LOCATION MAP

MIAMI HARBOR
DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY
FY19

SURVEY NOTES

1. REFER TO SURVEY NOS. 19-138.
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 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".
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, REALIZATION OF 2007 (NAD83(2007)).
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 "USCG MIAMI ARP" (OPUS PID: BBDD68)

   TIDE STAFF SET NEAR BAYSIDE MARINA FROM "MH-16 RM-1" (PID: AC2178)
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 GAGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION 872-3165 MIAMI BISCAYNE BAY, FLORIDA FOR ALL CUTS.
9. 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	18 MAY 2019	CUT-4, SOUTHSIDE SHIP CH., LITB, DODGE ISLAND
SV FLORIDA II	19 MAY 2019	CUT-1, CRUISE SHIP BERTHS
SV FLORIDA II	20 MAY 2019	CUTS 2 & 3, TURNING BASIN

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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
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
Rev. No.
Date: MAY 2019

19-138-V-INDX.DGN
MIAMI HARBOR-C-NGMCF.DGN
19-138-C-BR-BRDR.DGN
Reference files
19-138-VH-001.DGN
File name

MIAMI HARBOR
DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT. BUOY-1 (05/19)	955,608	520,668	25°45'47.60"	80°05'24.57"

NOTES:
1. REFER TO SURVEY NO. 19-138.
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
Drawn by: VIRM
Checked by: CMR
Date: MAY 2019
Rev. No.

XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
19-138-M-CONSZ.DGN
19-138-M-SOUN_C1.DGN
19-138-M-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCCF_PROPOSED.DGN
19-138-M-SB-SNDR.DGN
Reference files
19-138-WH-002.DGN
File name

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

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

PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2"	LT. BUOY-2 (05/19)	953,140	520,377	25°45'44.89"	80°05'51.60"
G"3"	LT. BUOY-3 (05/19B)	953,358	519,893	25°45'40.08"	80°05'49.24"

NOTES:
1. REFER TO SURVEY NO. 19-138.
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
CKD by: VIRM
Rev. No.
Date: MAY 2019

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-138-MC-CONSZ.DGN
19-138-MC-AVG.DGN
19-138-MC-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCCF.DGN
19-138-C-SS-BRDR.DGN
Reference files:
19-138-VH-003.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

STA. 30+00 THRU STA. 58+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"4"	LT. BUOY-4 (05/19)	950,270	519,258	25°45'34.00"	80°06'23.07"
G"5"	LT. BUOY-5 (05/19)	949,467	518,383	25°45'25.39"	80°06'31.91"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-138.
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.
Date: MAY 2019

Reference files:
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-138-VC-CONSZ.DGN
19-138-VC-AVG.DGN
19-138-VC-SOUN_C1.DGN
MIAMI HARBOR-C-NGMCCF.DGN
19-138-C-SS-BNDR.DGN
19-138-VH-004.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

STA. 58+00 THRU STA. 82+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"6"	LT. BUOY-6 (05/19)	948,154	518,850	25°45'30.11"	80°06'46.24"
G"7"	LT. BUOY-7 (05/19)	947,553	517,654	25°45'18.30"	80°06'52.89"
R"8"	LT. BUOY-8 (05/19)	947,141	518,865	25°45'30.32"	80°06'57.31"
G"9"	LT. BUOY-9 (05/19)	945,819	518,519	25°45'26.97"	80°07'11.80"

NOTES:
1. REFER TO SURVEY NO. 19-138.
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.
Date: MAY 2019

19-138-CONSZ.DGN
19-138-NAV.DGN
19-138-SOUL_C1.DGN
19-138-SOUL_C2.DGN
MIAMI HARBOR-C-ADMCF_PROPOSED.DGN
19-138-DES-BRDR.DGN
Reference files:
19-138-VH005.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT 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		
R"10"	LT. BUOY-10 (05/19)	945,524	519,321	25°45'34.94"	80°07'14.97"
G"11"	LT. BUOY-11 (05/19)	944,032	519,304	25°45'34.87"	80°07'31.29"
R"12"	LT. BUOY-12 (05/19)	944,314	519,700	25°45'38.78"	80°07'28.18"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-138.
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
Fm. No.
Date: MAY 2019

19-138A-ACONS2.DGN
19-138A-SOUTH.DGN
19-138A-SOUA_C2.DGN
MIAMI HARBORC-ACSMCCF_PROPOSED.DGN
19-138A-C-BR-BRDR.DGN
Reference files
19-138A-HH08.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

STA. 18+00 THRU STA. 50+00 CUT-2

PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"13"	LT-13 (05/19)	941,963	520,183	25°45'43.71"	80°07'53.85"
R"14"	LT. BUOY-14 (05/19)	941,779	520,888	25°45'50.71"	80°07'55.82"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-138.
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
Drawn by: WRM
Chkd by: GMR
Proj. No.
Date: MAY 2019

19-138>A-CON50.DGN
19-138>A-CON52.DGN
19-138>A-MAV.DGN
19-138>A-SOUA_C1.DGN
19-138>A-SOUA_C2.DGN
MIAMI HARBOR>C-A>GMCF_PROPOSED.DGN
19-138>C-B>BRDR.DGN
Reference files
19-138>HH07.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

STA. 50+00 CUT-2 THRU STA. 15+00 CUT-3

PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT-3 (05/19)	937,339	521,011	25°45'52.21"	80°08'44.36"
G"15'	LT. BUOY-15 (05/19)	940,090	521,010	25°45'52.03"	80°08'14.28"
R"16"	LT. BUOY-16 (05/19)	939,195	521,953	25°46'01.42"	80°08'24.01"
R"18"	LT. BUOY-18 (05/19)	938,433	522,604	25°46'07.92"	80°08'32.28"
G"19"	LT. BUOY-19 (05/19)	937,635	521,987	25°46'01.86"	80°08'41.07"

NOTES:
1. REFER TO SURVEY NO. 19-138.
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: GR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: MAY 2019

19-138A-CONSLDGN
19-138A-SOUN_C1.DGN
19-138A-SOUN_C3.DGN
MIAMI HARBOR-CA-NGMCSF_PROPOSED.DGN
19-138A-QA-BSR-BRDR.DGN
References files:
19-138A-VH-008.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
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

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 18

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-138.
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
Drawn by: WRM
Checked by: GMR
Rev. No.
Date: MAY 2019

19-138A-CON36.DGN
19-138A-SURV50.DGN
19-138A-SCUR_C3.DGN
MIAMI HARBOR-CA-NGMCDF_PROPOSED.DGN
19-138A-CABS-BRDR.DGN
Reference files
19-138A-VH-009.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY19
35, 36, 50 AND 52-FOOT PROJECT

STA. 44+00 CUT-3 THRU STA. 23+00 CUT-4

PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 18