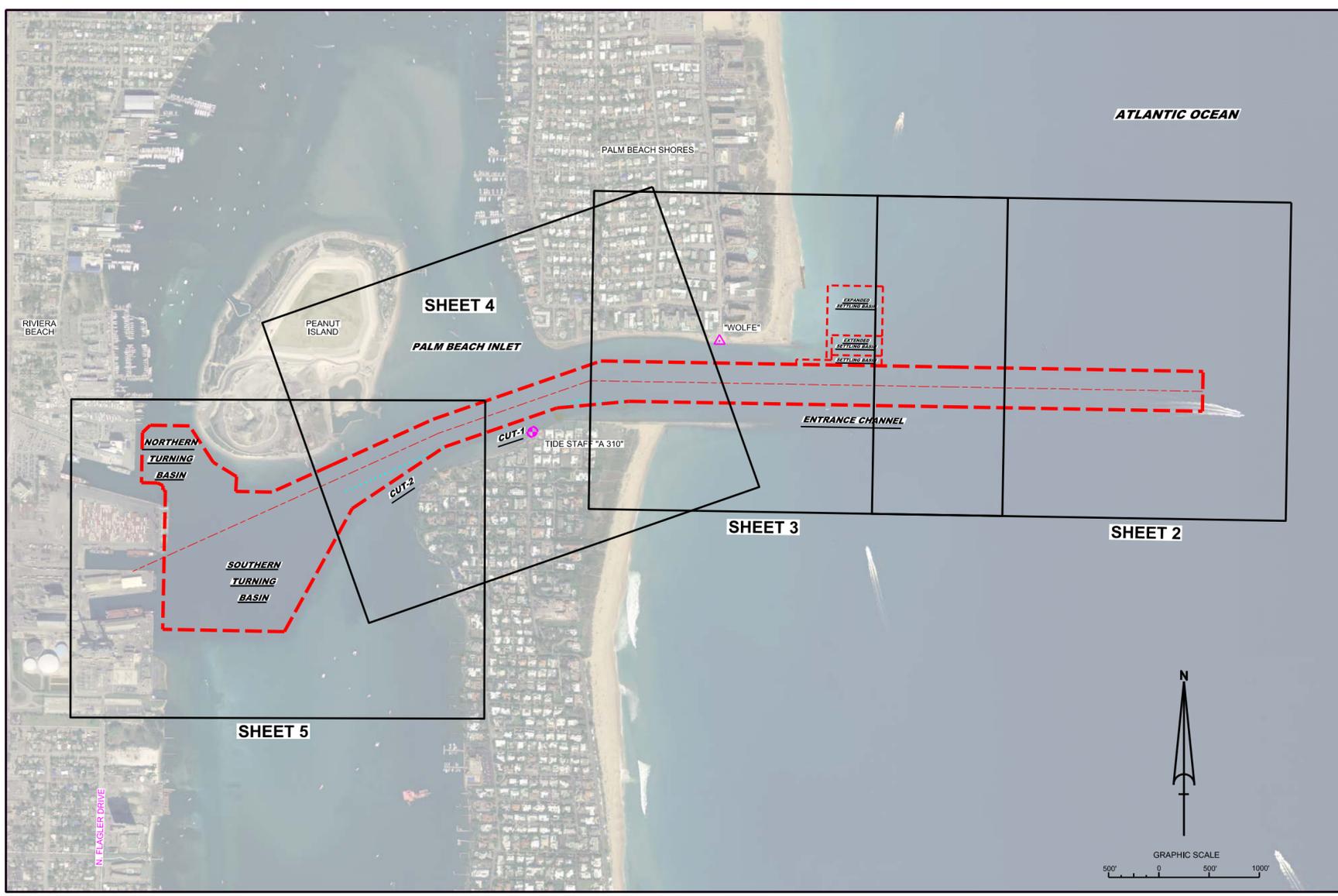


PALM BEACH HARBOR, FLORIDA

4th QUARTER EXAMINATION SURVEY FY15

25, 33, 35, 37 & 39-FOOT PROJECT



SURVEY NOTES:

- REFER TO SURVEY NO. 15-185.
 - 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 WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:

NOAA TIDAL STATION 872-2588, PORT OF W, PALM BEACH, LAKE WORTH
 - ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
 - TIDAL REDUCTIONS WERE OBTAINED USING REAL-TIME KINEMATIC (RTK) GPS AND UTILIZING A HYPACK KINEMATIC TIDAL DATUM (KTD) MODEL FILE BASED ON NOAA'S VDATUM. FILE NAME: PALM BEACH-BROWARD_20140529.KTD.
 - PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983.
 - ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
 - THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

REFERENCE BASE LOCATED AT "WOLFE" (OPUS PID: BBBZ46)

TIDE STAFF LOCATED FROM "A 310" (PID: AD2870)
 - VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ. SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- | VESSEL | DATE OF SURVEY | CUT |
|---------------|----------------|-------------------------------|
| SV-FLORIDA II | 26 SEP 2015 | ENT. CH., CUT-1, CUT-2 |
| SV-FLORIDA II | 27 SEP 2015 | TURNING BASIN, SETTLING BASIN |
- AIDS TO NAVIGATION WERE LOCATED DURING 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.

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

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
DRAWN BY: WRM
CHECKED BY: WRM
DATE: JUN 2015

USACE/JACKSONVILLE DISTRICT
PALM BEACH HARBOR/CANAL/COG/CF/DOH
15-12765-BB-BROWARD
Reference: 15-0850-VH-01.DGN
File Name:

PALM BEACH HARBOR, FLORIDA

3rd QUARTER EXAMINATION SURVEY FY15

25, 33, 35, 37 & 39-FOOT PROJECT

INDEX, LOCATION AND VICINITY

MAP

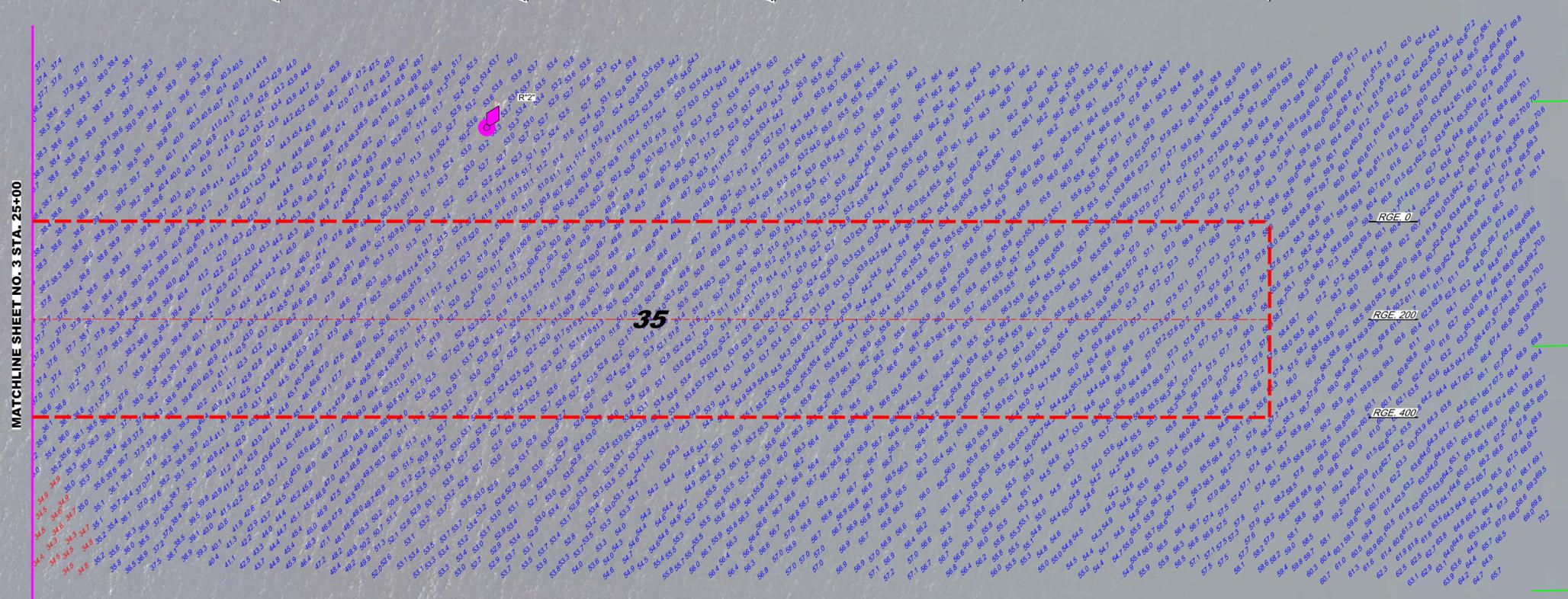
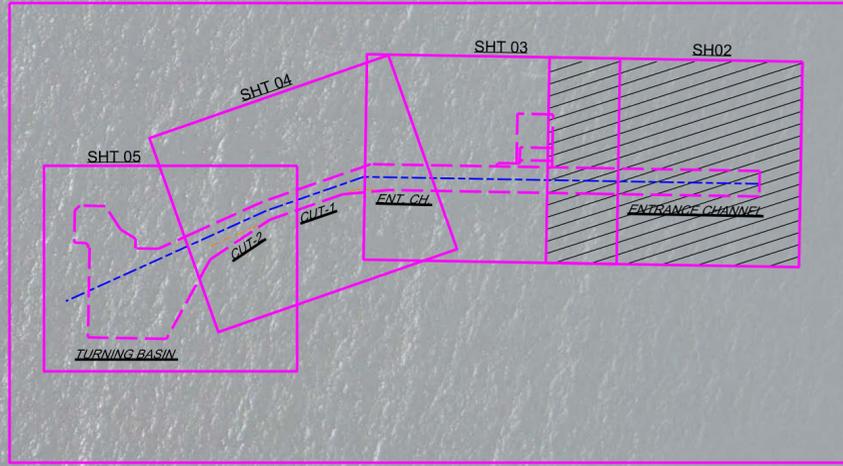
Scale: AS SHOWN

Drawing no.

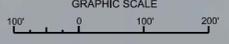
1

SHEET 01 OF 05

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-2 (0915)	974.791	887.983	26°46'23.82"	80°12'4.45"



ENTRANCE CHANNEL



NOTES:
1. REFER TO SURVEY NO. 15-185,
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



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JACKSONVILLE, FLORIDA

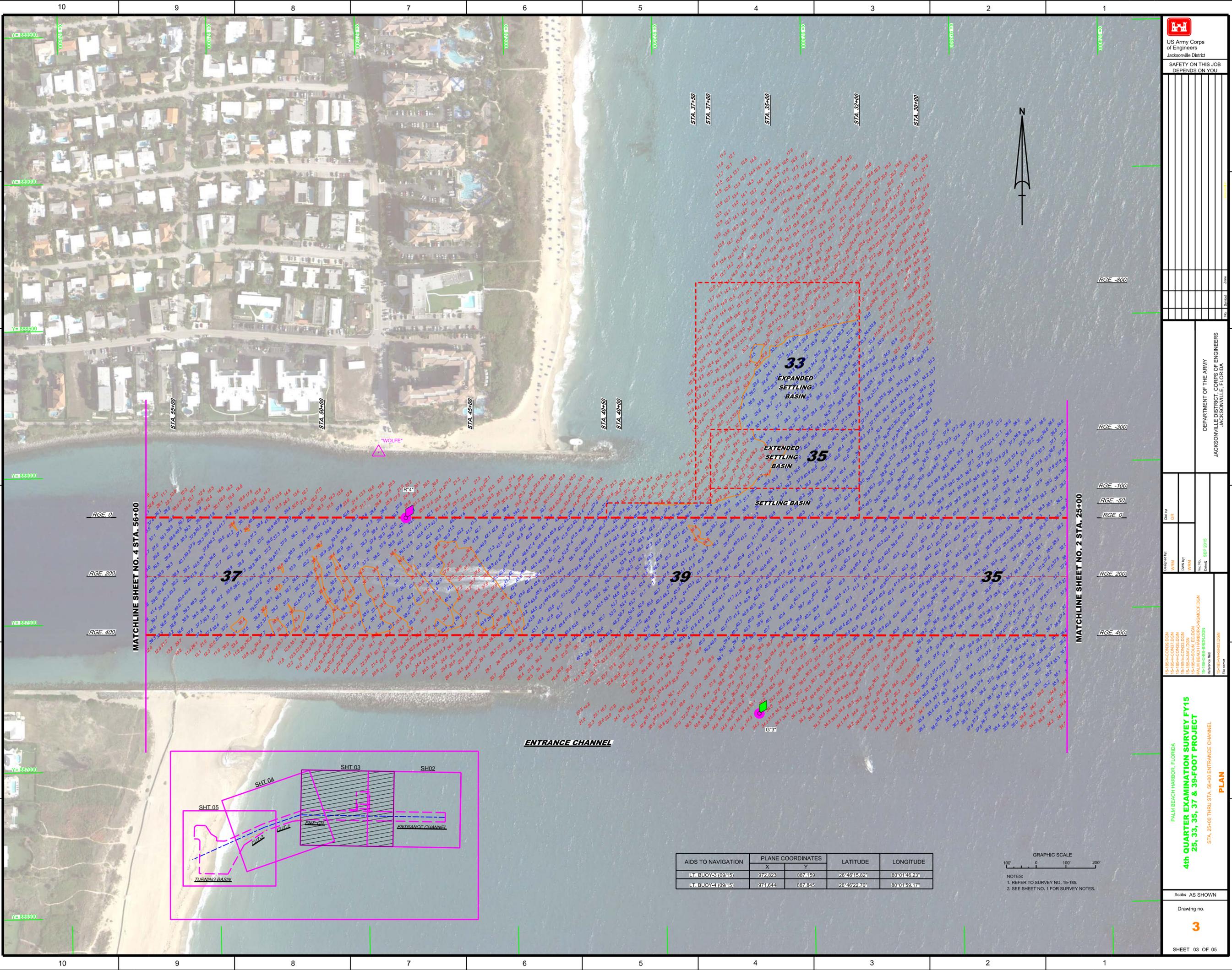
4th QUARTER EXAMINATION SURVEY FY15
25, 33, 35, 37 & 39-FOOT PROJECT

STA. 0+00 THRU STA. 25+00 ENTRANCE CHANNEL
PLAN

Scale: AS SHOWN

Drawing no.
2

SHEET 02 OF 05



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

Call by: GRL

Designed by: WRM

Drawn by: WRM

Checked: WRM

Date: SEP 2015

Reference files:
15-185A-COINB.DGN
15-185A-COIN3.DGN
15-185A-COIN3.DGN
15-185A-HAV.DGN
15-185A-HARBOR-CANAL.DGN
15-185A-HARBOR-DGN
15-185A-HSH3.DGN

PALM BEACH HARBOR, FLORIDA

4th QUARTER EXAMINATION SURVEY FY15
25, 33, 35, 37 & 39-FOOT PROJECT

STA. 25+00 THRU STA. 36+00 ENTRANCE CHANNEL

PLAN

Scale: AS SHOWN

Drawing no. **3**

SHEET 03 OF 05

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (09/15)	972,823	887,159	26°46'15.82"	80°01'46.23"
LT. BUOY-4 (09/15)	971,644	887,845	26°46'22.70"	80°01'59.17"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 15-185.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

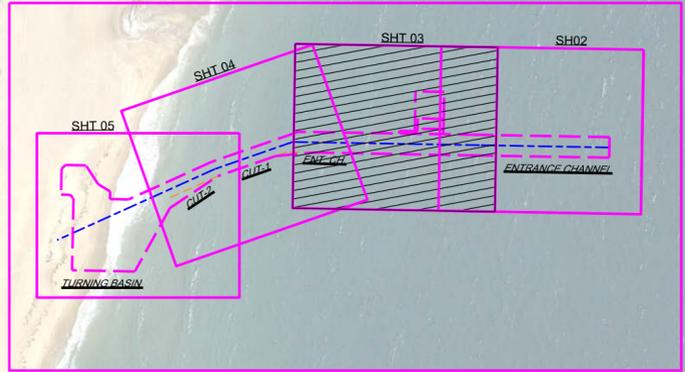
MATCHLINE SHEET NO. 4 STA. 56+00

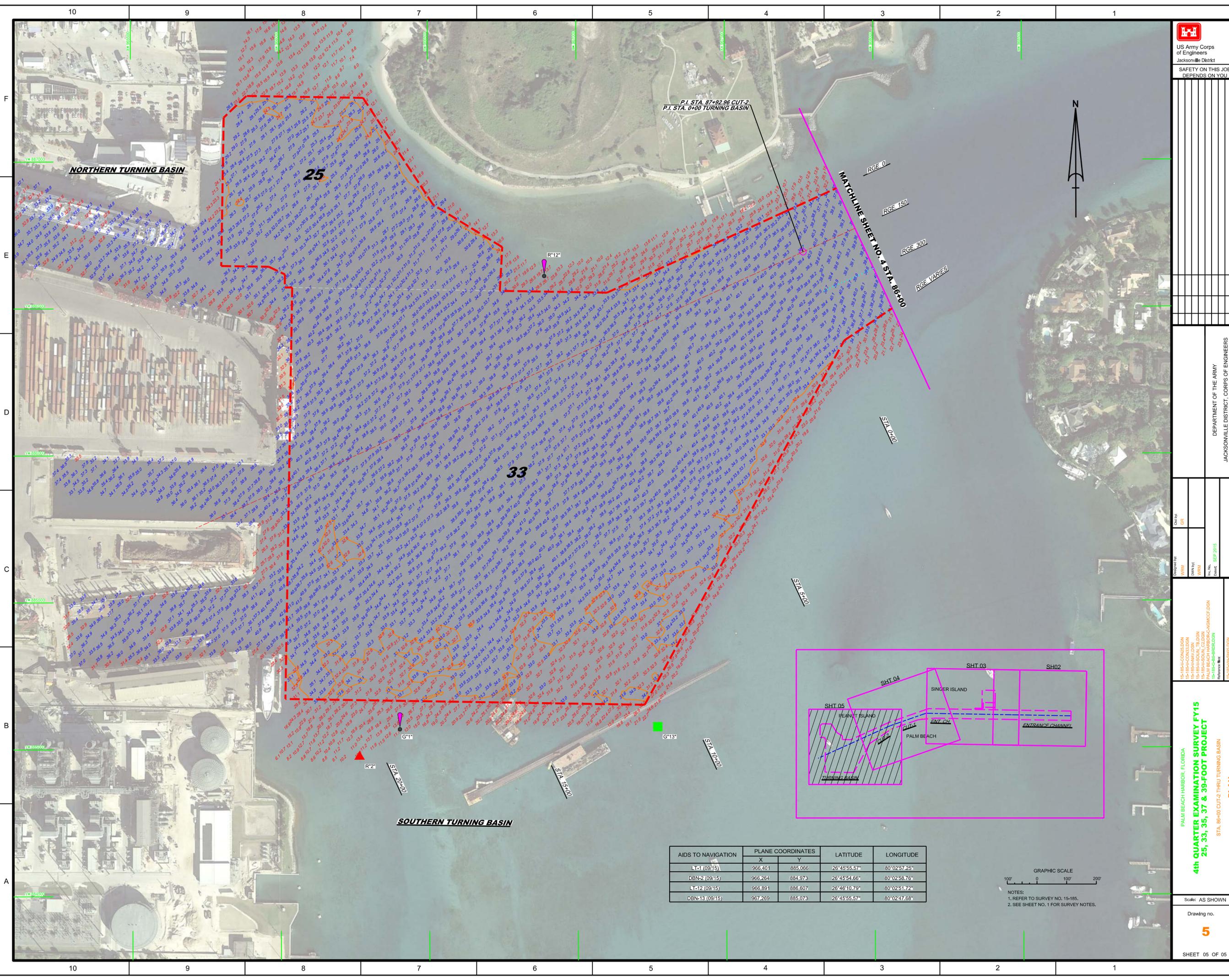
MATCHLINE SHEET NO. 2 STA. 25+00

RGE. 0
RGE. 200
RGE. 400

RGE. -800
RGE. -300
RGE. -100
RGE. -50
RGE. 0
RGE. 200
RGE. 400

ENTRANCE CHANNEL





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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Call by: GRI
Designed by: WRM
Drawn by: WRM
Checked by: WRM
Date: SEP 2015

15-185A-CONC/DON
15-185A-SOIL/T/BDON
15-185A-WAY/DON
15-185A-STR/BDON
15-185A-CONC/BDON
15-185A-STR/BDON
Reference files:
15-185A-HS-HIS.DGN
15-185A-HS-MIS.DGN

4th QUARTER EXAMINATION SURVEY FY15
25, 33, 35, 37 & 39-FOOT PROJECT
STA. 86+00 CUT-2 THRU TURNING BASIN
PLAN

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

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-1 (09/15)	966,401	885,066	26°45'55.57"	80°02'57.25"
DBN-2 (09/15)	966,264	884,973	26°45'54.66"	80°02'58.76"
LT-2 (09/15)	966,891	886,607	26°46'10.79"	80°02'51.72"
DBN-13 (09/15)	967,269	885,073	26°45'55.57"	80°02'47.68"

