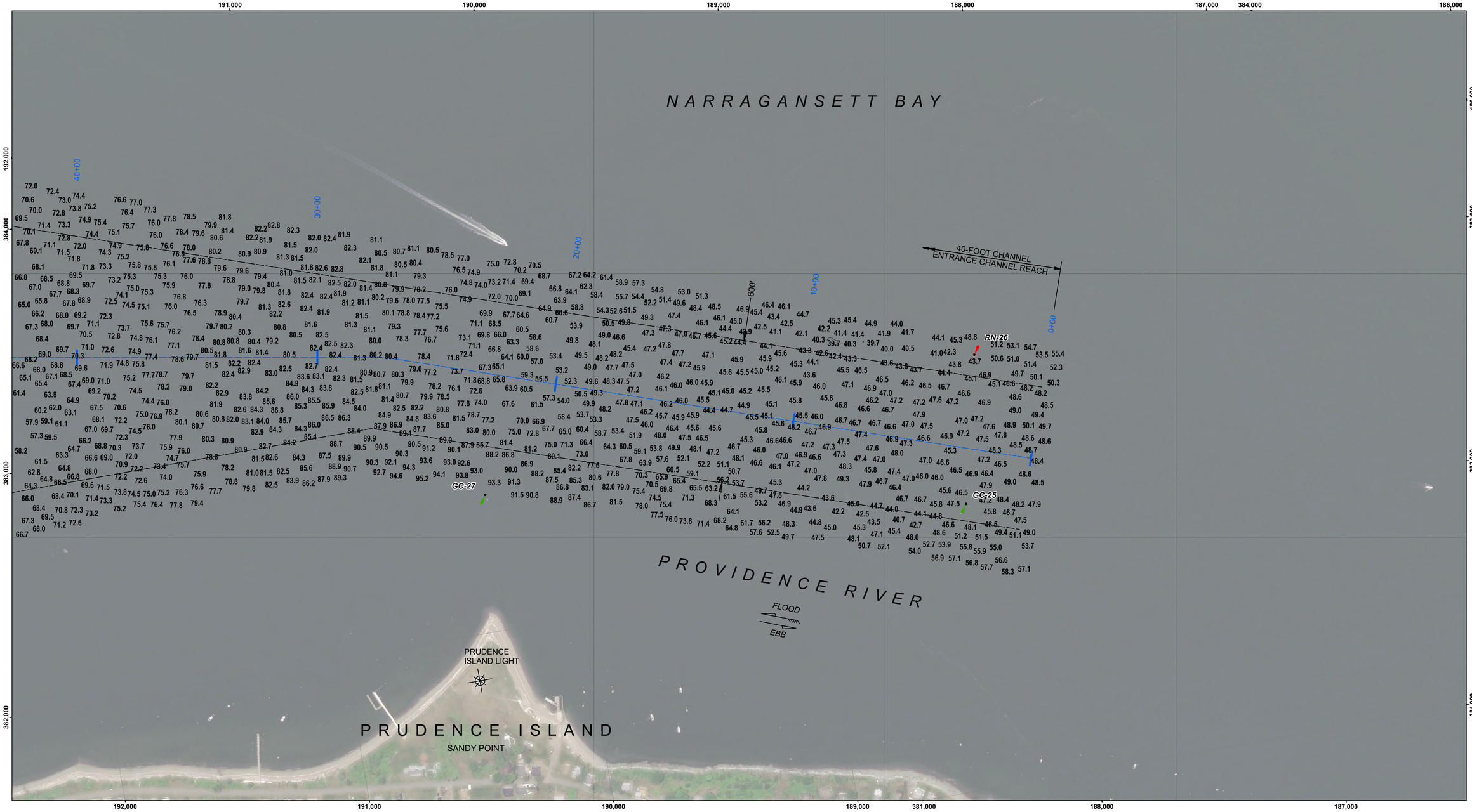
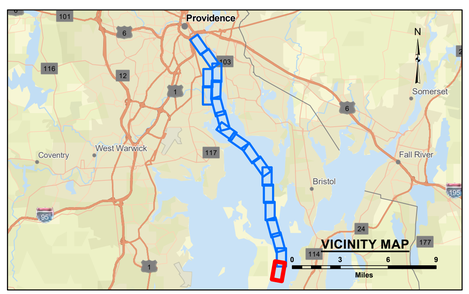



## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine 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 NY/CT/RI Region Version 4.8. The corrections in the project area range from 2.17 feet to 2.48 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

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

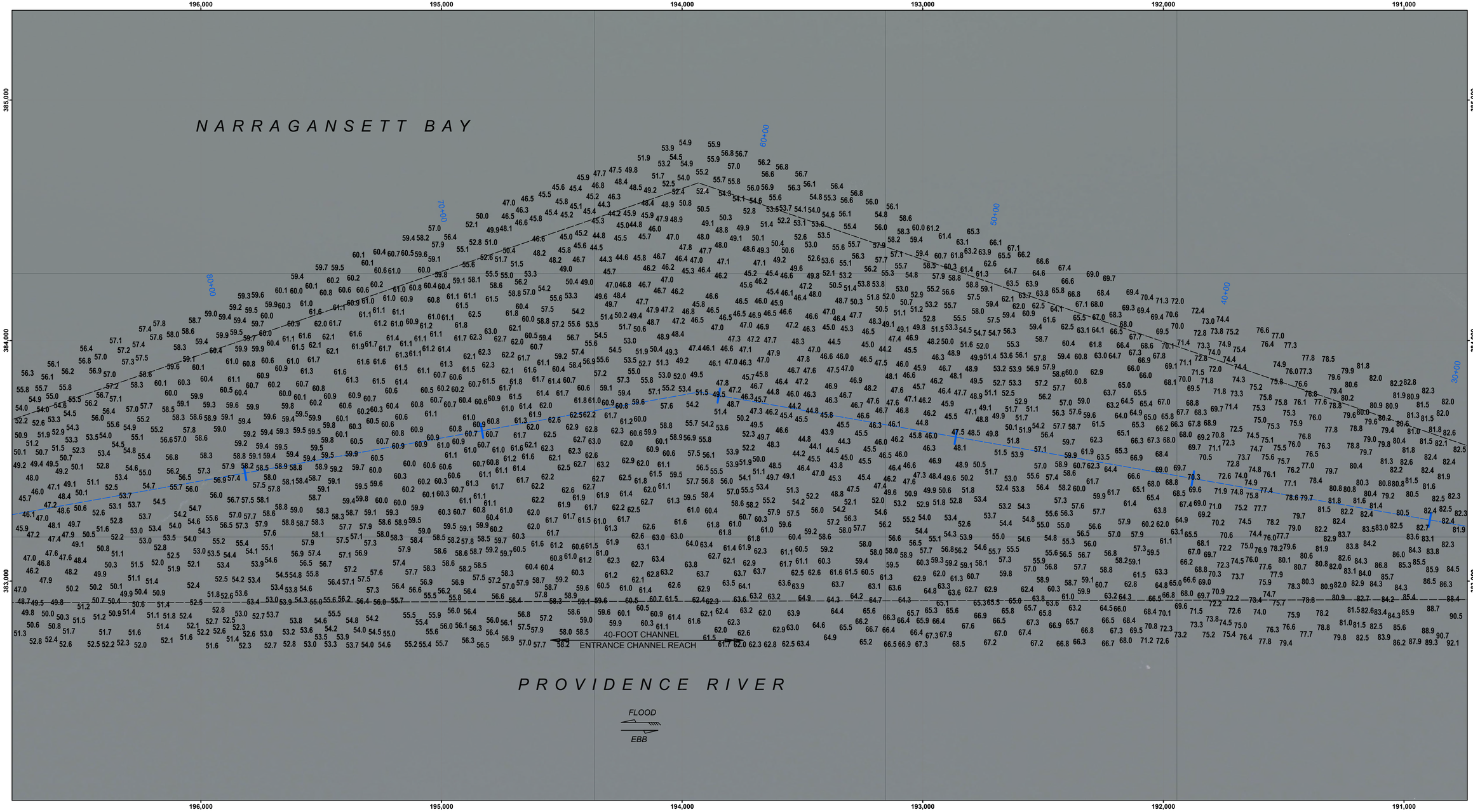
# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
## CONDITION SURVEY
## 40-FOOT CHANNEL

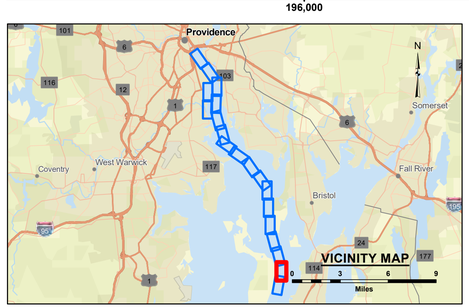
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SHEET IDENTIFICATION
Providence River

Sheet 1 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance:50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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

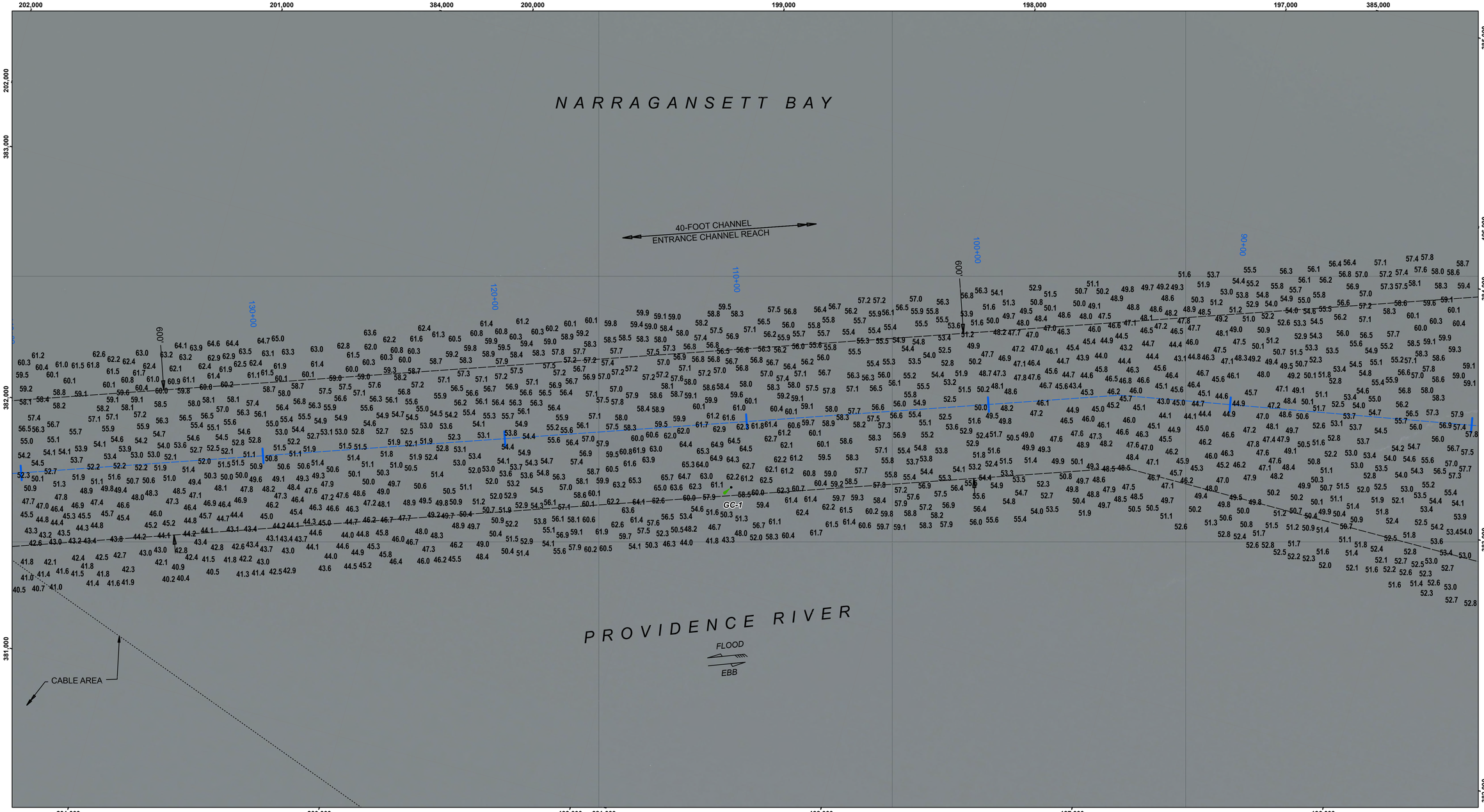
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

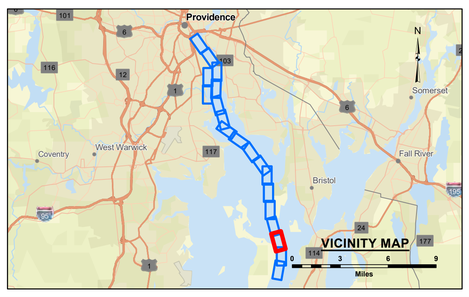
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**
**Sheet 2 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200' 200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

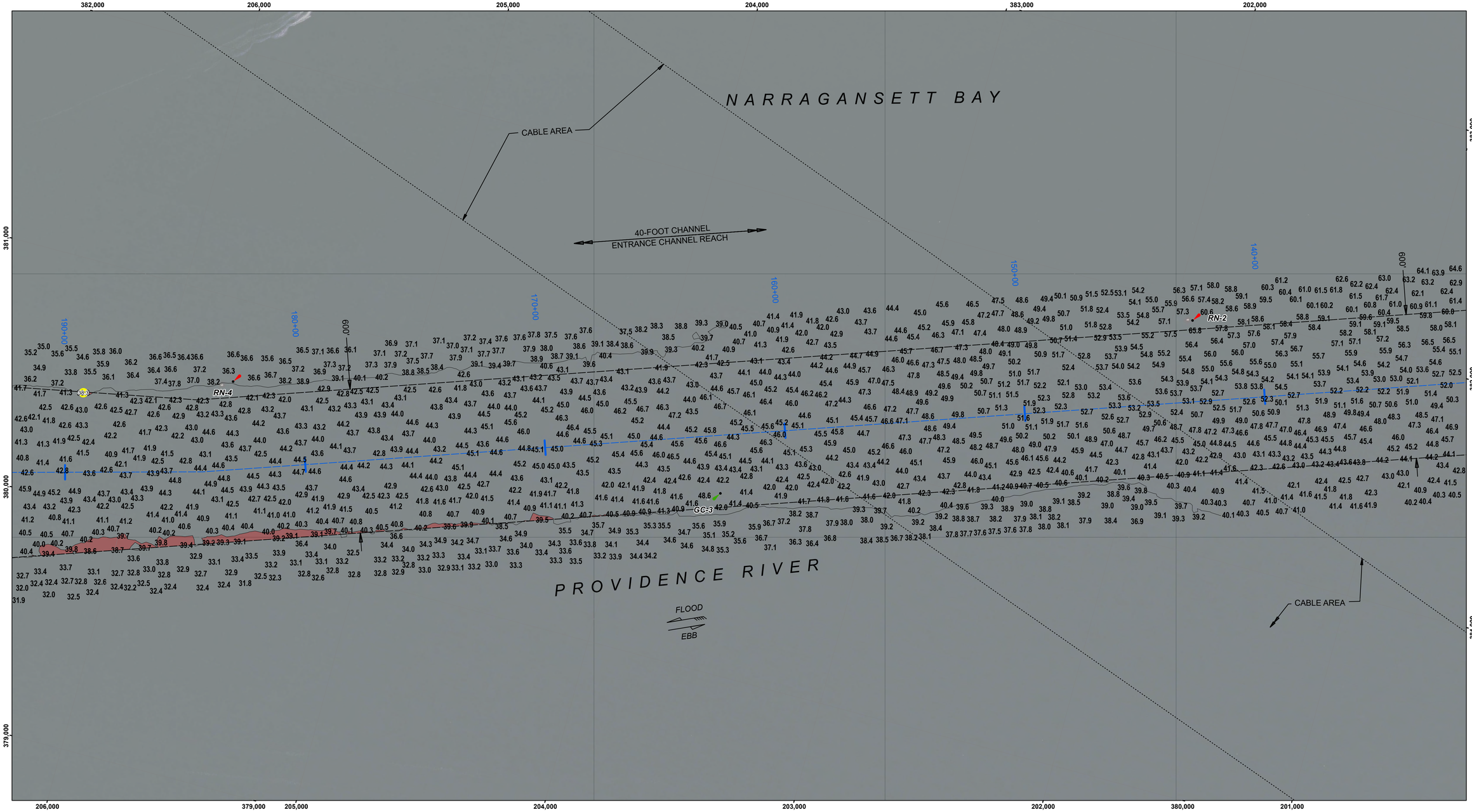
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

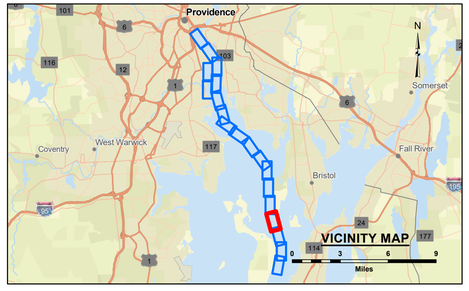
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**SHEET IDENTIFICATION**
**Providence River**

**Sheet 3 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200'

200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

Water Level Information
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US Army Corps of Engineers
District: CENAE

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NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

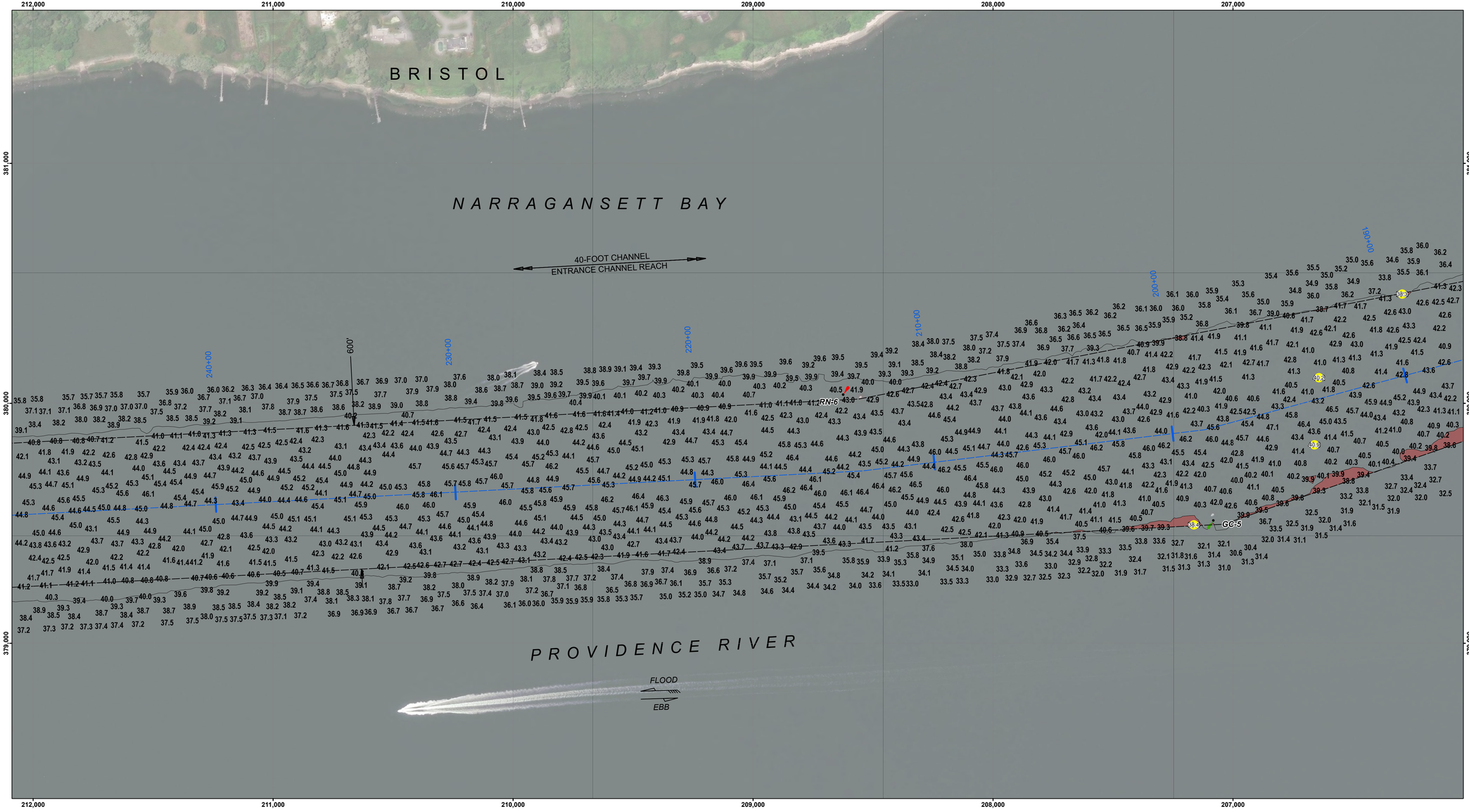
PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
CONDITION SURVEY
40-FOOT CHANNEL

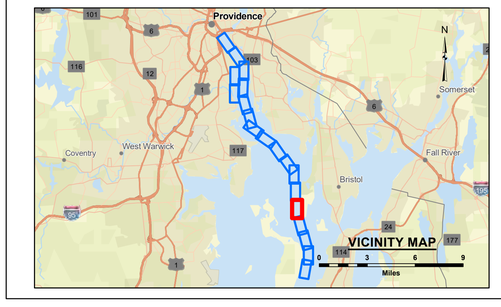
File Name: RI_06_PRO_20260115_CS_003

SHEET IDENTIFICATION
Providence River

Sheet 4 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

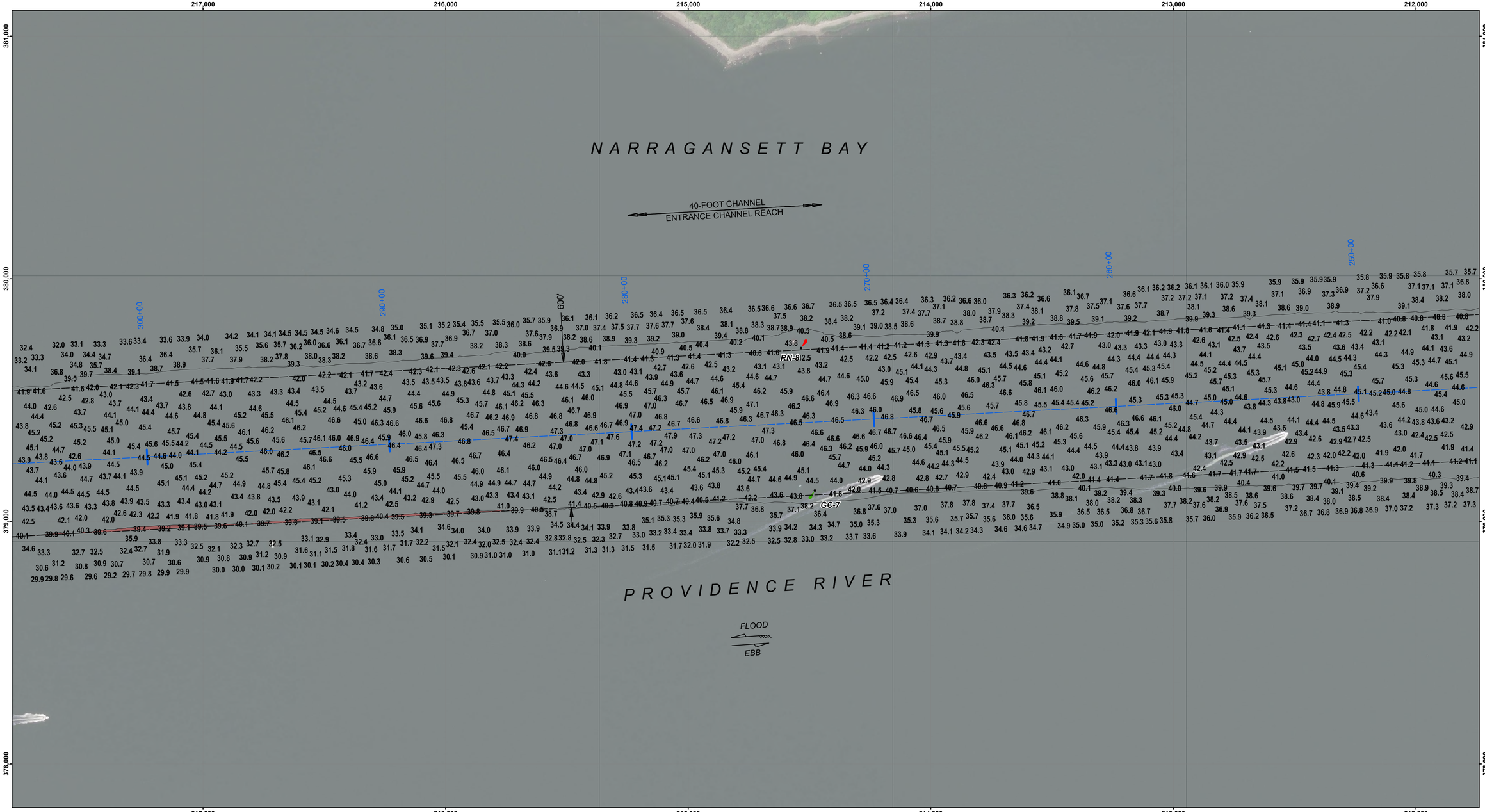
PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
CONDITION SURVEY
40-FOOT CHANNEL

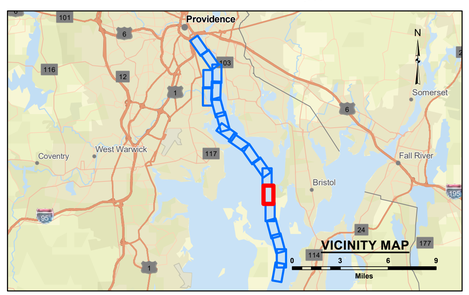
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SHEET IDENTIFICATION
Providence River

Sheet 5 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
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Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
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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: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

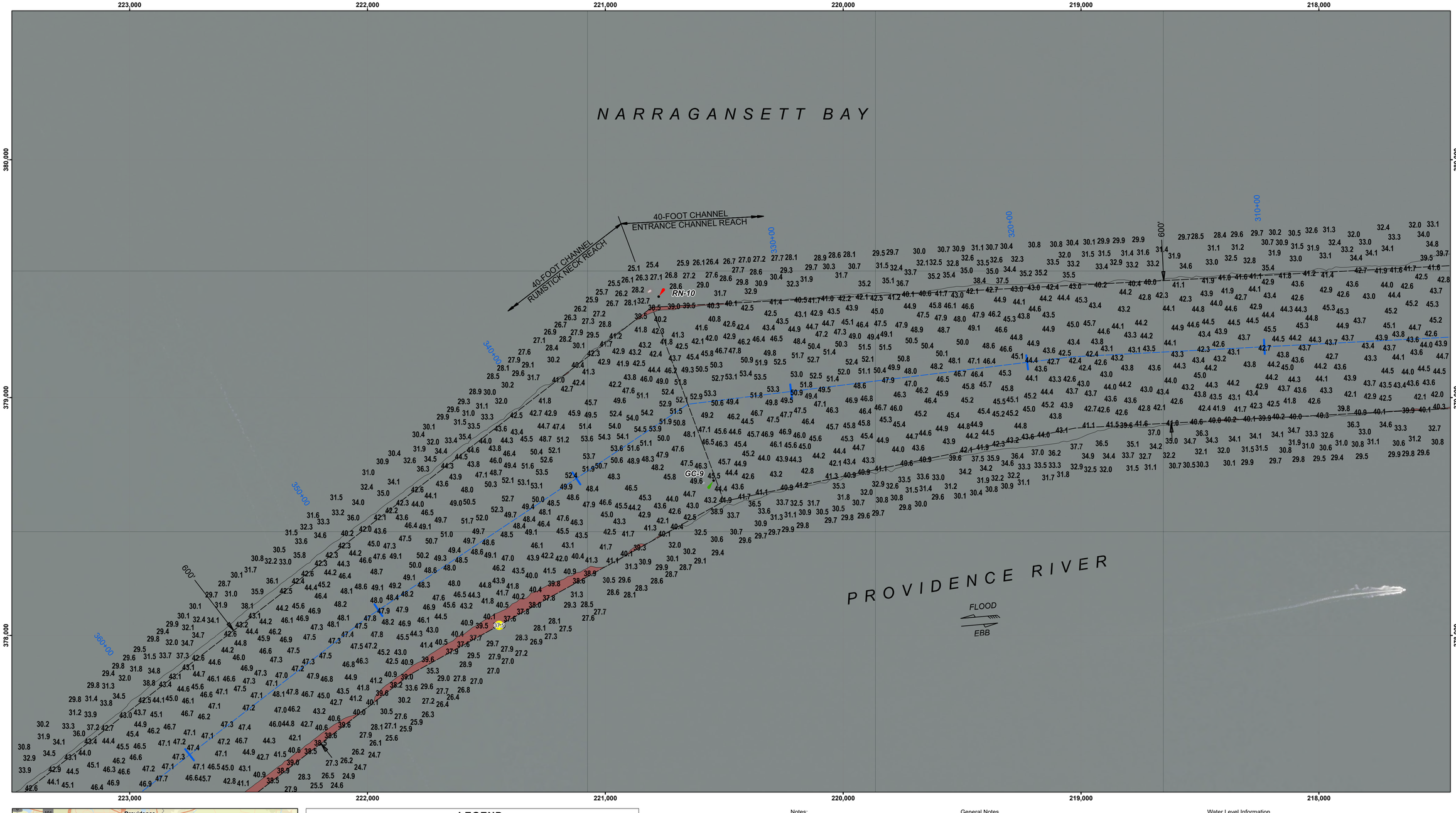
# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
# CONDITION SURVEY
# 40-FOOT CHANNEL

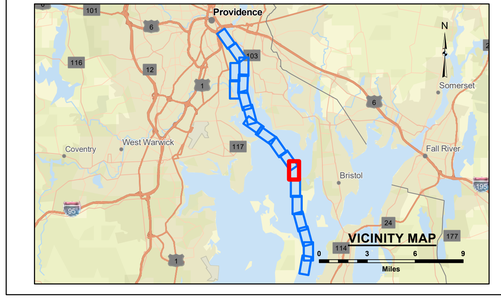
File Name: RI_06_PRO_20260115_CS_003

SHEET IDENTIFICATION
Providence River

Sheet 6 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE
200 0 200 400
1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine 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 NY/CT/RI Region Version 4.8. The corrections in the project area range from 2.17 feet to 2.48 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

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

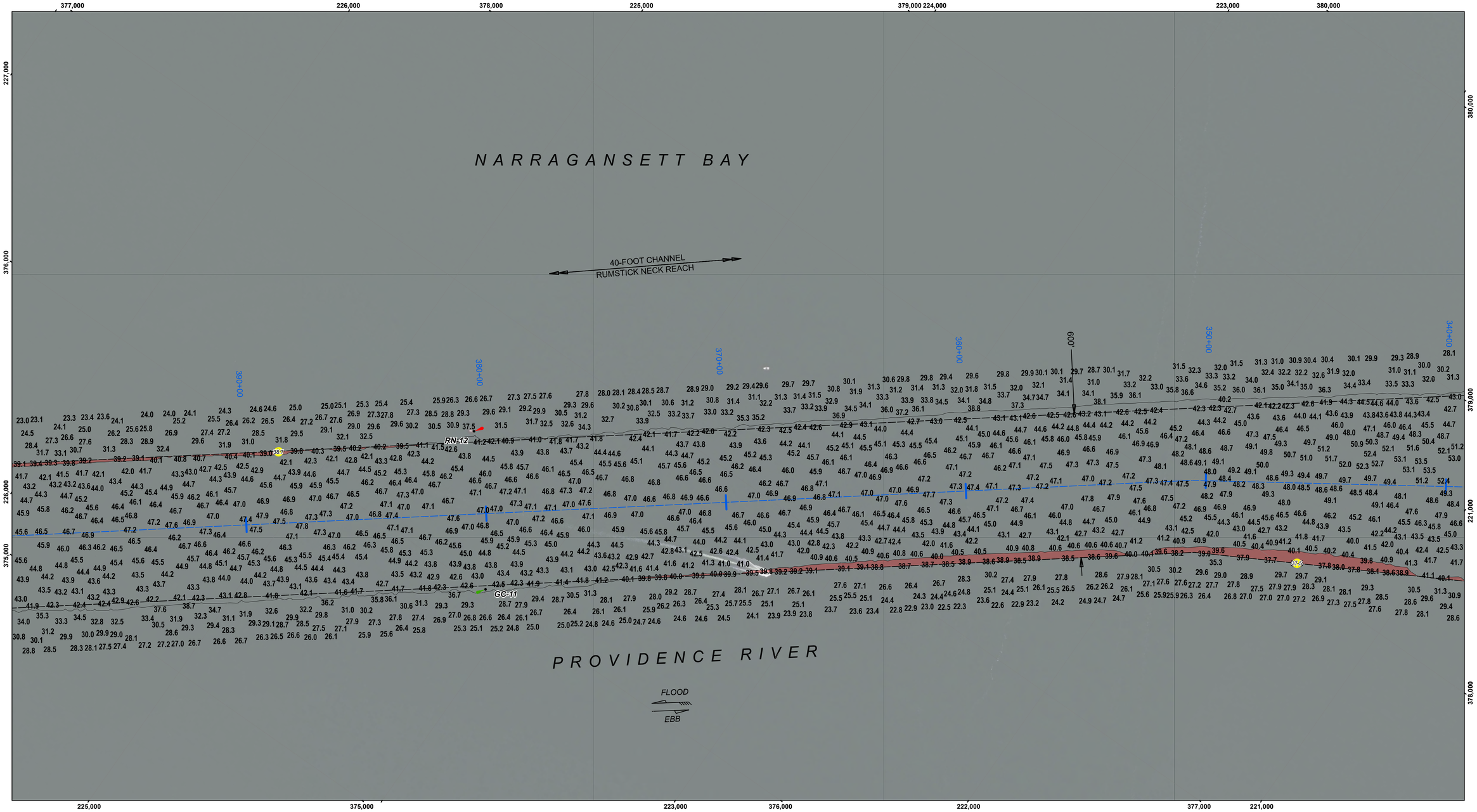
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

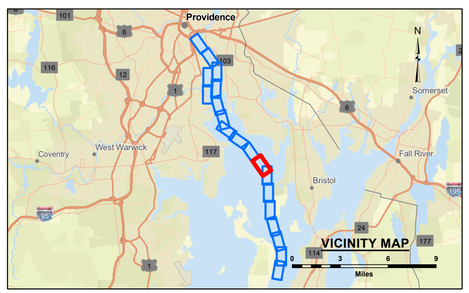
File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 7 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200' 200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
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District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

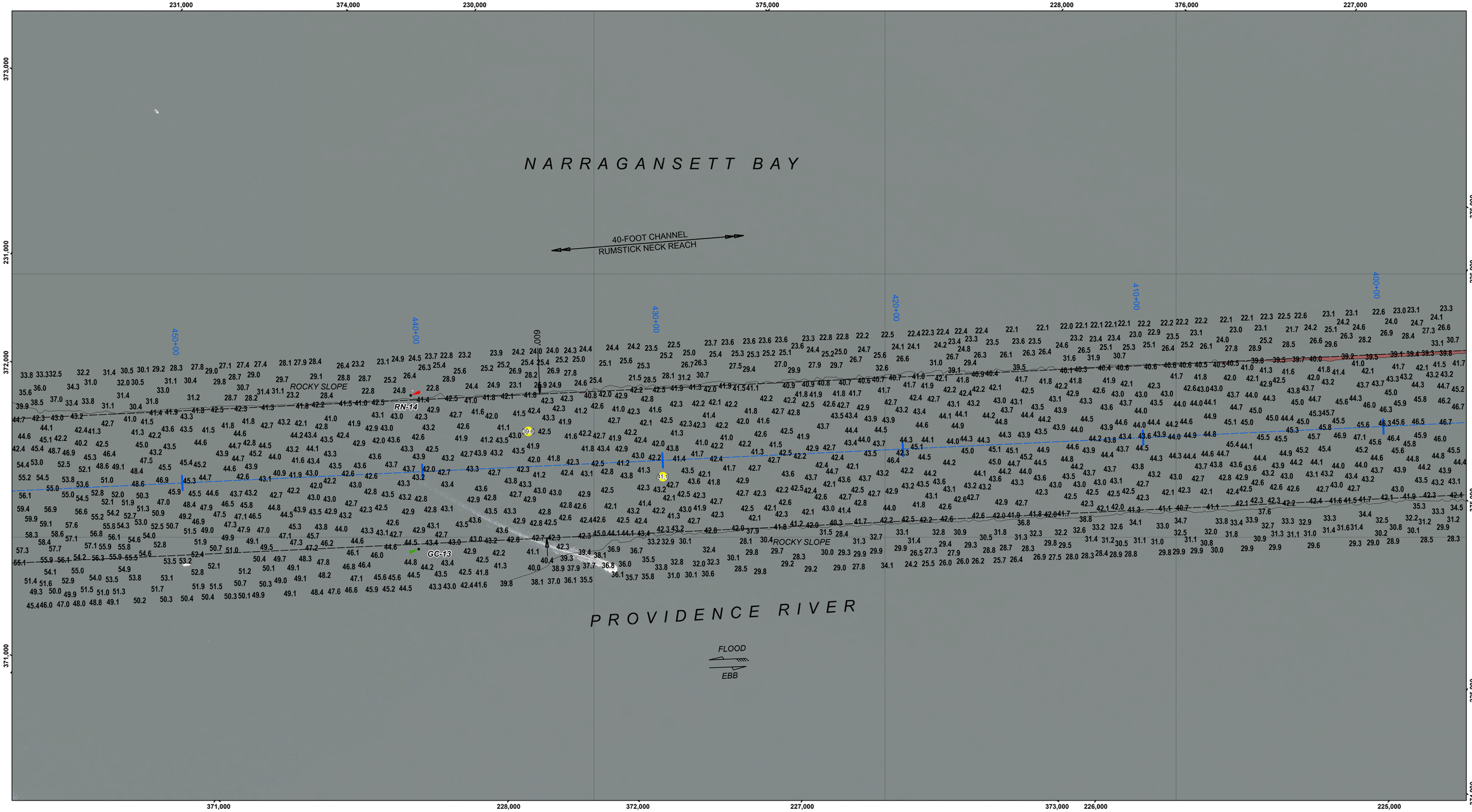
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

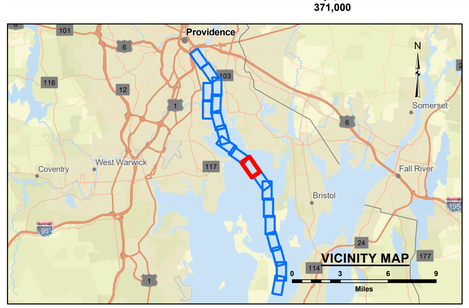
File Name: **RI_06_PRO_20260115_CS_003**

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 8 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200'

200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

Water Level Information
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District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

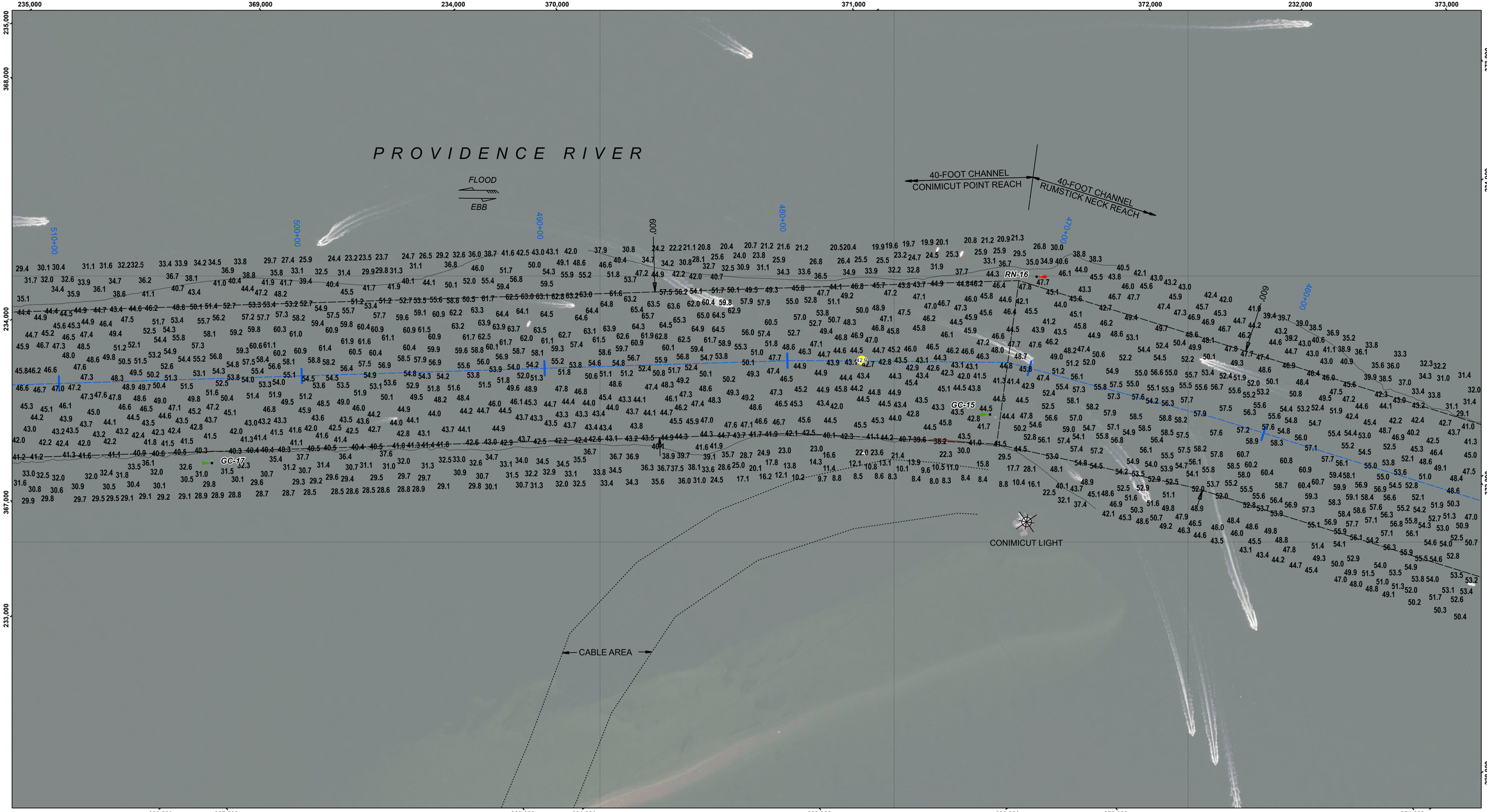
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

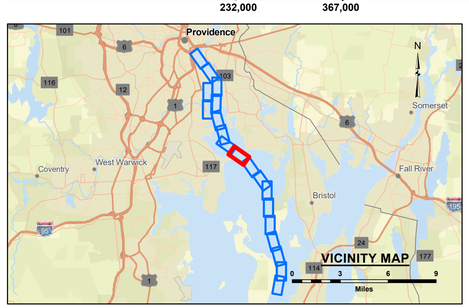
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**
**Sheet 9 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

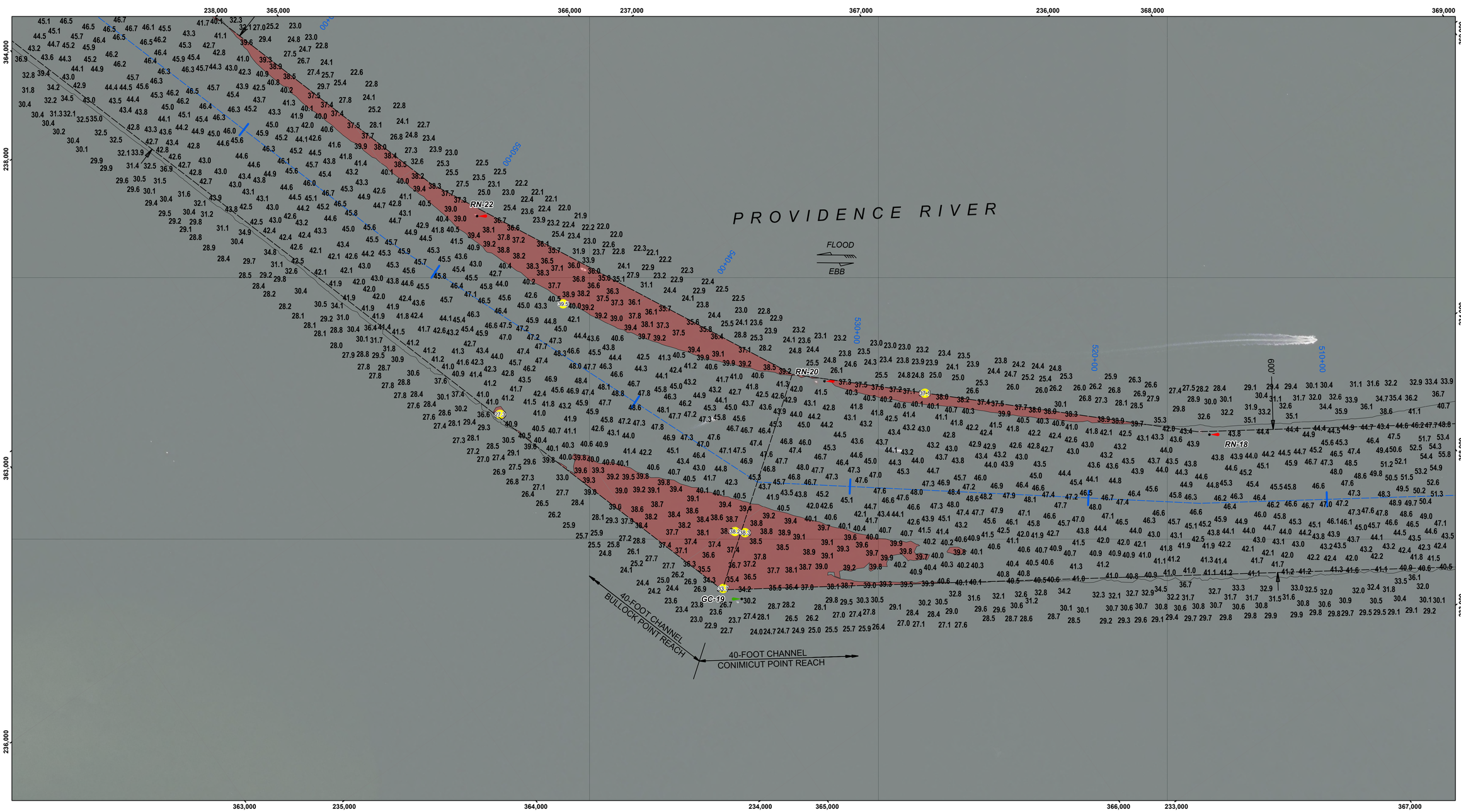
PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
CONDITION SURVEY
40-FOOT CHANNEL

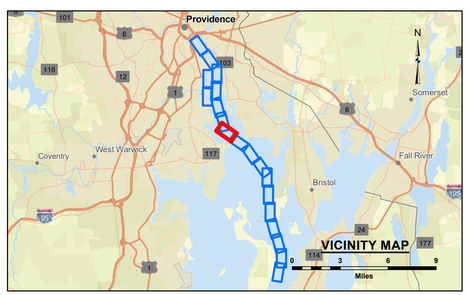
File Name: RI_06_PRO_20260115_CS_003

SHEET IDENTIFICATION
Providence River

Sheet 10 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
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- Shoalest Sounding**

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

GRAPHIC SCALE

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Notes:
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RTK Base Station: "Collier", "Kettle", "Sabin"
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Sounding Sort Distance: 50'
Field Books: R&H 4987
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US Army Corps of Engineers
District: CENAE

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/28/2026
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

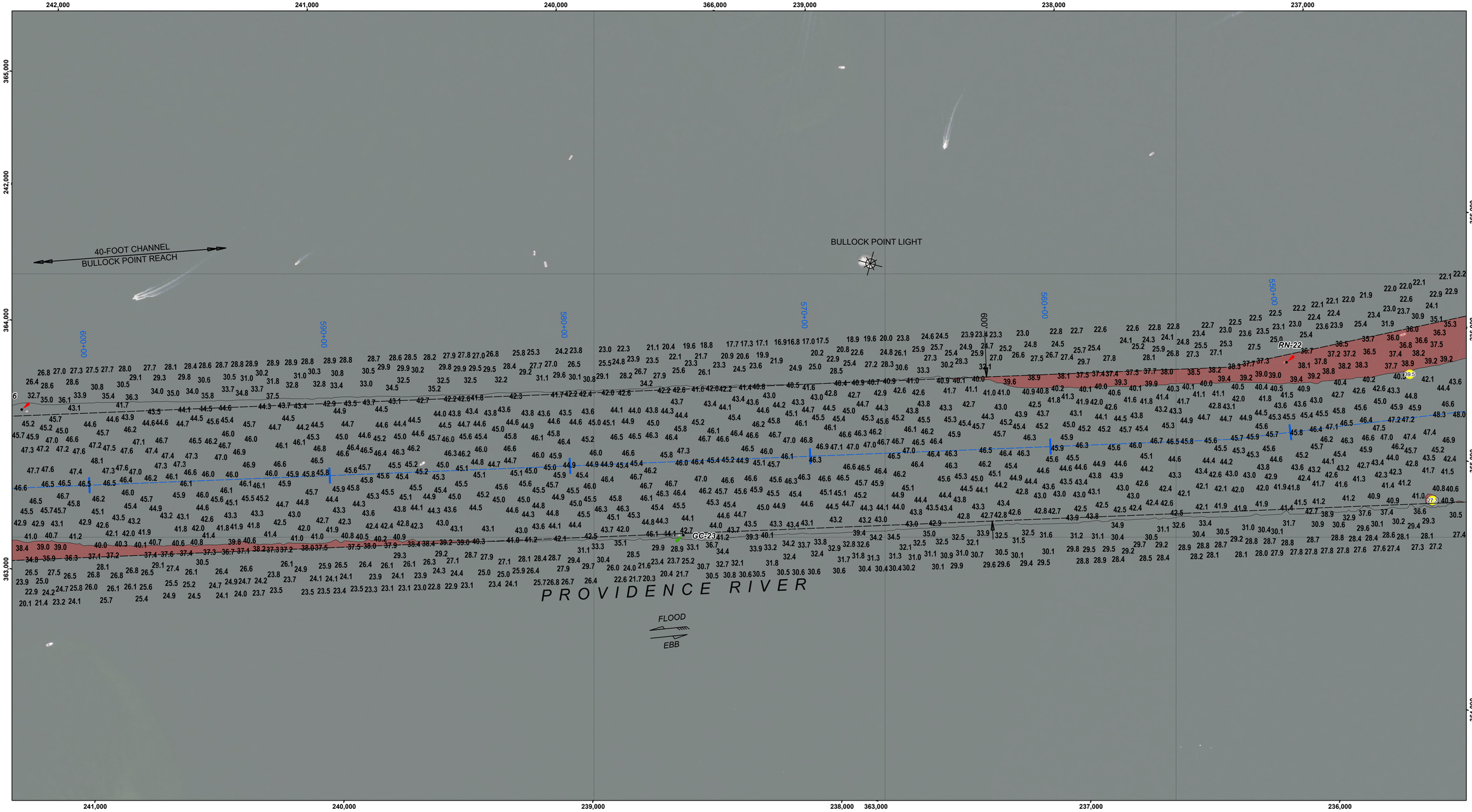
# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
# CONDITION SURVEY
## 40-FOOT CHANNEL

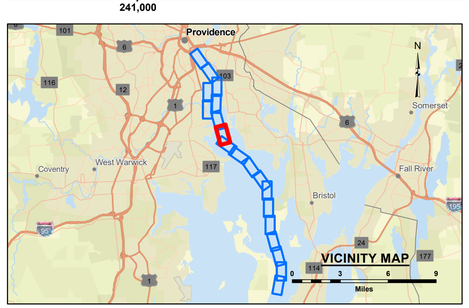
File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 11 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
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- Marine Infrastructure*
- Obstruction Point
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- Red Navigation Buoy
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** Shoalest Sounding per Quarter per Reach

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 NAD 83
Distance Units: U.S. Survey Feet
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Depth Units: U.S. Survey Feet
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Survey Method: RTK GPS TIDES
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RTK Base Station: "Collier", "Kettle", "Sabin"
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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/28/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_06_PRO_20260115_CS_003
SIZE: ANSI D

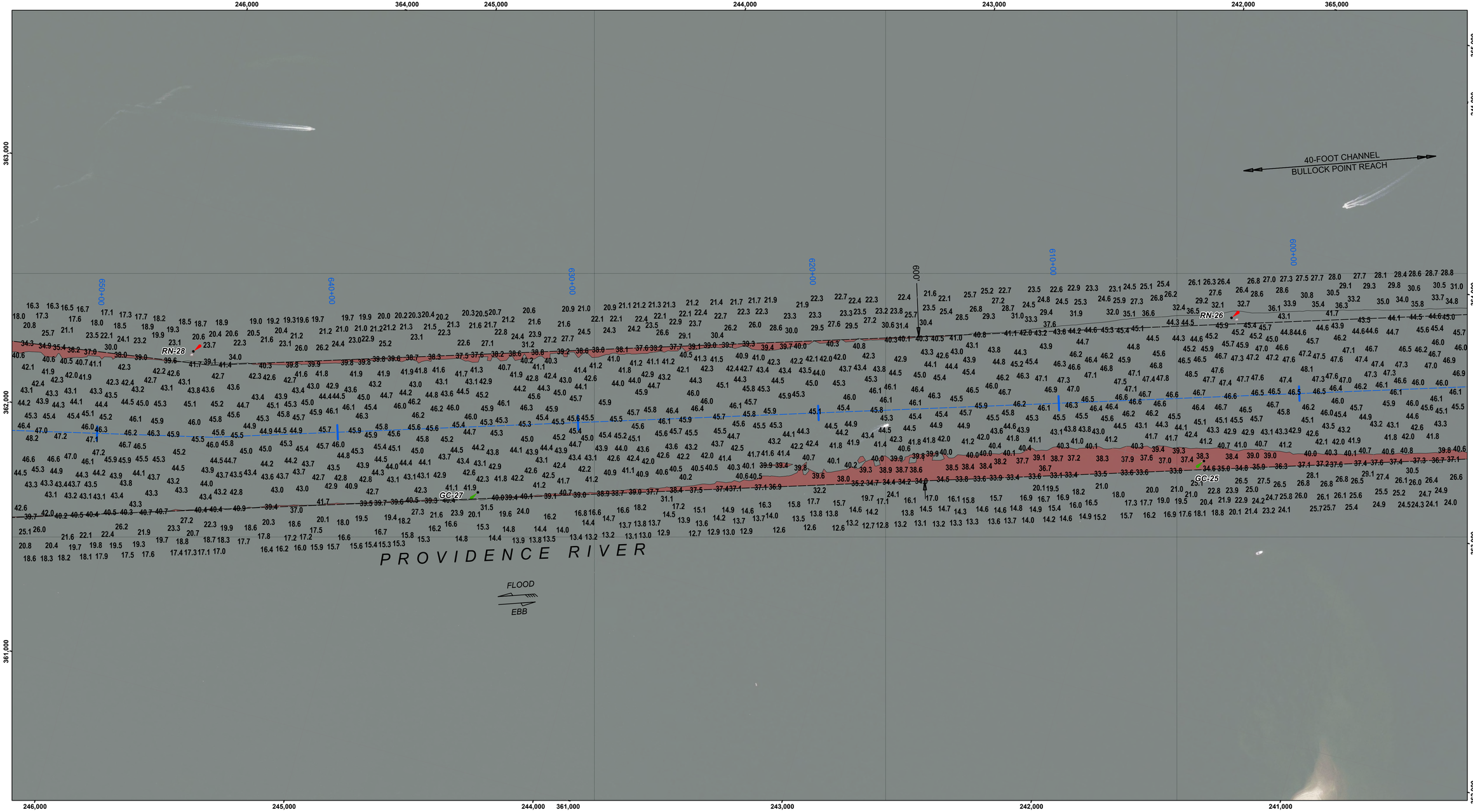
**PROVIDENCE RIVER AND HARBOR**
**PROVIDENCE, RHODE ISLAND**
**CONDITION SURVEY**
**40-FOOT CHANNEL**

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 12 of 19**

Revison Number: 5.24.09.03-5.24.09.03




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District: CENAE

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NEW ENGLAND DISTRICT

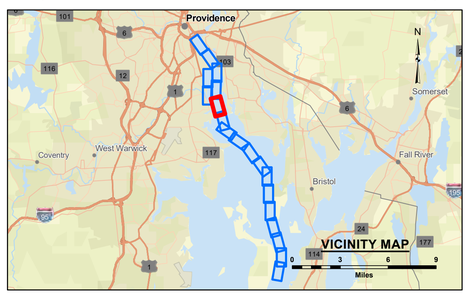
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
## CONDITION SURVEY
## 40-FOOT CHANNEL

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 13 of 19**




## LEGEND

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

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

GRAPHIC SCALE
200 0 200 400
1" = 200' Feet

N E S W

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

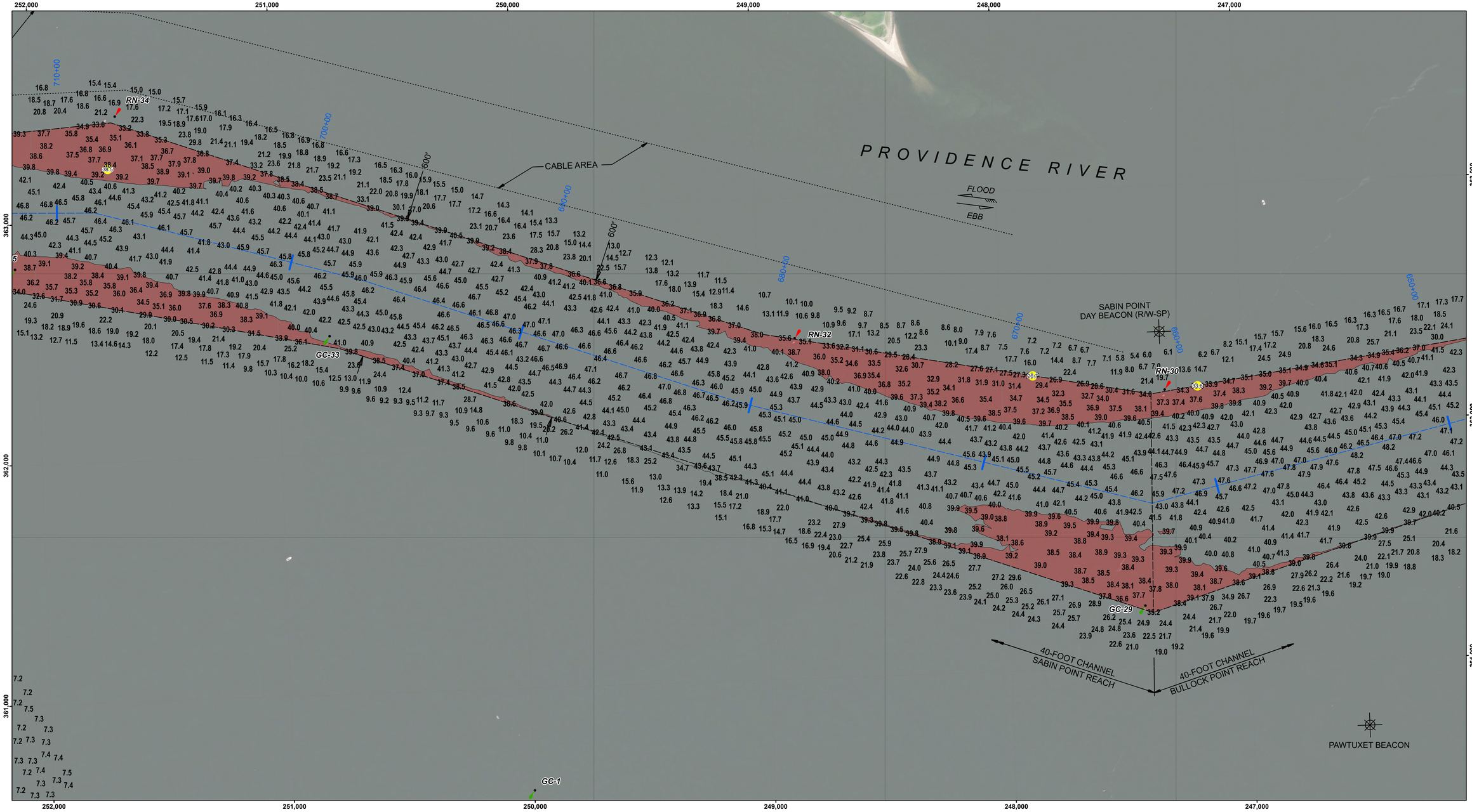
The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

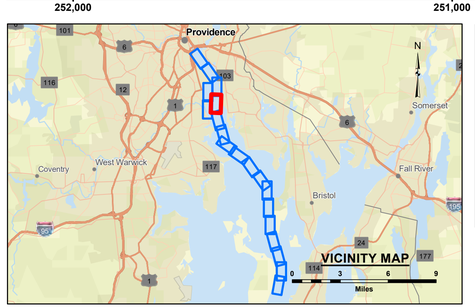
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Project Remarks
Marine infrastructure surveyed with Lidar.

Water Level Information
Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model NY/CT/RI Region Version 4.8. The corrections in the project area range from 2.17 feet to 2.48 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).

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200' 200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
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Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/28/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_06_PRO_20260115_CS_003
SIZE: ANSI D

# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
# CONDITION SURVEY
# 40-FOOT CHANNEL

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 14 of 19**

Revison Number: 5.24.09.03-5.24.09.03

CORPS OF ENGINEERS

U.S. ARMY

257,000 256,000 255,000 254,000 253,000 252,000

364,000 363,000 362,000 361,000

PROVIDENCE RIVER

FLOOD

EBB

40-FOOT CHANNEL
FULLER ROCK REACH

40-FOOT CHANNEL
SABIN POINT REACH

POPHAM
ROCKS
LIGHT

CABLE AREA

730+00 720+00 710+00 700+00 740+00 750+00 760+00

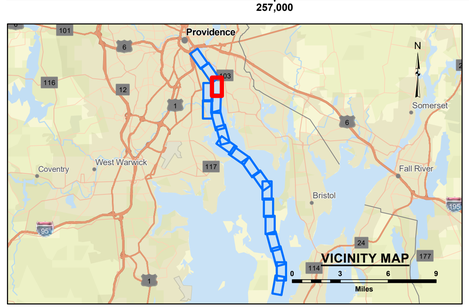
650'

RN-40

GC-35

GC-41

SABIN POINT




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/28/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_06_PRO_20260115_CS_003
SIZE: ANSI D

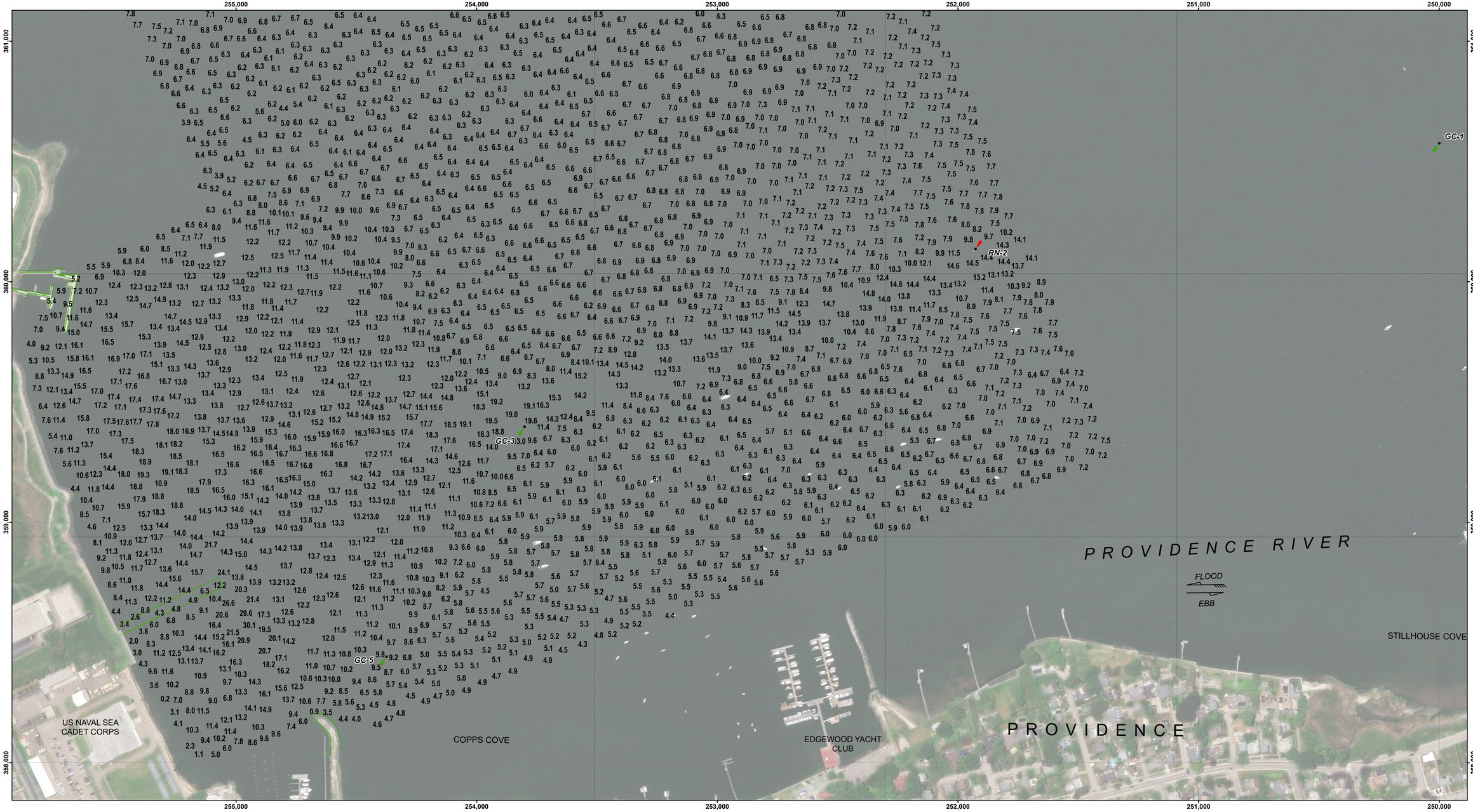
PROVIDENCE RIVER AND HARBOR
PROVIDENCE, RHODE ISLAND
CONDITION SURVEY
40-FOOT CHANNEL

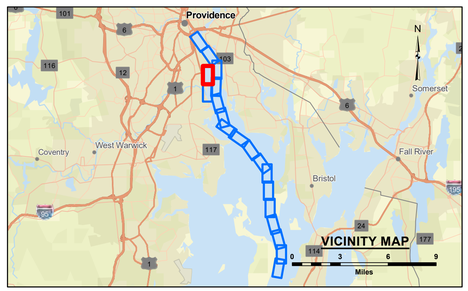
File Name: RI_06_PRO_20260115_CS_003

SHEET IDENTIFICATION
Providence River

Sheet 16 of 19

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

1" = 200' (200 0 200 400 Feet)

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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Project Remarks
Marine infrastructure surveyed with Lidar.

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: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

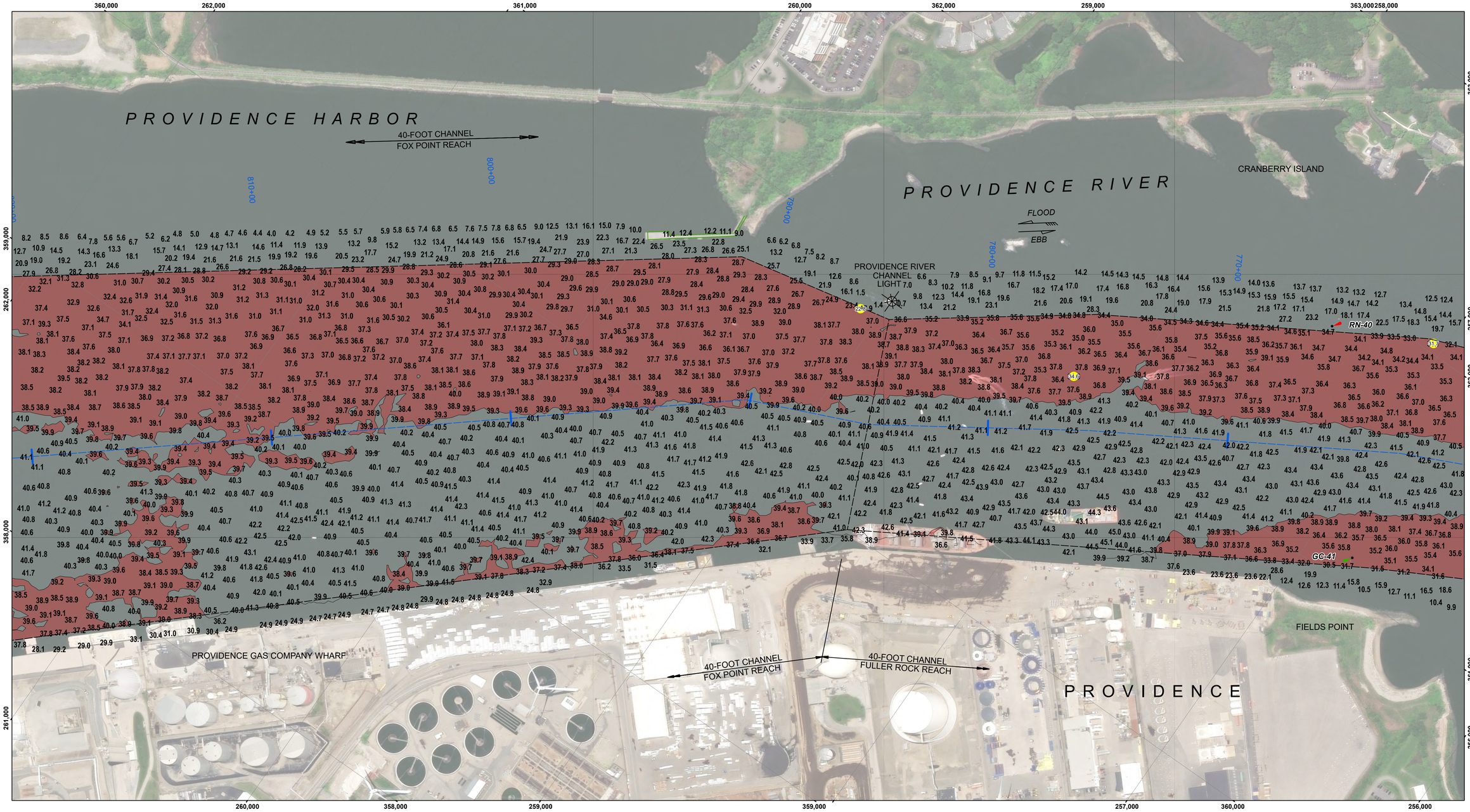
# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
# CONDITION SURVEY
# 40-FOOT CHANNEL

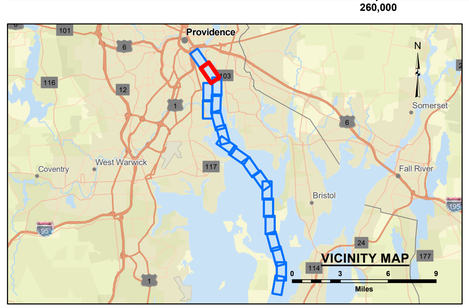
File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 17 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

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

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 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: "Collier", "Kettle", "Sabin"
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Field Books: R&H 4987
Survey No.: RI_06_PRO_20260115_CS_003
Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/29/2026
SUBMITTED BY: Joshua Bronberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: RI_06_PRO_20260115_CS_003

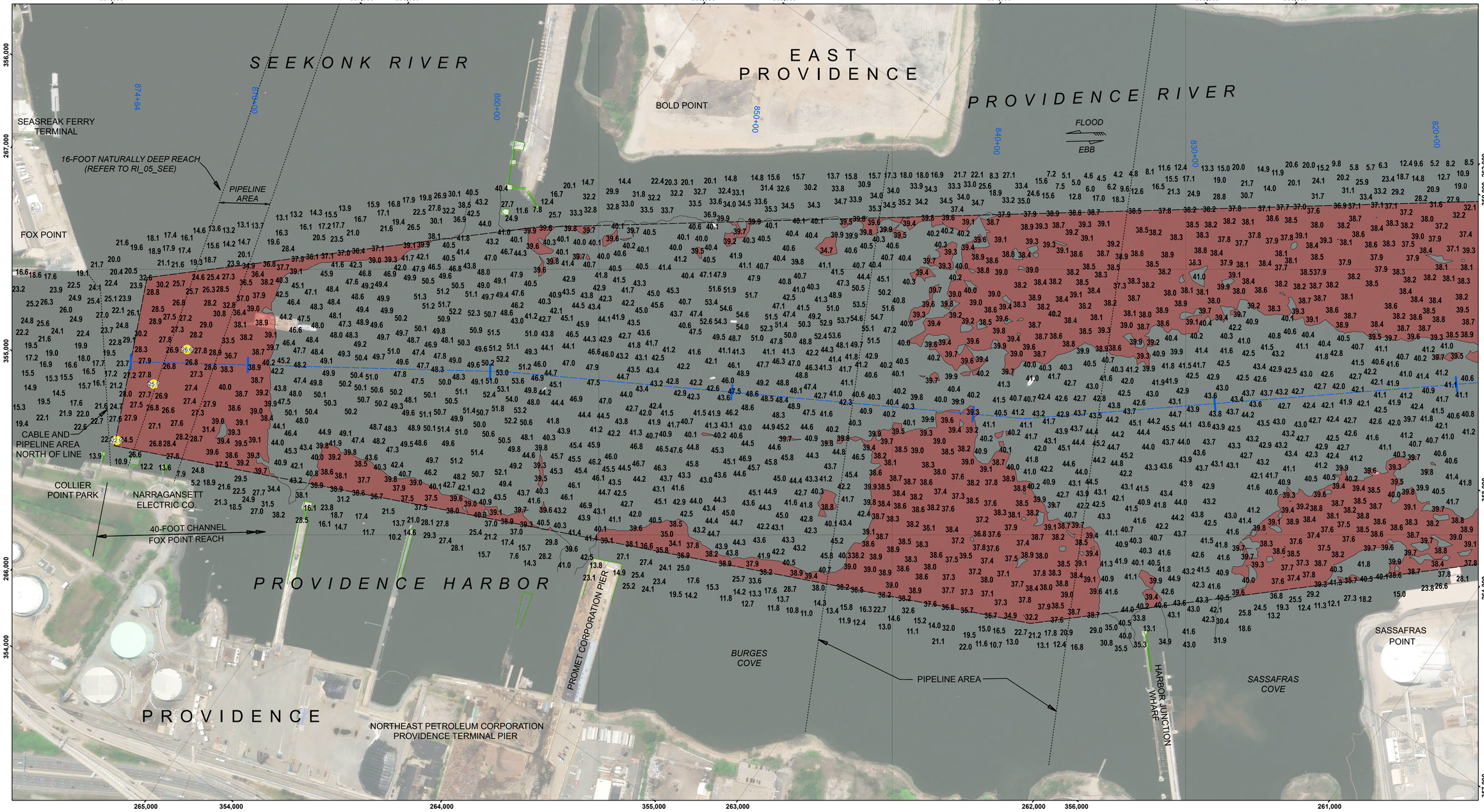
# PROVIDENCE RIVER AND HARBOR
# PROVIDENCE, RHODE ISLAND
# CONDITION SURVEY
## 40-FOOT CHANNEL

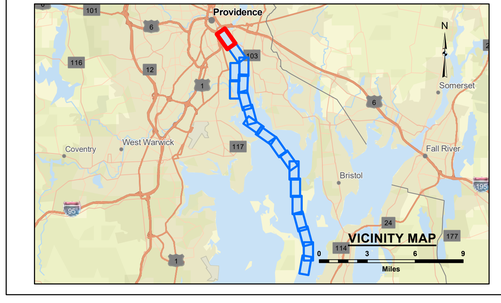
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**SHEET IDENTIFICATION**
**Providence River**

**Sheet 18 of 19**

Revison Number: 5.24.09.03-5.24.09.03




## LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
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- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
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- Yellow Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE

1" = 200'

200 0 200 400 Feet

Notes:
Horizontal Datum: Rhode Island, RI-3800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Keegan
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Sounding Frequency: 300-400 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: "Collier", "Kettle", "Sabin"
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Reference NOAA Chart No.: US5PVDHD,US5MA1HB,

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: NCD
CHECKED BY: ZSM
ISSUE DATE: 1/28/2026
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: RI_06_PRO_20260115_CS_003
SIZE: ANSI D

# PROVIDENCE RIVER AND HARBOR PROVIDENCE, RHODE ISLAND CONDITION SURVEY

## 40-FOOT CHANNEL

File Name: RI_06_PRO_20260115_CS_003

**SHEET IDENTIFICATION**
**Providence River**

**Sheet 19 of 19**

Revison Number: 5.24.09.03-5.24.09.03