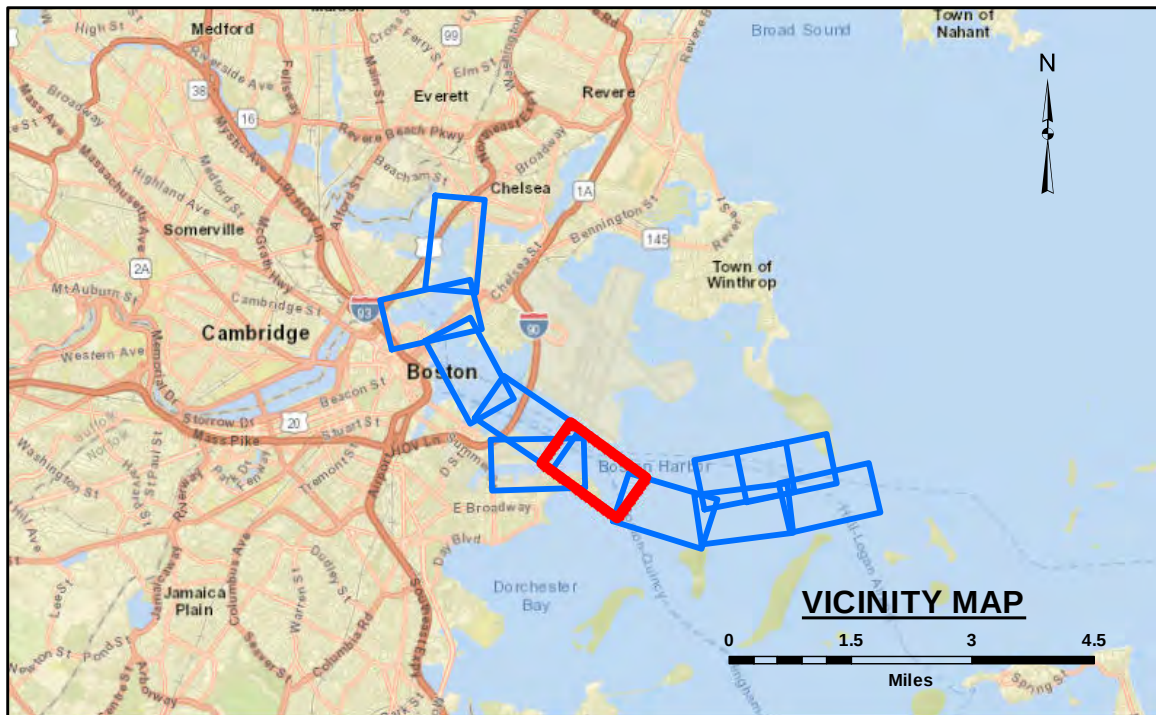
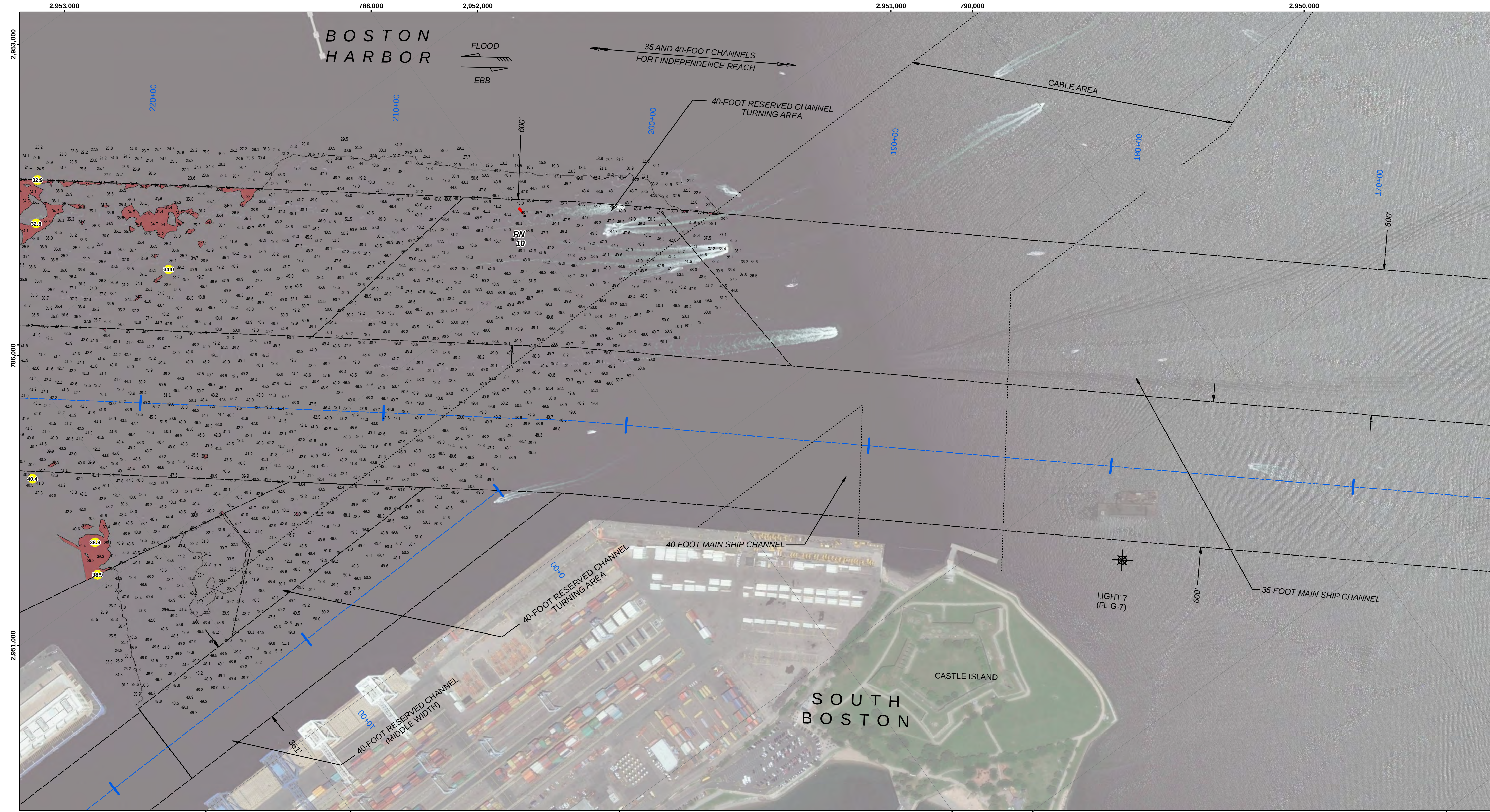
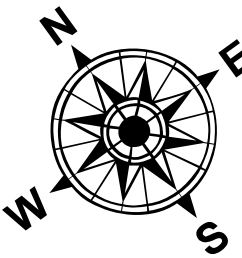
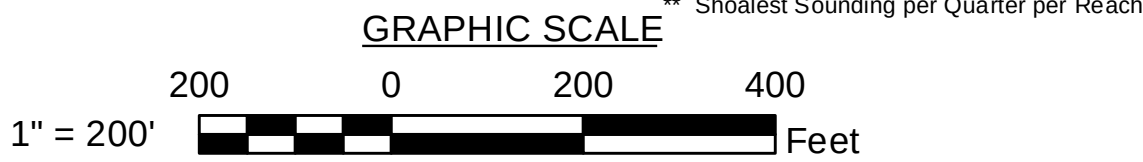




LEGEND

---	Federal Navigation Channel	⊗	Fixed Navigation Aids
---	Channel Center Line	●	Red Navigation Buoy
---	Cable or Pipeline Area	●	Green Navigation Buoy
---	Contour Line	●	Yellow Navigation Buoy
⊗	Obstruction Point	■	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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4564
Survey No.: MA_18_BOS_20210428_CS_014
Reference NOAA Chart No.: 13272

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 April 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. 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

Federal navigation project not surveyed in its entirety, coverage excludes restricted areas around USS Constitution and USCG base.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

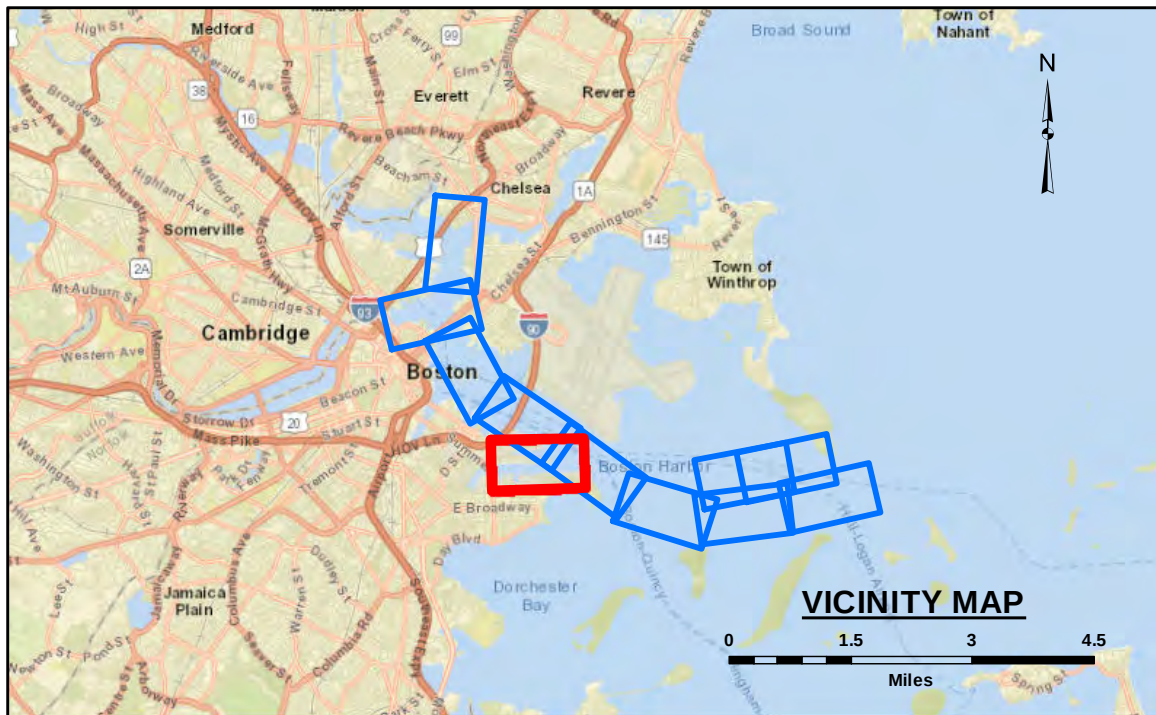
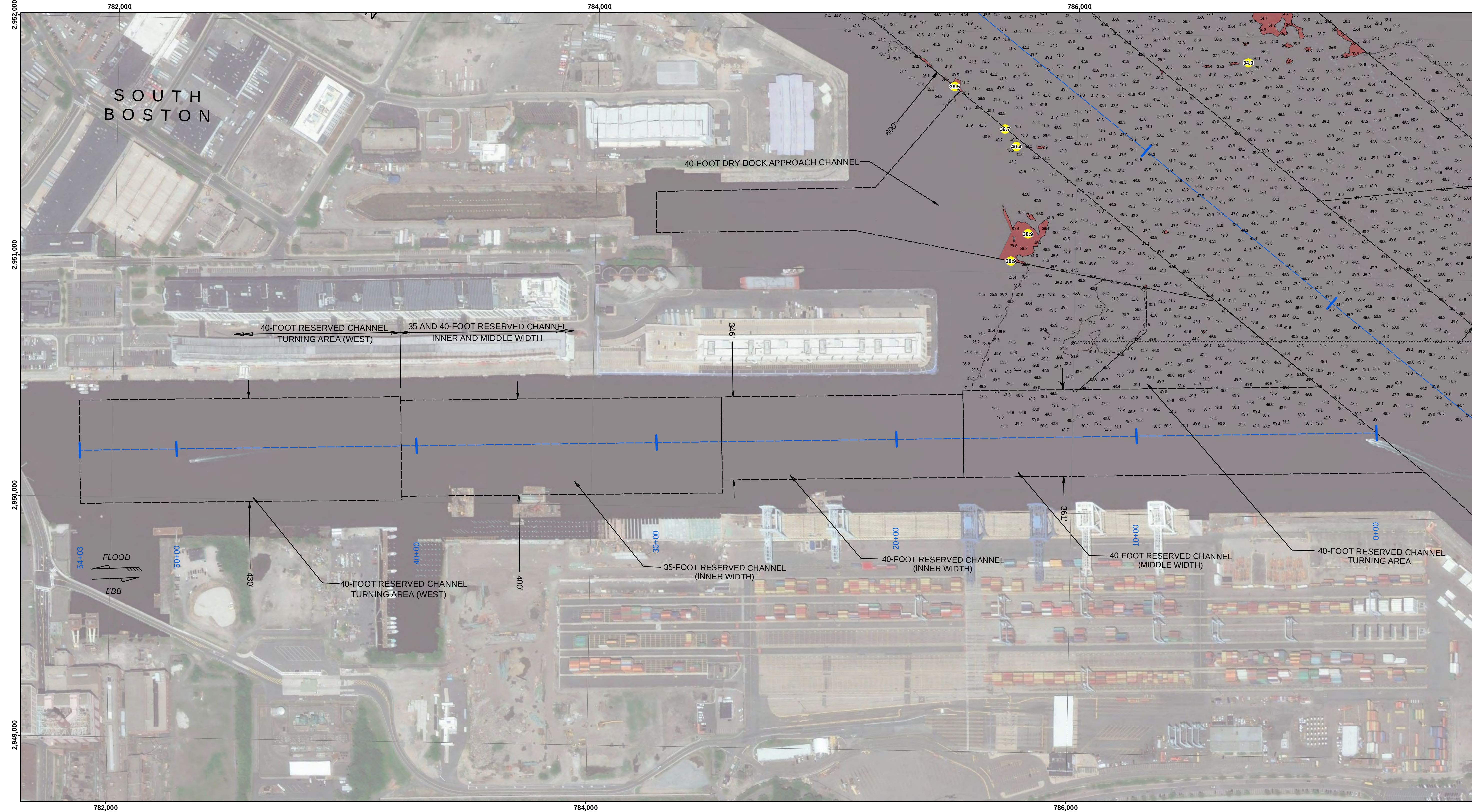


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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McNay	
		APPROVED BY: NAE Survey	
		CHECKED BY: ZSM	
		ISSUE DATE: 3/5/2021	
		MAP DOCUMENT: MA_18_BOS_20210428_CS_014	
		SIZE: A1S1D	

BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
35 AND 40-FOOT MAIN SHIP CHANNELS
35-FOOT ANCHORAGE
40-FOOT INNER CONFLUENCE
40-FOOT PRESIDENT ROADS ANCHORAGE

SHEET
IDENTIFICATION
Boston Harbor
Sheet 6 of 11



LEGEND

Federal Navigation Channel

Channel Center Line

.....

Cable or Pipeline Area

Contour Line

⊗

Obstruction Point

⊗

Fixed Navigation Aids

●

Red Navigation Buoy

●

Green Navigation Buoy

●

Yellow Navigation Buoy

■

Shoaling Area

●

Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

1" = 200'

200

0

200

400

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: 400 KHz
Survey Method: RTK GPS TIDES
GPS_System: Trimble SPS 855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4564
Survey No.: MA_18_BOS_20210428_CS_014
Reference NOAA Chart No.: 13272

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
Federal navigation project not surveyed in its entirety, coverage excludes restricted areas around USS Constitution and USCG base.

Water Level Information
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US Army Corps
of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McNay	
		CHECKED BY: ZSM	
		APPROVED BY: NAE Survey	
		ISSUE DATE: 3/5/2021	
SIZE A1S1D	MAP DOCUMENT MA_18_BOS_20210428_CS_014		

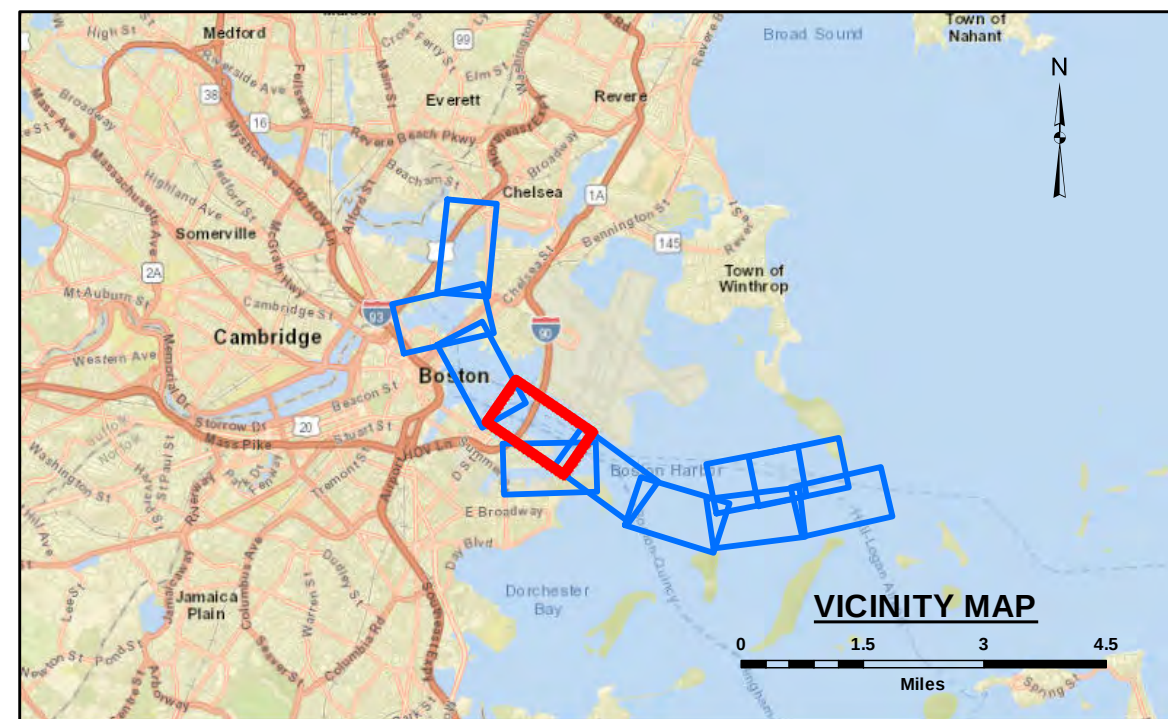
BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY

35 AND 40-FOOT MAIN SHIP CHANNELS
35-FOOT INNER ANCHORAGE
40-FOOT INNER CONFLUENCE
40-FOOT PRESIDENT ROADS ANCHORAGE

**SHEET
IDENTIFICATION**
Boston Harbor

Sheet 7 of 11

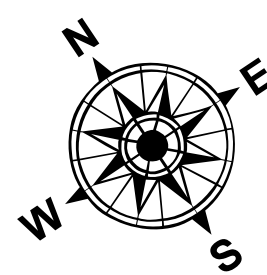
Revision Number: 4.2-20200420



GRAPHIC SCALE ** Shoalest Sounding per Quarter per Reach

200 0 200 400

1" = 200'  Feet



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.

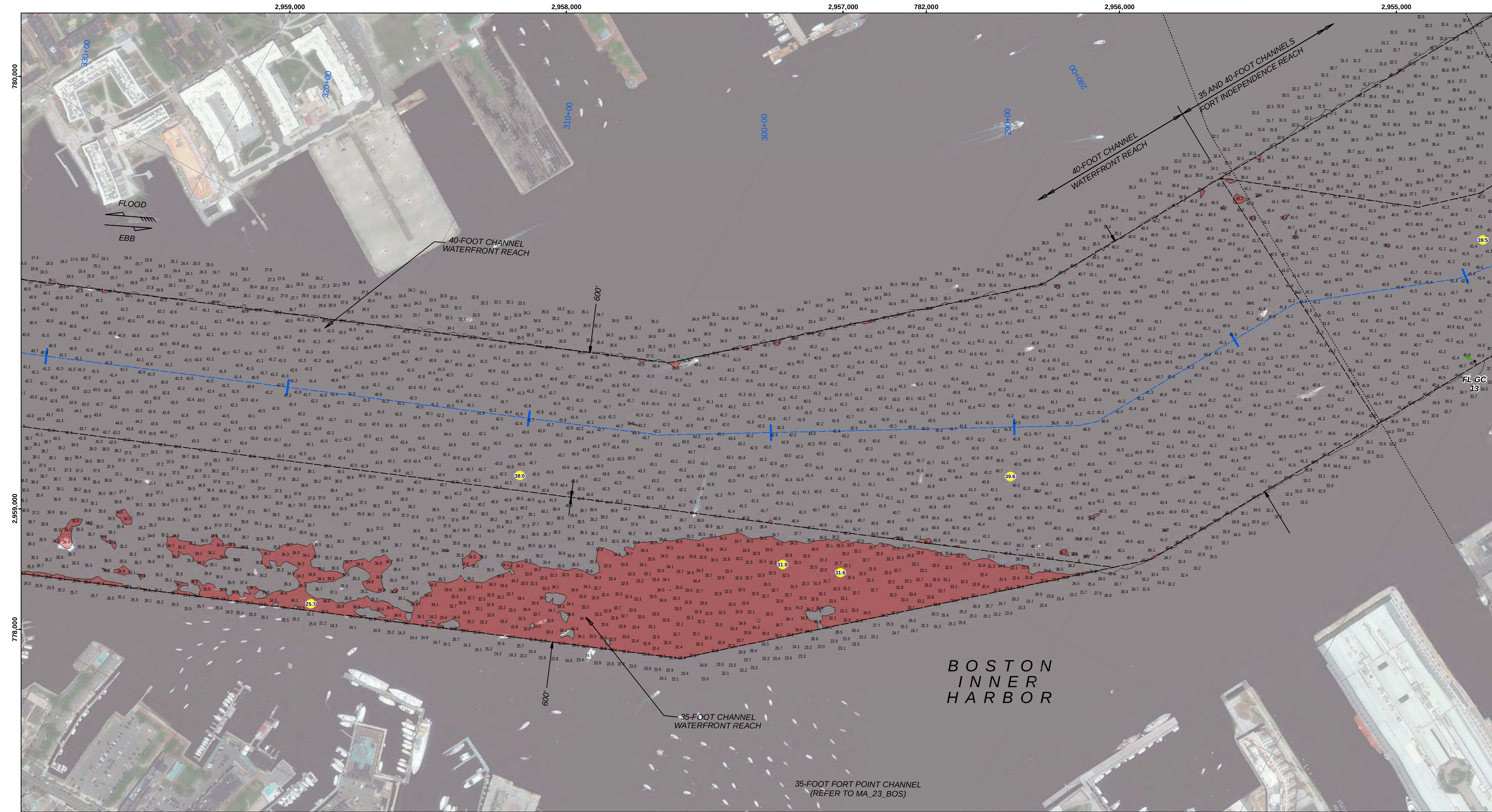
Project Remarks
Federal navigation project not surveyed in its entirety, coverage excludes restricted areas around USS Constitution and USCG base.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project

**SHEET
IDENTIFICATION**
Boston Harbor

Sheet 8 of 11



LEGEND

--- Federal Navigation Channel

--- Channel Center Line

..... Cable or Pipeline Area

— Contour Line

⊗ Obstruction Point

⊗ Fixed Navigation Aids

● Red Navigation Buoy

● Green Navigation Buoy

● Yellow Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

1" = 200'

0 200 400 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: 400 kHz
Survey Method: RTK GPS TIDES
GPS_System: Trimble SPS 855 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4564
Survey No.: MA_18_BOS_20210428_CS_014
Reference NOAA Chart No.: 13272

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during April 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. Orthorectification 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
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Water Level Information
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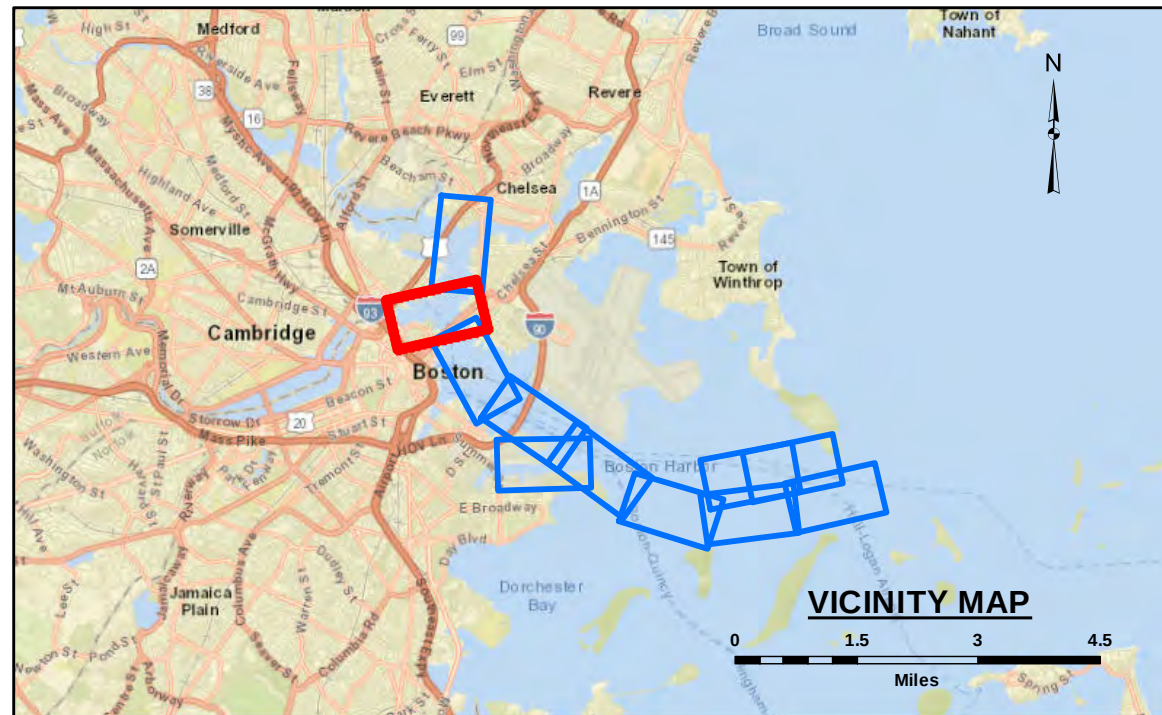
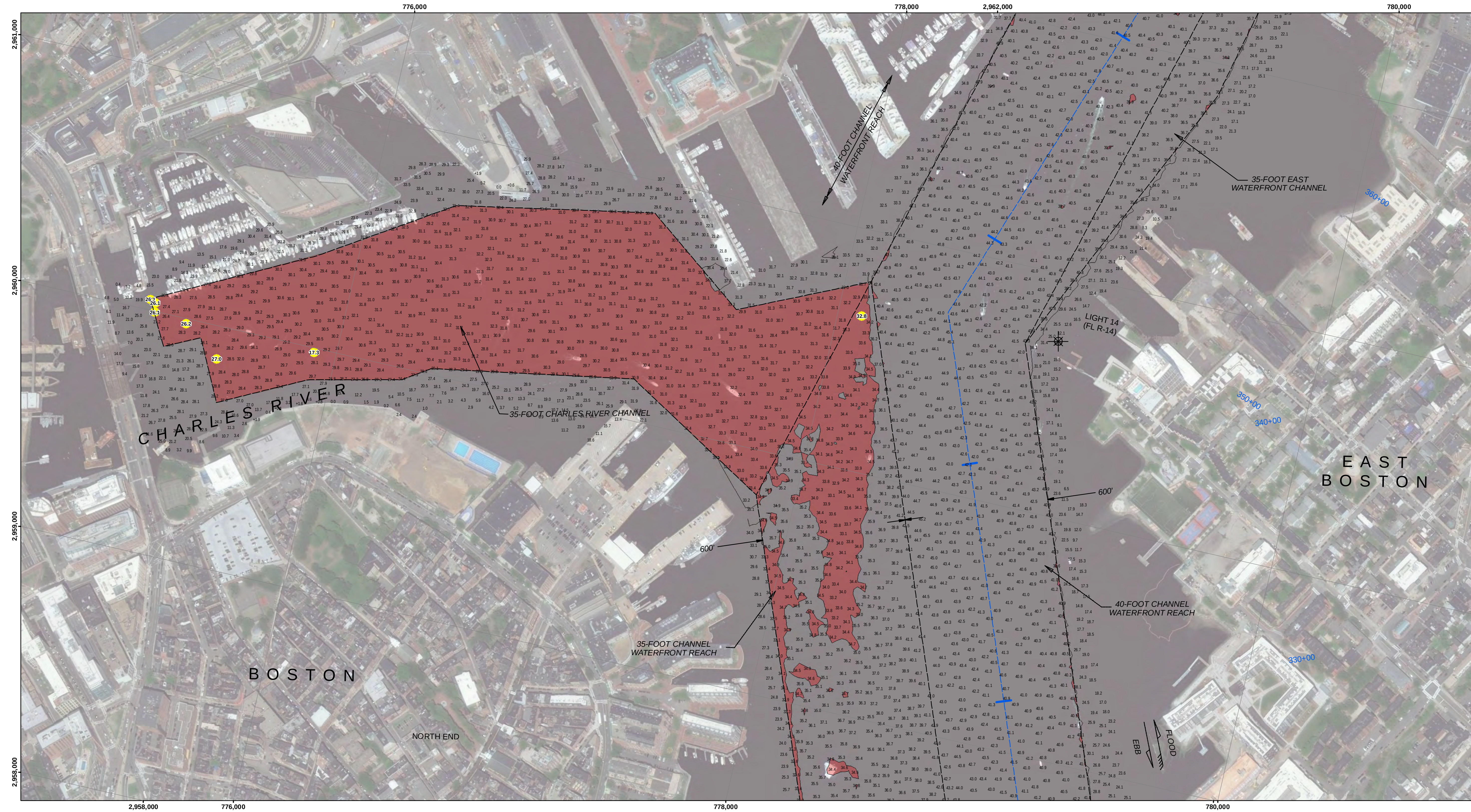


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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	SURVEYED BY: PJB	CHECKED BY: ZSM	ISSUE DATE: 05/2021
	SUBMITTED BY: Zachary McNary	APPROVED BY: NAE Survey	MAP DOCUMENT: MA_18_BOS_20210428_CS_014
SIZE A1S1D			

BOSTON HARBOR
BOSTON, MASSACHUSETTS
CONDITION SURVEY
35 AND 40-FOOT MAIN SHIP CHANNELS
35-FOOT INNER ANCHORAGE
40-FOOT PRESIDENT ROADS ANCHORAGE

SHEET IDENTIFICATION
Boston Harbor
Sheet 9 of 11



LEGEND

Federal Navigation Channel

Channel Center Line

.....

Cable or Pipeline Area

Contour Line

⊗

Obstruction Point

⊗

Fixed Navigation Aids

●

Red Navigation Buoy

●

Green Navigation Buoy

●

Yellow Navigation Buoy

■

Shoaling Area

●

Shoalest Sounding**

GRAPHIC SCALE

200

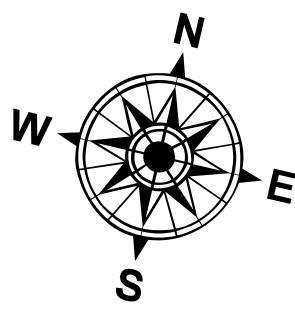
0

200

400

1" = 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: KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 400 KHz
Survey Method: RTK GPS TIDES
GPS System: Trimble SPS 885 (RTK)
RTK Base Station: Castle (2014)
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4564
Survey No.: MA_18_BOS_20210428_CS_014
Reference NOAA Chart No.: 13272

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Project Remarks
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Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project



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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Zachary McAvoy		SURVEYED BY: PJB	
		APPROVED BY: NAE Survey		CHECKED BY: ZSM	
SIZE: A1/S1D		MAP DOCUMENT: MA_18_BOS_20210428_CS_014			
		ISSUE DATE: 3/5/2021			

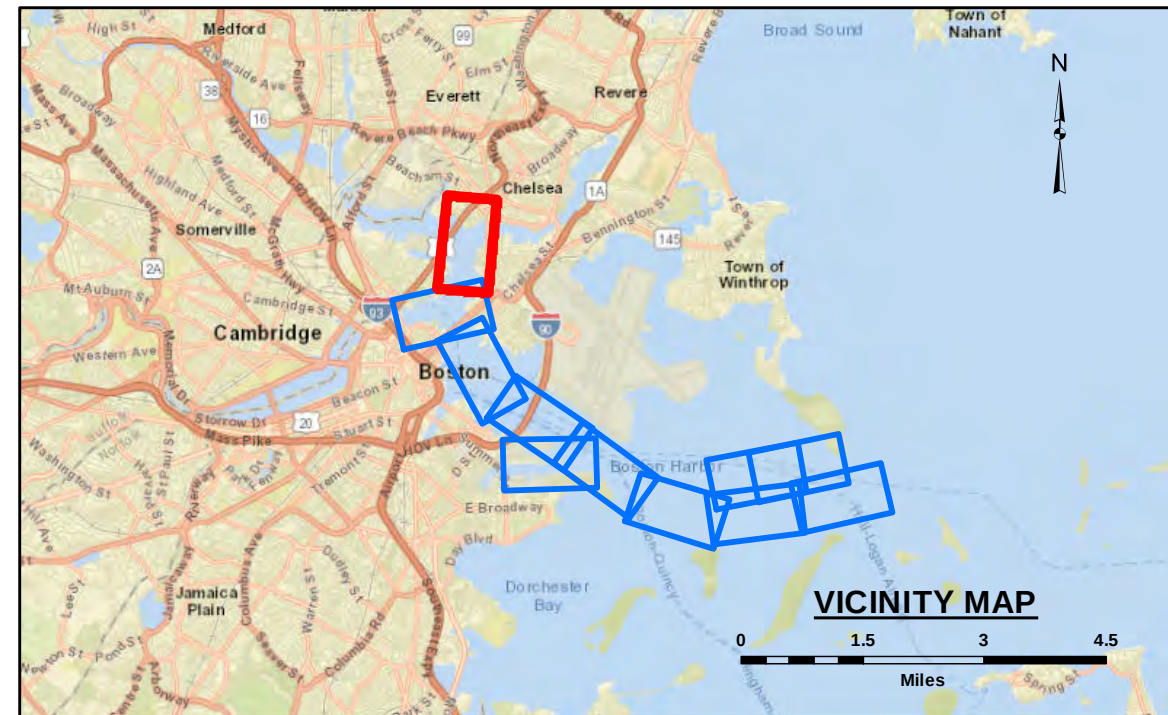
**BOSTON HARBOR
MASSACHUSETTS
CONDITION SURVEY**

35 AND 40-FOOT MAIN SHIP CHANNELS
35-FOOT ANCHORAGE
40-FOOT INNER CONFLUENCE
40-FOOT PRESIDENT ROADS ANCHORAGE

**SHEET
IDENTIFICATION**

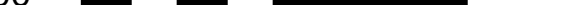
Boston Harbor

Sheet 10 of 11



GRAPHIC SCALE ** Shoalest Sounding per Quarter per Reach

200 0 200 400

1" = 200'  Feet



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Project Remarks
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Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.51 feet. This correction was established in the vicinity of NOAA bench marks at Boston, Boston Harbor, Massachusetts (Station ID 8443970, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project