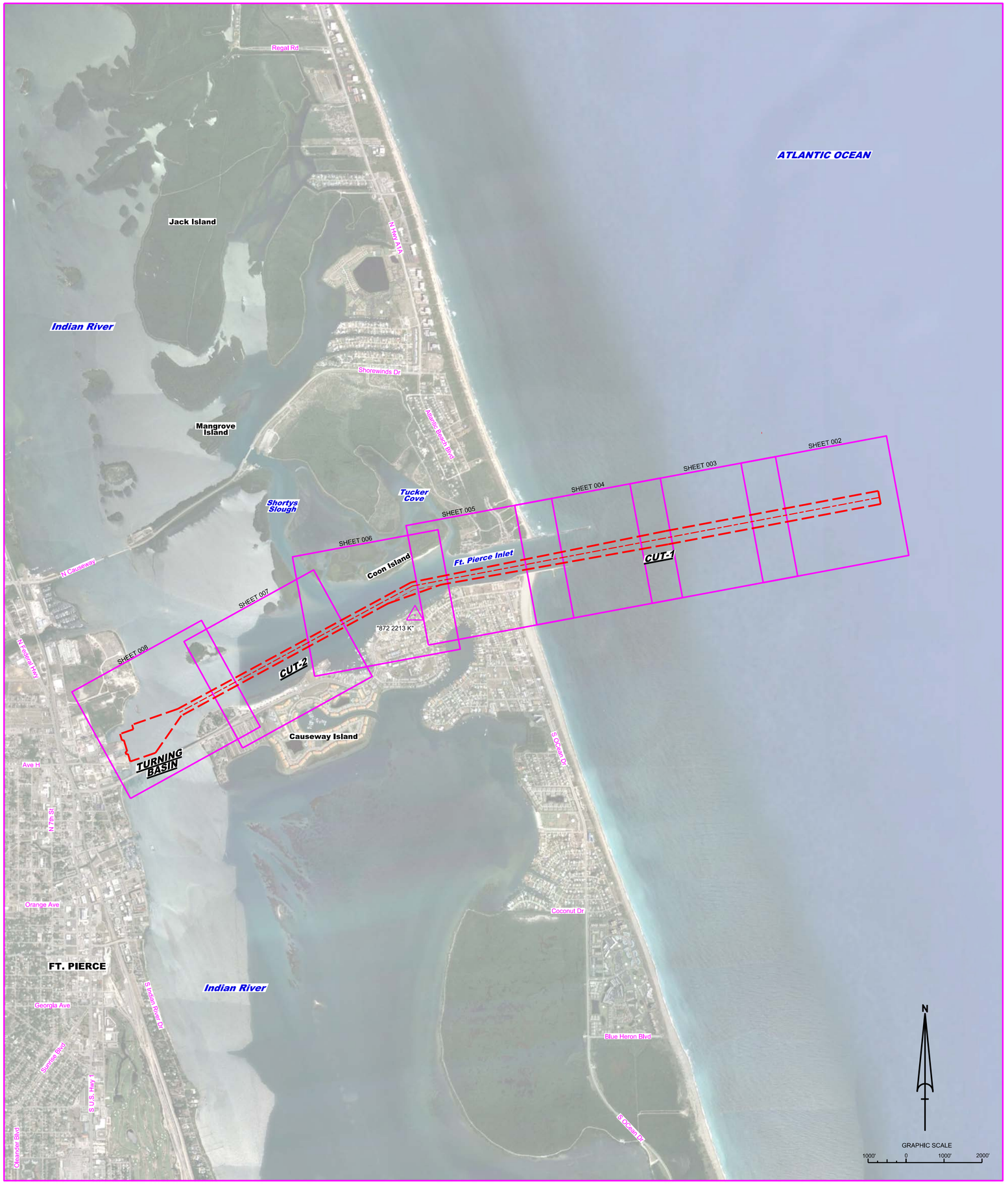
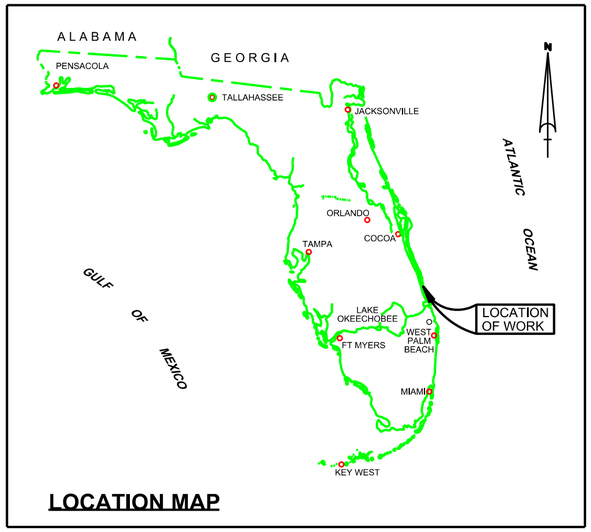




LOCATION MAP

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 19-051.
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: "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 LOCATIONS:

   REFERENCE BASE LOCATED AT "872 2213 K" (PID: DI3923)

   TIDE STAFF LOCATED AT "872 2213 K" (PID: DI3923)
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 BENCHMARK BELOW:

   NOAA TIDAL STATION 872-2213 FOR ALL CUTS.

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN SOUNDER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	04 JAN 2019	1, 2, TURNING 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 2013.

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: WRM
DWN by: WRM
Cad by: GMR
Prj. No. W912EP-XX-X-XXXX
Date: JAN 2019

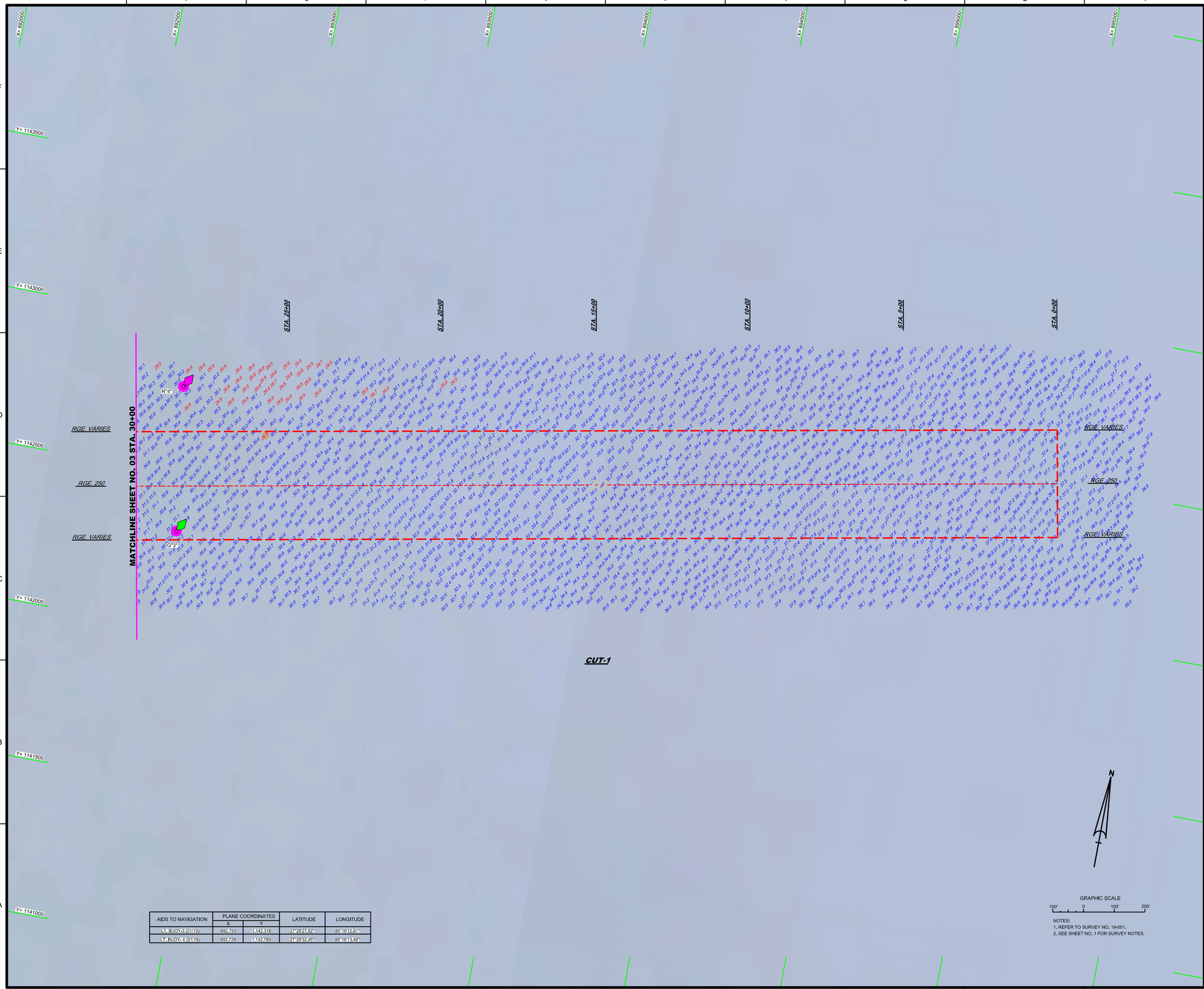
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
FORT PIERCE-C-NGMCCF.DGN
19051-CABS-BRDR.DGN
Reference files
19051-VH-001.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (01/19)	892,793	1,142,318	27°28'27.82"	80°16'12.81"
LT. BUOY- 4 (01/19)	892,729	1,142,785	27°28'32.45"	80°16'13.48"

NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Inv. No. W912EP-XX-X-XXXX
Dated: JAN 2019

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-051-V-NAV.DGN
19-051-V-CON30.DGN
19-051-V-SOUN_C1_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-G-BS-BRDR.DGN
File name: 19-051-VH-002.DGN

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

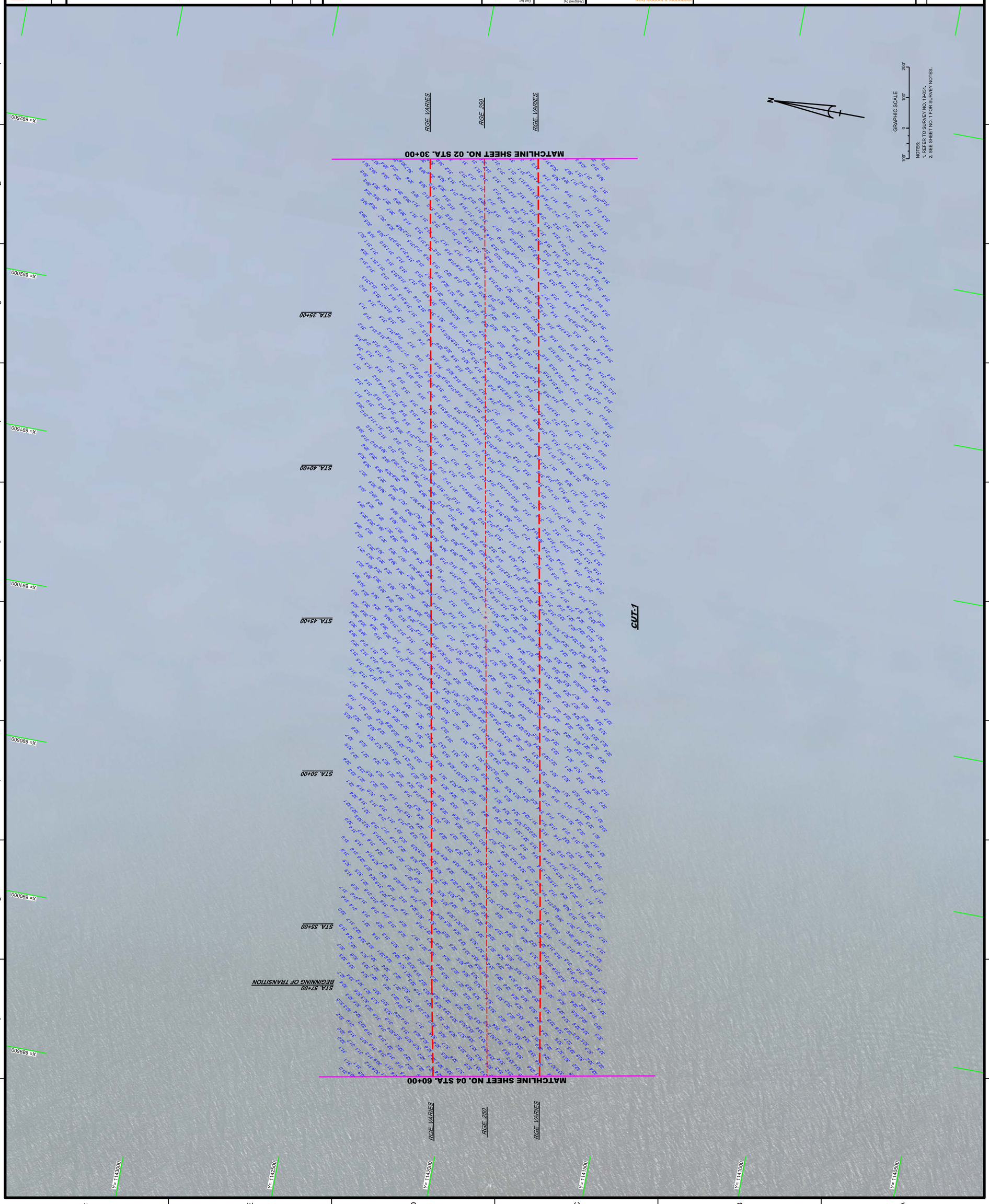
STA. 0+00 THRU STA. 30+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.
2

SHEET 02 OF 08



NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Chkd by: GMR
DWN by: WRM
Rev. No. W912EP-XX-X-XXXX
Dated: JAN 2019

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-051-V-SOUN_C1_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-G-BS-BRDR.DGN
Reference files:
19-051-VH-003.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

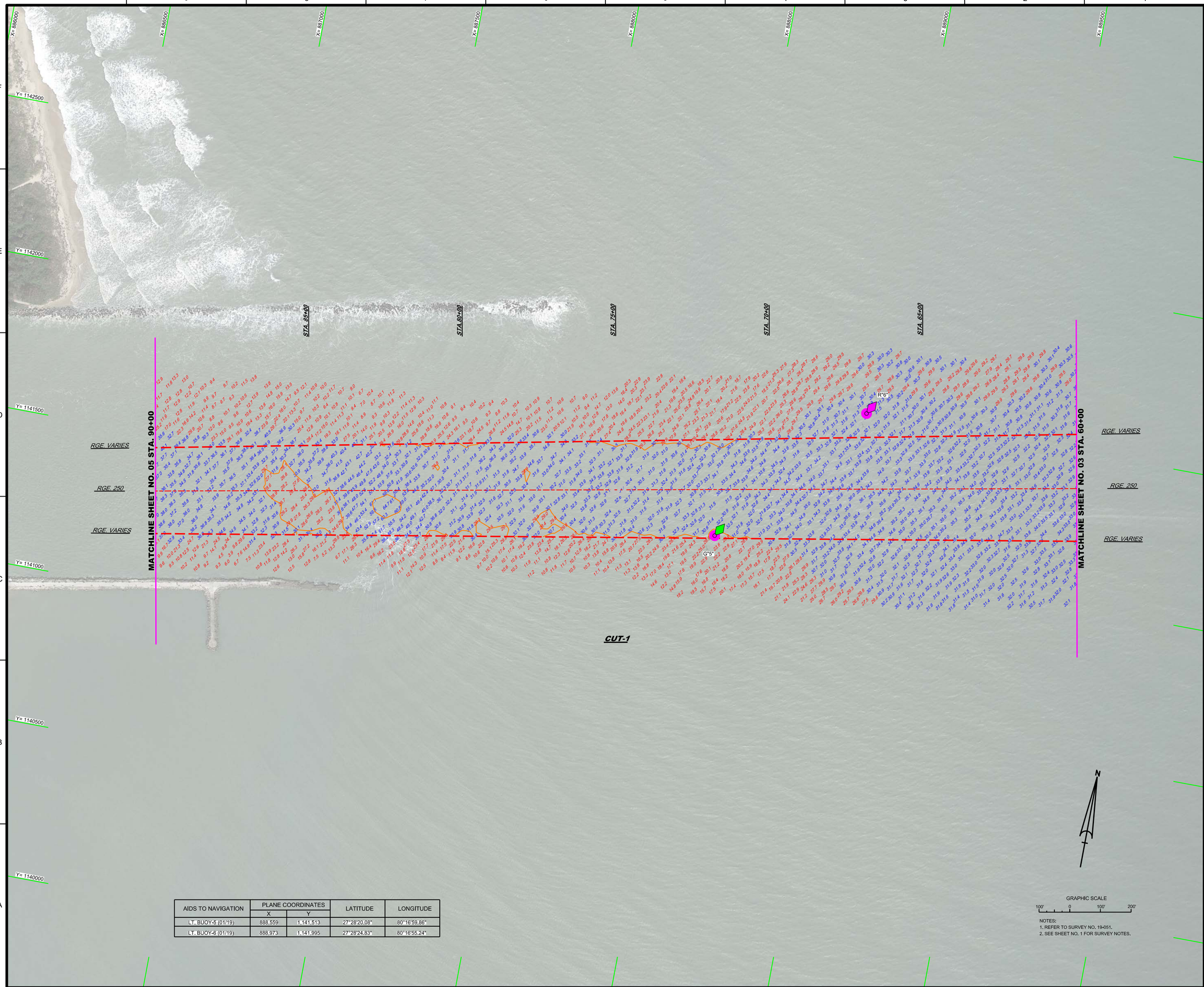
STA. 30+00 THRU STA. 60+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no. 3

SHEET 03 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-5 (01/19)	888,559	1,141,513	27°28'20.08"	80°16'59.86"
LT. BUOY-6 (01/19)	888,973	1,141,995	27°28'24.83"	80°16'55.24"

NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Inv. No. W912EP-XX-X-XXXX
Dated: JAN 2019

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-051-V-NAV.DGN
19-051-V-CON30.DGN
19-051-V-SOUN_C1_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-G-BS-BRDR.DGN
Reference files:
19-051-VH-004.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT
STA. 60+00 THRU STA. 90+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.
4

SHEET 04 OF 08

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-7 (01/19)	885,519	1,140,936	27°28'14.55"	80°17'33.65"
LT. BUOY-8 (01/19)	885,439	1,141,215	27°28'17.31"	80°17'34.52"
LT. BUOY-9 (01/19)	884,075	1,140,658	27°28'11.87"	80°17'49.69"
SIGN (01/19)	884,543	1,140,652	27°28'11.79"	80°17'44.51"
FRT RGE LT (01/19)	884,061	1,141,106	27°28'16.31"	80°17'49.83"

NOTES:
1. REFER TO SURVEY NO. 19-051.
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: JAN 2019

X:\XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-051-1A-CONSTB.DGN
19-051-1A-AVG.DGN
19-051-1A-SOUN_C1_LHF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-C-ESHRDR.DGN
Reference files:
19-051-V-H-005.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

STA. 90+00 THRU STA. 120+00 CUT-1

PLAN

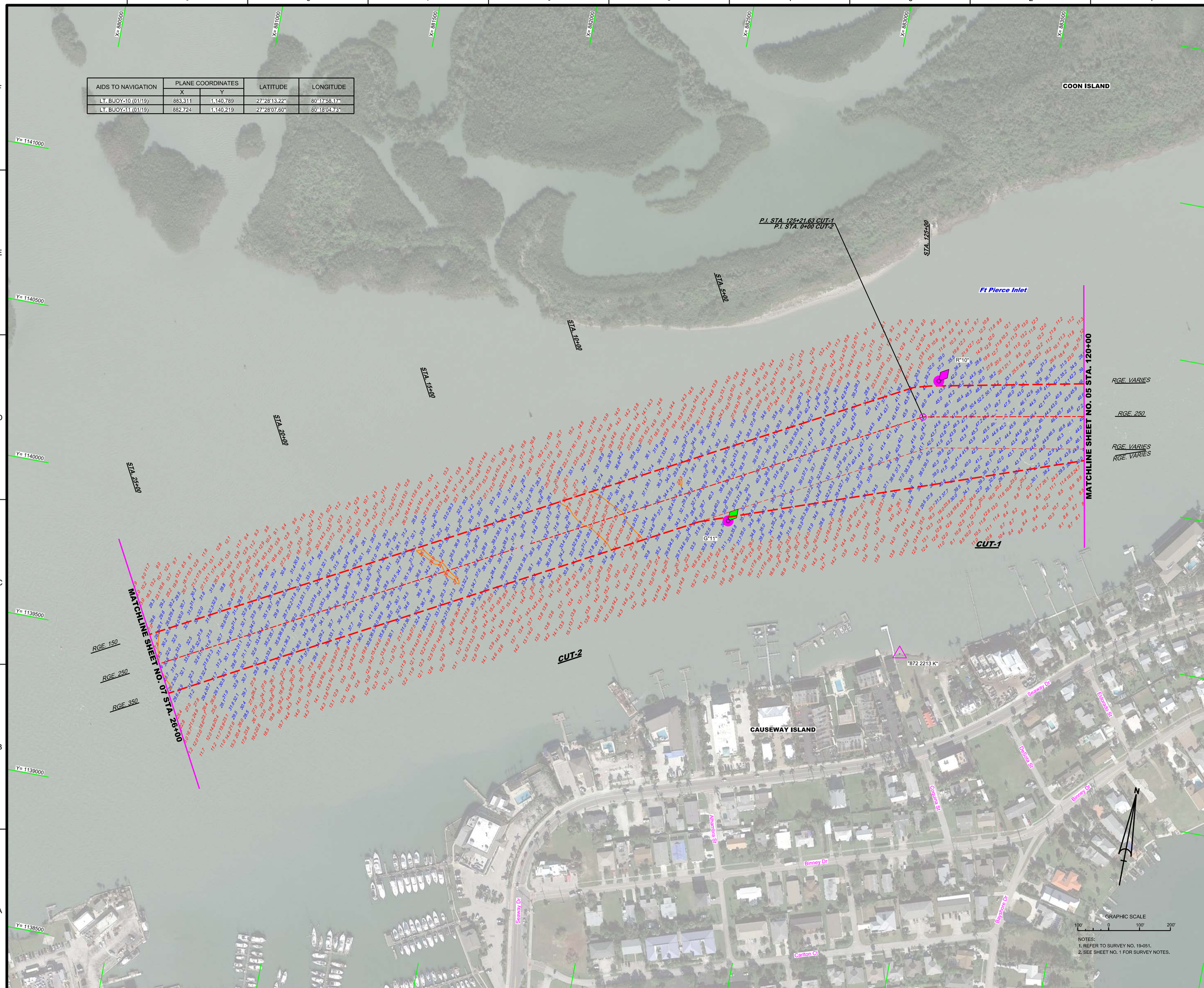
Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 08

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (01/19)	883,311	1,140,789	27°28'13.22"	80°17'58.17"
LT. BUOY-11 (01/19)	882,724	1,140,219	27°28'07.60"	80°18'04.73"



NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Ckd by: GMR
Rev. No.: V01(2EP-XX-X-XXXX
Date: JAN 2019

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
19-051-V-CON2ILD.DGN
19-051-V-NAV.DGN
19-051-V-SOUN_HF.DGN
19-051-V-SOUN_CI_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-V-SHSHDR.DGN
Reference files:
19-051-V-H006.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

STA. 120+00 CUT-1 THRU STA. 26+00 CUT-2

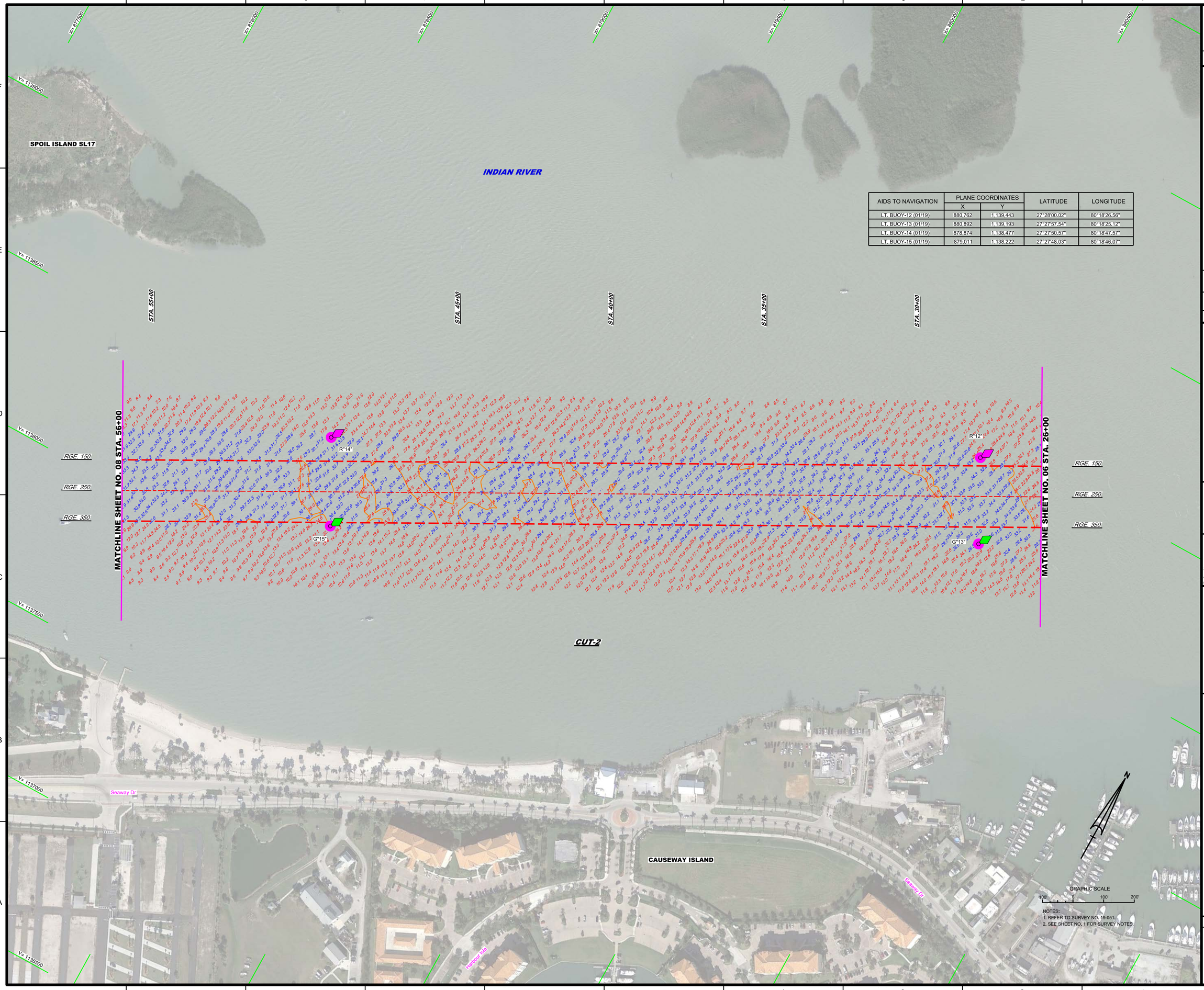
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-12 (01/19)	880,762	1,139,443	27°28'00.02"	80°18'26.56"
LT. BUOY-13 (01/19)	880,892	1,139,193	27°27'57.54"	80°18'25.12"
LT. BUOY-14 (01/19)	878,874	1,138,477	27°27'50.57"	80°18'47.57"
LT. BUOY-15 (01/19)	879,011	1,138,222	27°27'48.03"	80°18'46.07"

NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Ckd by: CMR
Rev. No.: V9123EP-XX-X-XXXX
Date: JAN 2019

X:\XXXXXXX-X-XXXXX.DGN
X:\XXXXXXX-X-XXXXX.DGN
X:\XXXXXXX-X-XXXXX.DGN
19-051-V-CONSTBLOG.DGN
19-051-V-MAP-01.DGN
19-051-V-SOUN_CC_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-V-PS-SHDR.DGN
Reference files:
19-051-V-H-007.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

STA. 26+00 THRU STA. 56+00 CUT-2

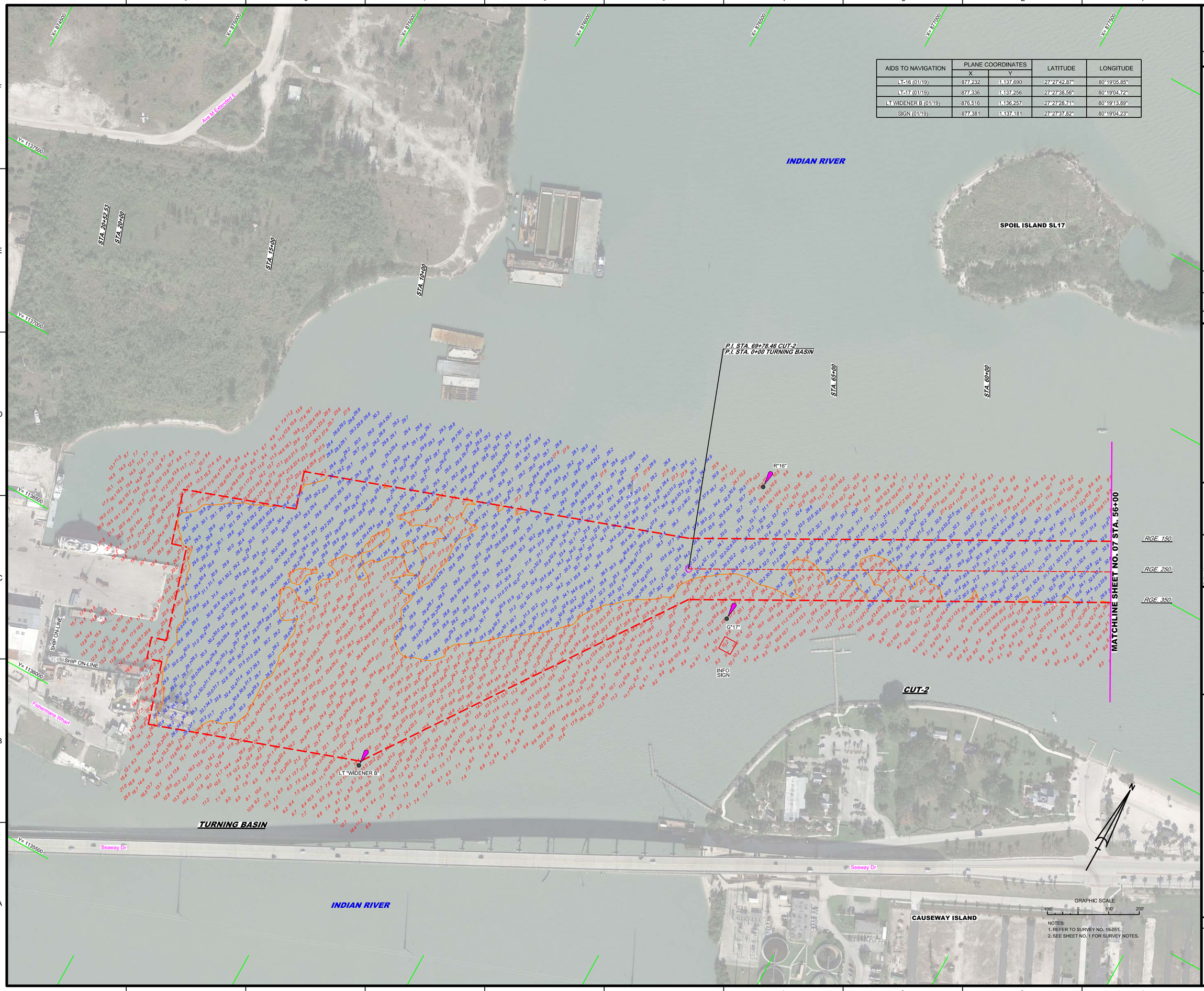
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-16 (01/19)	877,232	1,137,690	27°27'42.87"	80°19'05.85"
LT-17 (01/19)	877,336	1,137,256	27°27'38.56"	80°19'04.72"
LT WIDENER B (01/19)	876,516	1,136,257	27°27'28.71"	80°19'13.89"
SIGN (01/19)	877,381	1,137,181	27°27'37.82"	80°19'04.23"

NOTES:
1. REFER TO SURVEY NO. 19-051.
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
Inv. No. W912EP-XX-X-XXXX
Dated: JAN 2019

Reference files:
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-051-V-CON28.DGN
19-051-V-NAV.DGN
19-051-V-SOUN_TB_HF.DGN
19-051-V-SOUN_C2_HF.DGN
FORT PIERCE-C-NGMCCF.DGN
19-051-C-BS-BRDR.DGN
File name: 19-051-VH-008.DGN

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY19
28 & 30-FOOT PROJECT

STA. 56+00 CUT-2 THRU STA. 20+52.53 TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 08