41.10"
LT-21 (05/17)	685,346	1,715,944	29°03'14.48"	80°54'31.19"
DBN-22 (05/17)	685,367	1,715,322	29°03'08.32"	80°54'30.97"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Chk by: GMR
Rev. No.: W912EP-XX-X-XXXX
Date: MAY 2017

XX-XX-XX-XX-XX-XX-VO.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-VCCONT1.DGN
17-099-NAV.DGN
17-099-NAV-SOUN.DGN
17-099-SOUN.DGN
17-099-SOUN_VO.DGN
IWW-C-NGIMCCF.DGN
17-099-C-ESHBRDR_VO.DGN
Reference files:
17-099-VH34B_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 3+00 CUT V-28 THRU STA. 17+00 CUT V-29

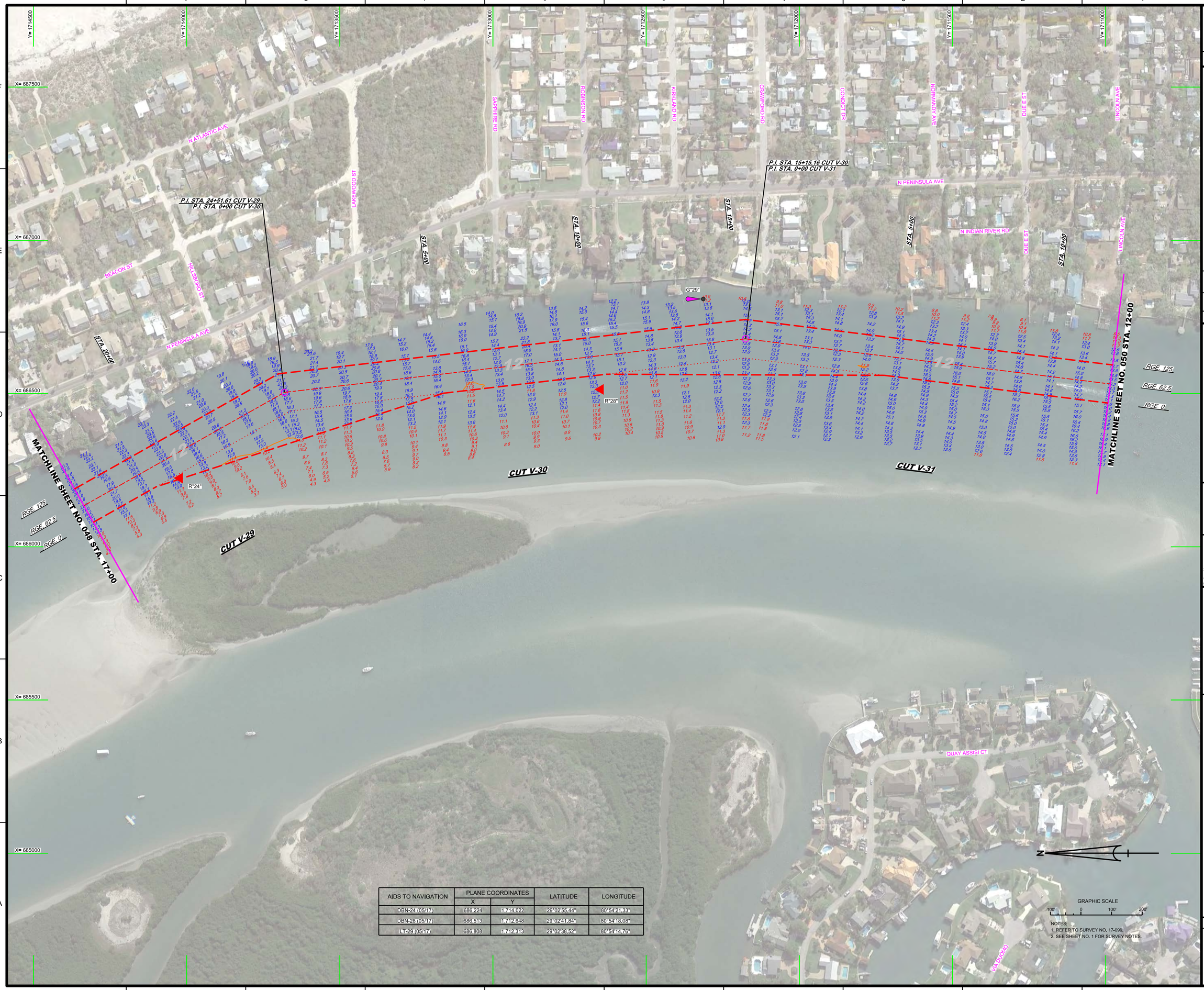
PLAN

Scale: AS SHOWN

Drawing no.

11 / 24

SHEET 48 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-24 (05/17)	686,224	1,714,022	29°02'55.44"	80°54'21.33"
DBN-28 (05/17)	686,513	1,712,648	29°02'41.84"	80°54'18.08"
LT-29 (05/17)	686,808	1,712,313	29°02'38.52"	80°54'14.76"

NOTES:
1. REFER TO SURVEY NO. 17-099.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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: VIRM
DWN by: VIRM
Chd by: CMR
Rev. No. V912EP-XX-X-XXXX
Date: MAY 2017

XX-XX-XXXX-X-XXXX-XX_VO.DGN
17-099-A-CONTOUR.DGN
17-099-A-CONTOUR.DGN
17-099-A-NAV.DGN
17-099-A-SOUN_V29.DGN
17-099-A-SOUN_V30.DGN
17-099-A-SOUN_V31.DGN
IWW-CANGMCCF.DGN
17-099-H-SHEET_V0.DGN
Reference files:
17-099-H-H049_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 17+00 CUT V-29 THRU STA. 12+00 CUT V-31

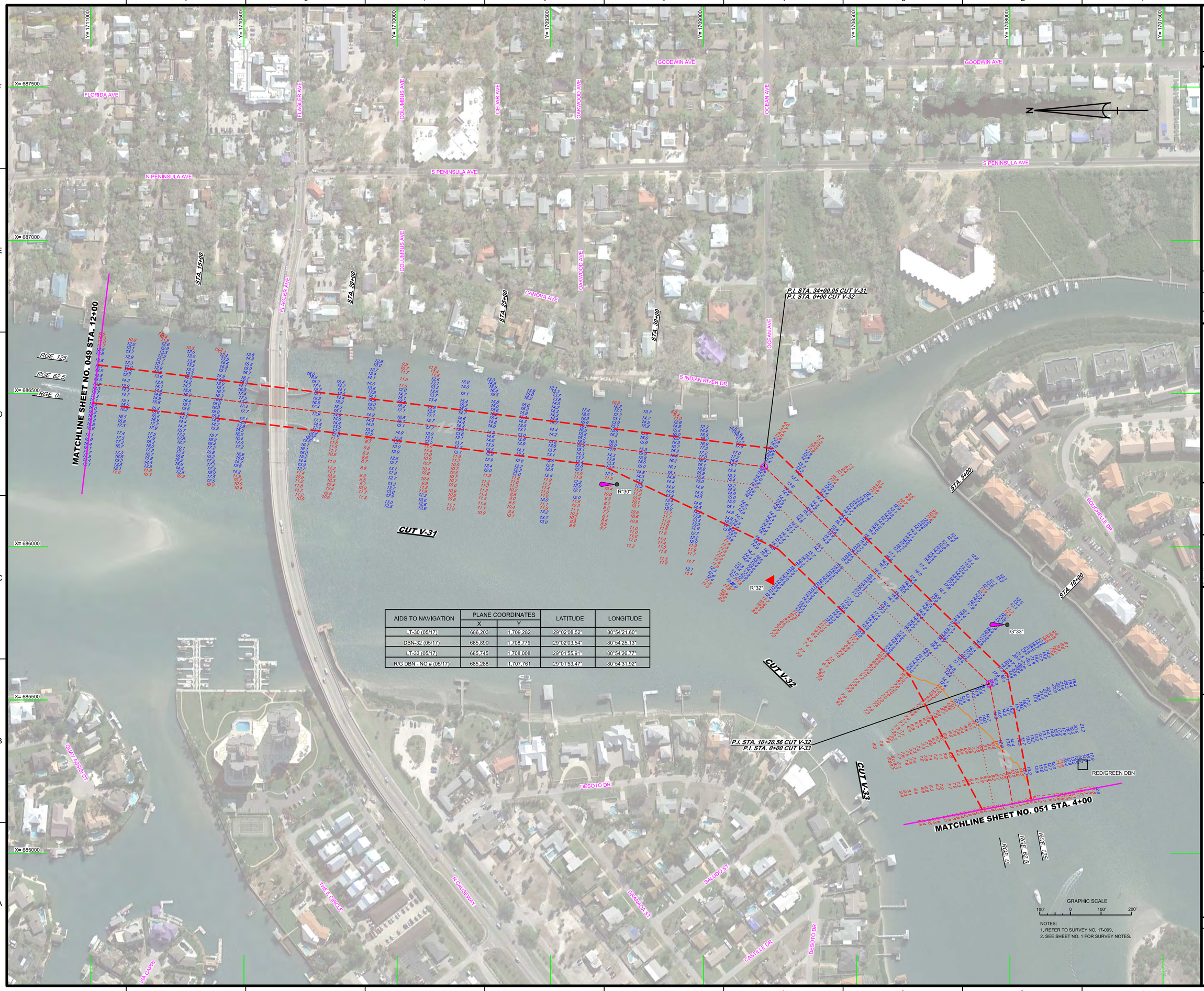
PLAN

Scale: AS SHOWN

Drawing no.

12 / 24

SHEET 49 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-30 (05/17)	686,203	1,709,282	29°02'08.52"	80°54'21.60"
DBN-32 (05/17)	685,890	1,708,779	29°02'03.54"	80°54'25.13"
LT-33 (05/17)	685,745	1,708,008	29°01'55.91"	80°54'26.77"
R/G DBN - NO # (05/17)	685,288	1,707,761	29°01'53.47"	80°54'31.92"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Cad by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V9123EP-XX-X-XXXX
Date: MAY 2017
Reference files: 17-099-VHD59_V0.DGN
File name: 17-099-CESPEROR_V0.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 12+00 CUT V-31 THRU STA. 4+00 CUT V-33

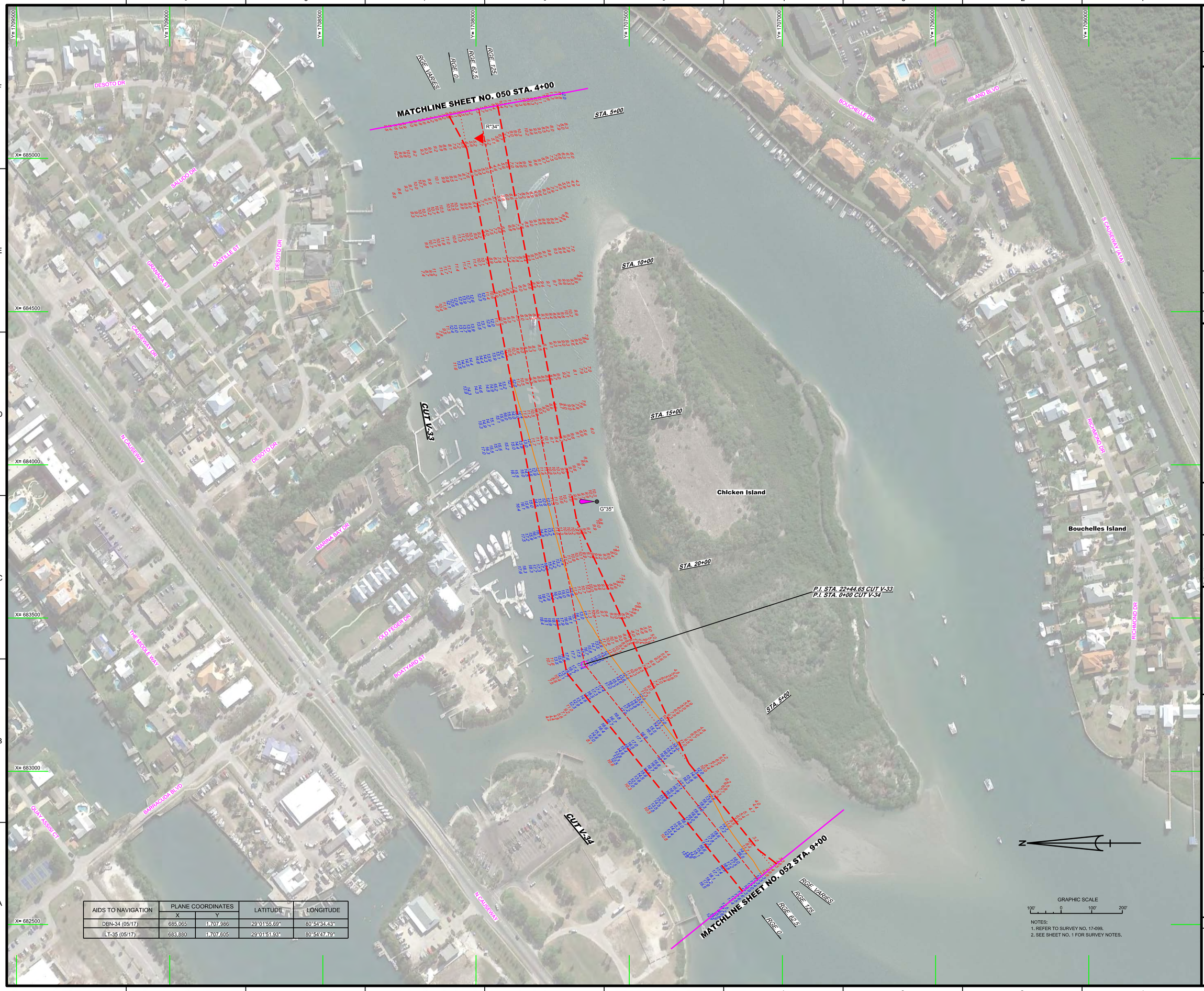
PLAN

Scale: AS SHOWN

Drawing no.

13 / 24

SHEET 50 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-34 (05/17)	685,065	1,707,986	29°01'55.69"	80°54'34.43"
LT-35 (05/17)	683,880	1,707,605	29°01'51.93"	80°54'47.79"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Ckd by: GMB
Rev. No. W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
17-099A-VCCONT2.DGN
17-099A-NAV.DGN
17-099A-VSUN_V1.DGN
17-099A-VSUN_V2.DGN
IWW-C-NGMCCF.DGN
17-099A-CESHORE.DGN
Reference files:
17-099VH051_VOL.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 4+00 CUT V-33 THRU STA. 9+00 CUT V-34

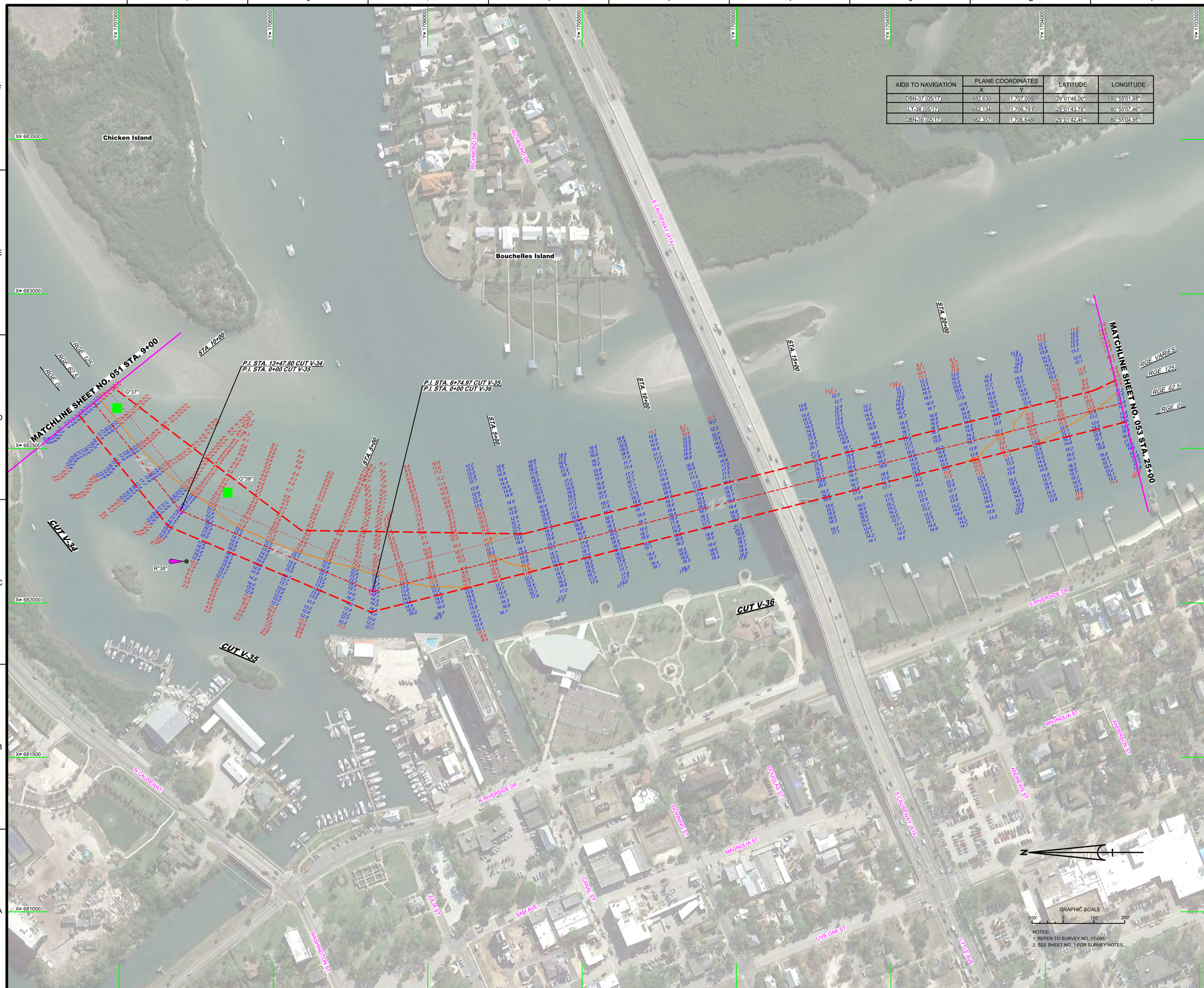
PLAN

Scale: AS SHOWN

Drawing no.

14 / 24

SHEET 51 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-37 (05/17)	682,630	1,707,006	29°01'46.00"	80°55'01.88"
LT-38 (05/17)	682,134	1,706,781	29°01'43.78"	80°55'07.46"
DBN-39 (05/17)	982,357	1,706,648	29°01'42.46"	80°55'04.95"

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: WRM
DWN by: WRM
Ckd by: CMR
Rev. No.: V9123EP-XX-X-XXXX
Date: MAY 2017

LX:XXXXXXXX-XXXXXXXX.DGN
17-099-XXCONTOUR.DGN
17-099-XXCONTLD.DGN
17-099-HANAV.DGN
17-099-HSOUN_V34.DGN
17-099-HSOUN_V35.DGN
17-099-HSOUN_V36.DGN
IWW-CANGMCCF.DGN
17-099-DESIGNDR_V0.DGN
Reference files:
17-099-HVH052_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 9+00 CUT V-34 THRU STA. 25+00 CUT V-36

PLAN

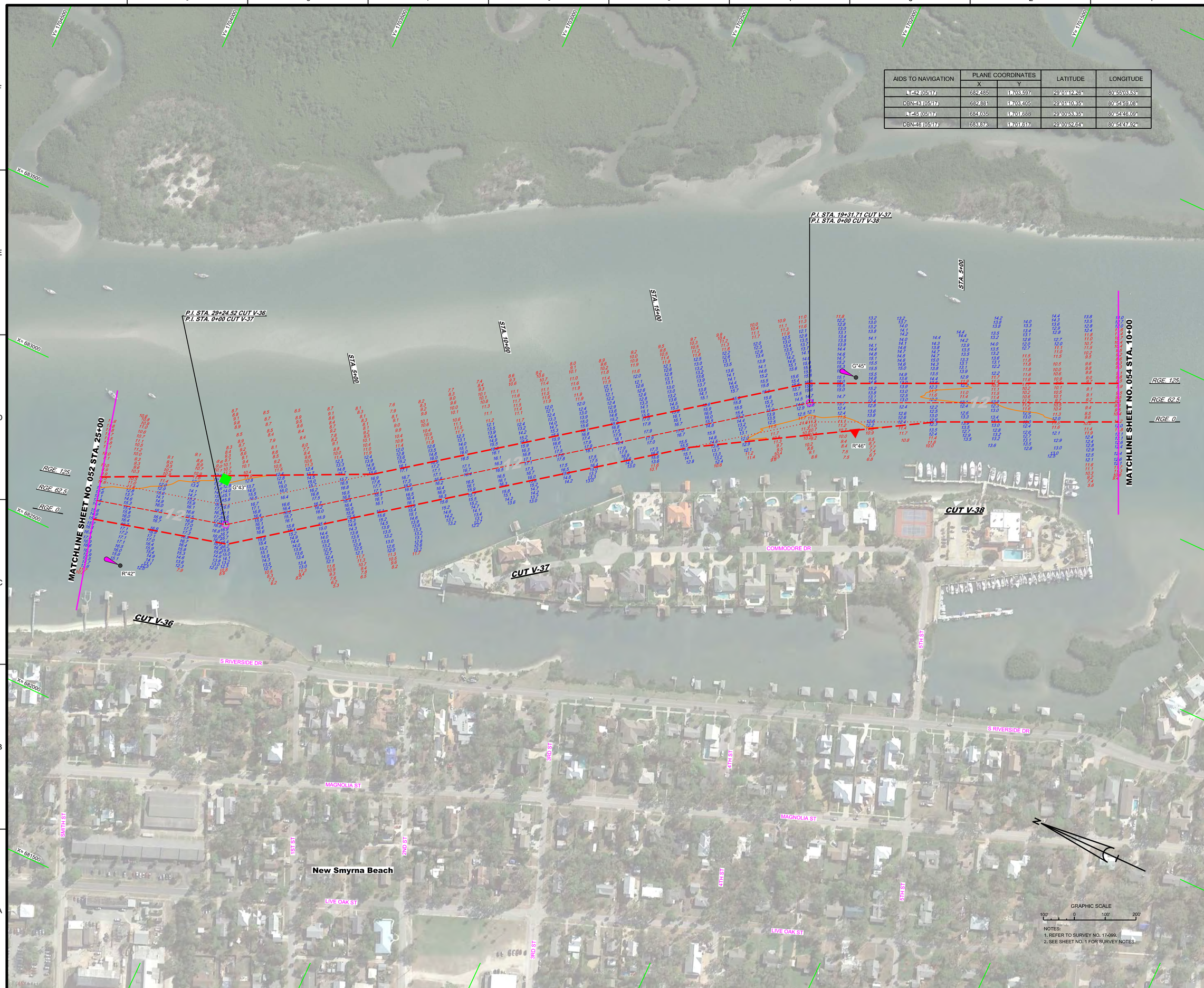
Scale: AS SHOWN

Drawing no.

15 / 24

SHEET 52 OF 85

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-42 (05/17)	682,485	1,703,597	29°01'12.26"	80°55'03.53"
DBN-43 (05/17)	682,881	1,703,405	29°01'10.35"	80°54'59.08"
LT-45 (05/17)	684,035	1,701,688	29°00'53.35"	80°54'46.09"
DBN-46 (05/17)	683,873	1,701,617	29°00'52.64"	80°54'47.92"



NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Cad by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V9123EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXXXX.DGN
17-099-XXXXXXXXXX.DGN
17-099-XXXXXXXXXX.DGN
17-099-HVNAV.DGN
17-099-HVSOUN_V08.DGN
17-099-HVSOUN_V09.DGN
17-099-HVSOUN_V10.DGN
IWW-CNGNICCF.DGN
17-099-HVSHORE_V00.DGN
Reference files:
17-099-HVHOS3_V03.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 25+00 CUT V-36 THRU STA. 10+00 CUT V-38

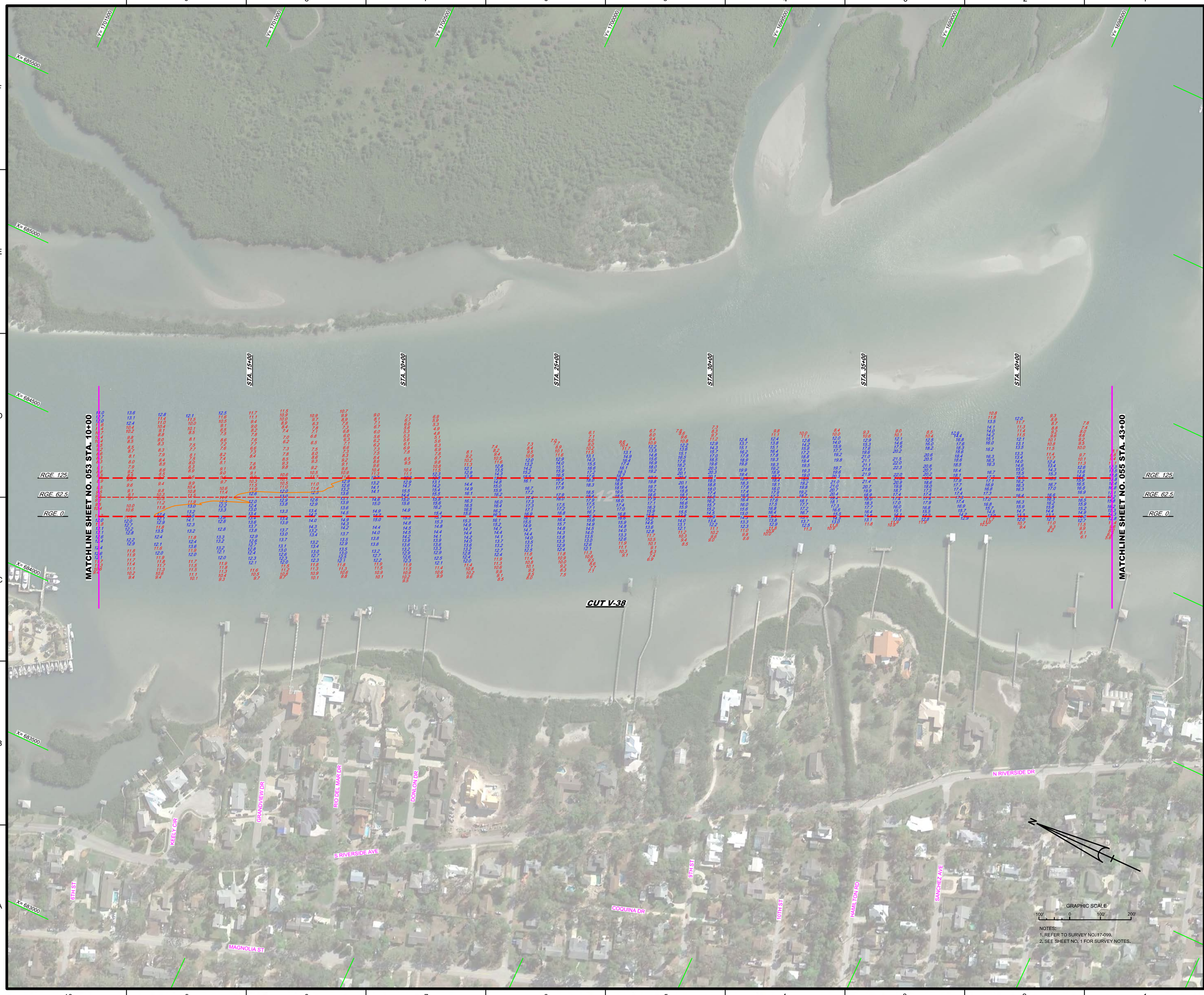
PLAN

Scale: AS SHOWN

Drawing no.

16 / 24

SHEET 53 OF 85



NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Ckd by: GMR
Rev. No. W912EP-XX-X-XXXX
Date: MAY 2017
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-VOLUSIA_V.DGN
IWW-C-NGI/CCF.DGN
17-099-K-BS-BRDR_VO.DGN
Reference files:
17-099-VHD54_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 10+00 THRU STA. 43+00 CUT V-38

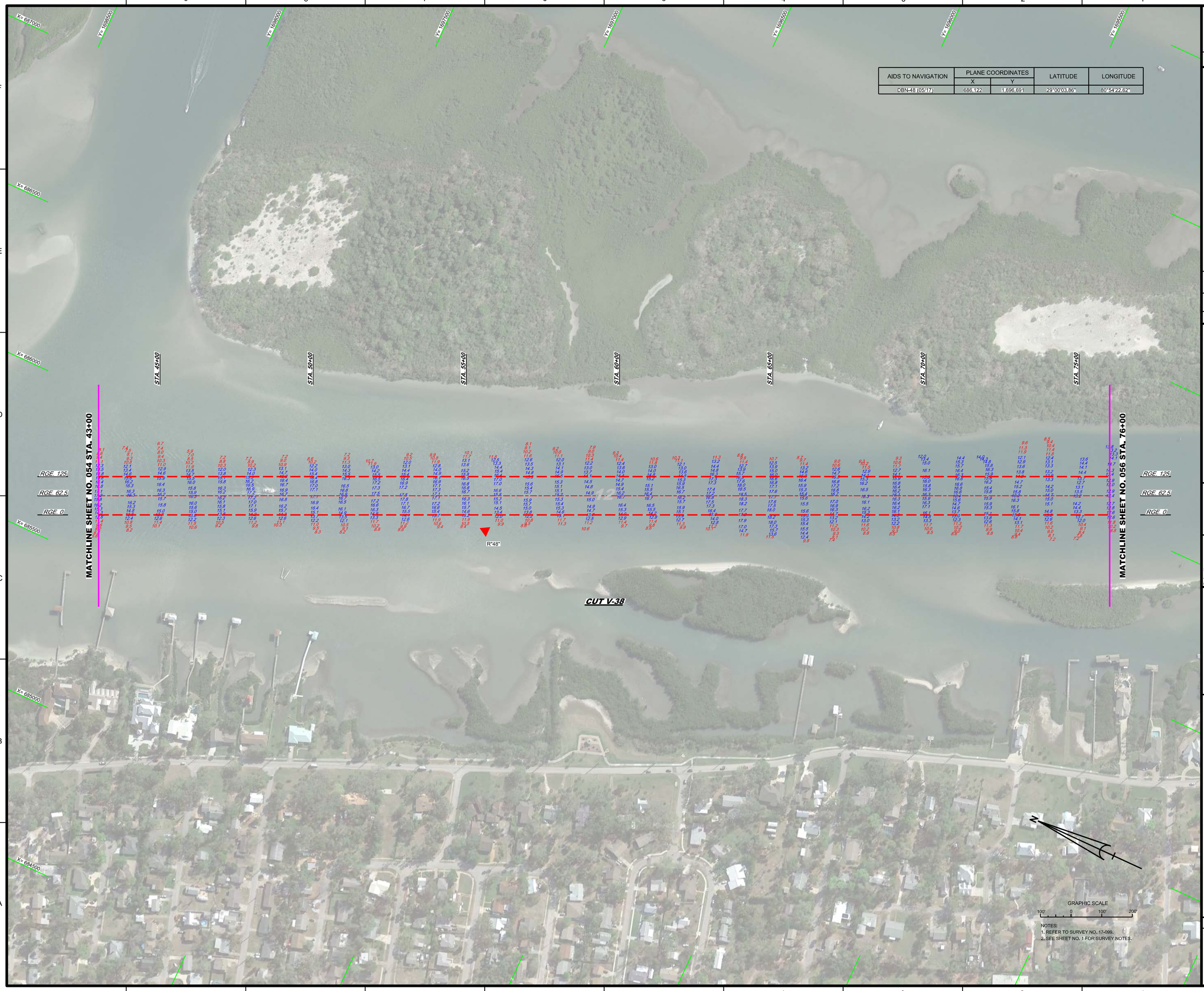
PLAN

Scale: AS SHOWN

Drawing no.

17 / 24

SHEET 54 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-48 (05/17)	686,122	1,696,691	29°00'03.86"	80°54'22.62"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Chk'd by: GMR
Rev. No. W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-H-SOUN_V38.DGN
IWW-C-NGIMCCF.DGN
17-099-H-DESIGNDR_VO.DGN
Reference files:
17-099VHD55_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 43+00 THRU STA. 76+00 CUT V-38

PLAN

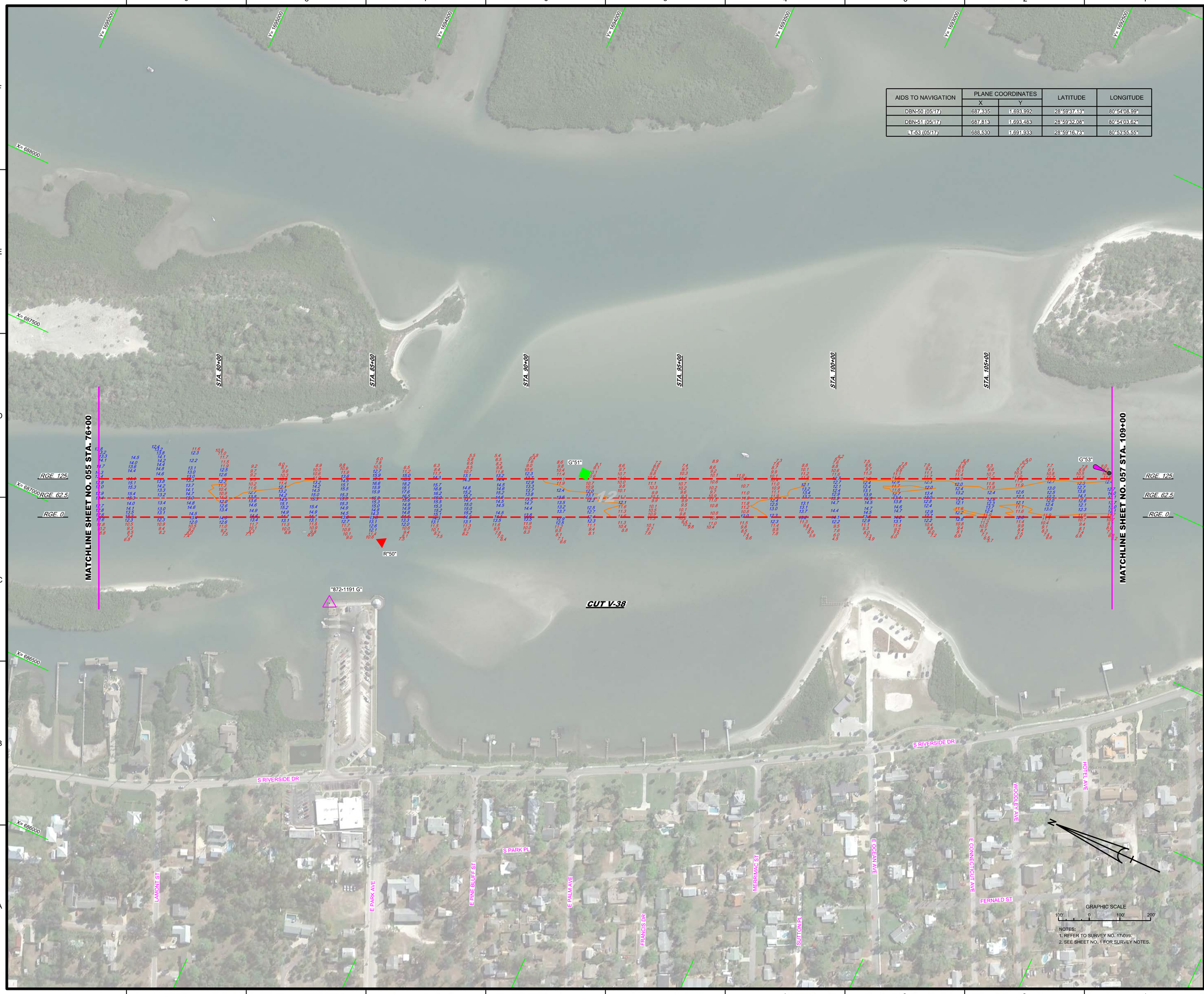
Scale: AS SHOWN

Drawing no.

18 / 24

SHEET 55 OF 85

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-50 (05/17)	687,335	1,693,992	28°59'37.13"	80°54'08.99"
DBN-51 (05/17)	687,813	1,693,483	28°59'32.08"	80°54'03.62"
LT-53 (05/17)	688,530	1,691,933	28°59'16.73"	80°53'55.55"



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: WRM
DWN by: WRM
Ckd by: GMR
Proj. No. V6912EP-XX-XX-XXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099A-SCON12.DGN
17-099A-SCON13.DGN
17-099A-SOUN_V38.DGN
IWW-CNGMCF.DGN
17-099-HR-BRDR_VO.DGN
Reference files

17-099-HR-05_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 76+00 THRU STA. 109+00 CUT V-38

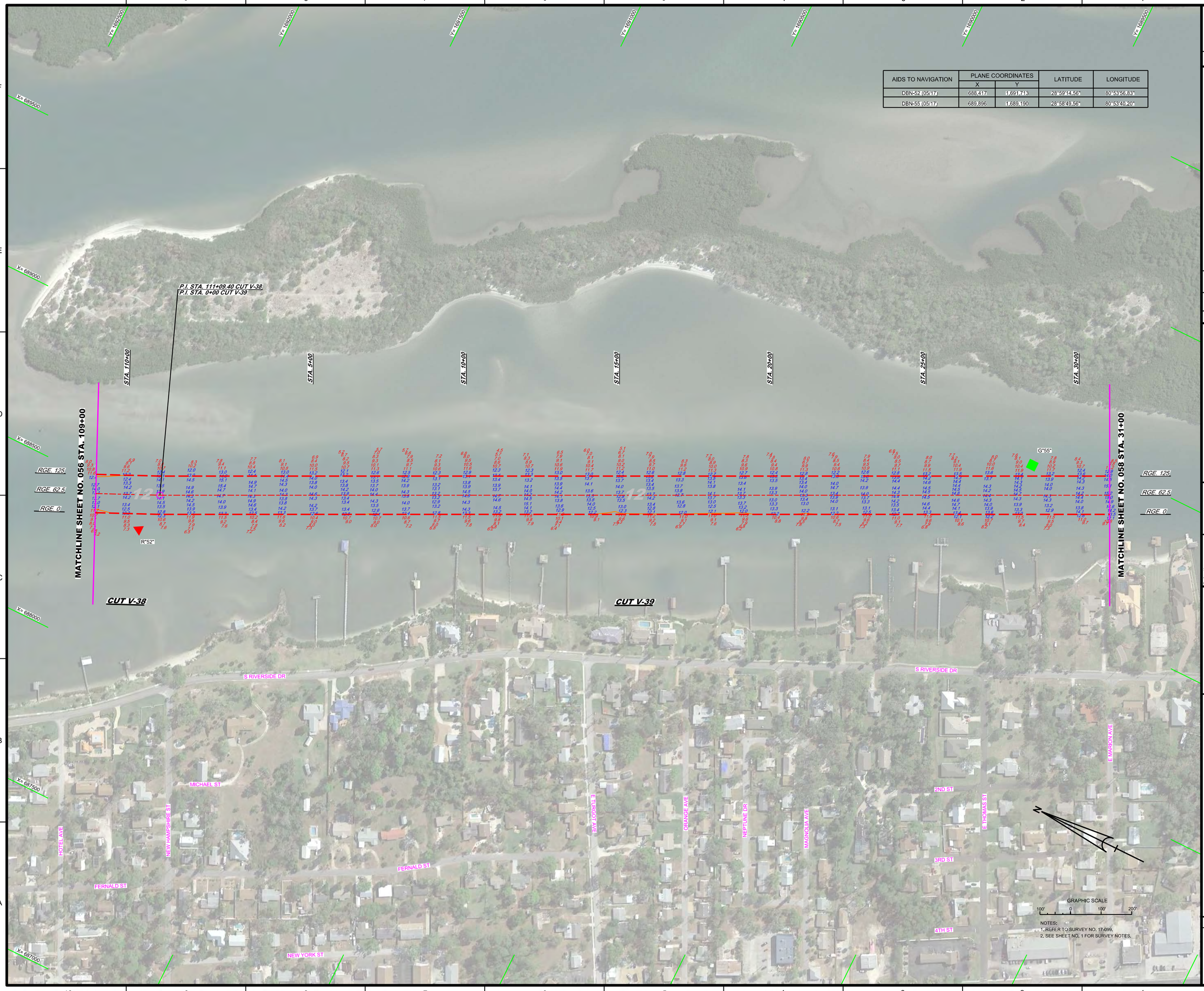
PLAN

Scale: AS SHOWN

Drawing no.

19 / 24

SHEET 56 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-52 (05/17)	688,417	1,691,713	28°59'14.56"	80°53'56.83"
DBN-55 (05/17)	689,896	1,689,190	28°58'49.56"	80°53'40.20"

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: WRM
DWN by: WRM
Rev. No. W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099-VCCONT1.DGN
17-099-NAV.DGN
17-099-VSUN_V01.DGN
17-099-VSUN_V02.DGN
IWW-C-NGWCCF.DGN
17-099-C-ESHBRDR_V0.DGN
Reference files:
17-099VH057_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 109+00 CUT V-38 THRU STA. 31+00 CUT V-39

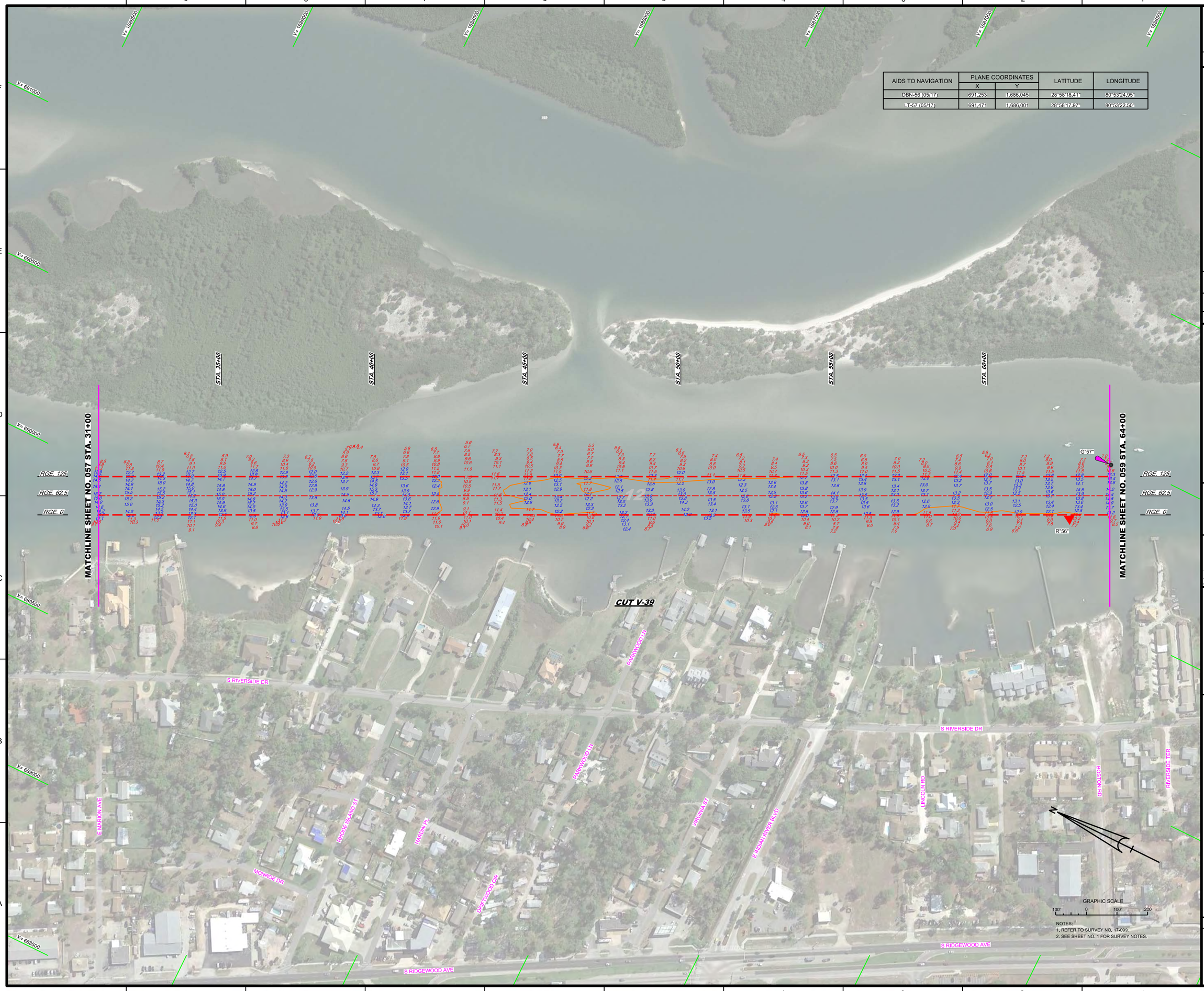
PLAN

Scale: AS SHOWN

Drawing no.

20 / 24

SHEET 57 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-56 (05/17)	691,253	1,686,045	28°58'18.41"	80°53'24.95"
LT-57 (05/17)	691,471	1,686,001	28°58'17.97"	80°53'22.50"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Cad by: CMR
Designed by: WRM
DWN by: WRM
Rev. No. W912EP-XX-X-XXXX
Date: MAY 2017

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
17-099A-CONT2.DGN
17-099A-CONT1.DGN
17-099A-SOUN_V39.DGN
IWW-C-NGWCCF.DGN
17-099A-DESHEIRDR_VO.DGN
Reference files:
17-099VHD58_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

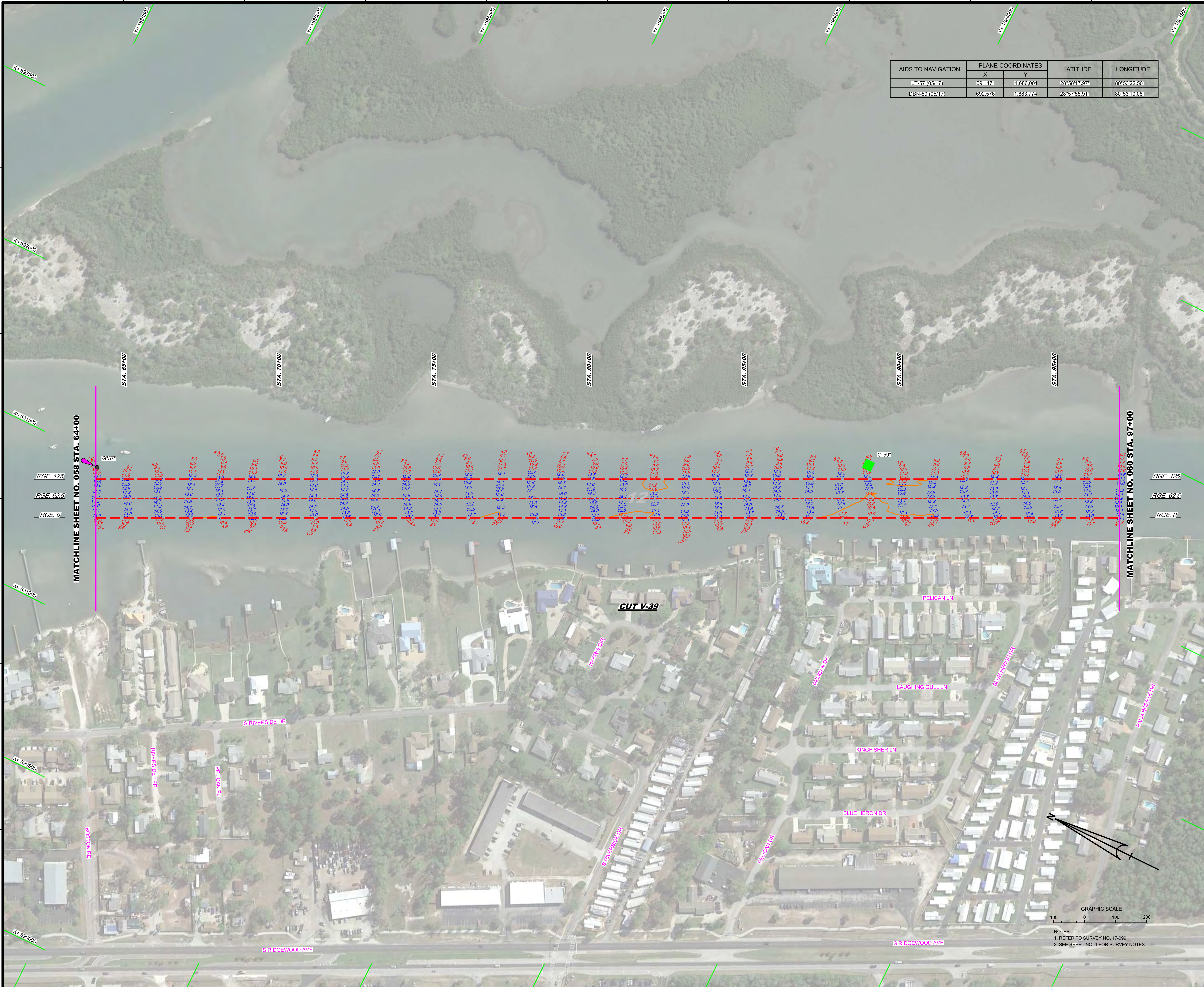
STA. 31+00 THRU STA. 64+00 CUT V-39

PLAN

Scale: AS SHOWN

Drawing no.
21 / 24

SHEET 58 OF 85



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-57 (05/17)	691,471	1,686,001	28°58'17.97"	80°53'22.50"
DBN-59 (05/17)	692,576	1,683,774	28°57'55.91"	80°53'10.08"

NOTES:
1. REFER TO SURVEY NO. 17-099.
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: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Dated: MAY 2017

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
17-099-V-CON12.DGN
17-099-V-NAV.DGN
17-099-V-SOUN_V39.DGN
IWW-C-NGMCCF.DGN
17-099-G-BS-BRDR_VO.DGN

File name: 17-099-VH-059_VO.DGN

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT
STA. 64+00 THRU STA. 97+00 CUT V-39

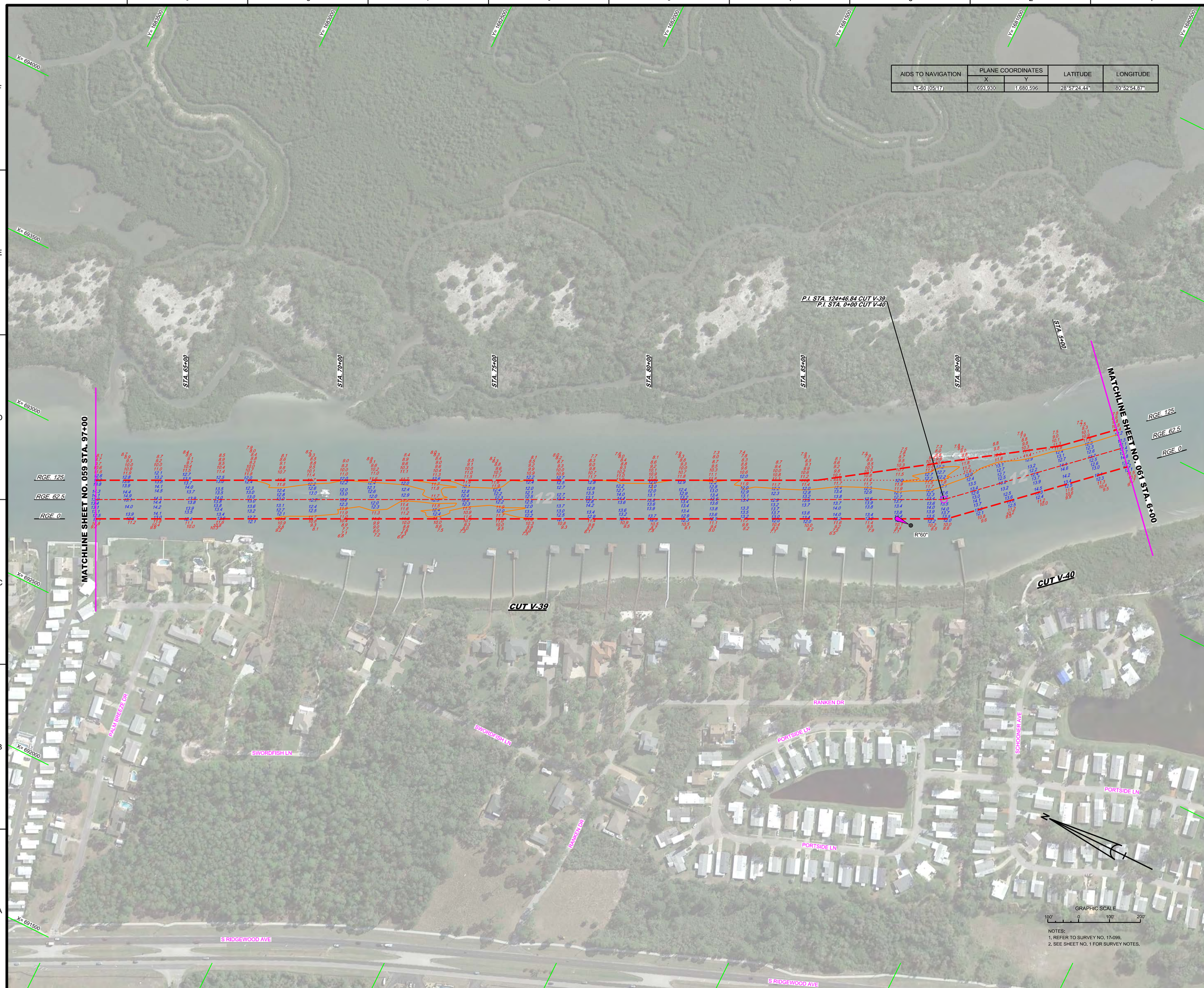
PLAN

Scale: AS SHOWN

Drawing no.
22 / 24

SHEET 59 OF 85

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-60 (05/17)	693,930	1,680,596	28°57'24.44"	80°52'54.87"



NOTES:
1. REFER TO SURVEY NO. 17-099.
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

Drawn by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.: W912EP-XX-X-XXXX
Date: MAY 2017

X:\XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXXXXXX.DGN
17-099-V-CONTOLDGN
17-099-V-NAV.DGN
17-099-V-SOUN_TRACK.DGN
17-099-V-SOUN_VARD.DGN
NWW-CNG-MCCF.DGN
17-099-PES-BRDR_VO.DGN
Reference files:
17-099-VHD60_VO.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 97+00 CUT V-39 THRU STA. 6+00 CUT V-40

PLAN

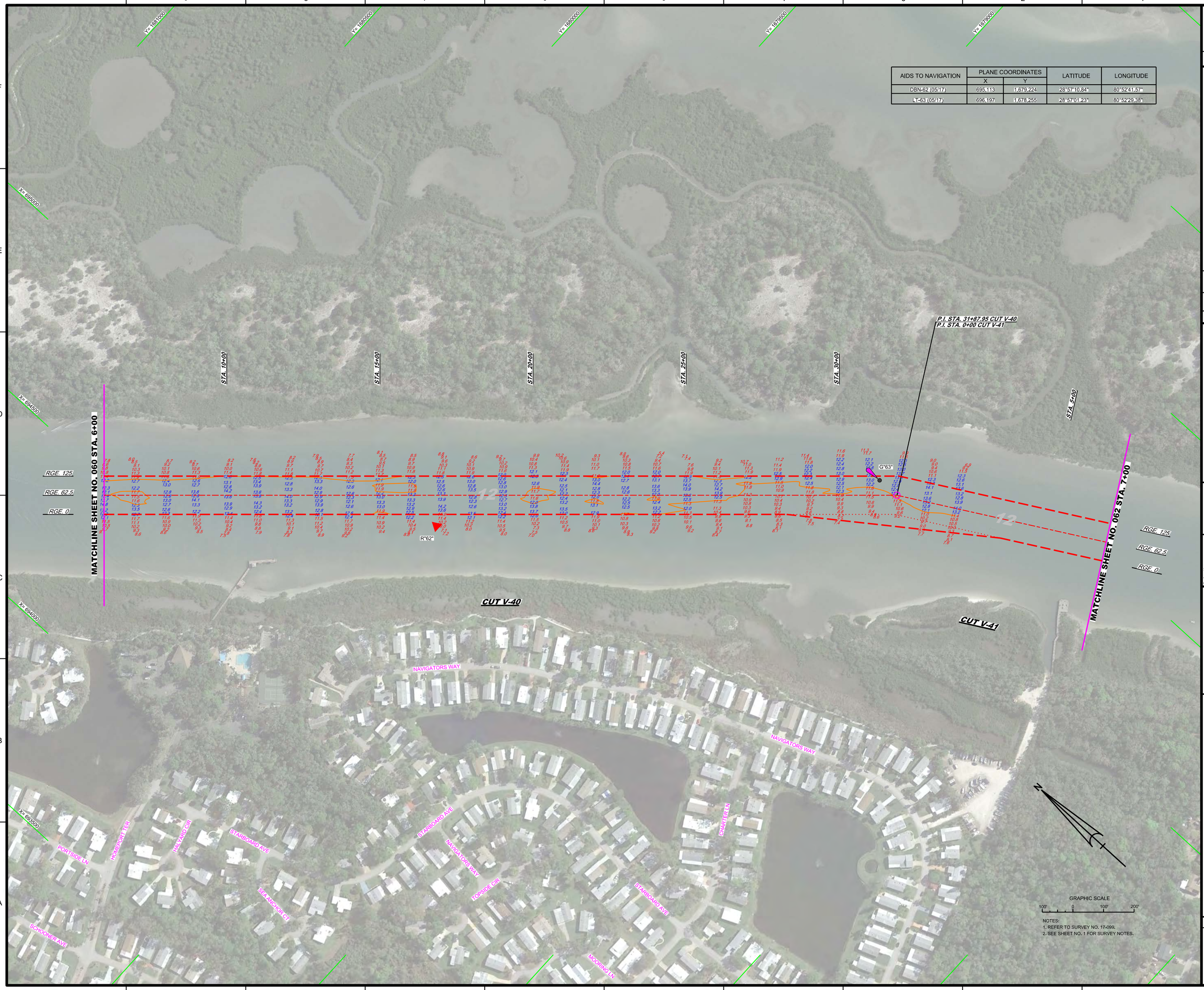
Scale: AS SHOWN

Drawing no.

23 / 24

SHEET 60 OF 85

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-62 (05/17)	695,113	1,679,224	28°57'10.84"	80°52'41.57"
LT-63 (05/17)	696,197	1,678,255	28°57'01.23"	80°52'29.38"



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: WRM
DWN by: WRM
Chk by: GMR
Proj. No. V03123EP-XX-XX-XXXX
Date: MAY 2017

X:\XXXXXXXX-XX-XX-XX\XXXX\XXXXXXXX-XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX-XXXXXXXX.DGN
17-099A-CON12.DGN
17-099A-SOUN_V01.DGN
17-099A-SOUN_V40.DGN
IWW-C-CNGMCF.DGN
17-099-C-BR-BRDR_V0.DGN
Reference files
17-099-VHD61_V0.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
VOLUSIA COUNTY

HYDROGRAPHIC EXAMINATION SURVEY FY17
12-FOOT PROJECT

STA. 6+00 CUT V-40 THRU STA. 7+00 CUT V-41

PLAN

Scale: AS SHOWN

Drawing no.

24 / 24

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