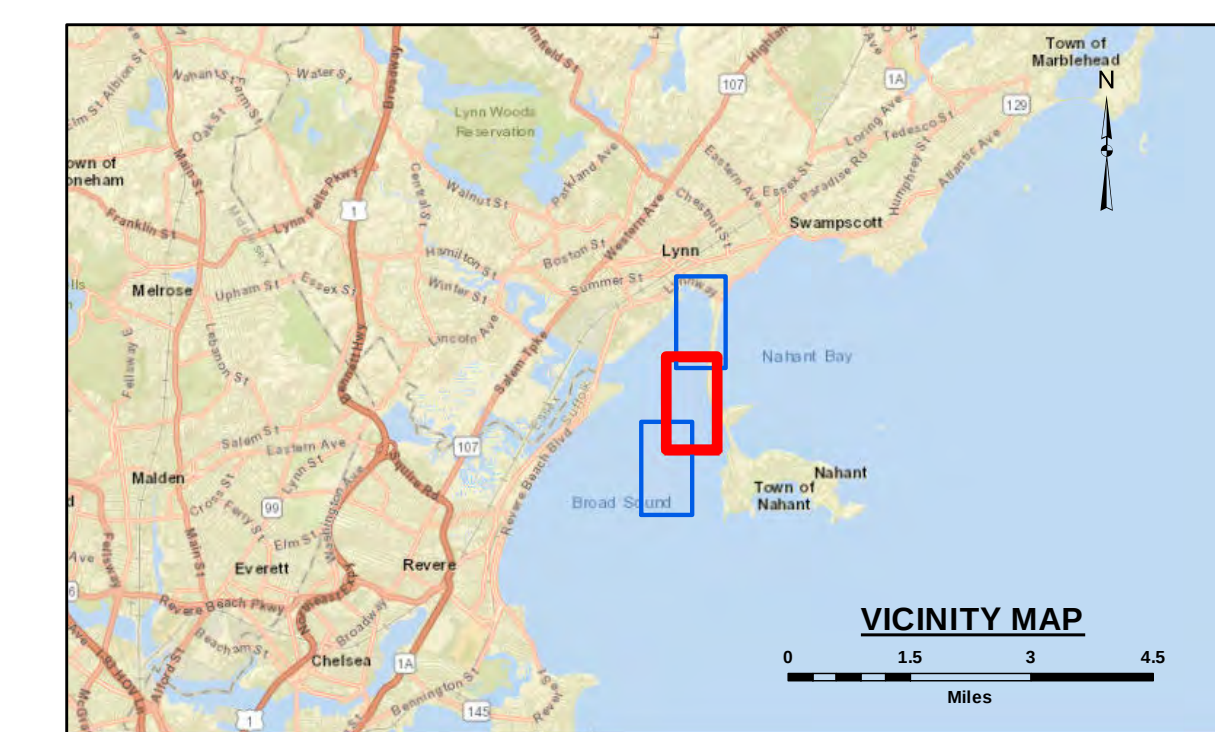
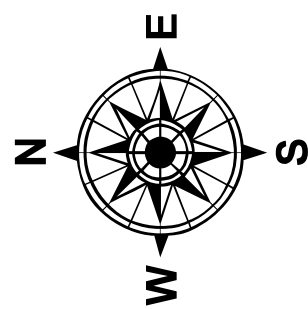




---	Federal Navigation Channel		Fixed Navigation Aids
---	Channel Center Line		Red Navigation Buoy
.....	Cable or Pipeline Area		Green Navigation Buoy
—	Contour Line		Yellow Navigation Buoy
	Obstruction Point		Shoaling Area
			Shoalest Sounding**

GRAPHIC SCALE

200 0 200 400
1" = 200' Feet



Horizontal Datum: Mass Mainland, MA-2001 NAD 83
 Vertical Datum: U.S. Survey Feet
 Vertical Datum: MLLW
 Depth Units: U.S. Survey Feet
 Vessel Name: Keegan
 Sonar System: Reson T50 (Multibeam Sonar)
 Sounding Frequency: 400 kHz
 Survey Method: RTK GPS TIDES
 GPS System: Trimble GPS 855 (RTK)
 RTK Base Station: Station HRBMSTR (2017)
 Software Used: Hypack
 Sounding Sort Distance: 40'
 Field Books: R&H 4340
 Survey No.: MA_12_LYN_20210706_CS_030
 Reference NOAA Chart No.: 13275

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.

The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2021. The sounding information shown on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the soundings at that time. The position of the vessel conducting the survey is indicated by the vessel icon. The soundings are provided for information only and should not be used for navigation. Orthoregistry is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other features. Temporal changes may have occurred since this dataset was collected and the information shown may not reflect the current state of the shoreline. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

None

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.47 feet. This correction was established from Station HRBMSTR (2017) in the vicinity of NOAA Bench Marks at Lynn, Massachusetts (Station ID 8443187, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.



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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

	SURVEYED BY:
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APPROVED BY: NAE Survey	CHECKED BY:
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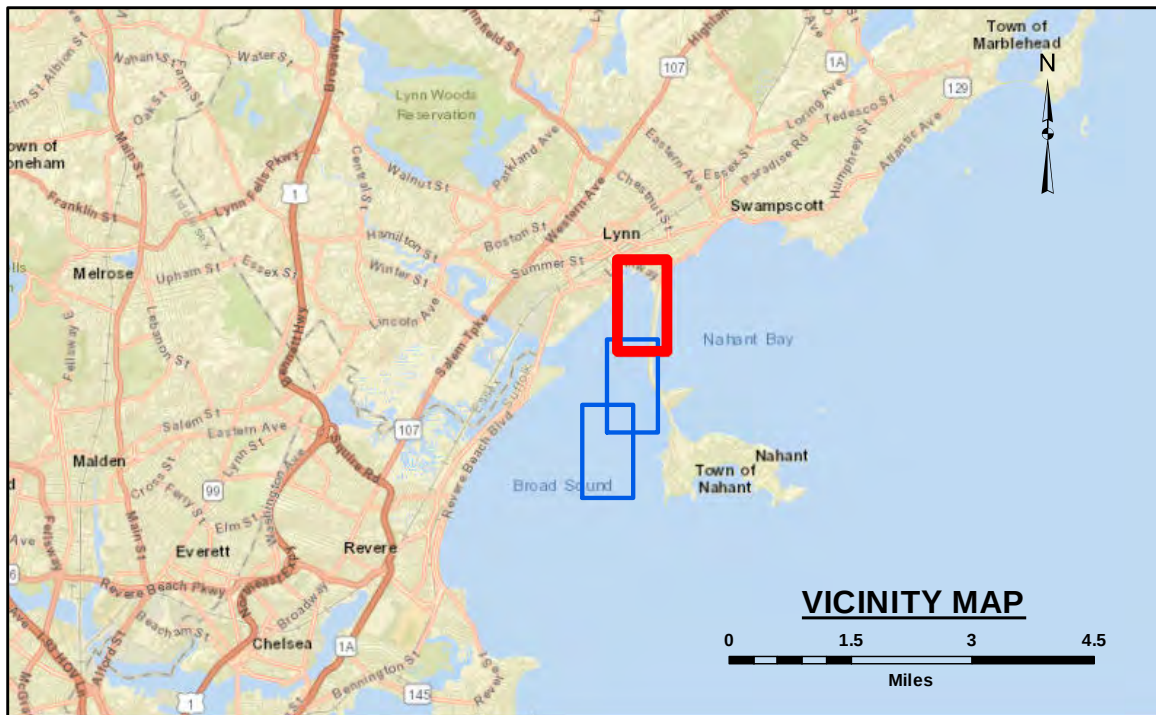
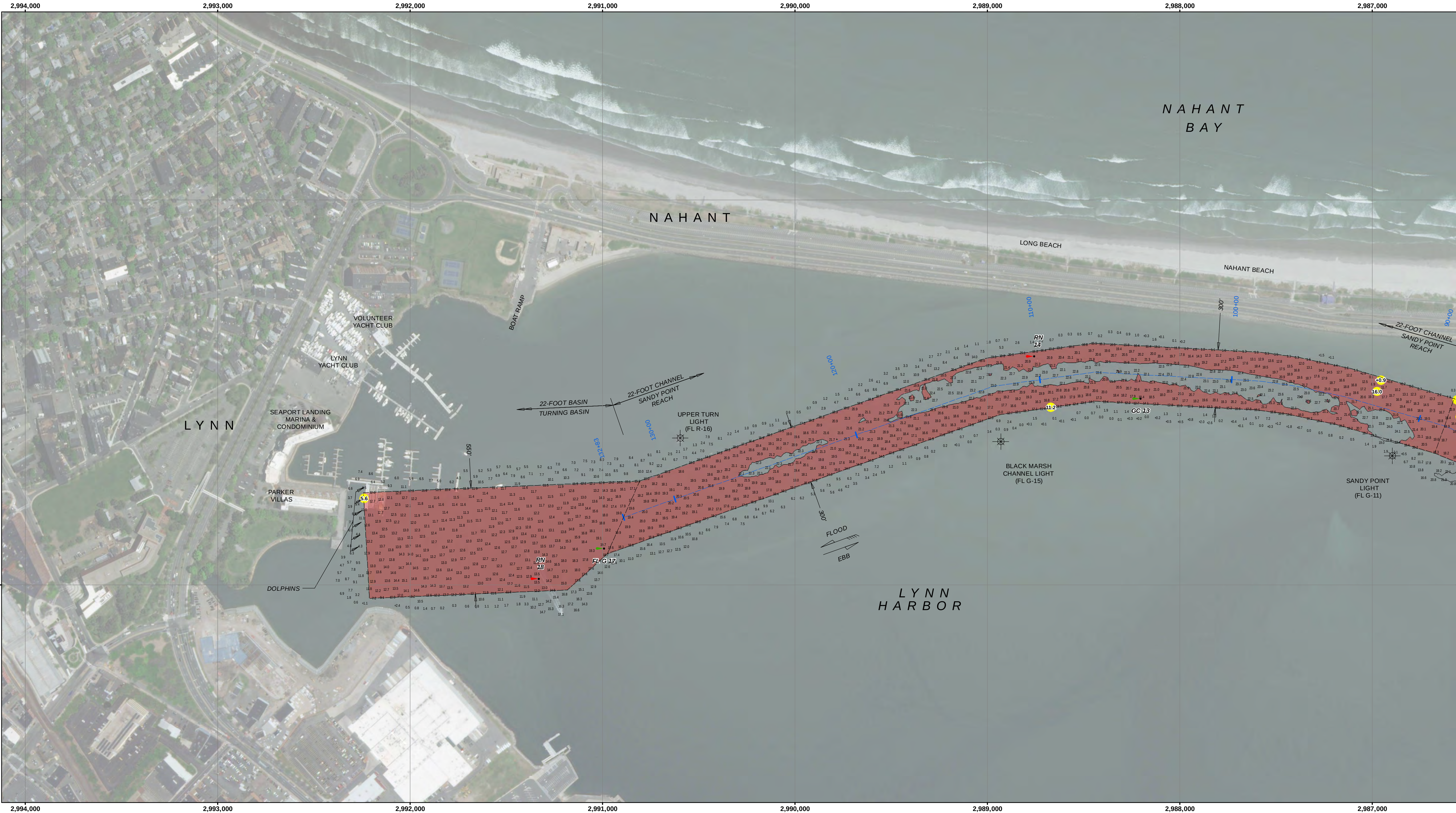
SIZE:	MAP DOCUMENT: MA 12_LYN_20210706_CS_030	ISSUE DATE: 8/16/2021
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22-FOOT CHANNEL AND TURNING BASIN

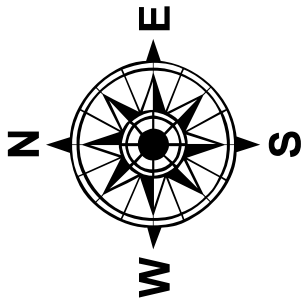
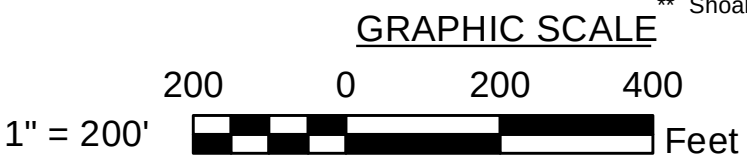
File Name: MA_12_LYN_20210706_CS_030

**SHEET
IDENTIFICATION**
Lynn Harbor

Sheet 2 of 3



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



Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Keegan
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 400 kHz
Survey Method: RTK GPS TIDES
RTK Base Station: Station HRBMSTR (2017)
Software Used: Hypack
Sounding Sort Distance: 40'
Field Books: R&H 4340
Survey No.: MA_12_LYN_20210706_CS_030
Reference NOAA Chart No.: 13275

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

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during July 2021. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthomagery is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other features. Temporal changes may have occurred since this dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 5.47 feet. This correction was established from Station HRBMSTR (2017) in the vicinity of NOAA Bench Marks at Lynn, Massachusetts (Station ID 8443187, 04/21/2003). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.



DISCLAIMER
The United States Government funders these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The use of the data for any other purpose is at the user's risk. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided.

Access Constraints: The United States Government funders these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The use of the data for any other purpose is at the user's risk. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided. The user is responsible for the results of any use of the data for any purpose other than that for which they were provided.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT	SURVEYED BY: MJO	CHECKED BY: ZSM	ISSUE DATE: 8/16/2021
	SUBMITTED BY: Zachary McAvoy	APPROVED BY: NAE Survey	MAP DOCUMENT: MA_12_LYN_20210706_CS_030
	SIZE: A1S1D		

LYNN HARBOR LYNN, MASSACHUSETTS CONDITION SURVEY	22-FOOT CHANNEL AND TURNING BASIN File Name: MA_12_LYN_20210706_CS_030
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SHEET IDENTIFICATION Lynn Harbor Sheet 3 of 3
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