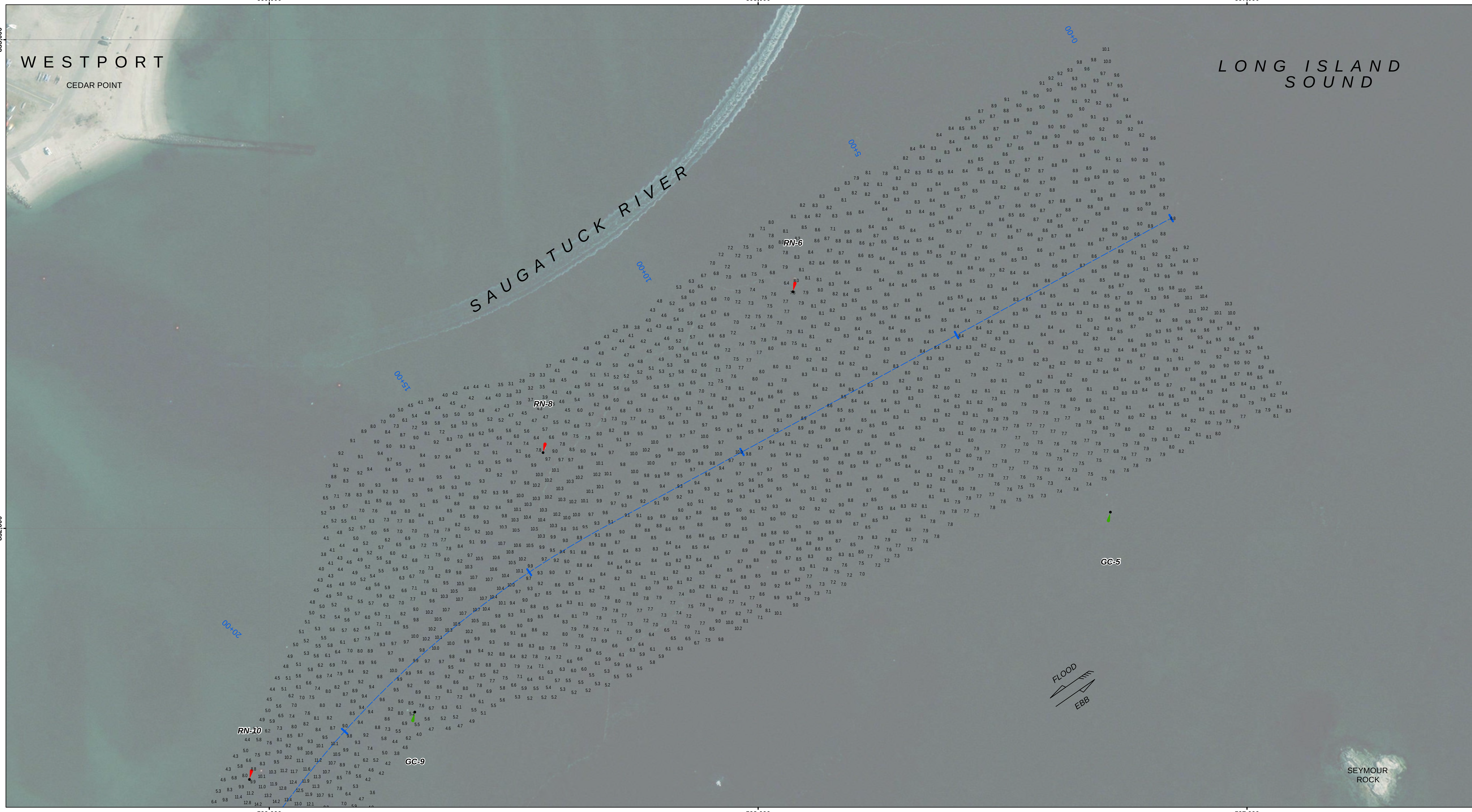
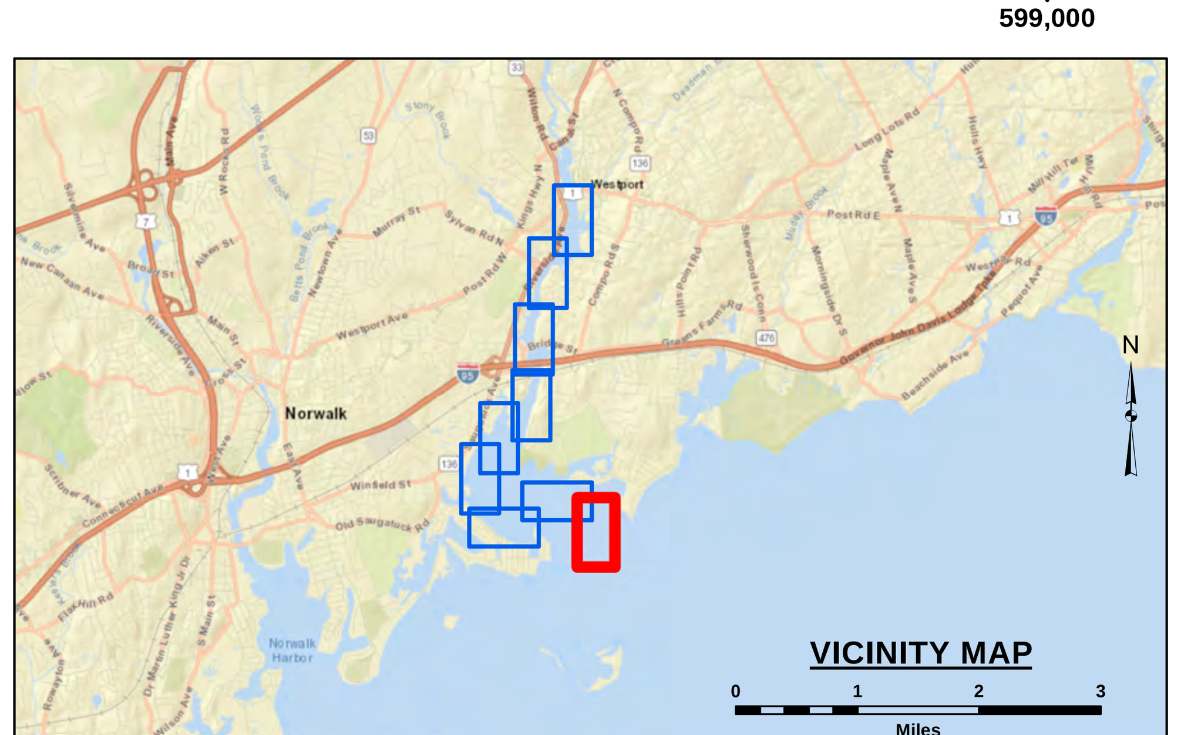




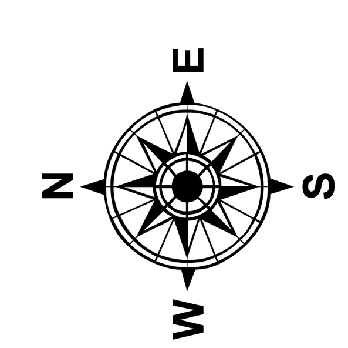
LEGEND

- 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
- 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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

General Notes

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project range from 3.87 feet to 3.89 feet. These corrections are referenced from NOAA's V-Datum Model Version 4.1, CT/RI Region Version 3.4, in the vicinity of Westport Harbor and Saugatuck River, Westport, Connecticut. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: MJV
CHECKED BY: ZSM
ISSUE DATE: 4/14/2021
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: CT_31_WES_20210326_CS_005

WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

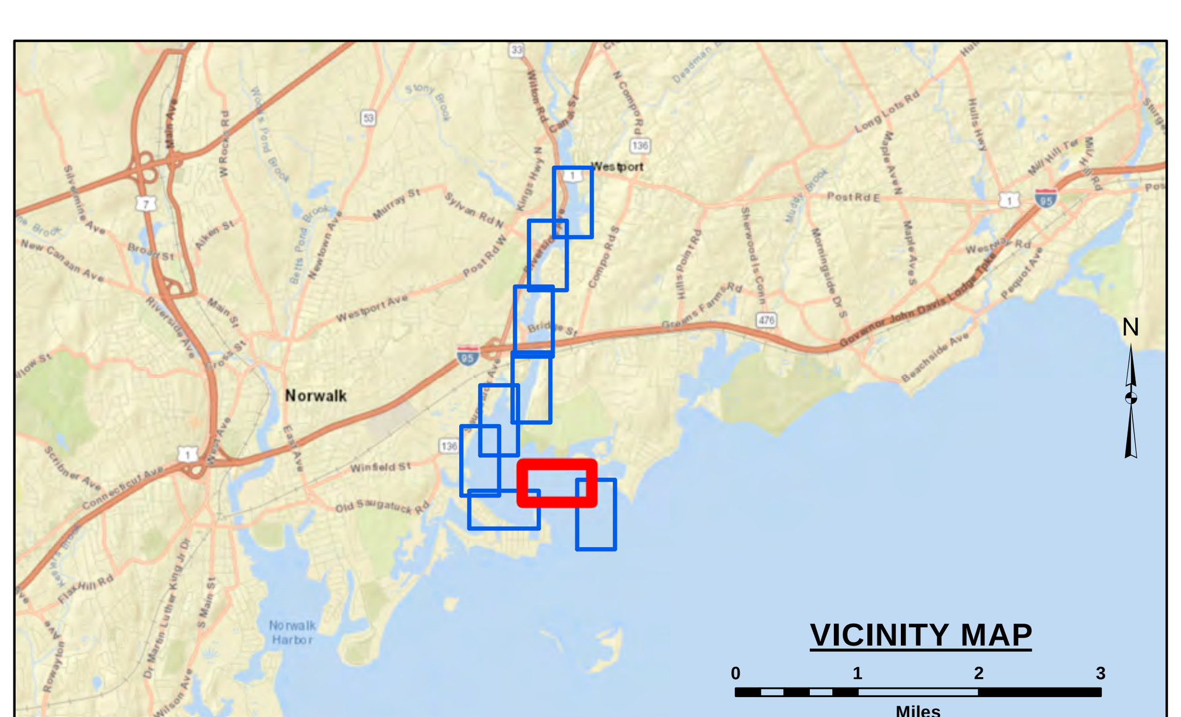
File Name: **CT_31_WES_20210326_CS_005**

SHEET IDENTIFICATION

Westport Harbor and Saugatuck River

Sheet 1 of 9

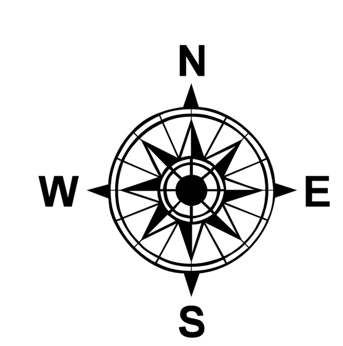
Revison Number: 4.2-20200420



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
- 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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. Interim plot of data, channel limits under review.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project range from 3.87 feet to 3.89 feet. These corrections are referenced from NOAA's V-Datum Model Version 4.1, CT/RI Region Version 3.4, in the vicinity of Westport Harbor and Saugatuck River, Westport, Connecticut. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: ZSM
ISSUE DATE: 4/14/2021
SIZE: ANSI D
MAP DOCUMENT: CT_31_WES_20210326_CS_005

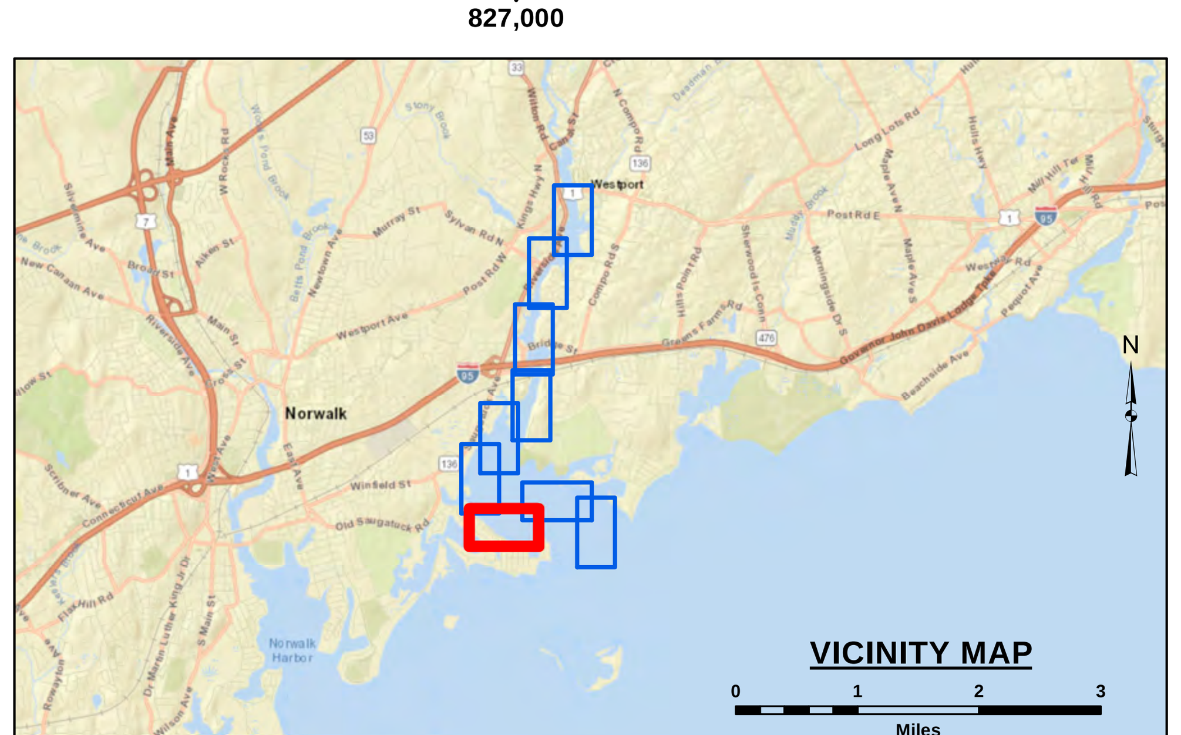
WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 2 of 9

Revison Number: 4.2-20200420



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
- Shoaling Area
- Shoalest Sounding**

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

N W E S

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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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

General Notes

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project range from 3.87 feet to 3.89 feet. These corrections are referenced from NOAA's V-Datum Model Version 4.1, CT/RI Region Version 3.4, in the vicinity of Westport Harbor and Saugatuck River, Westport, Connecticut. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

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District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

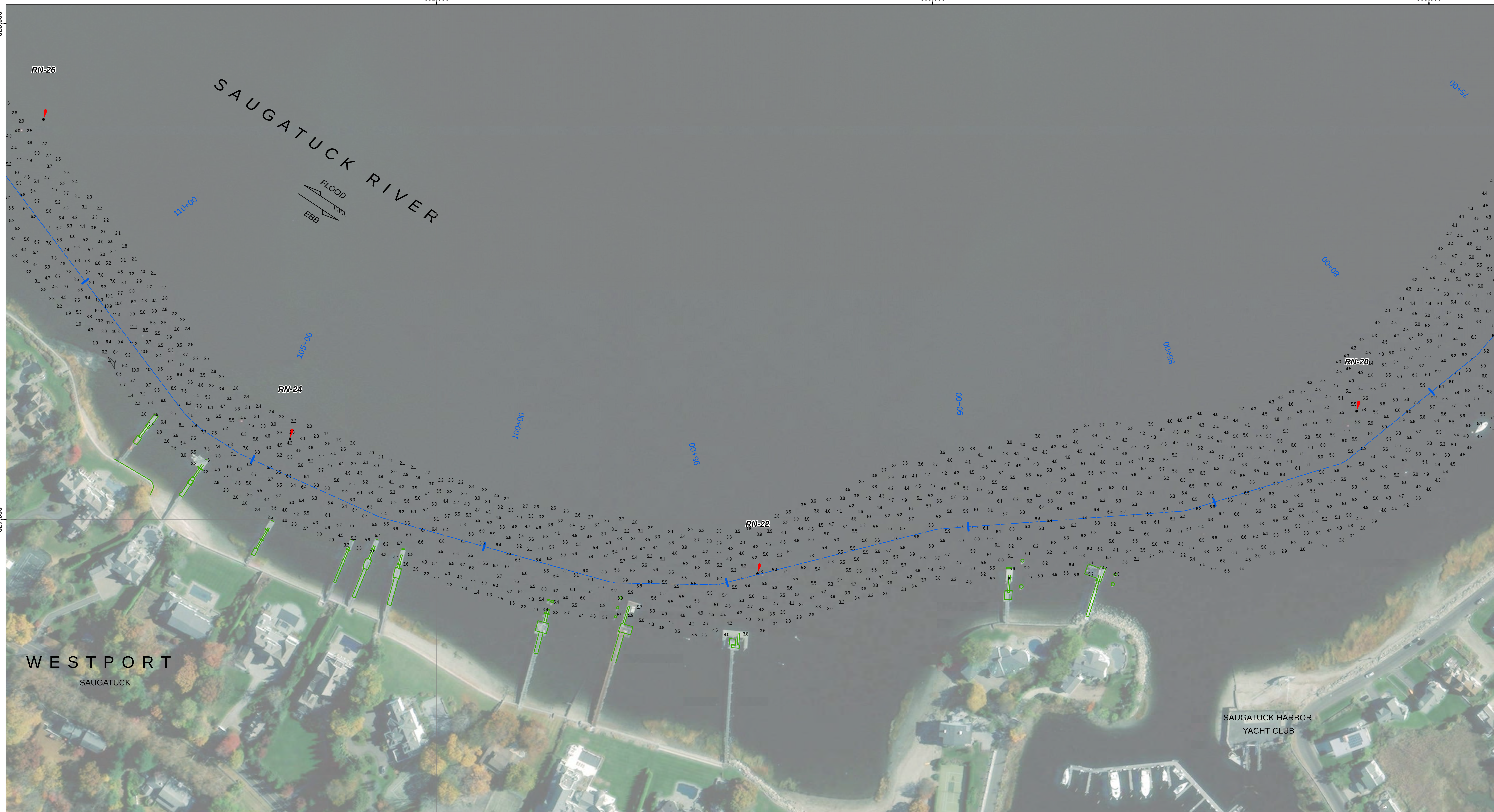
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: ZSM
SIZE: ANSI D
MAP DOCUMENT: CT_31_WES_20210326_CS_005
ISSUE DATE: 4/14/2021

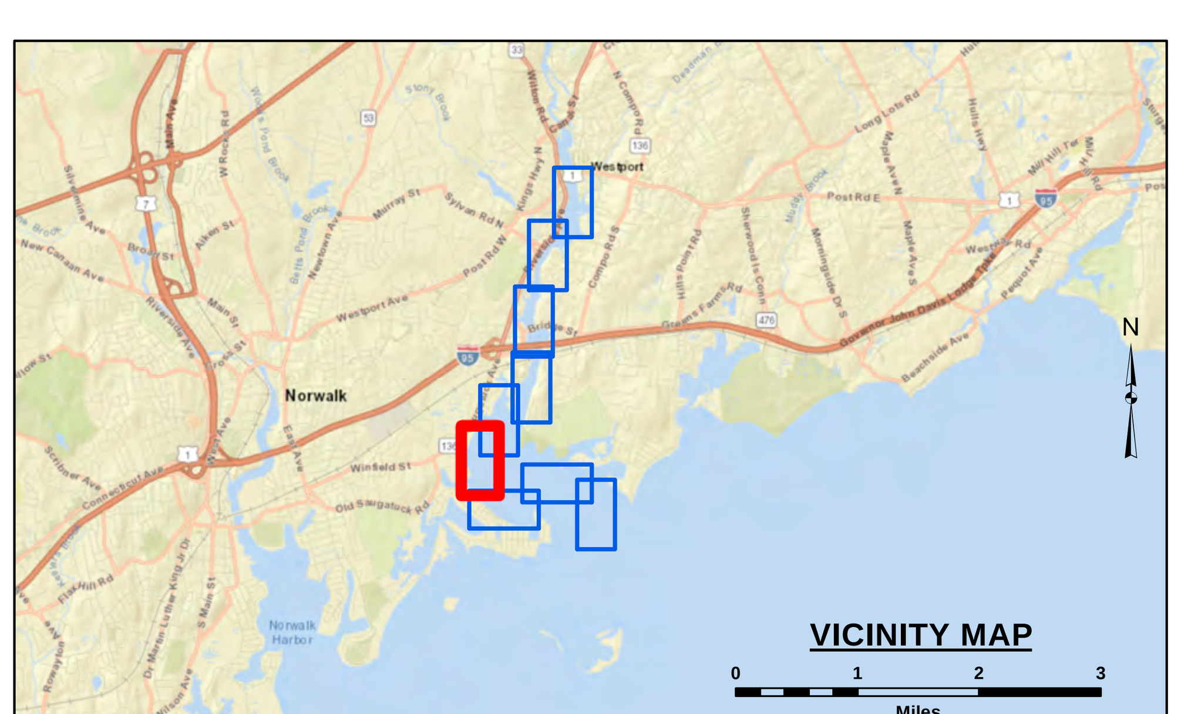
WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 3 of 9





LEGEND

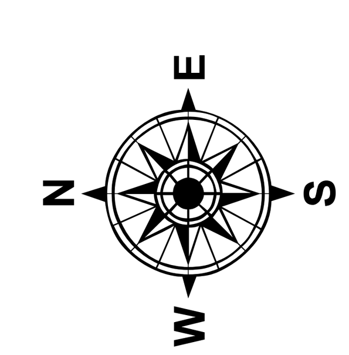
- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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

General Notes

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project range from 3.87 feet to 3.89 feet. These corrections are referenced from NOAA's V-Datum Model Version 4.1, CT/RI Region Version 3.4, in the vicinity of Westport Harbor and Saugatuck River, Westport, Connecticut. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: MJV
CHECKED BY: ZSM
ISSUE DATE: 4/14/2021
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_31_WES_20210326_CS_005
SIZE: ANSI D

WESTPORT HARBOR AND SAUGATUCK RIVER
WESTPORT, CONNECTICUT
CONDITION SURVEY

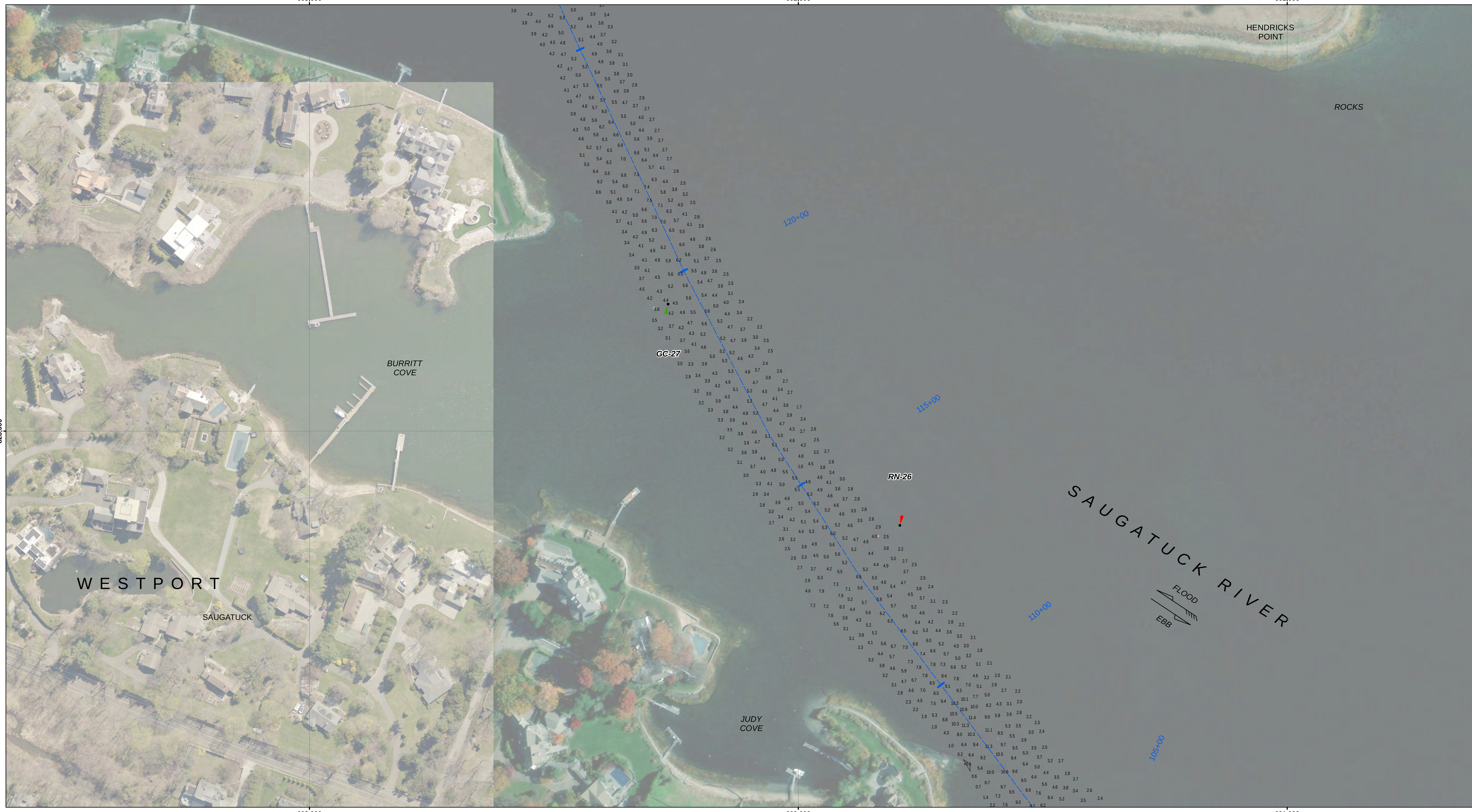
4-FOOT CHANNEL

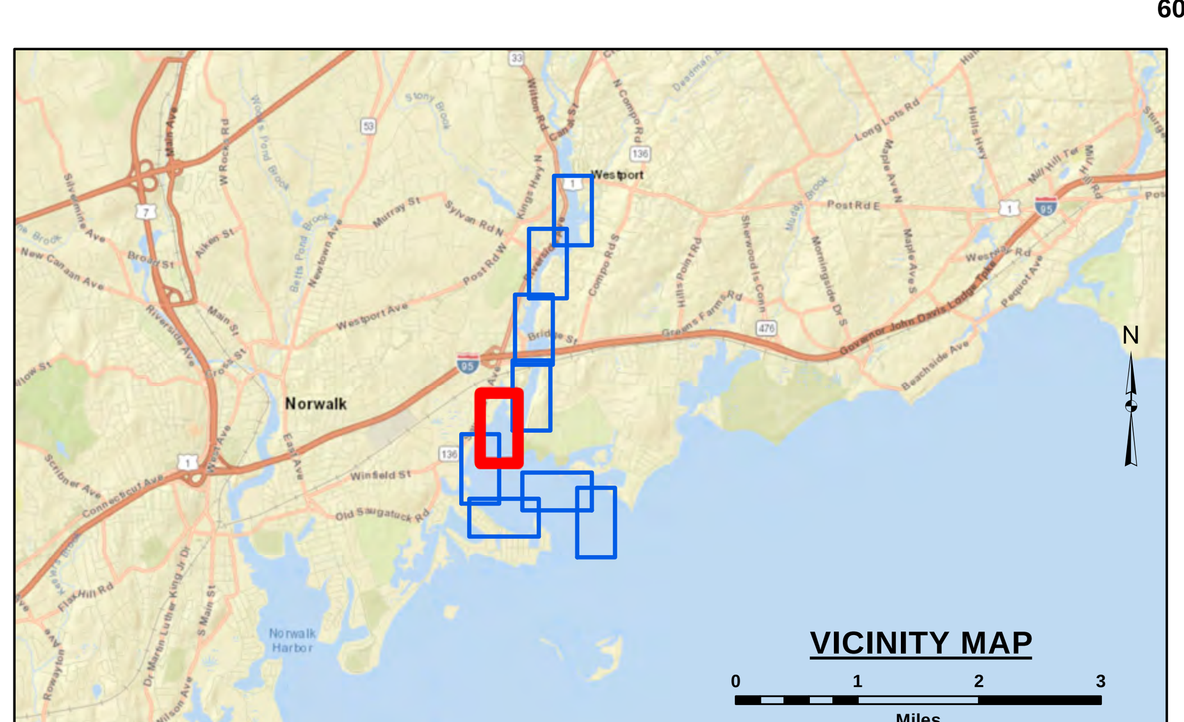
File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION

Westport Harbor and Saugatuck River

Revision Number: 4.2-20200420





LEGEND

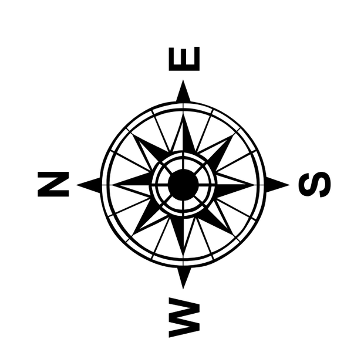
- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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

General Notes

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: ZSM

ISSUE DATE: 4/14/2021
SIZE: ANSI D
MAP DOCUMENT: CT_31_WES_20210326_CS_005

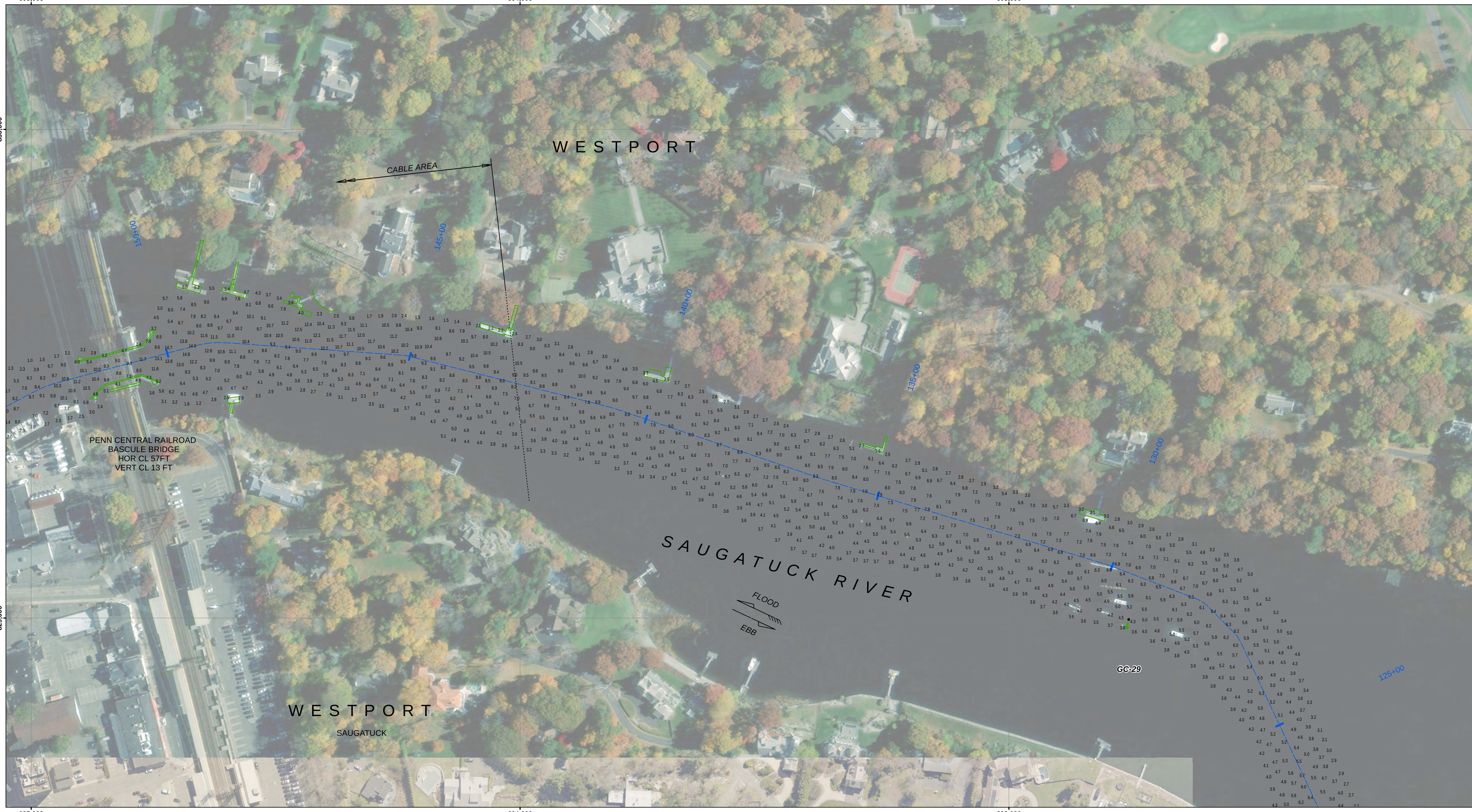
WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River

Revision Number: 4.2-20200420



US Army Corps of Engineers District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

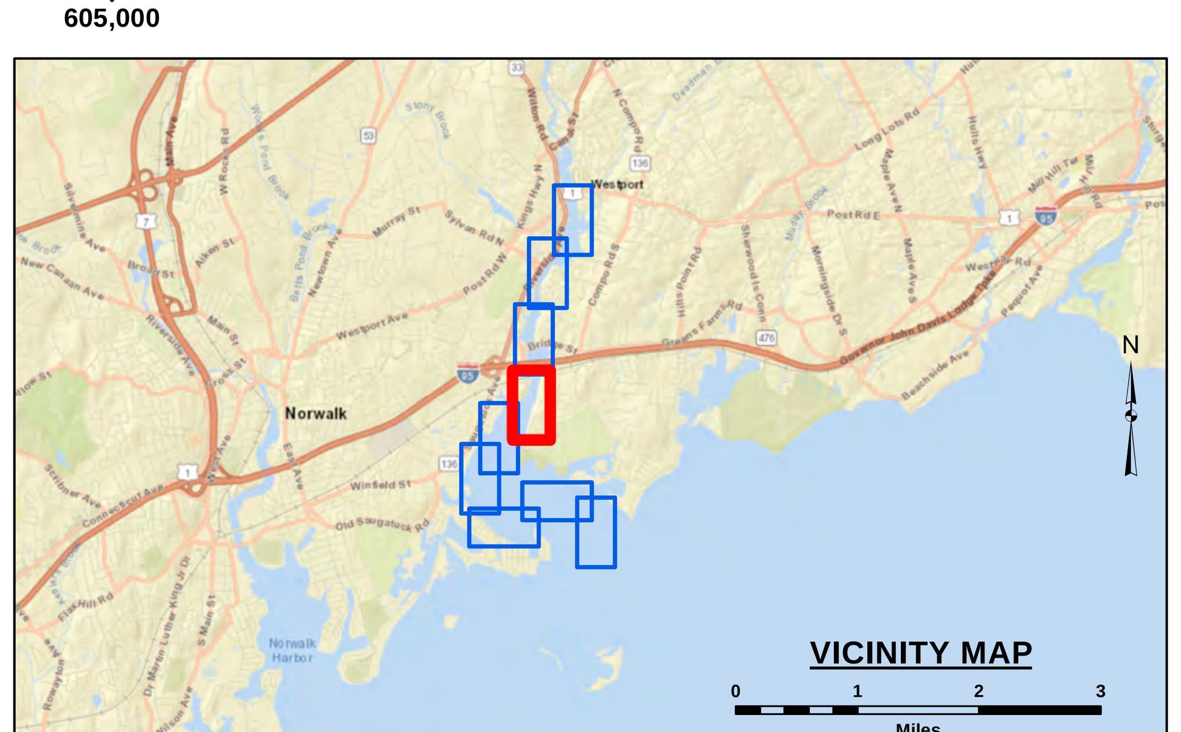
SUBMITTED BY: Zachary McAvoy	SURVEYED BY: MJV
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D	MAP DOCUMENT: CT_31_WES_20210326_CS_005	ISSUE DATE: 4/14/2021

WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 6 of 9

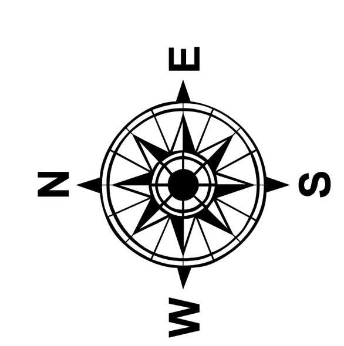


LEGEND

- 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
- 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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General Notes
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Project Remarks
Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information
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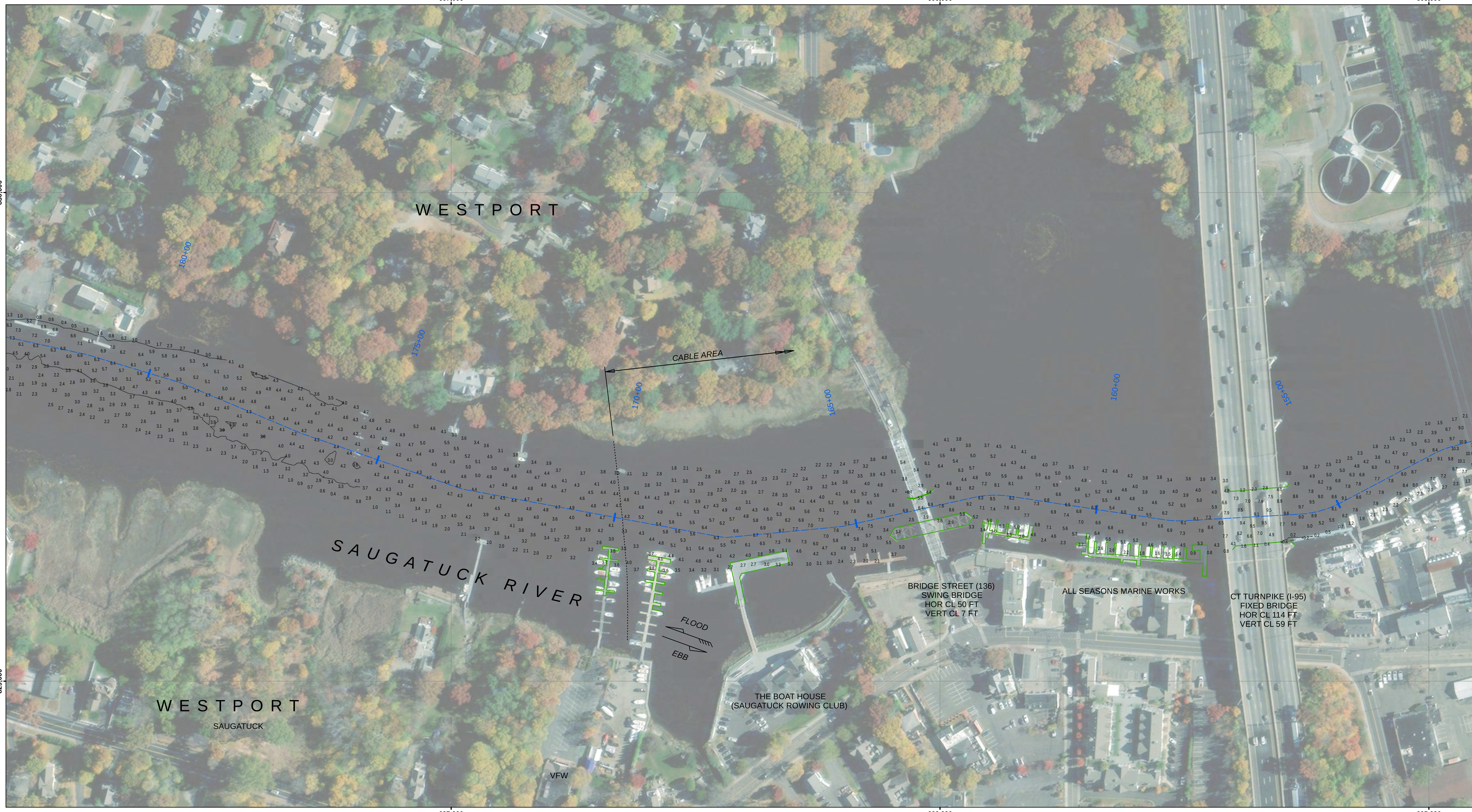
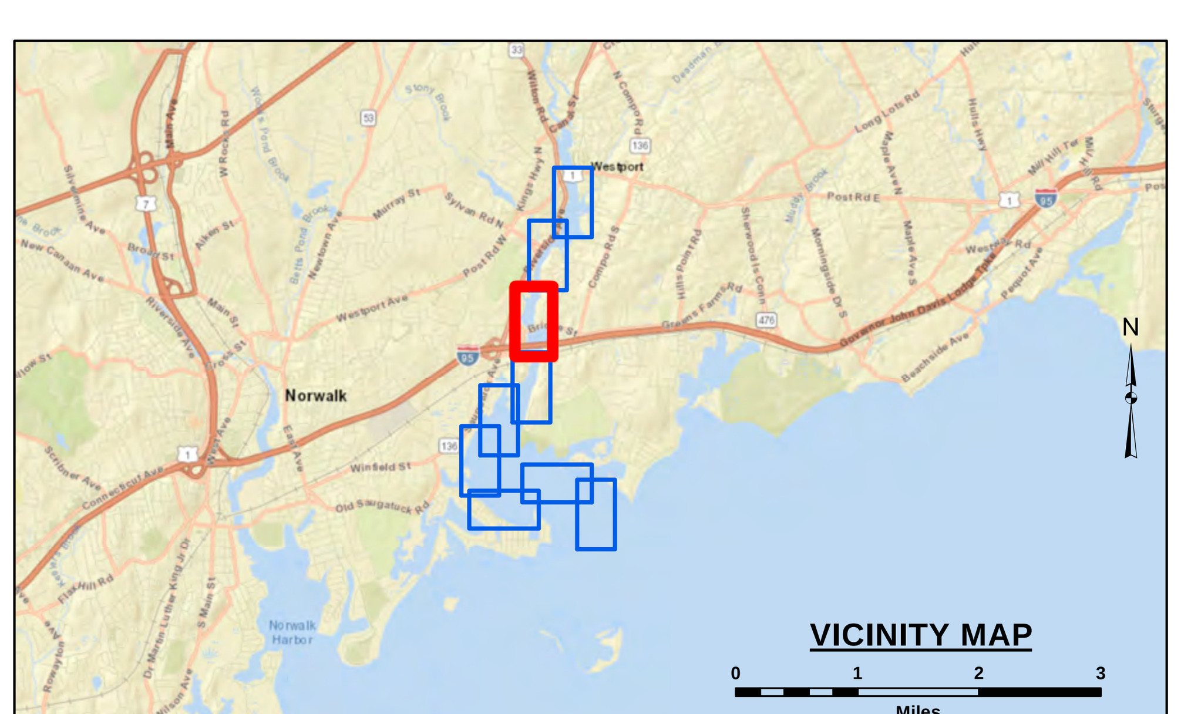
Revision Number: 4.2-20200420





LEGEND

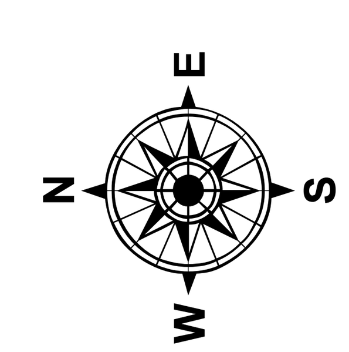
- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Obstruction Point
- Fixed Navigation Aids
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

** 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: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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

General Notes

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project range from 3.87 feet to 3.89 feet. These corrections are referenced from NOAA's V-Datum Model Version 4.1, CT/RI Region Version 3.4, in the vicinity of Westport Harbor and Saugatuck River, Westport, Connecticut. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

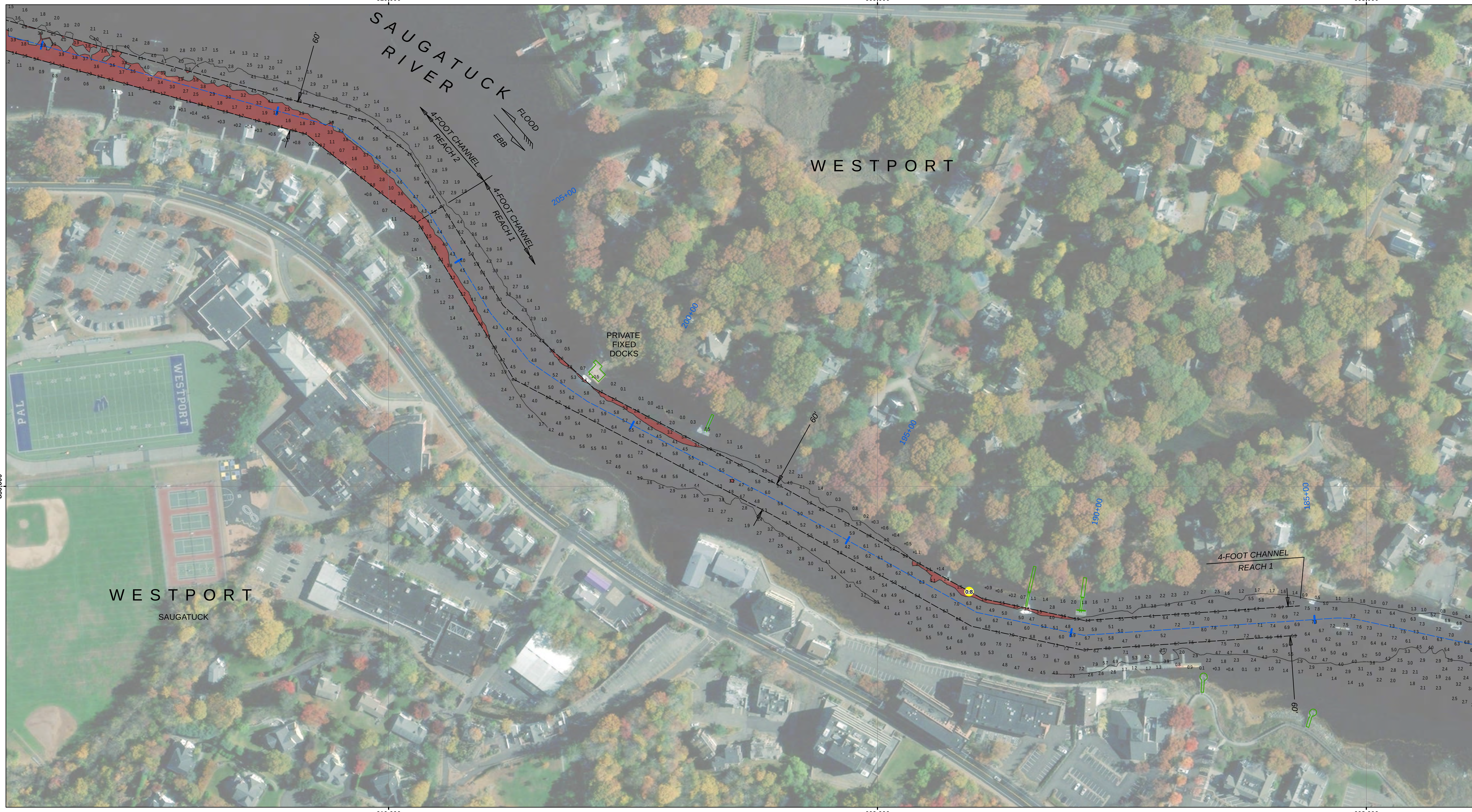
SURVEYED BY: MJV
CHECKED BY: ZSM
ISSUE DATE: 4/14/2021
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_31_WES_20210326_CS_005
SIZE: ANSI D

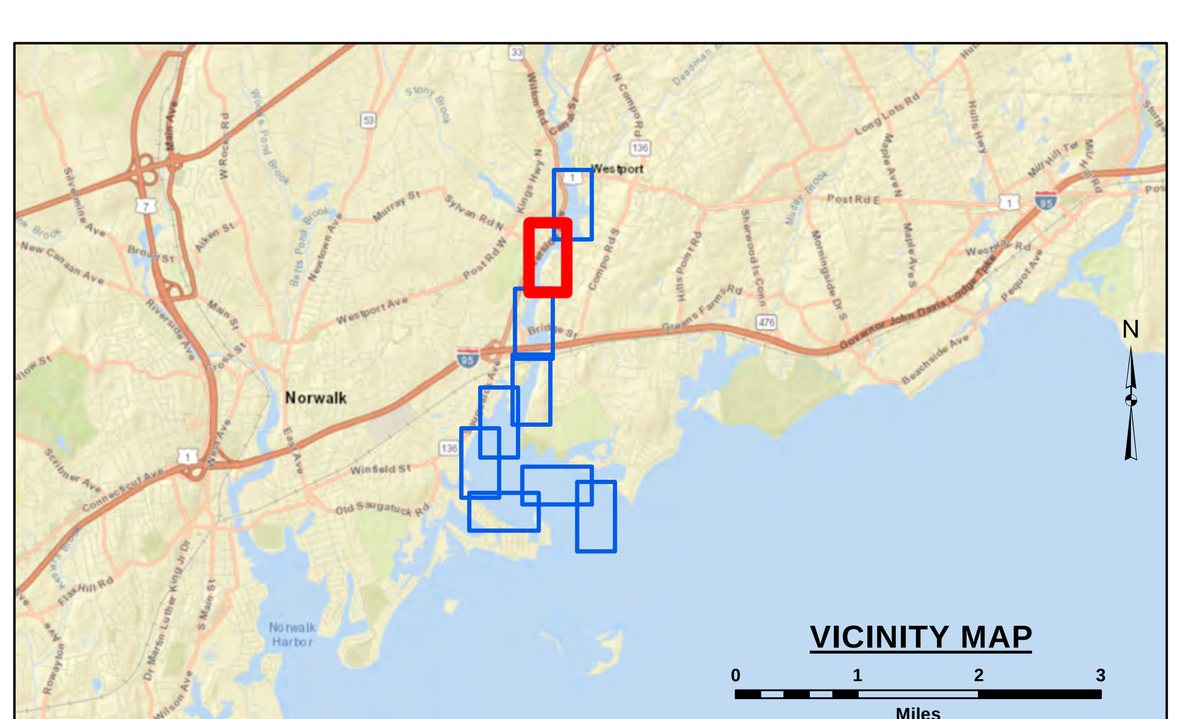
WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 7 of 9





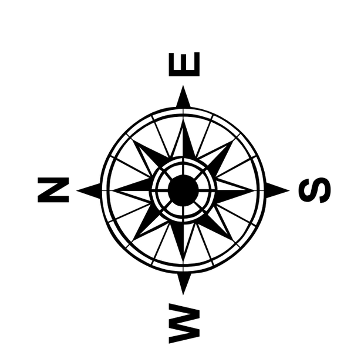
LEGEND

- 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
- 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: Trimble SPS 855 (RTK)
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Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4225
Survey No.: CT_31_WES_20210326_CS_005
Reference NOAA Chart No.: 12368

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Project Remarks

Marine infrastructure surveyed with Lidar. Interim plot of data, channel limits under review.

Water Level Information

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District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: MJV
CHECKED BY: ZSM
ISSUE DATE: 4/14/2021
SUBMITTED BY: Zachary McAvoy
APPROVED BY: NAE Survey
MAP DOCUMENT: CT_31_WES_20210326_CS_005
SIZE: ANSI D

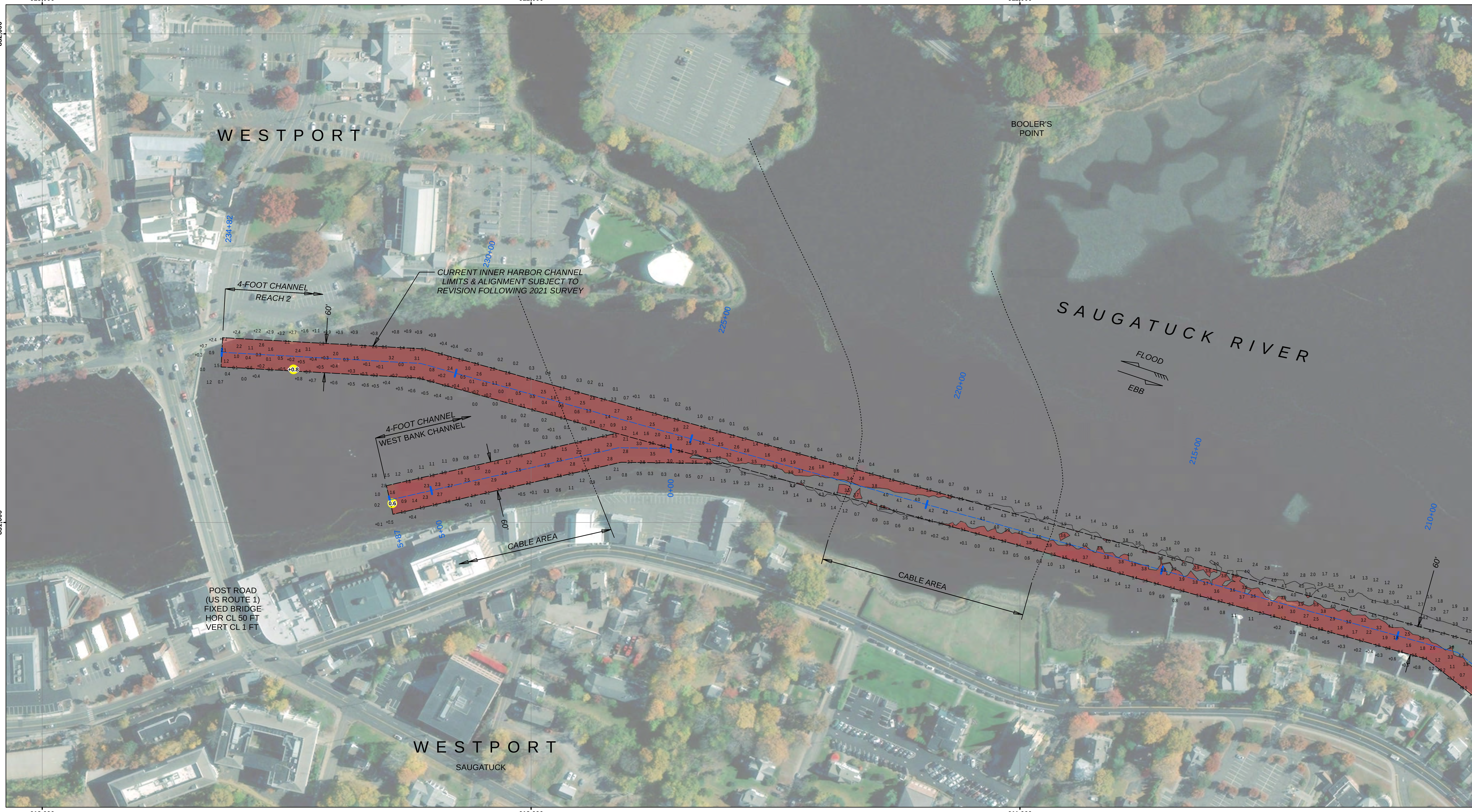
WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

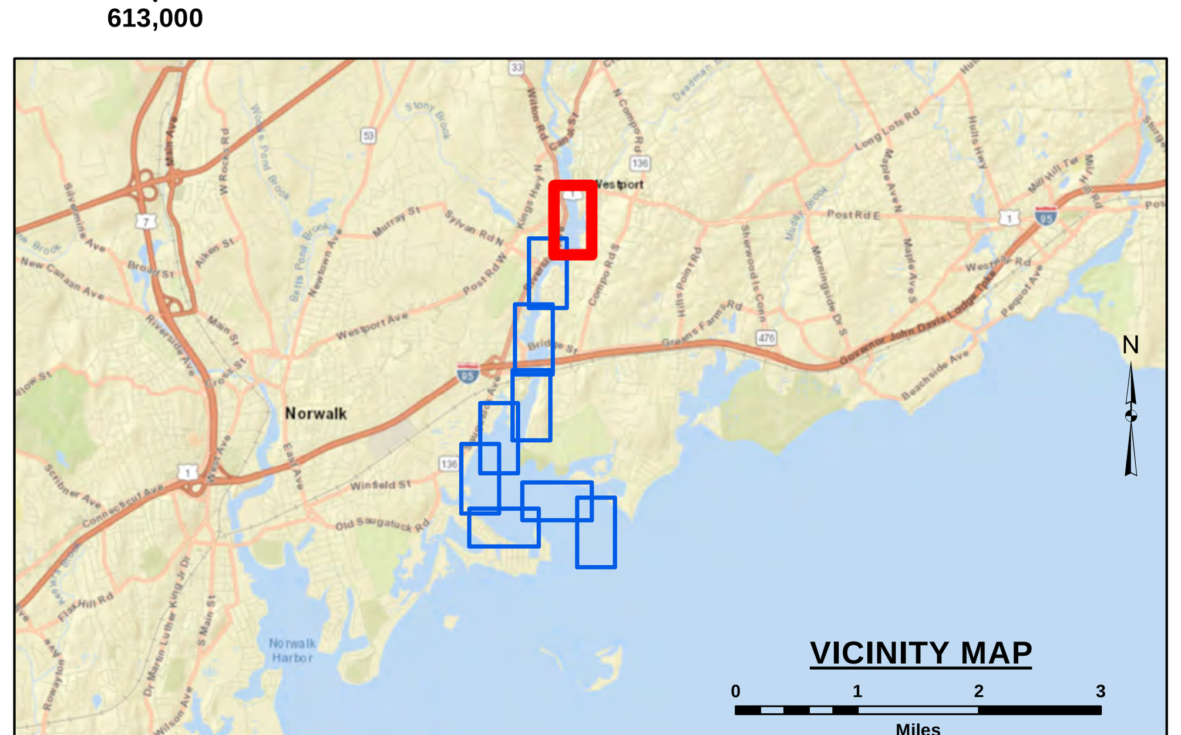
4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 8 of 9

Revison Number: 4.2-20200420





LEGEND

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- Channel Center Line
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- Contour Line
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- Shoalest Sounding**

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

GRAPHIC SCALE

100 0 100 200 Feet

1" = 100'

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
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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Zachary McAvoy	SURVEYED BY: MJV
APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D / MAP DOCUMENT: CT_31_WES_20210326_CS_005	ISSUE DATE: 4/14/2021

WESTPORT HARBOR AND SAUGATUCK RIVER WESTPORT, CONNECTICUT CONDITION SURVEY

4-FOOT CHANNEL

File Name: CT_31_WES_20210326_CS_005

SHEET IDENTIFICATION
Westport Harbor and Saugatuck River
Sheet 9 of 9

Revision Number: 4.2-20200420