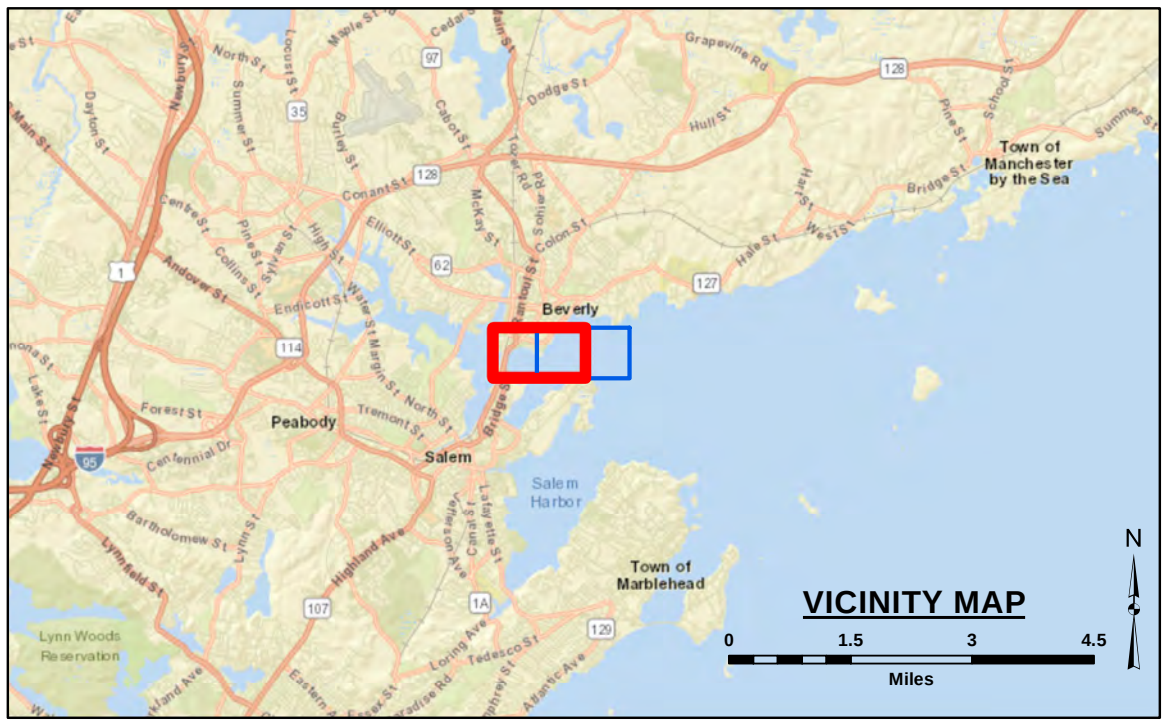
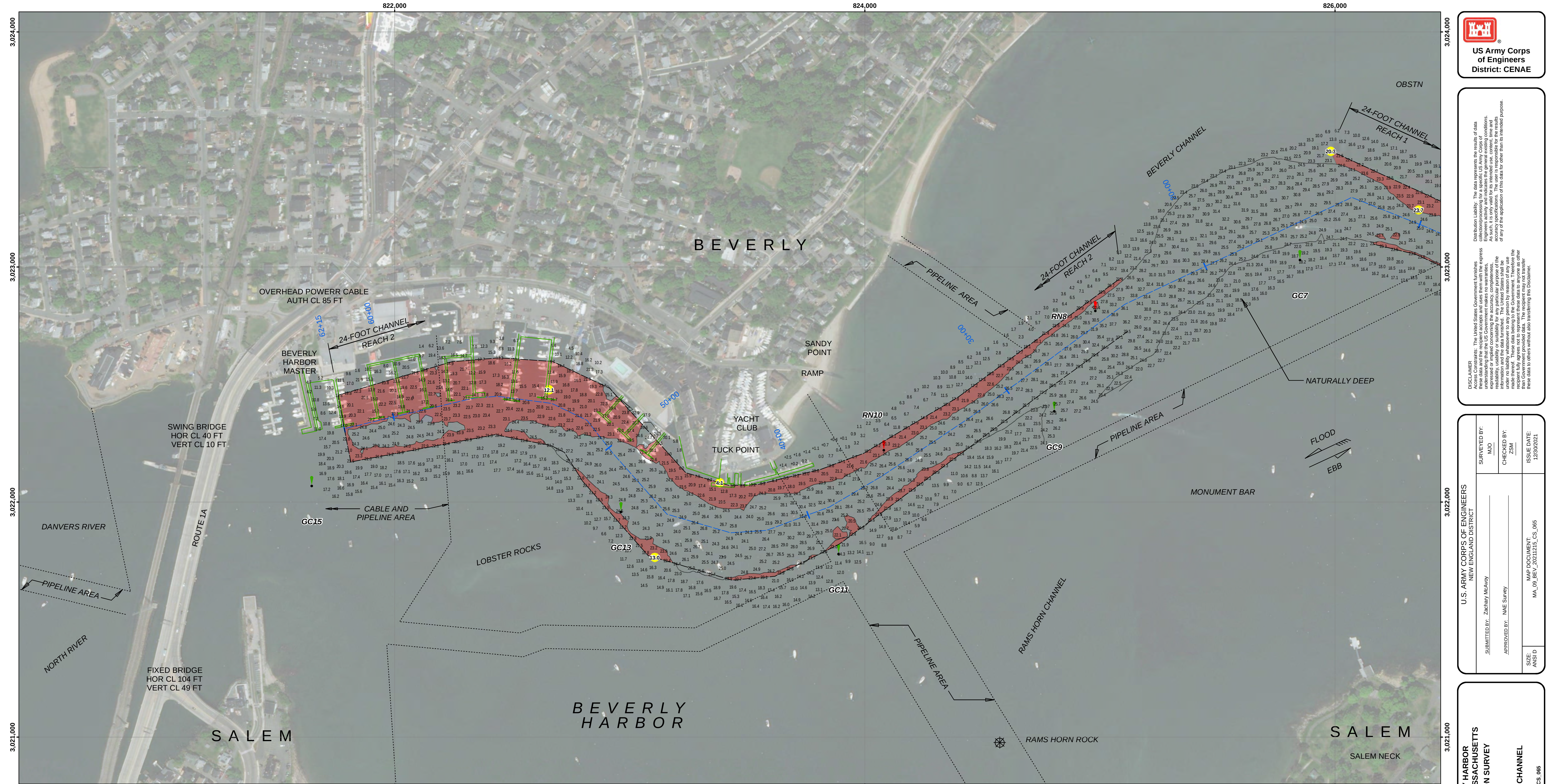




LEGEND

- 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**

GRAPHIC SCALE

1" = 200'

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: 200 kHz
 Survey Method: RTK GPS Tides
 GPS System: Trimble SPS 855
 RTK Base Station: Station JYC (2017)
 Software Used: Hypack
 Sounding Sort Distance: 40'
 Field Books: R&H 4285
 Survey No.: MA_09_BEV_20211215_CS_065
 Reference NOAA Chart No.: 13276

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 December 2021. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthoimagery 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 within federal navigation project limits.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.15 feet. This correction was referenced from NOAA's V-Datum Model Version 4.1, MEIN/HIMA region Version 2.3, in the vicinity of Beverly Harbor, Beverly, Massachusetts. NAVD88 is above MLLW; therefore corrections should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.



DISCLAIMER

Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		MAP DOCUMENT MA_09_BEV_20211215_CS_065	
SUBMITTED BY: Zachary McAvoy	CHECKED BY: ZSM	SIZE A151 D	ISSUE DATE: 12/30/2021
APPROVED BY: NAE Survey			

**BEVERLY HARBOR
BEVERLY, MASSACHUSETTS
CONDITION SURVEY**

24-FOOT CHANNEL

File Name: MA_09_BEV_20211215_CS_065

**SHEET
IDENTIFICATION**

Beverly Harbor

Sheet 2 of 2