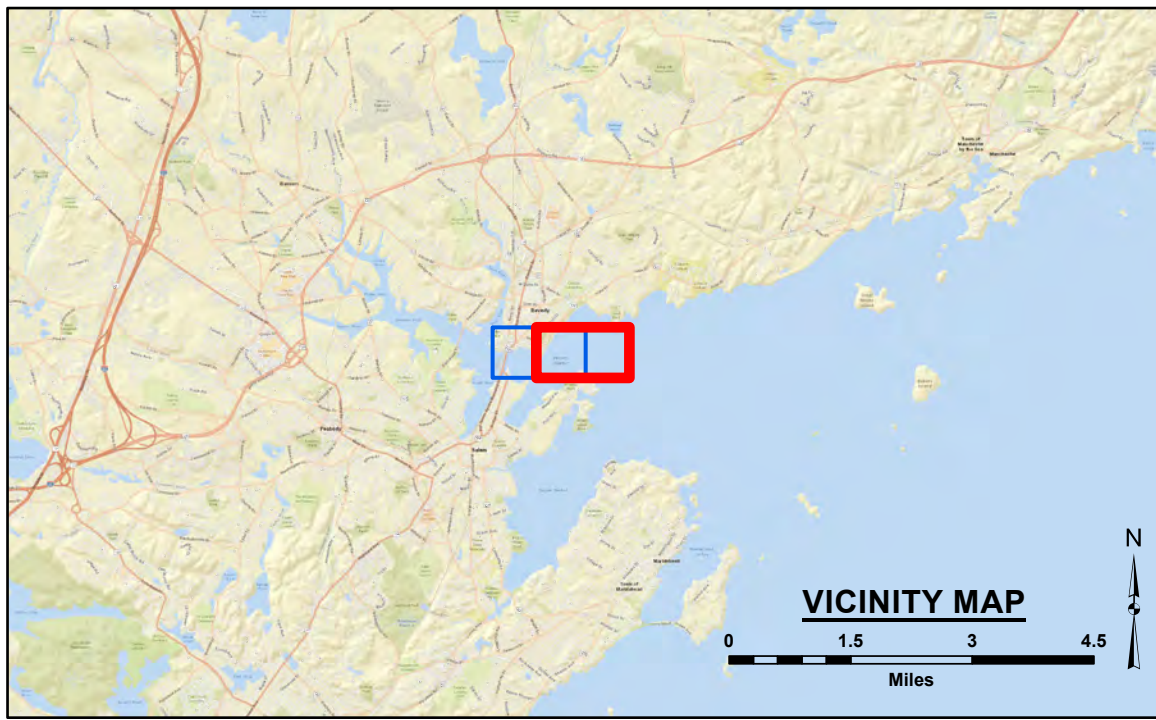
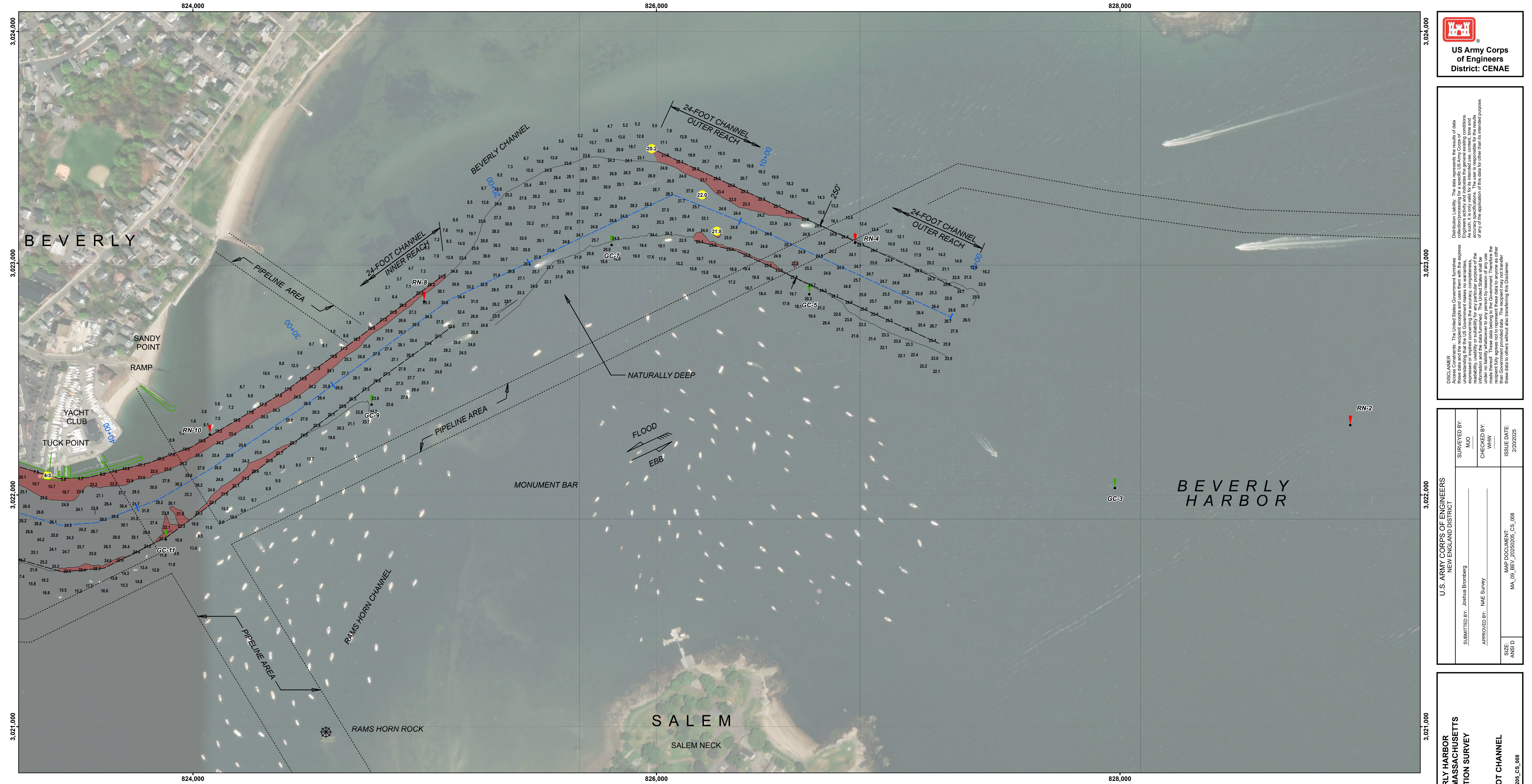




**LEGEND**

--- Federal Navigation Channel

--- Channel Center Line

..... Cable or Pipeline Area

— Contour Line

— Marine Infrastructure\*

✱ Fixed Navigation Aids

! Red Navigation Buoy

! Green Navigation Buoy

! Yellow Navigation Buoy

■ Shoaling Area

● Shoalest Sounding\*\*

1" = 200'

GRAPHIC SCALE

0 200 400 Feet

\*\* Shoalest Sounding per Quarter per Reach

\* Present at Time of Survey

**Notes:**

Horizontal Datum: Mass Mainland, MA-2001 NAD 83

Distance Units: Distance\_Units

Vertical Datum: MLLW

Depth Units: U.S. Survey Feet

Vessel Name: POPHAM BEACH

Sonar System: Reson T50 (Multibeam Sonar)

Sounding Frequency: 300 kHz

Survey Method: RTK GPS Tides

GPS System: INS Integrated Reson (RTK)

RTK Base Station: MTS Smartnet Max

Software Used: Hypack

Sounding Sort Distance: 50'

Field Books: R&H 4981

Survey No.: MA\_09\_BEV\_20250205\_CS\_008

Reference NOAA Chart No.: ENC US5MA1SG & US5MA1SH

**The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.**

**General Notes**

The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during February 2025. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthomagery is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other features. Temporal changes may have occurred since this dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

**Project Remarks**

Marine infrastructure surveyed with Lidar and within federal navigation project limits.

**Water Level Information**

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model ME/NH/MA Region Version 2.3. The corrections in the project area is 5.15 feet. MLLW is below NAVD88; therefore, the correction should be added to NAVD88 to convert to MLLW (e.g. -10 NAV88 = -8 MLLW when using a 2-foot correction).

**US Army Corps of Engineers**  
District: CENAE

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. The data is not intended for use in any other project. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any use of the data for other than the intended purpose.

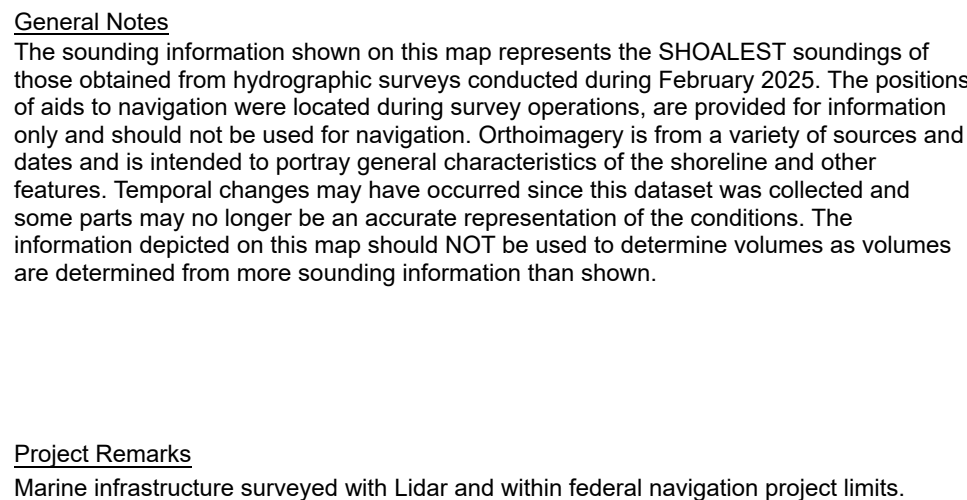
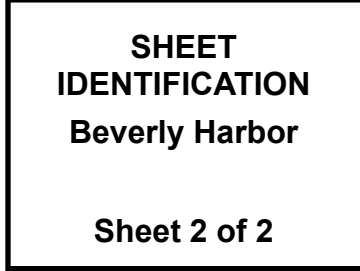
|                                                      |  |                            |  |                                           |  |                          |  |
|------------------------------------------------------|--|----------------------------|--|-------------------------------------------|--|--------------------------|--|
| U.S. ARMY CORPS OF ENGINEERS<br>NEW ENGLAND DISTRICT |  | SURVEYED BY:<br>MJO        |  | CHECKED BY:<br>WHW                        |  | ISSUE DATE:<br>2/20/2025 |  |
| SUBMITTED BY:<br>Joshua Bromberg                     |  | APPROVED BY:<br>NAE Survey |  | MAP DOCUMENT<br>MA_09_BEV_20250205_CS_008 |  | SIZE<br>A1SD             |  |

**BEVERLY HARBOR**  
BEVERLY, MASSACHUSETTS  
CONDITION SURVEY

**24-FOOT CHANNEL**

**SHEET IDENTIFICATION**  
Beverly Harbor

Sheet 1 of 2



Revision Number: 5.24.09.03-5.24.09.0