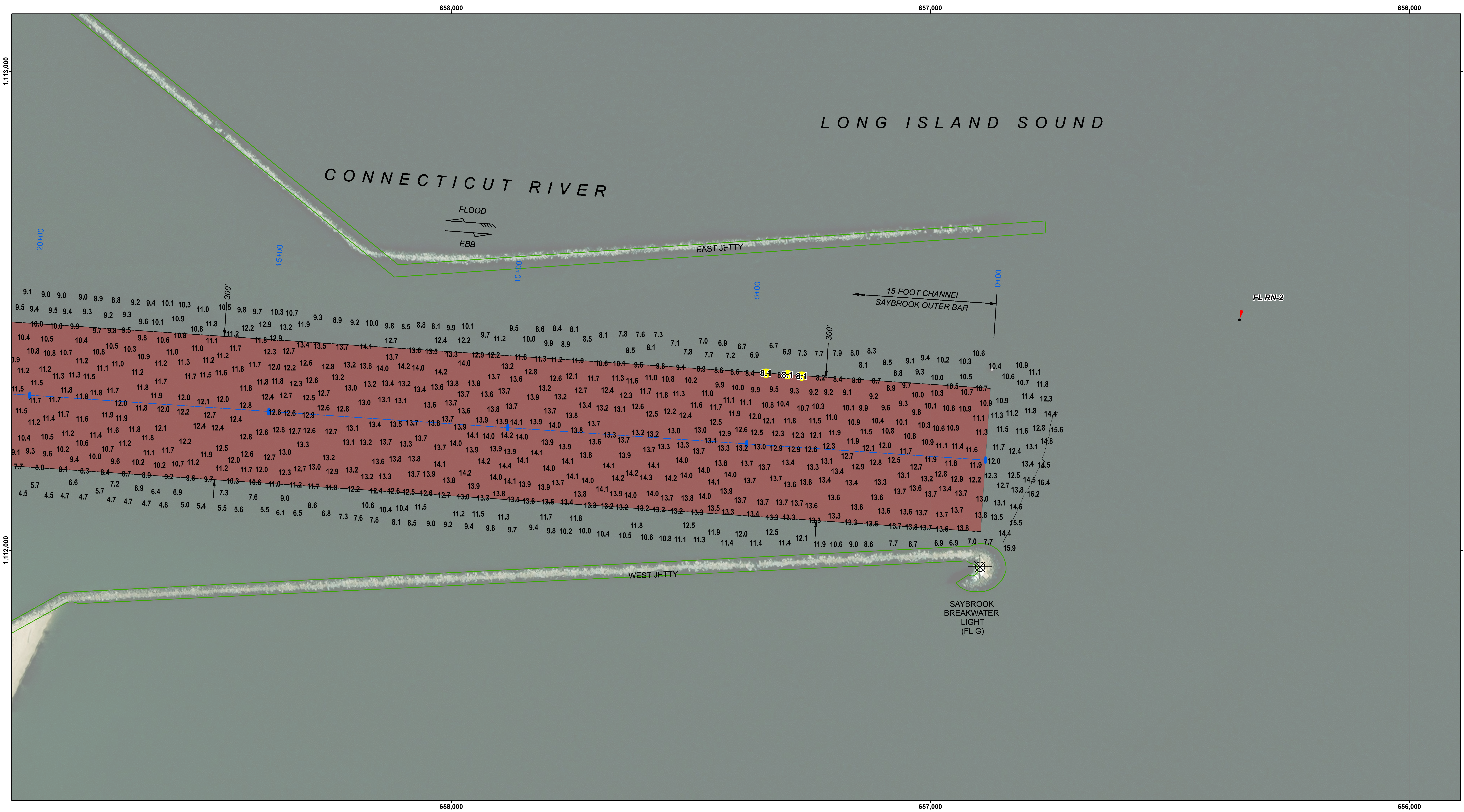
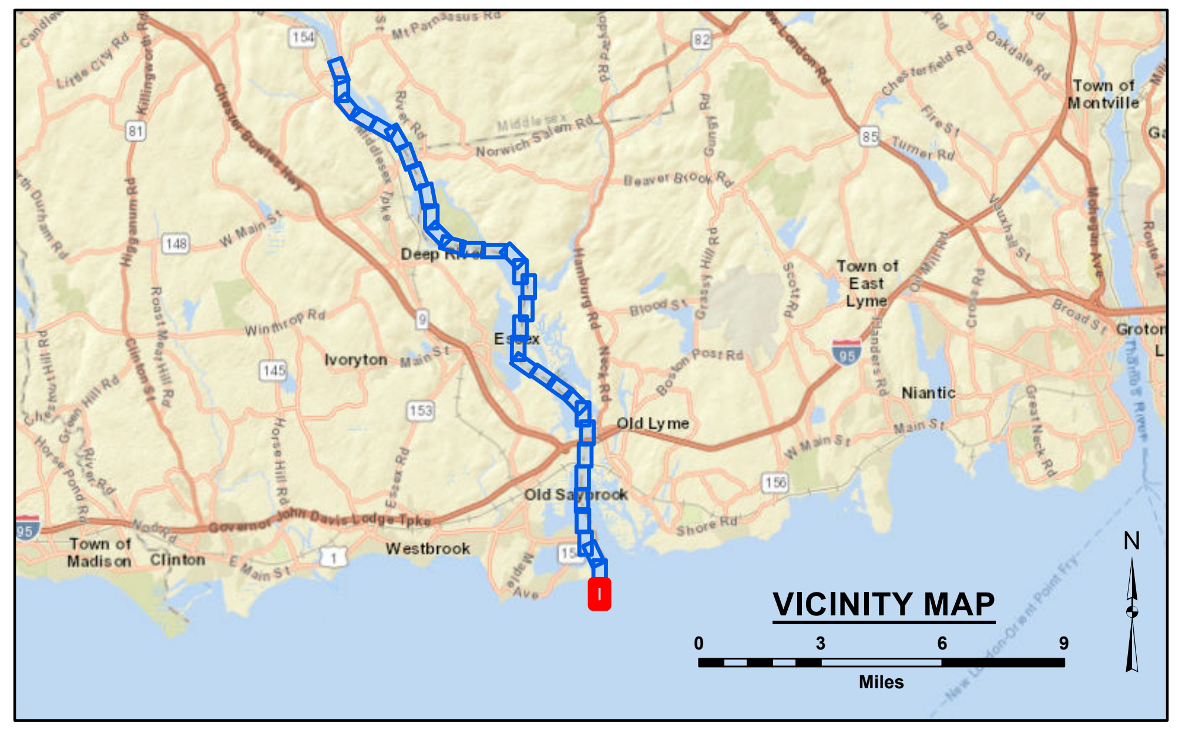




LEGEND

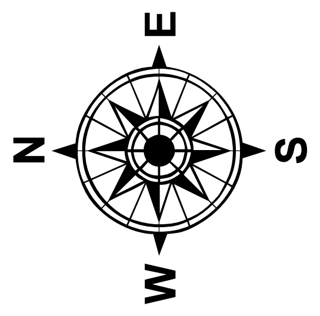
—·—	Federal Navigation Channel	✳	Fixed Navigation Aids
······	Cable or Pipeline area	⊠	Obstruction Point
—·—	Channel Center Line	!	Red Navigation Buoy
—	Marine Infrastructure*	!	Green Navigation Buoy
—	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

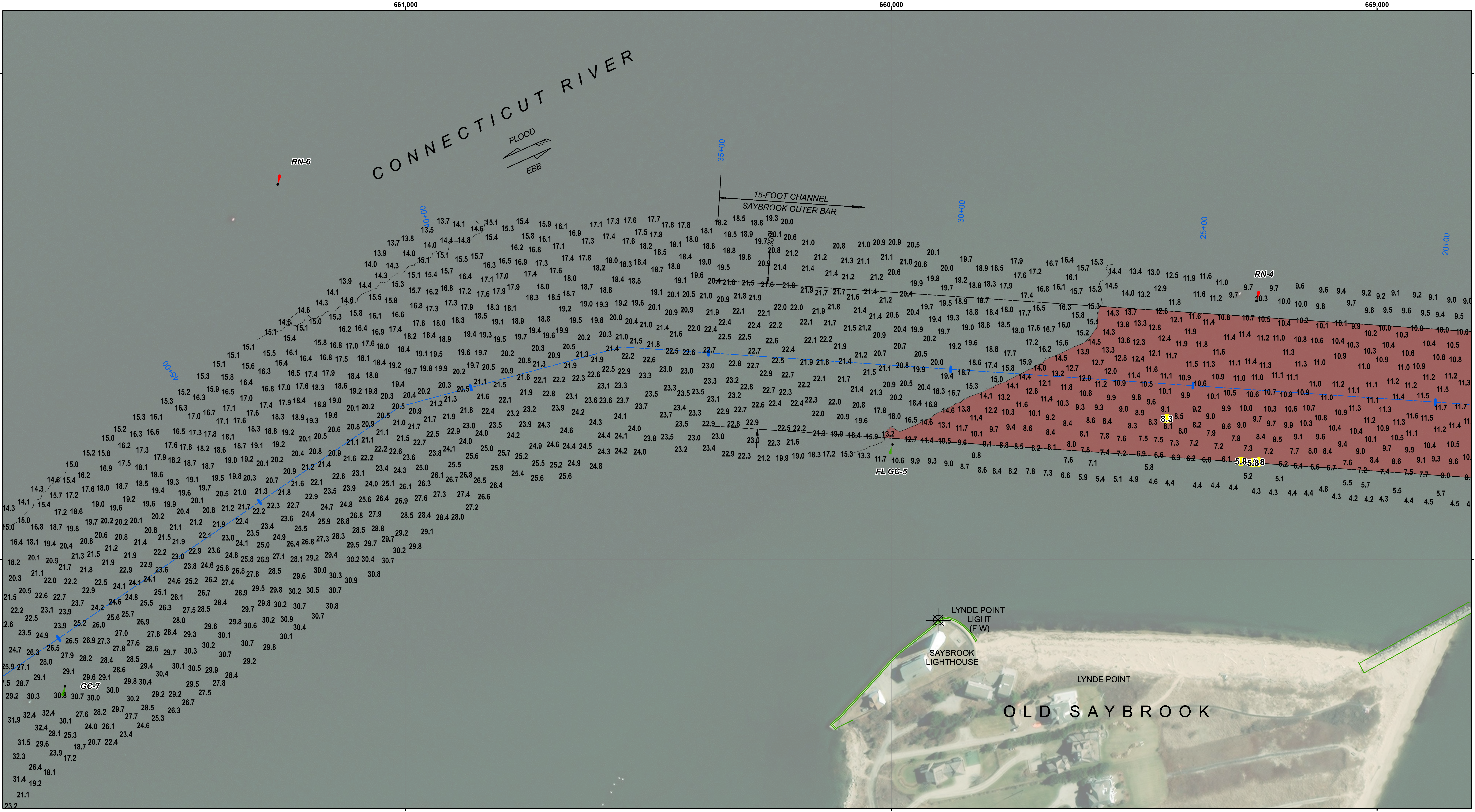
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
ISSUE DATE: 7/18/2025

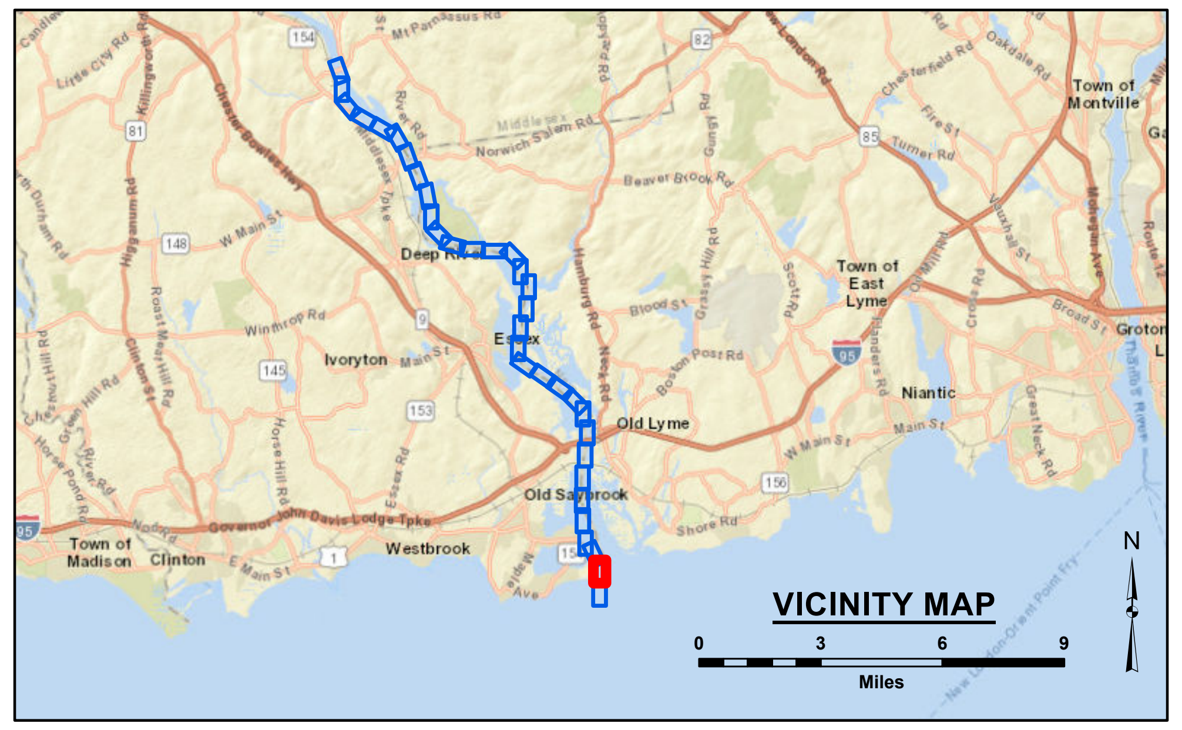
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 1 of 34

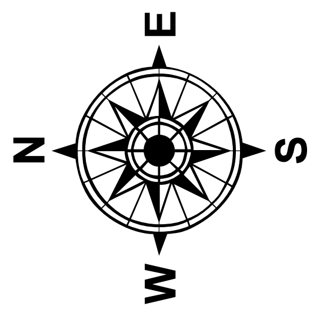




LEGEND

- — — Federal Navigation Channel
- ······· Cable or Pipeline area
- – – Channel Center Line
- —— Marine Infrastructure*
- —— Contour Line
- ✳ Fixed Navigation Aids
- ⊠ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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



GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

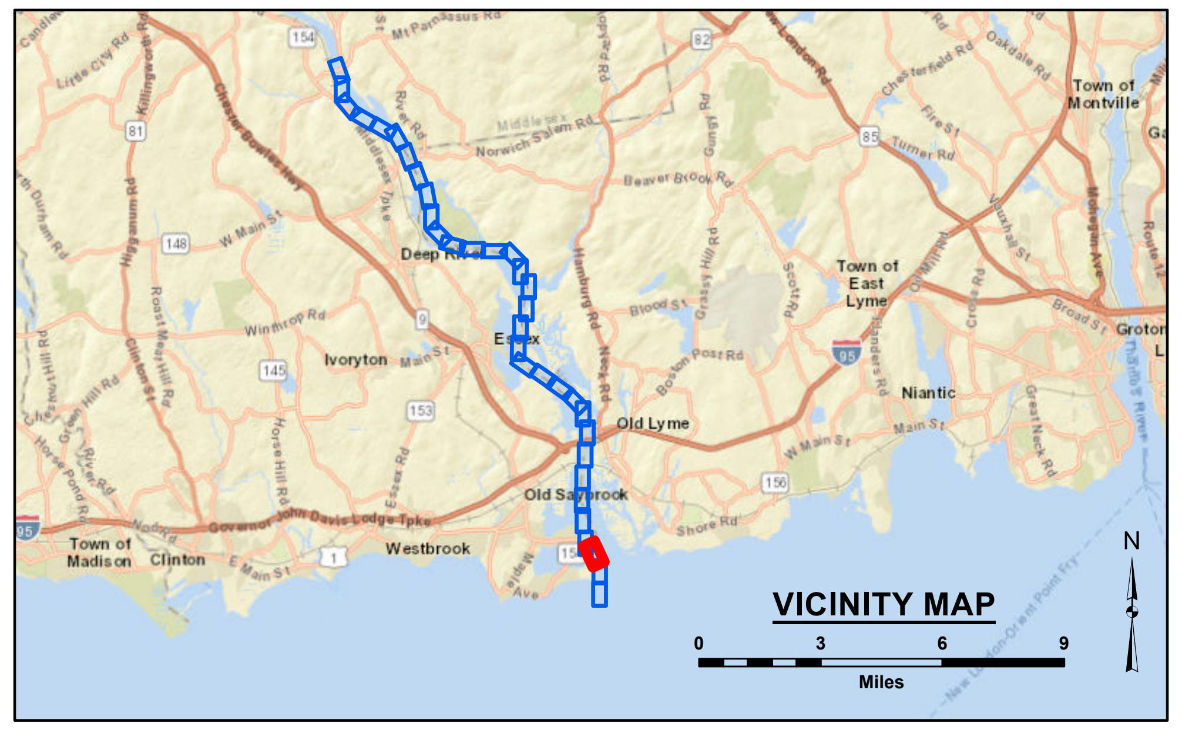
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET
IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 2 of 34

Revision Number: 5.24.09.03-5.24.09.03

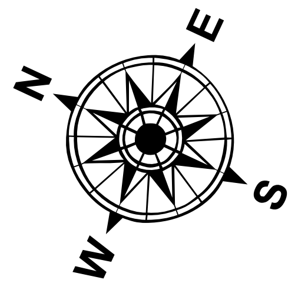


LEGEND

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

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks
Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

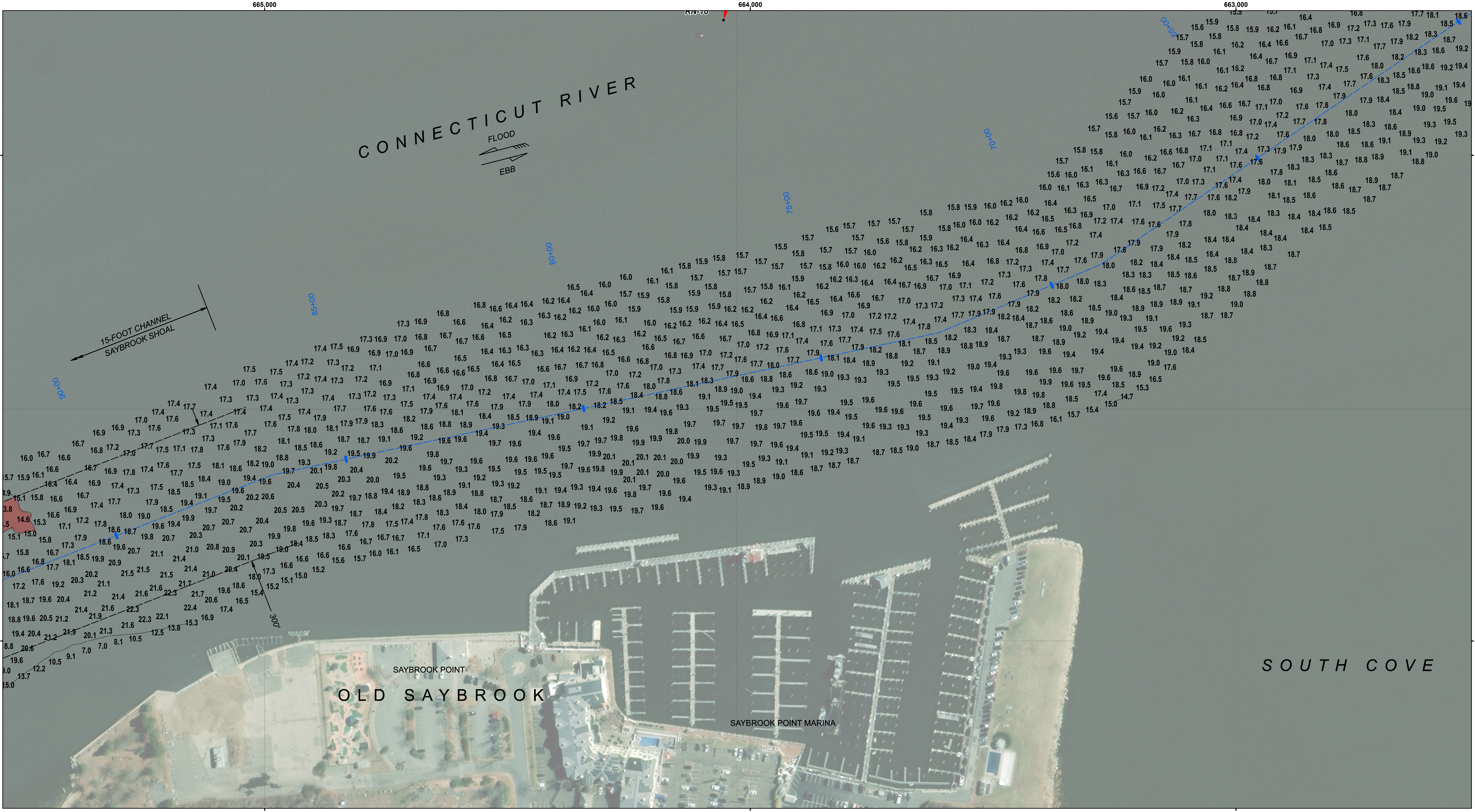
SUBMITTED BY: Joshua Bromberg	SURVEYED BY: AJO
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D MAP DOCUMENT: CT_06_CRB_20250702_CS_040	ISSUE DATE: 7/18/2025

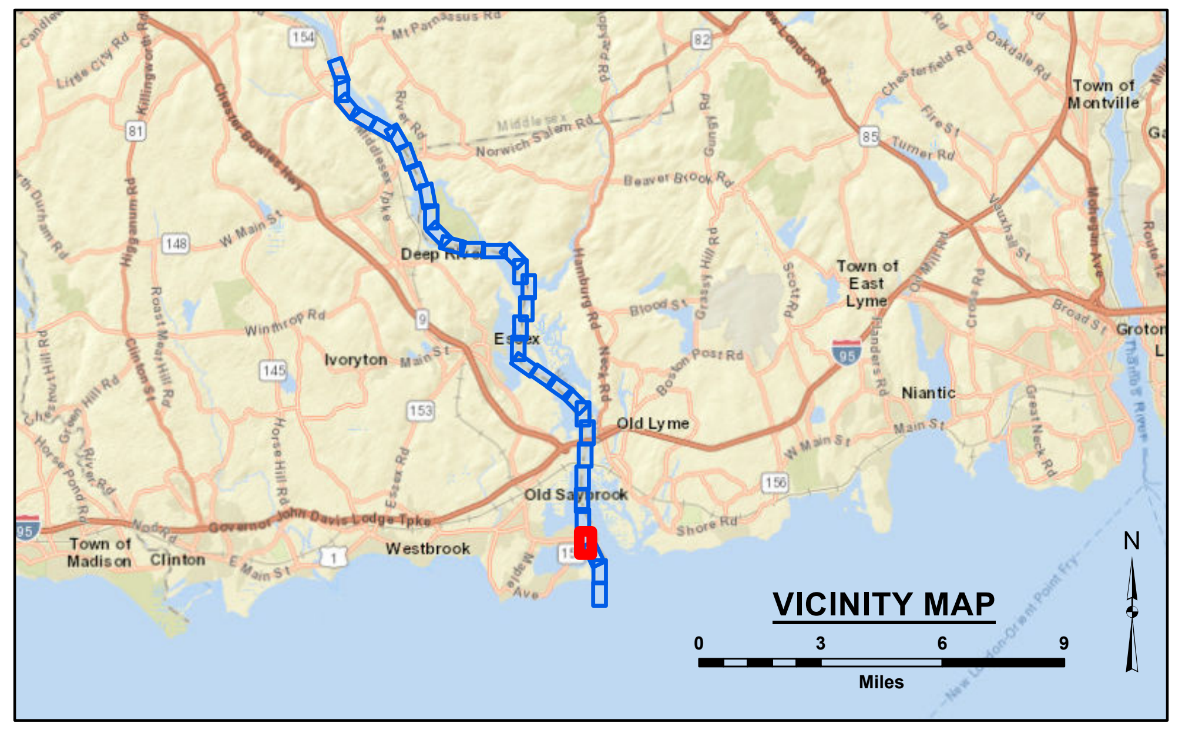
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 3 of 34





LEGEND

- --- Federal Navigation Channel
- ······ Cable or Pipeline area
- --- Channel Center Line
- — Marine Infrastructure*
- — Contour Line
- ✳ Fixed Navigation Aids
- ☒ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200 Feet

1" = 100'

N S E W

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
ISSUE DATE: 7/18/2025

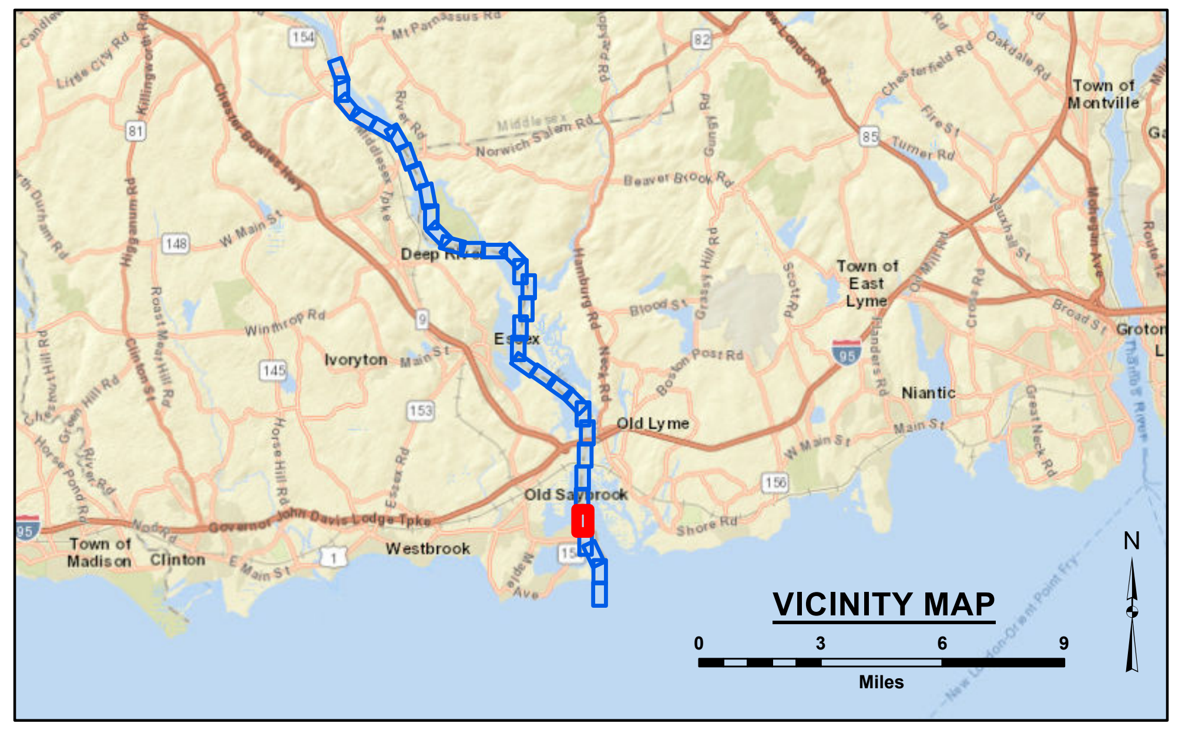
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 4 of 34

Revision Number: 5.24.09.03-5.24.09.03



VICINITY MAP

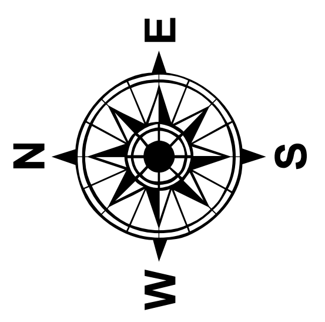
LEGEND

‐ ‒ ‐ Federal Navigation Channel	✳ Fixed Navigation Aids
······· Cable or Pipeline area	⊠ Obstruction Point
‐ ‒ ‐ Channel Center Line	! Red Navigation Buoy
—— Marine Infrastructure*	! Green Navigation Buoy
—— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200
1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 5 of 34

Revision Number: 5.24.09.03-5.24.09.03

US Army Corps of Engineers
District: CENAE

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ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
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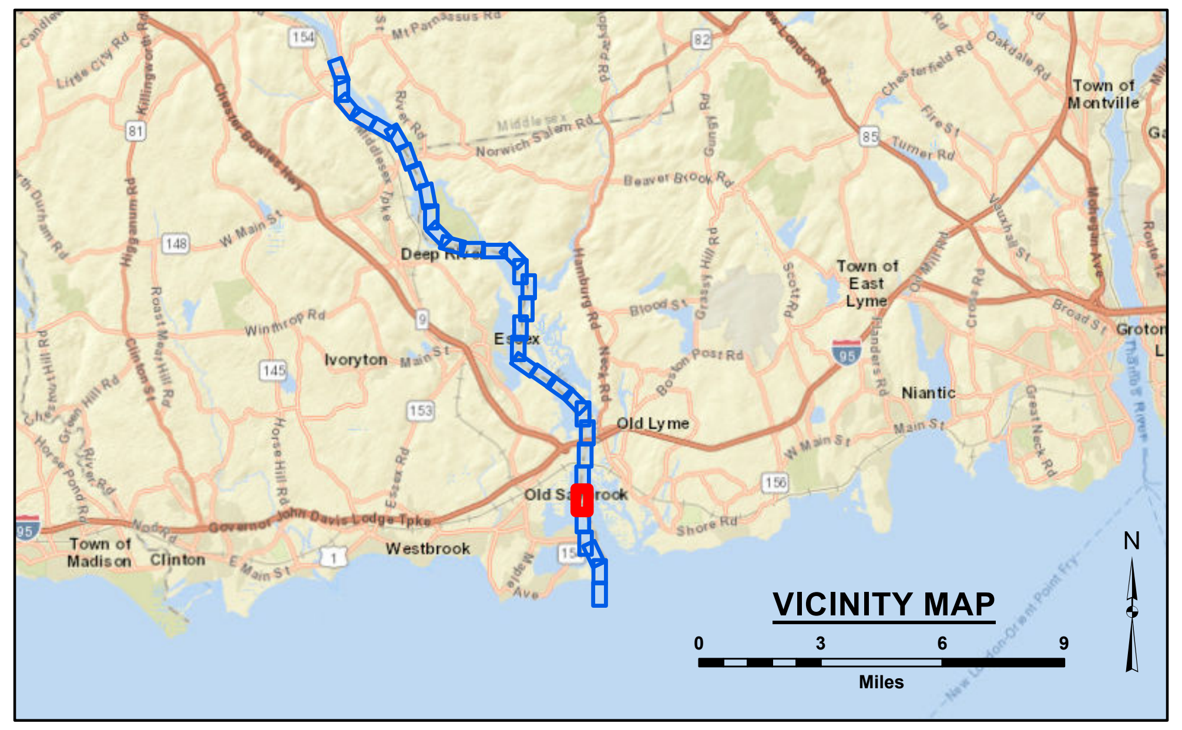
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 6 of 34

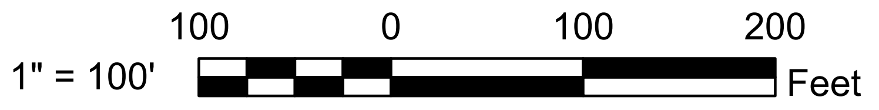


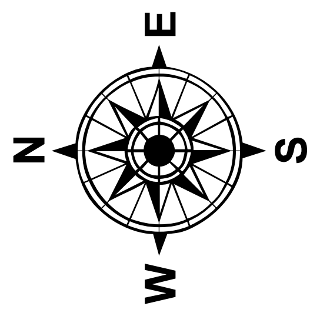
LEGEND

—·—	Federal Navigation Channel	✳	Fixed Navigation Aids
······	Cable or Pipeline area	☒	Obstruction Point
—·—	Channel Center Line	!	Red Navigation Buoy
—	Marine Infrastructure*	!	Green Navigation Buoy
—	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

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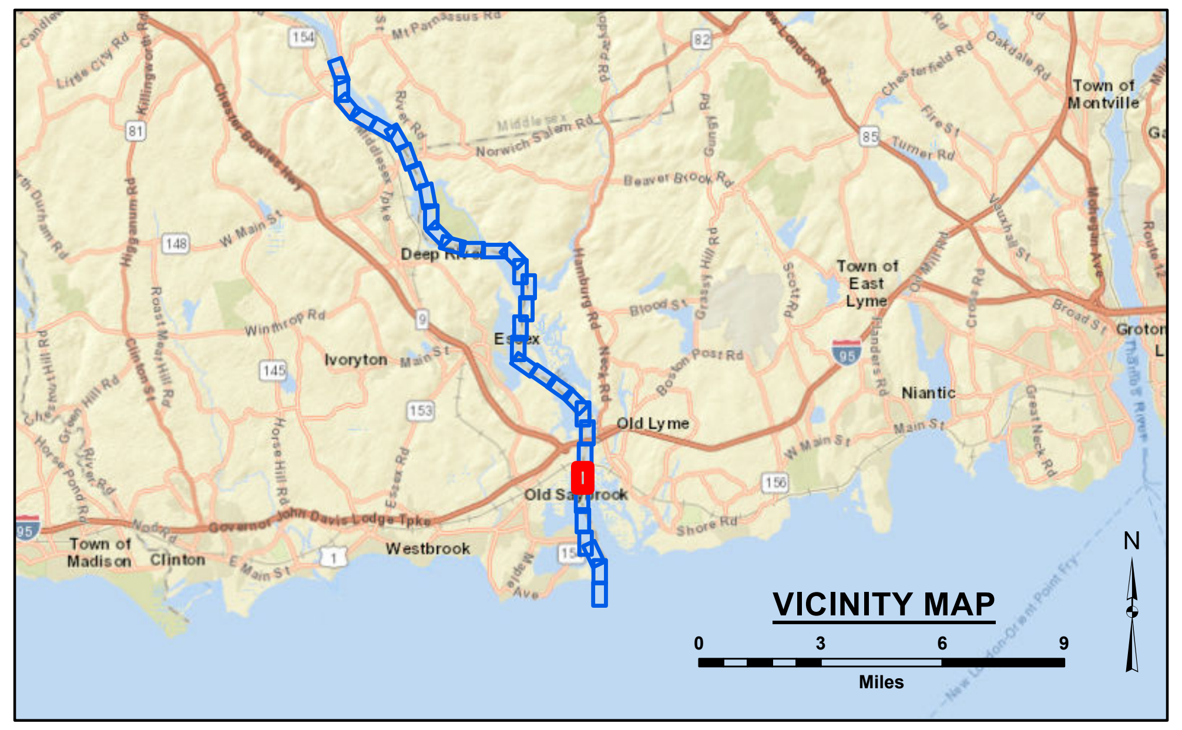
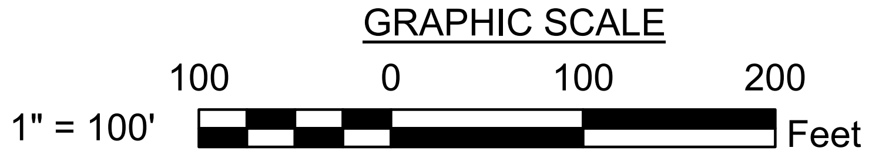
Revision Number: 5.24.09.03-5.24.09.03

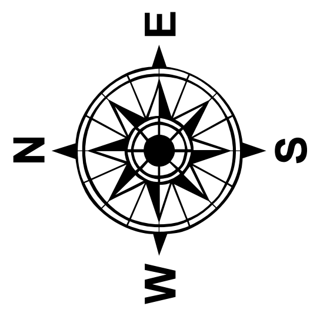


LEGEND

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

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

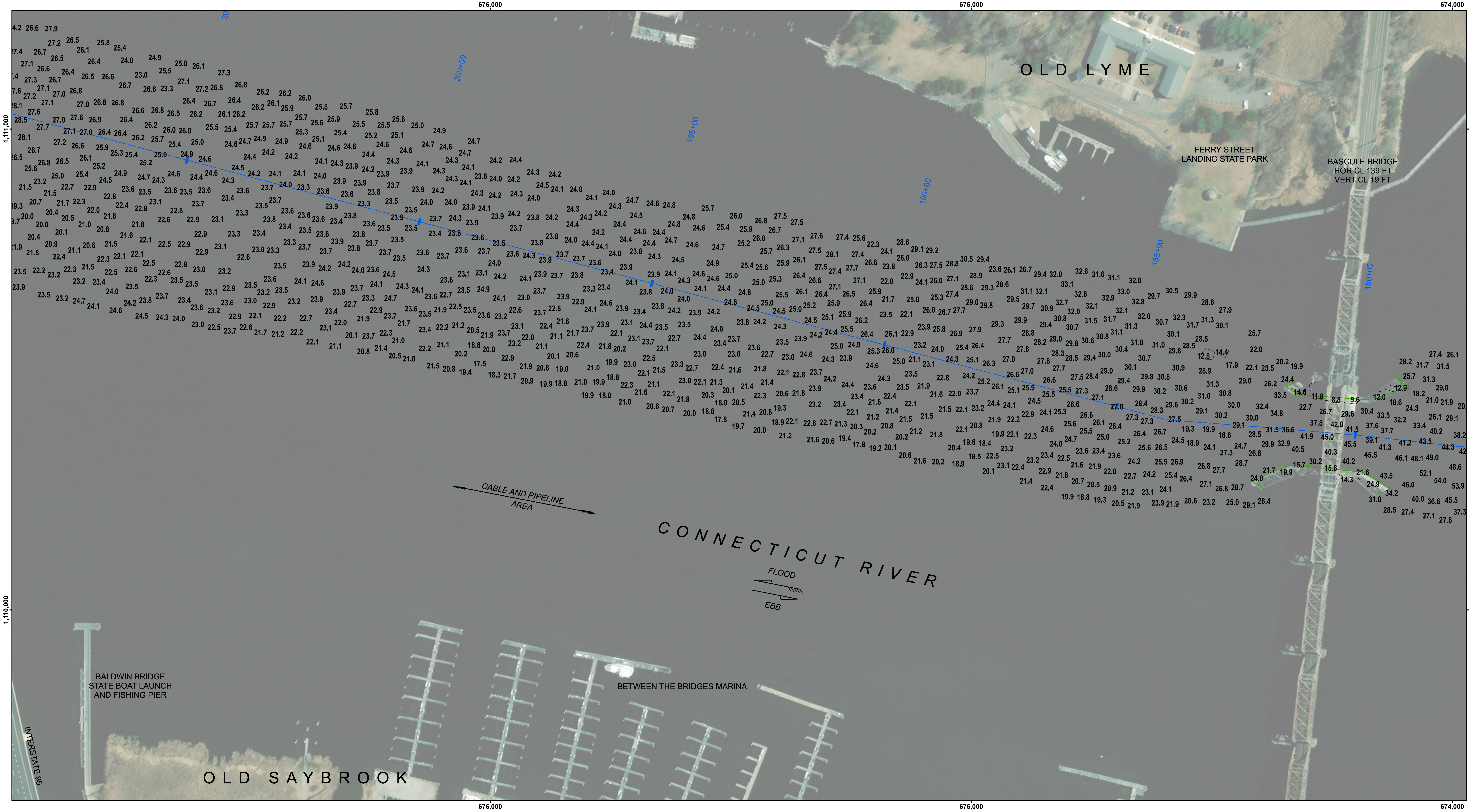
15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 7 of 34

Revision Number: 5.24.09.03-5.24.09.03



US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY:	AJO
CHECKED BY:	ZSM
ISSUE DATE:	7/18/2025
SUBMITTED BY:	Joshua Bromberg
APPROVED BY:	NAE Survey
SIZE:	ANSI D
MAP DOCUMENT:	CT_06_CRB_20250702_CS_040

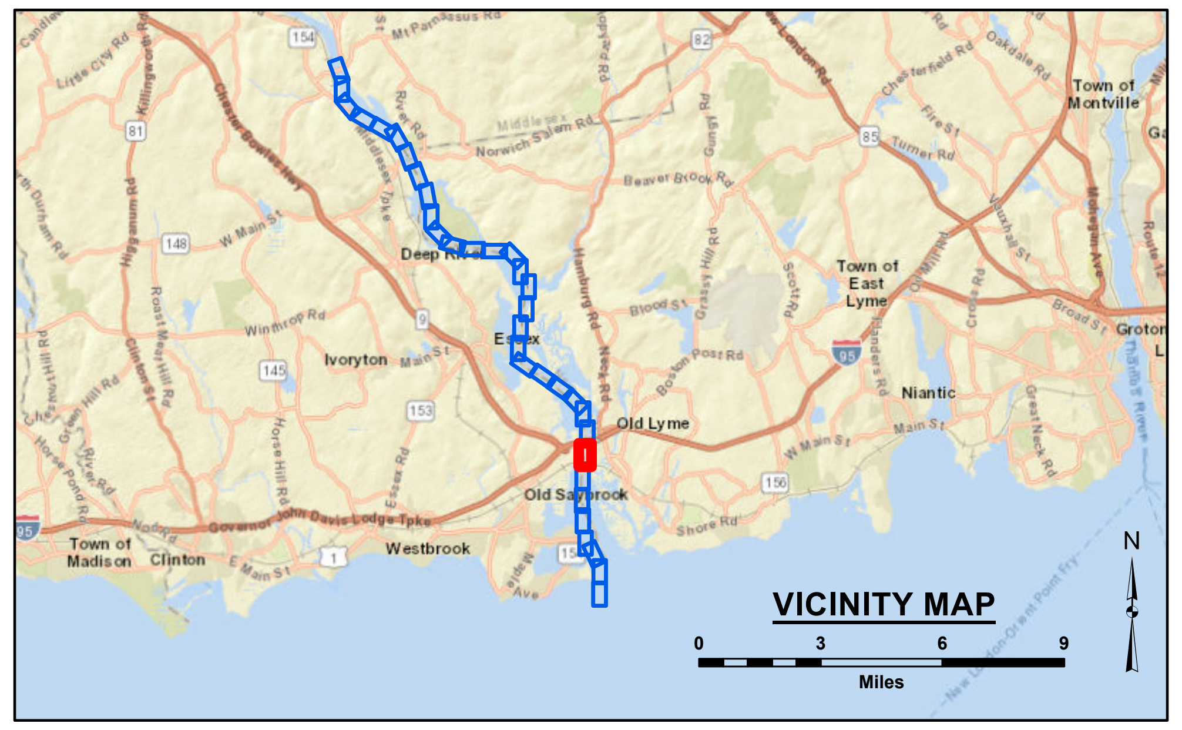
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

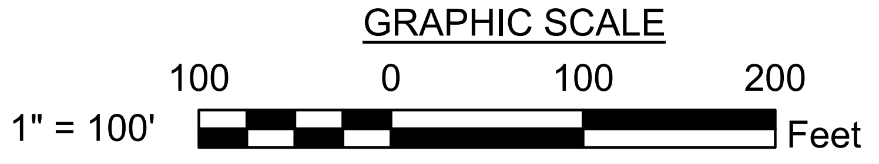
Sheet 8 of 34

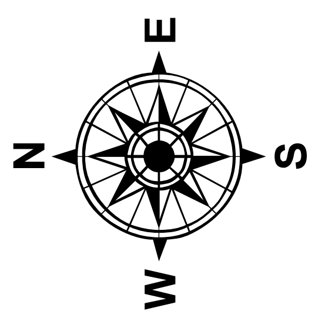


LEGEND

— — Federal Navigation Channel	✳ Fixed Navigation Aids
······· Cable or Pipeline area	⊠ Obstruction Point
— — Channel Center Line	! Red Navigation Buoy
—— Marine Infrastructure*	! Green Navigation Buoy
—— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks
Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information
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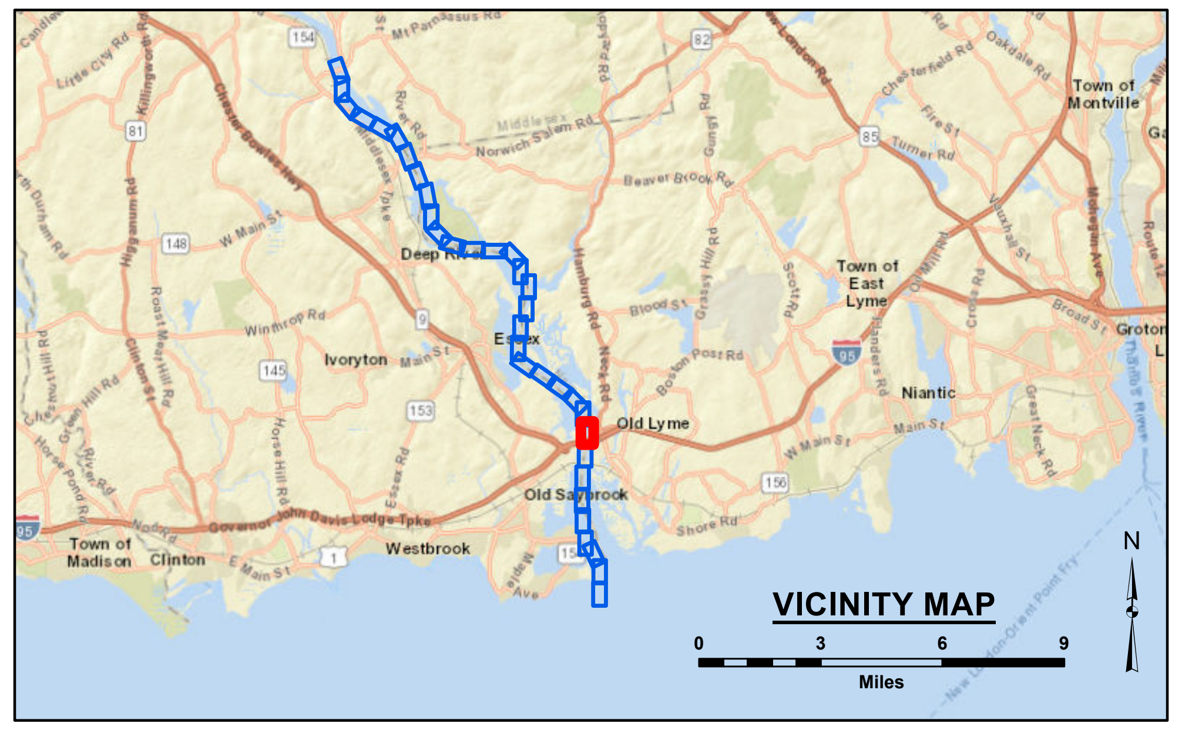
Revision Number: 5.24.09.03-5.24.09.03



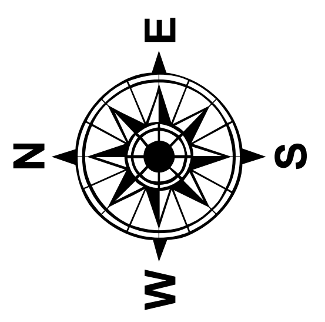
LEGEND

- - - Federal Navigation Channel
······ Cable or Pipeline area
- - - Channel Center Line
— Marine Infrastructure*
— Contour Line
✳ Fixed Navigation Aids
⊗ Obstruction Point
! Red Navigation Buoy
! Green Navigation Buoy
🟥 Shoaling Area
● Shoalest Sounding**

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

GRAPHIC SCALE

1" = 100'   100   0   100   200 Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
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Sounding Sort Distance: 30'
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Survey No.: CT_06_CRB_20250702_CS_040
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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: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

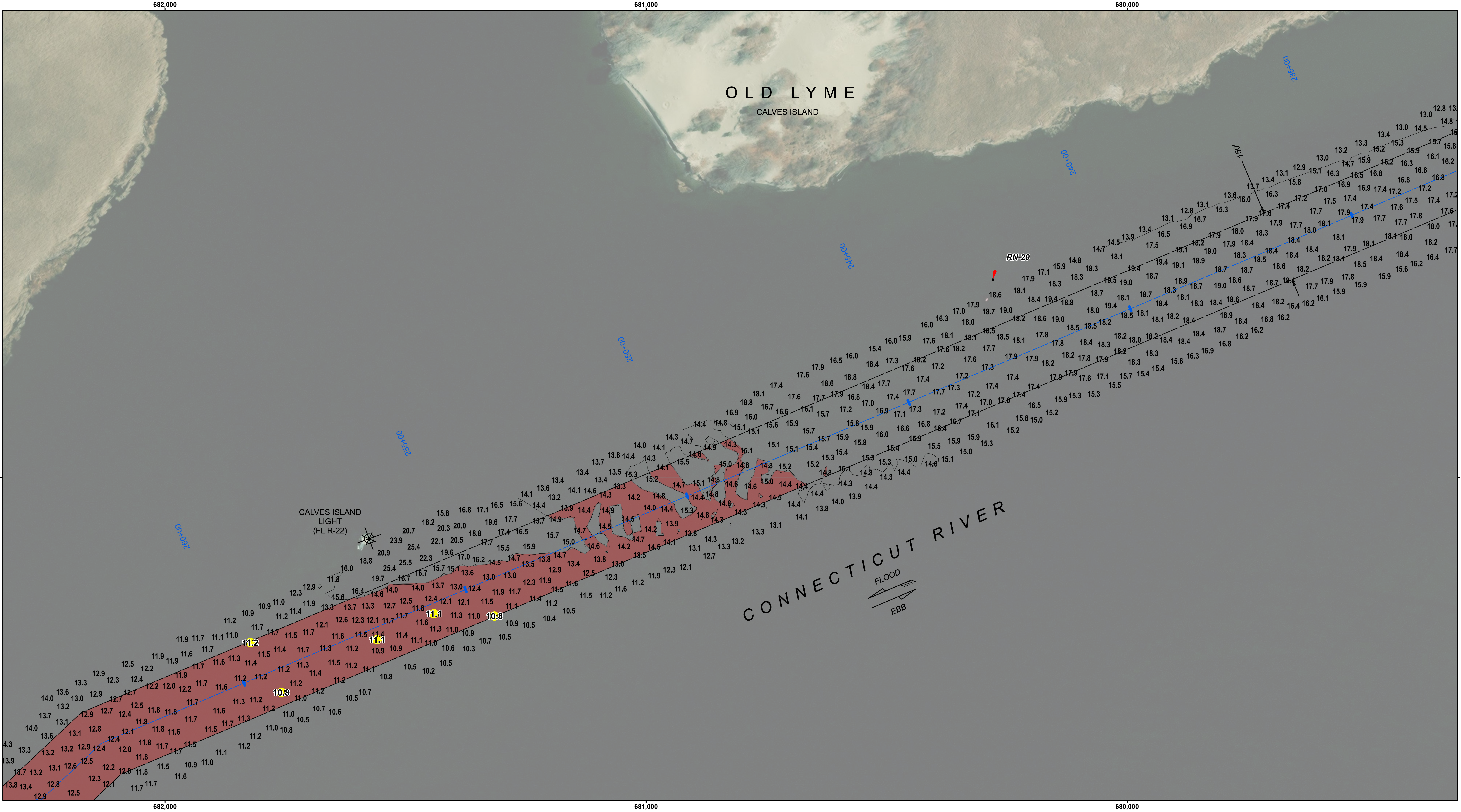
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River Saybrook to Haddam
Sheet 9 of 34

Revision Number: 5.24.09.03-5.24.09.03



US Army Corps of Engineers
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U.S. ARMY CORPS OF ENGINEERS
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SUBMITTED BY: Joshua Bromberg
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SURVEYED BY: AJO
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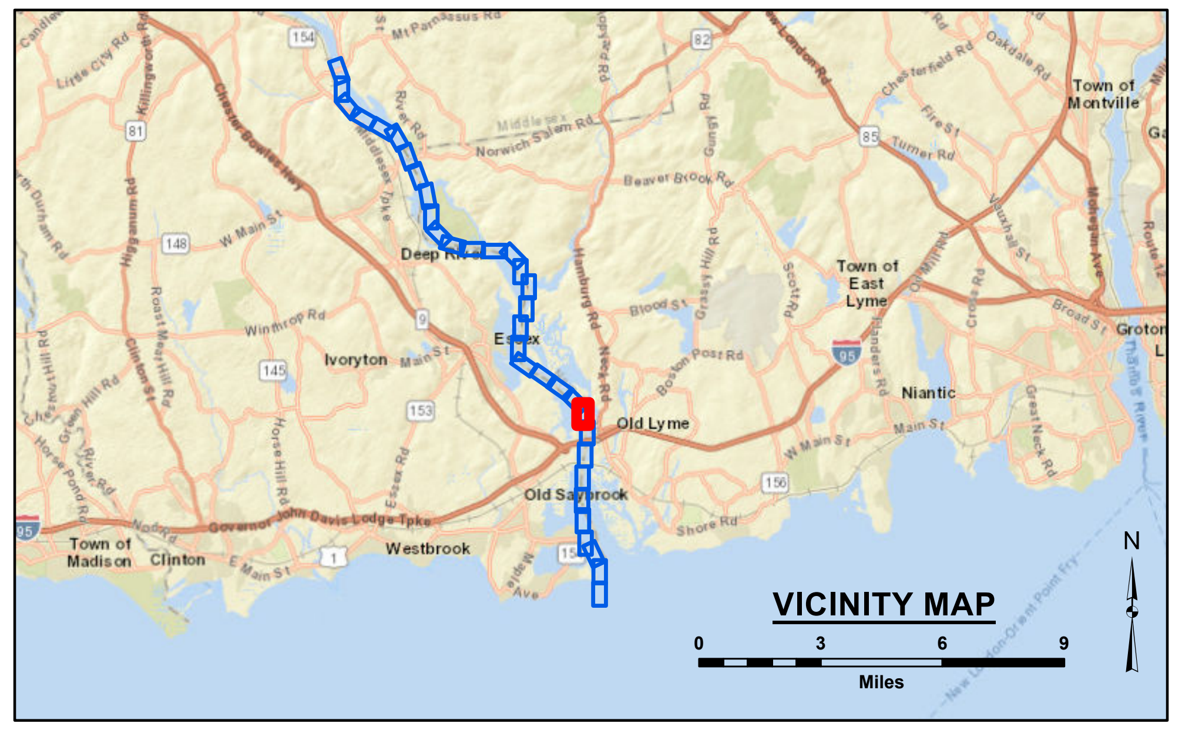
ISSUE DATE: 7/18/2025
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 10 of 34

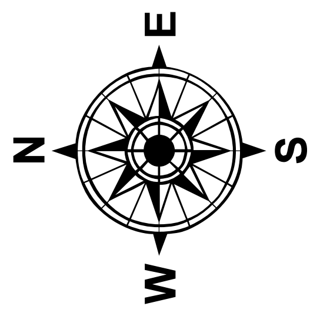


LEGEND

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

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Marine infrastructure surveyed with Lidar 9/11/2023.

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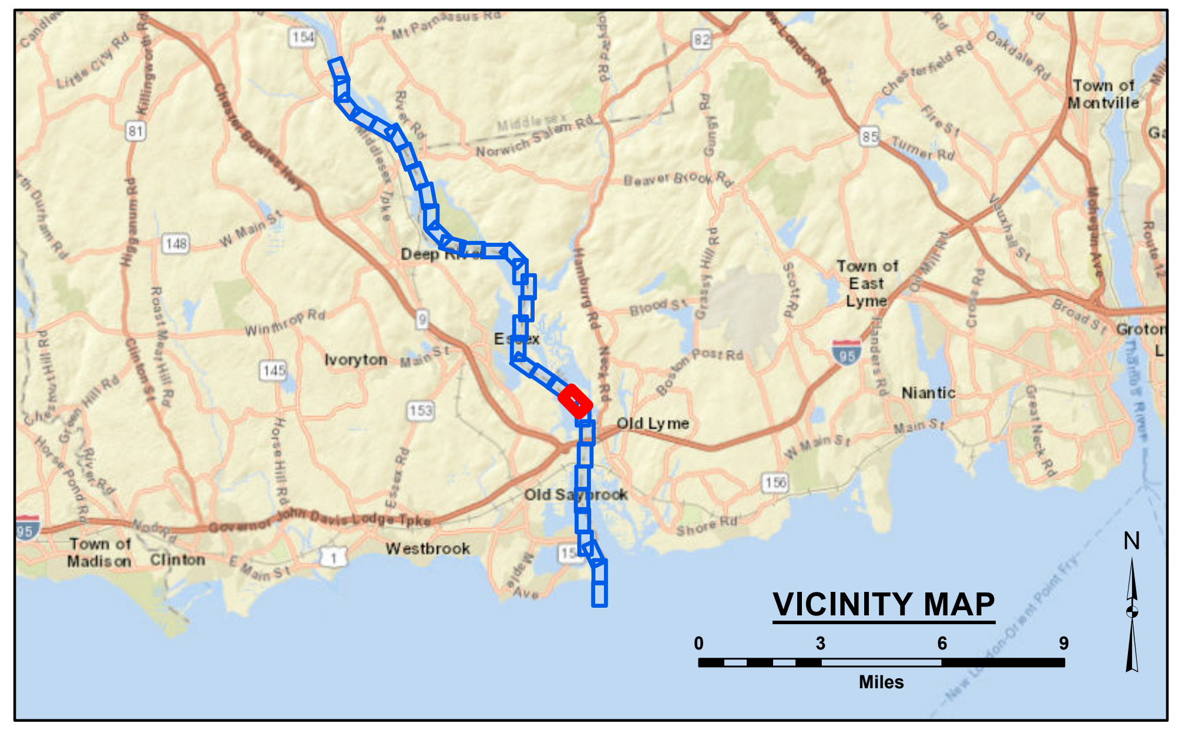
Revision Number: 5.24.09.03-5.24.09.03



LEGEND

---- Federal Navigation Channel	✳ Fixed Navigation Aids
······ Cable or Pipeline area	☒ Obstruction Point
- - - Channel Center Line	! Red Navigation Buoy
— Marine Infrastructure*	! Green Navigation Buoy
— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet

N E S W

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
ISSUE DATE: 7/18/2025

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 11 of 34

US Army Corps of Engineers
District: CENAE

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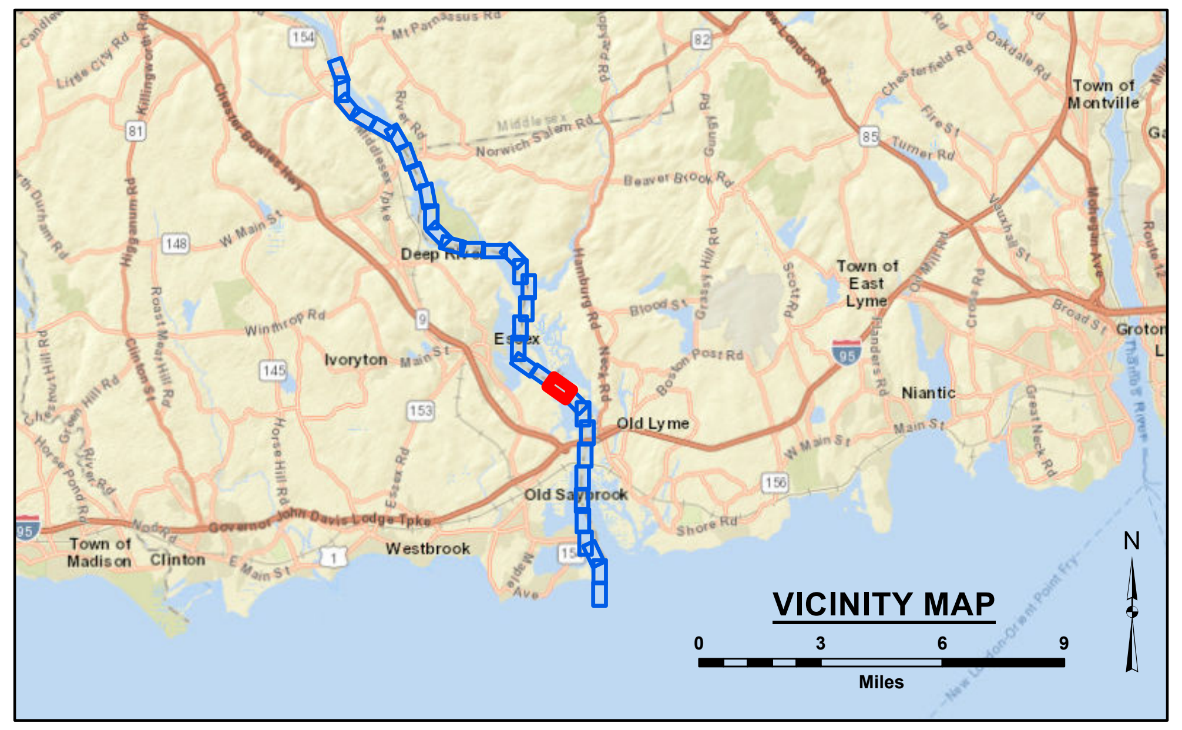
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040



LEGEND

- —·— Federal Navigation Channel
- ······ Cable or Pipeline area
- — — Channel Center Line
- —— Marine Infrastructure*
- —— Contour Line
- ✳ Fixed Navigation Aids
- ⊠ Obstruction Point
- ! Red Navigation Buoy
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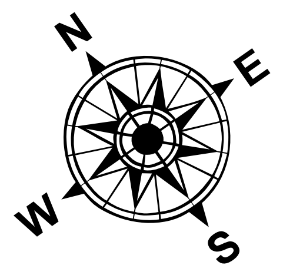
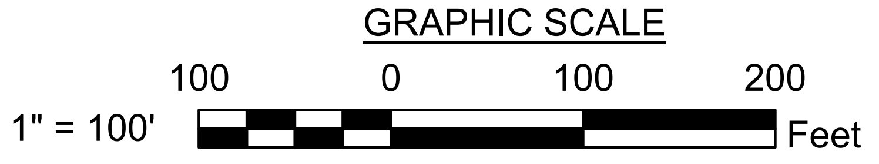
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
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Survey No.: CT_06_CRB_20250702_CS_040
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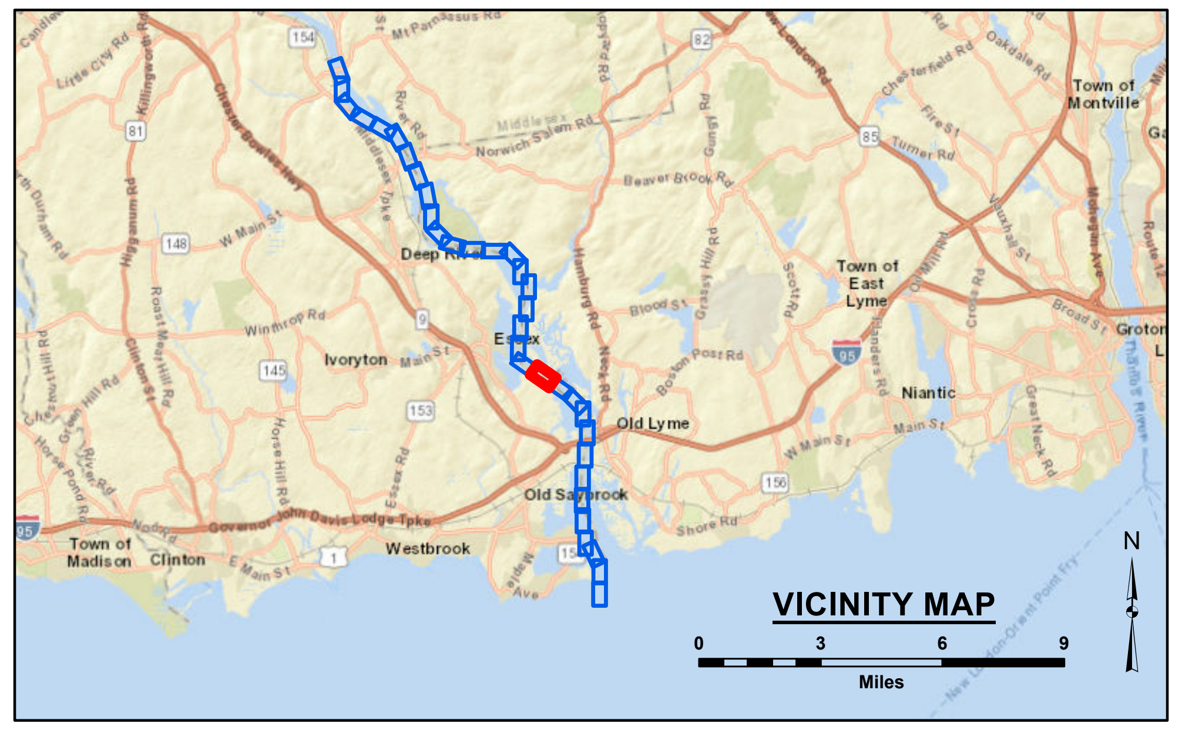
SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 12 of 34

Revision Number: 5.24.09.03-5.24.09.03



LEGEND

- --- Federal Navigation Channel
- ······ Cable or Pipeline area
- --- Channel Center Line
- — Marine Infrastructure*
- — Contour Line
- ✳ Fixed Navigation Aids
- ☒ Obstruction Point
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** Shoalest Sounding per Quarter per Reach
*Present at Time of Survey

GRAPHIC SCALE
1" = 100'
100 0 100 200 Feet

N E S W

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
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Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing a Hypack KTD file. The corrections in the project area range from 2.12 feet to 1.26 feet from Saybrook Outer Shoal to Eddy Rock Shoal. 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

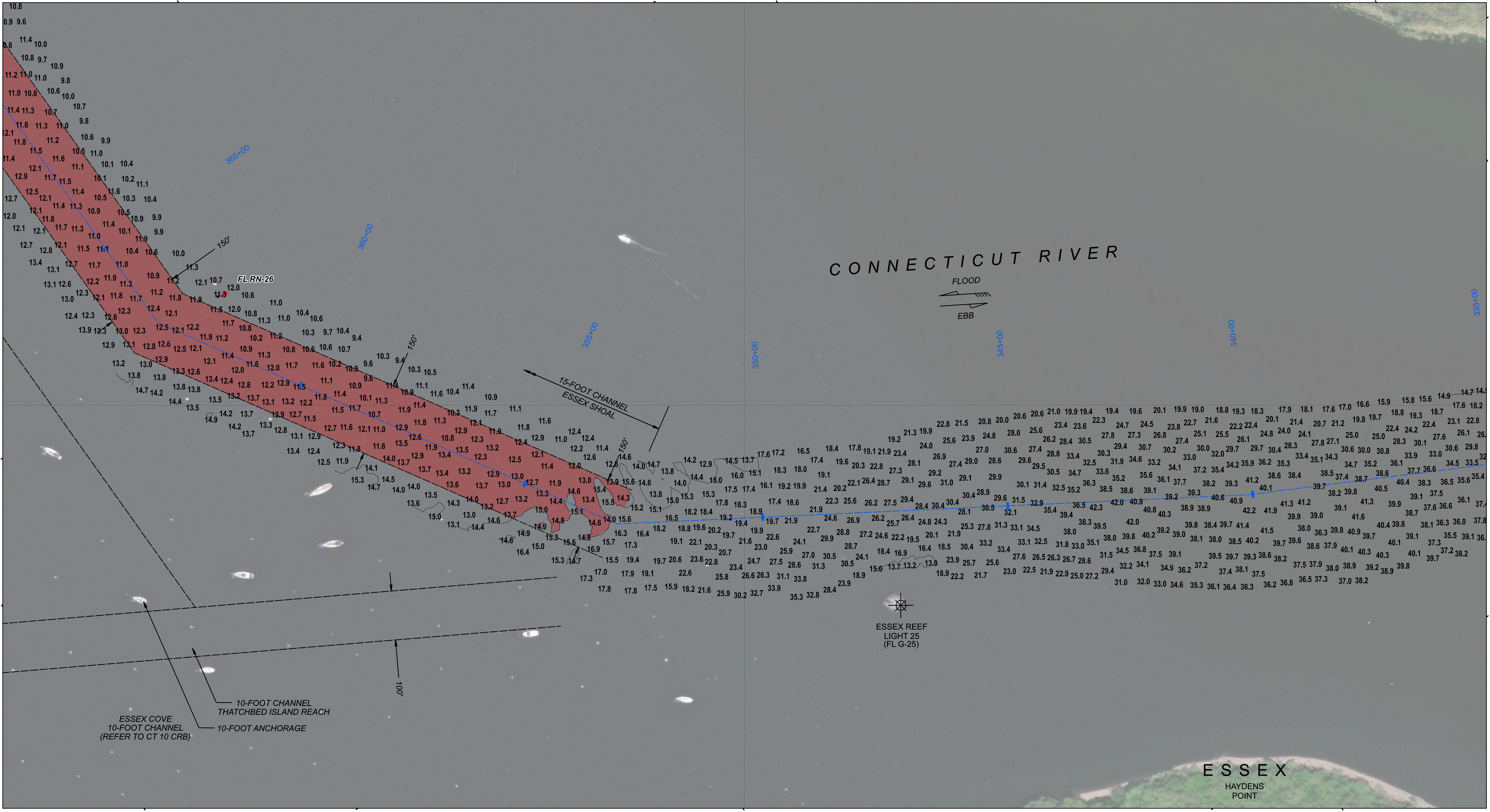
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

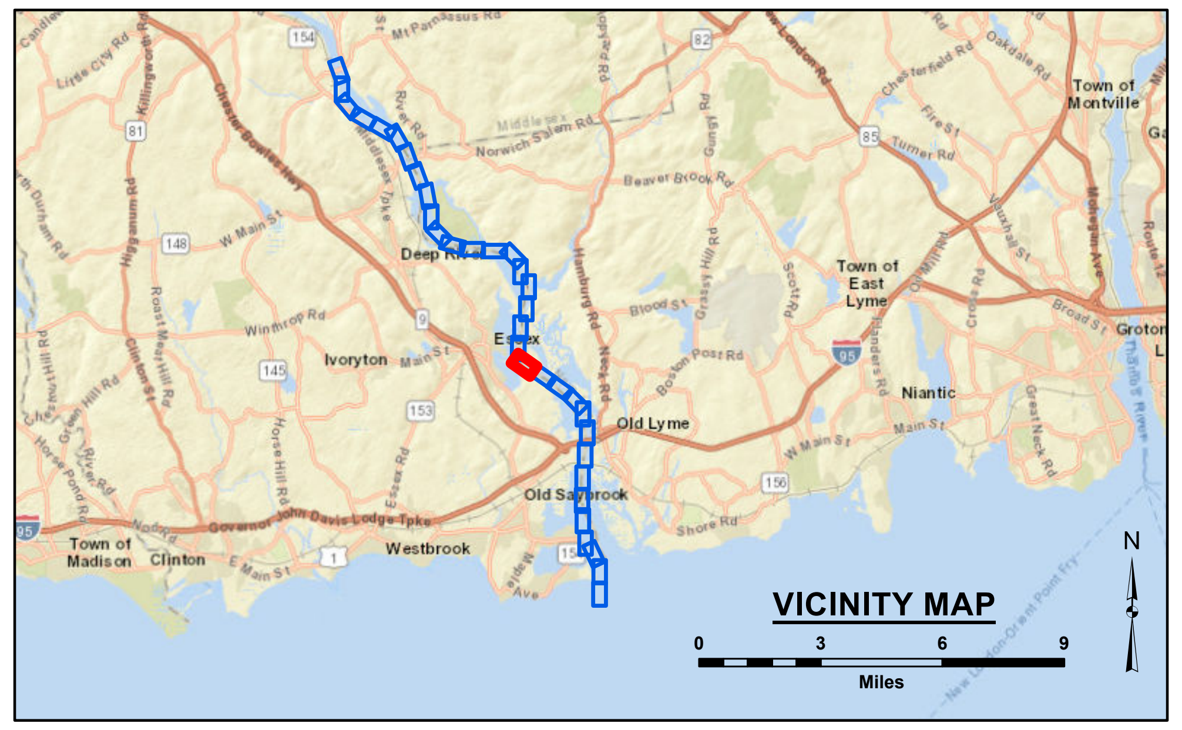
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River Saybrook to Haddam
Sheet 13 of 34





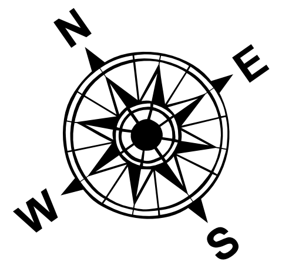
LEGEND

- –—– Federal Navigation Channel
- ······· Cable or Pipeline area
- –—– Channel Center Line
- —— Marine Infrastructure*
- —— Contour Line
- ✳ Fixed Navigation Aids
- ⊗ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200
1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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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: AJO
CHECKED BY: ZSM
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
ISSUE DATE: 7/18/2025

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

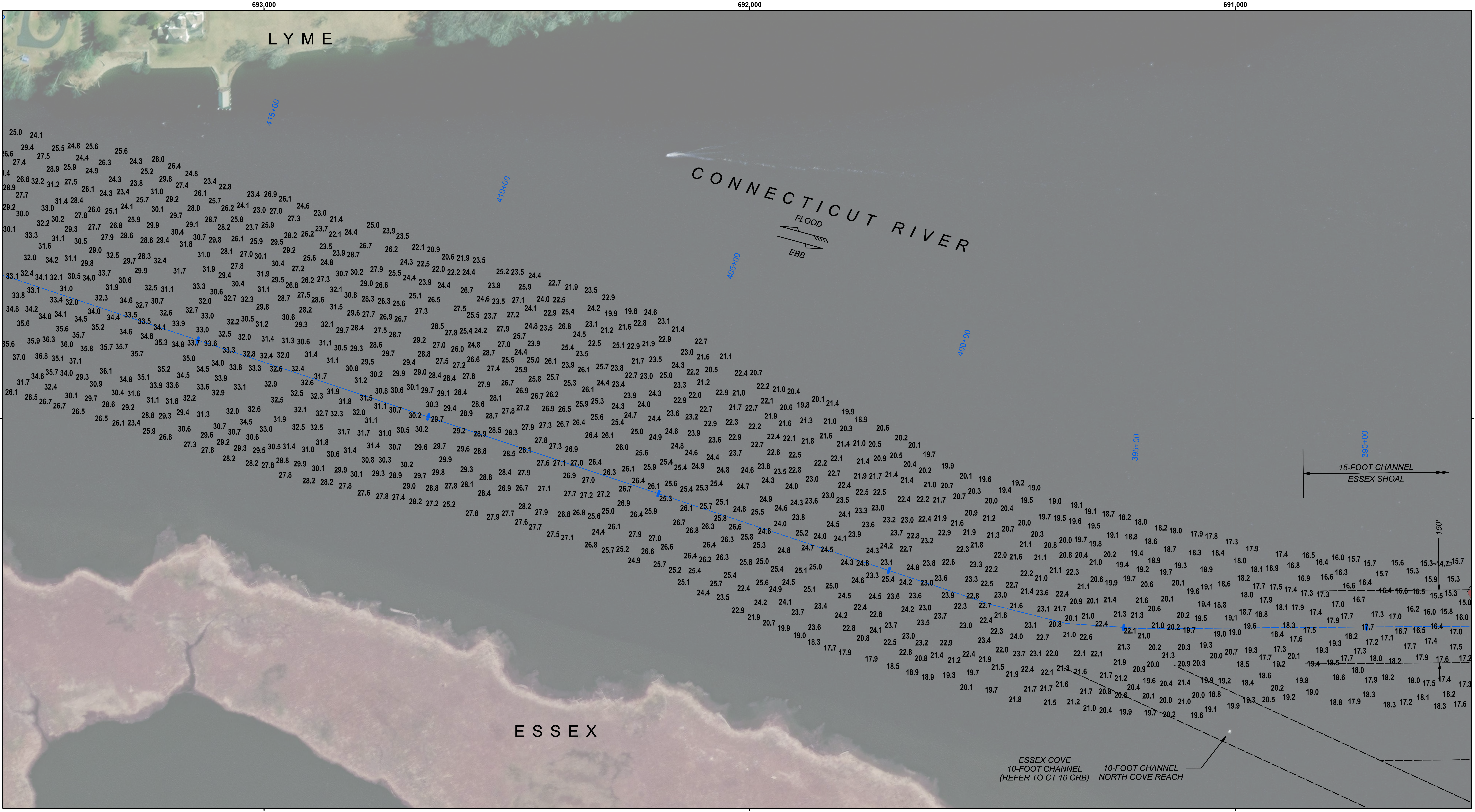
15-FOOT CHANNEL

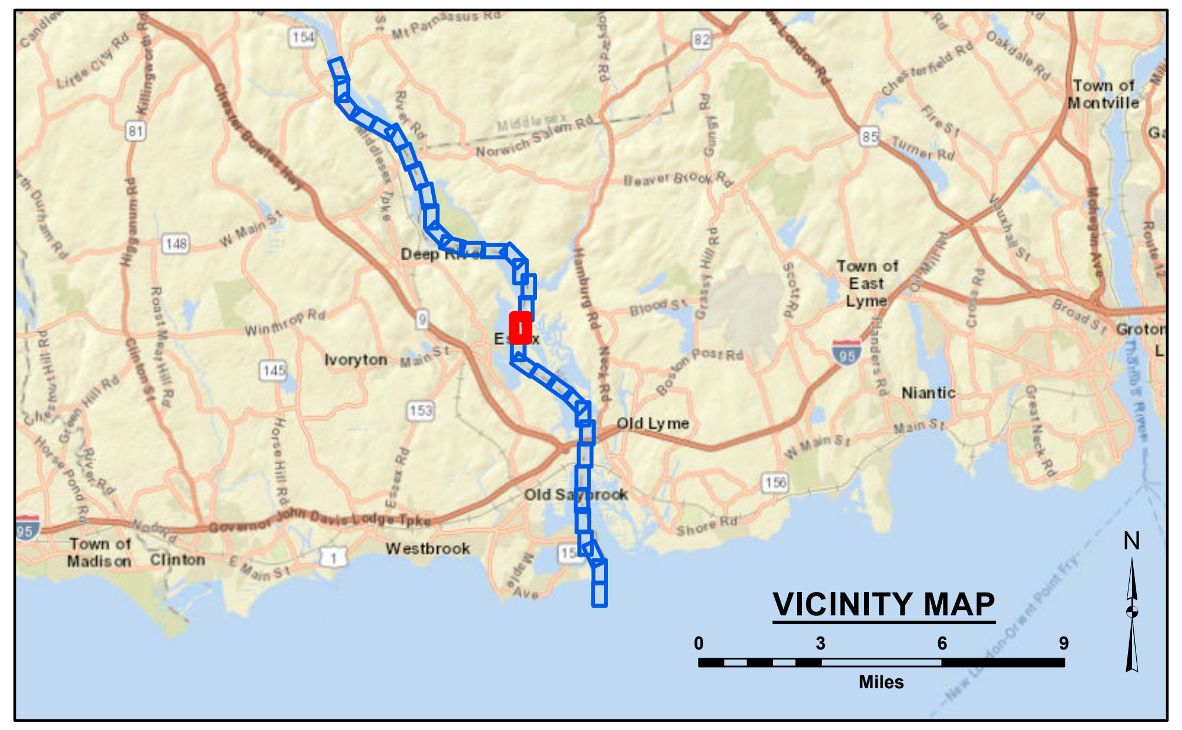
File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River Saybrook to Haddam

Sheet 14 of 34

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

--- Federal Navigation Channel	✳ Fixed Navigation Aids
······ Cable or Pipeline area	☒ Obstruction Point
--- Channel Center Line	! Red Navigation Buoy
— Marine Infrastructure*	! Green Navigation Buoy
— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

N E S W

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

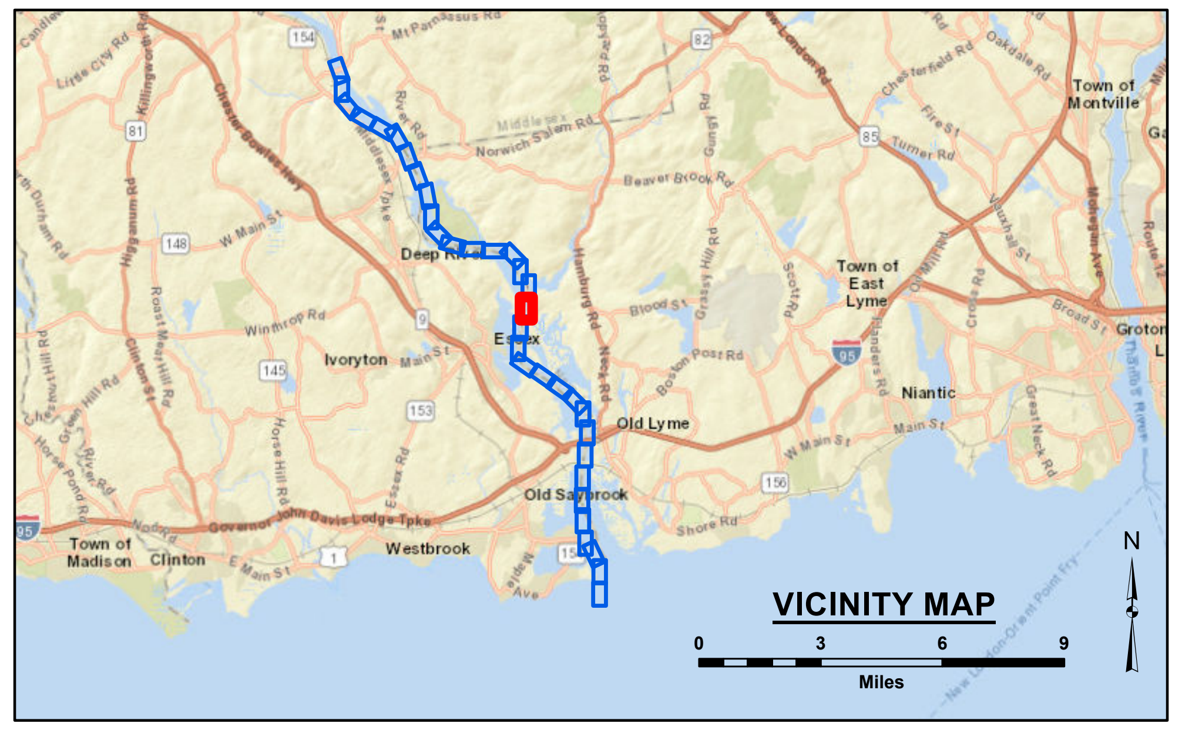
SUBMITTED BY: Joshua Bromberg	SURVEYED BY: AJO
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D	MAP DOCUMENT: CT_06_CRB_20250702_CS_040
	ISSUE DATE: 7/18/2025

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM, CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 16 of 34

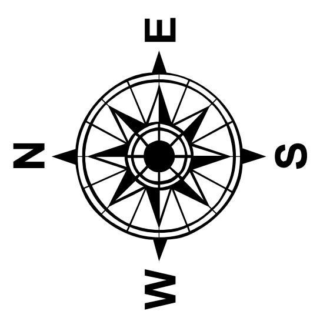


LEGEND

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

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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District: CENAE**

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

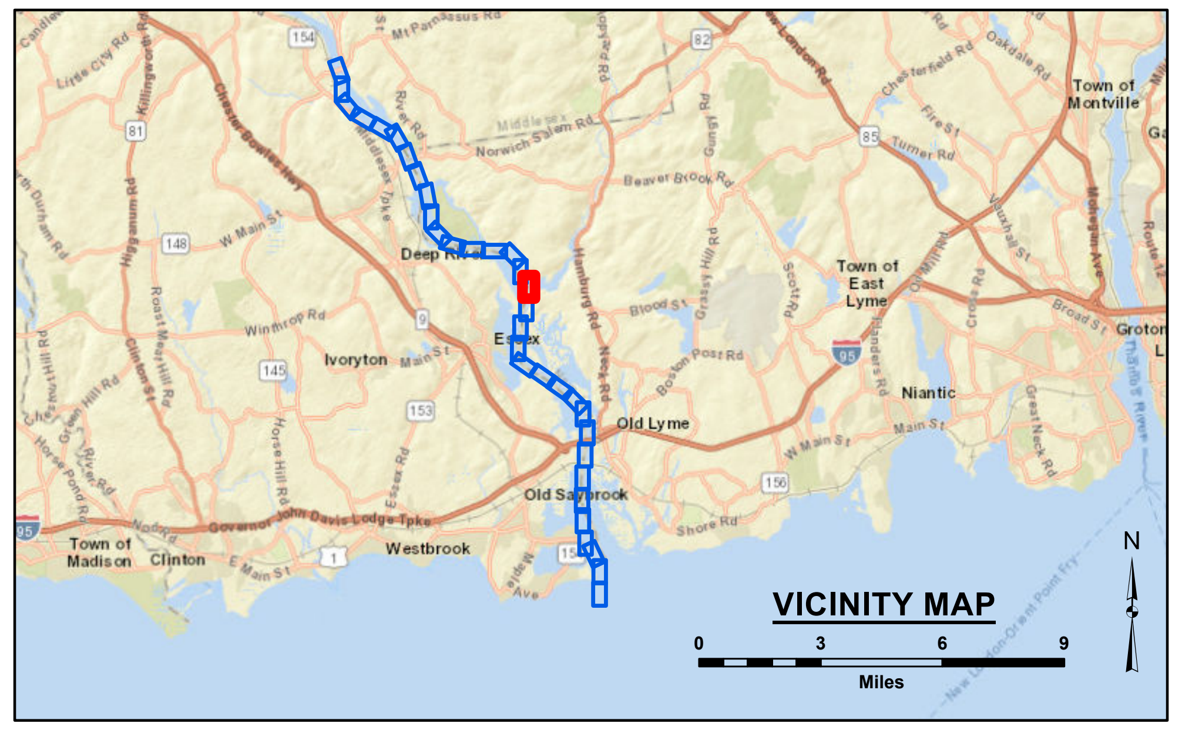
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

**CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY**

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

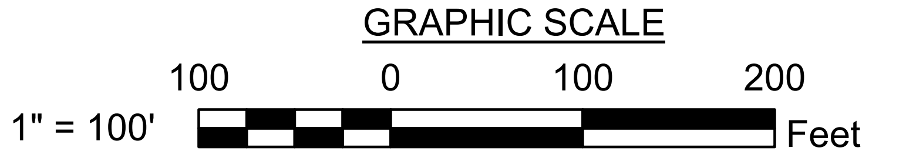
SHEET IDENTIFICATION
**Connecticut River
Saybrook to Haddam**
Sheet 17 of 34

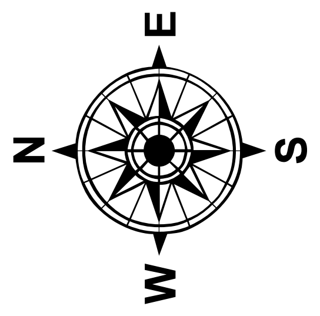


LEGEND

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

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Water Level Information

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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY

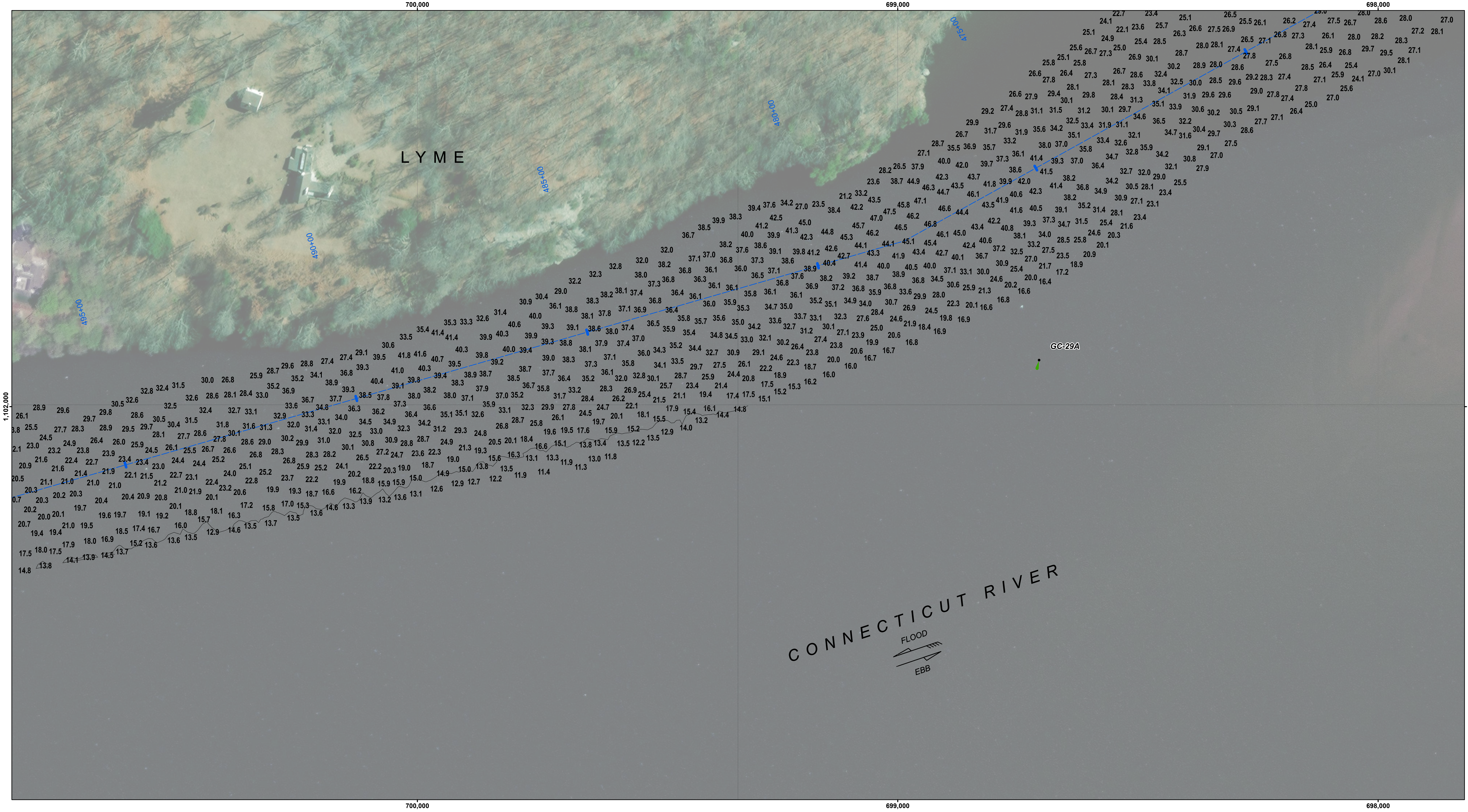
15-FOOT CHANNEL

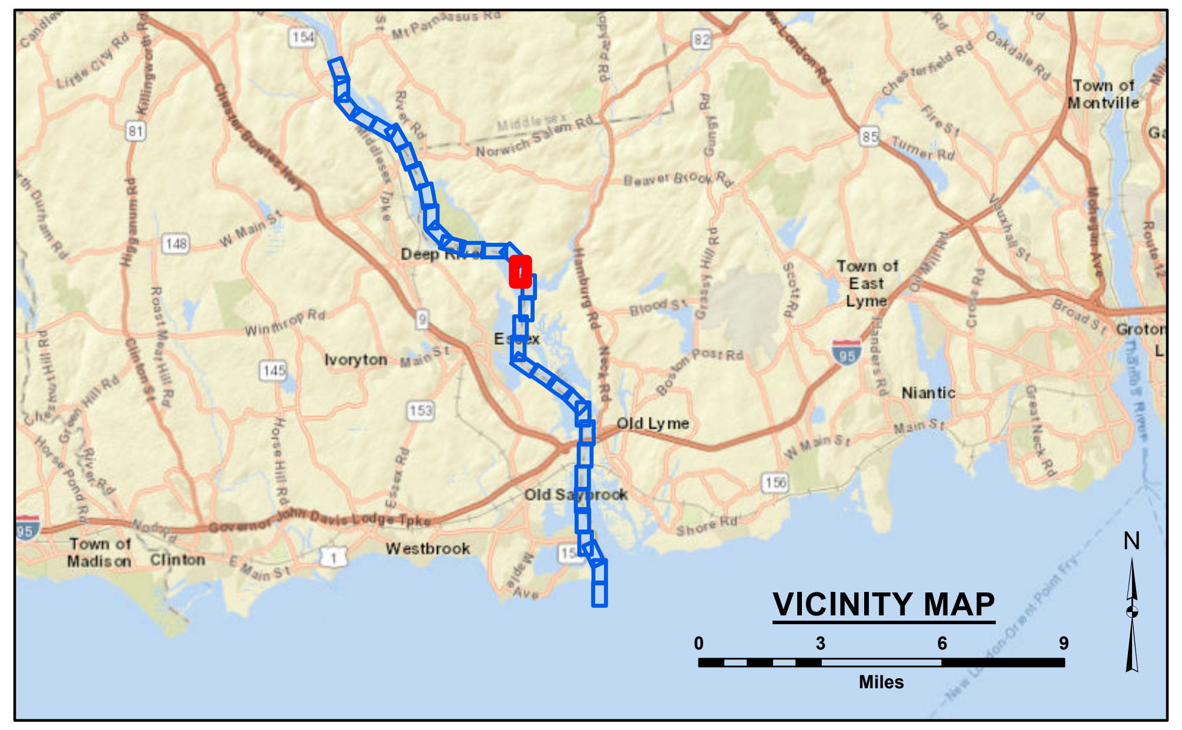
File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 18 of 34

Revision Number: 5.24.09.03-5.24.09.03





VICINITY MAP

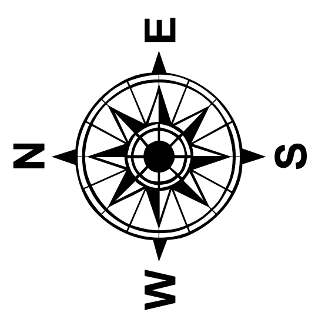
LEGEND

—·—	Federal Navigation Channel	✳	Fixed Navigation Aids
······	Cable or Pipeline area	⊗	Obstruction Point
—·—	Channel Center Line	!	Red Navigation Buoy
—	Marine Infrastructure*	!	Green Navigation Buoy
—	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200
1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

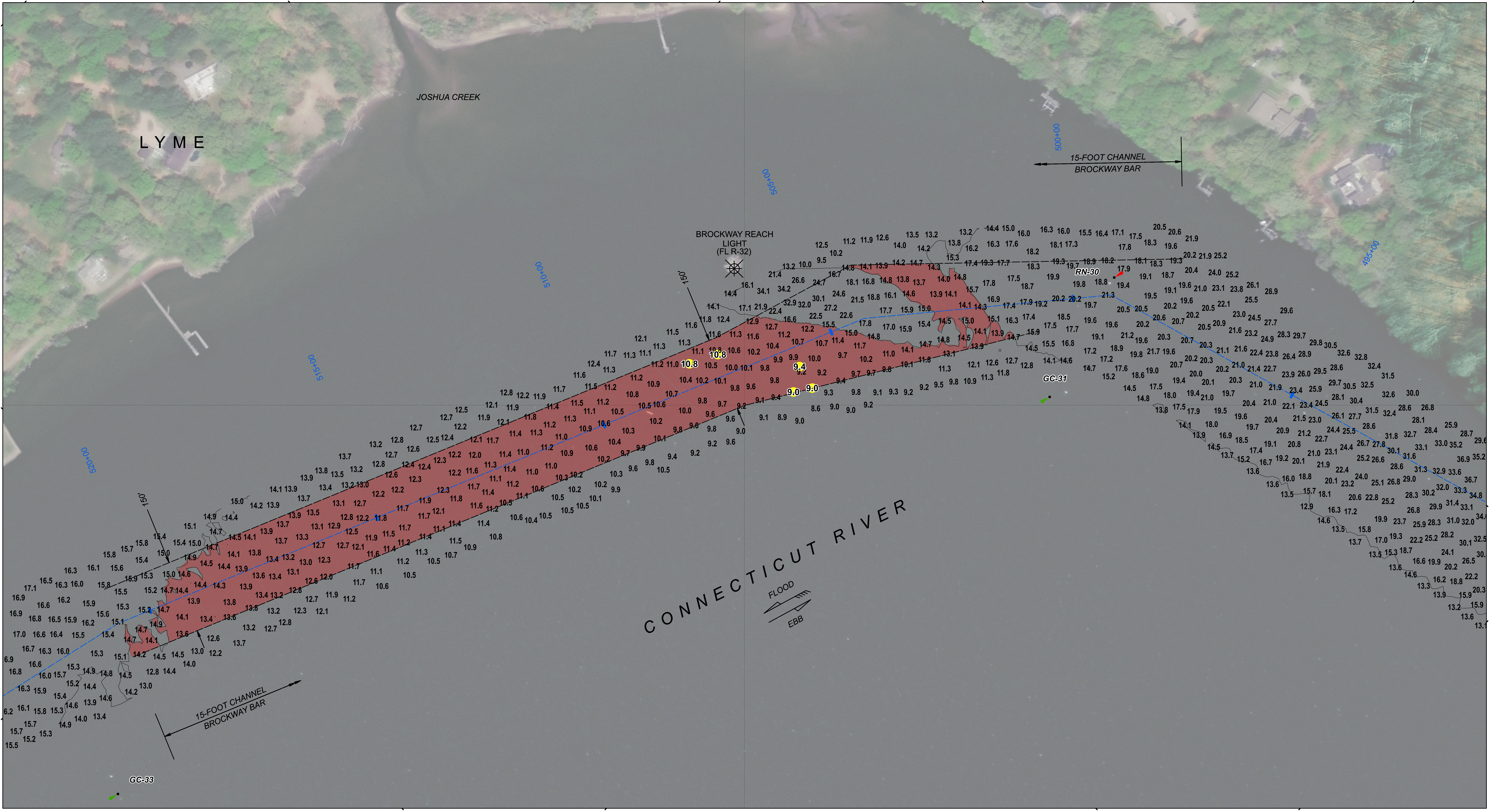
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

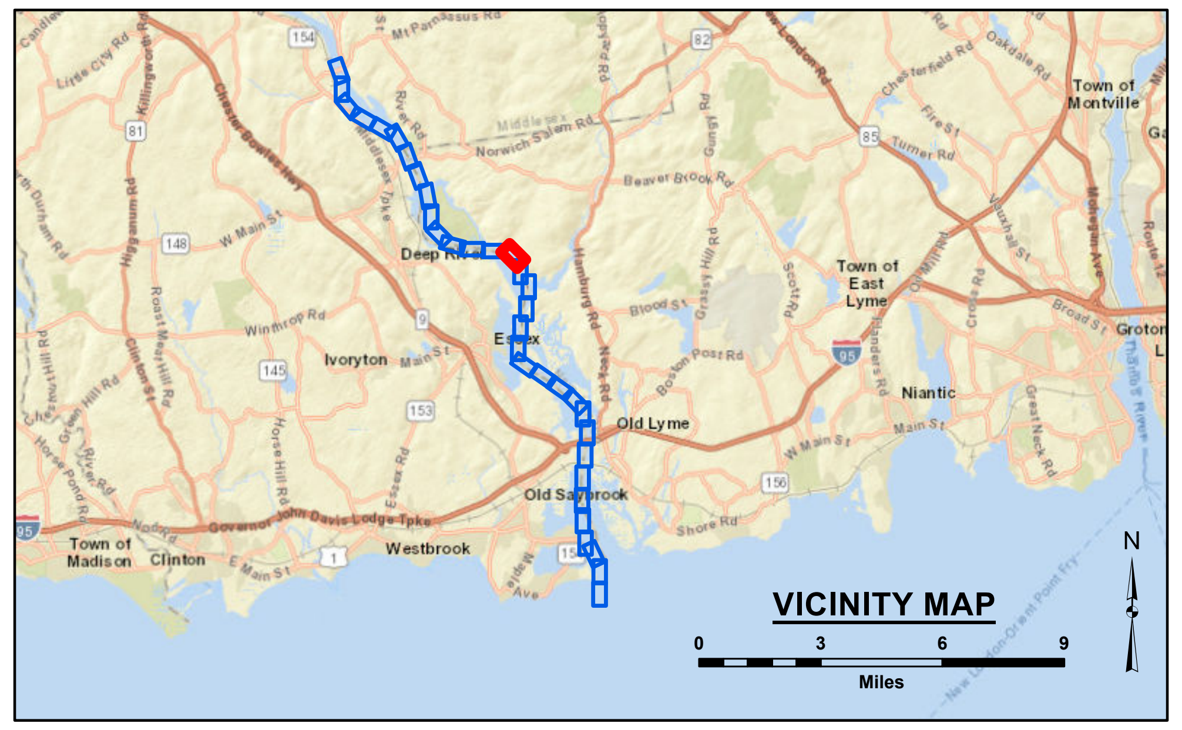
15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 19 of 34

Revision Number: 5.24.09.03-5.24.09.03





LEGEND

—·—	Federal Navigation Channel	✳	Fixed Navigation Aids
······	Cable or Pipeline area	⊠	Obstruction Point
——	Channel Center Line	!	Red Navigation Buoy
——	Marine Infrastructure*	!	Green Navigation Buoy
——	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

N E S W

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
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Project Remarks
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Water Level Information
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

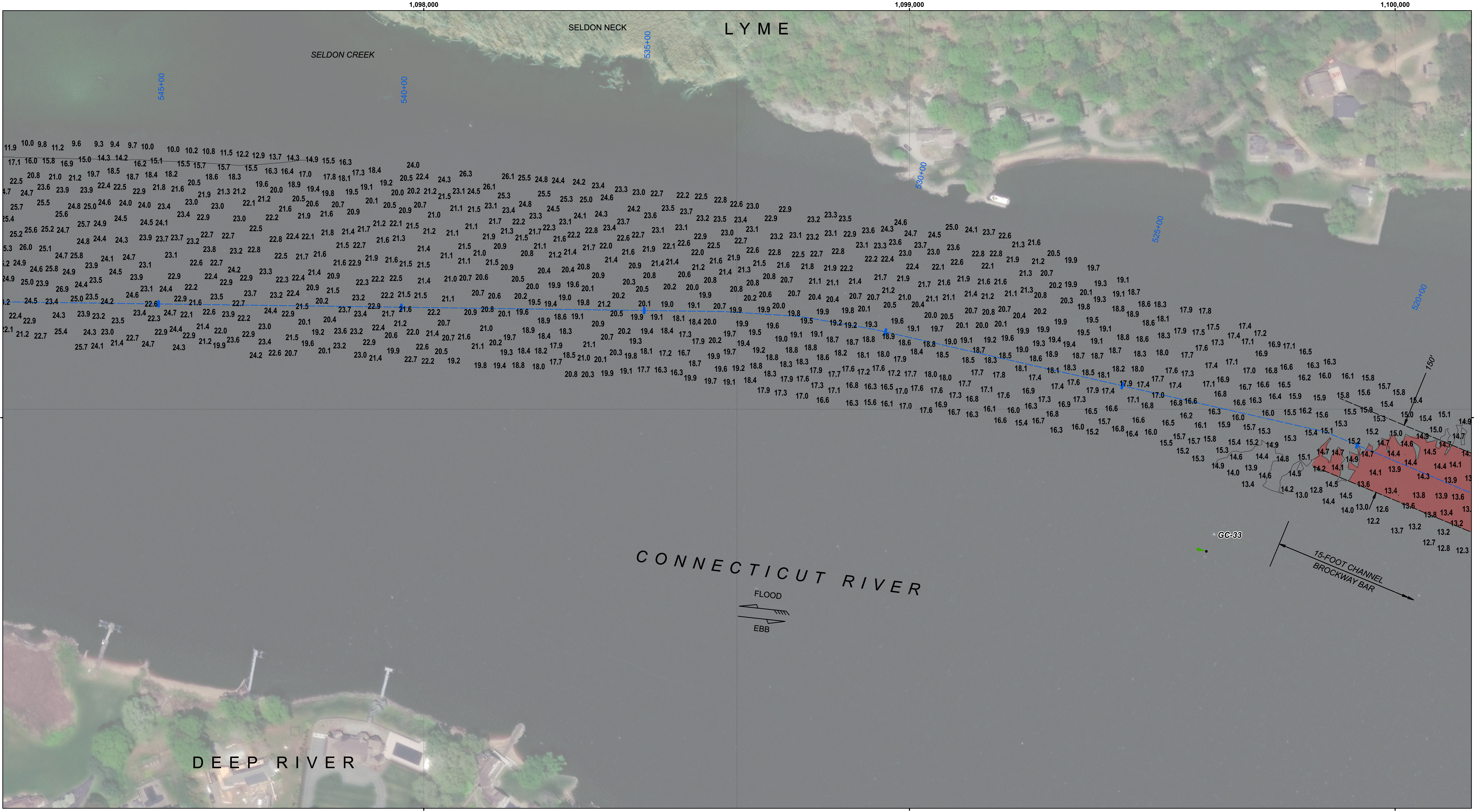
SUBMITTED BY: Joshua Bromberg	SURVEYED BY: AJO
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D · MAP DOCUMENT: CT_06_CRB_20250702_CS_040	ISSUE DATE: 7/18/2025

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET
IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 20 of 34



US Army Corps of Engineers
District: CENAE

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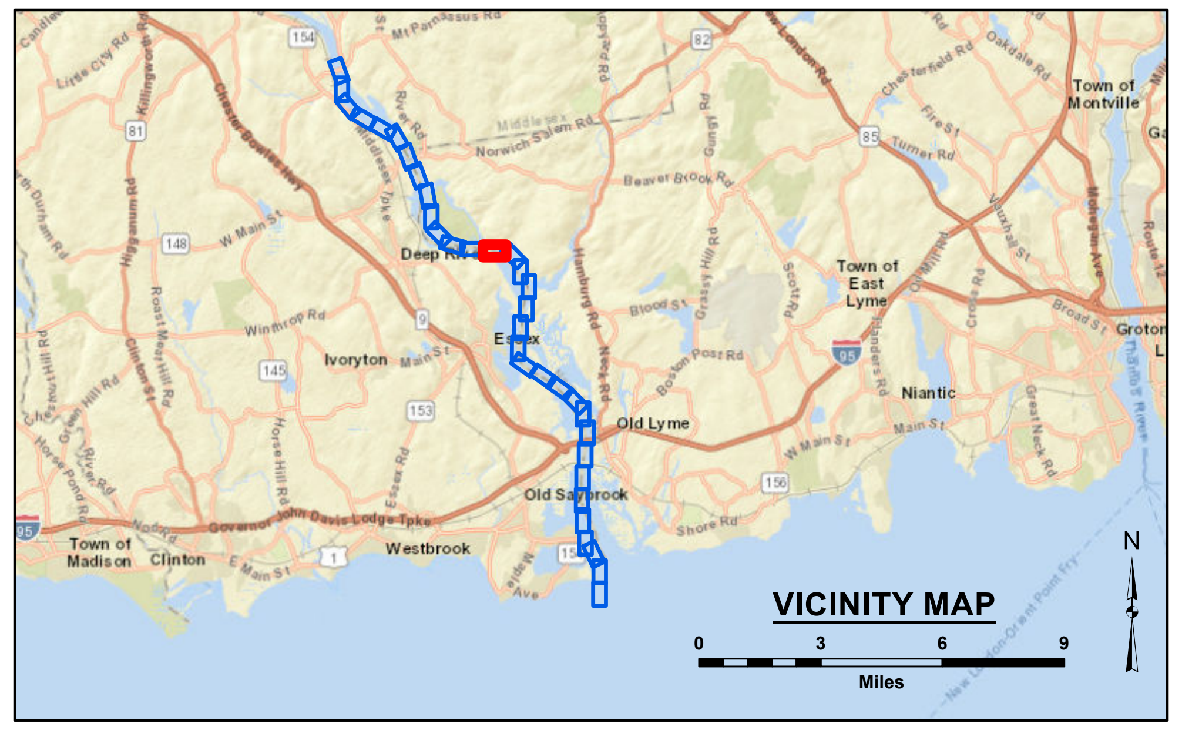
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

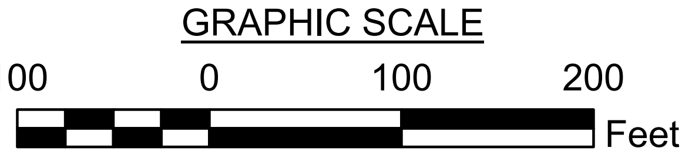
SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 21 of 34

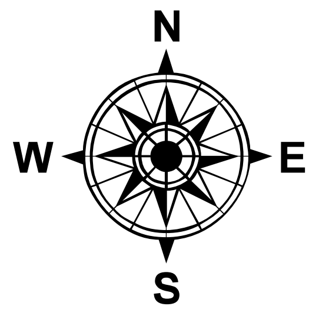


LEGEND

--- Federal Navigation Channel	✳ Fixed Navigation Aids
······ Cable or Pipeline area	⊠ Obstruction Point
--- Channel Center Line	! Red Navigation Buoy
— Marine Infrastructure*	! Green Navigation Buoy
— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks
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Water Level Information
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Revision Number: 5.24.09.03-5.24.09.03

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

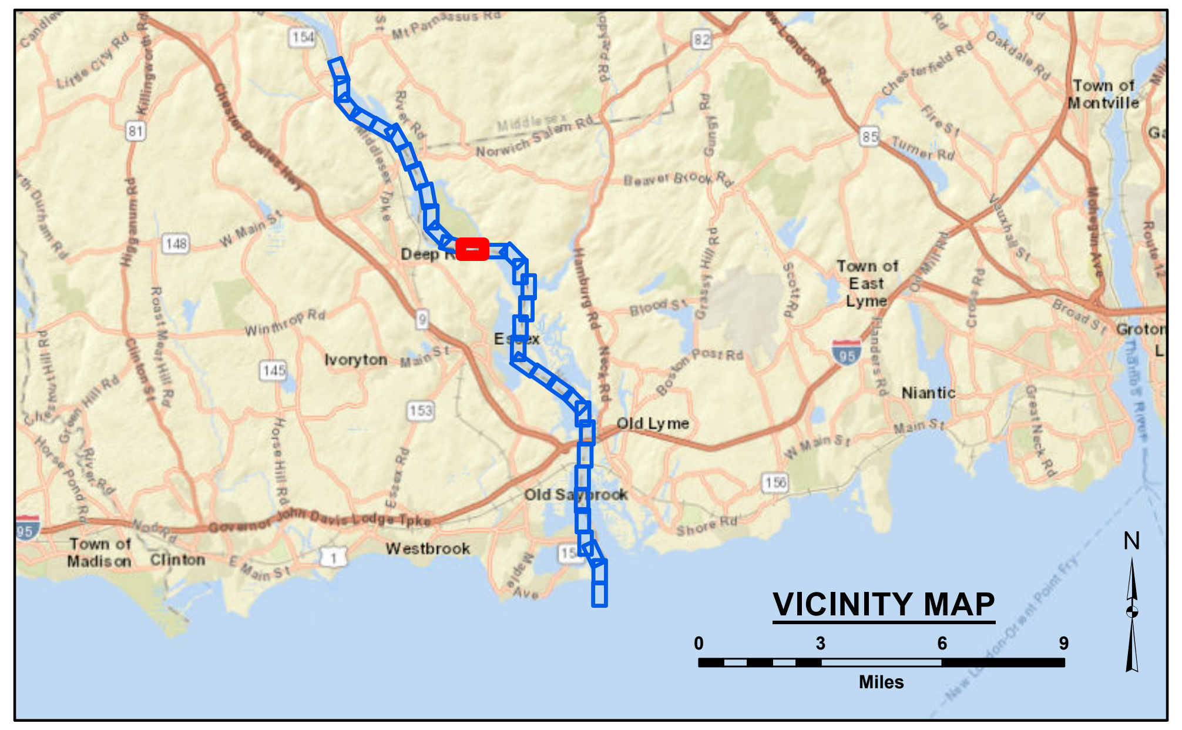
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River Saybrook to Haddam
Sheet 22 of 34

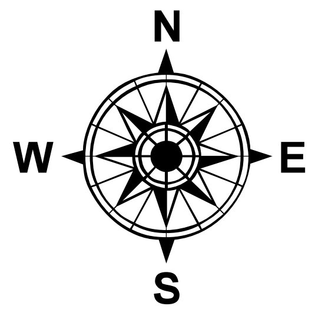


VICINITY MAP

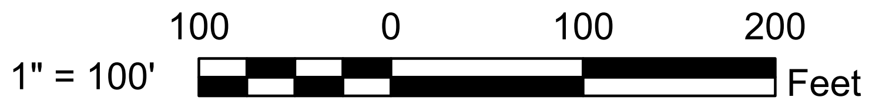
LEGEND

— — Federal Navigation Channel	✳ Fixed Navigation Aids
········ Cable or Pipeline area	☒ Obstruction Point
— — Channel Center Line	! Red Navigation Buoy
—— Marine Infrastructure*	! Green Navigation Buoy
—— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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



GRAPHIC SCALE



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

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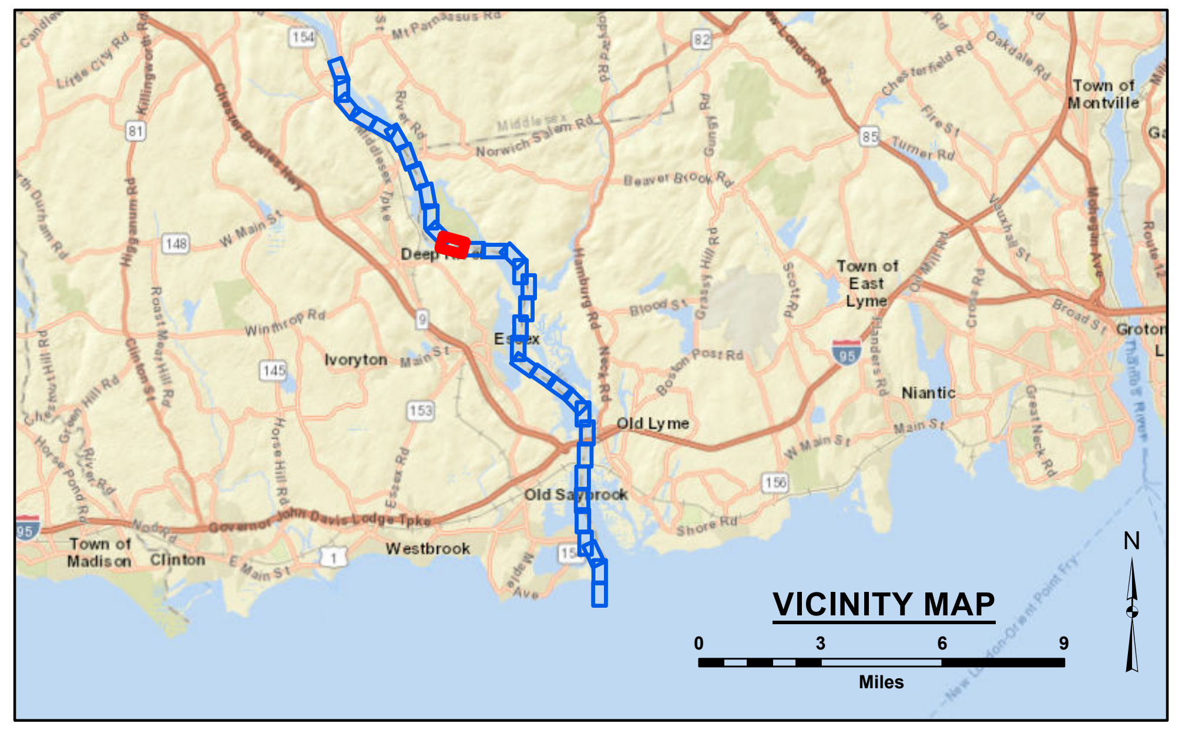
Revision Number: 5.24.09.03-5.24.09.03



LEGEND

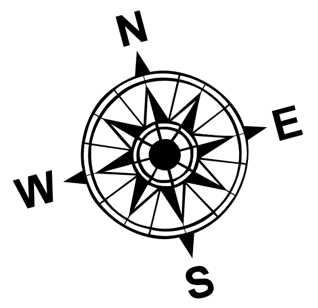
- —— Federal Navigation Channel
- ······ Cable or Pipeline area
- – – Channel Center Line
- —— Marine Infrastructure*
- —— Contour Line
- ✳ Fixed Navigation Aids
- ⊠ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

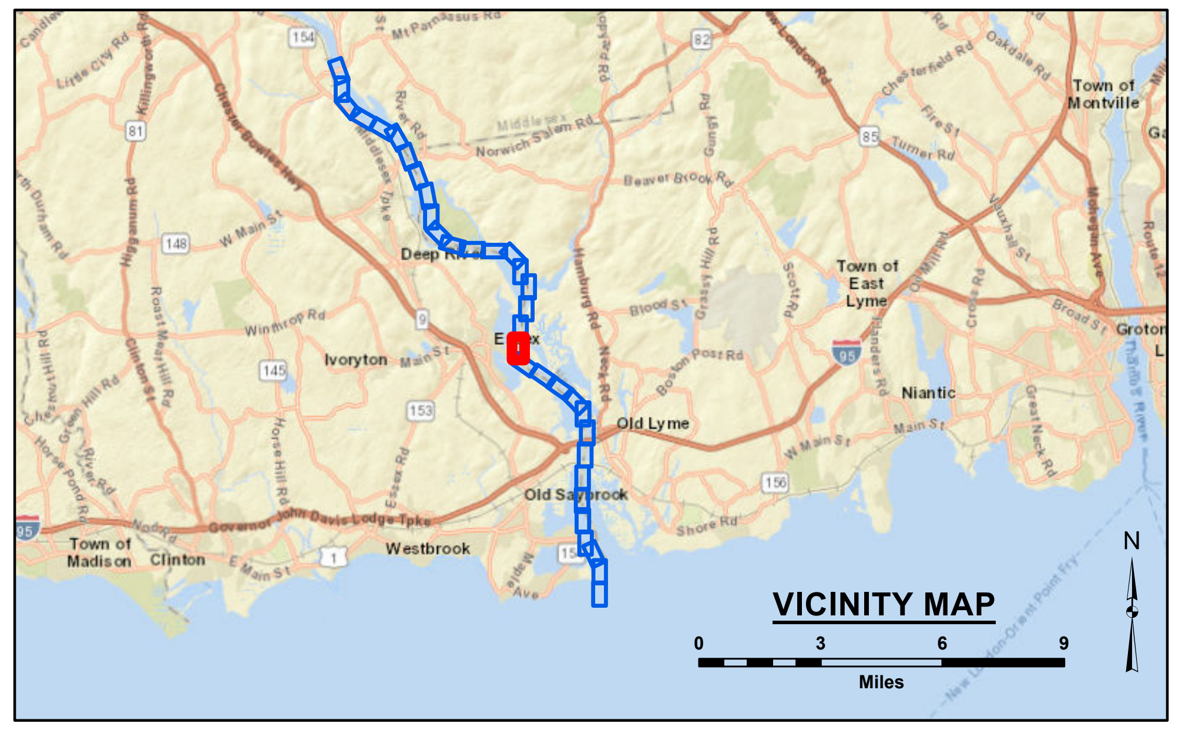
15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 23 of 34

Revision Number: 5.24.09.03-5.24.09.03



LEGEND

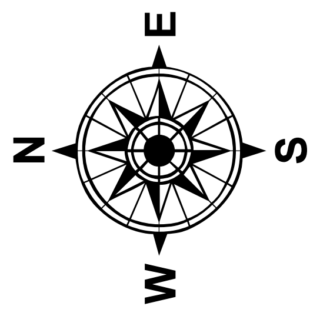
- --- Federal Navigation Channel
- ······ Cable or Pipeline area
- --- Channel Center Line
- — Marine Infrastructure*
- — Contour Line
- ✳ Fixed Navigation Aids
- ⊠ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE

1" = 100'

100 0 100 200 Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg	SURVEYED BY: AJO
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D	MAP DOCUMENT: CT_06_CRB_20250702_CS_040
	ISSUE DATE: 7/18/2025

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

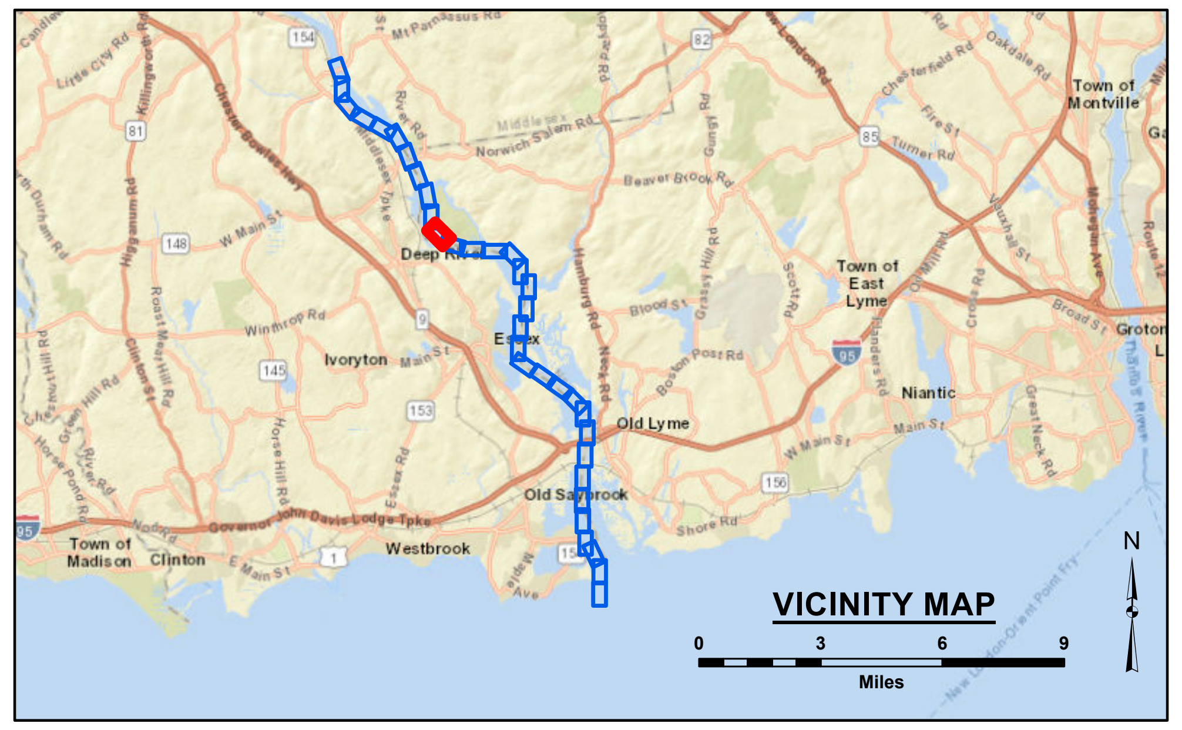
File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION

Connecticut River
Saybrook to Haddam

Sheet 15 of 34

Revision Number: 5.24.09.03-5.24.09.03



LEGEND

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

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

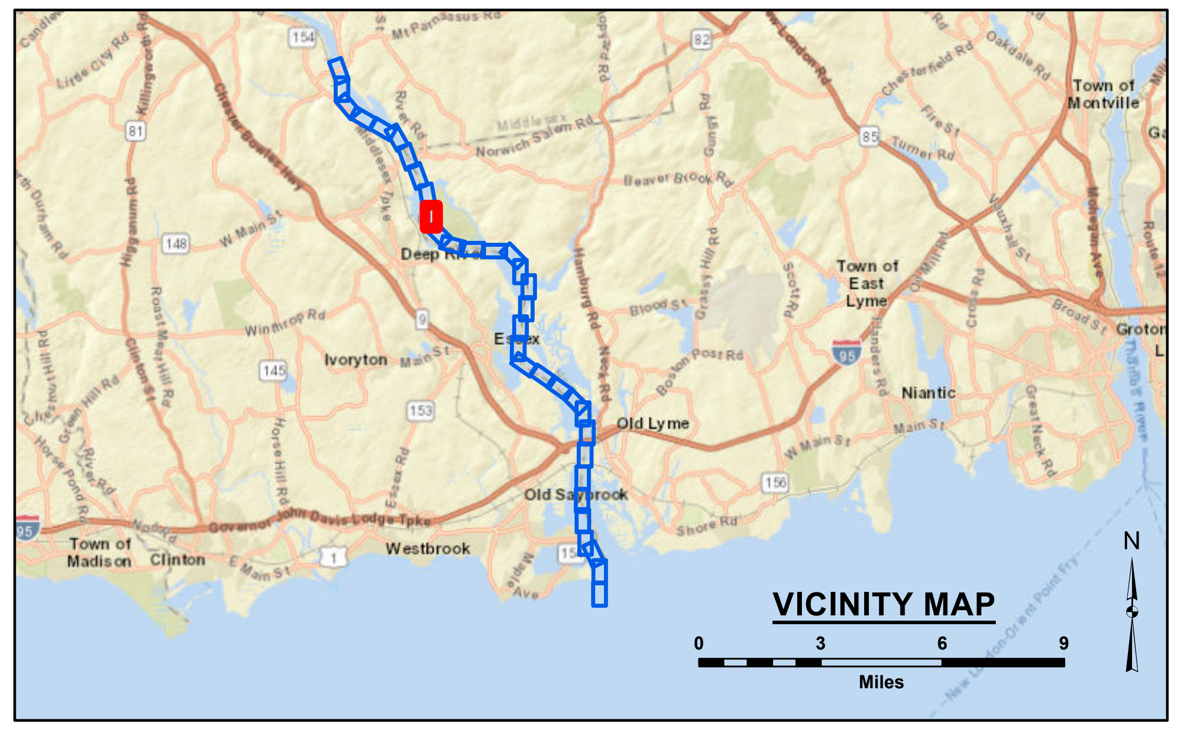
SUBMITTED BY: Joshua Bromberg	SURVEYED BY: AJO
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D	MAP DOCUMENT: CT_06_CRB_20250702_CS_040
ISSUE DATE: 7/18/2025	

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM, CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 24 of 34



LEGEND

- —·— Federal Navigation Channel
- ······ Cable or Pipeline area
- — — Channel Center Line
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** Shoalest Sounding per Quarter per Reach
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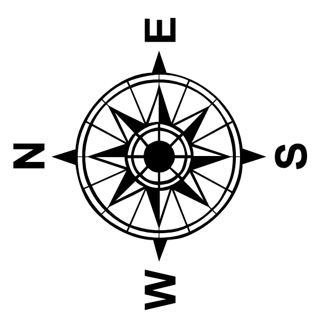
GRAPHIC SCALE

100 0 100 200

1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
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Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
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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: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

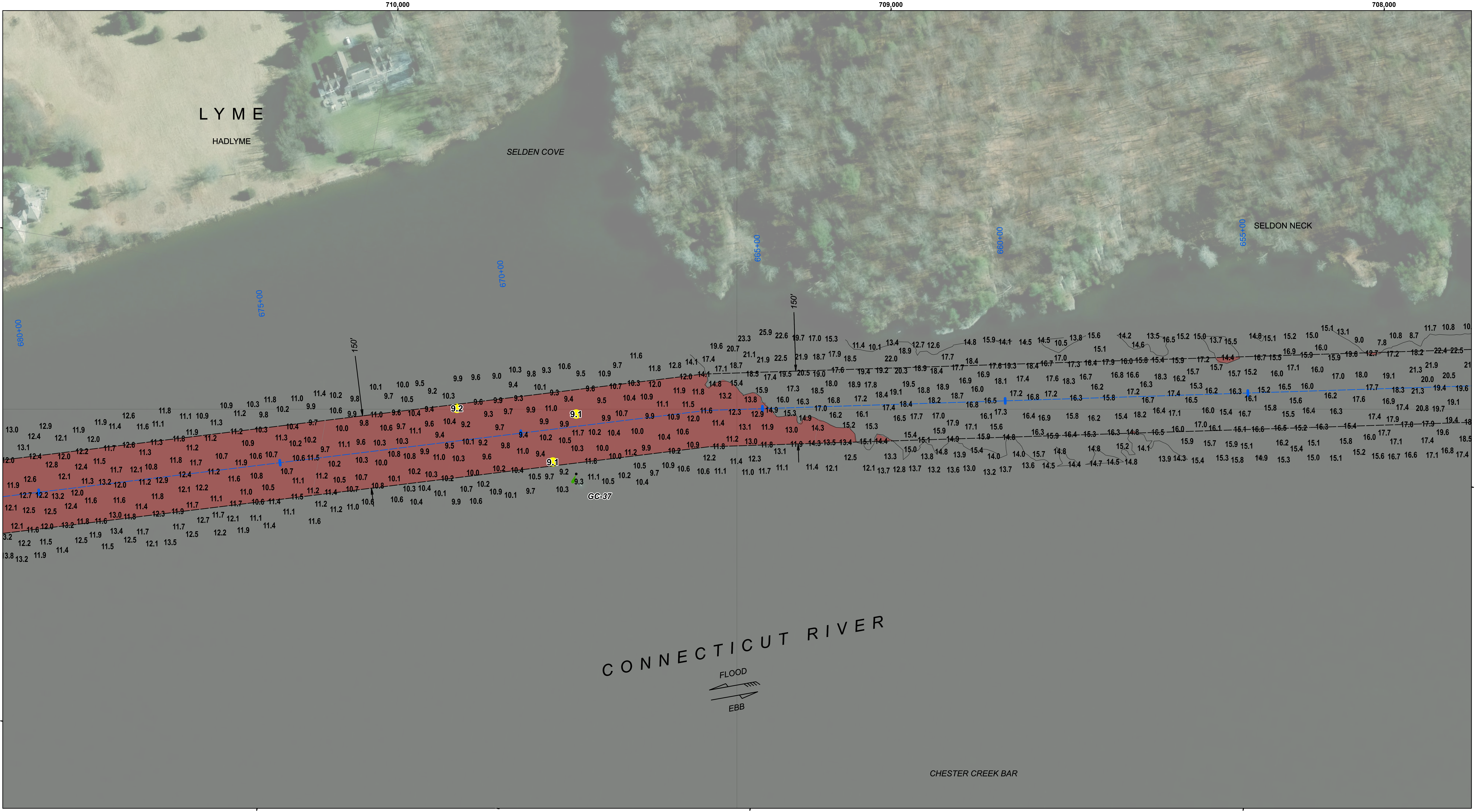
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 25 of 34

Revision Number: 5.24.09.03-5.24.09.03



US Army Corps
of Engineers
District: CENAE

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NEW ENGLAND DISTRICT

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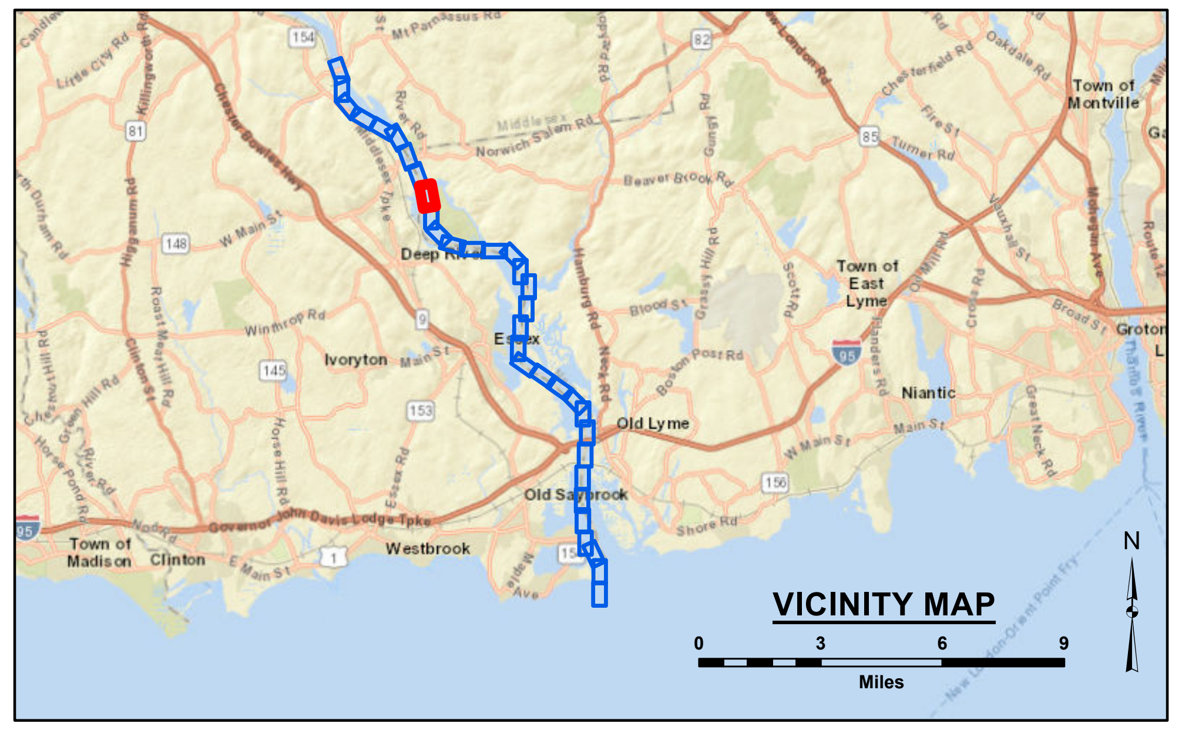
15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 26 of 34



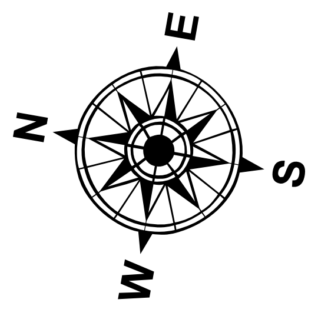
VICINITY MAP

LEGEND

— - —	Federal Navigation Channel	✳	Fixed Navigation Aids
·······	Cable or Pipeline area	⊠	Obstruction Point
— - —	Channel Center Line	!	Red Navigation Buoy
——	Marine Infrastructure*	!	Green Navigation Buoy
——	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information

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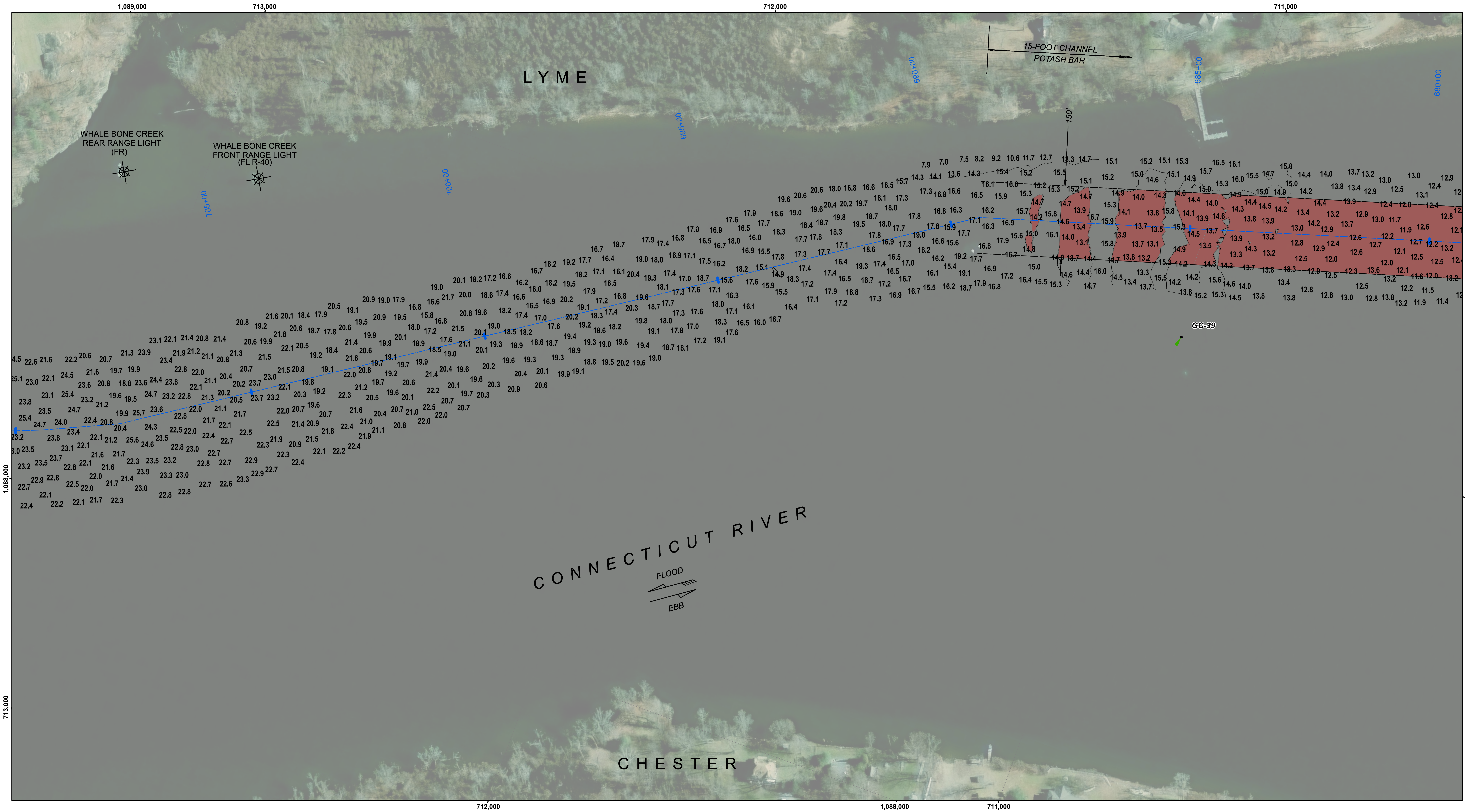
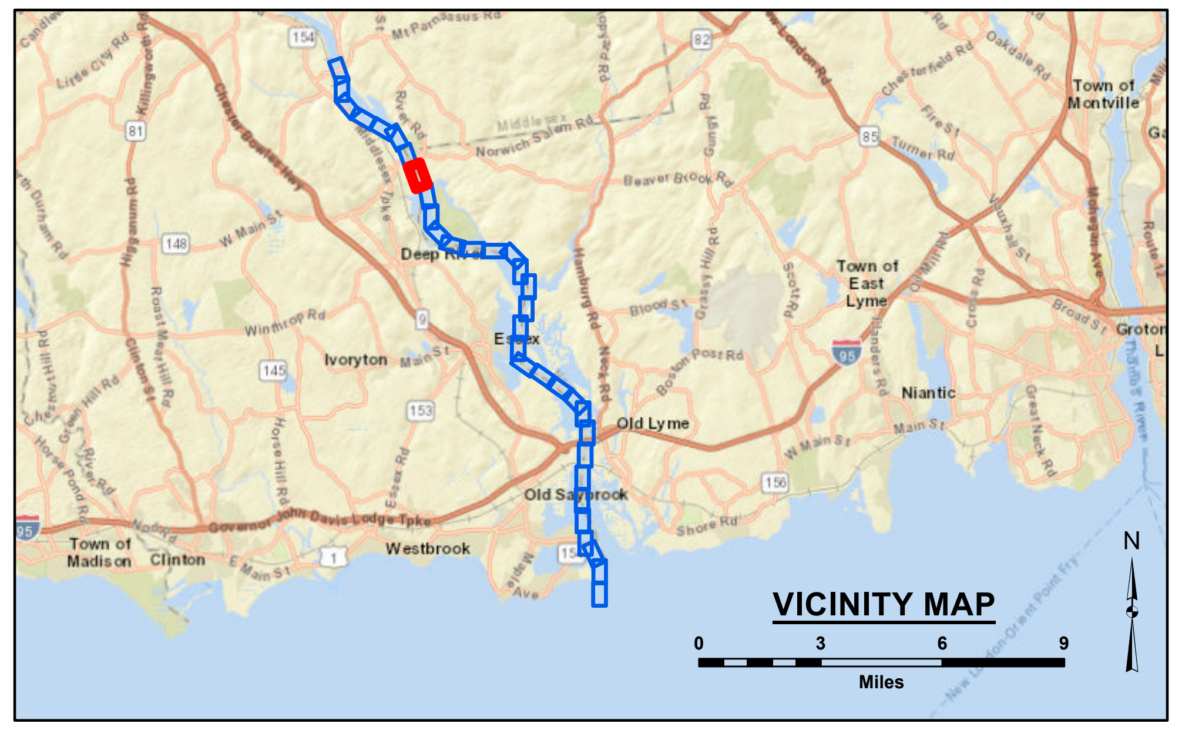
Revision Number: 5.24.09.03-5.24.09.03

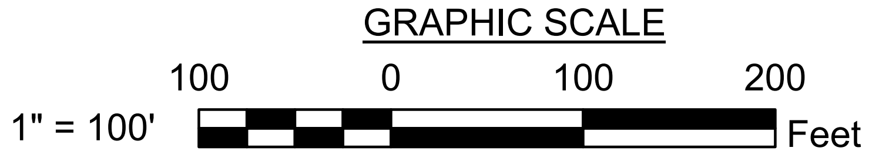


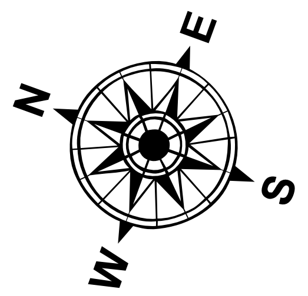


LEGEND

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

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





Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

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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: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

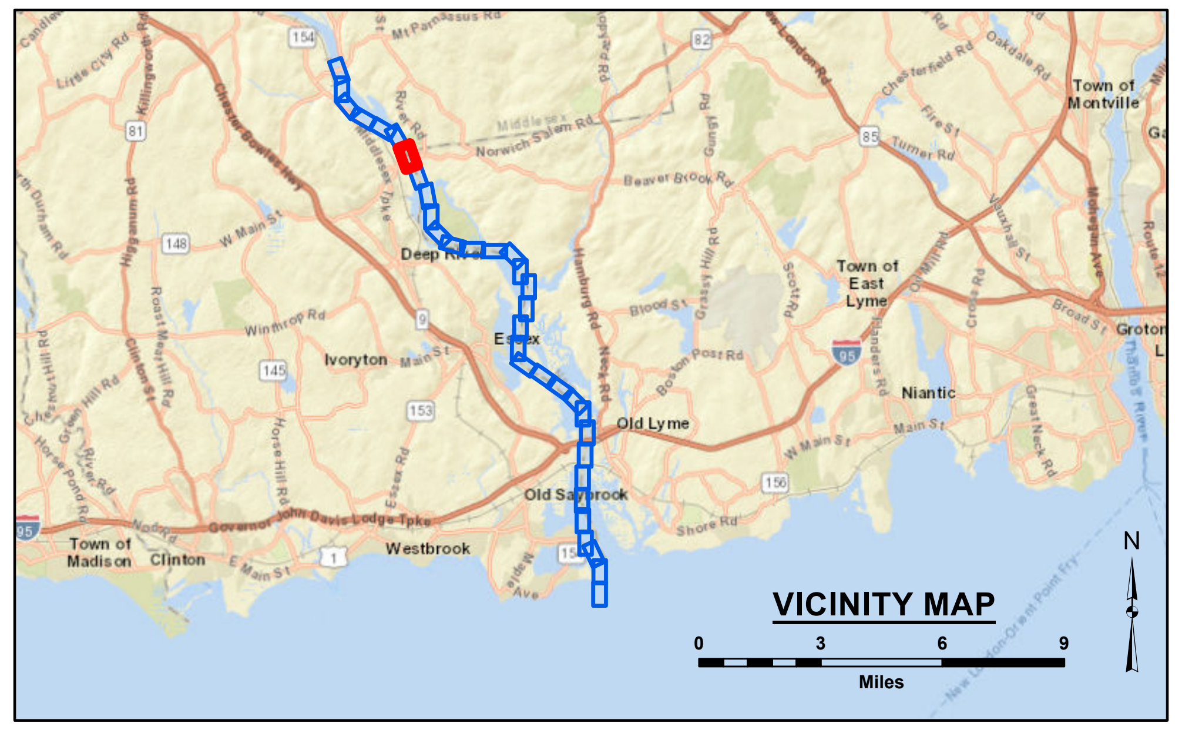
CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River Saybrook to Haddam
Sheet 27 of 34

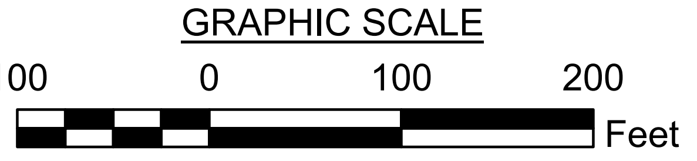
Revision Number: 5.24.09.03-5.24.09.03

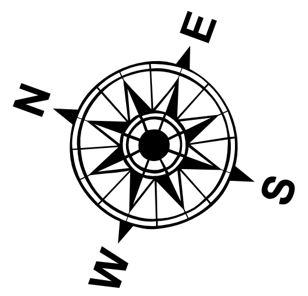


LEGEND

- --- Federal Navigation Channel
- ······ Cable or Pipeline area
- --- Channel Center Line
- — Marine Infrastructure*
- — Contour Line
- ✳ Fixed Navigation Aids
- ☒ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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





Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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Project Remarks

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Water Level Information

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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM, CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 28 of 34

Revision Number: 5.24.09.03-5.24.09.03

US Army Corps of Engineers District: CENAE

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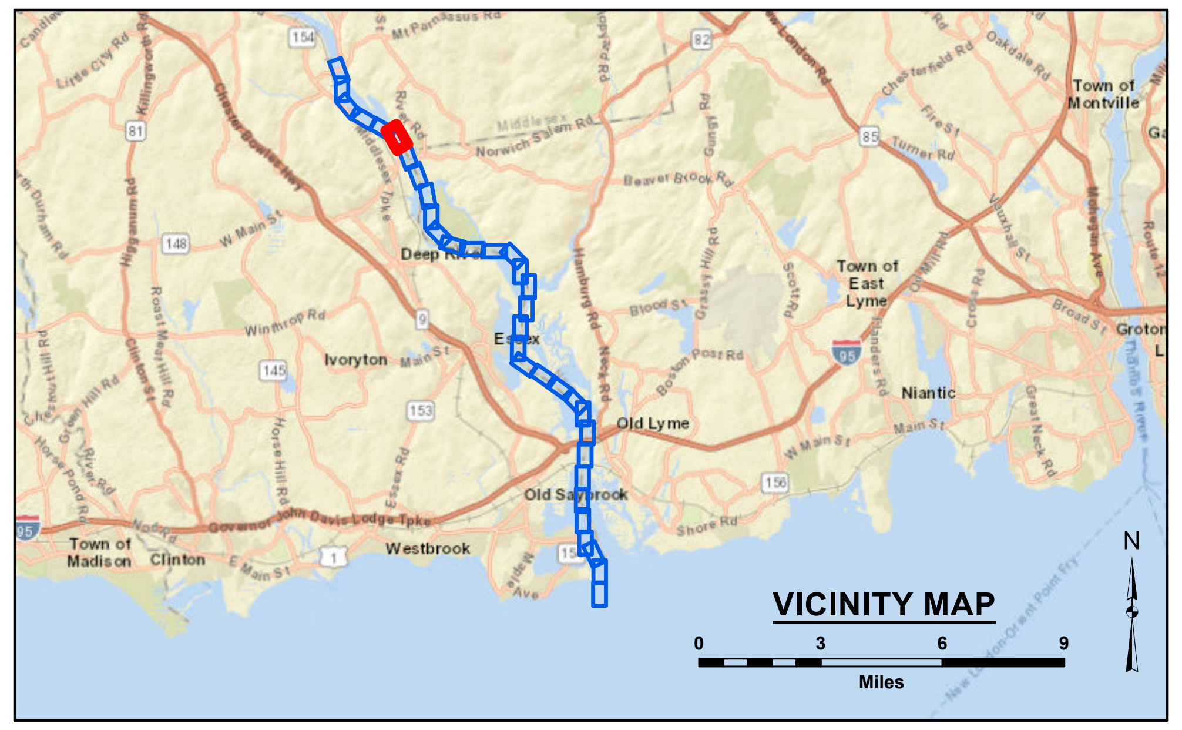
ISSUE DATE: 7/18/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: CT_06_CRB_20250702_CS_040

**CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY**

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040



VICINITY MAP

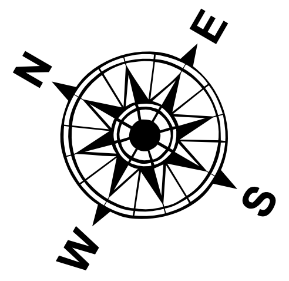
0 3 6 9
Miles

LEGEND

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

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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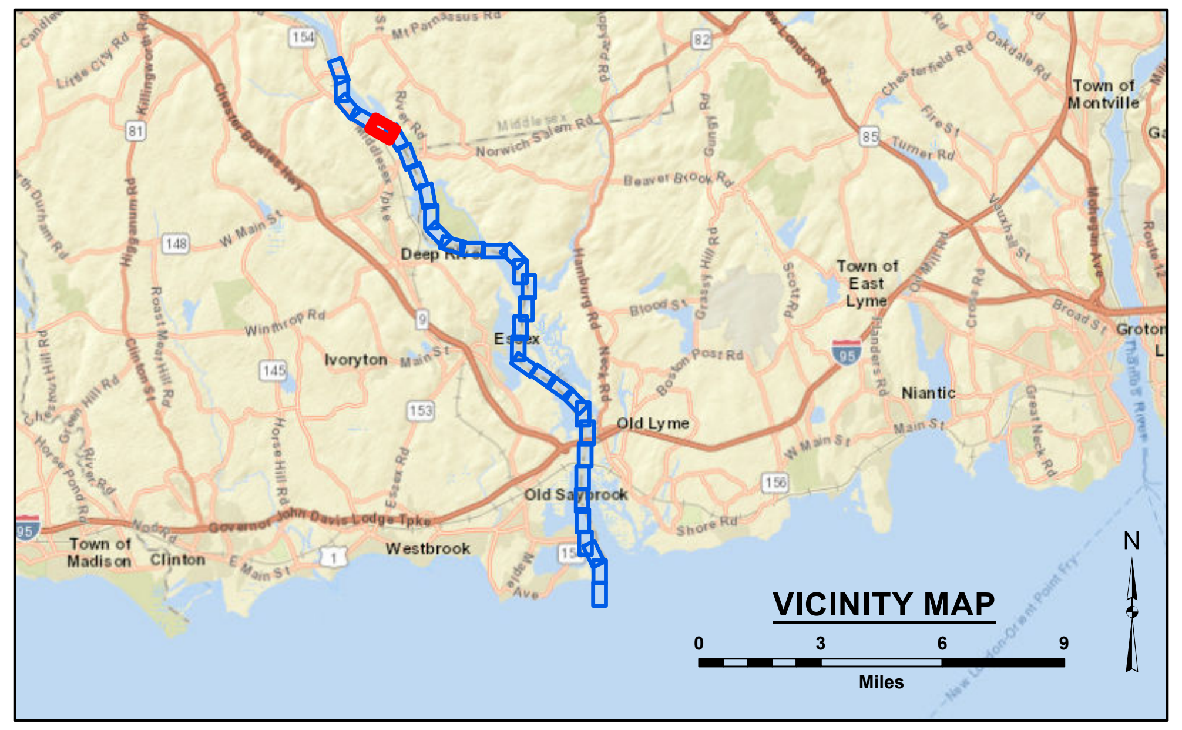
**SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 29 of 34**

CORPS OF ENGINEERS

U.S. ARMY



VICINITY MAP

LEGEND

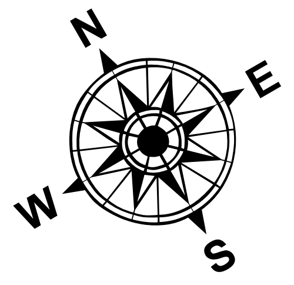
- ‑‑‑ Federal Navigation Channel
- ┄┄ Cable or Pipeline area
- ‑‑‑ Channel Center Line
- — Marine Infrastructure*
- — Contour Line
- ✳ Fixed Navigation Aids
- ⊗ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
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Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
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Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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NEW ENGLAND DISTRICT

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CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM, CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 30 of 34

Revision Number: 5.24.09.03-5.24.09.03

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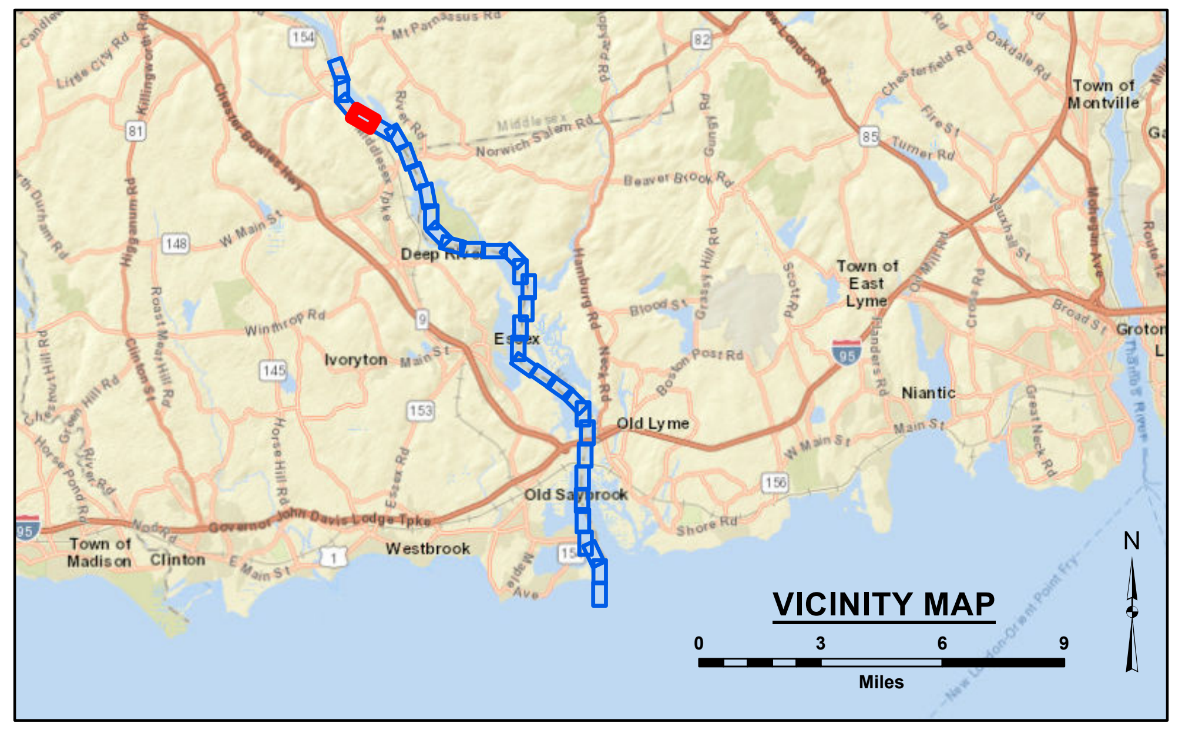
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM,
CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: **CT_06_CRB_20250702_CS_040**

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 31 of 34

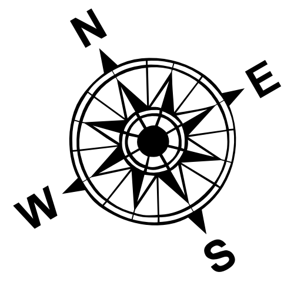


LEGEND

--- Federal Navigation Channel	✳ Fixed Navigation Aids
······ Cable or Pipeline area	☒ Obstruction Point
--- Channel Center Line	! Red Navigation Buoy
— Marine Infrastructure*	! Green Navigation Buoy
— Contour Line	🟥 Shoaling Area
	● Shoalest Sounding**

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
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Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
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Sonar System: R2 Sonic 2024 (Multibeam Sonar)
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Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
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Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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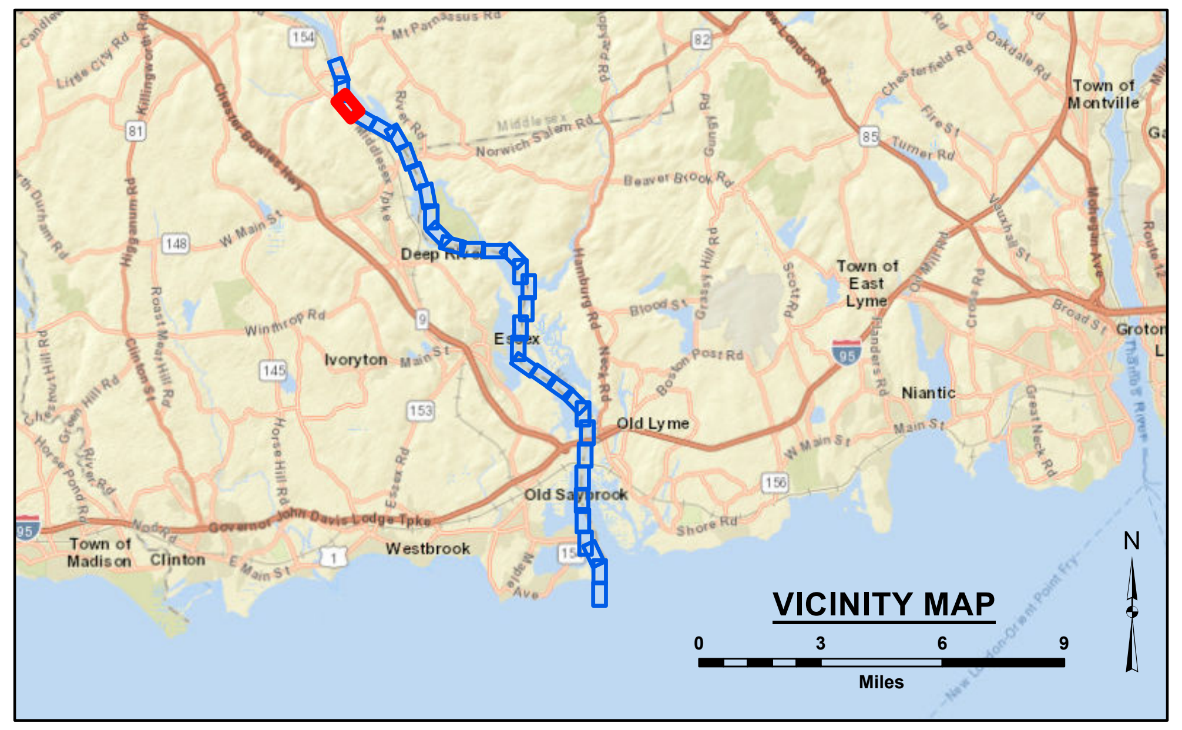
Project Remarks
Marine infrastructure surveyed with Lidar 9/11/2023.

Water Level Information
Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing a Hypack KTD file. The corrections in the project area range from 2.12 feet to 1.26 feet from Saybrook Outer Shoal to Eddy Rock Shoal. 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).

Revision Number: 5.24.09.03-5.24.09.03



LEGEND

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

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet

Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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US Army Corps
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: AJO
CHECKED BY: ZSM
ISSUE DATE: 7/18/2025
MAP DOCUMENT: CT_06_CRB_20250702_CS_040
SIZE: ANSI D

CONNECTICUT RIVER, BELOW HARTFORD SAYBROOK TO HADDAM, CONNECTICUT CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam

Sheet 32 of 34

Revision Number: 5.24.09.03-5.24.09.03

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

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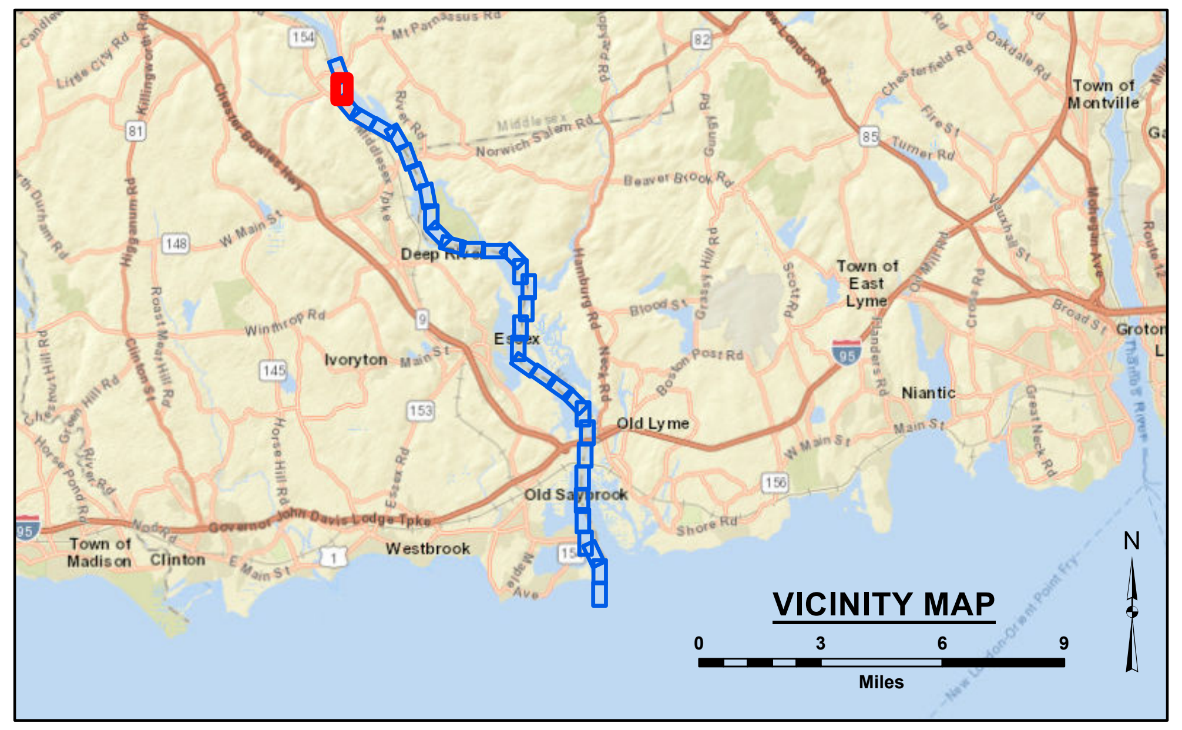
CONNECTICUT RIVER, BELOW HARTFORD
SAYBROOK TO HADDAM, CONNECTICUT
CONDITION SURVEY

15-FOOT CHANNEL

File Name: CT_06_CRB_20250702_CS_040

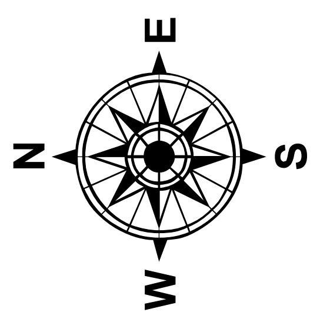


LEGEND

- —·— Federal Navigation Channel
- ······ Cable or Pipeline area
- - - Channel Center Line
- —— Marine Infrastructure*
- —— Contour Line
- ✳ Fixed Navigation Aids
- ☒ Obstruction Point
- ! Red Navigation Buoy
- ! Green Navigation Buoy
- 🟥 Shoaling Area
- ● Shoalest Sounding**

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

GRAPHIC SCALE
100 0 100 200
1" = 100' Feet



Notes:
Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS TIDES
GPS_System: Applanix POS MV (RTK)
RTK Base Station: MTS Smartnet Imax
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4985
Survey No.: CT_06_CRB_20250702_CS_040
Reference NOAA Chart No.: US5CT1ES/1FR/1FS/1GQ/1GR

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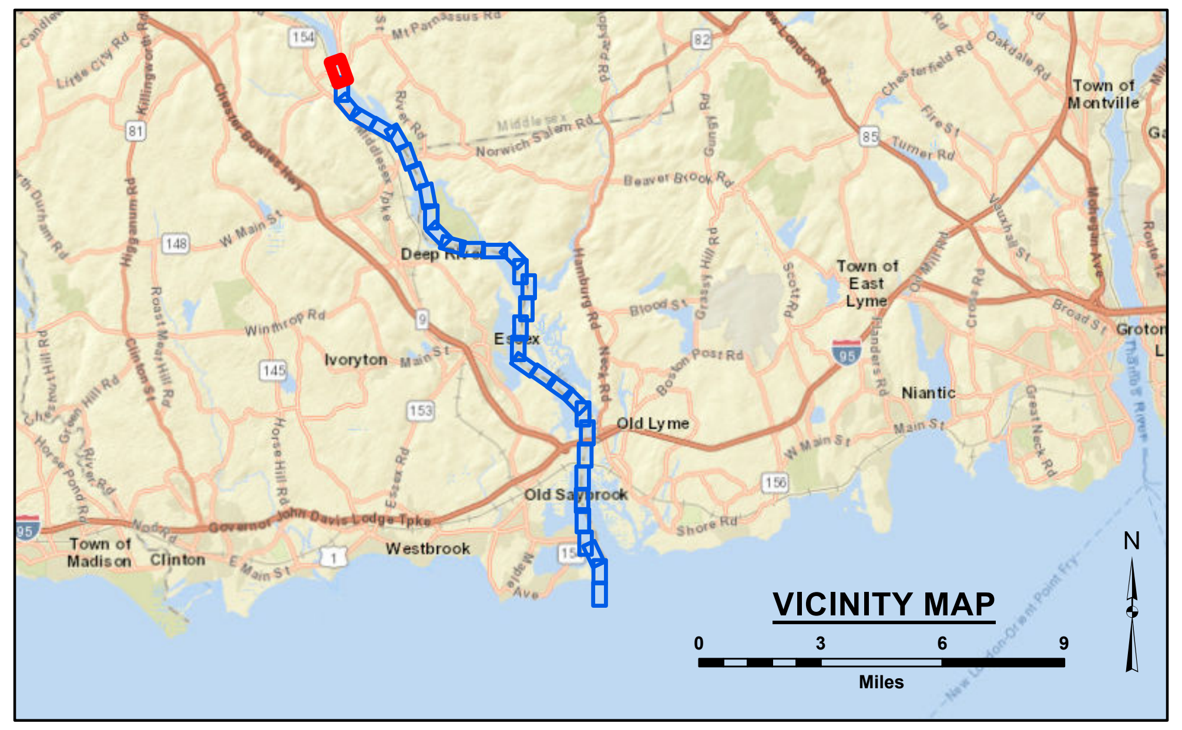
SHEET IDENTIFICATION
Connecticut River
Saybrook to Haddam
Sheet 33 of 34



VICINITY MAP

LEGEND

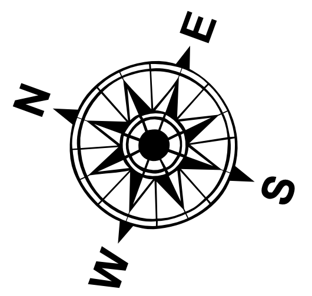
—·—	Federal Navigation Channel	✳	Fixed Navigation Aids
······	Cable or Pipeline area	⊠	Obstruction Point
— —	Channel Center Line	!	Red Navigation Buoy
—	Marine Infrastructure*	!	Green Navigation Buoy
—	Contour Line	🟥	Shoaling Area
		●	Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200

1" = 100' Feet



Notes:

Horizontal Datum: Connecticut, CT-0600 NAD 83
Distance Units: U.S. Survey Feet
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