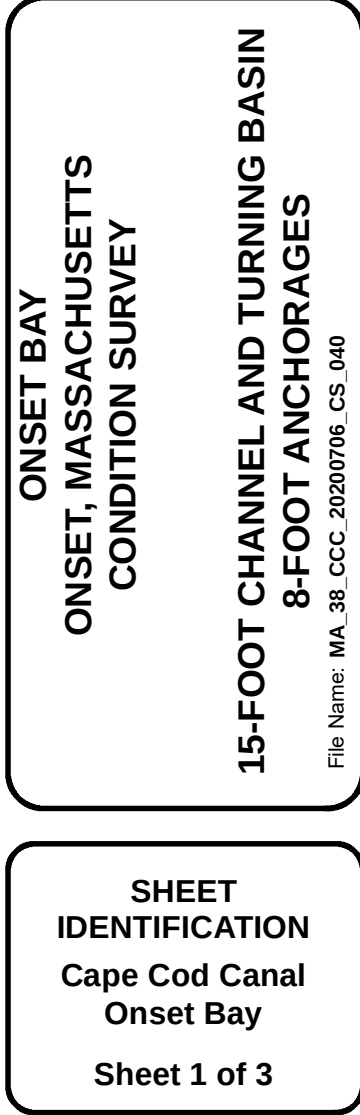






--- Federal Navigation Channel

..... Cable or Pipe Areas

- - - Channel Center Line

— Contour Line

⊗ Obstruction Point

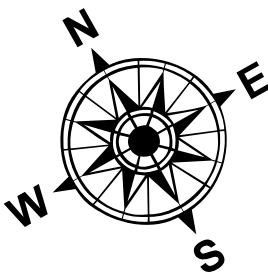
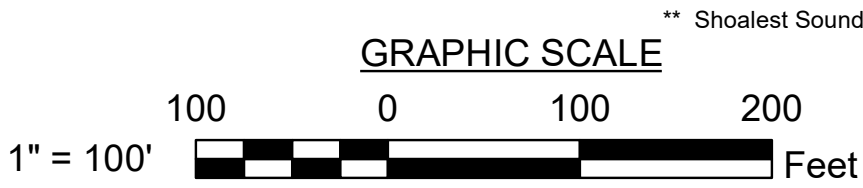
⊗ Fixed Navigation Aids

🚩 Red Navigation Buoy

🚩 Green Navigation Buoy

🔴 Shoaling Area

● Shoalest Sounding**



Notes:

Horizontal Datum: Mass Mainland, MA-2001 NAD 83

Distance Units: U.S. Survey Feet

Vertical Datum: MLLW

Depth Units: U.S. Survey Feet

Vessel Name: POPHAM BEACH

Sonar System: ODOM MK 3 (Singlebeam Sonar)

Sounding Frequency: 200 kHz

Survey Method: RTK GPS TIDES

GPS System: Trimble SPS 855 (RTK)

RTK Base Station: MTS Smartnet Max

Software Used: Hypack

Sounding Sort Distance: 20'

Field Books: R&H 4976

Survey No.: MA_38_CCC_20200706_CS_040

Reference NOAA Chart No.: 13236

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 July 2020. 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

None

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 2.30 feet. This correction is referenced from NOAA's V-Datum Model Version 3.9, MEINHMA region Version 1.3, in the vicinity of Onset Bay, Onset, Massachusetts. The reference point established for the correction is BM NO 1 1931 (2012). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT			
SUBMITTED BY: Zachary McAvoy		SURVEYED BY: MJO	
APPROVED BY: NAE Survey		CHECKED BY: ZSM	
SIZE: ANSI D	MAP DOCUMENT: MA_38_CCC_20200706_CS_040		ISSUE DATE: 7/9/2020

ONSET BAY
ONSET, MASSACHUSETTS
CONDITION SURVEY

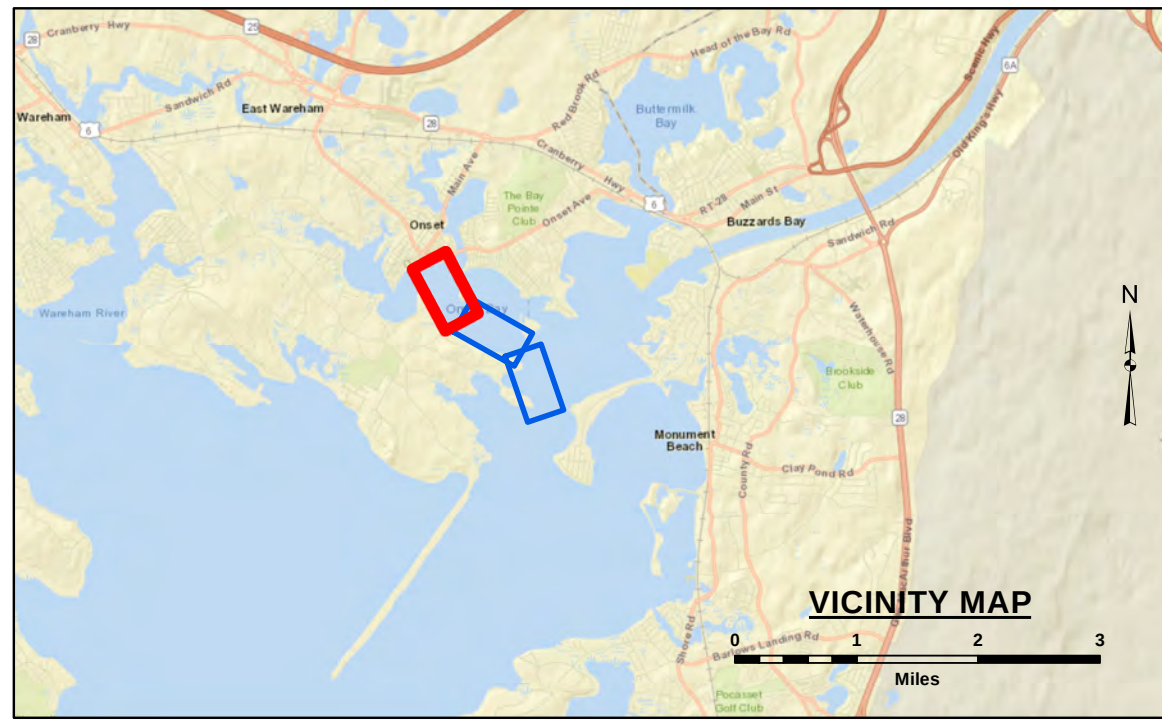
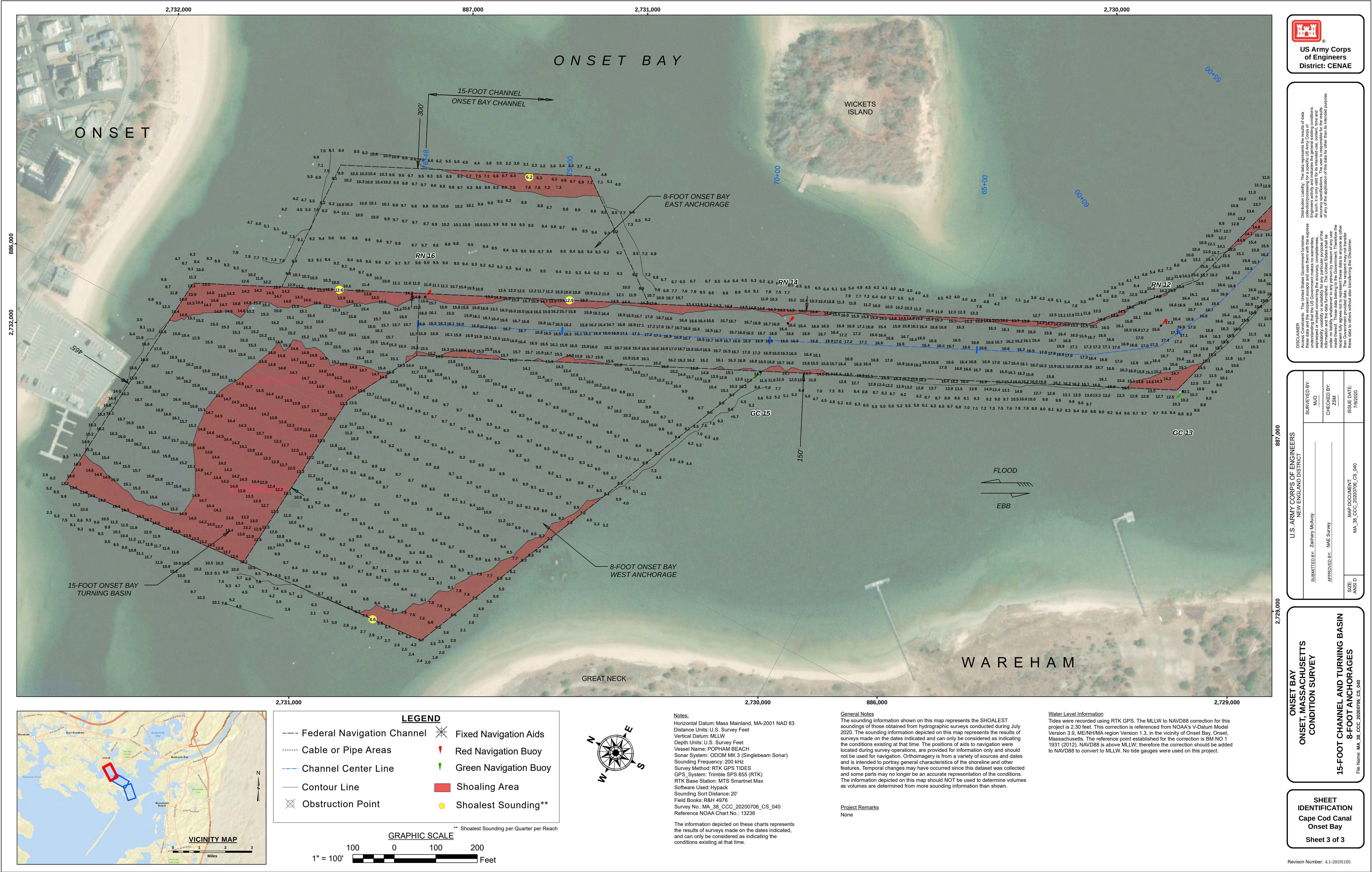
15-FOOT CHANNEL AND TURNING BASIN
8-FOOT ANCHORAGES

File Name: MA_38_CCC_20200706_CS_040

SHEET
IDENTIFICATION

Cape Cod Canal
Onset Bay

Sheet 2 of 3



LEGEND

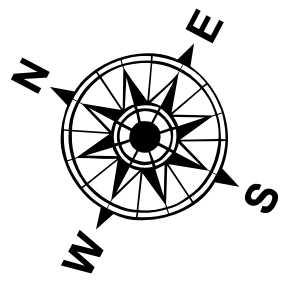
- Federal Navigation Channel
- Cable or Pipe Areas
- - - Channel Center Line
- Contour Line
- ⊗ Obstruction Point
- ⚓ Fixed Navigation Aids
- 🚩 Red Navigation Buoy
- 🟢 Green Navigation Buoy
- 🔴 Shoaling Area
- Shoalest Sounding**

GRAPHIC SCALE

1" = 100'

100 0 100 200 Feet

** Shoalest Sounding per Quarter per Reach



Notes:

Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POFHAM BEACH
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Sounding Frequency: 200 kHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS 855 (RTK)
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Project Remarks

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DISCLAIMER

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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McAvoy		SURVEYED BY: MJO	
APPROVED BY: NAE Survey		CHECKED BY: ZSM		ISSUE DATE: 7/9/2020	
SIZE: ANSI D	MAP DOCUMENT: MA_38_CCC_20200706_CS_040				

ONSET BAY
ONSET, MASSACHUSETTS
CONDITION SURVEY

15-FOOT CHANNEL AND TURNING BASIN
8-FOOT ANCHORAGES

File Name: MA_38_CCC_20200706_CS_040

SHEET IDENTIFICATION

Cape Cod Canal
Onset Bay

Sheet 3 of 3