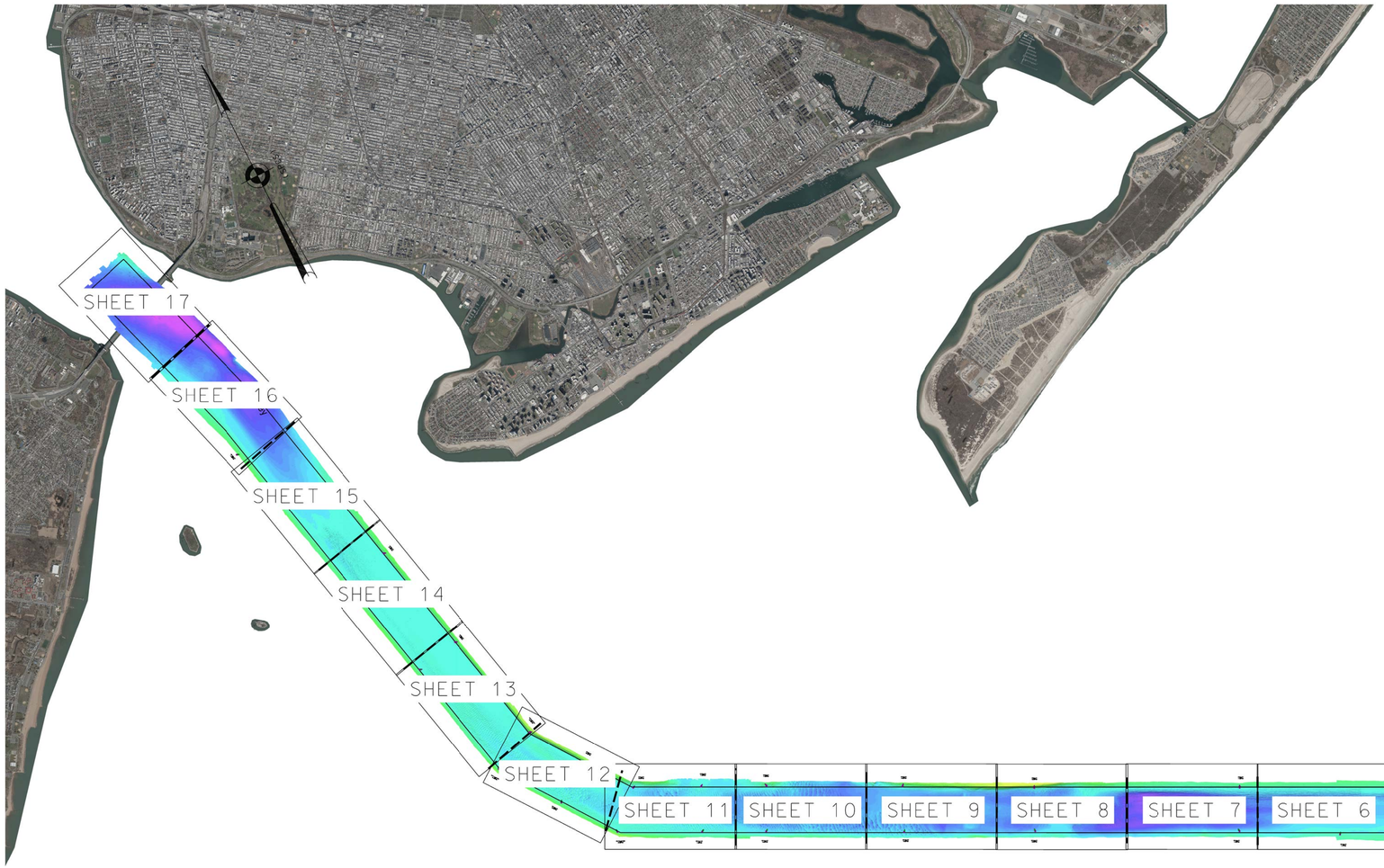




0 3000' 6000'

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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. LONG ISLAND LAMBERT - ZONE 3104. 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 2.7-2.9 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 45' 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 DISCOVER GIS DATA NY & OGIS NEWJERSEY IMAGERY WAREHOUSE AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

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NEW YORK DISTRICT

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	VJP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-6,11-13,18-20 APRIL 22
1-2,4-8,11-15-17 AUGUST 22

REG. NO./FILE NO.: 5165/0/N3

SCALE:
ONE INCH = 3000 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FIORITE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRANDUR LEAD CARTOGRAPHER
APPROVED: J. MENEZ DEPUTY CHIEF OF SURVEY
DATE: 31 AUGUST 2022

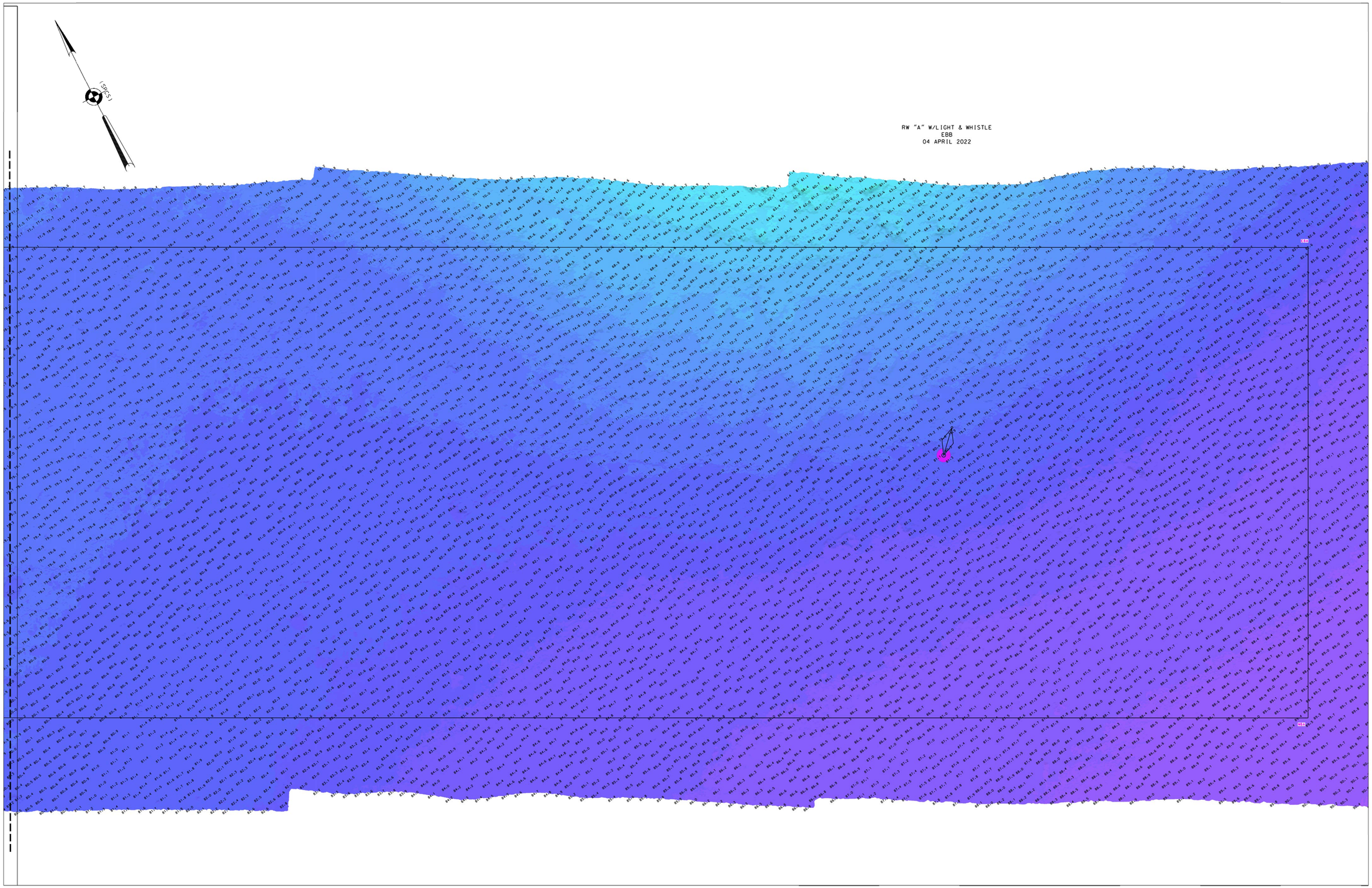
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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-101

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0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

PR	ED. CM. SG
VP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

SCALE: ONE INCH = 200 FEET

FIELD BOOKS:
1050

REG. NO./FILE NO.: 51650/0/N3

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	LEAD CARTOGRAPHER
APPROVED:	J. MENZ	SURVEY CHIEF OF SURVEY
DATE:	31 AUGUST 2022	

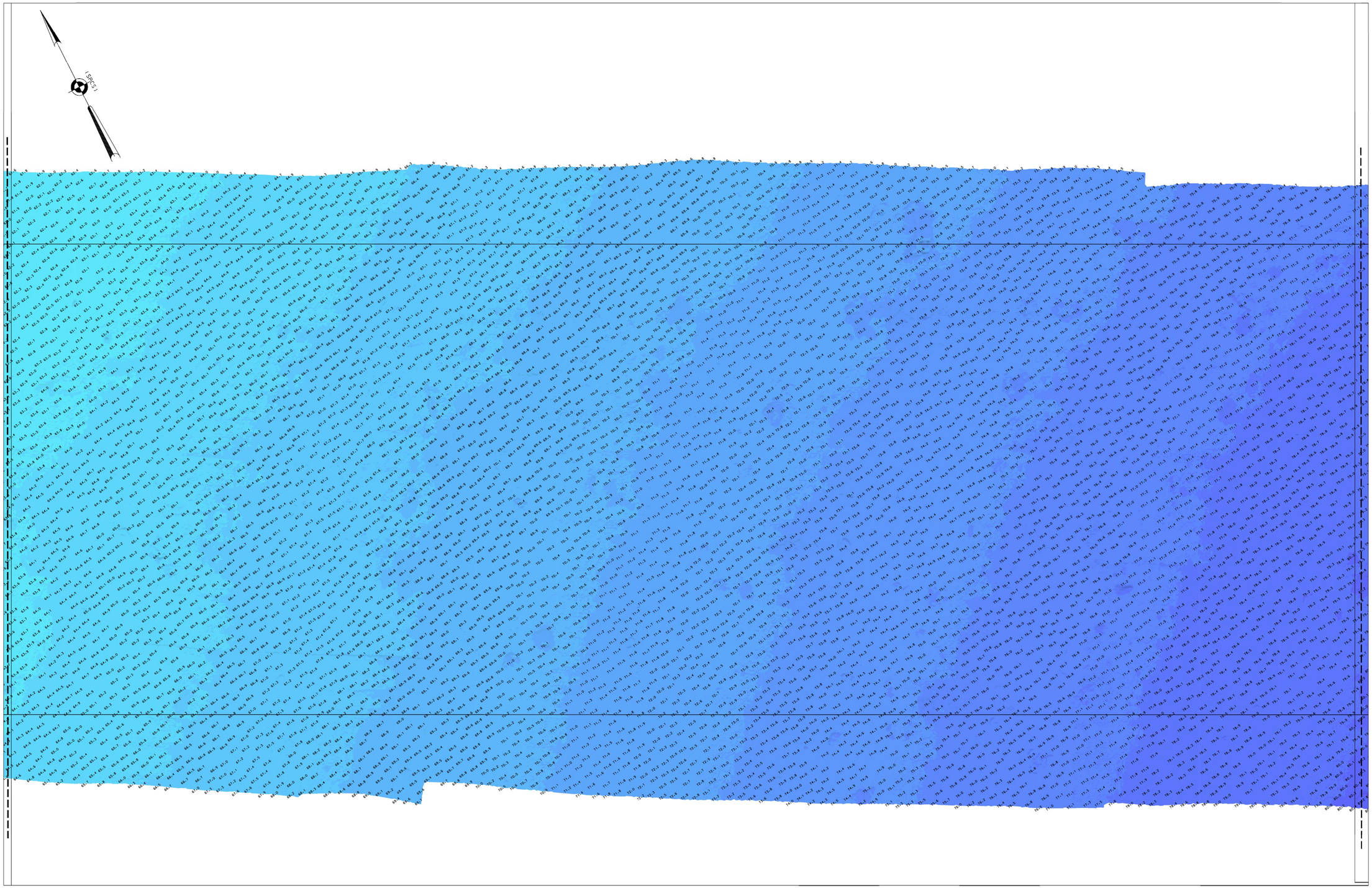
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-102

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MATCH TO SHEET 4

MATCH TO SHEET 2

0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

	PR	ED. CM. SG
	VP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5.11-13.18-20 APRIL 22
1-2.4.8.11.15-17 AUGUST 22

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050
NEW YORK HARBOR

REQ. NO./FILE NO.: 15165/0/N3

APPROVED:	P. KEARNS FIELD CARTOGRAPHER
APPROVED:	M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR LEAD CARTOGRAPHER
APPROVED:	J. MEAD CHIEF OF SURVEY
DATE:	31 AUGUST 2022

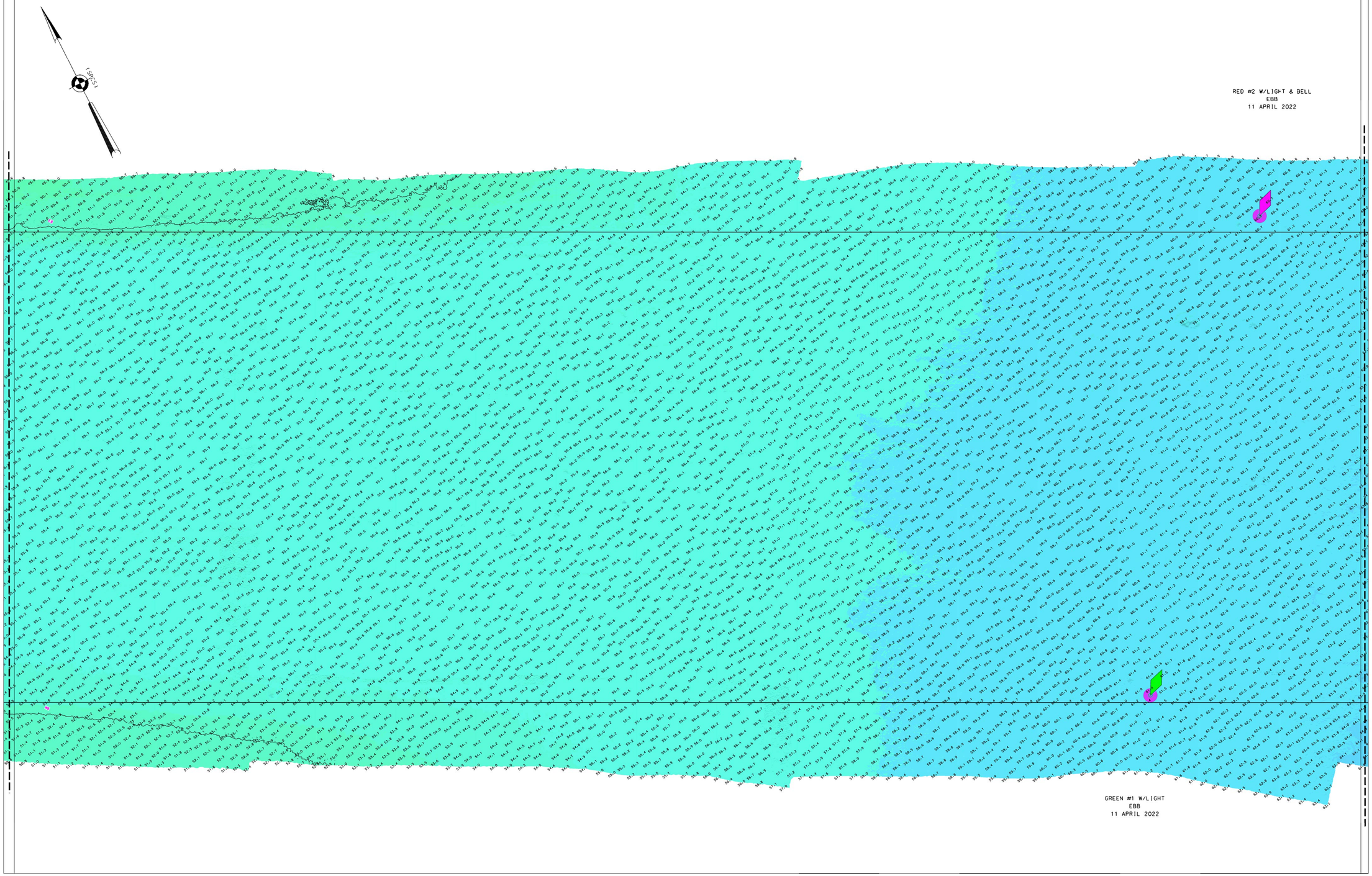
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-103

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	ED. CM. SG
	WP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4,8,11,15-17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/M3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

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NEW YORK, NEW YORK 10278

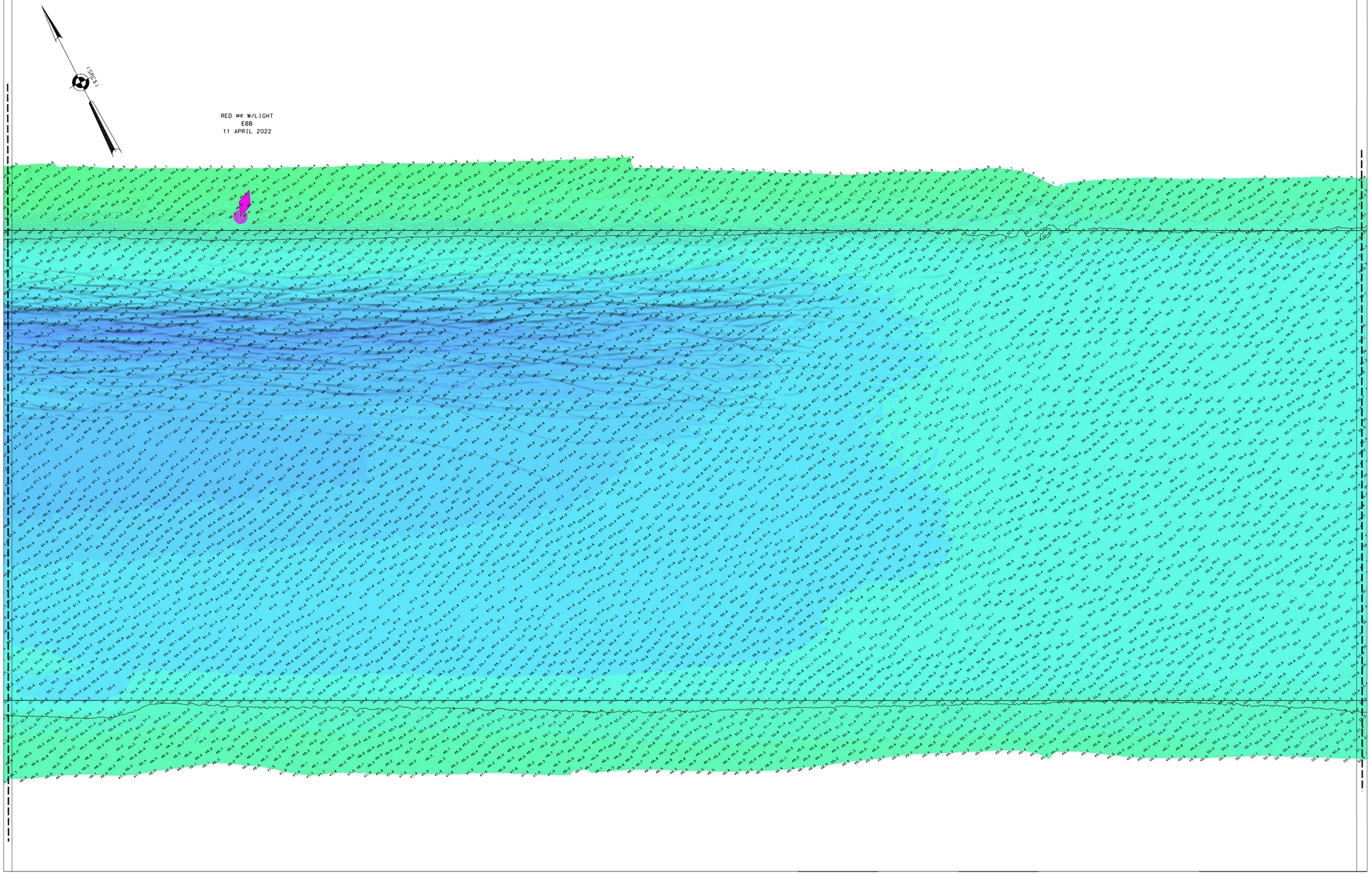
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	LEAD CARTOGRAPHER
APPROVED:	J. MENZ	SURVEY CHIEF OF SURVEY
DATE:	31 AUGUST 2022	

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-104

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

	PR	ED. CHK.	SG
	VP	CHK. CHK.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5-11-13-18-20 APRIL 22
1-2-4-8-11-15-17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	LEAD CARTOGRAPHER
APPROVED:	J. MEHL	CHIEF OF SURVEY
DATE:	31 AUGUST 2022	

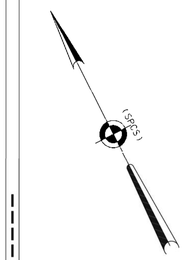
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AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

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MATCH TO SHEET 7

MATCH TO SHEET 5

GREEN #3 W/LIGHT
EBB
11 APRIL 2022

0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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	VP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

SCALE: ONE INCH = 200 FEET

FIELD BOOKS:
1050

REG. NO./FILE NO.: 5165/O/M3

APPROVED:	P. KEARNS, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, LEAD CARTOGRAPHER
APPROVED:	J. MERZ, ACTING CHIEF OF SURVEY
DATE:	31 AUGUST 2022

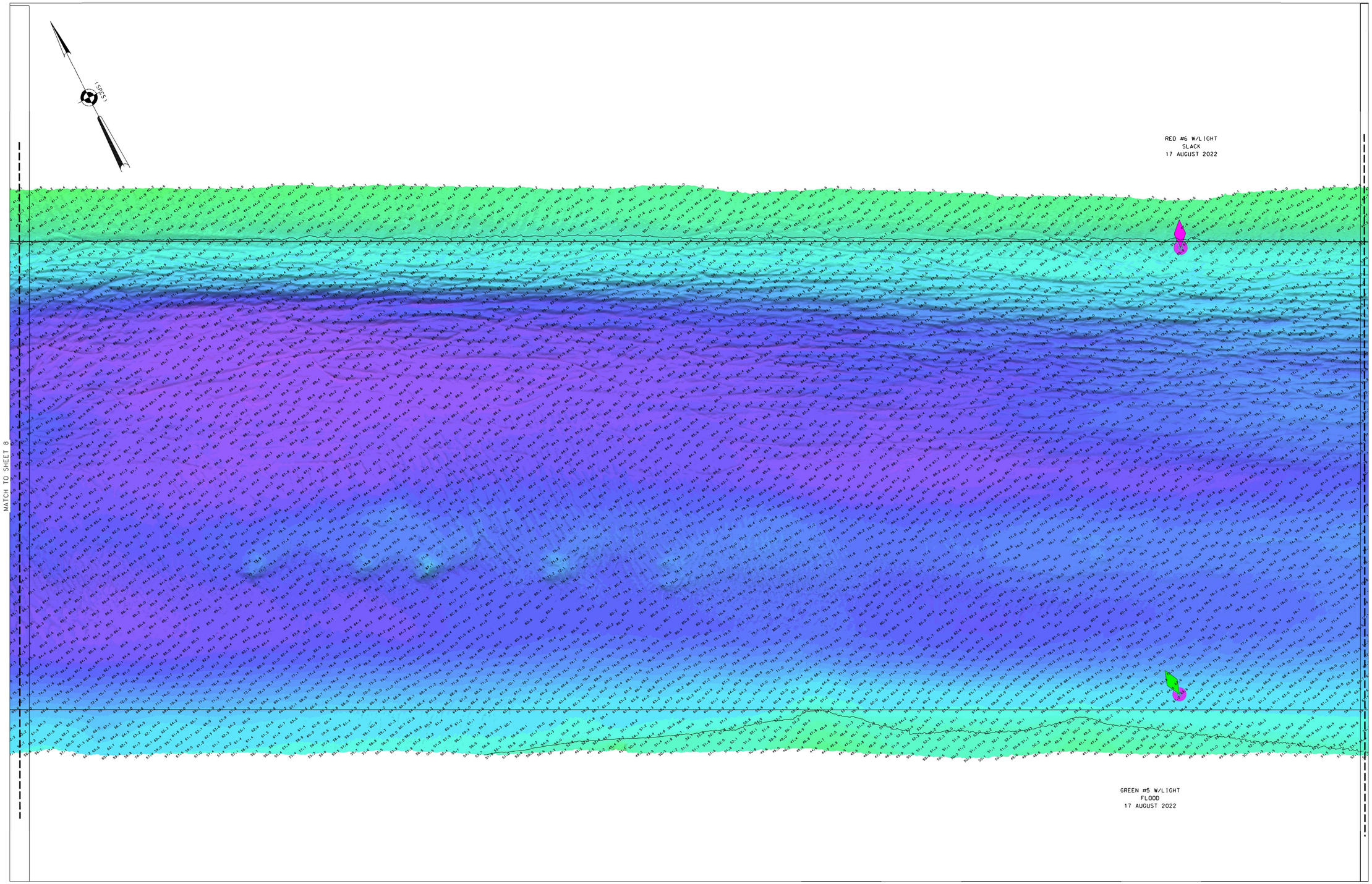
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NEW YORK HARBOR
CONDITION SURVEY

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0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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PR	ED. CM.	SG
WP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
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REQ. NO./FILE NO.: 5165/0/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MERZ CHIEF OF SURVEY
DATE: 31 AUGUST 2022

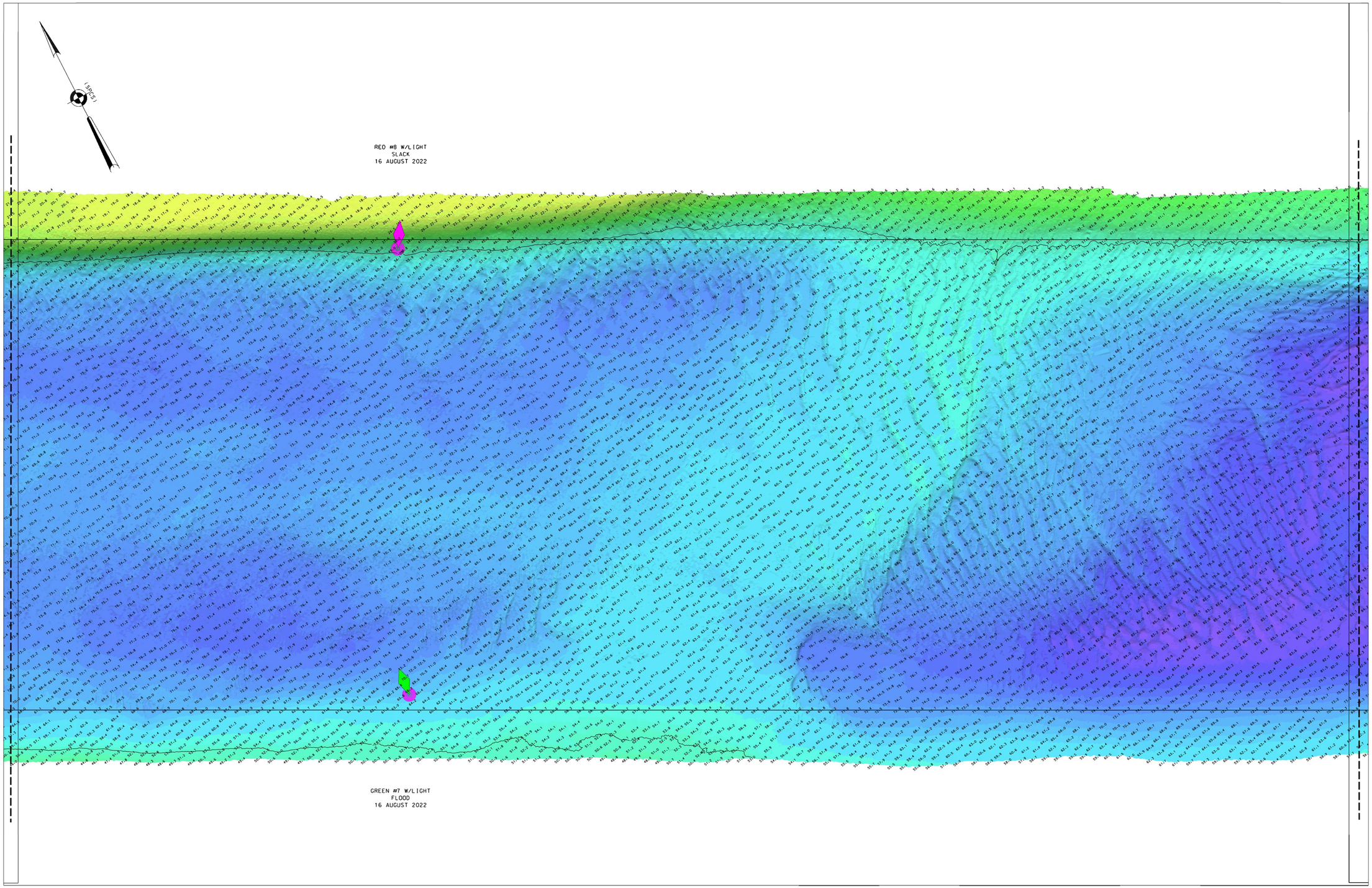
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AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-107

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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PR	ED. CM. SG
VP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

REQ. NO./FILE NO.: 5165/0/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	LEAD CARTOGRAPHER
APPROVED:	J. MERZ	SURVEY CHIEF OF SURVEY
DATE:	31 AUGUST 2022	

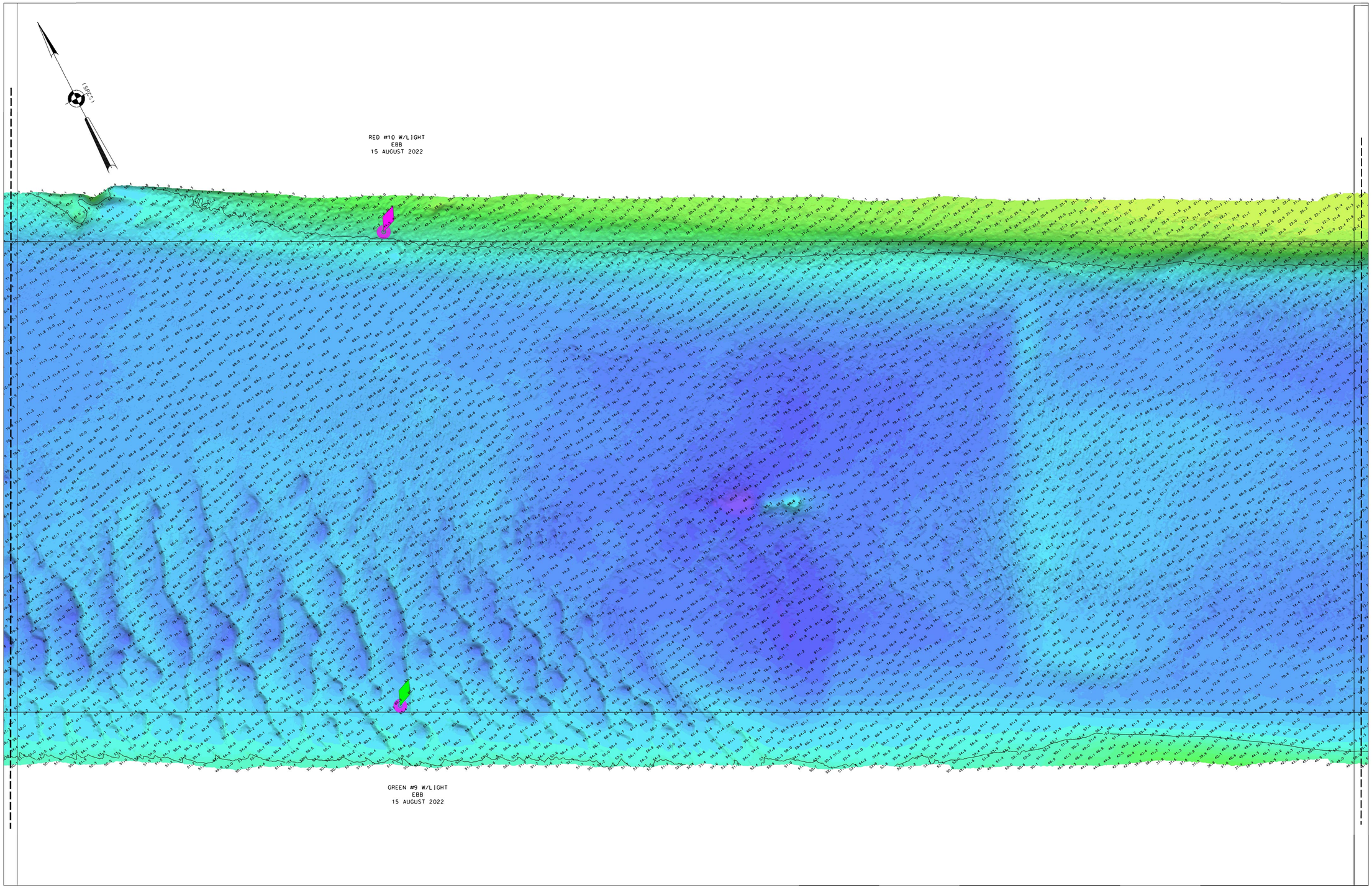
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OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-108

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS
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PR	ED. CM.	SG
VP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

REQ. NO./FILE NO.: 5165/0/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, LEAD CARTOGRAPHER
APPROVED: J. MERZ, SURVEY CHIEF OF SURVEY
DATE: 31 AUGUST 2022

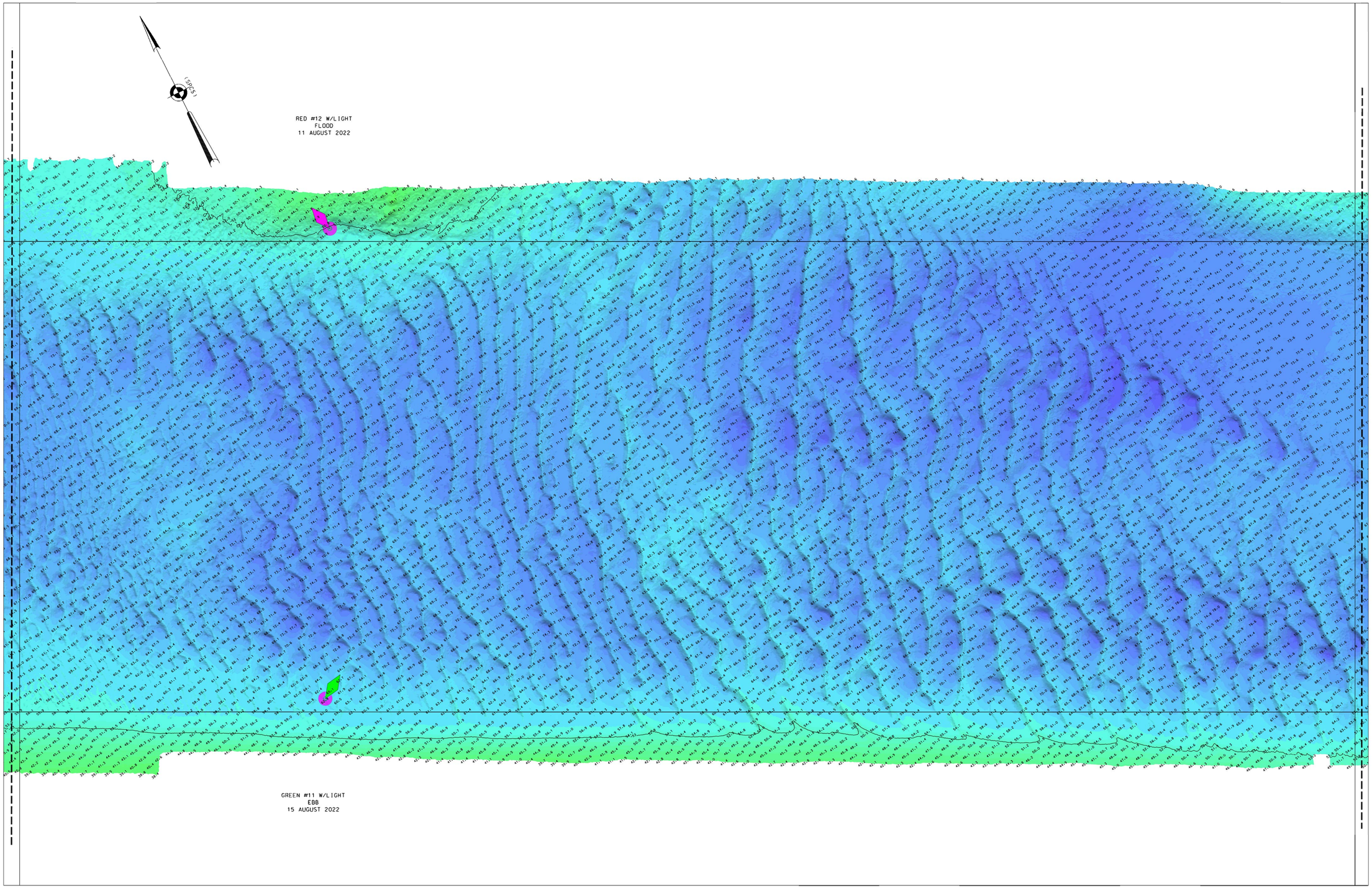
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CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR

CONDITION SURVEY

VH-109

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0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

PR	ED. CM.	SG
VP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5-11-13-18-20 APRIL 22
1-2-4-8-11-15-17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/N3

SCALE:
ONE INCH = FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MEYER CHIEF OF SURVEY
DATE: 31 AUGUST 2022

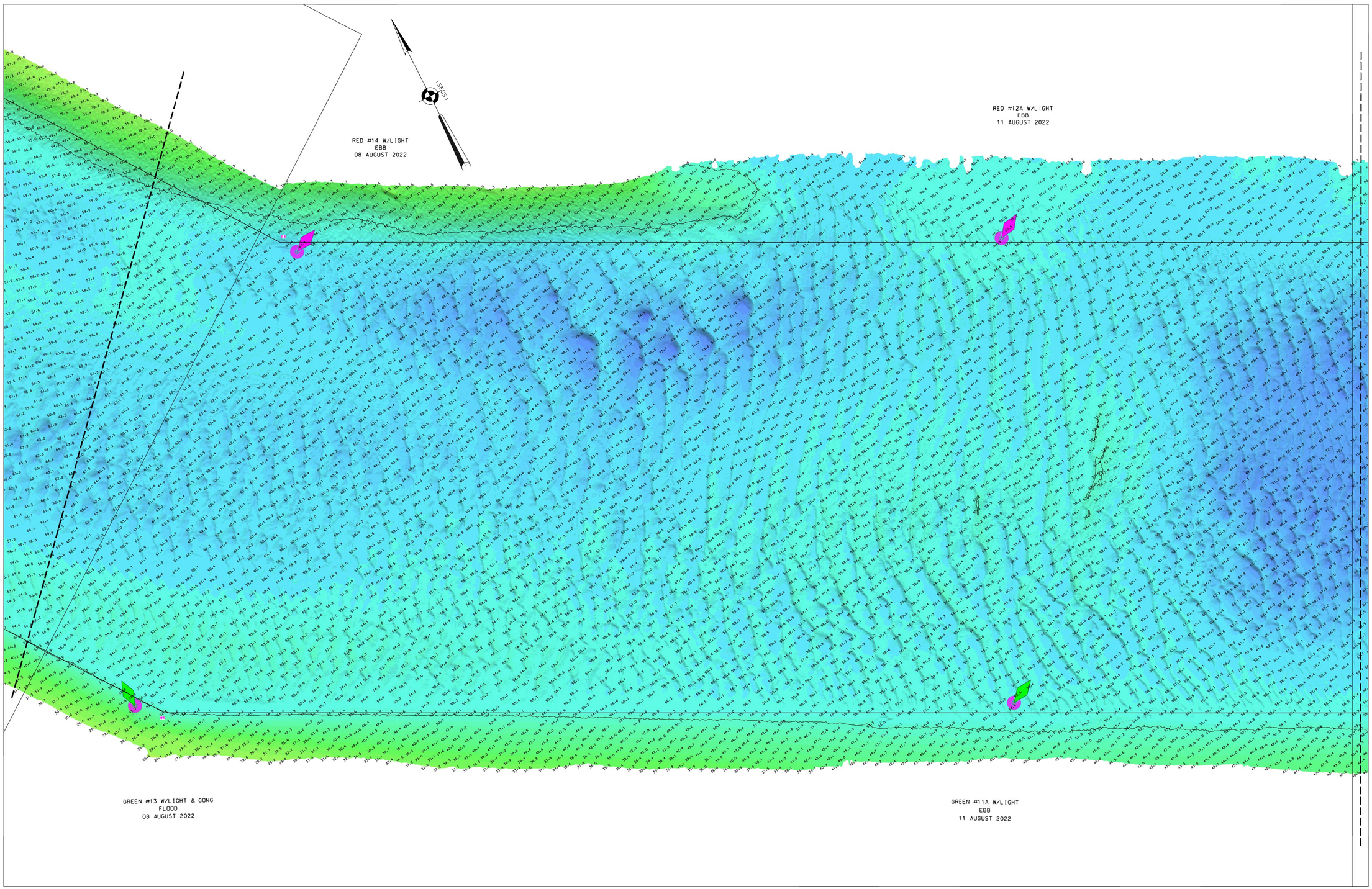
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AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-117

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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	WP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/M3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MEYER CHIEF OF SURVEY
DATE: 31 AUGUST 2022

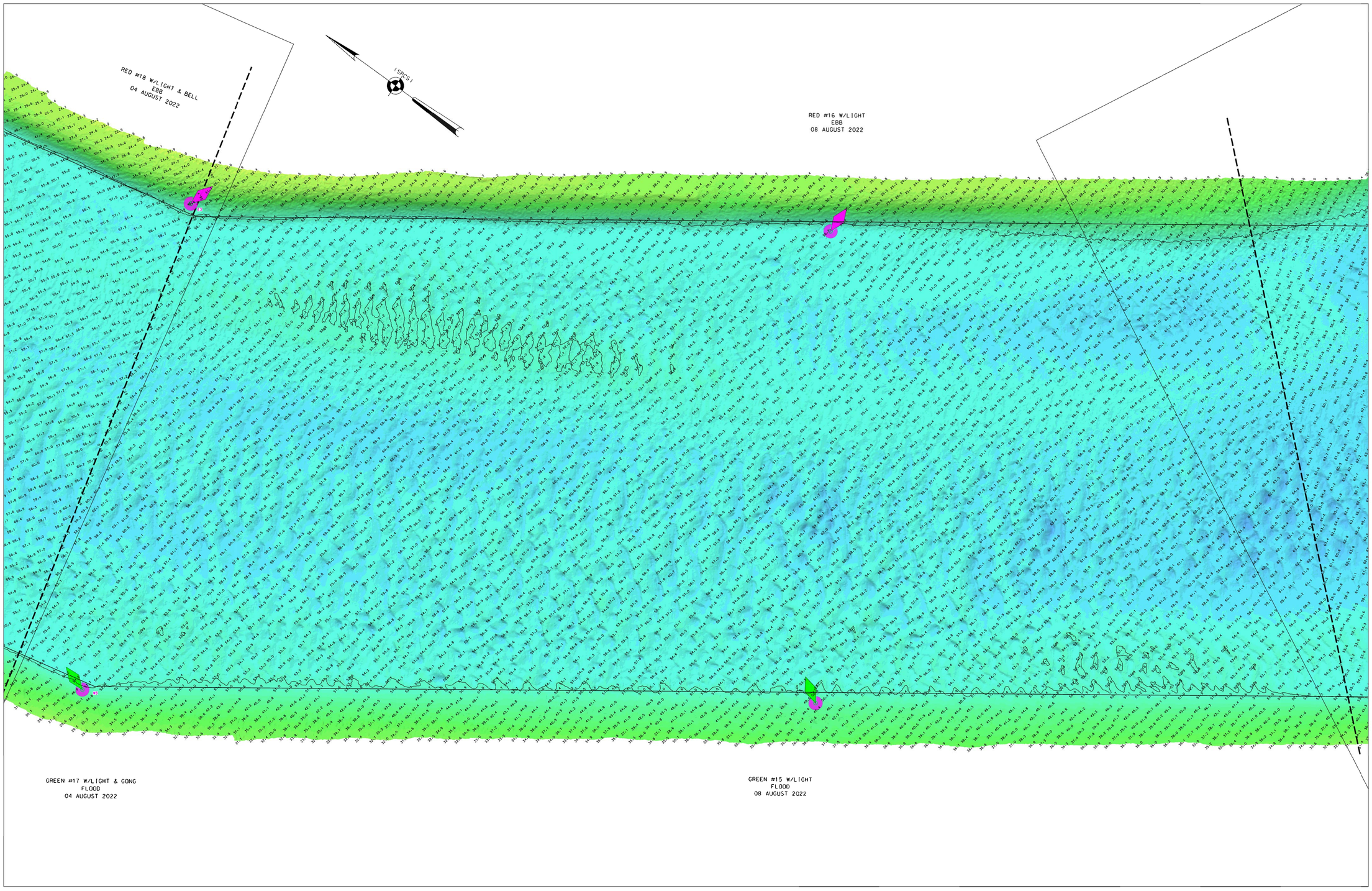
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CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-111

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* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

	PR	ED. CHK.	SG
	VP	CH. CHK.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

REG. NO./FILE NO.: 51565/0/N3

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MRAZ ACTING CHIEF OF SURVEY
DATE: 31 AUGUST 2022

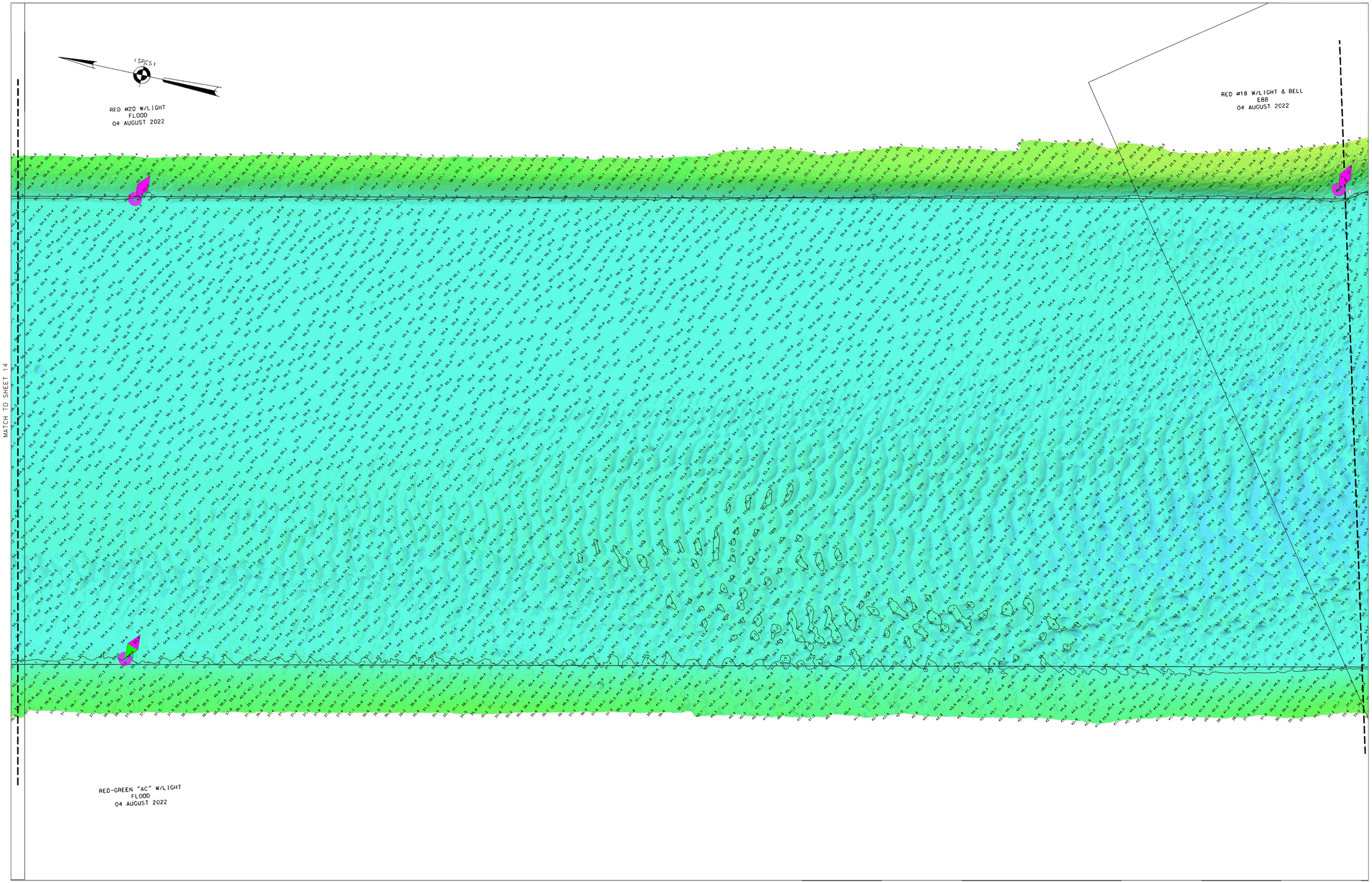
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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-112

12 OF 17



* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ED. CM.	SG
VP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5-11-13-18-20 APRIL 22
1-2-4-8-11-15-17 AUGUST 22

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

REG. NO./FILE NO.: 15165/0/M3

APPROVED: P. KEARNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
LEAD CARTOGRAPHER

APPROVED: J. MERZ
CHIEF OF SURVEY

DATE: 31 AUGUST 2022

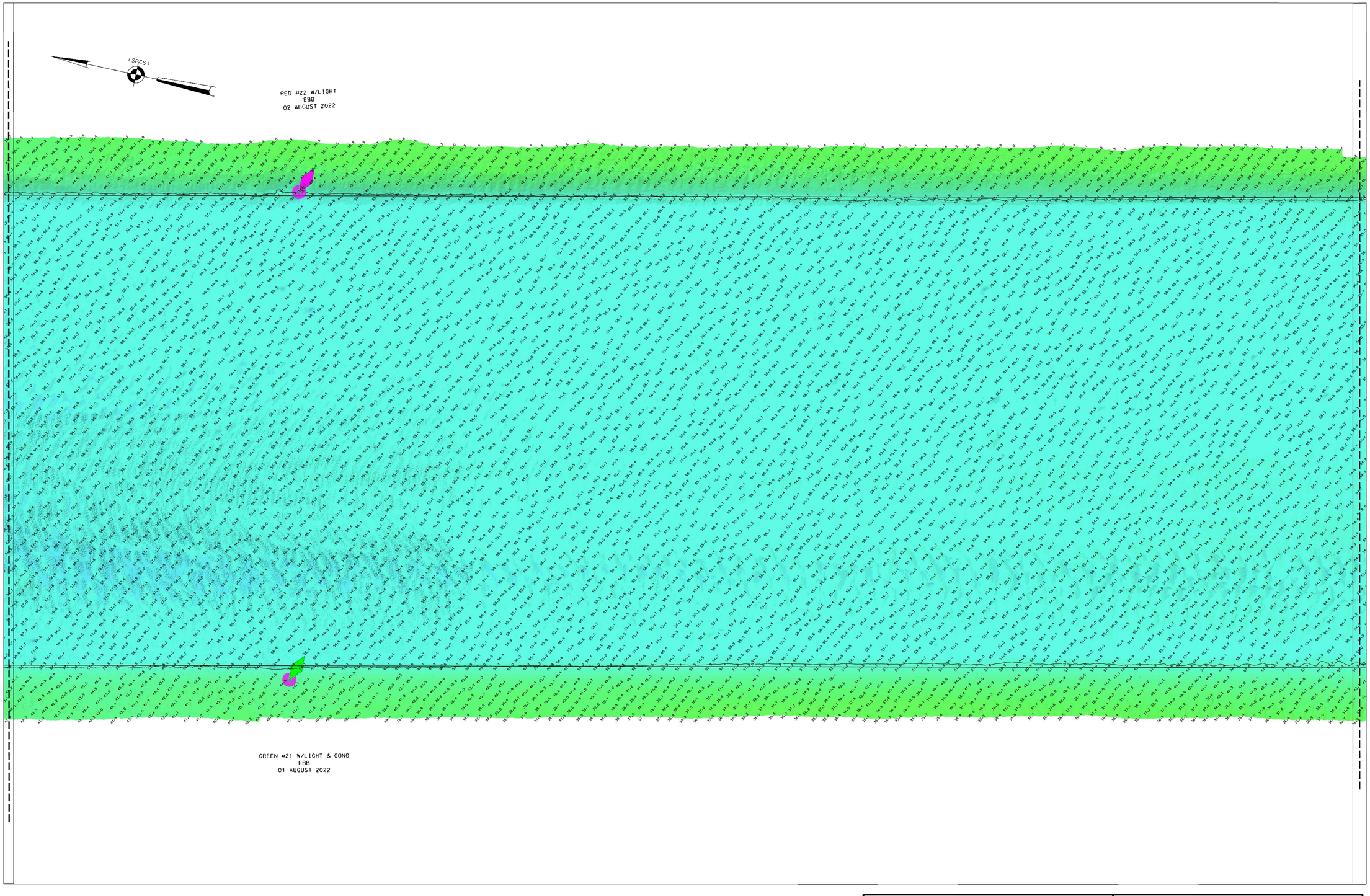
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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-113

13 OF 17



* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

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NEW YORK DISTRICT

PR	ED. CM.	SG
VP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/M3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MEAD — SURVEY CHIEF OF SURVEY
DATE: 31 AUGUST 2022

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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

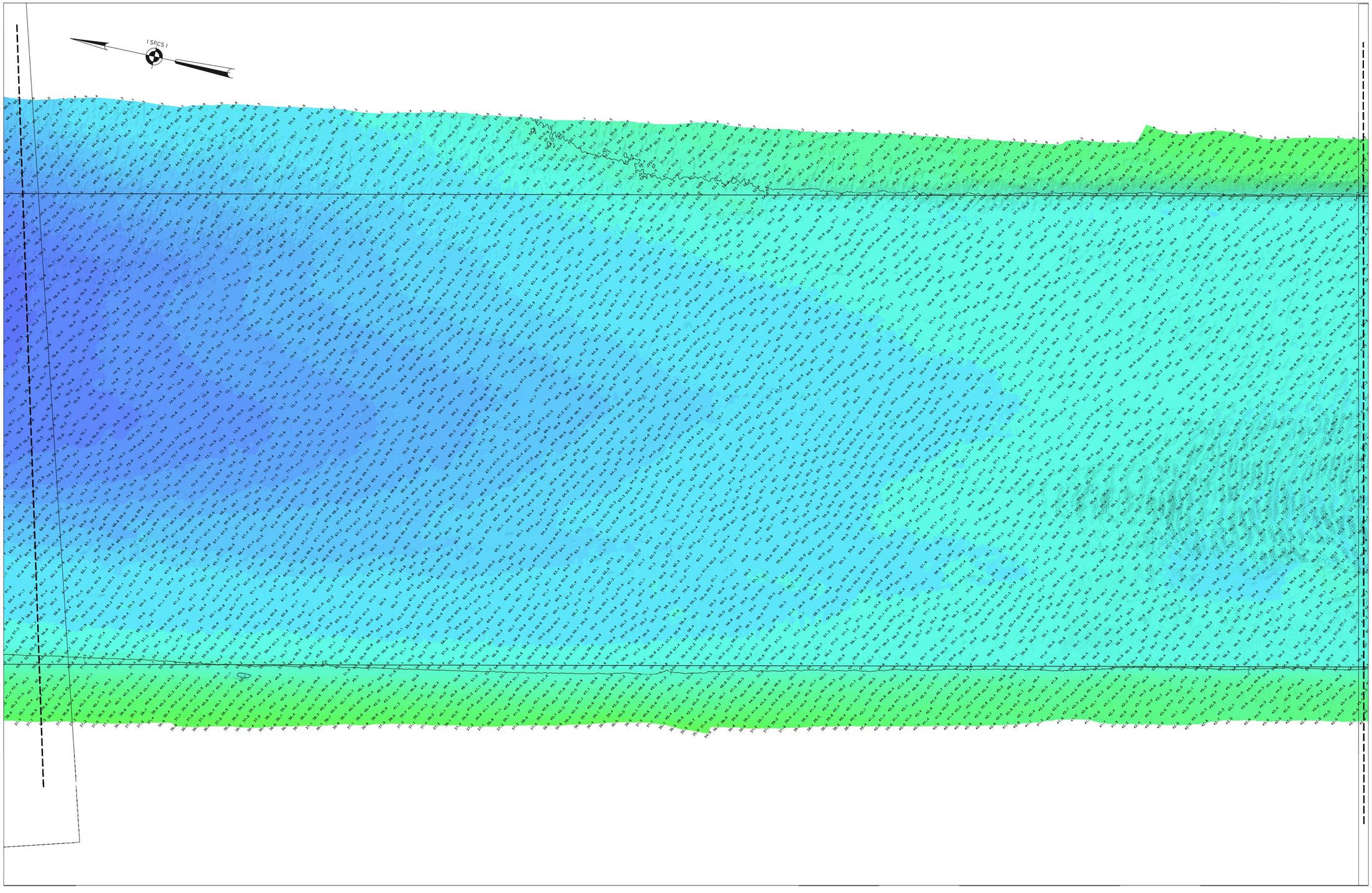
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR

CONDITION SURVEY

VH-114

14 OF 17



* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	ED. CM. SG
	VP	CM. CM. JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15,17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/M3

SCALE: ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MEAD SURVEY CHIEF OF SURVEY
DATE: 31 AUGUST 2022

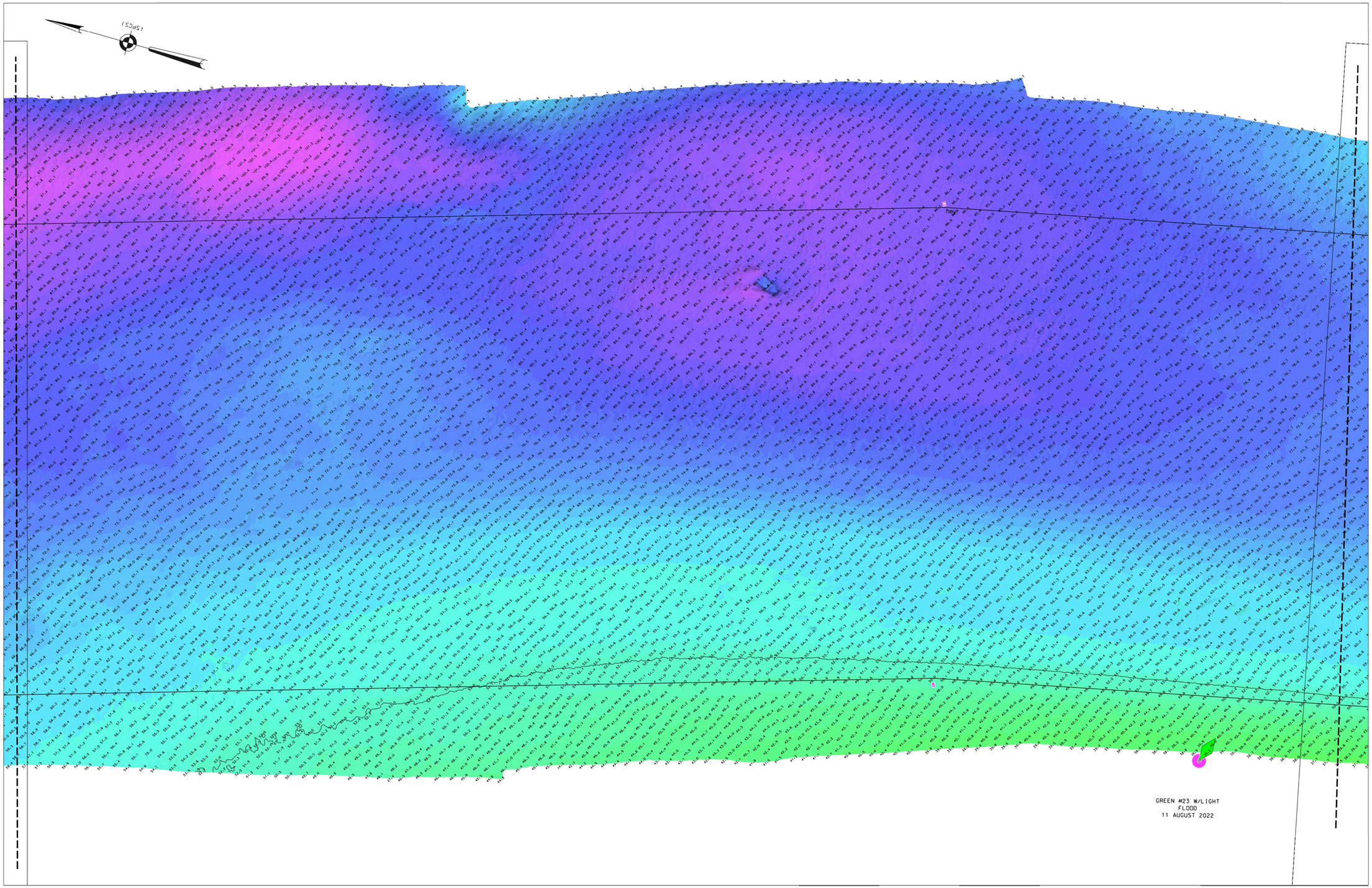
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-115

15 OF 17



0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	CO. CHK. SG
	VP	CM. CHK. JS

DATES OF SURVEY:
31 MARCH 2022
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1-2-4-8-11-15-17 AUGUST 22

REQ. NO./FILE NO.: 15165/0/M3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MERZ SURVEY CHIEF OF SURVEY
DATE: 31 AUGUST 2022

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK CHANNEL
CONDITION SURVEY

VH-116

16 OF 17

(SPCS)

MATCH TO SHEET 16

0 200' 400'

* REFER TO SHEET 1 FOR PROJECT SPECIFIC NOTES

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID:KV0709)	BENCHMARK: F342 (PID:KU1257)
ELEVATION: 6.92' (NAVD 1988)	ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ED. CM.	SG
VP	CM. CM.	JS

DATES OF SURVEY:
31 MARCH 2022
4-5,11-13,18-20 APRIL 22
1-2,4-8,11-15-17 AUGUST 22

REG. NO./FILE NO.: 15165/0/M3

SCALE:
ONE INCH = FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MEZ ACTING CHIEF OF SURVEY
DATE: 31 AUGUST 2022

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NEW YORK. NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-SS

AMBROSE CHANNEL
NEW YORK HARBOR
CONDITION SURVEY

VH-117

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