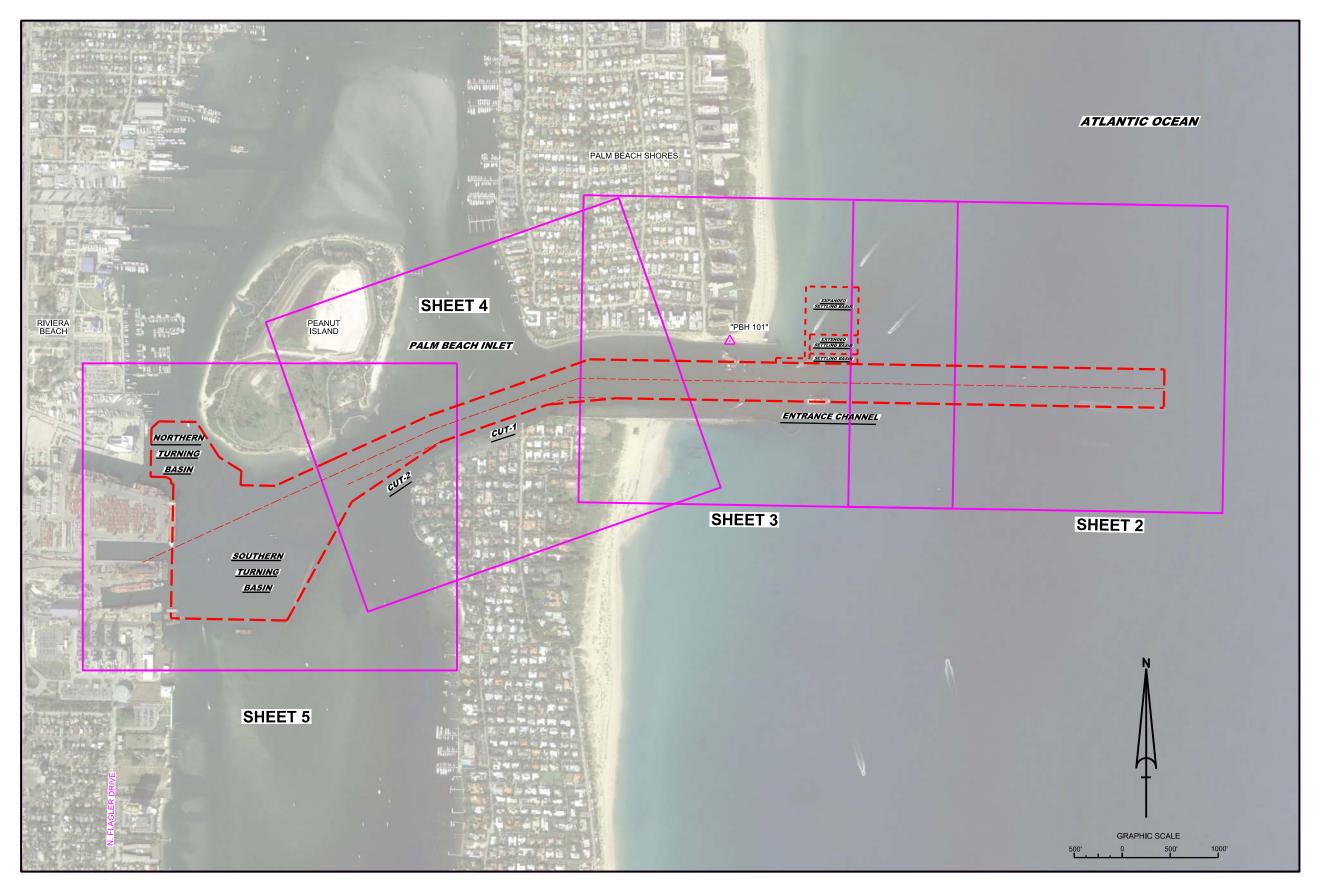


## PALM BEACH HARBOR, FLORIDA NOVEMBER HYDROGRAPHIC EXAM SURVEY FY23 25, 33, 35, 37 & 39-FOOT PROJECT



## SURVEY NOTES

- 1. REFER TO SURVEY NO. 23-033.
- 2. 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 A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "PALMBEACH\_2018 05 03.KTD".
- 4. 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 THE CURRENT REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83), BASED ON THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).
- 6. 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 "PBH 101" (OPUS PID: BBGN27)
- TIDE STAFF LOCATED FROM "COE A 310 RESET" (PID: BBGN
- 8. 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 HEIGHT OF THE BENCHMARK ASSOCIATED BELOW:

VERTICAL MEASUREMENTS WERE MADE USING AN ECHOTRAC E20 SINGLE-BEAM TRANSDUCER OPERATING AT 28 AND 200 KHZ AND AN EDGETECH 6205 MULTI-BEAM

VESSEL DATE OF SURVEY CUT

SB-44 20 NOV 2022 TURNING BASIN, CUTS 1 & 2 SB-44 29 NOV 2022 ENTRANCE CHANNEL, SETTLING BA

- 9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SUR
- 10. 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.
- 11. 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   |                    |
|----------|--------------------|
| Δ        | MONUMENT           |
| · ·      | LIGHTED BEACON     |
| •        | GREEN DAYBEACON    |
| <b>A</b> | RED DAYBEACON      |
| <b>₽</b> | RED LIGHTED BUOY   |
| <b>₽</b> | GREEN LIGHTED BUOY |
| Рc       | CAN BUOY           |
| $Q_{N}$  | NUN BUOY           |
| 8        | TIDE STAFF         |
| 8        | PROJECT DEPTH      |
|          |                    |

of Engineers Jacksonville District SAFETY ON THIS JOB Scale: AS SHOWN SHEET 01 OF 05

