

# MIAMI HARBOR DADE COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY20

### SURVEY NOTES

- REFER TO SURVEY NOS. 20-141.
  - SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
  - TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL NAMED "BROWARD-MIAMIDADE-MONROE-COLLIER\_2018 05 02.KTD".
  - ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
  - PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983, REALIZATION OF 2007 (NAD83(2007)).
  - ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
  - THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:  
REFERENCE BASE LOCATED AT "USCG MIAMI ARP" (OPUS PID: BBDD68)  
TIDE STAFF SET NEAR BAYSIDE MARINA FROM "MH-16 RM-1" (PID: AC2178)
  - 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 GAGE SITE SPECIFIED BELOW:  
NOAA TIDAL STATION 872-3165 MIAMI BISCAYNE BAY, FLORIDA FOR ALL CUTS.
  - VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2026 MULTI-BEAM SYSTEM AND A ROSS MODEL 835 SMART SOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- | VESSEL        | DATE OF SURVEY  | CUT  |
|---------------|-----------------|--|
| SV FLORIDA II | 24-25 JUL 2020  | CUT-1, CUT-2   |
| SV FLORIDA II | 23, 30 JUL 2020 | SOUTHSIDE SHIP CHANNEL, LUMMUS AND DODGE ISLAND CUTS |
| SV FLORIDA II | 25 JUL 2020     | CUTS 2, 3, 4 AND TURNING BASIN                       |
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
  - 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.
  - 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 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 10.

LEGEND	
	GPS MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

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JACKSONVILLE, FLORIDA

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MIAMI HARBOR, FLORIDA  
DADE COUNTY, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY20  
35, 36, 50 AND 52-FOOT PROJECT**  
INDEX, LOCATION AND VICINITY  
**MAP**

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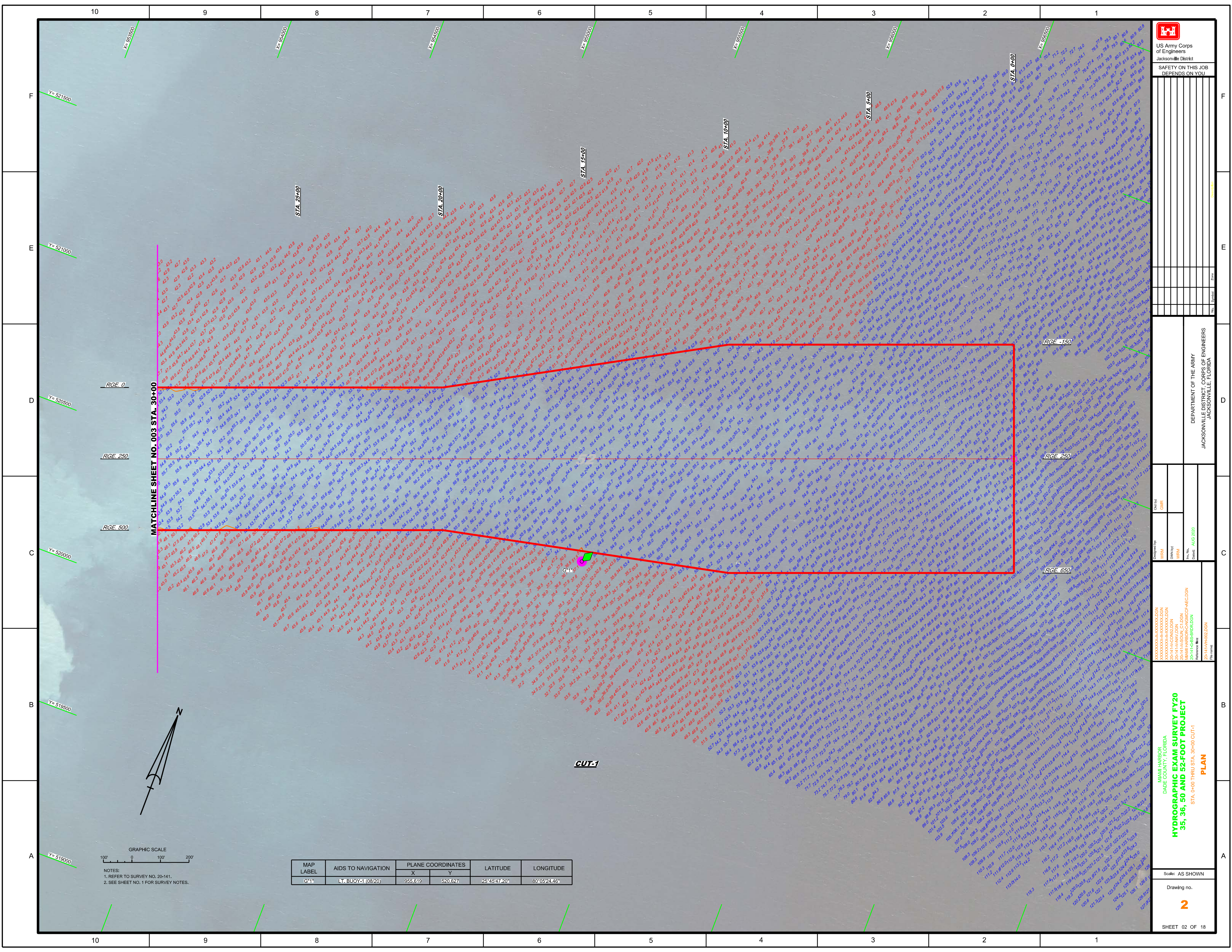
Scale: AS SHOWN

Drawing no.  
**1**

SHEET 01 OF 18







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 JACKSONVILLE, FLORIDA

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MAMI HARBOR
   
 DADE COUNTY, FLORIDA
   
 HYDROGRAPHIC EXAM SURVEY FY20
   
 35, 36, 50 AND 52-FOOT PROJECT
   
 STA. 0+00 THRU STA. 30+00 CUT-1
   
**PLAN**

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Scale: AS SHOWN
   
 Drawing no.
   
**2**

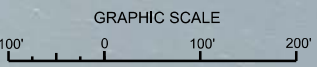
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SHEET 02 OF 18

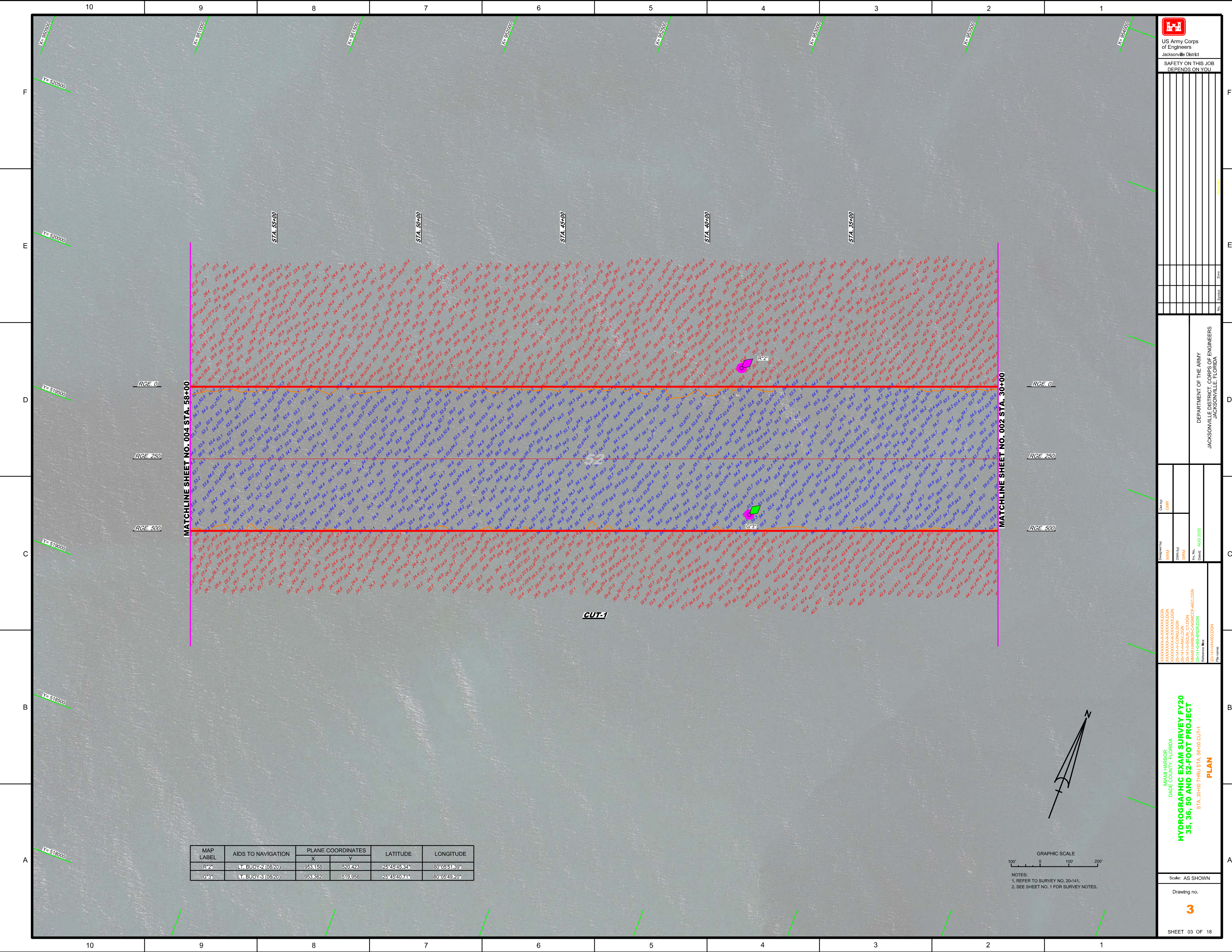
MATCHLINE SHEET NO. 003 STA. 30+00

NOTES:  
 1. REFER TO SURVEY NO. 20-141.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G-41	BUOY (0820)	955.619	520.627	25°45'47.20"	80°05'24.46"








MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R-2*	LT BUOY-2 (08/20)	953.158	520.423	25°48'45.34"	80°05'51.39"
G-3*	LT BUOY-3 (08/20)	953.362	519.956	25°45'40.71"	80°05'49.20"



NOTES:  
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 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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Designed by: WRM  
 Drawn by: WRM  
 Checked: AUG 2020

Client: GHR  
 Project: MAMI HARBOR EXAM SURVEY FY20  
 STA. 30+00 THRU STA. 58+00 CUT-1  
 Reference: MAMI HARBOR EXAM SURVEY FY20  
 STA. 30+00 THRU STA. 58+00 CUT-1

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**HYDROGRAPHIC EXAM SURVEY FY20  
 35, 36, 50 AND 52-FOOT PROJECT**  
**PLAN**

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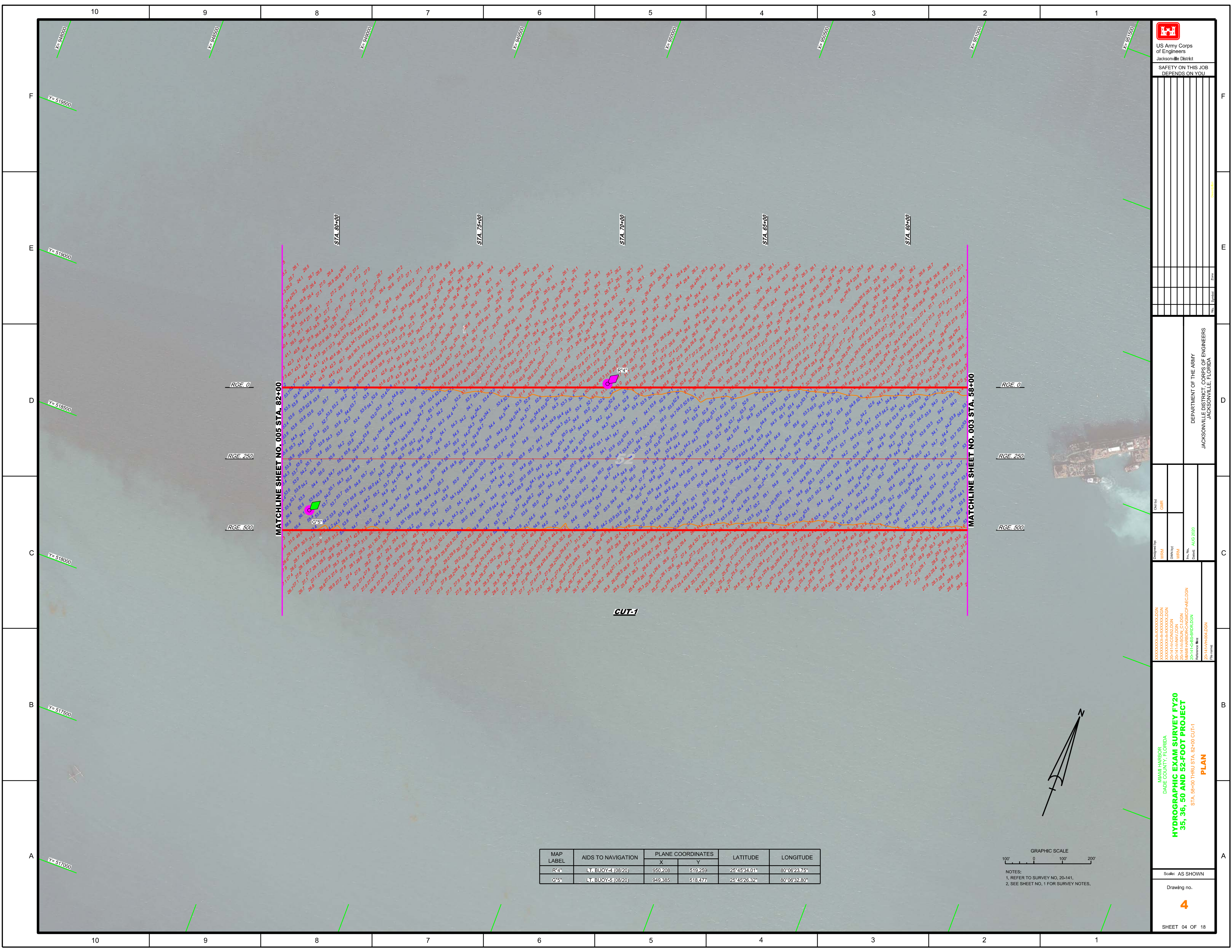
Scale: AS SHOWN

Drawing no. **3**

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SHEET 03 OF 18





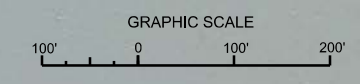

  
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 JACKSONVILLE, FLORIDA

MAMI HARBOR  
 DADE COUNTY, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY20**  
**35, 36, 50 AND 52-FOOT PROJECT**  
 STA. 59+00 THRU STA. 82+00 CUT-1  
**PLAN**

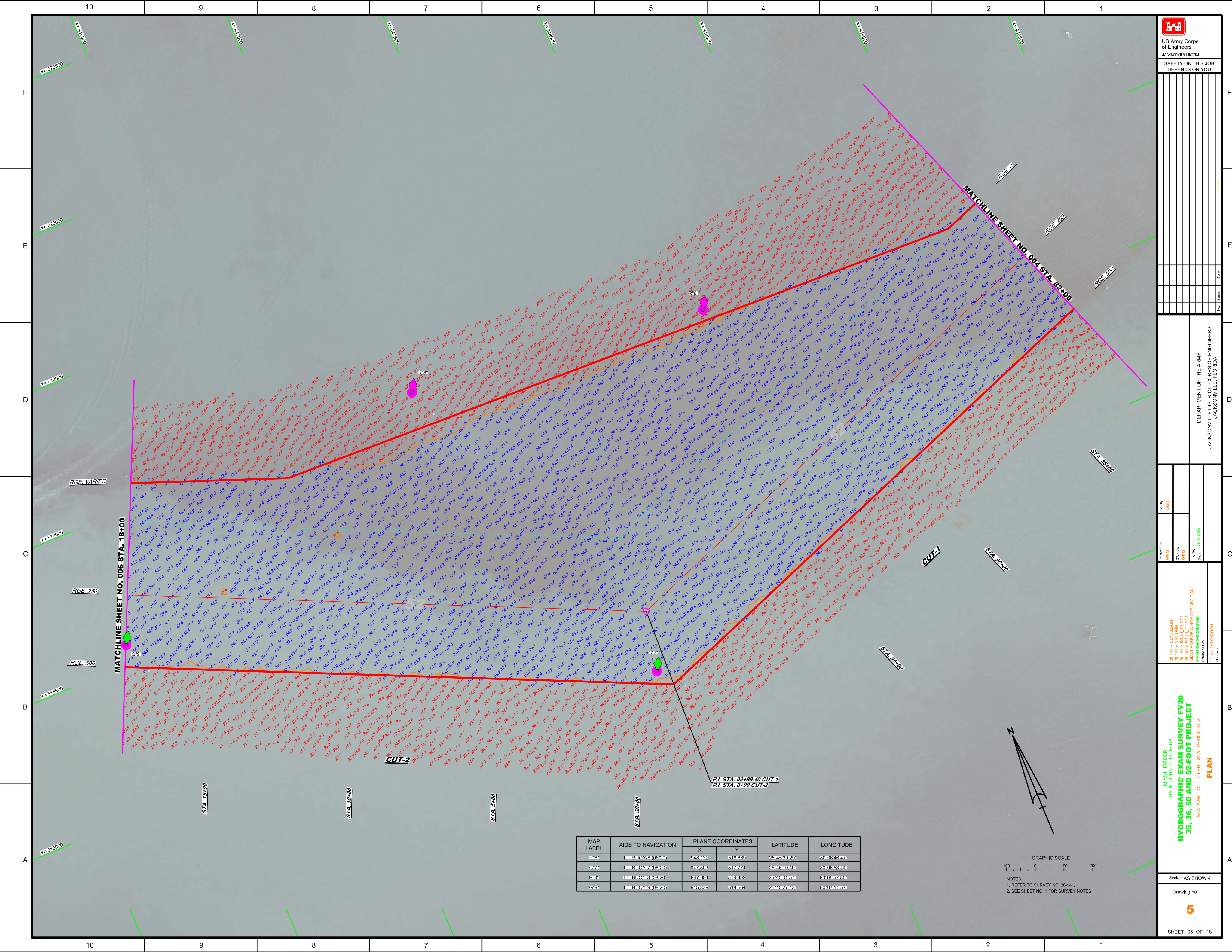
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**4**  
 SHEET 04 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R-4	LT. BUOY-4 (08/20)	950,208	519,259	25°45'34.01"	80°06'23.75"
G-5	LT. BUOY-5 (08/20)	949,385	518,477	25°45'26.32"	80°06'32.80"



NOTES:  
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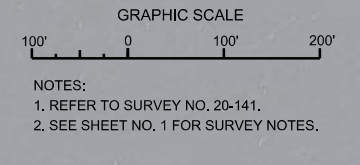
Checked By: GHR  
Designed By: WRM  
Drawn By: WRM  
Reference Date: AUG 2020

20-14-CON-02/DON  
20-14-AM-10/DON  
20-14-AM-10/CLDOR  
20-14-CON-02/CLDOR  
20-14-CON-02/CACOF-AE/CLDOR  
20-14-HR-BS-BRID/CLDOR  
20-14-HR-02/CLDOR

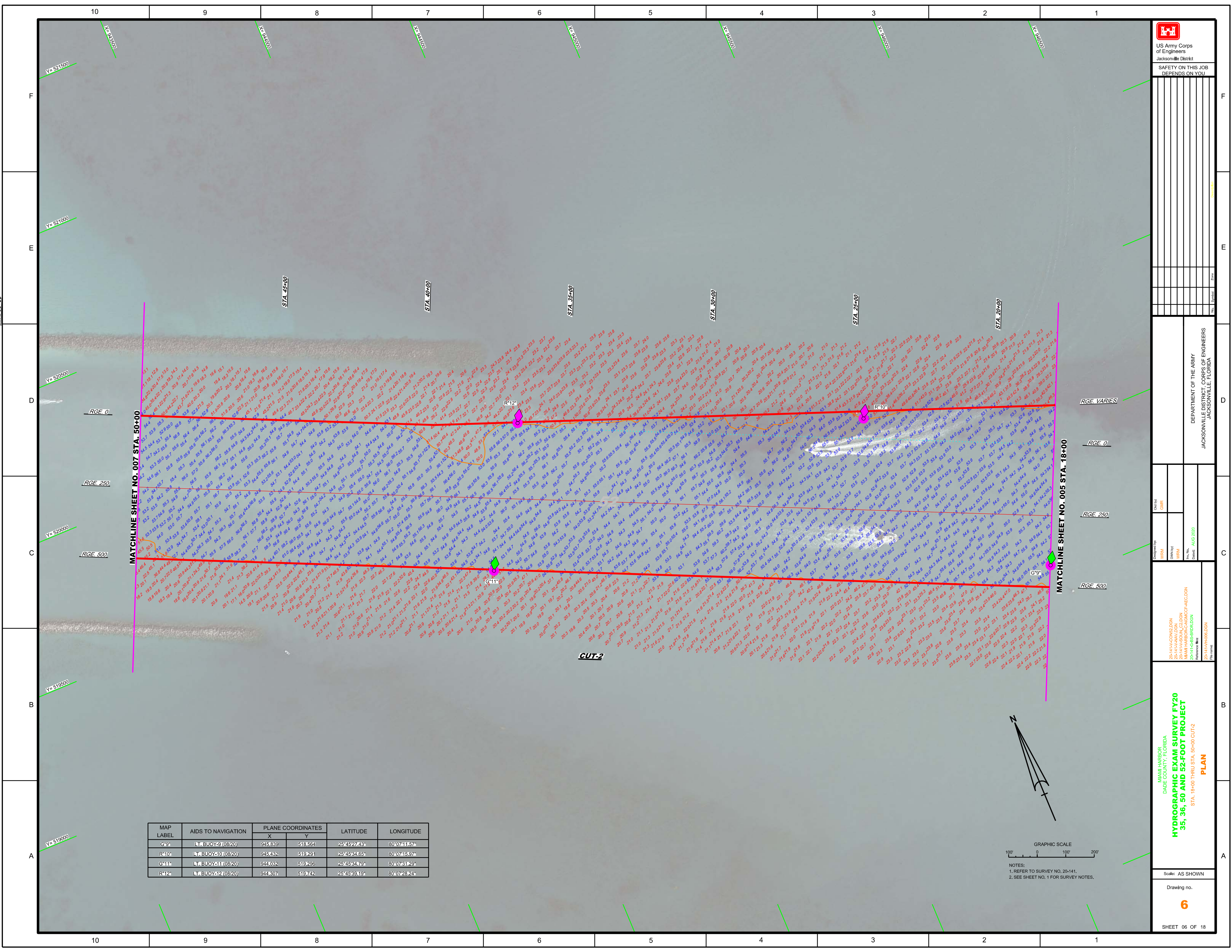
MAMI HARBOR  
DADE COUNTY, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY20  
35, 36, 50 AND 52-FRUG PROJECT**  
STA. 82+00 CUT-1 THRU STA. 18+00 CUT-2  
**PLAN**

Scale: AS SHOWN  
Drawing no. **5**  
SHEET 05 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R6*	LT. BUOY-6 (08/20)	948.132	518.859	25 45 30.29"	80 06 46.47"
G7*	LT. BUOY-7 (08/20)	947.503	517.774	25 45 19.49"	80 06 53.44"
R8*	LT. BUOY-8 (08/20)	947.091	518.992	25 45 11.57"	80 06 57.85"
G9*	LT. BUOY-9 (08/20)	945.839	518.564	25 45 27.43"	80 07 11.57"







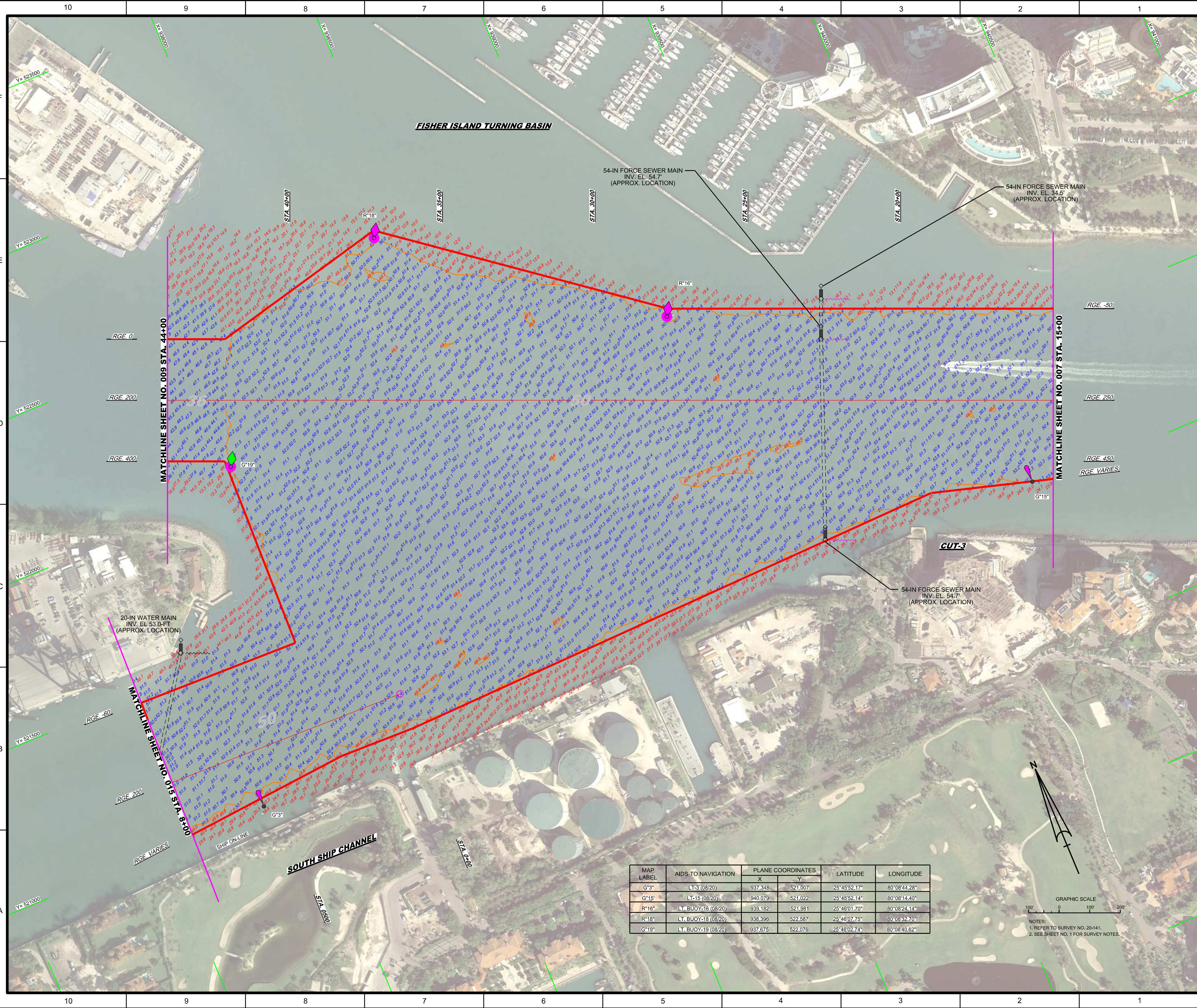
MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G11	LT BUIOY 11 (0820)	945339	518564	25°45'27.45"	80°07'11.57"
R10	LT BUIOY 10 (0820)	945432	519291	25°45'34.65"	80°07'15.97"
G11	LT BUIOY 11 (0820)	944032	519266	25°45'34.76"	80°07'31.29"
R12	LT BUIOY 12 (0820)	944307	519742	25°45'39.19"	80°07'28.24"

GRAPHIC SCALE  
100' 0 100' 200'  
NOTES:  
1. REFER TO SURVEY NO. 20-141.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.









**FISHER ISLAND TURNING BASIN**

54-IN FORCE SEWER MAIN  
INV. EL. 54.7  
(APPROX. LOCATION)

54-IN FORCE SEWER MAIN  
INV. EL. 34.5  
(APPROX. LOCATION)

54-IN FORCE SEWER MAIN  
INV. EL. 54.7  
(APPROX. LOCATION)


20-IN WATER MAIN  
INV. EL. 53.0-FT  
(APPROX. LOCATION)

**SOUTH SHIP CHANNEL**

**CUT-3**

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*3	LT-3 (08/20)	937,348	521,007	25°45'52.17"	80°08'44.26"
G*15	LT-15 (08/20)	940,079	521,022	25°45'52.14"	80°08'14.40"
R*16	LT, BUOY-16 (08/20)	939,182	521,981	25°46'01.70"	80°08'24.14"
R*18	LT, BUOY-18 (08/20)	938,396	522,587	25°46'07.75"	80°08'32.70"
G*19	LT, BUOY-19 (08/20)	937,675	522,076	25°46'02.74"	80°08'40.62"

GRAPHIC SCALE  
100' 0 100' 200'  
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Checked By: GRJ  
Designed By: WRM  
Drawn By: WRM  
In Charge: WRM  
Date: AUG 2020

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20-141-A-CO-0000  
20-141-A-AV-000  
20-141-A-SO-000  
20-141-A-BS-000  
20-141-A-BS-000  
20-141-A-BS-000

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MAMI HARBOR  
DADE COUNTY, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY20  
35, 36, 50 AND 52-FOOT PROJECT**  
STA. 15+00 THRU STA. 44+00 CUT-3 AND  
STA. 0+00 THRU STA. 8+00 SOUTH SHIP CHANNEL  
**PLAN**

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Scale: AS SHOWN

Drawing no.  
**8**

SHEET 08 OF 18





MATCHLINE SHEET NO. 010 STA. 23+00

MATCHLINE SHEET NO. 008 STA. 44+00

RGE 00  
RGE 200  
RGE 400

RGE 00  
RGE 200  
RGE 400

20' W.M.

GRAPHIC SCALE  
0 100' 200'

NOTES:  
1. REFER TO SURVEY NO. 20-141.  
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