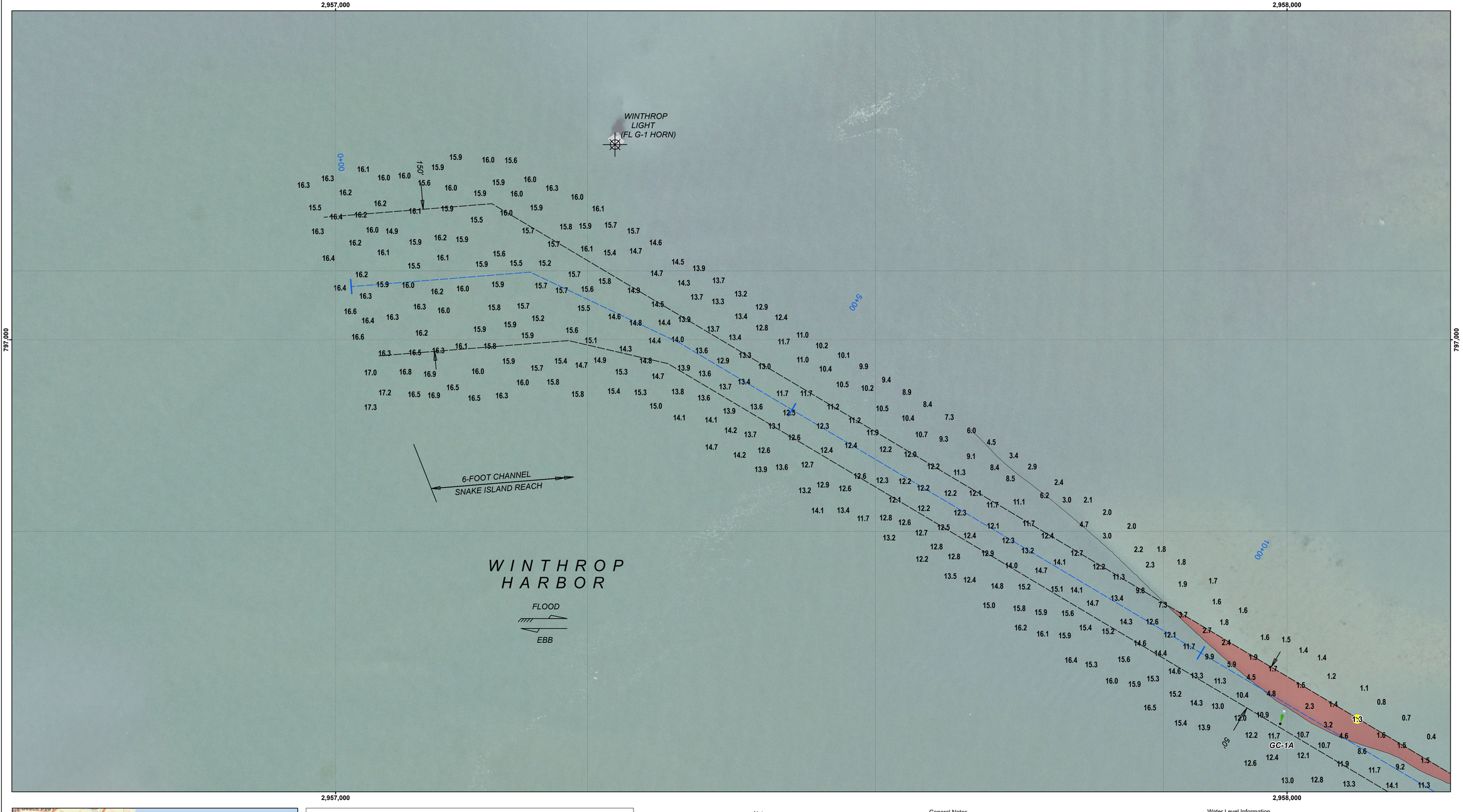
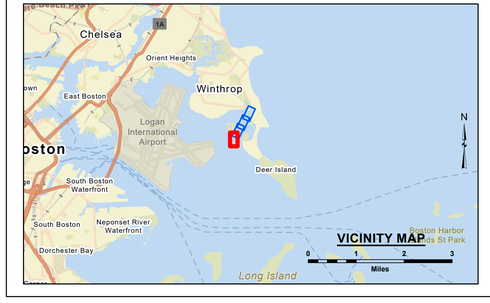




LEGEND

- Federal Navigation Channel
- Cable or Pipe Areas
- Channel Center Line
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach
* Present at time of Survey

GRAPHIC SCALE

1" = 50' 50 0 50 100 Feet

W N S E

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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300-400 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4984
Survey No.: MA_14_WTH_20250423_CS_030
Reference NOAA Chart No.: US5BOSCD

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.

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Project Remarks

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

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model Maine/New Hampshire/Massachusetts Version 2.3. The corrections in the project area range from 5.43 feet to 5.44 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
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: BTM
ISSUE DATE: 4/28/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_14_WTH_20250423_CS_030
SIZE: ANSI D

WINTHROP HARBOR
WINTHROP, MASSACHUSETTS
CONDITION SURVEY

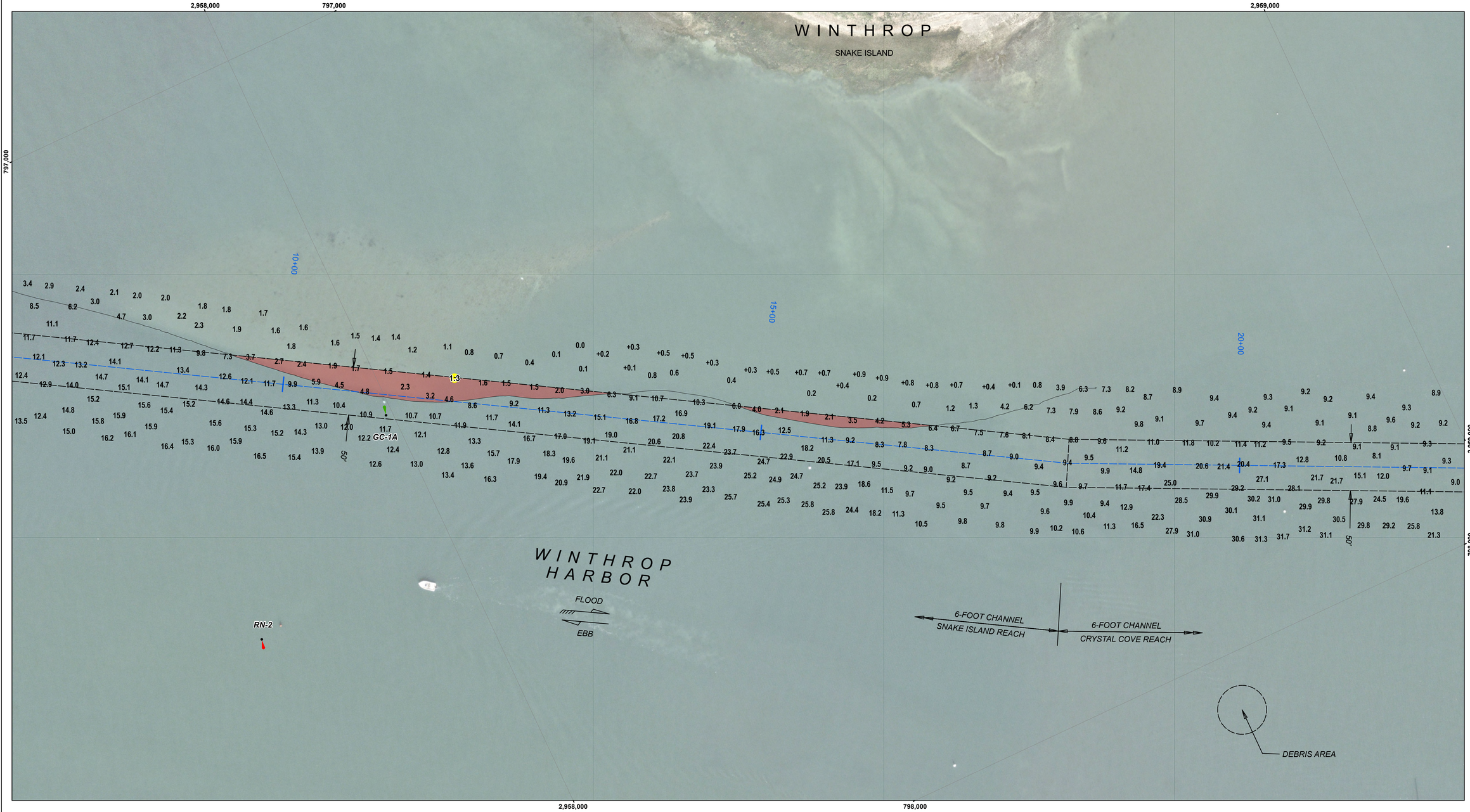
6-FOOT CHANNEL

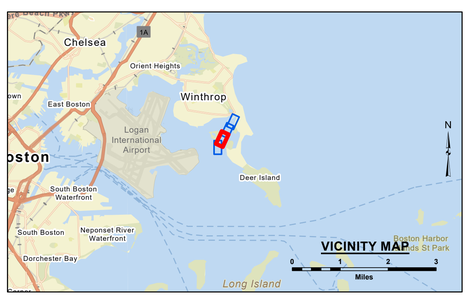
File Name: MA_14_WTH_20250423_CS_030

SHEET IDENTIFICATION
Winthrop Harbor

Sheet 1 of 4

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Cable or Pipe Areas
- Channel Center Line
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach
* Present at time of Survey

GRAPHIC SCALE

1" = 50' (50 0 50 100 Feet)

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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300-400 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4984
Survey No.: MA_14_WTH_20250423_CS_030
Reference NOAA Chart No.: US5BOSCD

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

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: BTM
ISSUE DATE: 4/28/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_14_WTH_20250423_CS_030
SIZE: ANSI D

WINTHROP HARBOR
WINTHROP, MASSACHUSETTS
CONDITION SURVEY

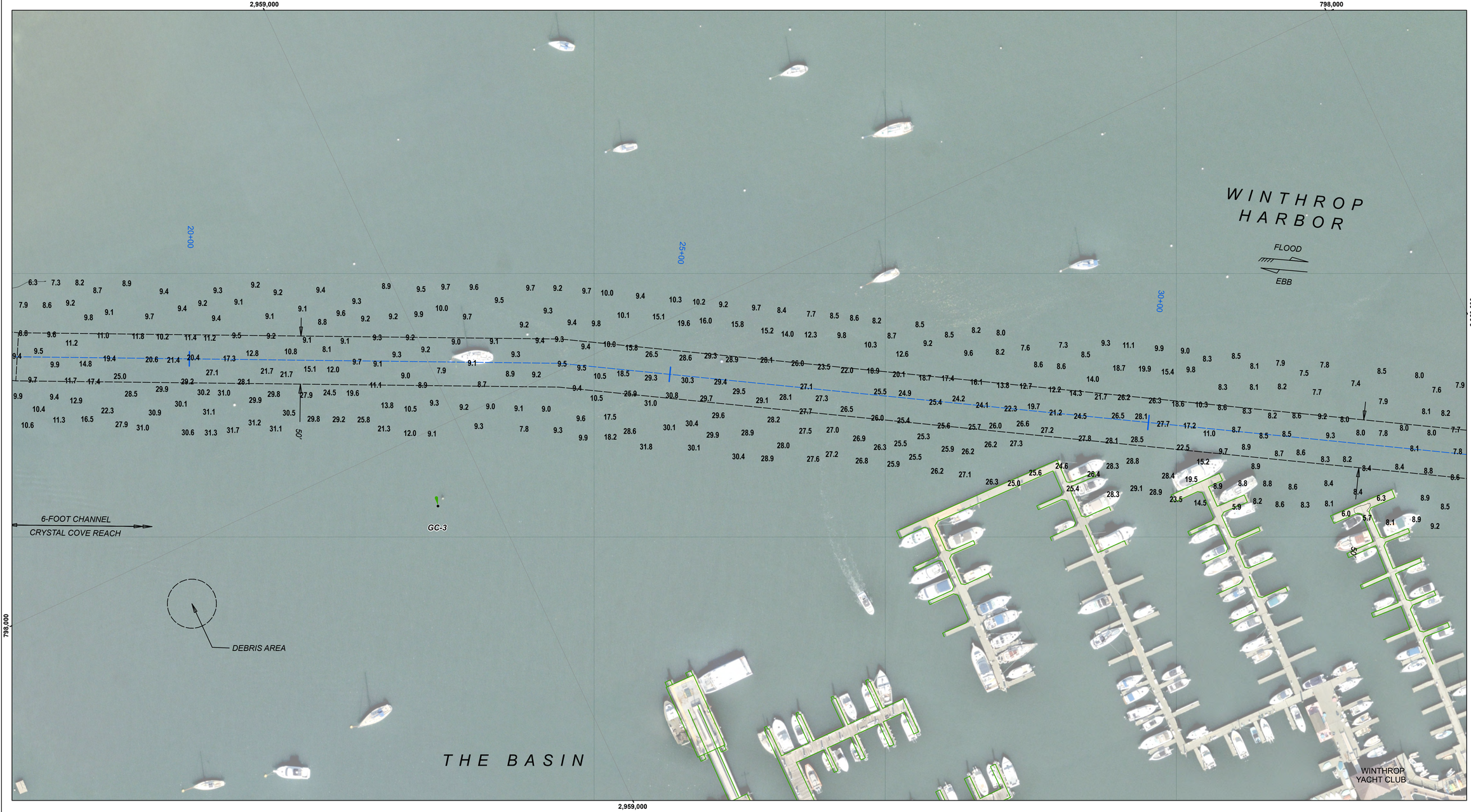
6-FOOT CHANNEL

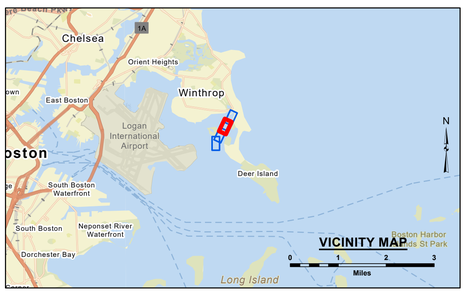
File Name: MA_14_WTH_20250423_CS_030

SHEET IDENTIFICATION
Winthrop Harbor

Sheet 2 of 4

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Cable or Pipe Areas
- Channel Center Line
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach
* Present at time of Survey

GRAPHIC SCALE

50 0 50 100

1" = 50' Feet

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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 300-400 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Max (VRS)
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Sounding Sort Distance: 20'
Field Books: R&H 4984
Survey No.: MA_14_WTH_20250423_CS_030
Reference NOAA Chart No.: US5BOSCD

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NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: BTM
ISSUE DATE: 4/28/2025
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: MA_14_WTH_20250423_CS_030
SIZE: ANSI D

WINTHROP HARBOR
WINTHROP, MASSACHUSETTS
CONDITION SURVEY

6-FOOT CHANNEL

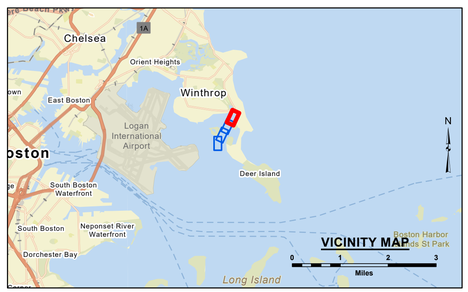
File Name: MA_14_WTH_20250423_CS_030

SHEET IDENTIFICATION
Winthrop Harbor

Sheet 3 of 4

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Cable or Pipe Areas
- Channel Center Line
- Contour Line
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RTK Base Station: MTS Smartnet Max (VRS)
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Sounding Sort Distance: 20'
Field Books: R&H 4984
Survey No.: MA_14_WTH_20250423_CS_030
Reference NOAA Chart No.: USSBOSCD

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
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WINTHROP HARBOR
WINTHROP, MASSACHUSETTS
CONDITION SURVEY

6-FOOT CHANNEL

File Name: MA_14_WTH_20250423_CS_030

SHEET IDENTIFICATION
Winthrop Harbor

Sheet 4 of 4

Revision Number: 5.24.09.03-5.24.09.03