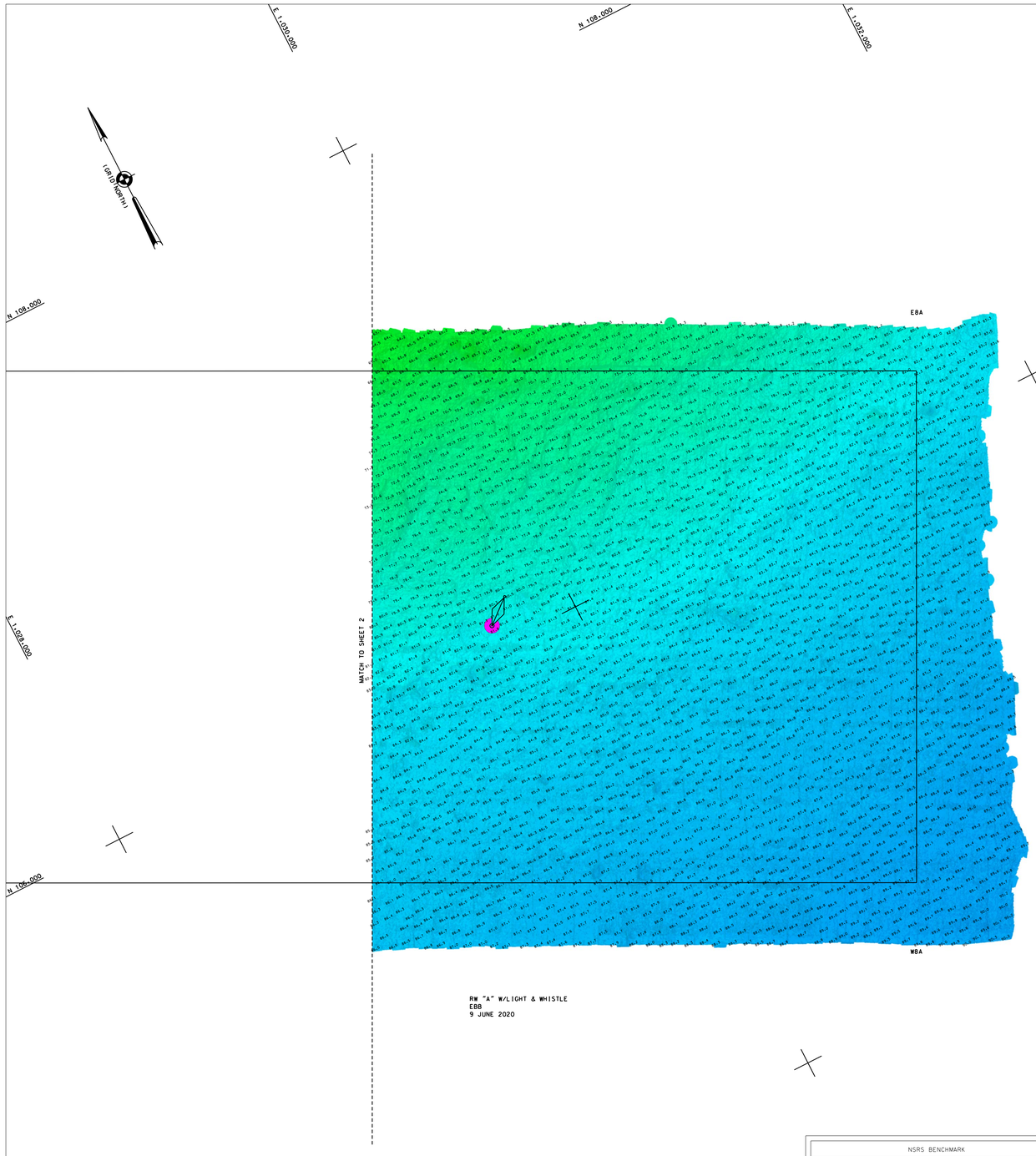

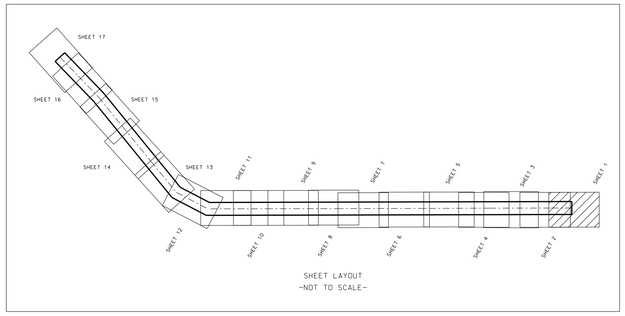

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709) ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION: 14.37' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ	
MP	SG	

N 104,000

DATES OF SURVEY:
2 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

E 1,034,000

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADGER — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

N 102,000

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

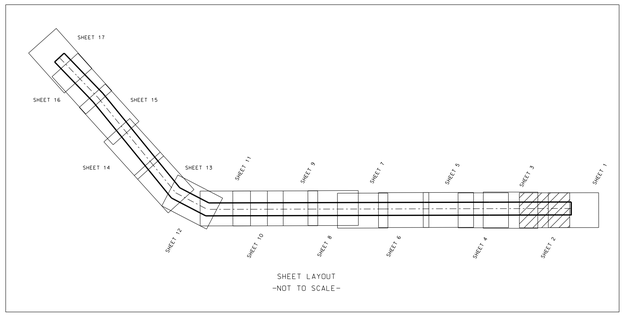
NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

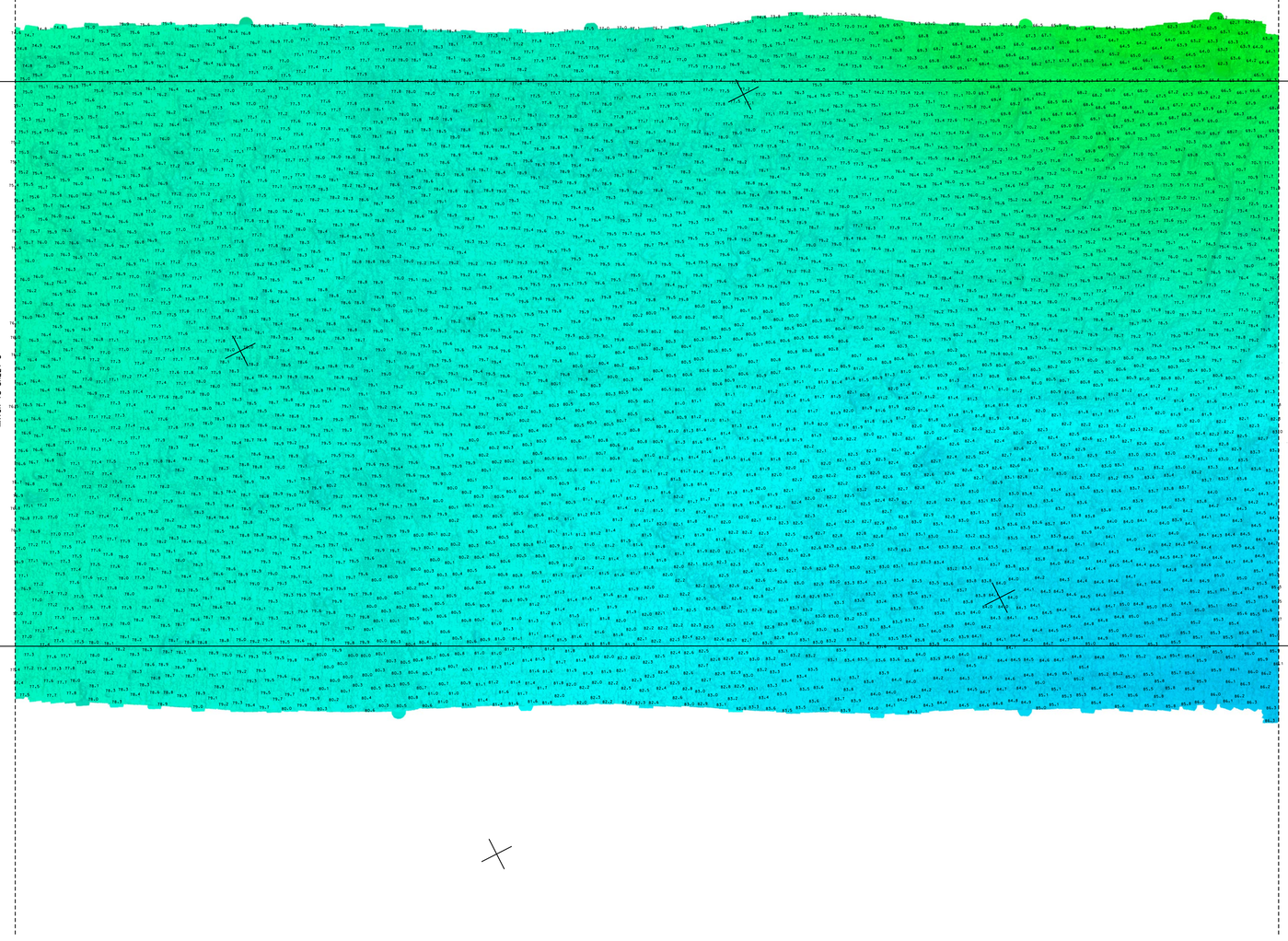
VH-101

SHEET 1 OF 17

E 1,028,000
E 1,030,000
N 101,000
N 102,000
E 1,032,000



SHEET LAYOUT
-NOT TO SCALE-



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NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
ELEVATION: 14.37' (NAVD 1988)

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

PR	ESQ	
MP	SC	

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BAABOUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

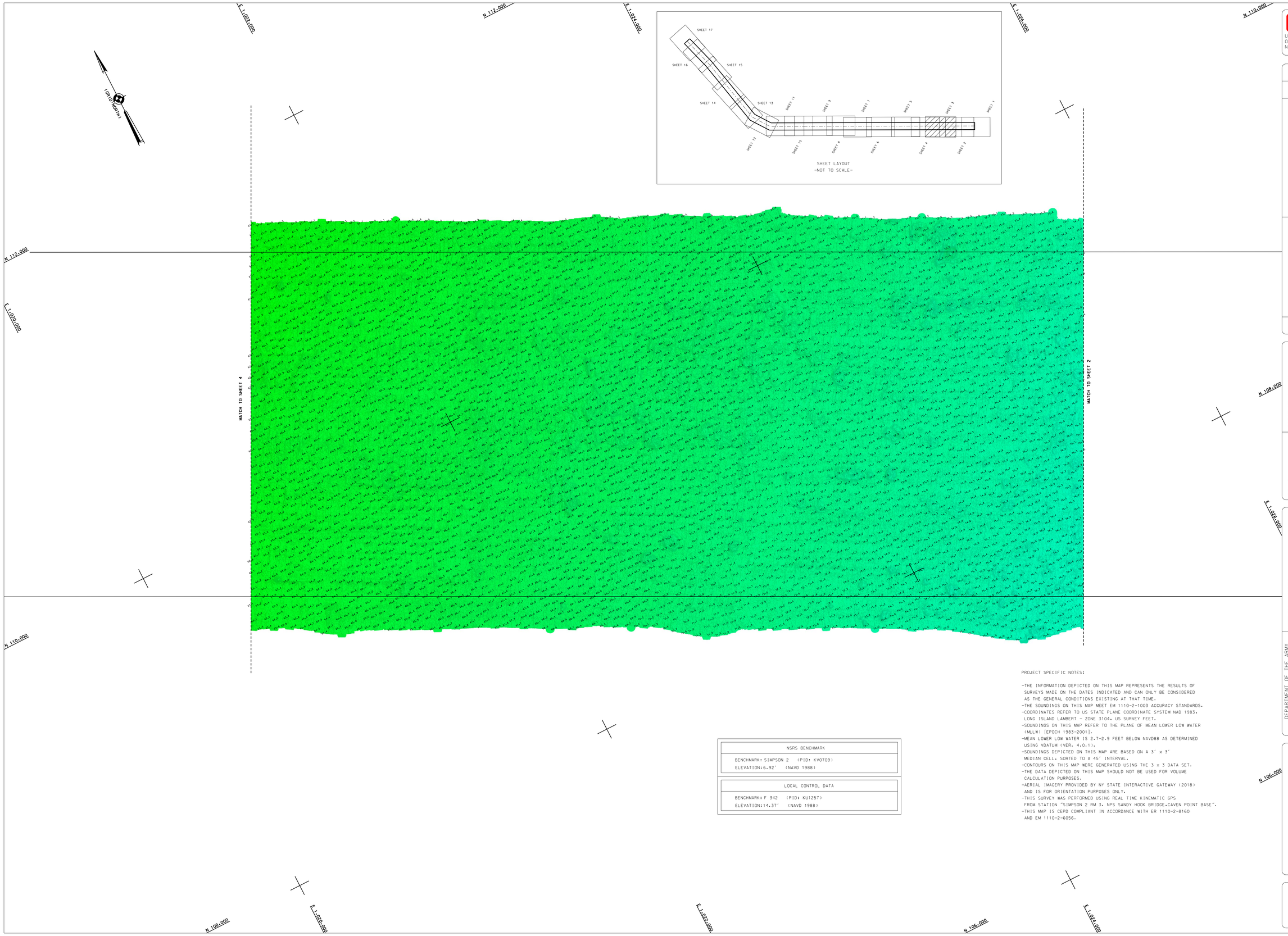
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-102

SHEET 2 OF 17



NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709) ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR: ESO
MP: SC

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHAGUR LEAD CARTOGRAPHER
APPROVED: J. MRAZ BRANCH CHIEF OF SURVEY
DATE: 5 AUGUST 2020

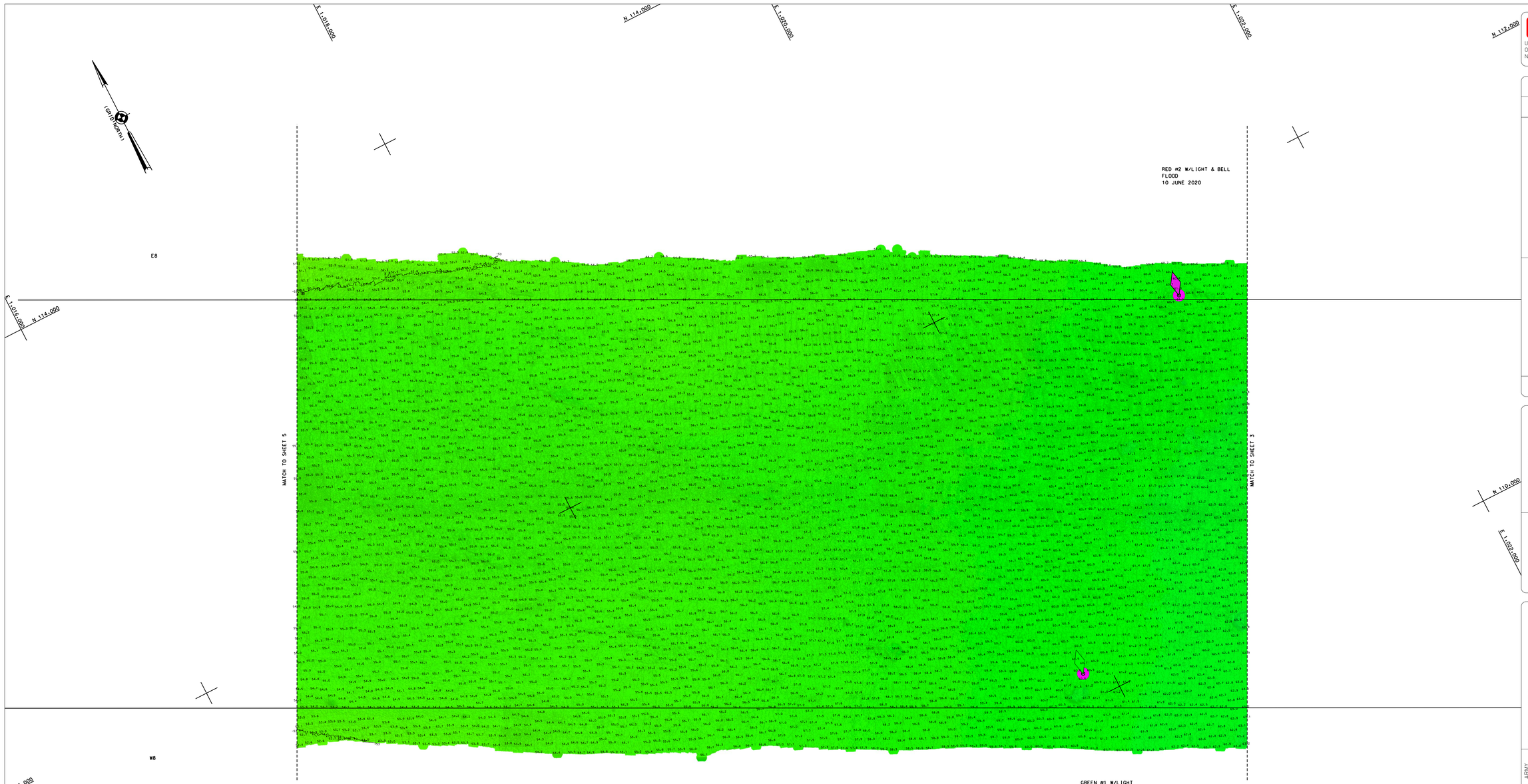
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

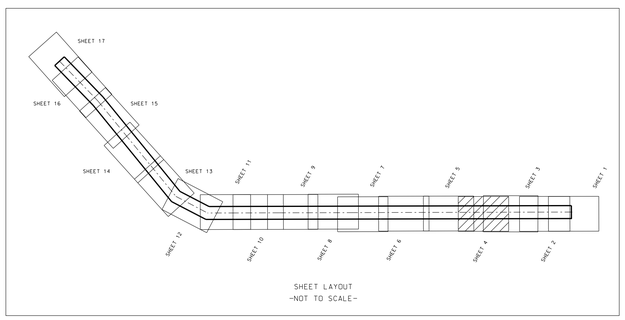
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-103

SHEET 3 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709) ELEVATION:6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION:14.37' (NAVD 1988)

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	ESG
	MP	SG

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD CARTOGRAPHER
APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

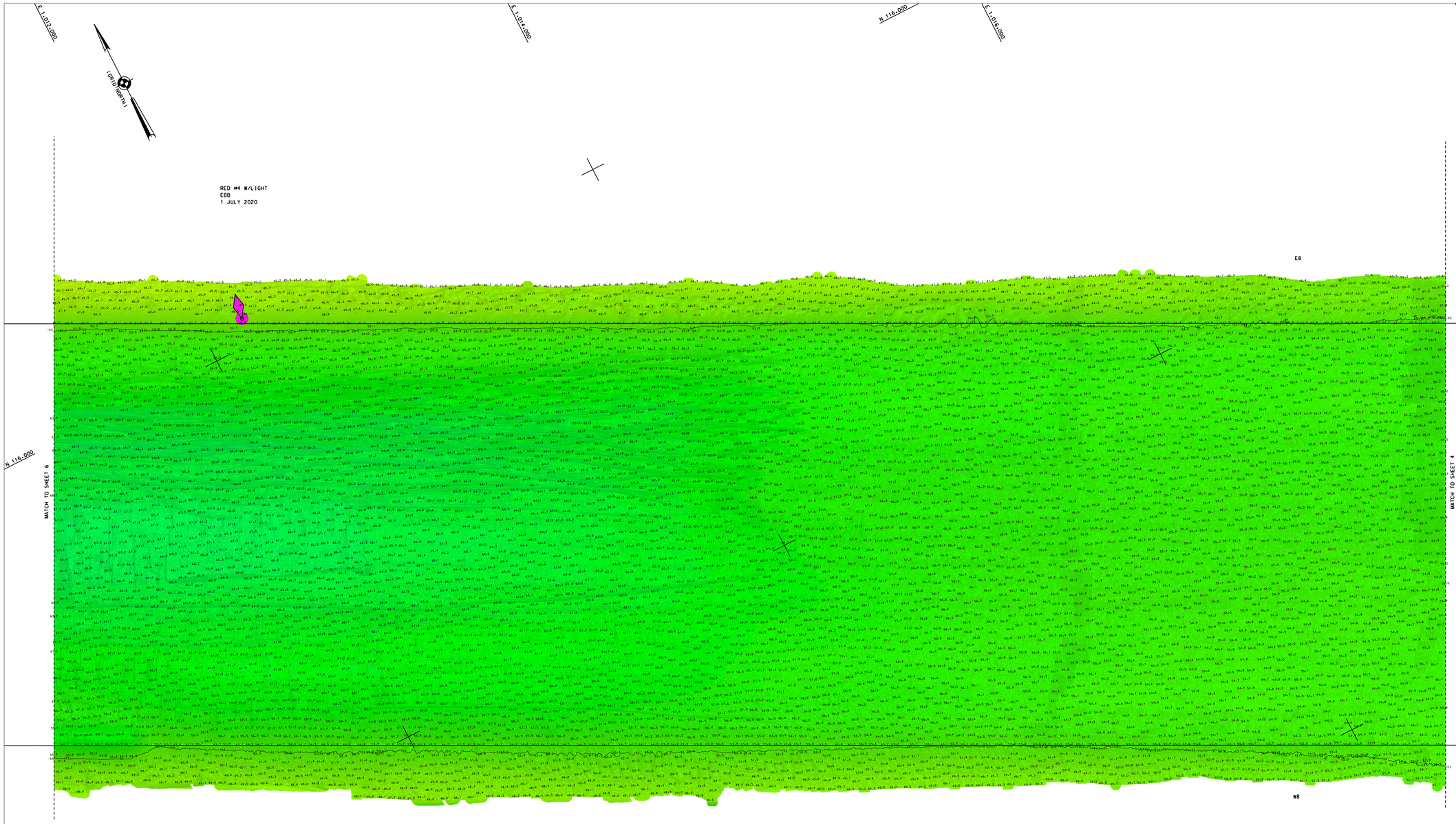
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

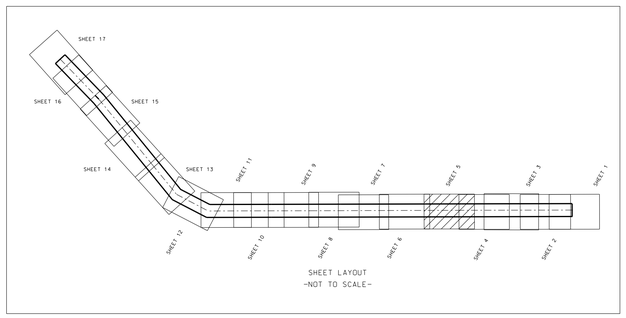
NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-104

SHEET 4 OF 17





NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESG	
MP	SG	

DATES OF SURVEY: 5 JUNE - 28 JULY 2020

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: N/A

REQ. NO./FILE NO.: 4961/D

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

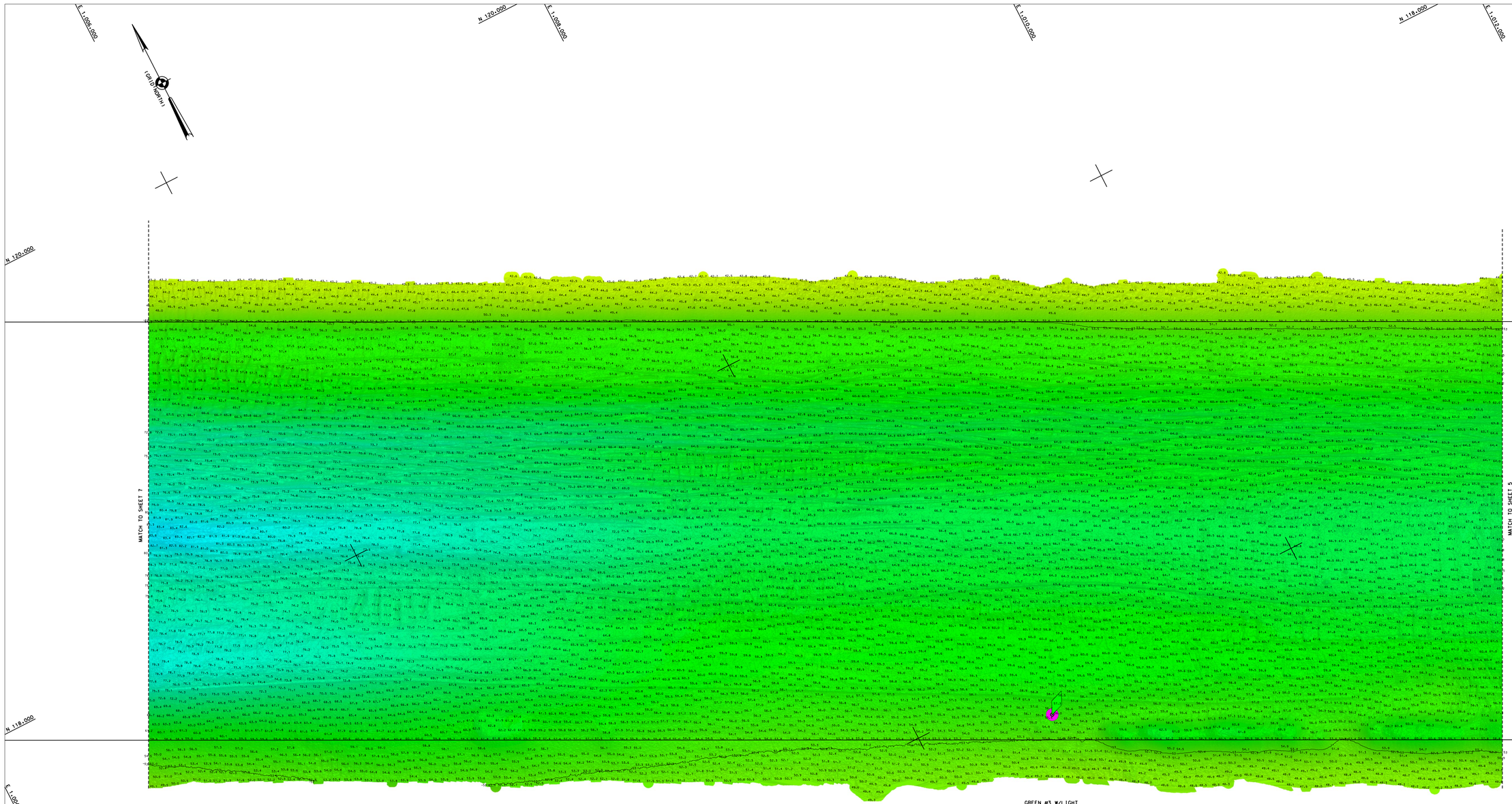
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

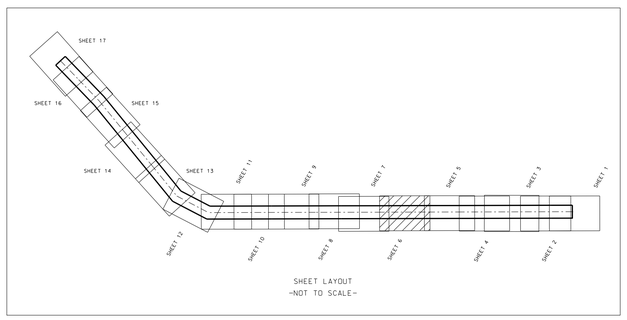
NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-105

SHEET 5 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ	
MP	SG	

DATES OF SURVEY: 2 JUNE - 28 JULY 2020

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: N/A

REQ. NO./FILE NO.: 4961/D

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEER/PROJECT MANAGER
APPROVED: P. BALADJUR — CADD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

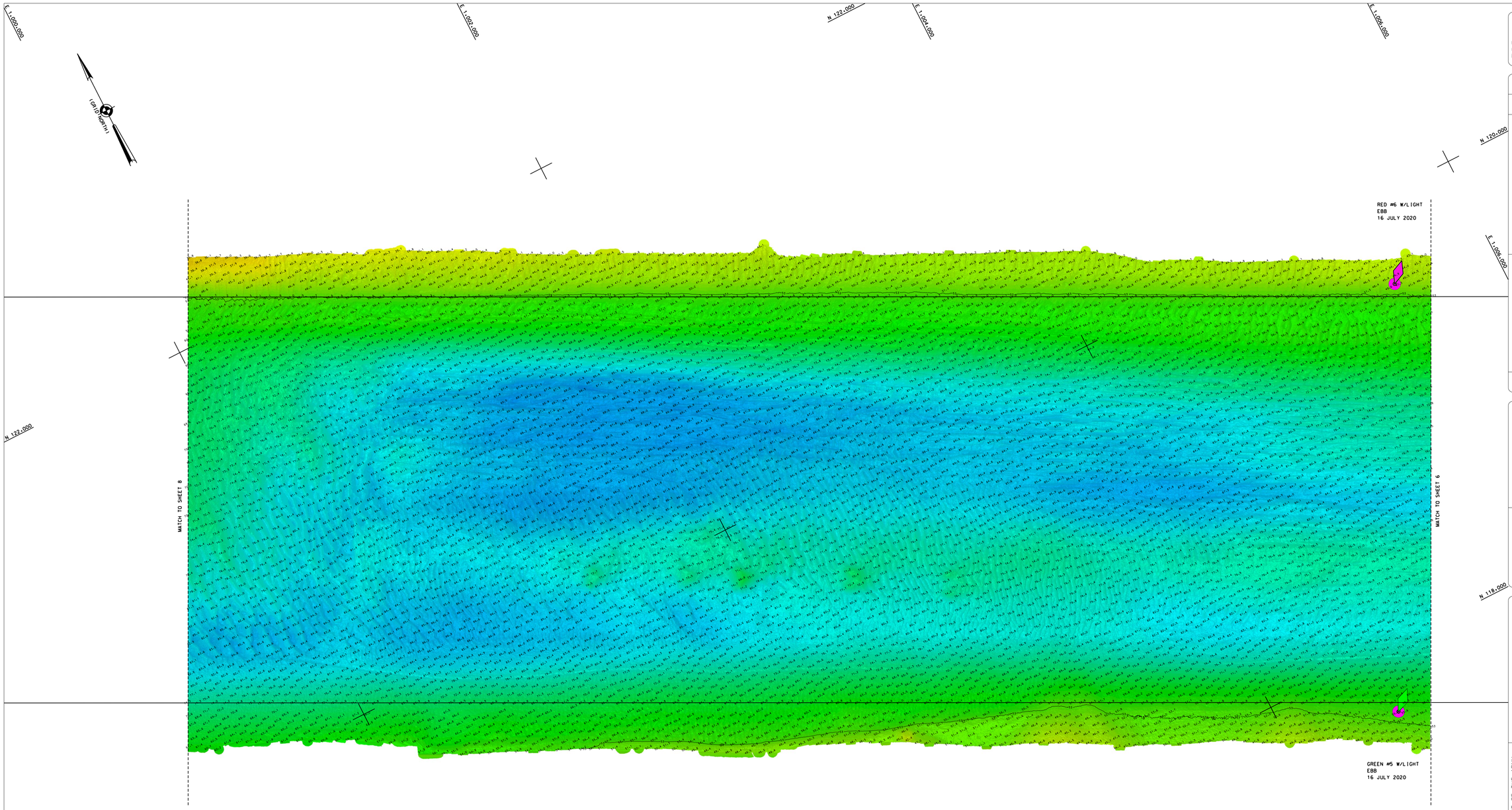
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

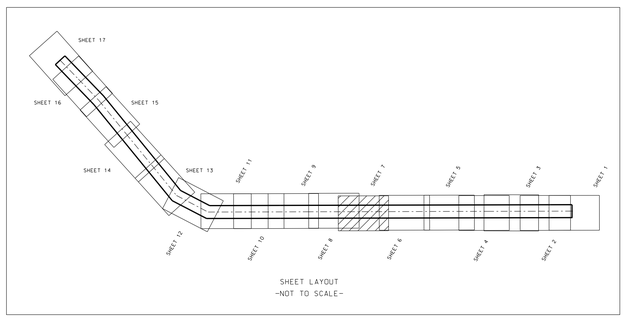
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-106

SHEET 6 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709) ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ	
MP	SG	

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.: 4961/D

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADNER — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-107

SHEET 7 OF 17

N 126,000

E 898,000

E 1,000,000

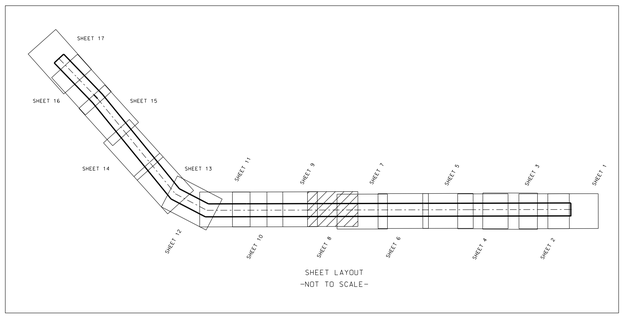
N 124,000

E 1,002,000

E 896,000

N 126,000

(GRID NORTH)

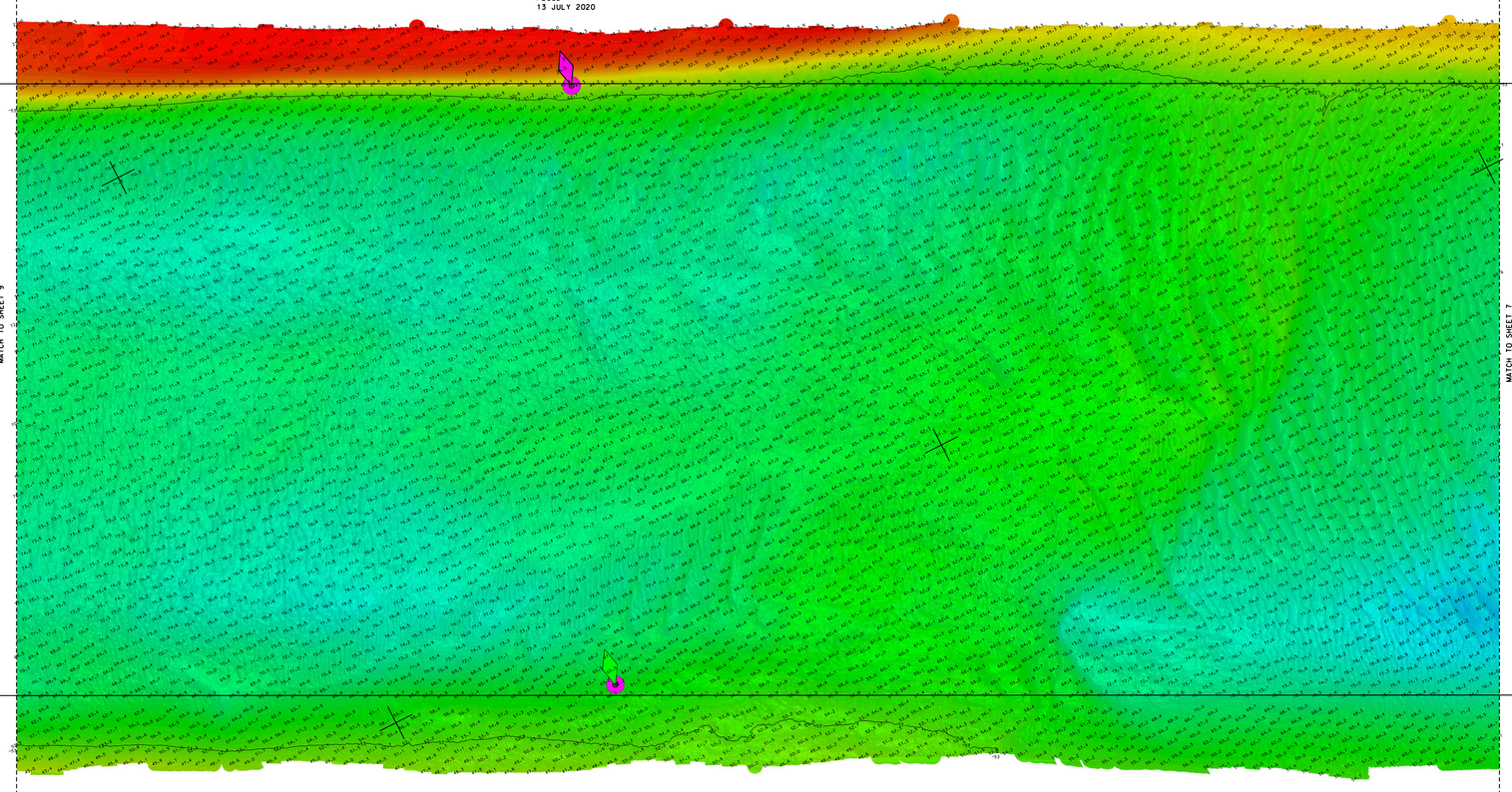


SHEET LAYOUT
-NOT TO SCALE-

N 122,000

E 1,002,000

RED #8 W/LIGHT
FLOOD
13 JULY 2020



N 124,000

MATCH TO SHEET 9

MATCH TO SHEET 7

N 120,000

GREEN #7 W/LIGHT
FLOOD
13 JULY 2020

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION:6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
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N 122,000

E 894,000

E 896,000

N 120,000

E 898,000

E 1,000,000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ	
MP	SG	

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L.L. GEORGE — CHIEF CARTOGRAPHER
APPROVED: M. FORTE — CHIEF, INFORMATION TECHNOLOGY
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

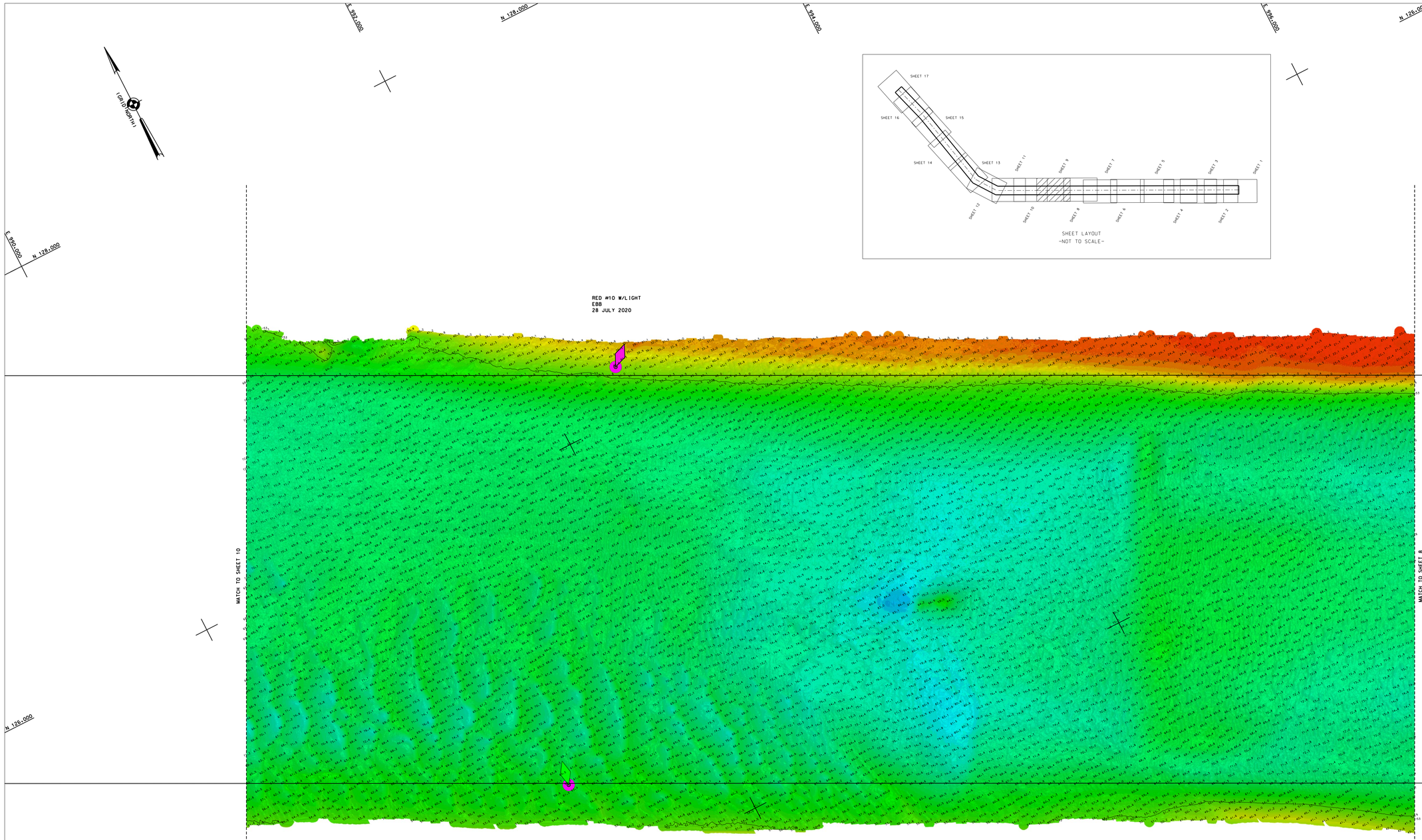
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-108

SHEET 8 OF 17



SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
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.
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- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	ESQ
		WM	SG

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO:14961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADDUR LEAD CARTOGRAPHER
APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

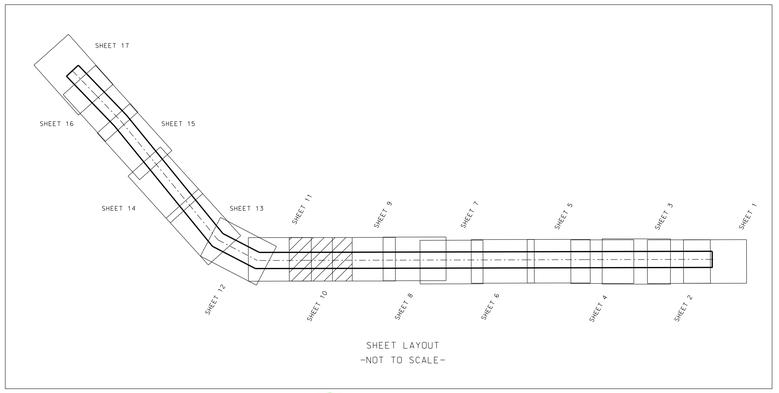
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL

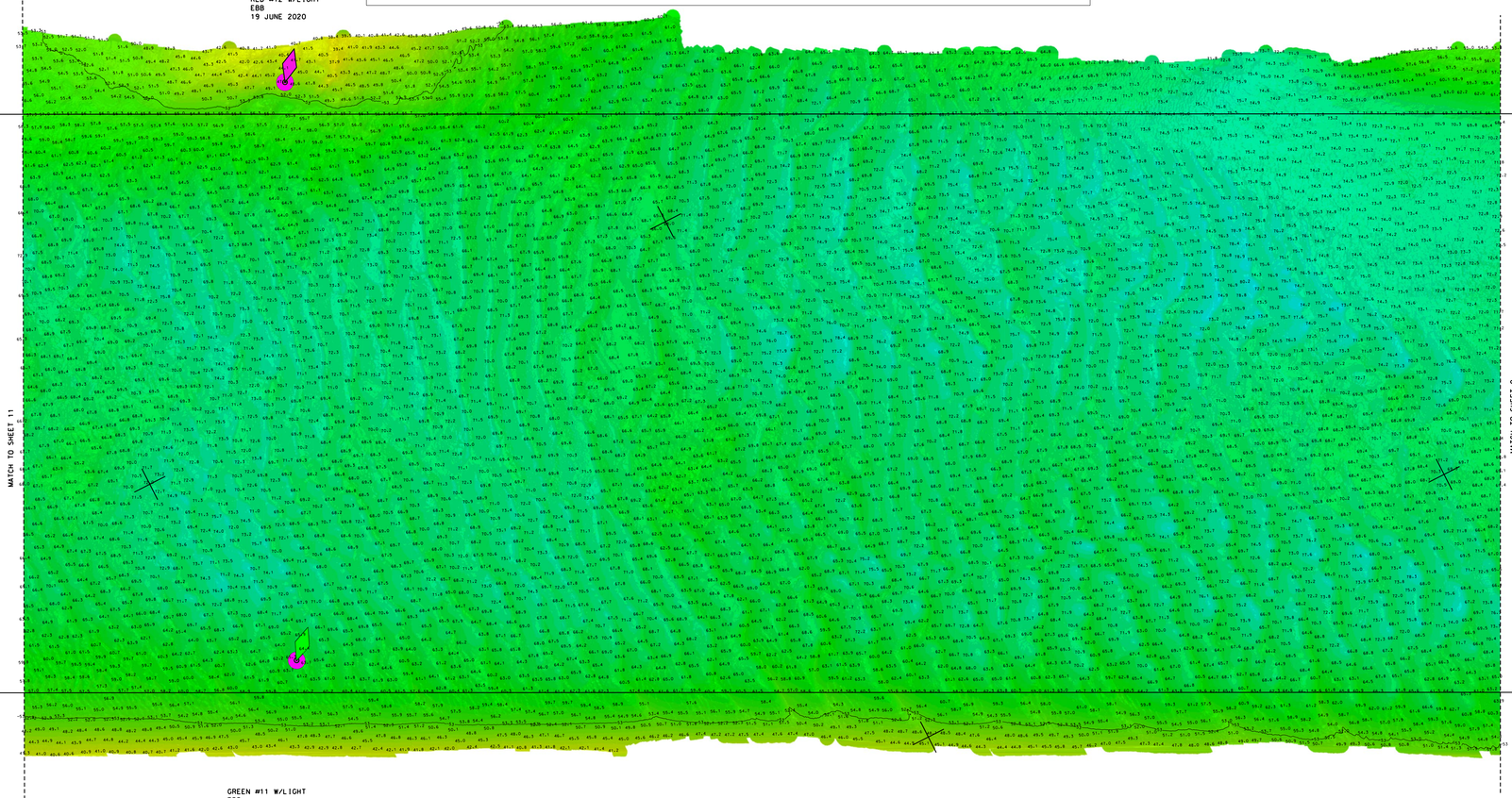
CONDITION SURVEY

VH-109

SHEET 9 OF 17



SHEET LAYOUT
-NOT TO SCALE-



NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0T09) ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

		PR	ESQ
		MP	SG

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.:14961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L.L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

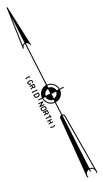
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

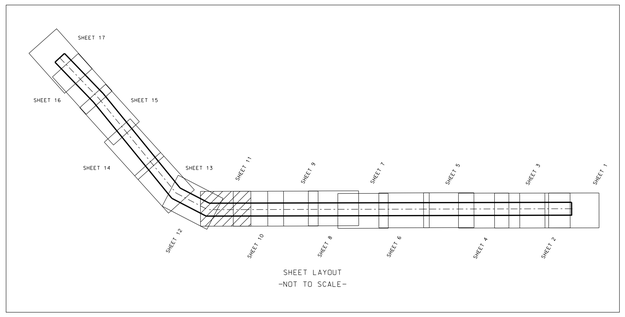
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

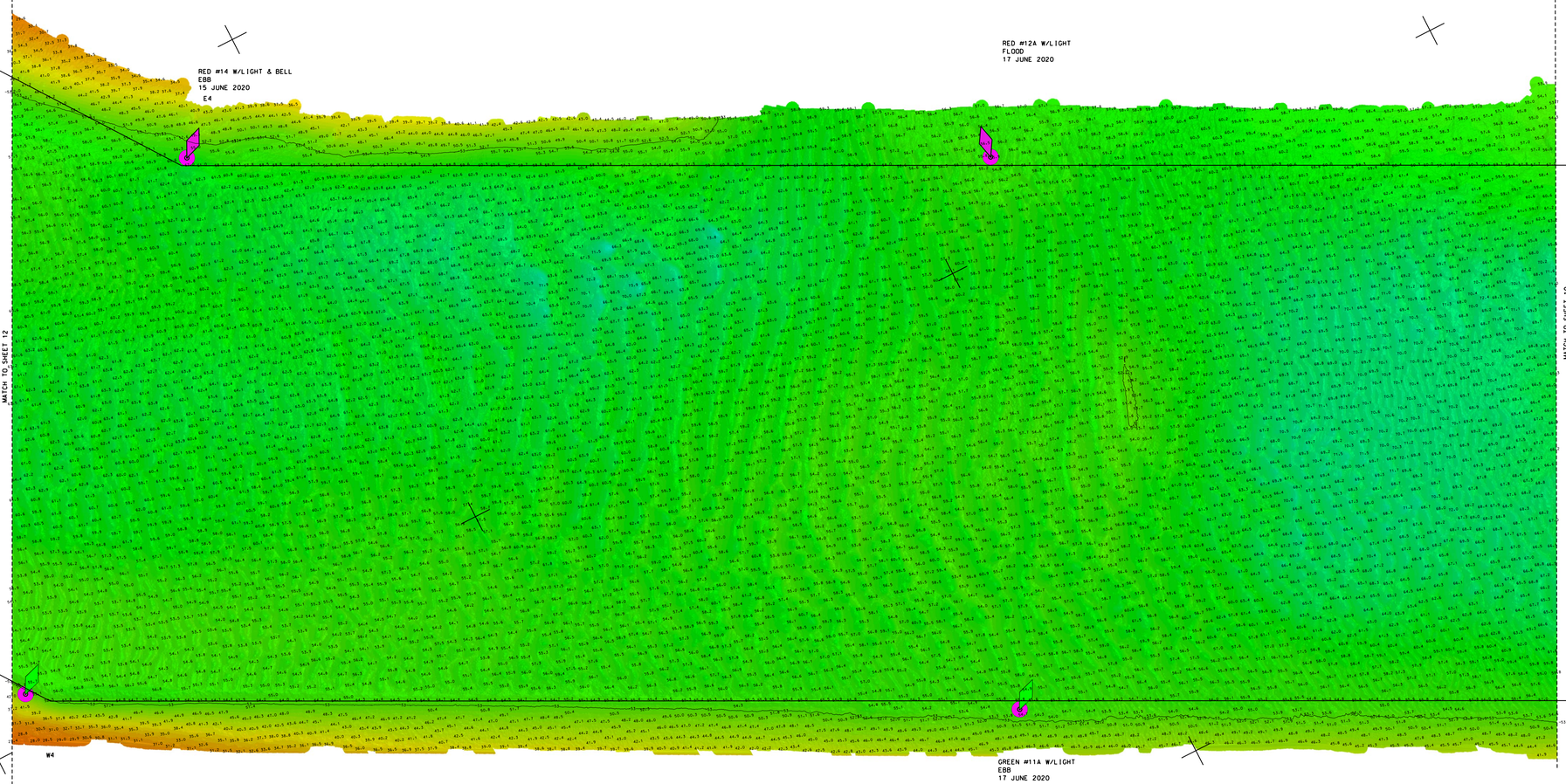
VH-110

SHEET 10 OF 17





SHEET LAYOUT
-NOT TO SCALE-



NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ		
MP	SG		

DATES OF SURVEY:
2 JUNE - 28 JULY 2020

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:14961/D

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADJUR — CAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

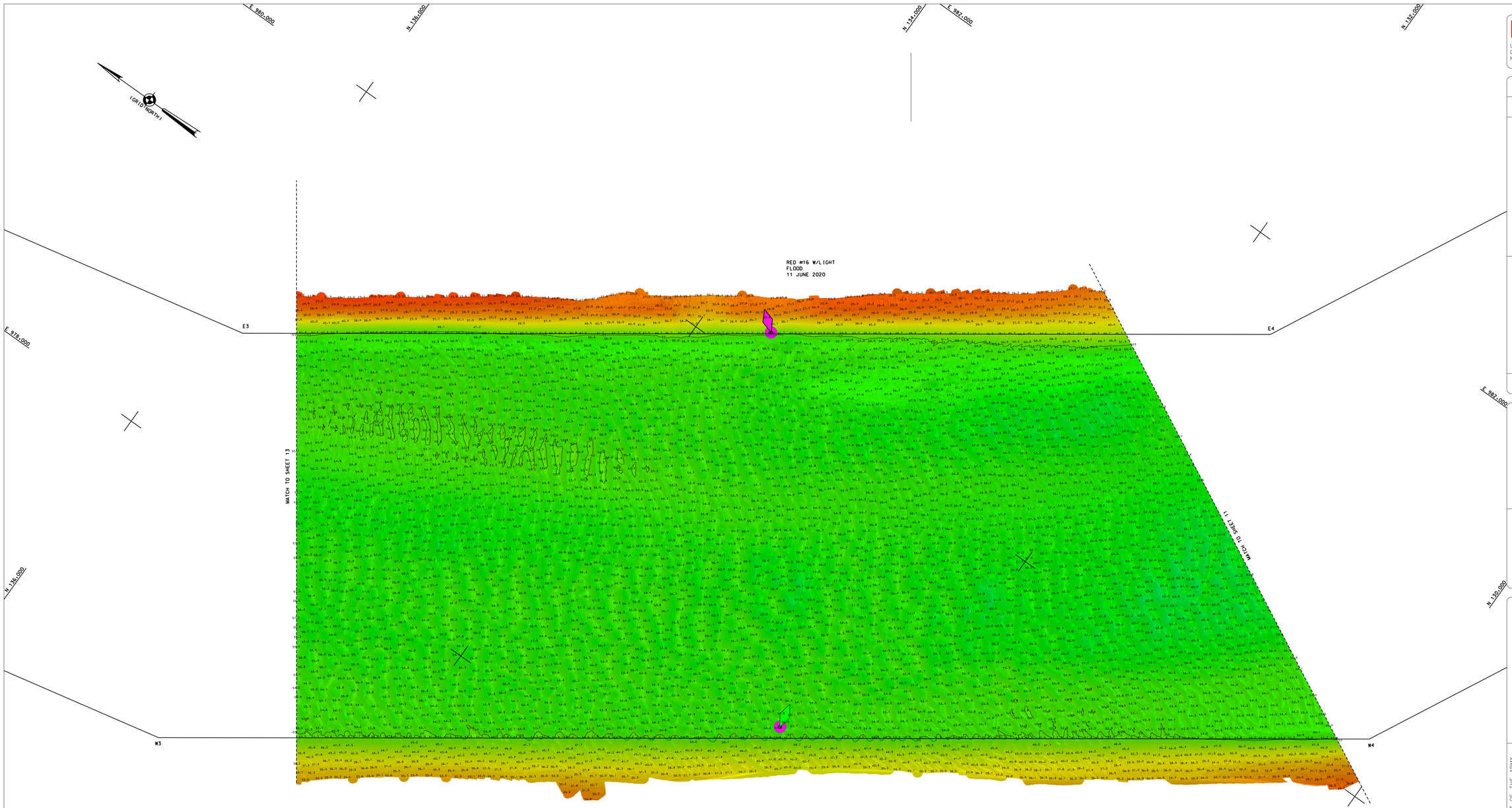
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

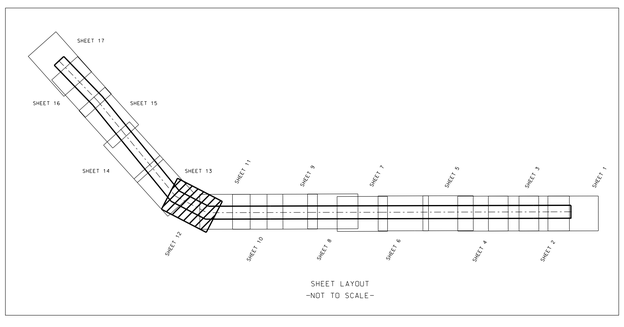
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-111

SHEET 11 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709)
ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257)
ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	ESQ
		MP	SG

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.:4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADJUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

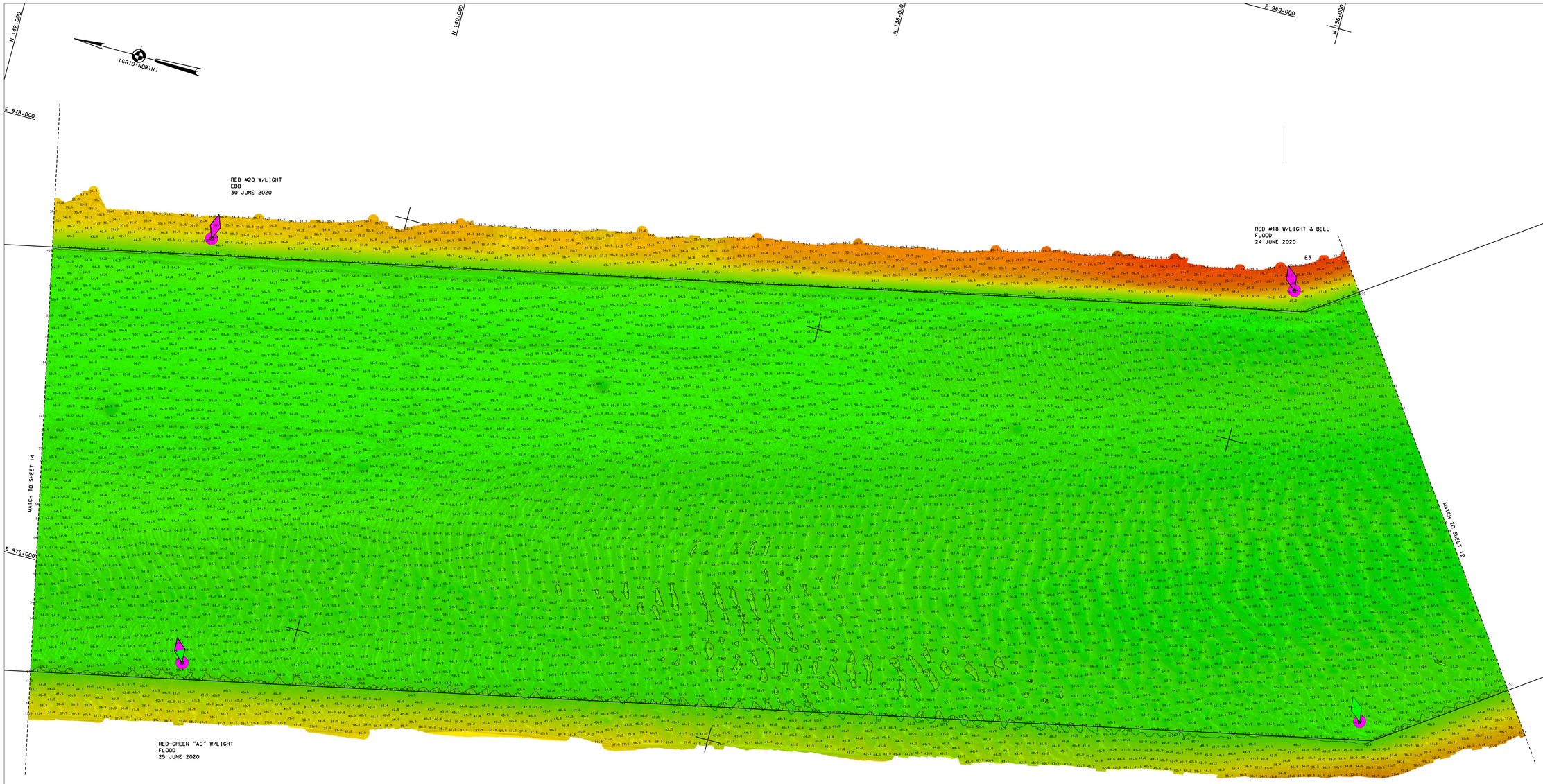
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

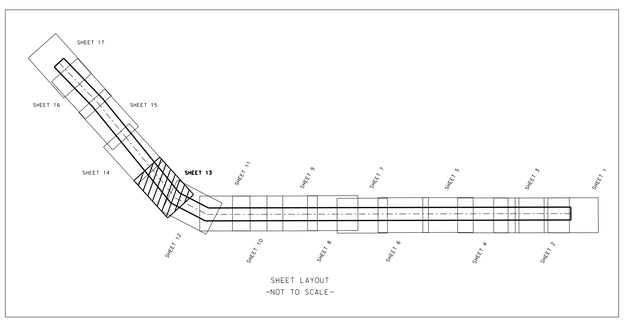
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-112

SHEET 12 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK	
BENCHMARK:	SIMPSON 2 (PID: KV0709)
ELEVATION:	6.92' (NAVD 1988)

LOCAL CONTROL DATA	
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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESQ	
MP	SG	

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

RED. NO./FILE NO.: 4961/0

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L.L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADDUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

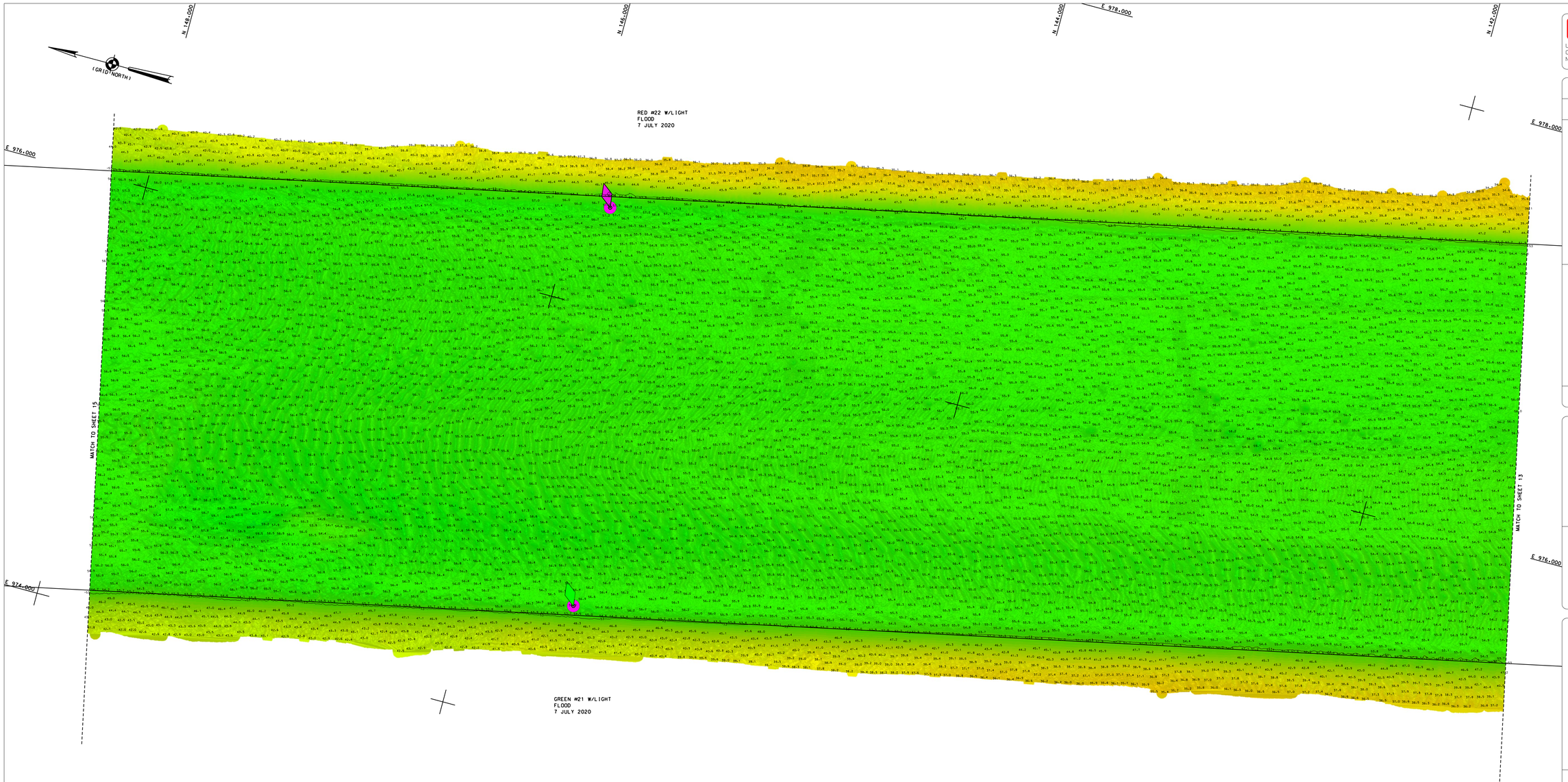
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

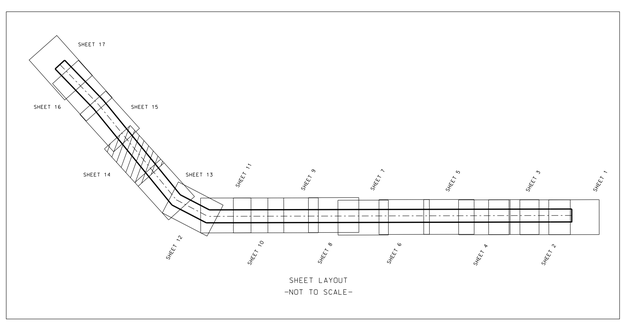
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-113

SHEET 13 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (PID: KV0709) ELEVATION: 6.92' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: F 342 (PID: KU1257) ELEVATION: 14.37' (NAVD 1988)

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESG
MP	SG

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.: 4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE FIELD SUPERVISOR
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD SUPERVISOR
APPROVED: J. MRAZ BRANCH CHIEF OF SURVEY
DATE: 5 AUGUST 2020

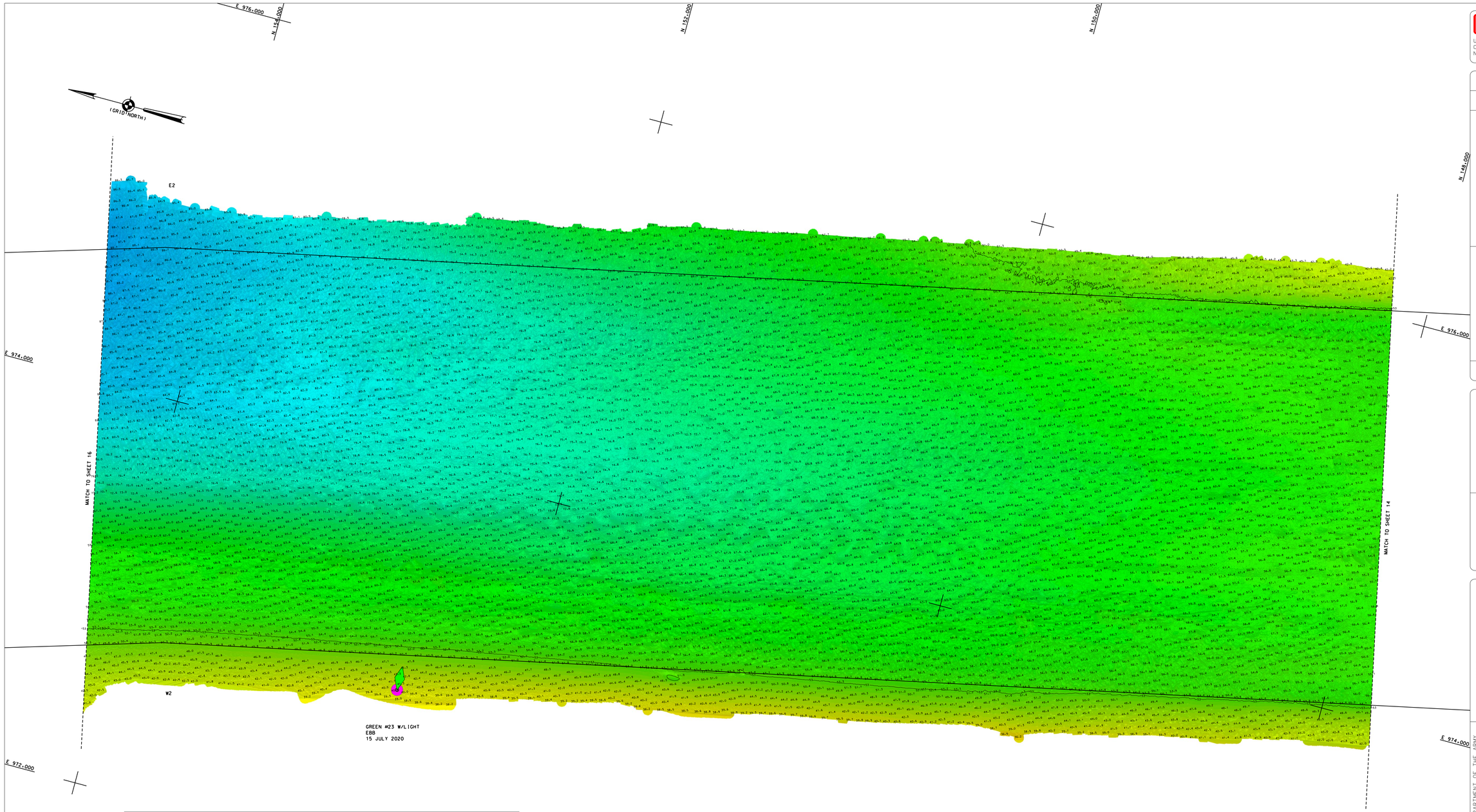
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

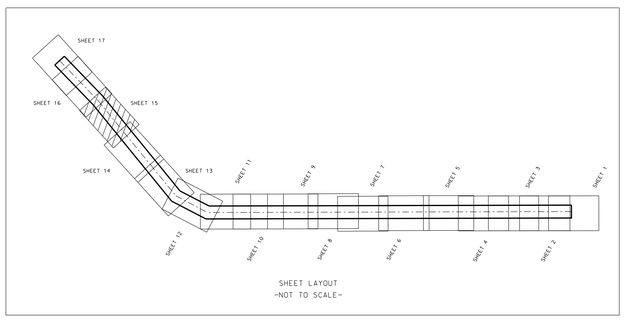
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-114

SHEET 14 OF 17





SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK	
BENCHMARK:	SIMPSON 2 (PID: KV0709)
ELEVATION:	6.92' (NAVD 1988)

LOCAL CONTROL DATA	
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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

MP	PR	ESQ
	SG	

DATES OF SURVEY:
2 JUNE - 28 JULY 2020

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.: 4961/D

APPROVED: L. GEORGE
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CHIEF, HYDROGRAPHIC SURVEYS

APPROVED: P. BHADUR
CHIEF CARTOGRAPHER

APPROVED: J. MIRAZ
DEPUTY CHIEF OF SURVEY

DATE: 3 AUGUST 2020

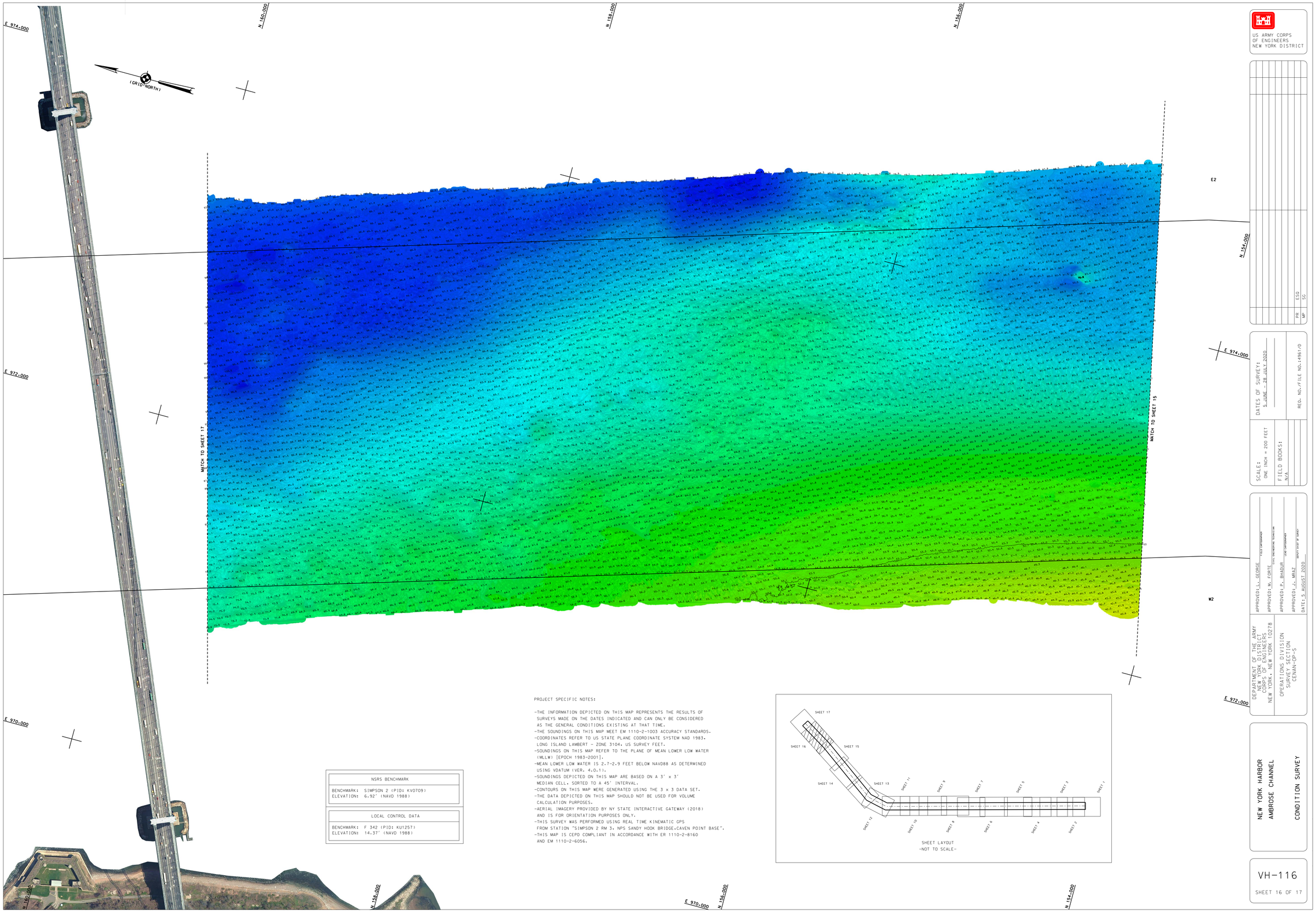
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
FORT DE RUSSEY
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-115

SHEET 15 OF 17



NSRS BENCHMARK
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LOCAL CONTROL DATA
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- AERIAL IMAGERY PROVIDED BY NY STATE INTERACTIVE GATEWAY (2018) AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "SIMPSON 2 RM 3. NPS SANDY HOOK BRIDGE.CAVEN POINT BASE".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SHEET LAYOUT
-NOT TO SCALE-

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESG	
MP	SG	

DATES OF SURVEY:
5 JUNE - 28 JULY 2020

REQ. NO./FILE NO.:4961/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADJUR — CAD CARTOGRAPHER
APPROVED: J. MRAZ — SURVEY CHIEF OF SURVEY
DATE: 5 AUGUST 2020

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

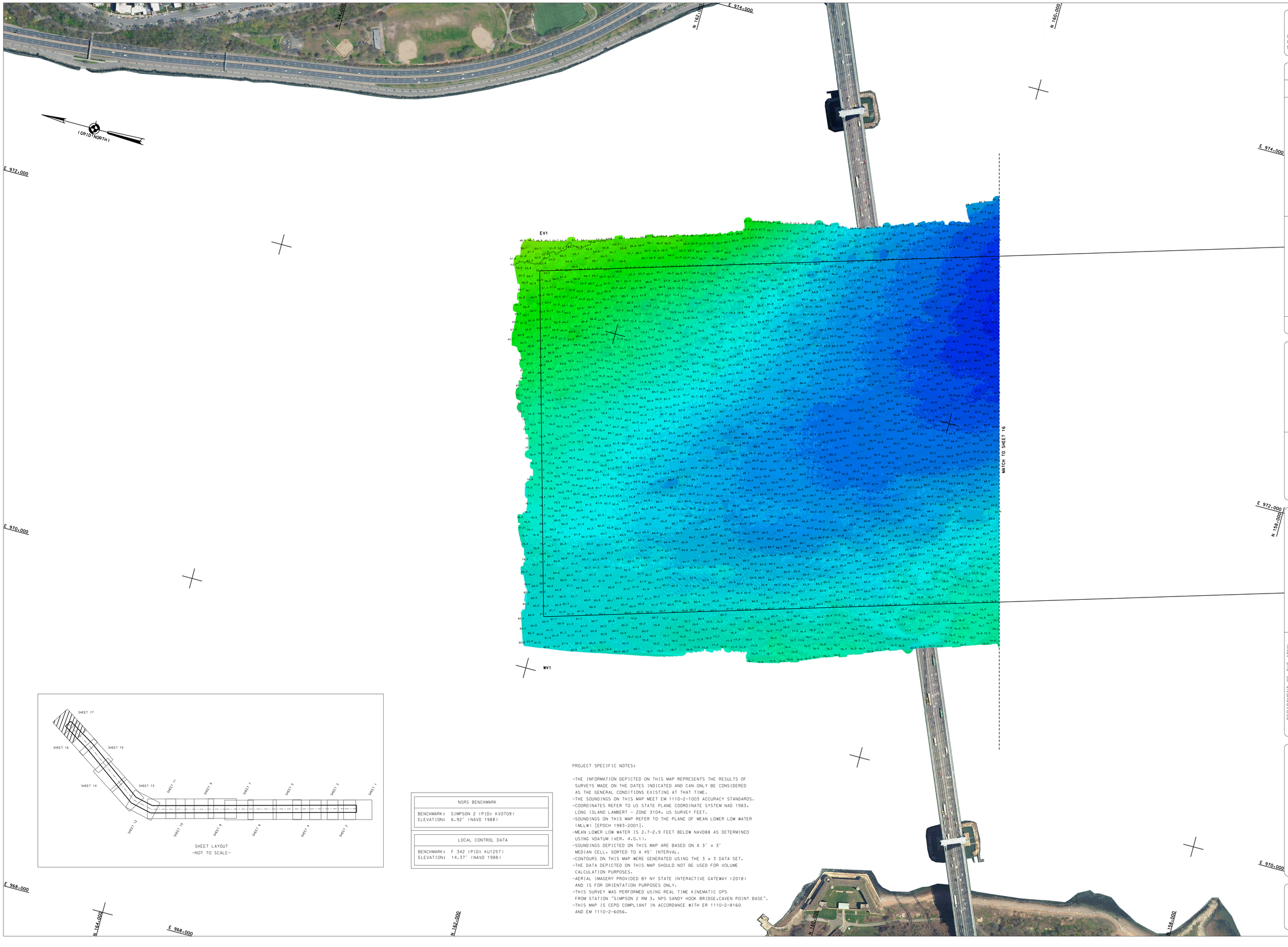
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-116

SHEET 16 OF 17



SHEET LAYOUT
-NOT TO SCALE-

NSRS BENCHMARK	
BENCHMARK:	SIMPSON 2 (PID: KV0709)
ELEVATION:	6.92' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	F 342 (PID: KU1257)
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.
- 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. 4.0.1).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 45' INTERVAL.
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PM	ESQ	
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SHEET 17 OF 17