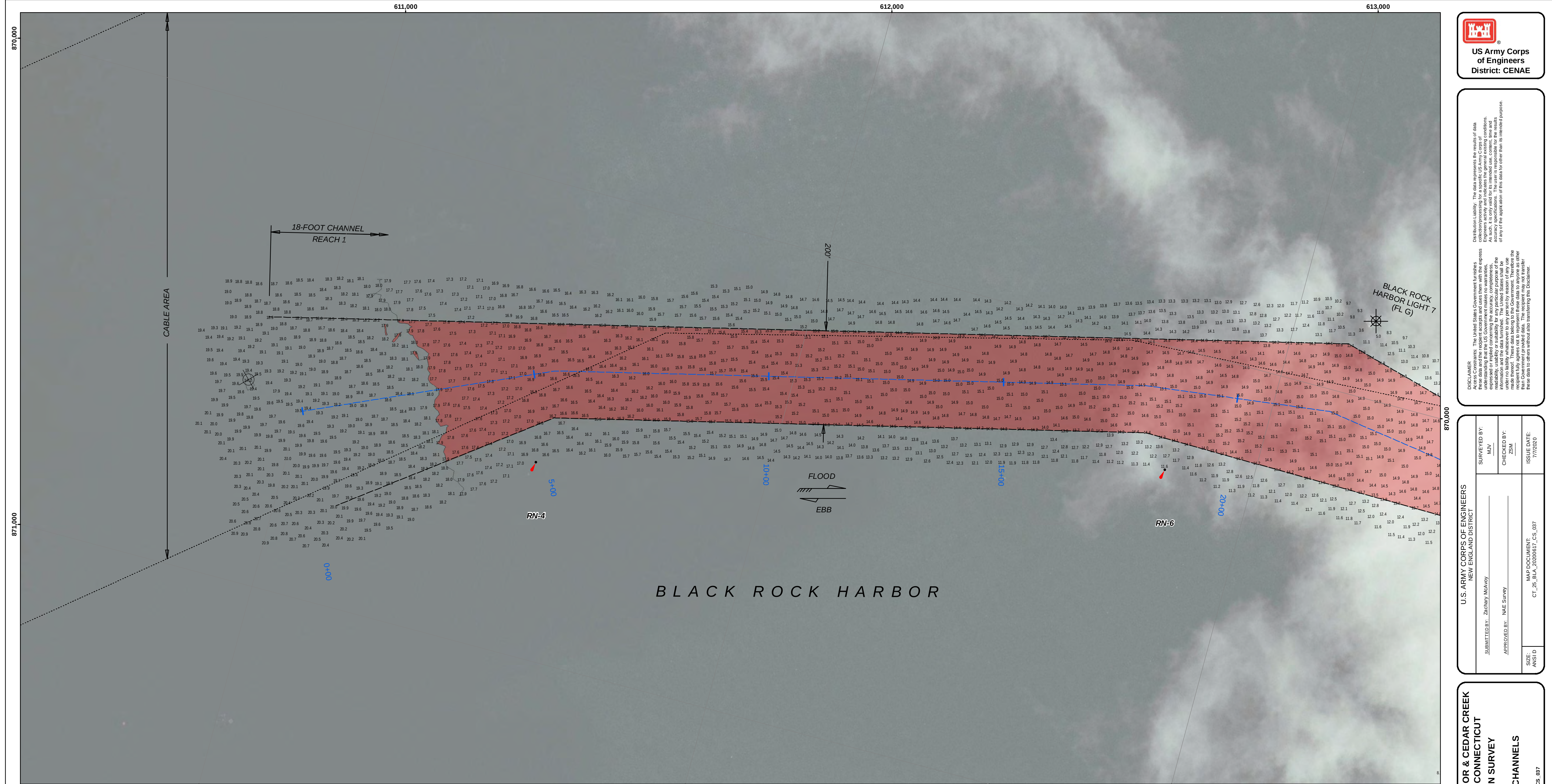




LEGEND

--- Federal Navigation Channel

--- Channel Center Line

..... Cable or Pipe Area

— Contour Line

— Marine Infrastructure*

✠ Fixed Navigation Aids

✠ Obstruction Point *

📍 Red Navigation Buoy

📍 Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding**

1" = 100'

0 100 0 100 200 Feet

GRAPHIC SCALE

** 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: Trimble SPS 855 (RTK)
RTK Base Station: Sta. BM 7373 B 2003 (2013)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4137
Survey No.: CT_25_BLA_20200617_CS_037
Reference NOAA Chart No.: 12369

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 June 2020. 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. Orthoimagery 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
Marine infrastructure within federal navigation project limits, obstruction approaching channel entrance at time of survey.

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 3.83 feet. This correction is referenced from NOAA's V-Datum Model Version 3.0. NVC/CT/RI Region Version 2.2 in the vicinity of Black Rock Harbor and Cedar Creek, Bridgeport, 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. No tide gauges were used in this project.

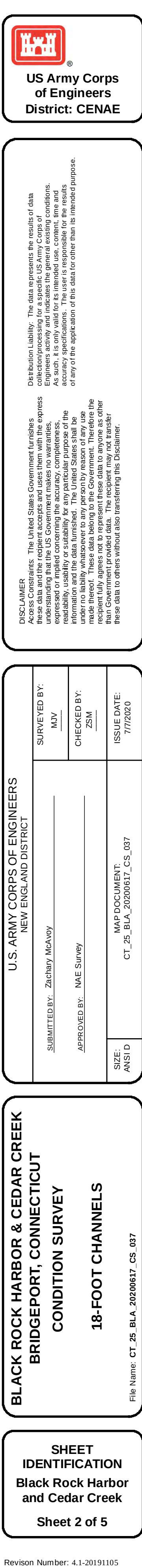
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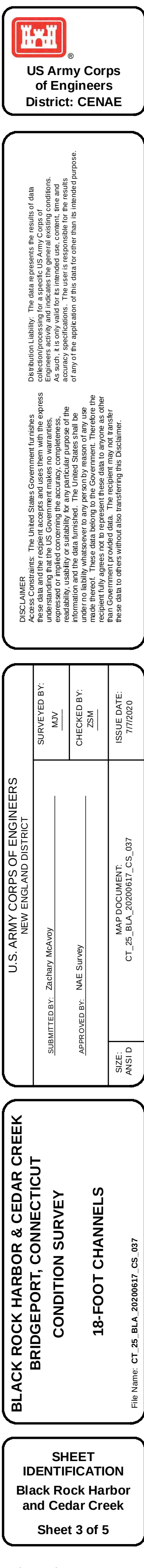
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		ISSUE DATE: 7/7/2020	
SUBMITTED BY: Zachary McVay	CHECKED BY: ZSM	MAP DOCUMENT: CT_25_BLA_20200617_CS_037	
APPROVED BY: NAE Survey	SIZE A1SD		

**BLACK ROCK HARBOR & CEDAR CREEK
BRIDGEPORT, CONNECTICUT
CONDITION SURVEY
18-FOOT CHANNELS**

**SHEET
IDENTIFICATION
Black Rock Harbor
and Cedar Creek
Sheet 1 of 5**

Revision Number: 4.1-20191105

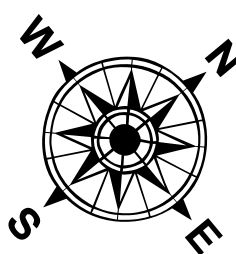
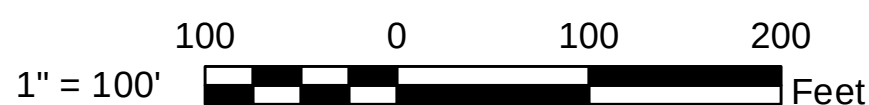






---	Federal Navigation Channel		Fixed Navigation Aids
-.-.-	Channel Center Line		Obstruction Point *
.....	Cable or Pipe Area		Red Navigation Buoy
—	Contour Line		Green Navigation Buoy
—	Marine Infrastructure*		Shoaling Area
			Shoalest Sounding**

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



Horizontal Datum: Connecticut, CT-0600 NAD 83
Data Date Units: U.S. Survey Feet
Vertical Datum: MLW
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: Sta. B 7373 B 2003 (2013)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4137
Survey No.: CT_25_BLA_20200617_CS_037
Reference NOAA Chart No.: 12369

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 June 2020. 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 minimum depth of the water at the position of the sounding. Sounding locations during survey operations, 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 may not be reflected in the map. The sounding information is for information. The information depicted on this map should NOT be used to determine volume as volumes are determined from more sounding information than shown.

Marine infrastructure within federal navigation project limits, obstruction approaching channel entrance at time of survey.

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 3.83 feet. This correction is referenced from NOAA's V-Datum Model Version 3.9, NY/CT/RI Region Version 2.2 in the vicinity of Black Rock Harbor and Cedar Creek, Bridgeport, 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. No tide gauges were used in this project.

CONDITION SURVEY

18-FOOT CHANNELS

**SHEET
IDENTIFICATION**
**Black Rock Harbor
and Cedar Creek**
Sheet 4 of 5



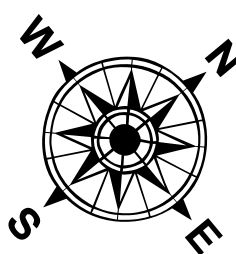
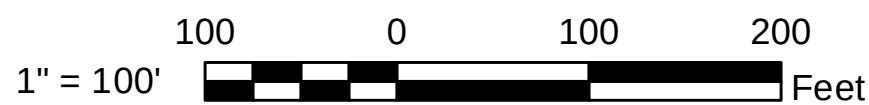
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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SURVIVED BY: MD
SUBMITTED BY: Zachary McAnoy		CHECKED BY: ZSM
APPROVED BY: NAE Survey		ISSUE DATE: 7/20/20
SIZE: ANSI D	MAP DOCUMENT: CT_26_BLA_20200617_CS_087	



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

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



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 GPS 855 (RTK)
RTK Base Station: Sta. BM 7373 B 2003 (2013)
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4137
Survey No.: CT_25_BLA_20200617__CS_037
Reference NOAA Chart No.: 12369

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 June 2020. 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 minimum depth of water. Sounding information is not intended to be used located during survey operations, 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 is not intended to be used for navigation. Sounding information is not intended to be used for navigation. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Marine infrastructure within federal navigation project limits, obstruction approaching channel entrance at time of survey.

Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 3.83 feet. This correction is referenced from NOAA's V-Datum Model Version 3.9, NY/CT/RI Region Version 2.2 in the vicinity of Black Rock Harbor and Cedar Creek, Bridgeport, 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. No tide gauges were used in this project.

**US Army Corps
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District: CENAE**

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

REVIEWED BY:
MJV

CKED BY:
ZSM

DATE:

ANSI D
SIZE:
MAP DOCUMENT:
CT 25 BIA 20200617 CS 037

**DOCK HARBOR & CEDAR CREEK
REPORT, CONNECTICUT
CONDITION SURVEY**

18-FOOT CHANNELS

File Name: CT 25 BLA 20200617 CS 037

**SHEET
IDENTIFICATION**
**Black Rock Harbor
and Cedar Creek**
Sheet 5 of 5