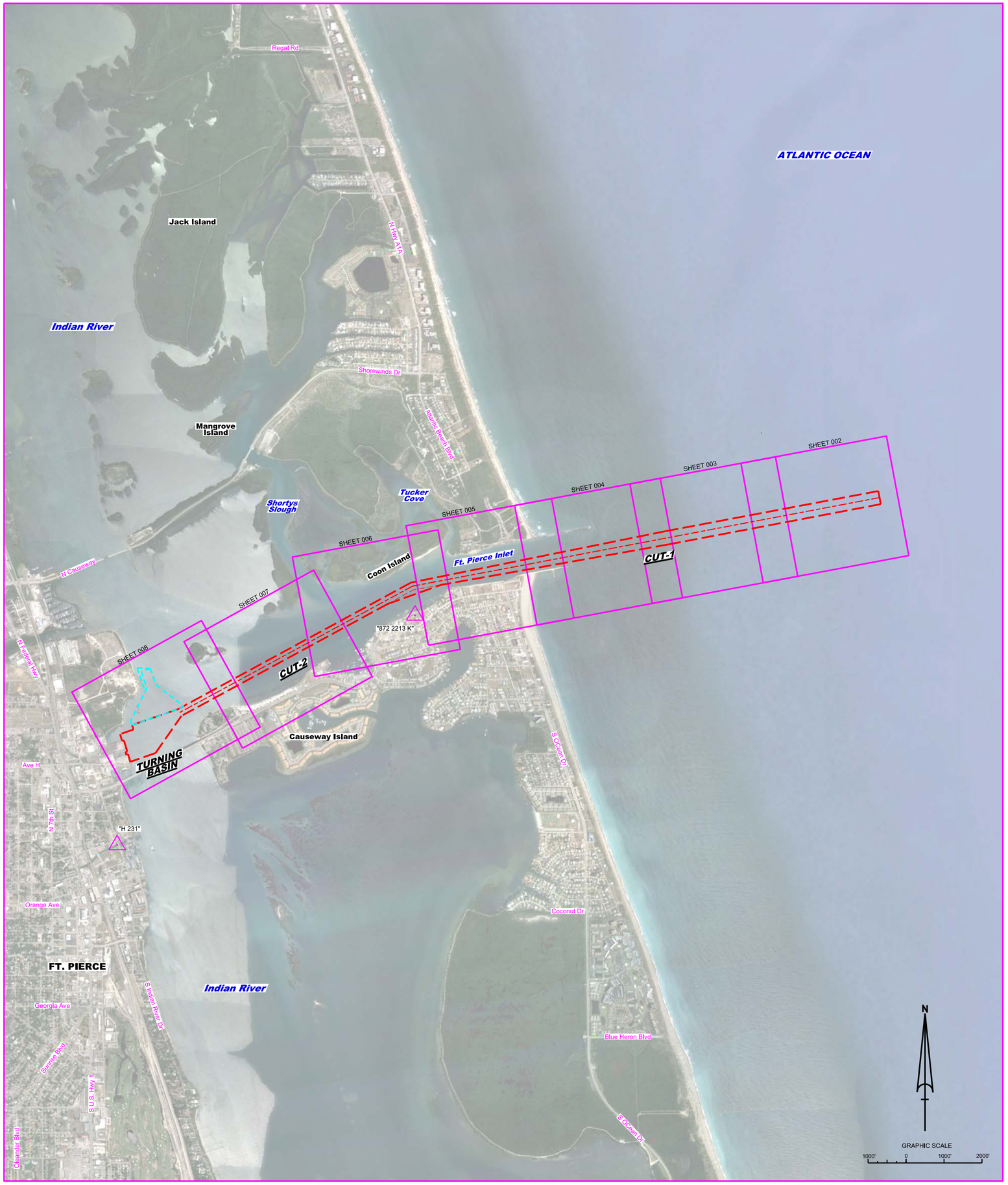
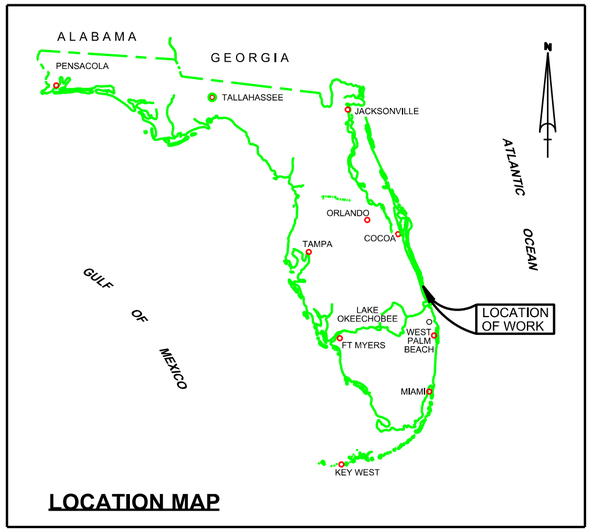




LOCATION MAP

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY
FY23
28 & 30-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 23-228.
2. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
3. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
4. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
5. 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)
6. 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 BENCHMARKS BELOW:

   NOAA TIDAL STATION 872-2213 FOR ALL CUTS

   VERTICAL MEASUREMENTS WERE MADE USING A PING DSP MULTI-BEAM / SIDESCAN SOUNDER AND AN ECHOTRAC E20 OPERATING AT 28 AND 200 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-44	20 SEP 2023	2, TURNING BASIN
SB-44	28 SEP 2023	1

7. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
8. 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.
9. 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

Cad by: GMR
Designed by: WRM
DWN by: WRM
Inv. No. W912EP-18-2-0003
Date: SEP 2023

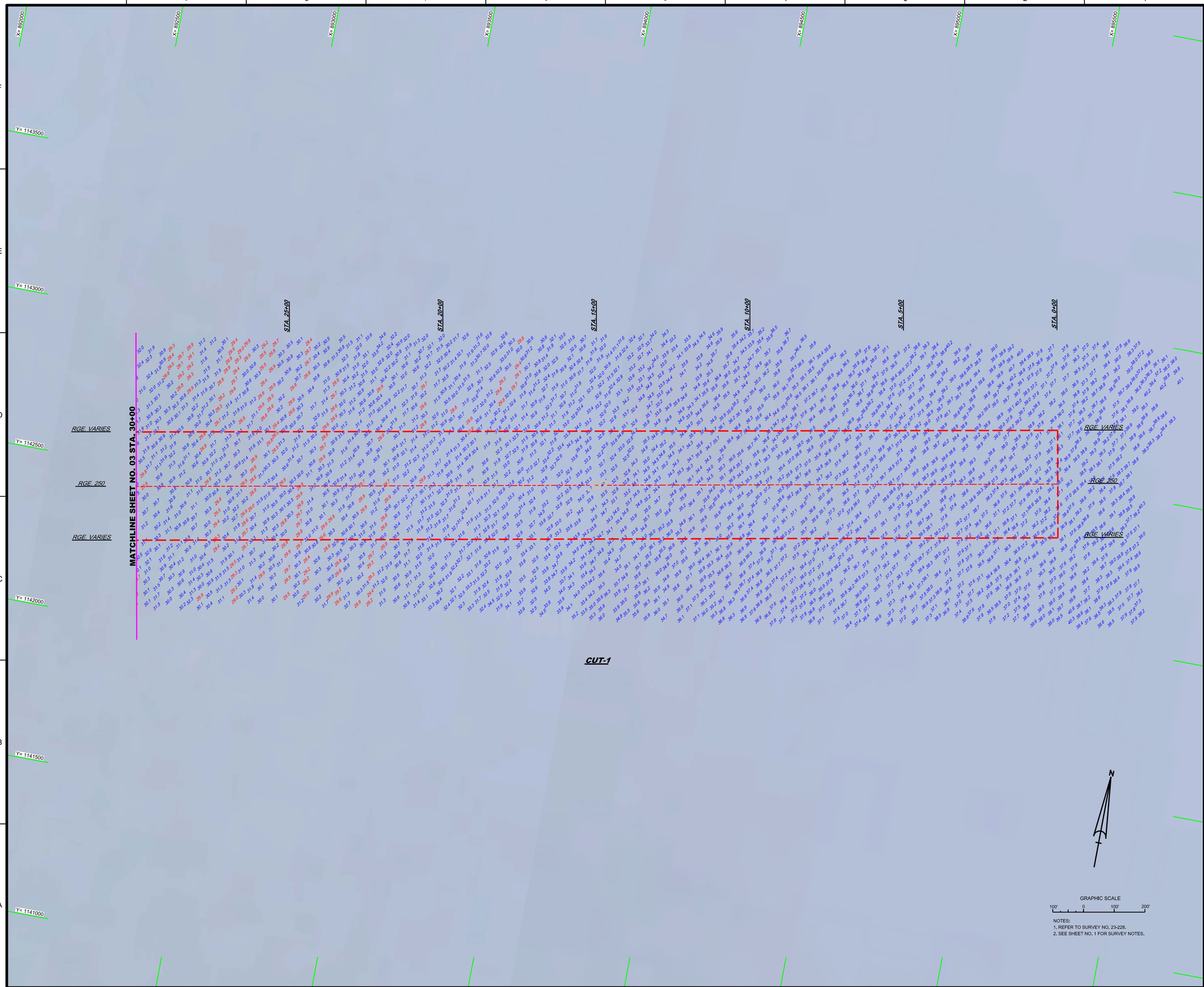
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
FORT PIERCE HARBOR-C-NGMCDF.DGN
23-228-04-SB-GR08.DGN
Reference files:
22-229-VH-001.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 08



NOTES:
1. REFER TO SURVEY NO. 23-228.
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.: V01FEP-18-2-0003
Date: SEP 2023

23-228-N-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCF.DGN
23-228-C-ESB-BRDR.DGN
Reference files:
23-228-VH-002.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT

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

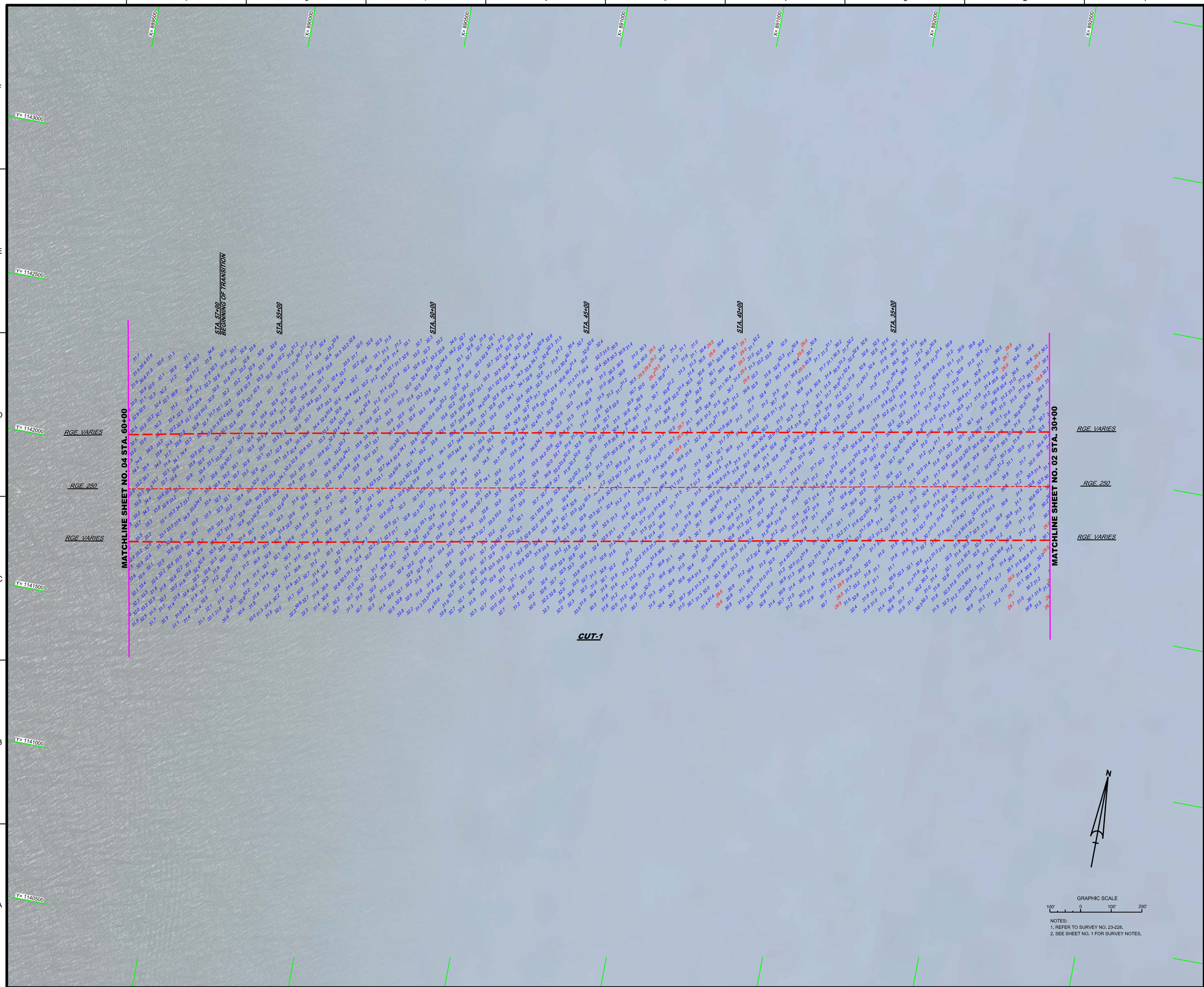
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 08



NOTES:
1. REFER TO SURVEY NO. 23-228.
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.: V91/2ESP-1B-2-0063
Date: SEP 2023

Reference files:
XXXXXXXX-XX-XXXXX.DGN
XXXXXXXX-XX-XXXXX.DGN
XXXXXXXX-XX-XXXXX.DGN
XXXXXXXX-XX-XXXXX.DGN
23-228A-VER-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228-CABS-BRDR.DGN
File name: 23-228-VH-003.DGN

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT

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

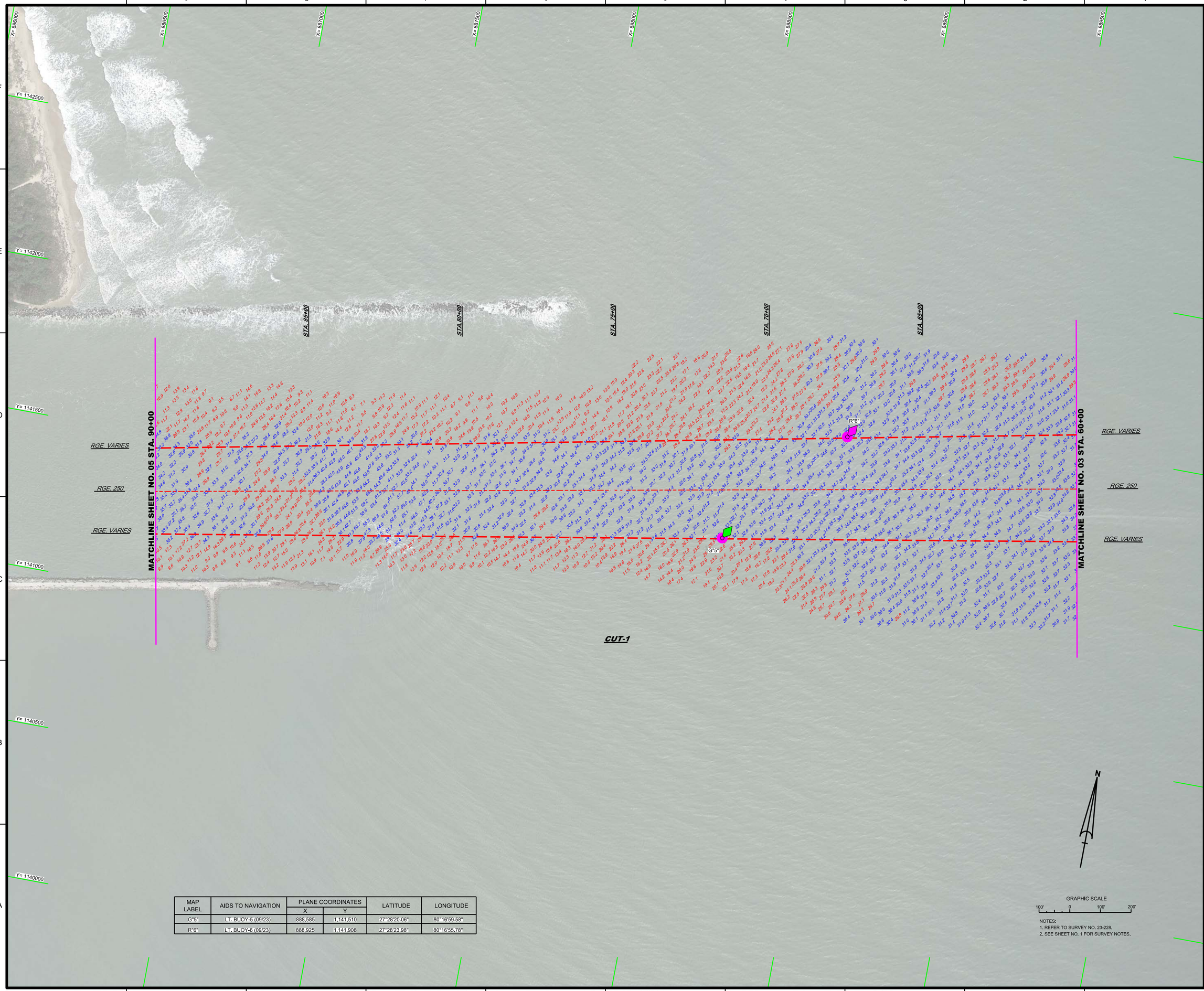
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 08



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (09/23)	888,585	1,141,510	27°28'20.06"	80°16'59.58"
R"6"	LT. BUOY-6 (09/23)	888,925	1,141,908	27°28'23.98"	80°16'55.78"

NOTES:
1. REFER TO SURVEY NO. 23-228.
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: GMR
Designed by: WRM
DWN by: WRM
Rev. No. V9123EP-18-5-0003
Date: SEP 2023

23-228JA-NAV.DGN
23-228-N-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228-C-BS-BNDR.DGN
Reference files:
23-228-VH-004.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT

STA. 60+00 THRU STA. 90+00 CUT-1

PLAN

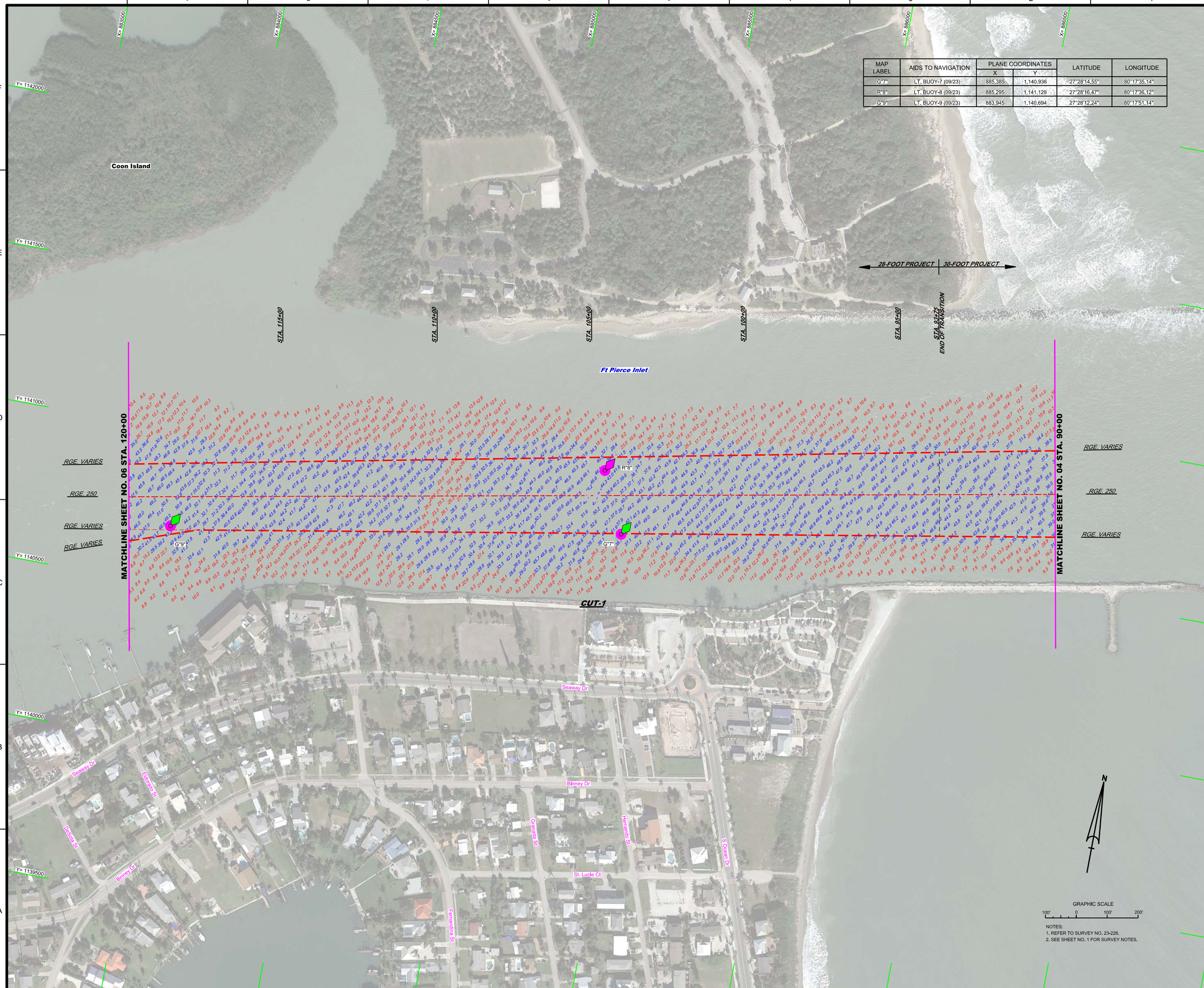
Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 08

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	LT. BUOY-7 (09/23)	885,385	1,140,936	27°28'14.55"	80°17'35.14"
R"8"	LT. BUOY-8 (09/23)	885,295	1,141,129	27°28'16.47"	80°17'36.12"
G"9"	LT. BUOY-9 (09/23)	883,945	1,140,694	27°28'12.24"	80°17'51.14"



NOTES:
1. REFER TO SURVEY NO. 23-228.
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
Chk'd by: CMR
Rev. No. V9123EP-18-3-C003
Date: SEP 2023

23-228A-NAV.DGN
23-228-N-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228-C-BS-BNDR.DGN
Reference files:
23-228-VH-005.DGN
File name:

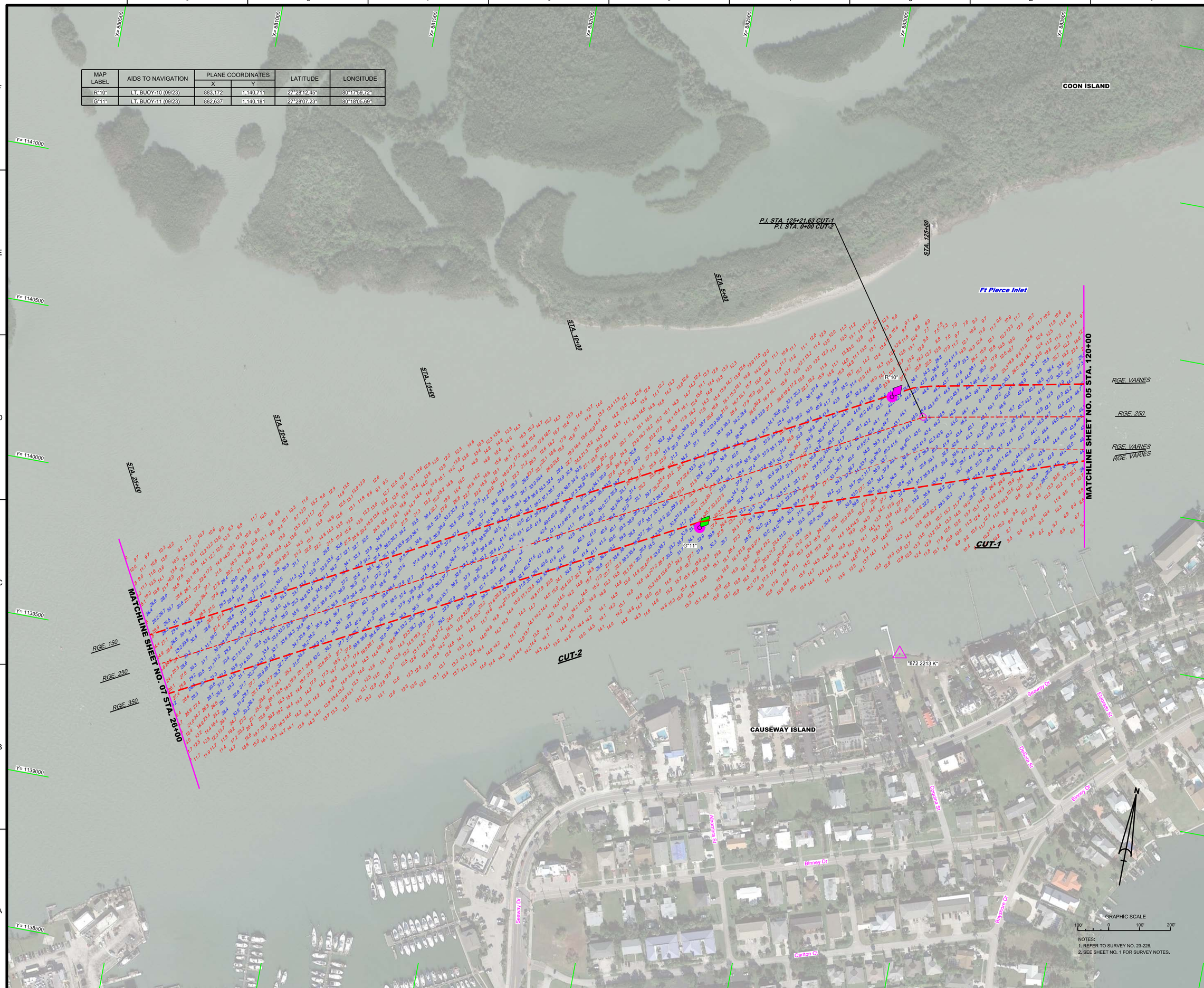
FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT
STA. 90+00 THRU STA. 120+00 CUT-1
PLAN

Scale: AS SHOWN

Drawing no.
5

SHEET 05 OF 08

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"10"	LT. BUOY-10 (09/23)	883,172	1,140,711	27°28'12.45"	80°17'59.72"
G"11"	LT. BUOY-11 (09/23)	882,637	1,140,181	27°28'07.23"	80°18'05.69"



NOTES:
1. REFER TO SURVEY NO. 23-228.
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
CHK by: CMR
Rev. No.: V9123EP-18-5-0003
Date: SEP 2023

23-228JA-MAU.DGN
23-228JA-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228JA-25-SHDR.DGN
Reference files:
23-228JA-H006.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT

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

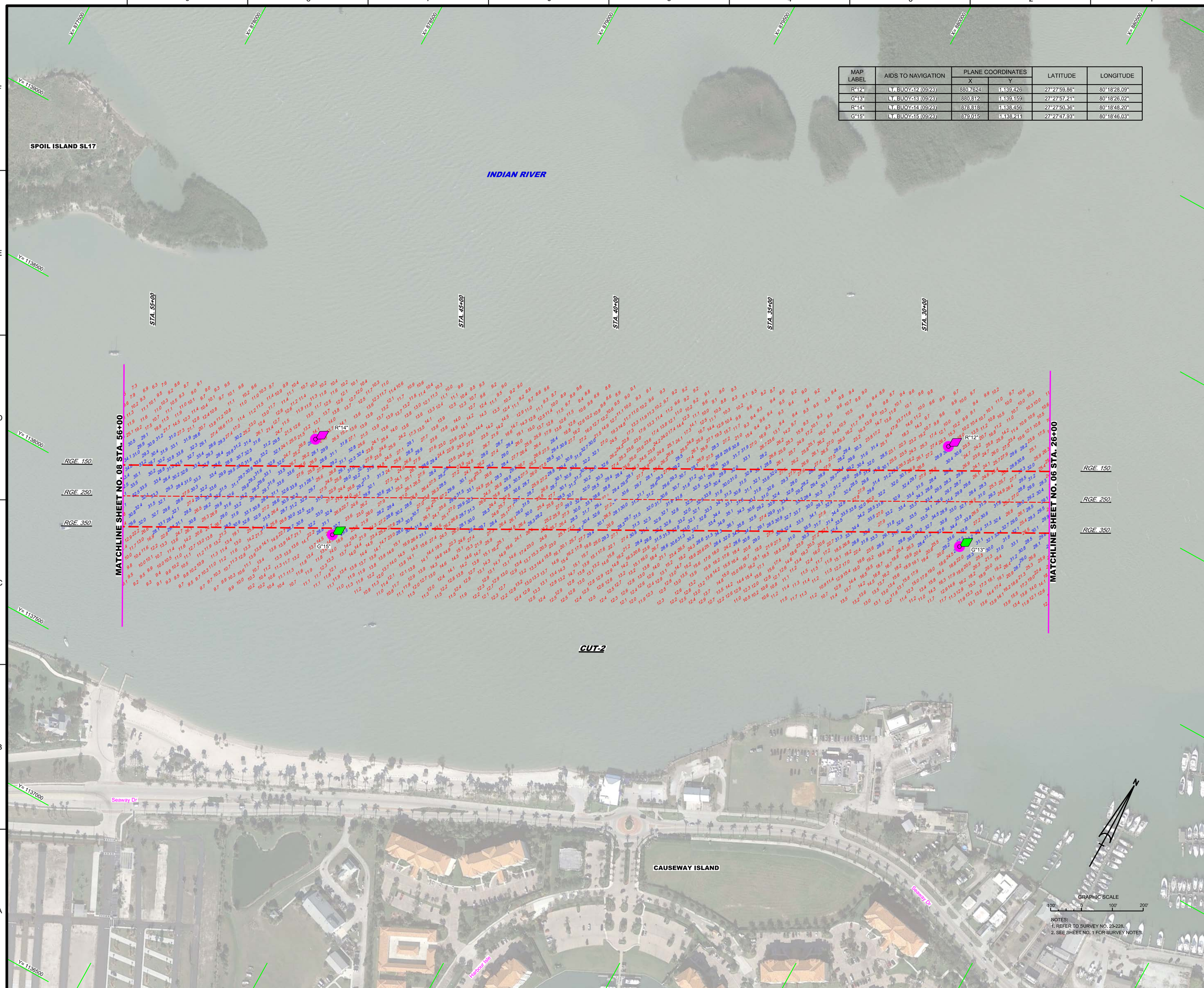
PLAN

Scale: AS SHOWN

Drawing no.
6

SHEET 06 OF 08

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12"	LT. BUOY-12 (09/23)	880,762.4	1,139,426	27°27'59.86"	80°18'28.09"
G"13"	LT. BUOY-13 (09/23)	880,812	1,139,159	27°27'57.21"	80°18'26.02"
R"14"	LT. BUOY-14 (09/23)	878,818	1,138,456	27°27'50.36"	80°18'48.20"
G"15"	LT. BUOY-15 (09/23)	879,015	1,138,211	27°27'47.93"	80°18'46.03"



NOTES:
1. REFER TO SURVEY NO. 23-228.
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-18-D-0003
Date: SEP 2023

23-228A-MAI.DGN
23-228-N-SOUN_ALLCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228-C-BS-BNDR.DGN
Reference files:
23-228-VH-007.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
28 & 30-FOOT PROJECT

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

PLAN

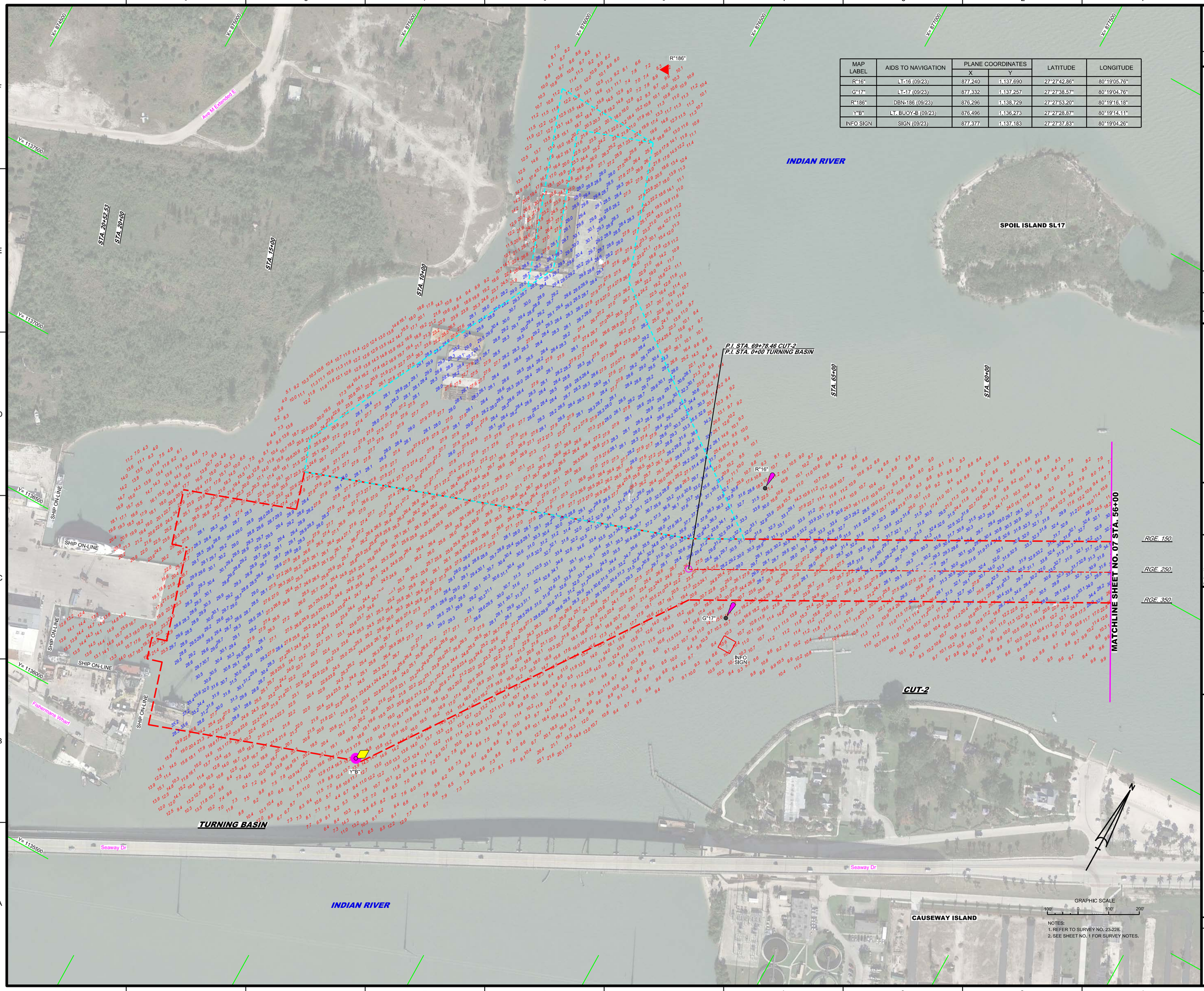
Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 08

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"16"	LT-16 (09/23)	877,240	1,137,690	27°27'42.86"	80°19'05.76"
G"17"	LT-17 (09/23)	877,332	1,137,257	27°27'38.57"	80°19'04.76"
R"186"	DBN-186 (09/23)	876,296	1,138,729	27°27'53.20"	80°19'16.18"
Y"B"	LT. BUOY-B (09/23)	876,496	1,136,273	27°27'28.87"	80°19'14.11"
INFO SIGN	SIGN (09/23)	877,377	1,137,183	27°27'37.83"	80°19'04.26"



NOTES:
1. REFER TO SURVEY NO. 23-228.
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-18-D-0003
Date: SEP 2023

23-228JA-MAU.DGN
23-228JA-SOUN_ALCUTS.DGN
FORT PIERCE HARBOR-C-NGMCCF.DGN
23-228JA-CS-SHDR.DGN
Reference files:
23-228JA-H-008.DGN
File name:

FT. PIERCE HARBOR
ST. LUCIE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
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