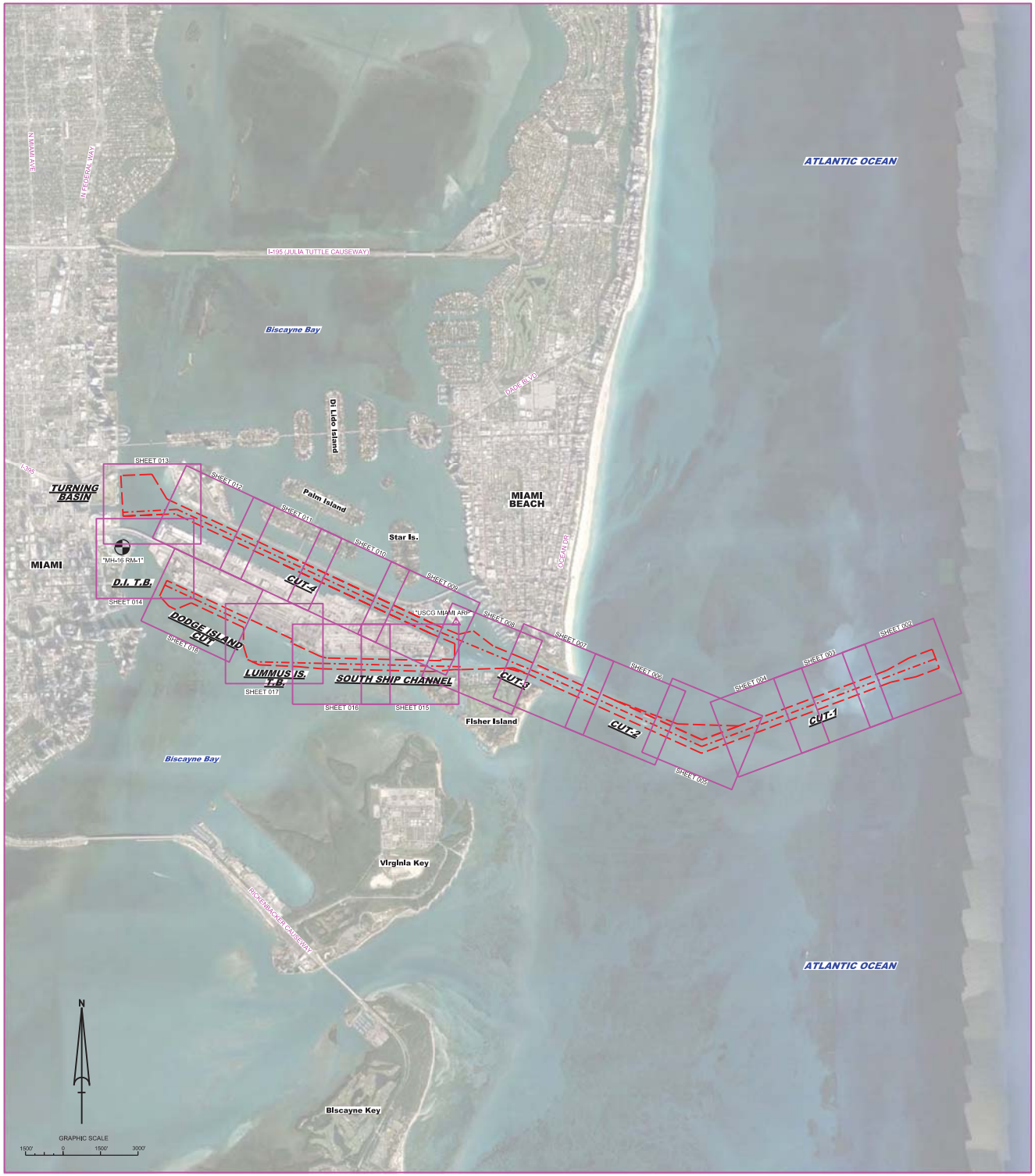

LOCATION MAP

MIAMI HARBOR
DADE COUNTY, FLORIDA
POST-HURRICANE MATTHEW EXAM SURVEY FY17

SURVEY NOTES

1. REFER TO SURVEY NOS. 17-007.
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 NAMED "MIAMI-HBR&RIV-03AUG2010.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 LOCATIONS:

   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 2024 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 I	29 OCT 2016	CUT-3, SOUTH SHIP CHANNEL.
SV FLORIDA I	31 OCT 2016	CUT-4, LUMMIS ISLAND T.B., DODGE IS.
SV FLORIDA I	02 NOV 2016	CUTS 1 AND 2
SV-FLORIDA II	09 NOV 2016	CUT-1

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
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.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Chk'd by: RJC
Drawn by: JRBell
Date: NOV 2016
No. Pts.:
Date:

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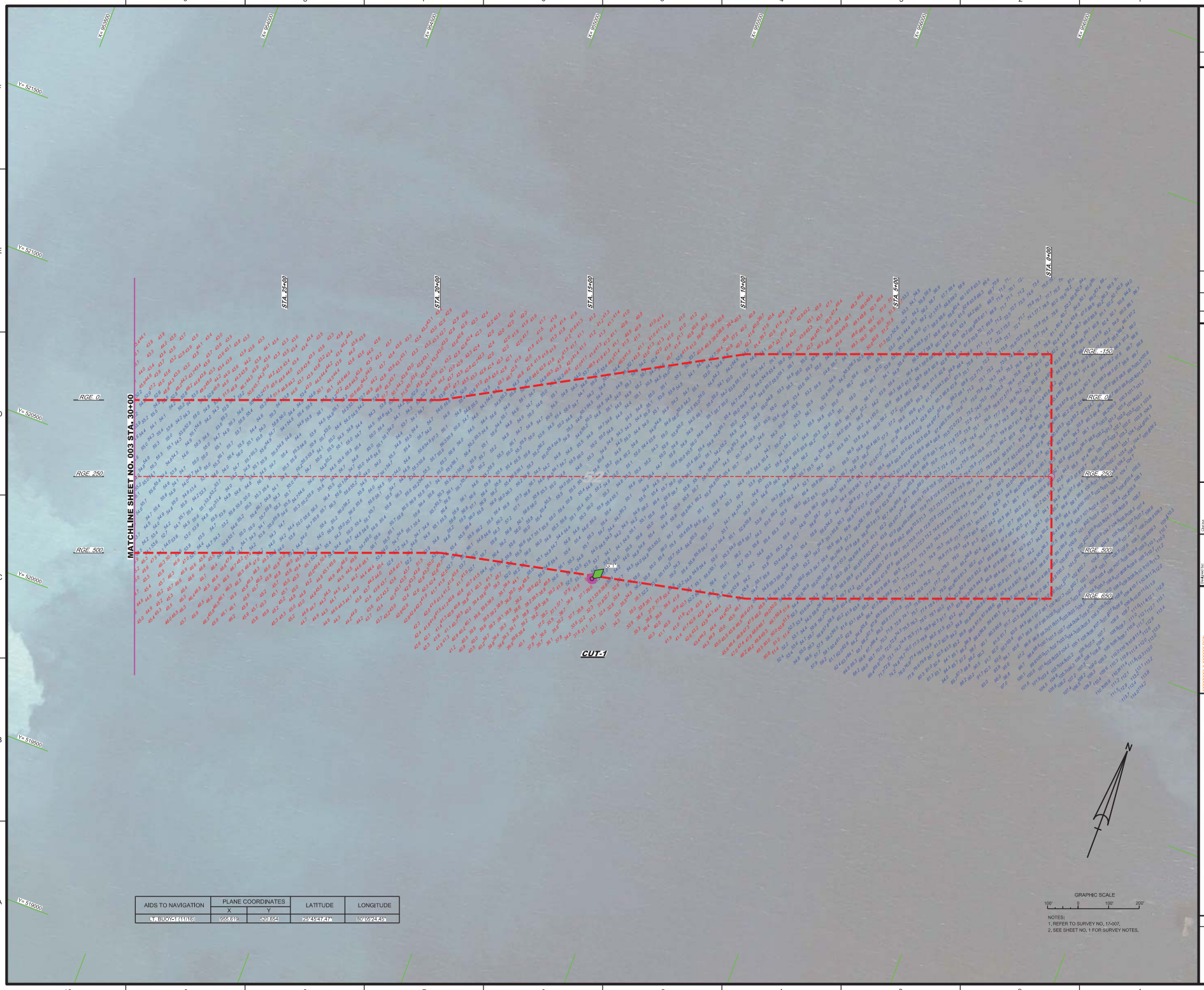
Reference files
T:\2017-HM-001.DGN
File name

MIAMI HARBOR
DADE COUNTY, FLORIDA
POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
1. BUOY-1 (11716)	855.619	520.664	25°45'47.47"	80°09'24.45"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revisions	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: JDBC
Date by: NOV 2016
Date by: NOV 2016
Checked by: MBH

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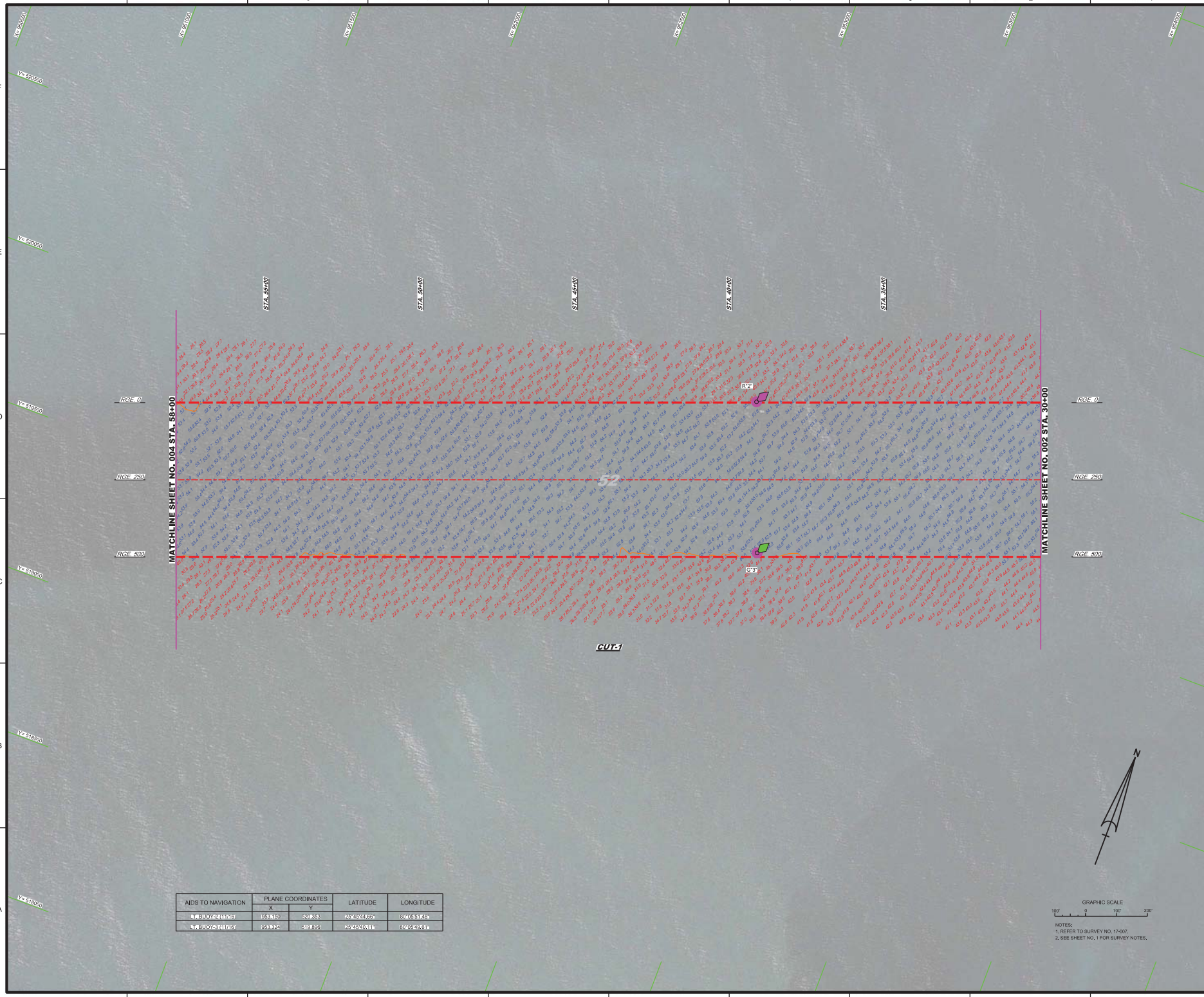


AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT BUOY 2 (4TH18)	953.150	-520.353	25°45'44.66"	80°08'51.48"
LT BUOY 3 (4TH18)	954.322	-519.996	25°45'40.11"	80°08'49.61"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: [illegible]
Drawn by: [illegible]
Date: NOV 2016
File No.: [illegible]
Reference: [illegible]
Filename: [illegible]

MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

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

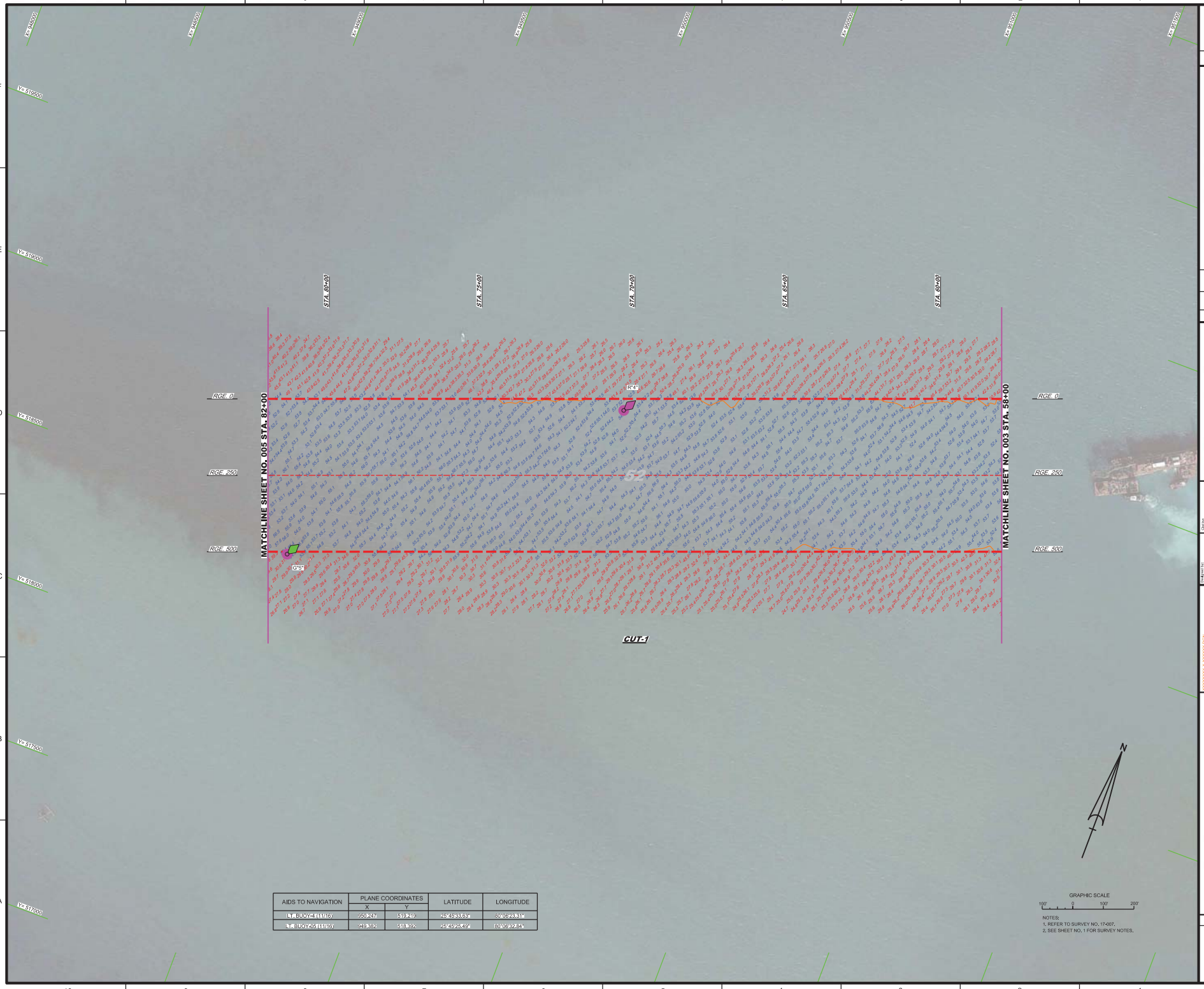
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-4 (11/16)	950.247	519.219	25°45'33.63"	80°09'23.31"
LT. BUOY-5 (11/16)	949.382	518.39	25°45'25.49"	80°09'22.84"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: MBH
Drawn by: JRB
Date: NOV 2016
File No.:
Design:

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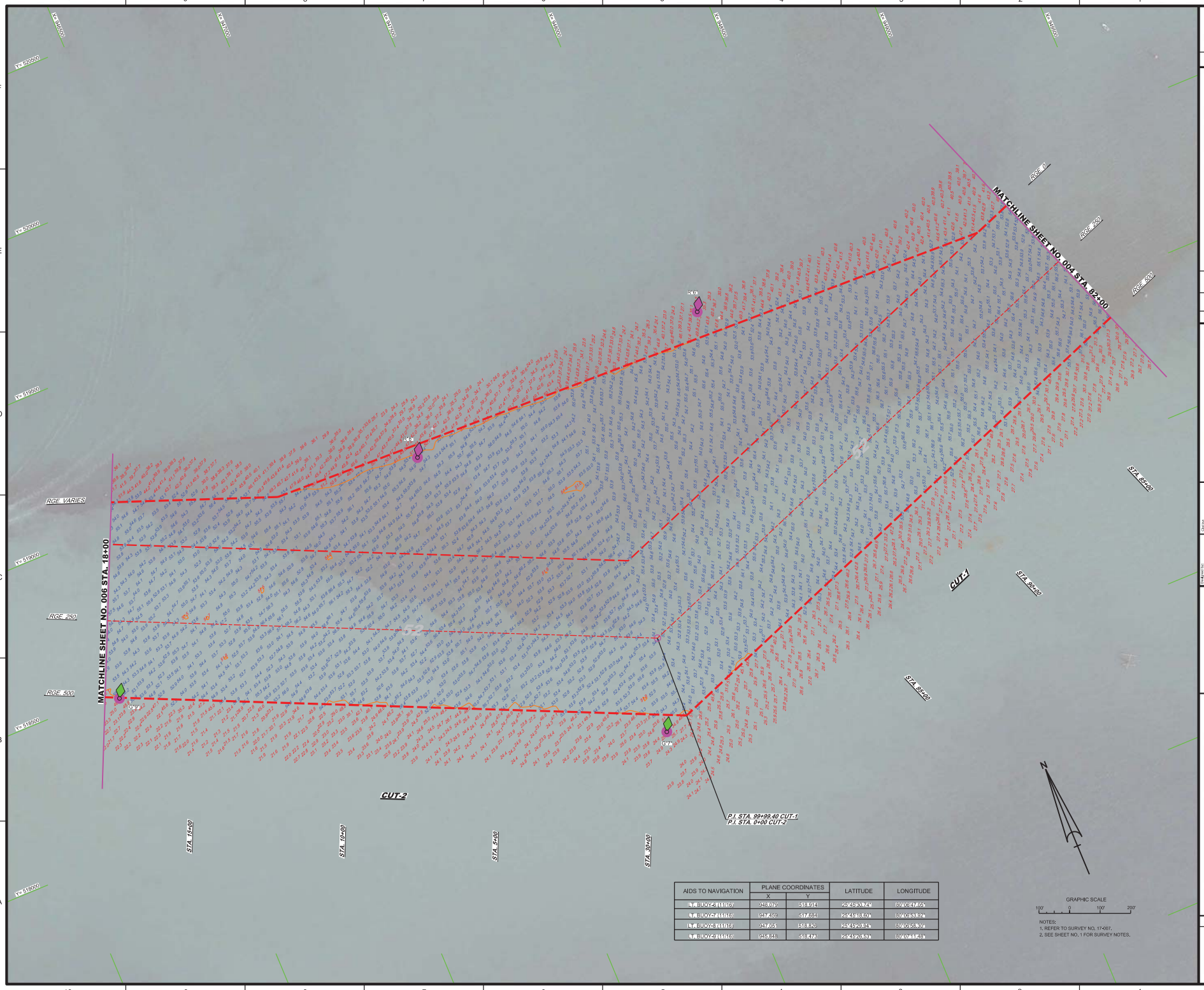

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
L.T. BUOY-5 (11/16)	948.079	518.914	25°45'30.74"	80°09'47.05"
L.T. BUOY-4 (11/16)	947.459	517.884	25°45'48.60"	80°09'33.29"
L.T. BUOY-3 (11/16)	947.055	516.926	25°45'29.45"	80°09'58.36"
L.T. BUOY-2 (11/16)	945.848	518.473	25°45'26.53"	80°10'41.48"

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revisions	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: JDBS
Date: 2016
Drawn by: JDBS
Date: NOV 2016
Checked by: MJH
Date:
File No.
Date: NOV 2016

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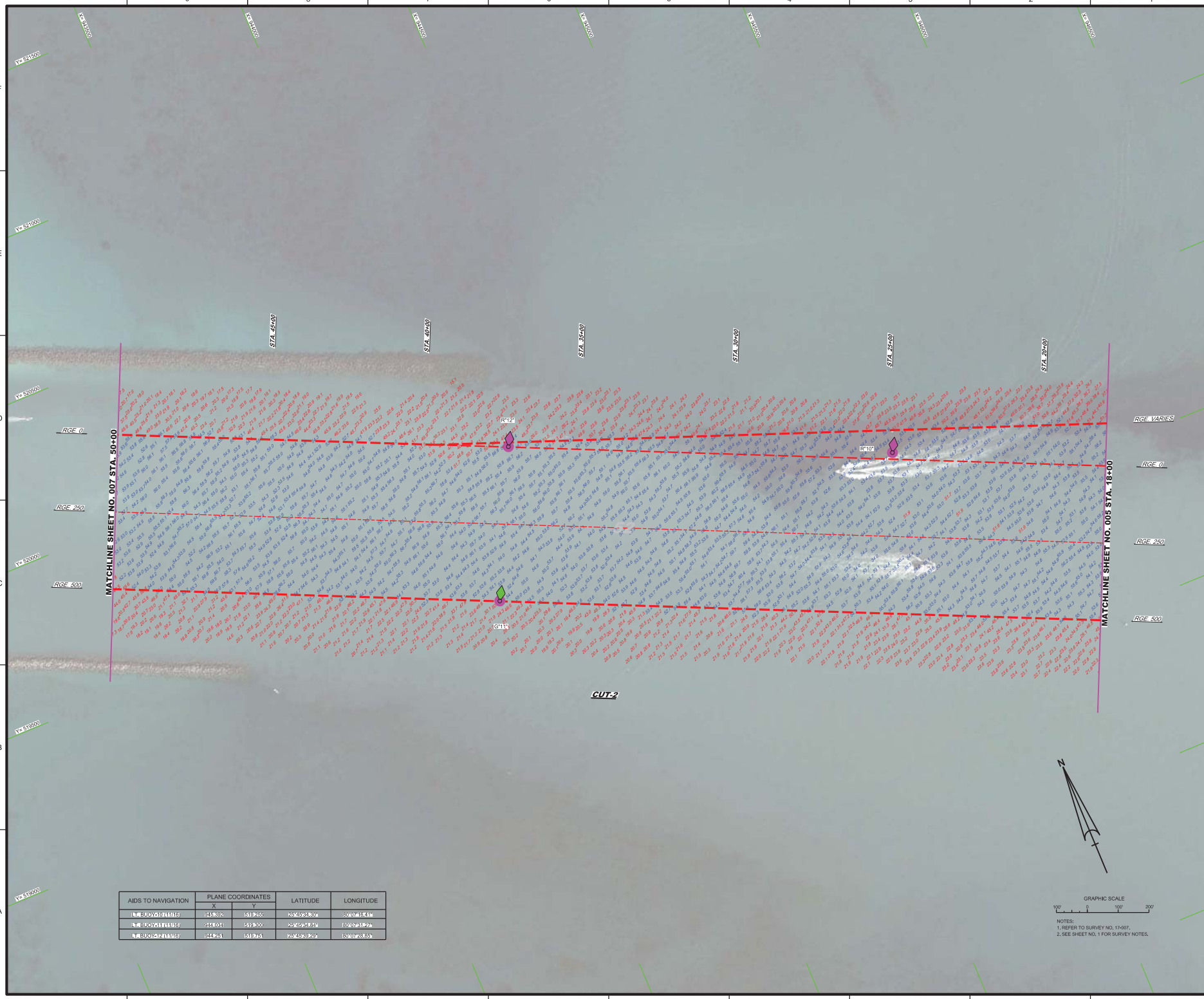

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
L.F. BUOY-10 11/16	945.382	519.255	25-45-54.30"	80-07-18.41"
L.F. BUOY-11 11/16	944.031	519.300	25-45-55.64"	80-07-31.22"
L.F. BUOY-2 11/16	944.25	519.761	25-45-55.49"	80-07-28.85"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revisions	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: MBH
Drawn by: JRB
Date: NOV 2016
File No.
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17-007-11-MAN2.DGN
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17-007-11-MAN4.DGN
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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

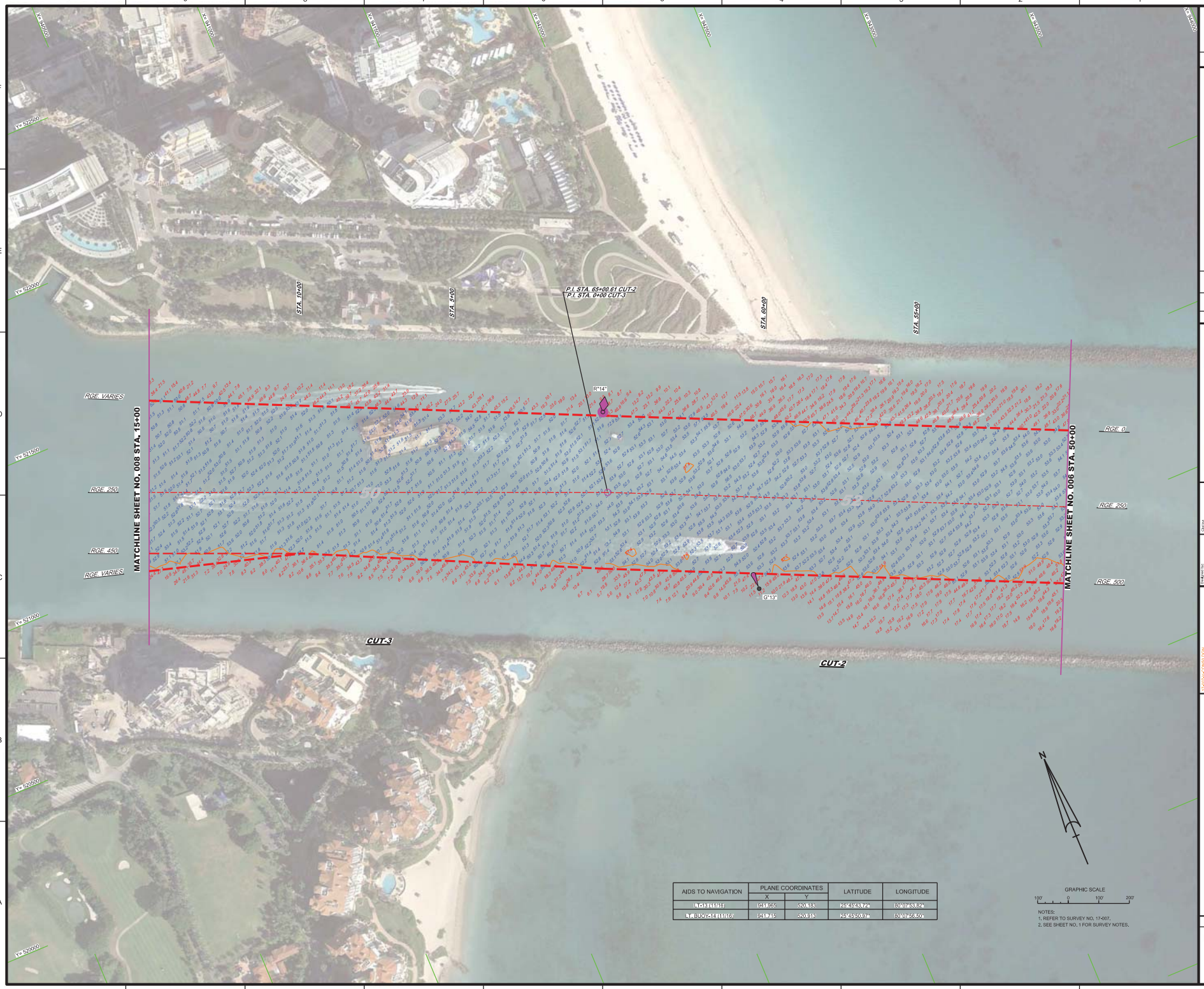
STA. 18+00 THRU STA. 55+00 CUT-2

PLAN

Scale: AS SHOWN

Drawing no.
6

SHEET 06 OF 18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STA. 60+00
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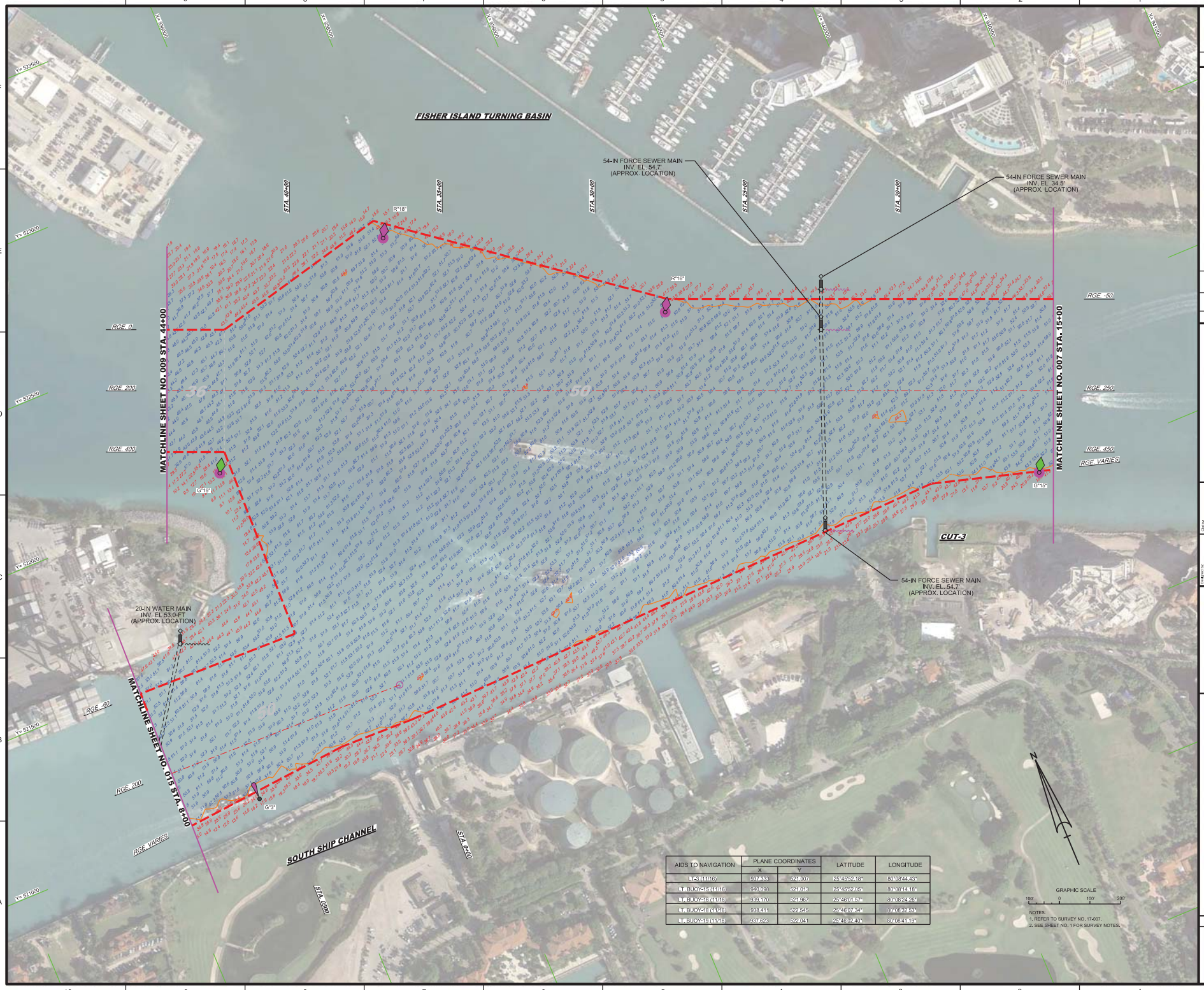

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-3 (11/16)	937,433	521,007	25°45'52.18"	80°08'44.43"
LT-BUOY-15 (11/16)	940,008	521,913	25°45'52.06"	80°08'14.18"
LT-BUOY-16 (11/16)	939,170	521,967	25°46'01.57"	80°08'24.29"
LT-BUOY-18 (11/16)	938,411	522,545	25°46'07.34"	80°08'33.53"
LT-BUOY-19 (11/16)	937,623	522,041	25°46'02.40"	80°08'41.19"

US Army Corps of Engineers
Jacksonville District

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No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked: KR
Drawn by: JPRIEST
Date: NOV 2016
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File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 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

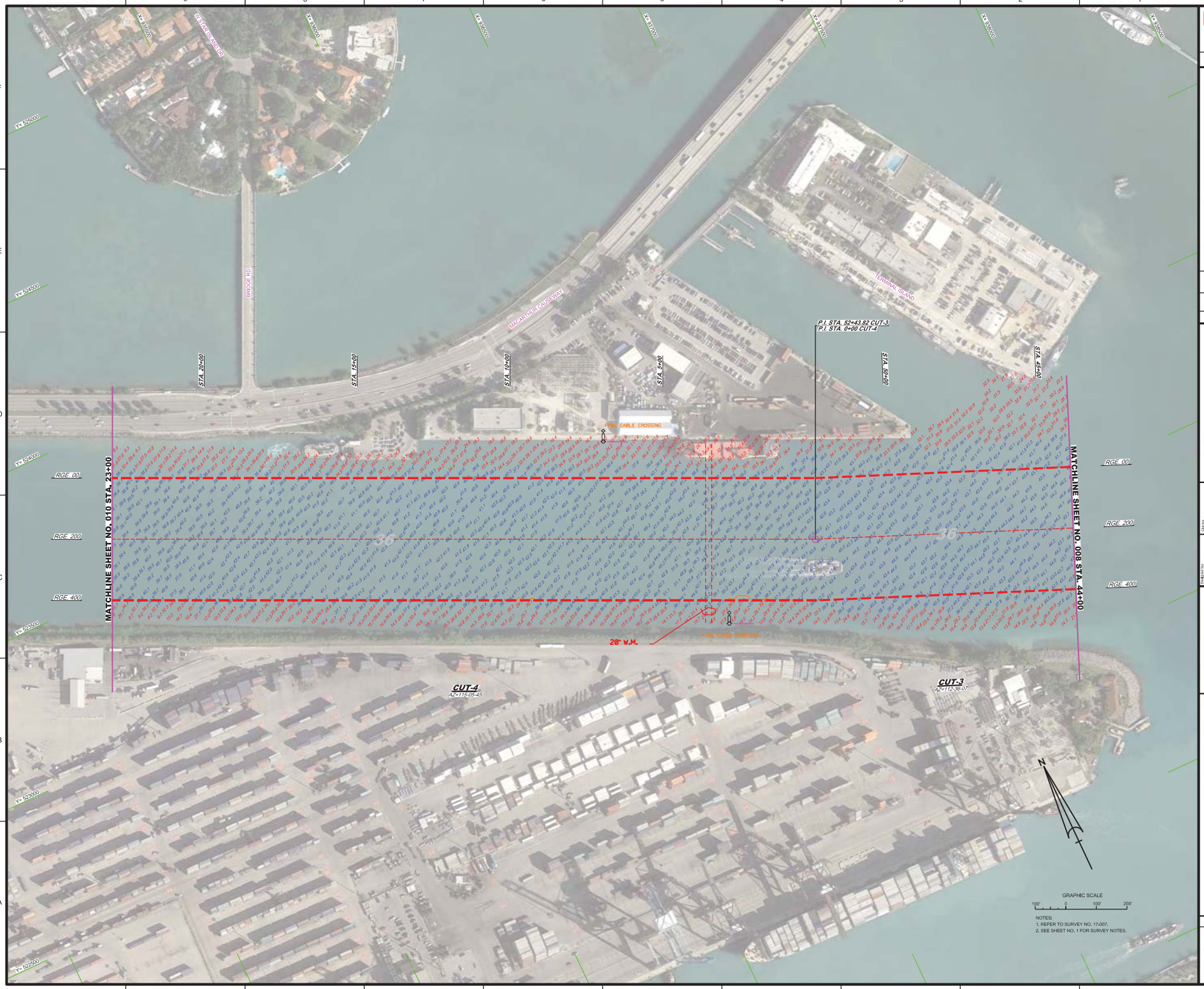
PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 18



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: Date:
Drawn by: Date:
Approved by: Date: NOV 2016

MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

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

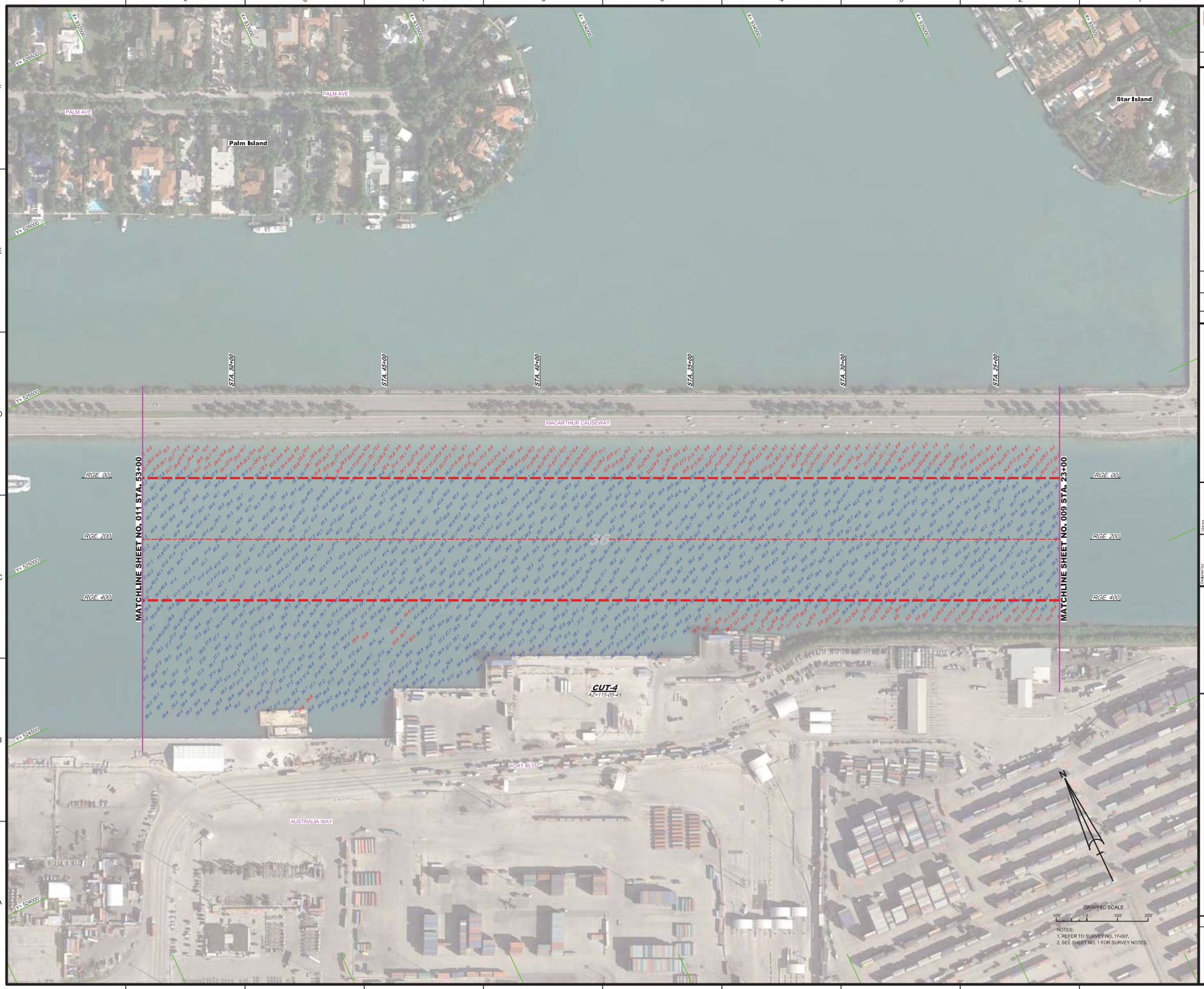
PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 18



NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: MBH
Drawn by: JRB
Date: NOV 2016
No. Rev.
Date:

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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHIEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 23+00 THRU STA. 53+00 CUT-4

PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 18

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: JDRC
Drawn by: JDRC
Date: NOV 2016
Scale: NTS

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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 53+00 THRU STA. 82+00 CUT-4

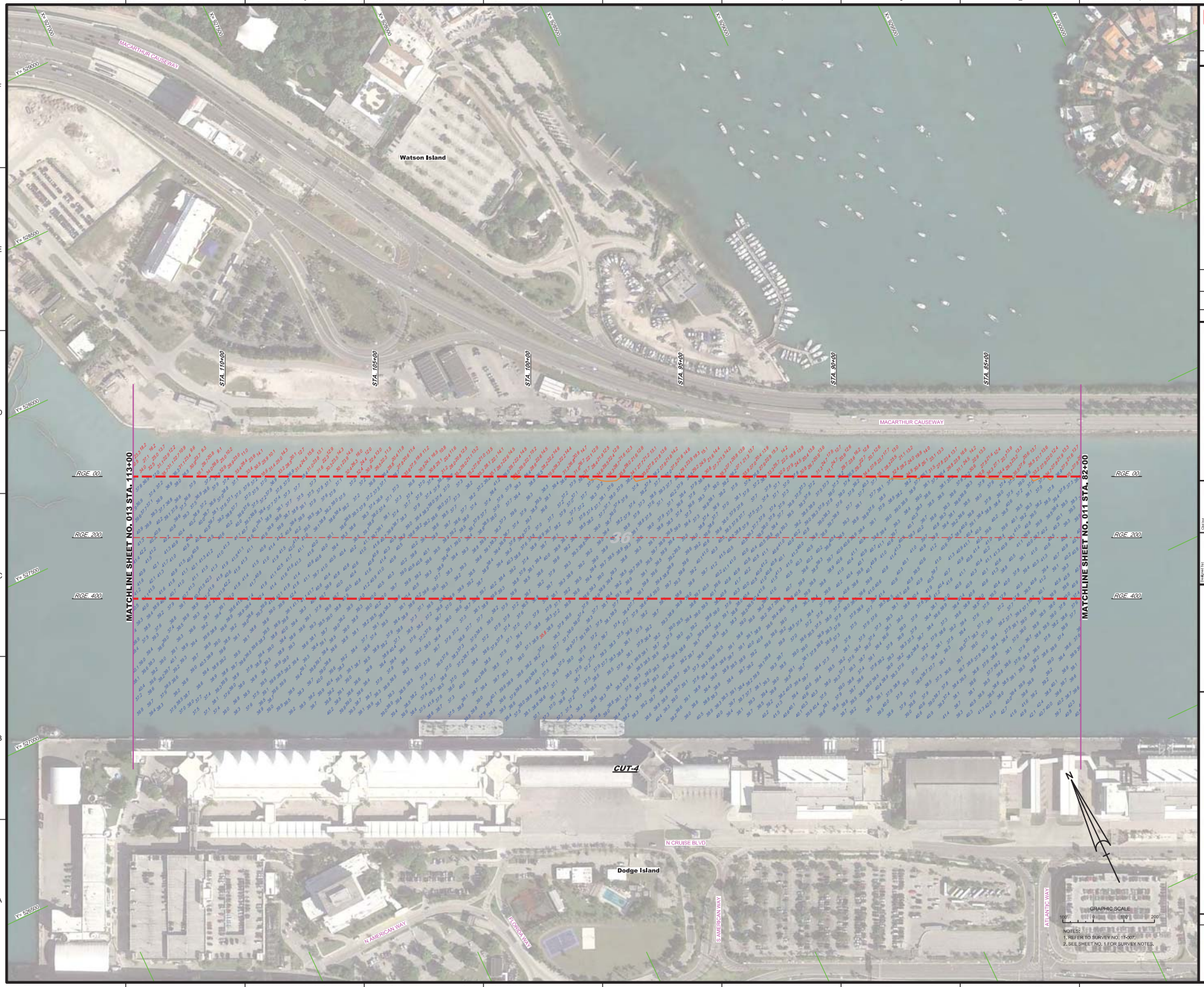
PLAN

Scale: AS SHOWN

Drawing no.

11

SHEET 11 OF 18



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: [illegible]
Date: [illegible]
Drawn by: [illegible]
Date: NOV 2016
No. No.
Date: NOV 2016

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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 82+00 THRU STA. 113+00 CUT-4

PLAN

Scale: AS SHOWN

Drawing no.

12

SHEET 12 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-50 (11/16)	925,537	527,164	25°46'53.90"	80°10'53.03"
LT-A (11/16)	925,888	528,234	25°47'04.47"	80°10'49.12"
LT-B (11/16)	925,380	528,810	25°47'10.21"	80°10'54.63"
LT-C (11/16)	924,607	528,619	25°47'08.37"	80°11'03.11"
LT-D (11/16)	924,382	527,903	25°47'01.29"	80°11'05.61"
LT-E (11/16)	924,889	527,275	25°46'55.04"	80°11'00.11"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: MBH
Drawn by: JRB
Date: NOV 2016
Reviewed by: JRB

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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 113+00 CUT-4 THRU STA. 21+76.44 TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no.

13

SHEET 13 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-16 (11/16)	525,785	524,163	25°46'24.17"	80°10'50.52"
DBN-A (11/16)	526,024	524,715	25°46'29.62"	80°10'47.91"
DBN-B (11/16)	525,169	524,783	25°46'30.78"	80°10'46.38"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: DMH
Drawn by: DMH
Date: NOV 2016
Reference files: T:\2017-A\2017-A_DGN\T:\2017-A\2017-A_DGN\T:\2017-A\2017-A_DGN\

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT BUOY-5 (11/16)	936.023'	-521.002'	25°45'52.21"	80°08'58.69"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revisions	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: JDBC
Date:
Drawn by: JDBC
Date: NOV 2016
Checked by:
Date:

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17-007-A-DEPTH.DGN
17-007-A-GEOM_SECTION.DGN
17-007-A-GEOM_PLAN_SHEETS.DGN
17-007-A-GEOM_PLAN_SHEETS.DGN
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MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 8+00 THRU STA. 33+00 SOUTH SHIP CHANNEL

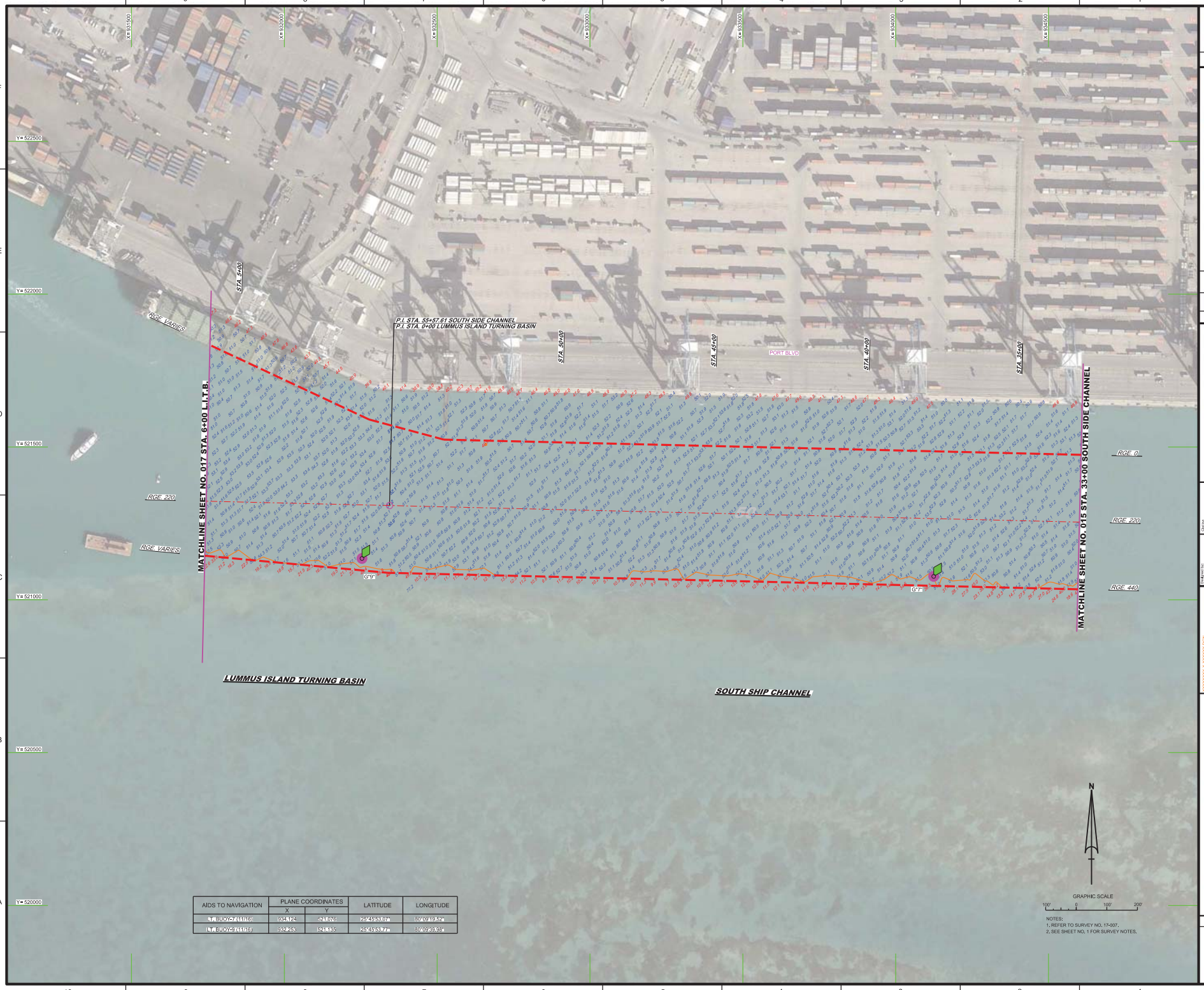
PLAN

Scale: AS SHOWN

Drawing no.

15

SHEET 15 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
"L" BUOY 7 (11/16)	932,124	521,076	25°45'55.02"	80°09'19.42"
LT BUOY 8 (11/16)	932,253	521,135	25°45'53.77"	80°09'38.98"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revisions	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: DBD
Drawn by: DBD
Date: NOV 2016
No. Dwg. District

XXXXXXXX-XX-XXXXXX.DGN
17-007-XX-XXXXXXXX.DGN
17-007-XX-CONSTR.DGN
17-007-XX-DREDGE.DGN
17-007-XX-DGN_LITE.DGN
17-007-XX-DGN_CALC.DGN
17-007-XX-DGN_CALCULATION.DGN
17-007-XX-DGN_CONSTRUCTION.DGN
17-007-XX-DREDGE.DGN
Reference files:
17-007-XX-01B.DGN
File name:

MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 33+00 SOUTH SHIP CHANNEL THRU STA. 6+00 LUMMUS ISLAND TURNING BASIN

PLAN

Scale: AS SHOWN

Drawing no.

16

SHEET 16 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
LT. BUOY-9A (11/16)	931,367	521,186	25°45'54.33"	80°09'49.87"
LT. BUOY-9B (11/16)	930,572	521,136	25°45'53.89"	80°09'58.37"
LT. BUOY-9E (11/16)	929,216	522,250	25°46'05.21"	80°10'13.12"
LT. BUOY-11 (11/16)	928,165	522,706	25°46'09.53"	80°10'13.65"
YELLOW LT-C (11/16)	929,705	521,187	25°45'54.45"	80°10'07.85"
YELLOW LT-D (11/16)	929,289	521,594	25°45'58.51"	80°10'12.37"

NOTES:
1. REFER TO SURVEY NO. 17-007.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Revised	Date

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Checked by: MBH
Drawn by: JRBC
Date: NOV 2016
File No. 17-007-A-DGN-01.DGN
17-007-A-DGN-02.DGN
17-007-A-DGN-03.DGN
17-007-A-DGN-04.DGN
17-007-A-DGN-05.DGN
17-007-A-DGN-LIT01.DGN
17-007-A-DGN-LIT02.DGN
17-007-A-DGN-LIT03.DGN
17-007-A-DGN-LIT04.DGN
17-007-A-DGN-LIT05.DGN
17-007-A-DGN-LIT06.DGN
Reference: Base
Tile No. 17-007-A-001.DGN

MIAMI HARBOR
DADE COUNTY, FLORIDA

POST-HURRICANE MATTHEW EXAM SURVEY FY17
34, 36, 50 AND 52-FOOT PROJECT

STA. 6+00 THRU STA. 27+85 LUMMUS ISLAND TURNING BASIN &
STA. 0+00 THRU STA. 2+00 DODGE ISLAND

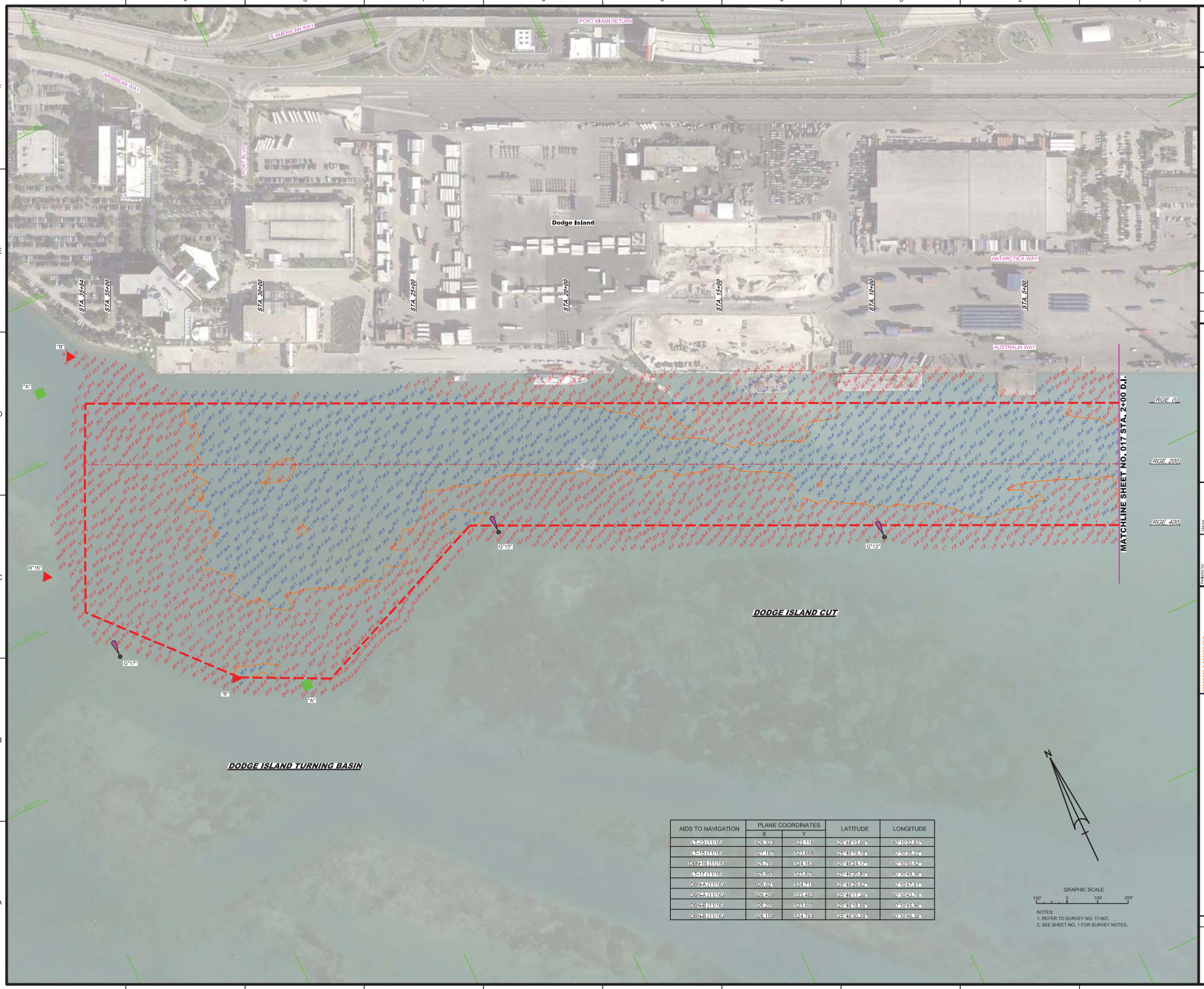
PLAN

Scale: AS SHOWN

Drawing no.

17

SHEET 17 OF 18


PORT MIAMI RETURN
S AMERICAN WAY
CARIBBEAN WAY
PORT BLVD
Dodge Island
ANTARCTICA WAY
AUSTRALIA WAY
STA. 35+84
STA. 35+00
STA. 30+00
STA. 25+00
STA. 20+00
STA. 15+00
STA. 10+00
STA. 5+00
"B"
"A"
R"16"
G"17"
G"15"
G"13"
RGE. 0
RGE. 200
RGE. 400
MATCHLINE SHEET NO. 017 STA. 2+00 D.I.
DODGE ISLAND CUT
DODGE ISLAND TURNING BASIN
Y= 628000
Y= 626000
Y= 624000
Y= 622000
X= 836000
X= 838000
X= 840000
X= 842000
X= 844000
X= 846000
X= 848000
X= 850000
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X= 858000
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X= 868000
X= 870000
X= 872000
X= 874000
X=