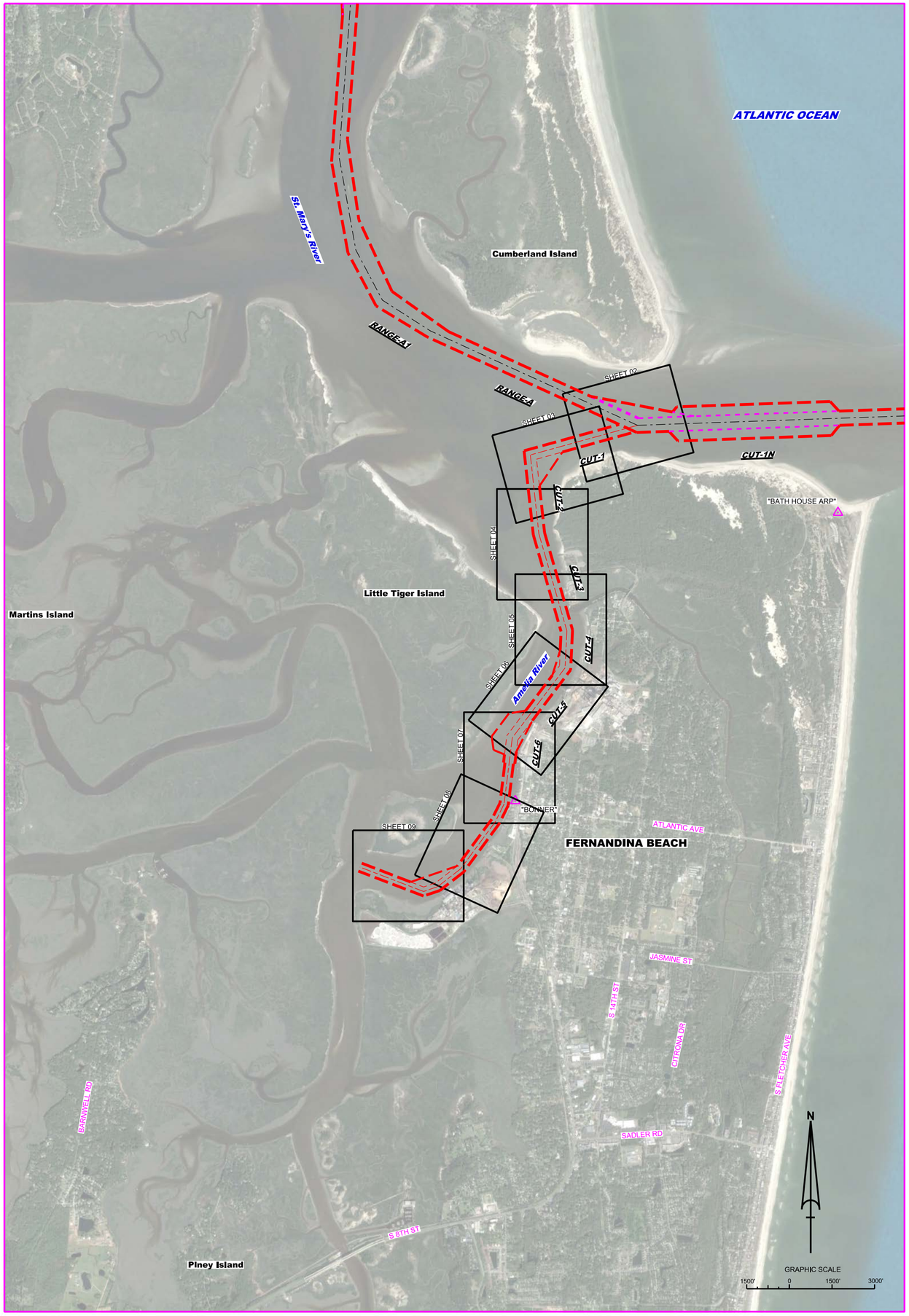
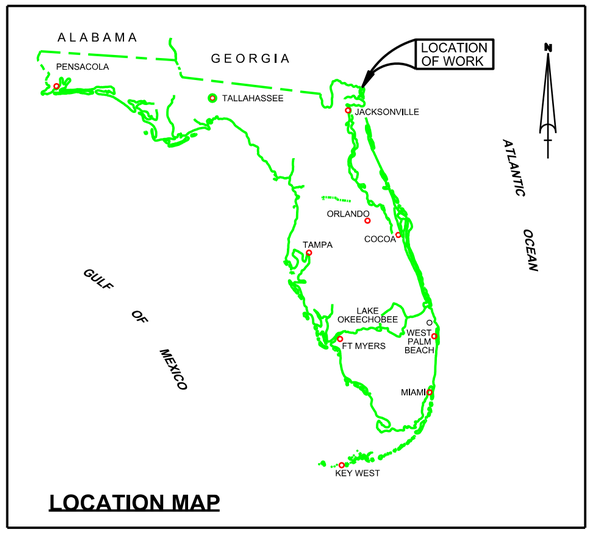




FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY19
28, 35 & 36-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 19-125.
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 GAUGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-0030, FERNANDINA BEACH, AMELIA RIVER, FL
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 "BATH HOUSE ARP" (OPUS PID: BBCB08)

   REFERENCE BASE LOCATED AT "RICHARD E BONNER" (OPUS PID: BBCK39)

   TIDE STAFF WAS SET NEAR FERNANDINA MUNICIPAL MARINA FROM "RICHARD E BONNER" (PID: BBCK39)
8. VERTICAL MEASUREMENTS WERE MADE USING A RESON MODEL T20P MULTI-BEAM SYSTEM AND A ROSS SMARTSOUNDER MODEL 835C DUAL-FREQUENCY SOUNDER WITH A 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY (400 KHZ).

VESSEL	DATE OF SURVEY	AREA SURVEYED
SB-36	20 MAR 2019	CUTS 1 THRU 5
SB-36	22 MAR 2019	CUTS 6 THRU 7
SB-36	23 MAR 2019	CUTS 8 THRU 10

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 2013 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 2010.

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

Designed by: VRM
Drawn by: VRM
Checked by: GMR
Trv. No.
Date: MAR 2019

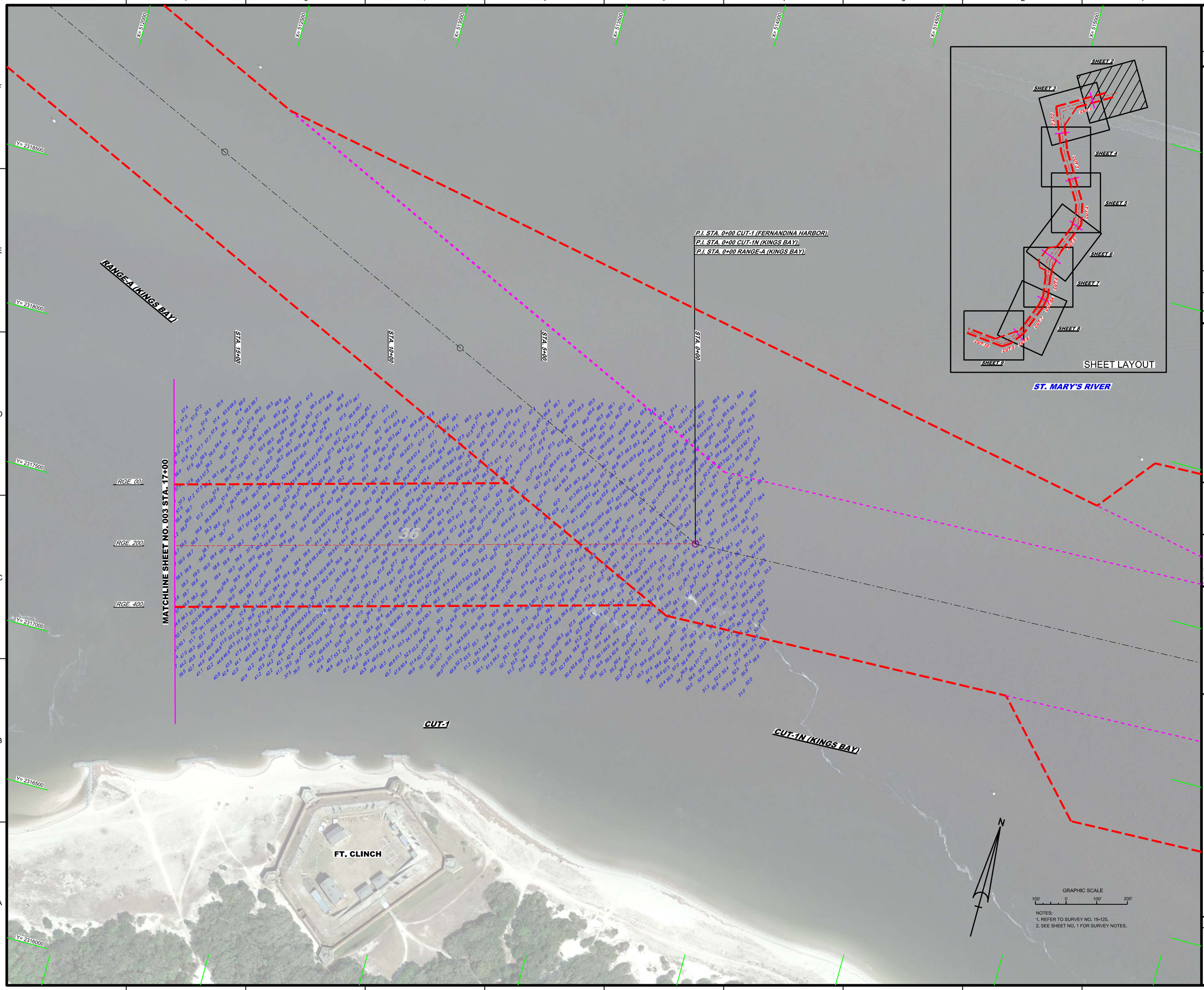
19-125-H-IN02FL.DGN
KBC13-C-NG01HAN-D0N
FERNANDINA HARBOR-C-NGMCCF.DGN
19-125-C-BS-SRBDR.DGN
Reference files
19-125-VH-001.DGN
File name

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT
INDEX, LOCATION AND VICINTY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 09



NOTES:
1. REFER TO SURVEY NO. 19-125.
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: GMR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: MAR 2019

19-125-SOUN-C1.DGN
IDIBCTS-C-NGCNDN.DGN
FERNANDINA HARBOR-C-NGNCCF.DGN
19-125-CABS-BRDR.DGN
Reference files:
19-125-VH-002.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT
STA. 0+00 THRU STA. 17+00 CUT-1

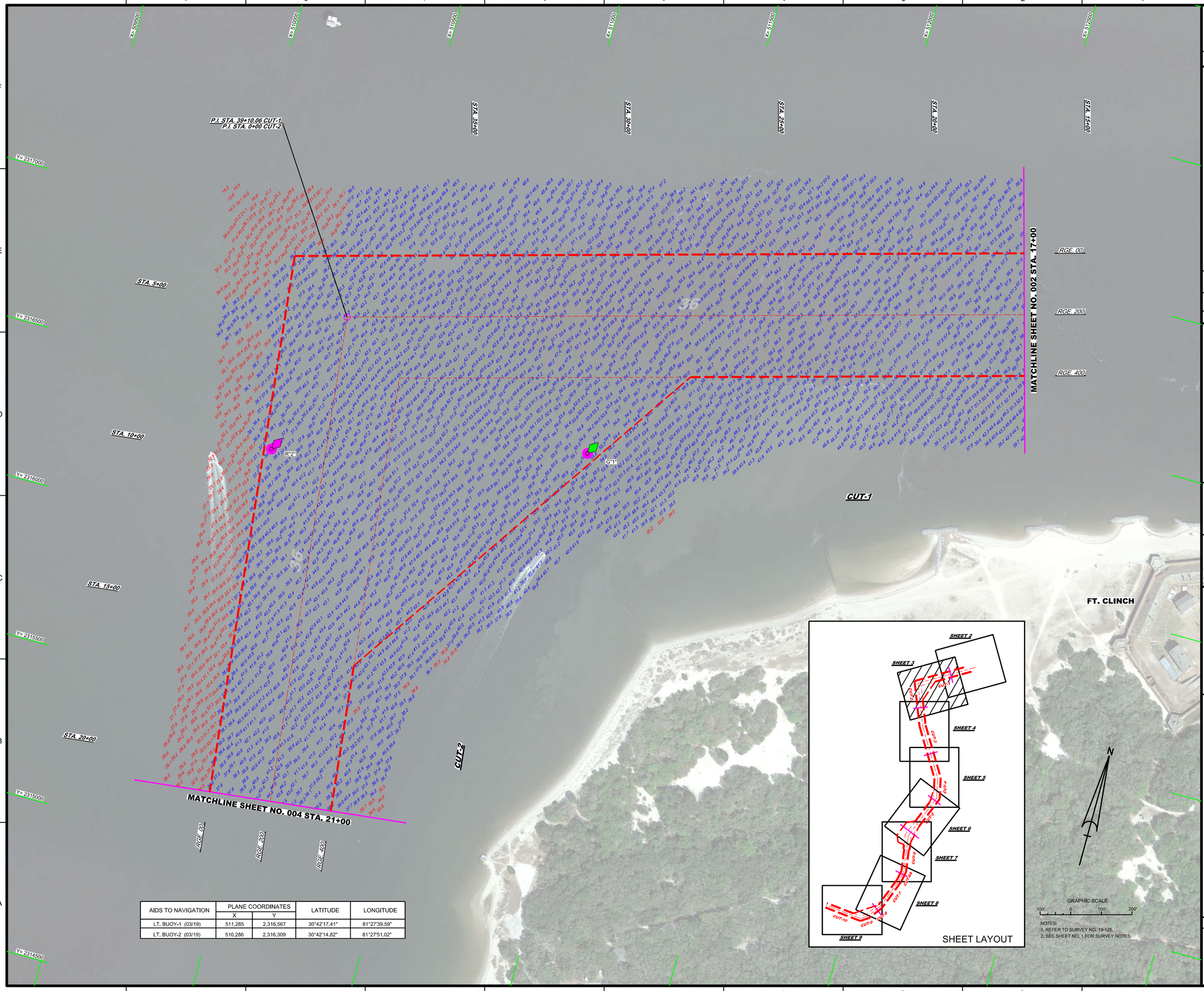
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 09



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-1 (03/19)	511,285	2,316,567	30°42'17.41"	81°27'39.59"
LT. BUOY-2 (03/19)	510,286	2,316,309	30°42'14.82"	81°27'51.02"

NOTES:
1. REFER TO SURVEY NO. 19-125.
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.
Date: MAR 2019

19-125-A-NAV.DGN
19-125-A-SOUN_C1.DGN
FERNANDINA HARBOR-C-NGMCCF.DGN
19-125-C-BR-BRDR.DGN
Reference files
19-125-VH-003.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

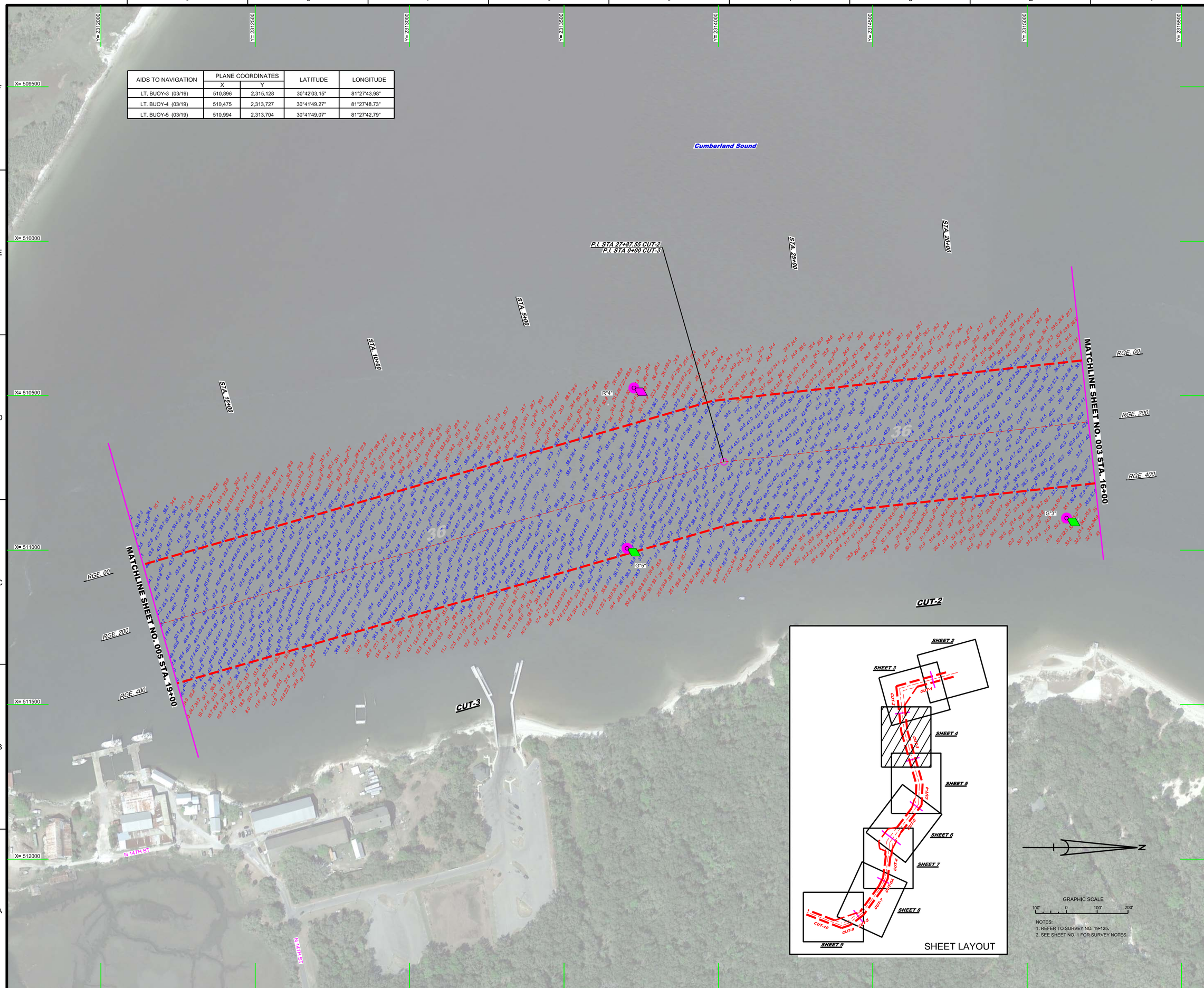
PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT
STA. 0+00 THRU STA. 17+00 CUT-1
PLAN

Scale: AS SHOWN

Drawing no.
3

SHEET 03 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (03/19)	510,896	2,315,128	30°42'03.15"	81°27'43.98"
LT. BUOY-4 (03/19)	510,475	2,313,727	30°41'49.27"	81°27'48.73"
LT. BUOY-5 (03/19)	510,994	2,313,704	30°41'49.07"	81°27'42.79"



NOTES:
1. REFER TO SURVEY NO. 19-125.
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: MRM
DWN by: MRM
Ckd by: GMR
Date: MAR 2019

19-125-H-CON06.DGN
19-125-H-NAV.DGN
19-125-H-SHOAL_CT.DGN
19-125-H-SOUN_CL.DGN
FERNANDINA HARBOR-H-AGMCCF.DGN
19-125-H-SR9-BRGR.DGN
19-125-H-004.DGN

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT

STA. 16+00 CUT-2 THRU STA. 19+00 CUT-3

PLAN

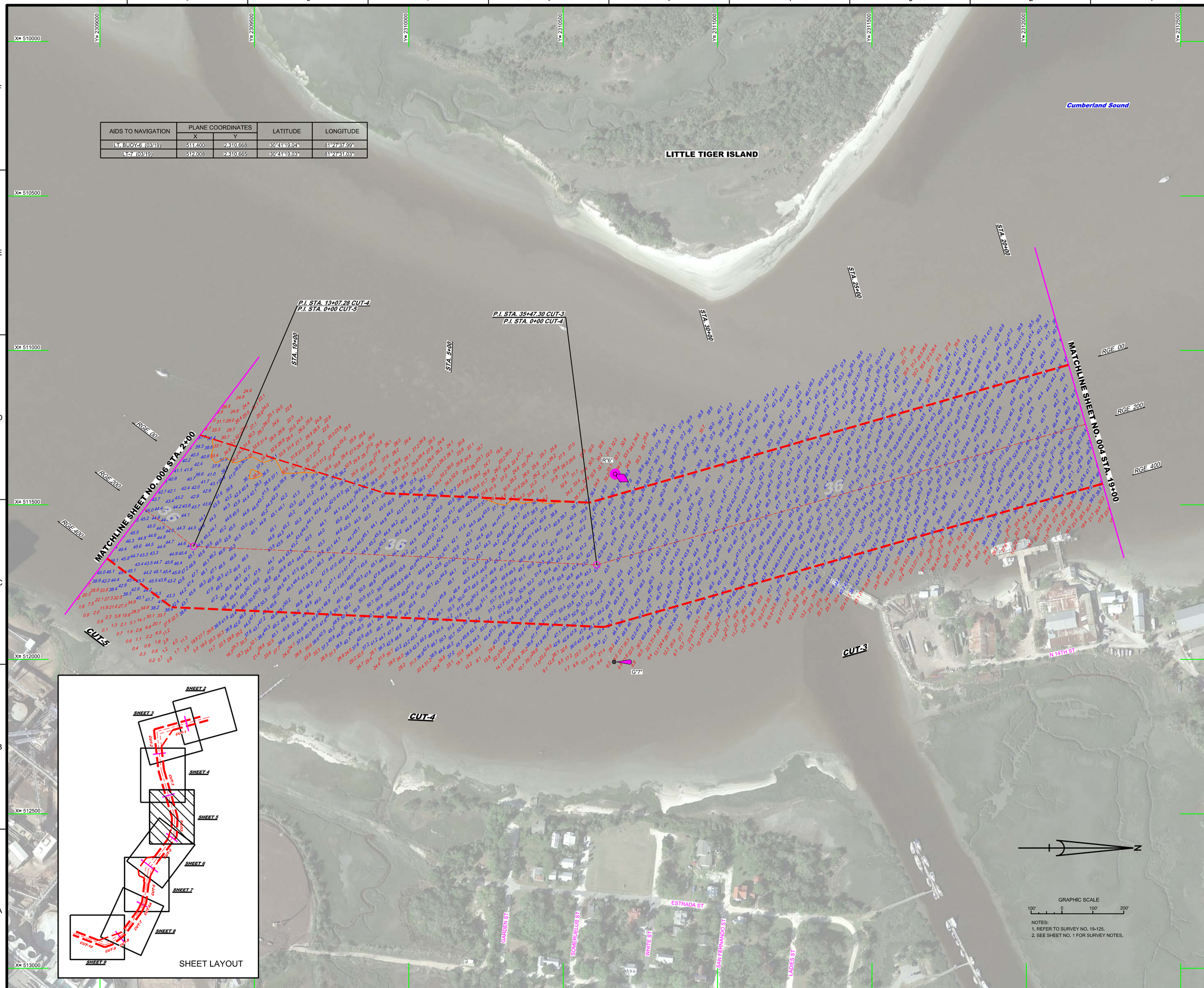
Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (03/19)	511,400	2,310,668	30°41'19.04"	81°27'37.99"
LT-7 (03/19)	512,008	2,310,665	30°41'19.03"	81°27'31.03"



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
Drawn by: WRM
Checked by: GMR
Proj. No.
Date: MAR 2019

19-125-A-CON36
19-125-A-NAV.DGN
19-125-A-SOUL_CLDGN
19-125-A-SOUL_CLDGN
19-125-A-SOUL_CLDGN
FERNANDINA HARBOR-A-GMCCF.DGN
19-125-C-BR-BRDR.DGN
Reference files
19-125-A-005.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT

STA. 19+00 CUT-3 THRU STA. 2+00 CUT-5

PLAN

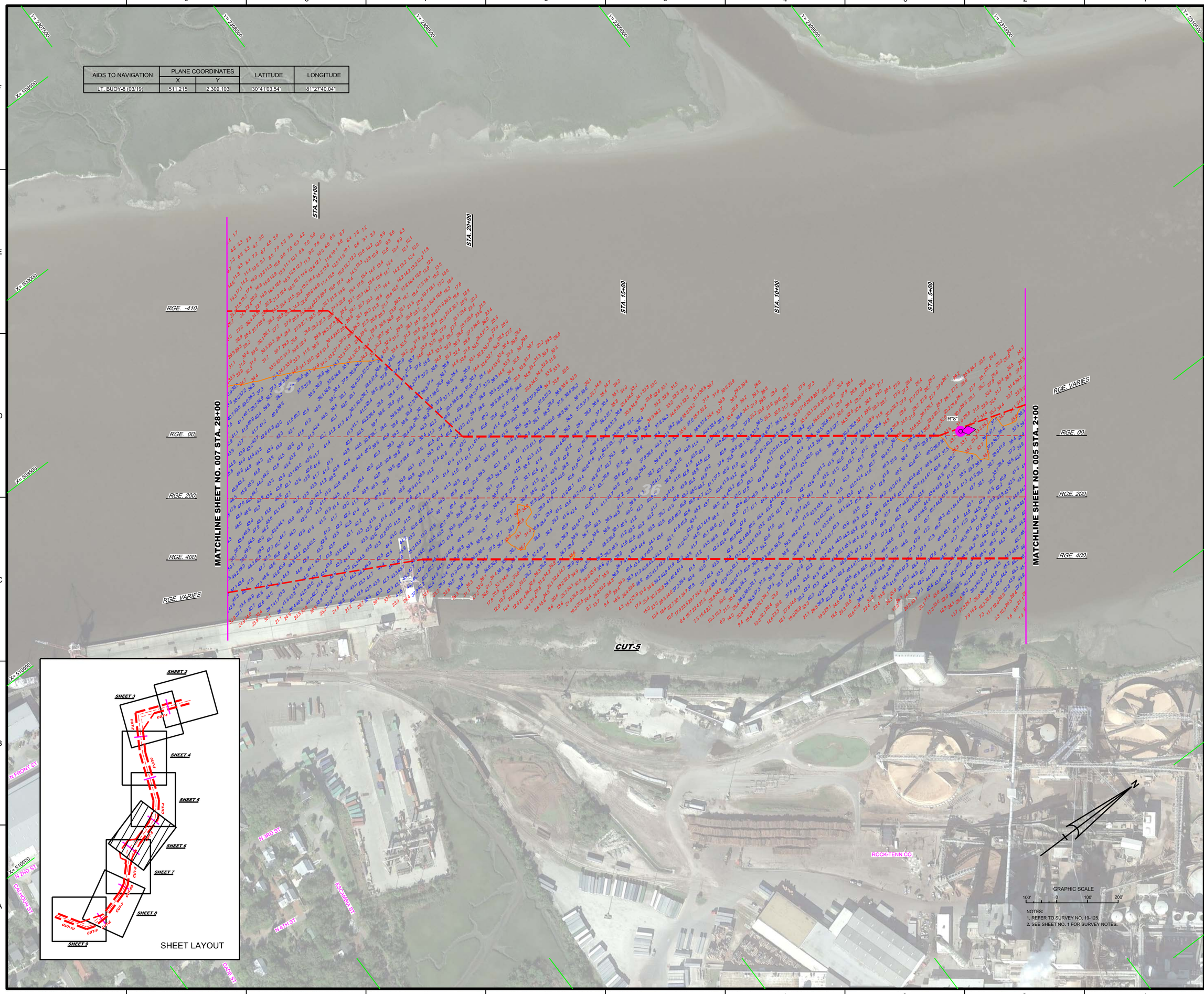
Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-8 (03/19)	511,215	2,309,103	30°41'03.54"	81°27'40.04"



NOTES:
1. REFER TO SURVEY NO. 19-125.
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
Proj. No.
Date: JUN 2018

19-125>A-CONSL.DGN
19-125>A-CONB.DGN
19-125>A-SOUN.DGN
19-125>A-SOUN_CL.DGN
FERNANDINA HARBOR>C-NGMCF.DGN
19-039>C-BR-BRGR.DGN
Reference files
19-125>VR-006.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

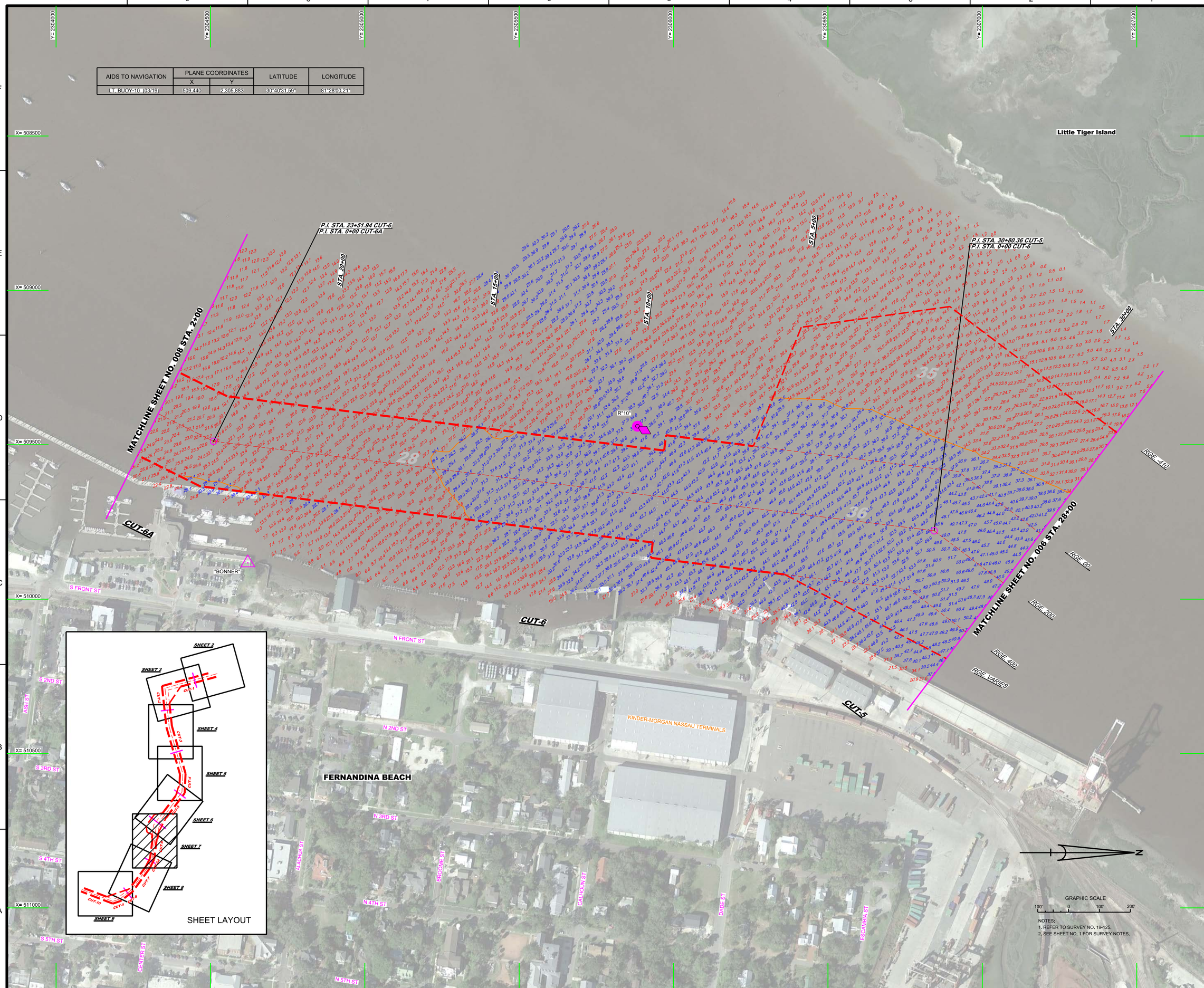
PROJECT CONDITION SURVEY FY18
28, 35 AND 36-FOOT PROJECT
STA. 2+00 CUT-5 THRU STA.
PLAN

Scale: AS SHOWN

Drawing no.
6

SHEET 06 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (03/19)	509,440	2,305,883	30°40'31.59"	81°28'00.21"



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.
Date: MAR 2019

19-125-LOCATION.DGN
19-125-V-CONS.DGN
19-125-V-NAV.DGN
19-125-V-SOUN_CS.DGN
19-125-V-SOUN_CHA.DGN
19-125-V-SOUN_CHA.DGN
FERNANDINA HARBOR-C-NGMCCF_ALT.DGN
19-125-C-ESHEIRDR.DGN
Reference files:
19-125-VH-007.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT

STA. 28+00 CUT-5 THRU STA. 9+00 CUT-6

PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
L1-12 (03/19)	508,902	2,303,958	30°40'12.52"	81°28'06.28"
DBN-14 (03/19)	507,707	2,302,536	30°39'58.40"	81°28'19.90"

P.I. STA. 20+72.17 CUT-7
P.I. STA. 0+00 CUT-8

P.I. STA. 6+78.85 CUT-6A
P.I. STA. 0+00 CUT-7

MATCHLINE SHEET NO. 009 STA. 3+00

MATCHLINE SHEET NO. 007 STA. 2+00

STA. 20+00
STA. 15+00
STA. 10+00
STA. 5+00
STA. 5+00

R"14"
R"12"

CUT-8
CUT-7
CUT-6A

RAYONIER INC

S FRONT ST
S 2ND ST
S 3RD ST
BEECH ST
GUM ST

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-125.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

SHEET LAYOUT
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9

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.
Date: MAR 2019

19-125-V-CON28.DGN
19-125-V-NAV.DGN
19-125-V-SOUN_CR4.DGN
19-125-V-SOUN_CR28.DGN
19-125-V-SOUN_CR35.DGN
FERNANDINA HARBOR-C-NGMCCF.DGN
19-125-C-FS-BRDR.DGN
Reference files:
19-125-V-H008.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT

AIWW UNCONTROLLED

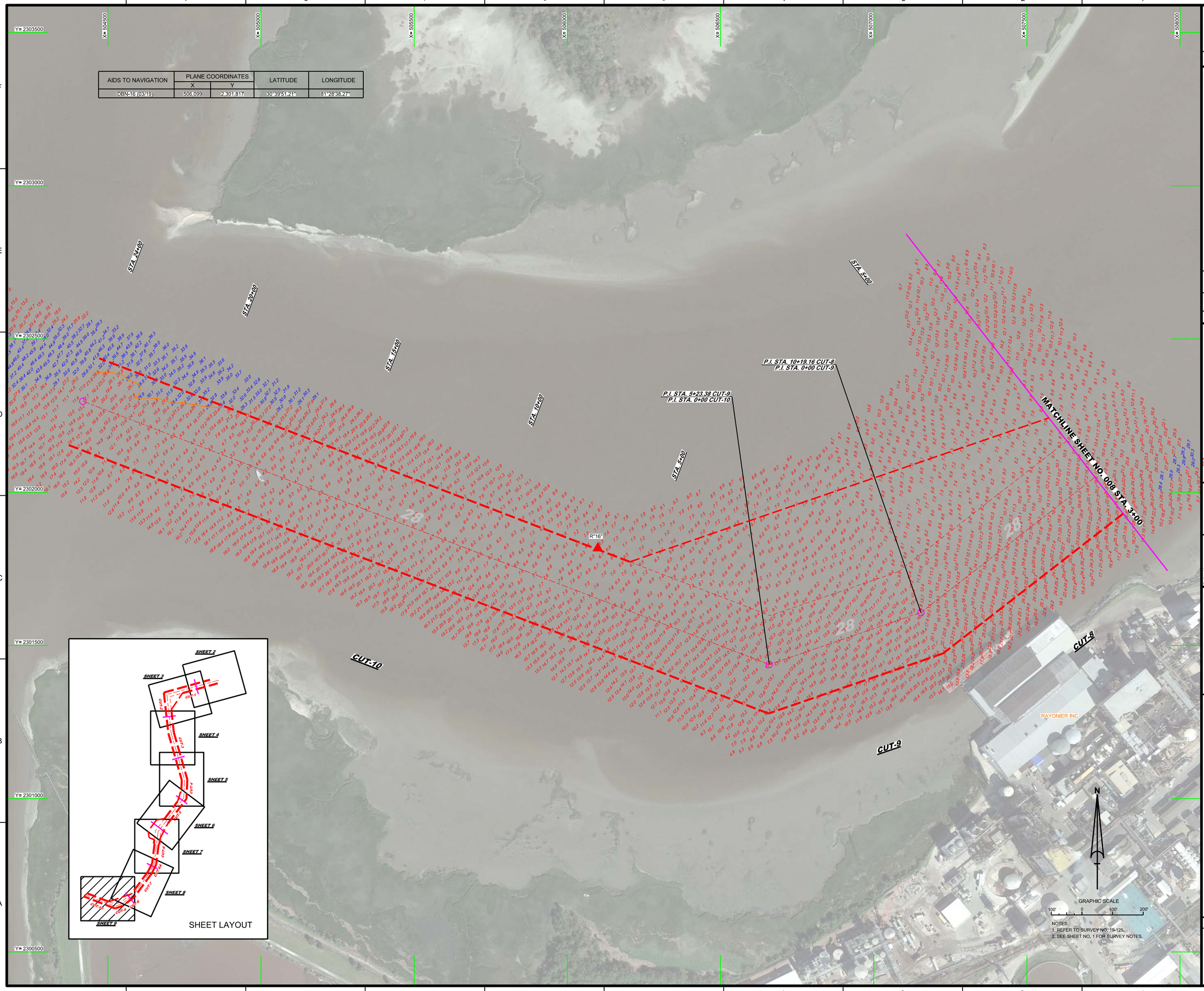
PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 09

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-16 (03/19)	506,099	2,301,817	30°39'51.21"	81°28'38.27"



NOTES:
1. REFER TO SURVEY NO. 19-125.
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: MRM
Drawn by: MRM
Checked by: GMR
Proj. No.
Date: MAR 2019

19-125>>CONS.DGN
19-125>>NAV.DGN
19-125>>SOUTH_CS.DGN
19-125>>SOUTH_CS_FLD.DGN
FERNANDINA HARBOR>>CADMOCF.DGN
19-125>>CS-SPGRA.DGN
Reference files
19-125>>HH09.DGN
File name:

FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28, 35 AND 36-FOOT PROJECT

AIWW UNCONTROLLED

PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 09