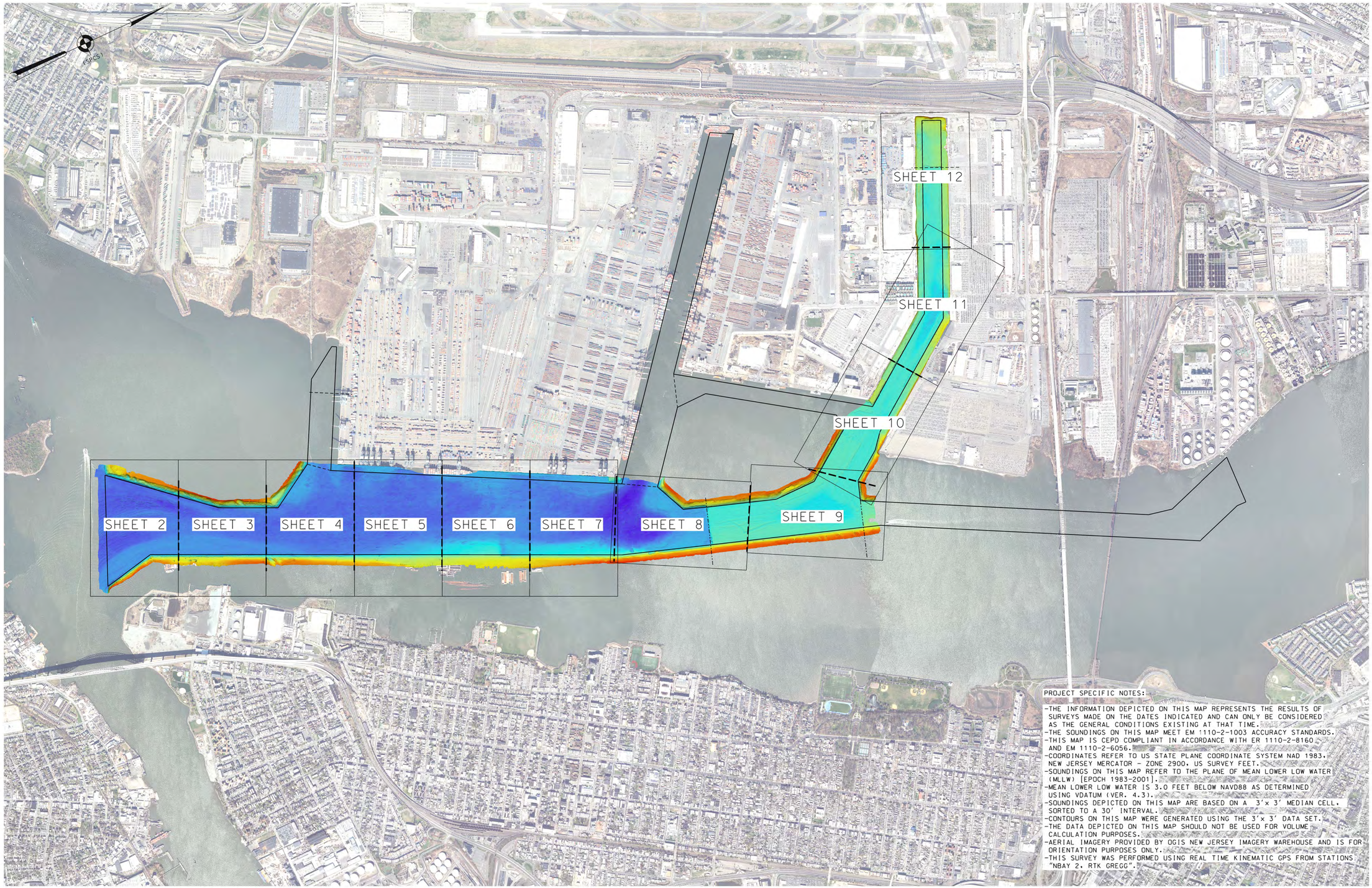


PROJECT SPECIFIC NOTES:

-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, NEW JERSEY MERCATOR - ZONE 2900, US SURVEY FEET.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.3).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3'x 3' MEDIAN CELL, SORTED TO A 30' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x 3' DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY OGIS NEW JERSEY IMAGERY WAREHOUSE AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATIONS "NBAY 2, RTK GREGG".

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
ELEVATION: 7.41' (NAVD 1988)	ELEVATION: 21.93' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	FA-CM+CO
	MP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 1000 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 5387/0/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OS SURVEY SUPPORT SECTION
APPROVED: MIKE ARAZ, CHIEF OPERATIONS DIVISION
DATE: DEPT. OF THE ARMY SURVEYS AND MAPPING BRANCH 19 DECEMBER 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

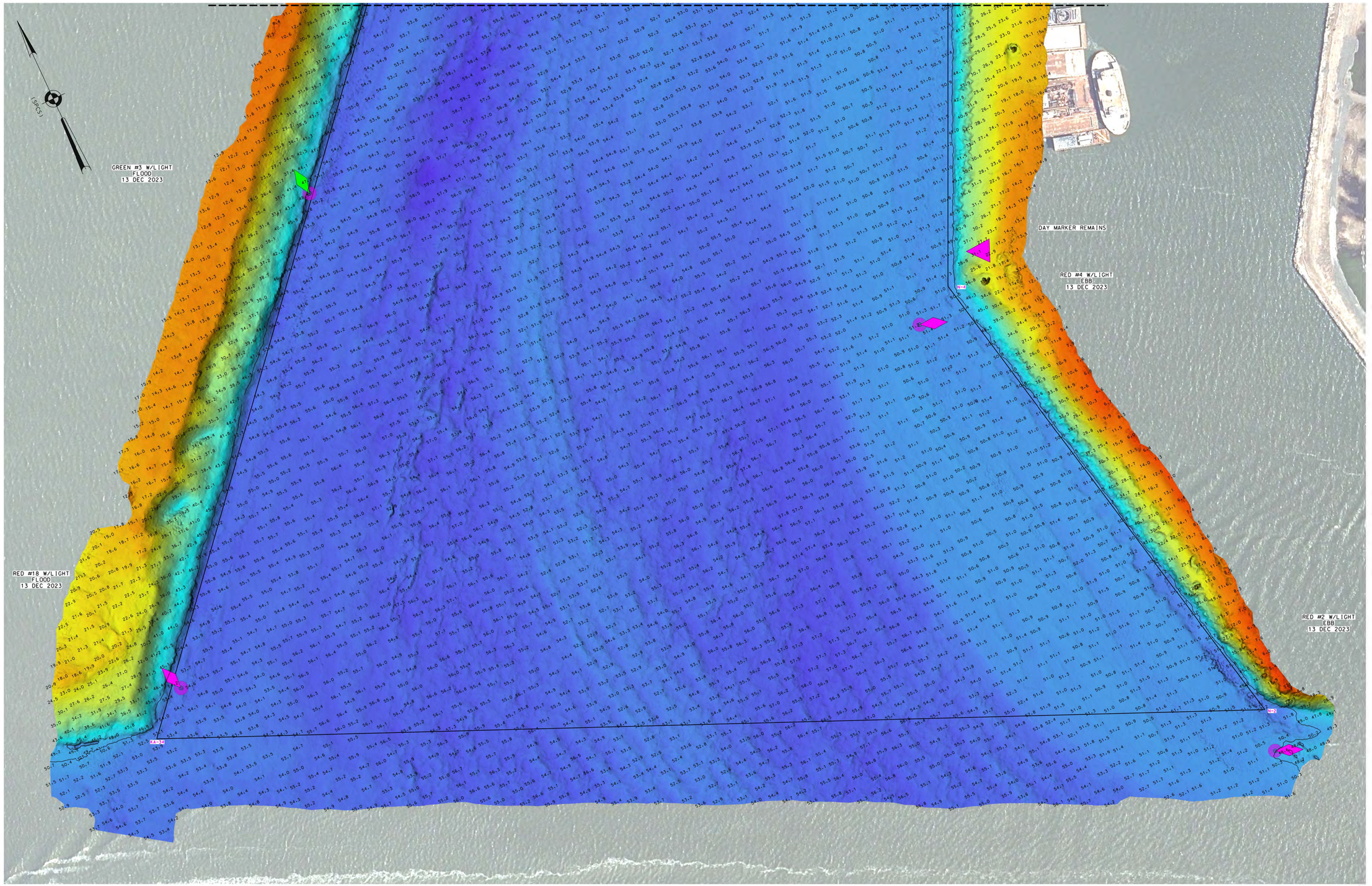
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SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-101

1 OF 12

MATCH TO SHEET 3



* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	FA-CM-ED
	WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 53B7/O/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: JAMES MEAD, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 19 DECEMBER 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-102

2 OF 12

MATCH TO SHEET 4

(SPCS)

GREEN #5 W/LIGHT
FLOOD
13 DEC 2023

MATCH TO SHEET 2

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM+ED
WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 53871/0/N1/N3

APPROVED: P. KEARNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
DEPUTY FOR SURVEYS AND MAPPING BRANCH

DATE: 19 DECEMBER 2023

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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

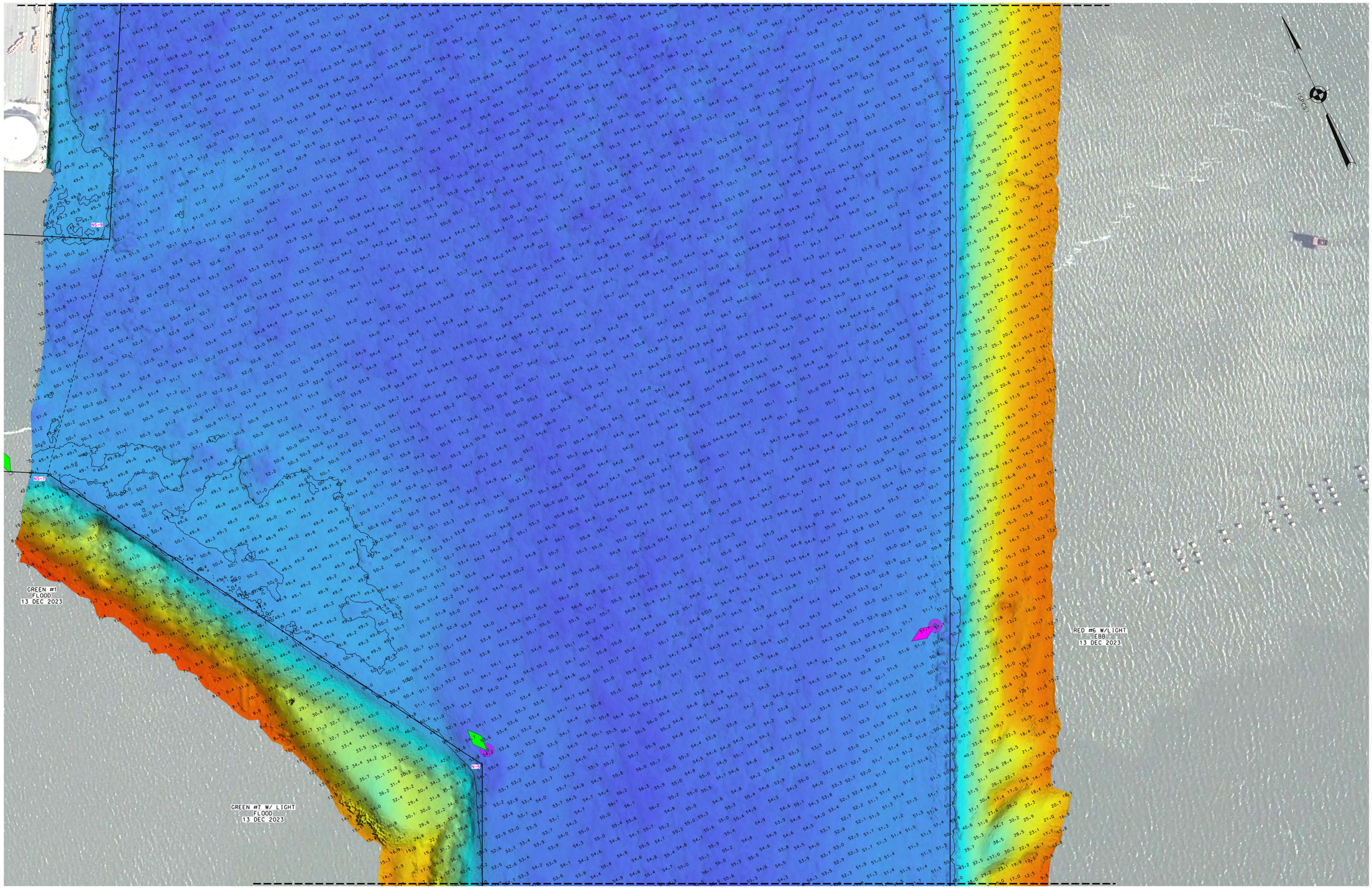
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-103

3 OF 12

MATCH TO SHEET 5



MATCH TO SHEET 3

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM-ED
WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 53871/0/N1/N3

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 19 DECEMBER 2023

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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

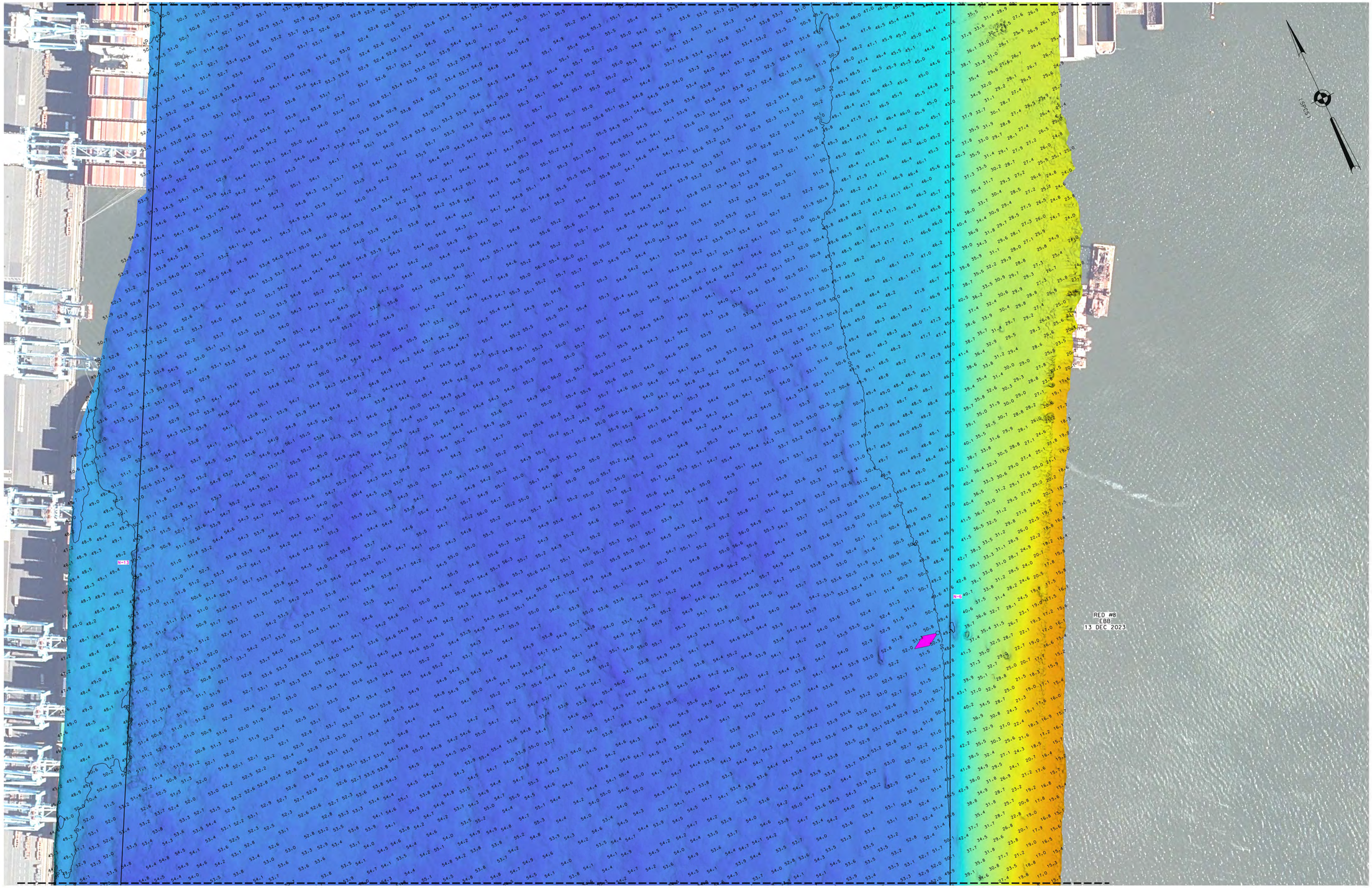
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-104

4 OF 12

MATCH TO SHEET 6



MATCH TO SHEET 4

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM-ED
MP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 5387/0/N1/N3

APPROVED:	P. KEARNS, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARAZ, DEPUTY FOR SURVEYS AND MAPPING BRANCH
DATE:	19 DECEMBER 2023

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U.S. ARMY CORPS OF ENGINEERS
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-105

5 OF 12

MATCH TO SHEET 7

(SPOIL)

RED #10 W/LIGHT
EBB
13 DEC 2023

MATCH TO SHEET 5

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	FA-CM-CO
	WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 53871/0/N1/N3

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: JAY MEAZ — DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 19 DECEMBER 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-106

6 OF 12

MATCH TO SHEET 8

(SPOIL)

RED #12
EBB
13 DEC 2023

MATCH TO SHEET 6

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	FA-CM=EO
	MP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 5387/0/N1/N3

APPROVED: P. KEARNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: JAMES GRAZ
DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH

DATE: 19 DECEMBER 2023

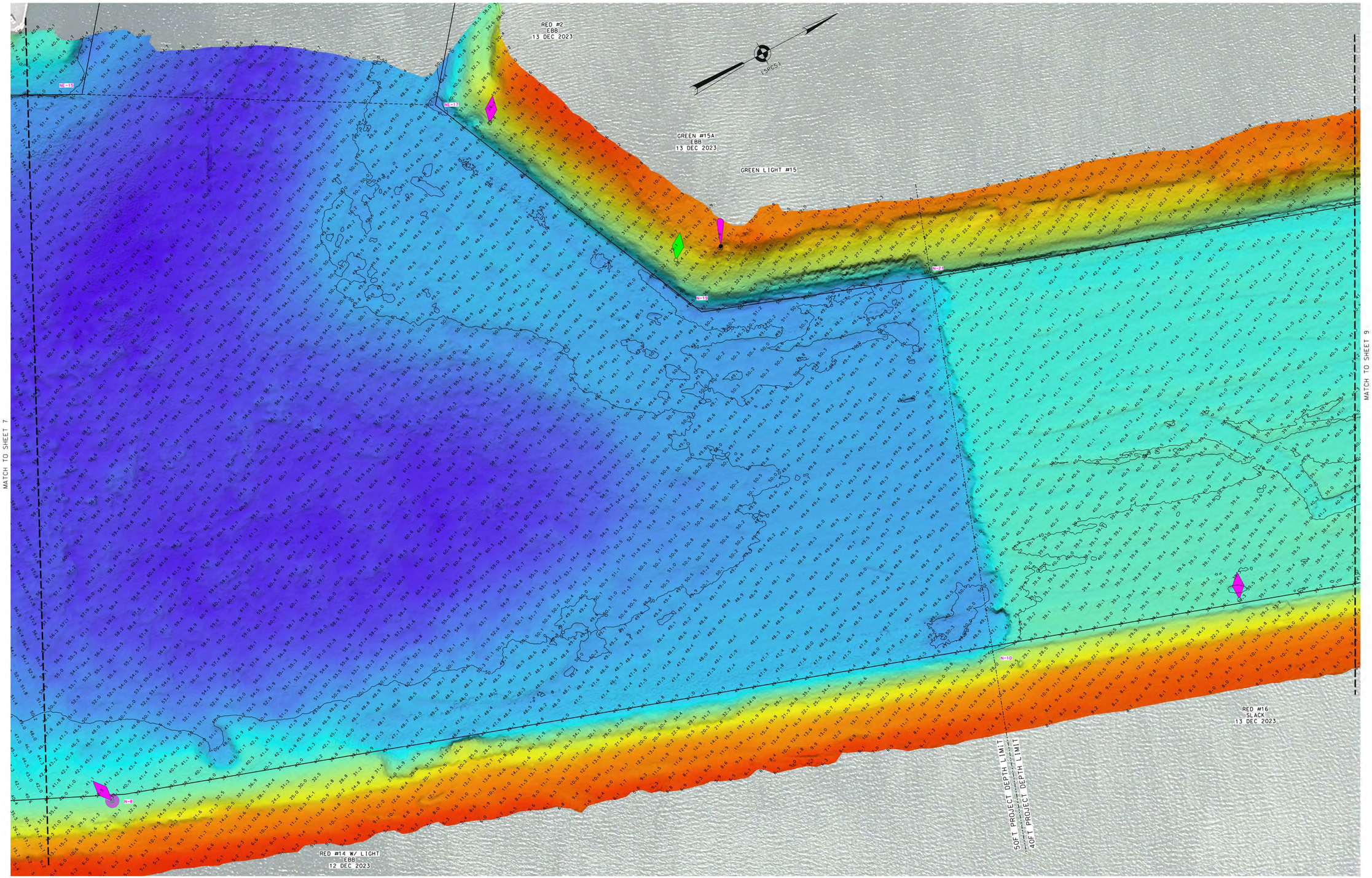
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-107

7 OF 12



* FOR PROJECT SPECIFIC NOTES. REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM-ED	
WP	JHS	

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 53870/0/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ, DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 19 DECEMBER 2023

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U.S. ARMY CORPS OF ENGINEERS
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NEW YORK. NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
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NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-108

8 OF 12

MATCH TO SHEET 10

MATCH TO SHEET 8

(SPOIL)

GREEN #1 W/LIGHT
EBB
13 DEC 2023

GREEN #17 W/LIGHT
FLOOD
13 DEC 2023

GREEN LIGHT #19
13 DEC 2023

GREEN #19A
SLACK
13 DEC 2023

RED #20 W/LIGHT
SLACK
13 DEC 2023

RED #18 W/LIGHT
SLACK
13 DEC 2023

40FT PROJECT DEPTH LIMIT

35FT PROJECT DEPTH LIMIT

N-23

N-233

N-2

N-12

N-14

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM=ED
WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 15387/0/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER

APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MEAZ, DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH

DATE: 19 DECEMBER 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-109

9 OF 12

(SPCS)

GREEN #3
EBB
13 DEC 2023

N-23C

N-23B

PN-1A

PN-4

PN-4

PN-4

PN-1D

GREEN LIGHT #19
13 DEC 2023

GREEN #19A
13 DEC 2023

MATCH TO SHEET 9

MATCH TO SHEET 11

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	FA-CM-ED
		WP	JHS

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REG. NO./FILE NO.: 5387/0/N1/N3

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE JANUSZEWICZ	DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE:	19 DECEMBER 2023	

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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-110

10 OF 12

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM+CO	
MP	JHS	

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 53877/0/N1/N3

APPROVED:	P. KEARNS FIELD CARTOGRAPHER
	M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MEAZ DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	19 DECEMBER 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-111

11 OF 12

(SPCS)

MATCH TO SHEET 11

40FT PROJECT DEPTH LIMIT

35FT PROJECT DEPTH LIMIT

PN-5

PN-14

0 100' 200'

* FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	FA-CM-ED	
MP	JHS	

DATES OF SURVEY:
12-14 DEC 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
AUTO GAUGE

REQ. NO./FILE NO.: 53877/0/N1/N3

APPROVED: P. KEARNS, FIELD CARTOGRAPHER

APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE ARAZ, DEPUTY FOR SURVEYS AND MAPPING BRANCH

DATE: 19 DECEMBER 2023

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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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MAIN AND PORT NEWARK CHANNELS
AFTER DREDGE SURVEY

VH-112

12 OF 12