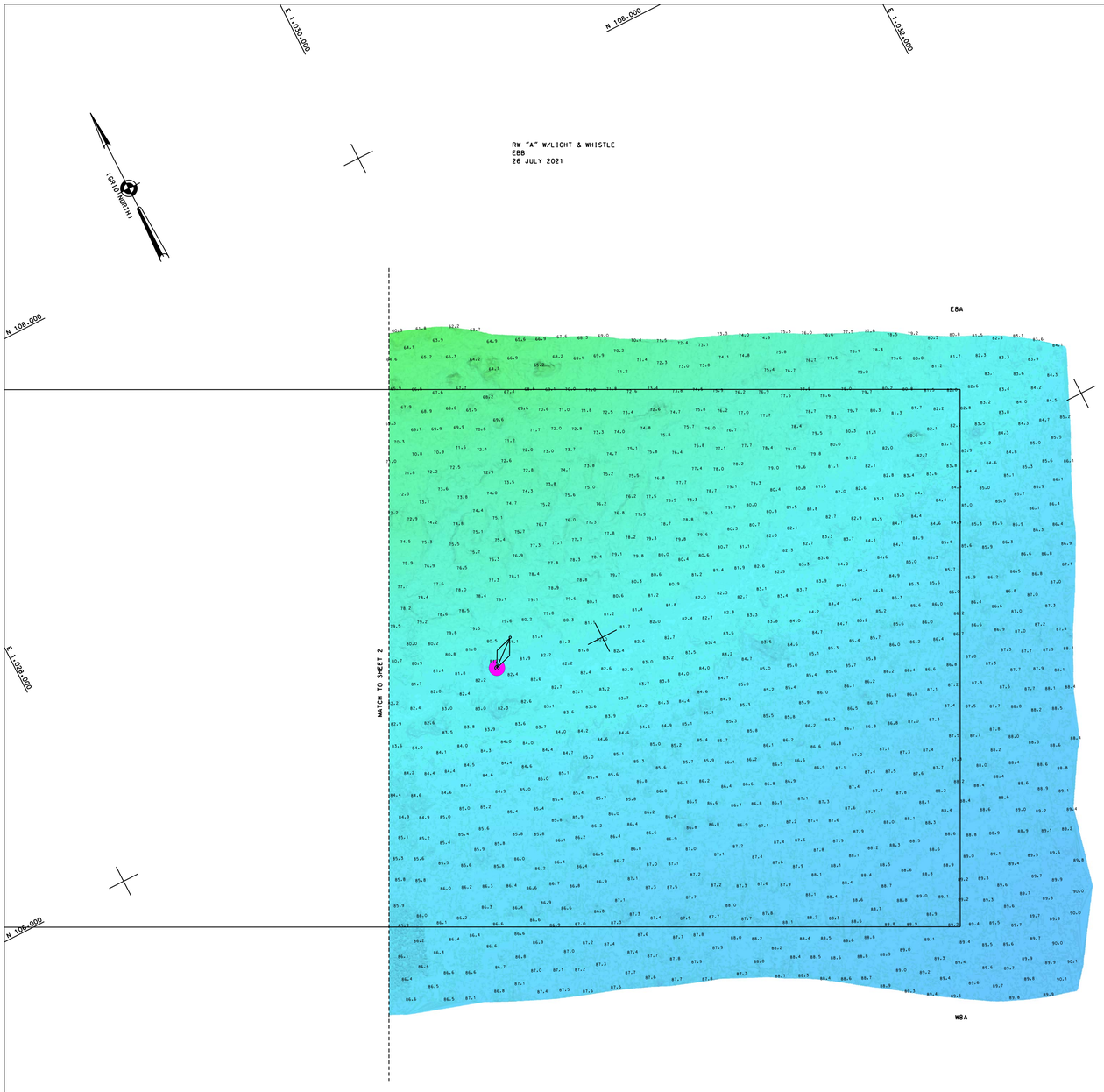
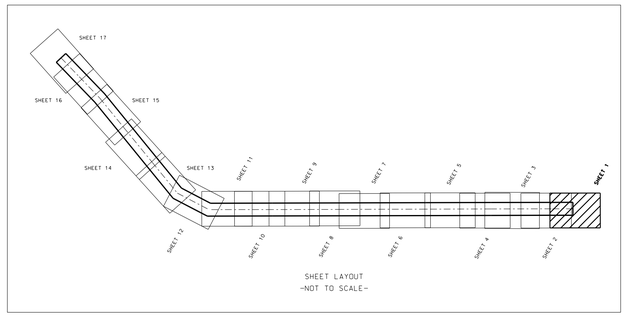




SHEET LAYOUT
-NOT TO SCALE-

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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT".
-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	EG		
MP	SG		

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:15085/D/N3

APPROVED: P. KEARNS, Jr. BERTO CITI
CHIEF, CARTOGRAPHY

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BRABAUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

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

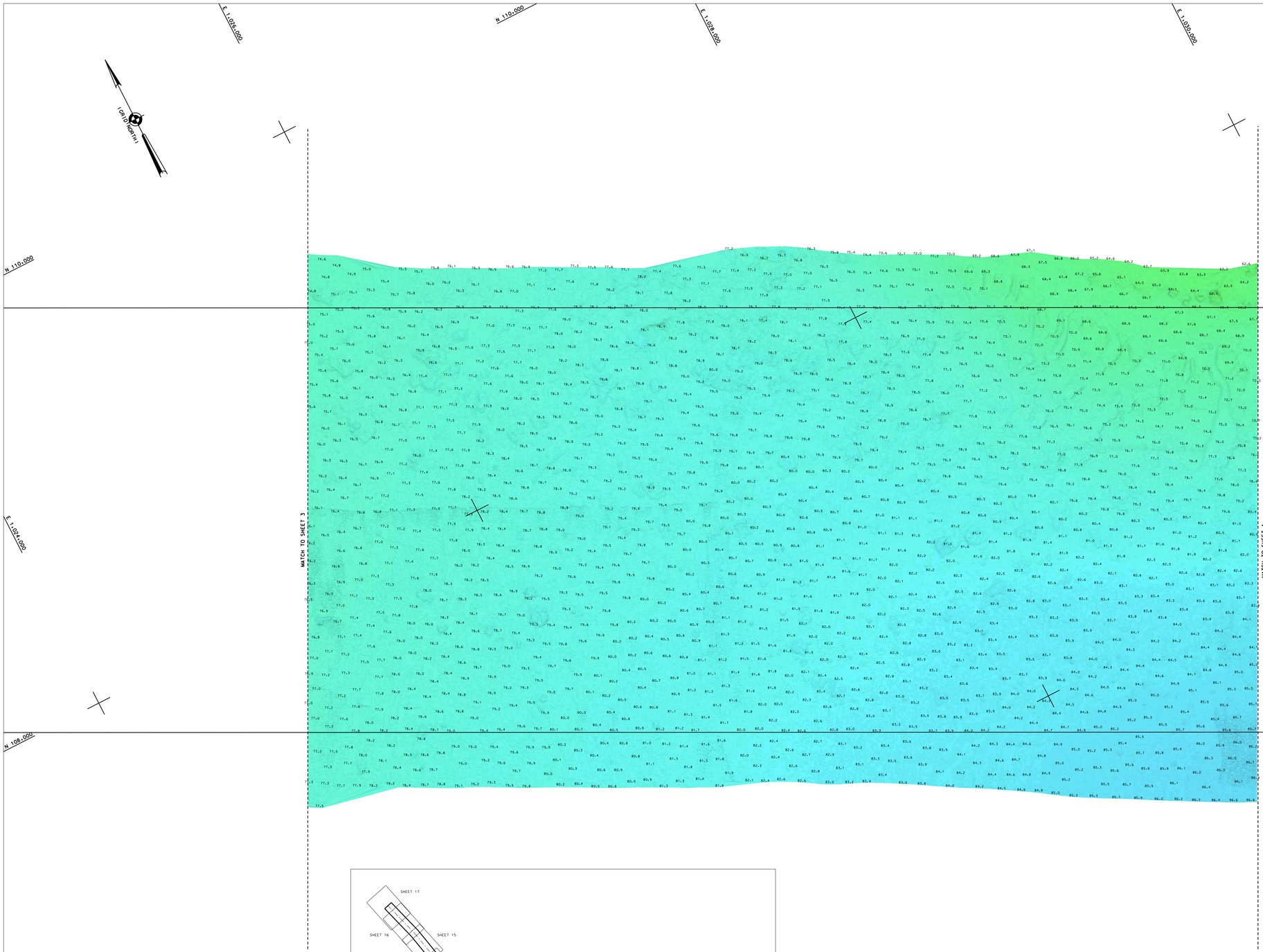
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

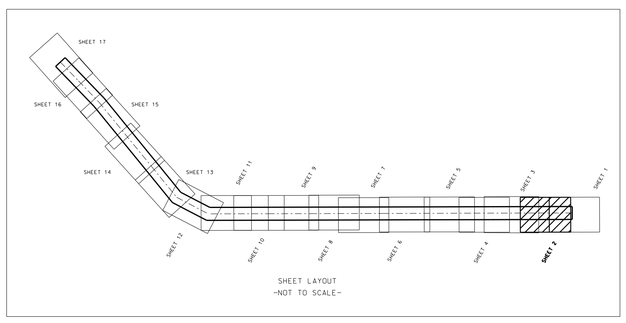
NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-101

SHEET 1 OF 17





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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	ED	
MP	SG	

DATES OF SURVEY:
5x1:16x2:20 JULY 2021
2x3:4x5:8 AUGUST 2021
1:12x13:16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:5085/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, SURVEY & MAPPING BRANCH
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR
CHIEF CARTOGRAPHER
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 25 AUGUST 2021

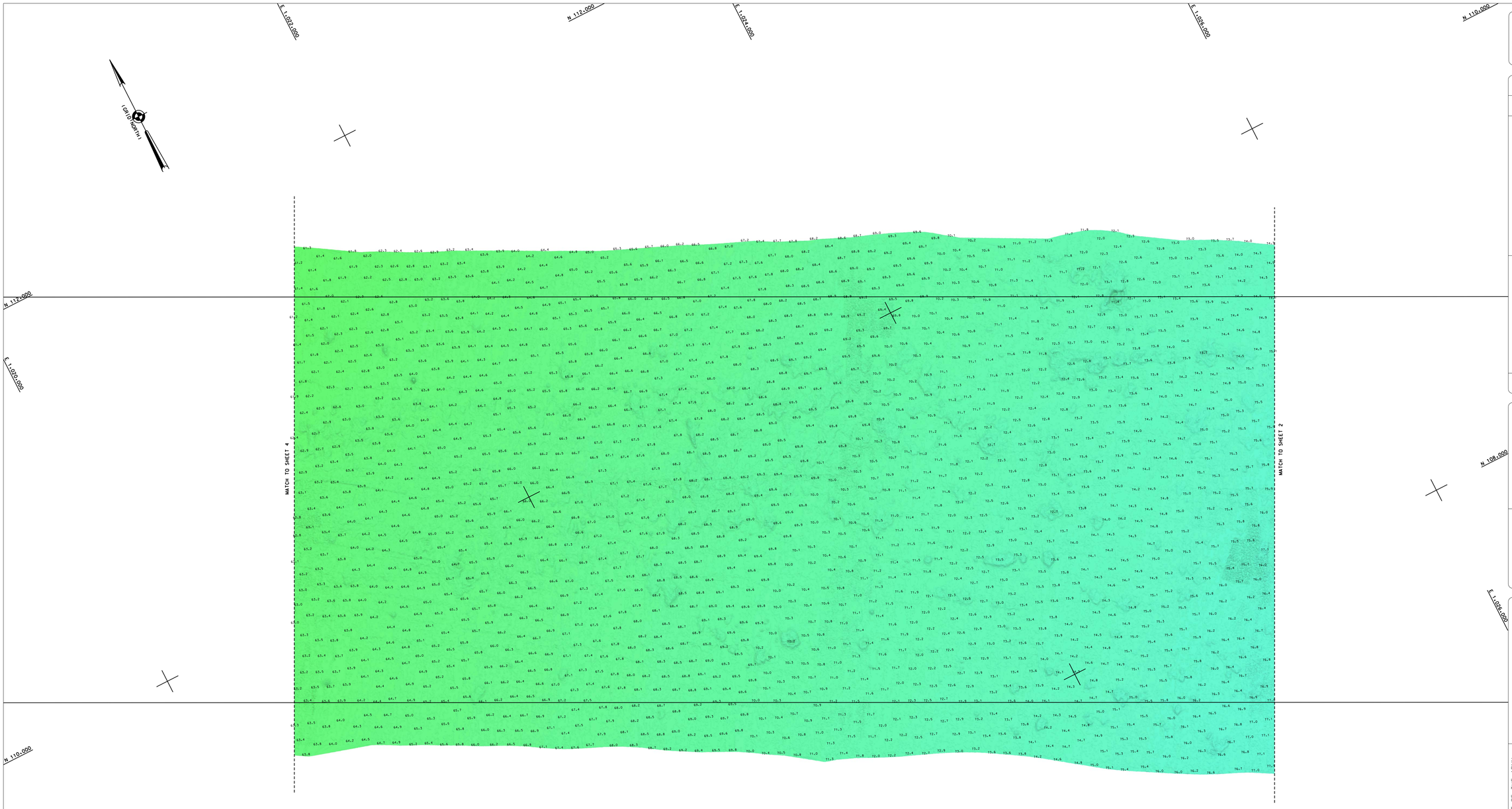
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

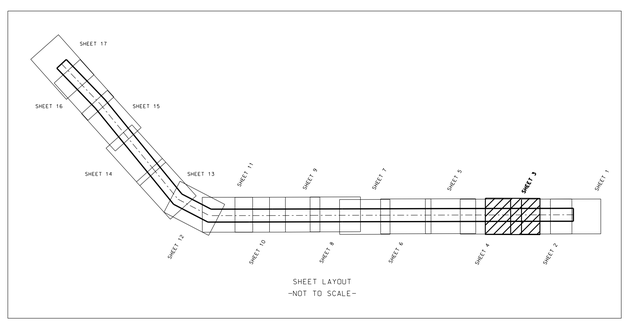
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-102

SHEET 2 OF 17





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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
		MP	SC

DATES OF SURVEY:
2021: 4,5,6 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: N/A

REQ. NO./FILE NO.:15085/O/N3

APPROVED: P. KEARNS, J. BERTOLOTTI — FIELD CARTOGRAPHERS
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADJER — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 26 AUGUST 2021

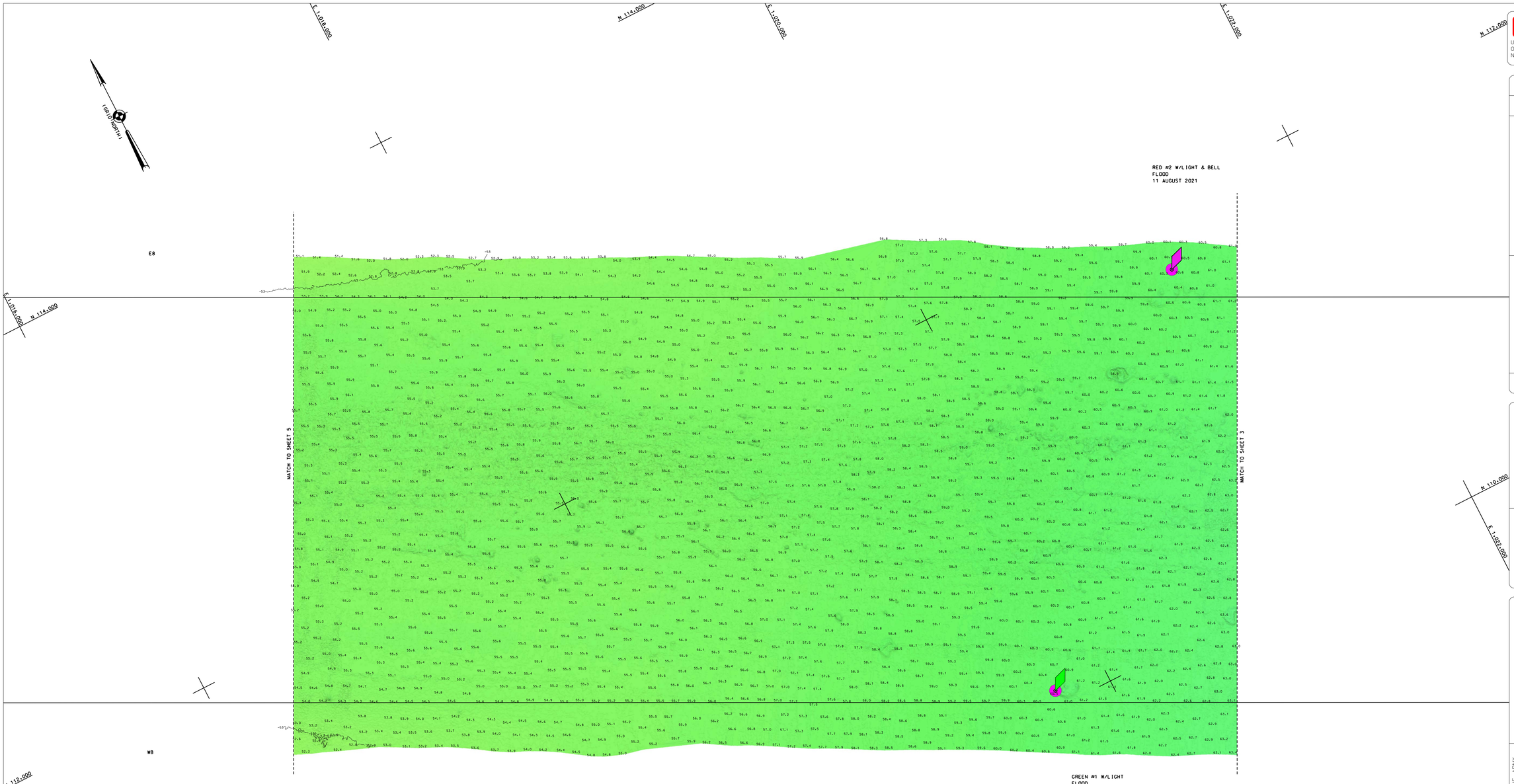
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

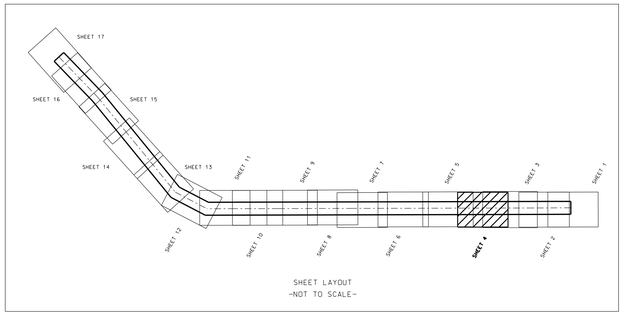
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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)

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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
	MP	SG

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

REQ. NO./FILE NO.:15085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING DIVISION

APPROVED: P. BHADUR
CHIEF, CARTOGRAPHY

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

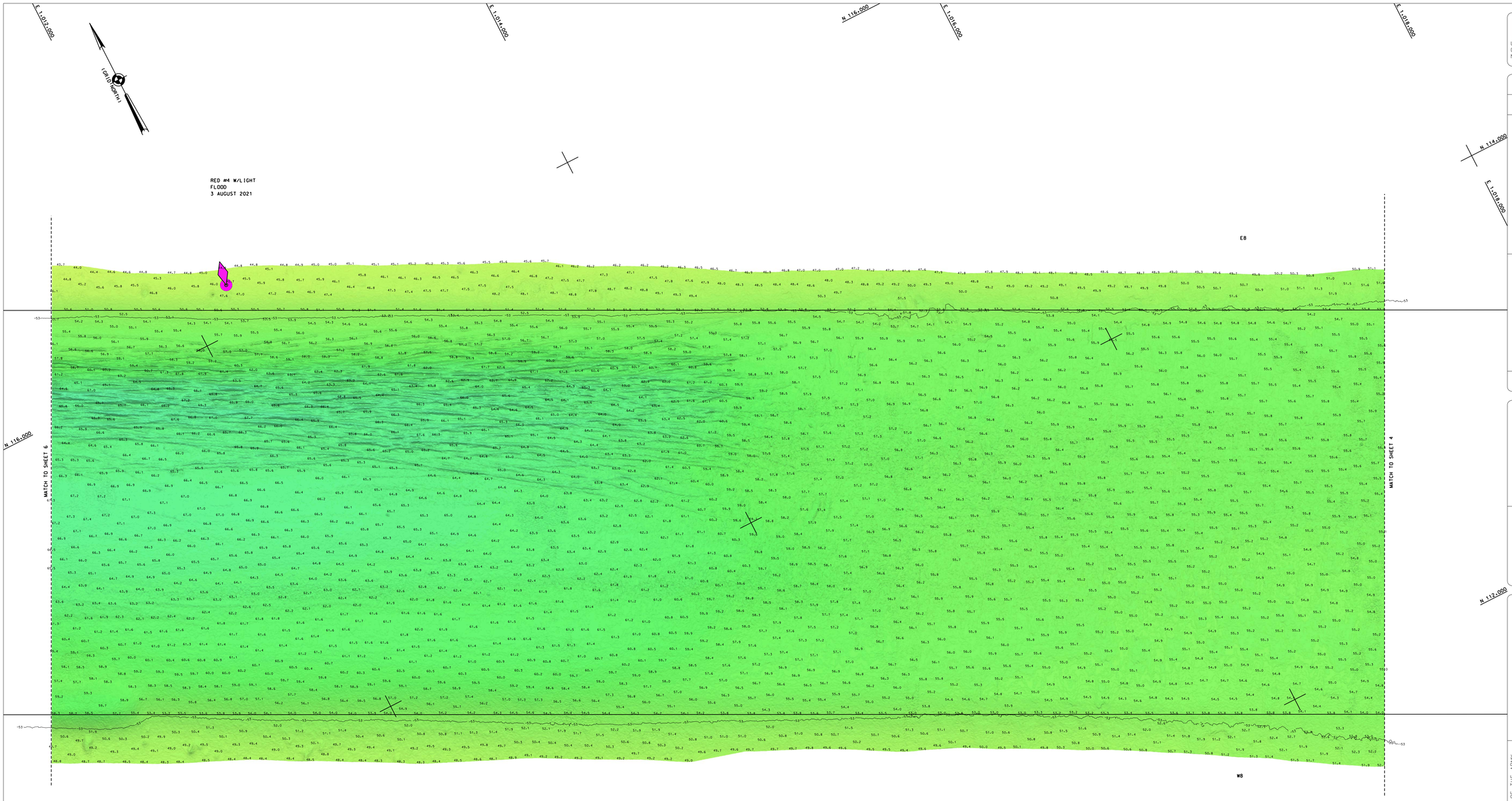
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

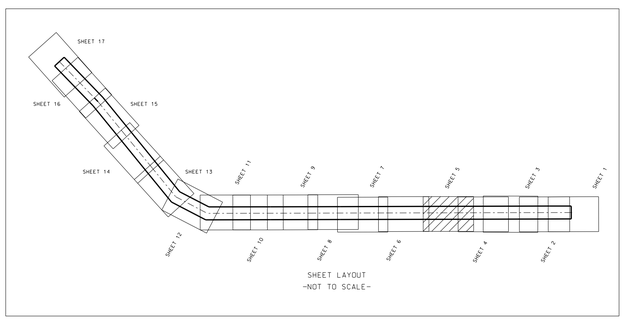
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-104

SHEET 4 OF 17





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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
MP	SG

DATES OF SURVEY:
20;21;26;27;30 JULY 2021
2;3;4;5;9 AUGUST 2021
11;12;13;16 AUGUST 2021

REQ. NO./FILE NO.:15085/O/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOTTI
TIDE CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

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

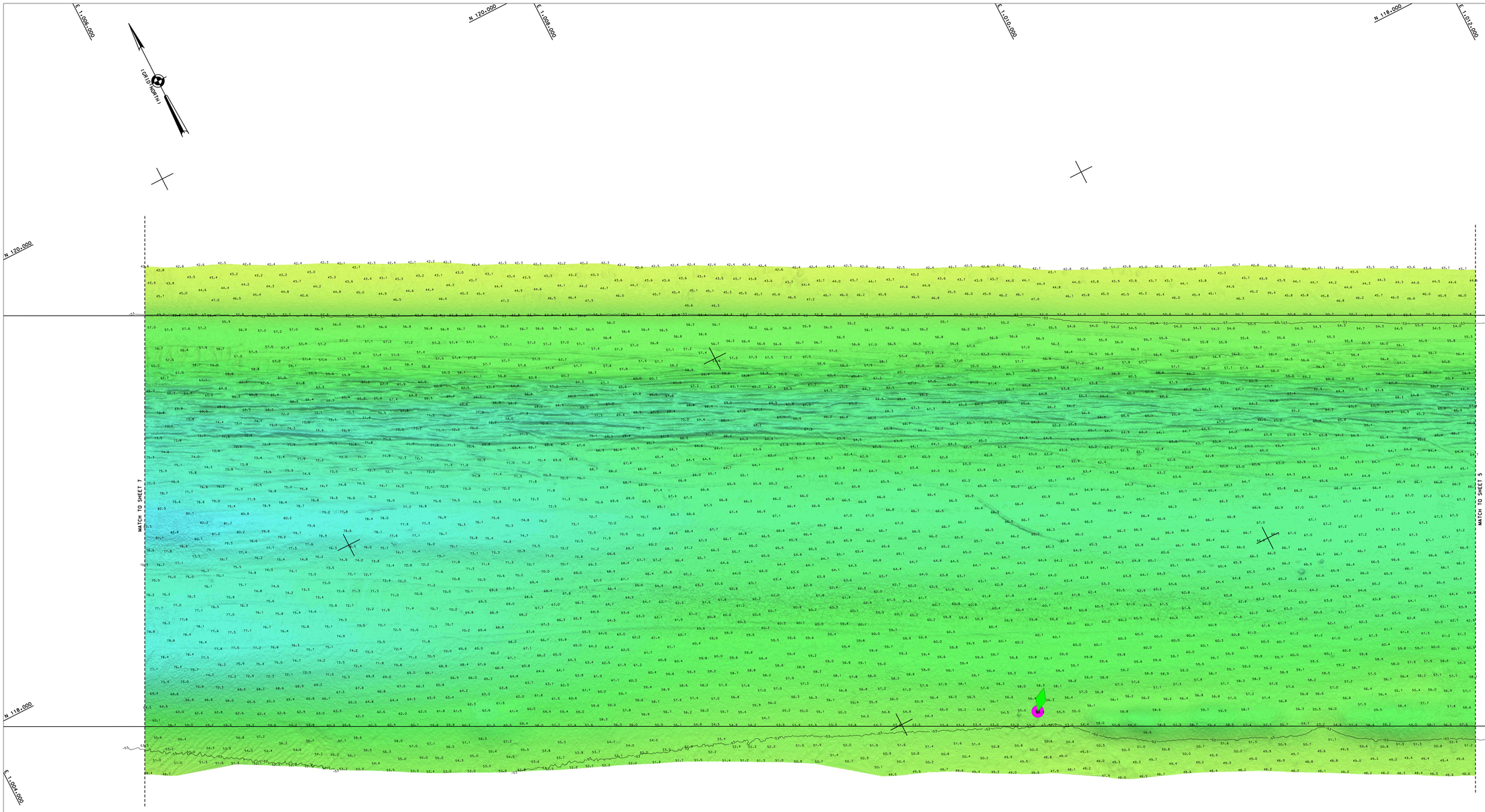
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL

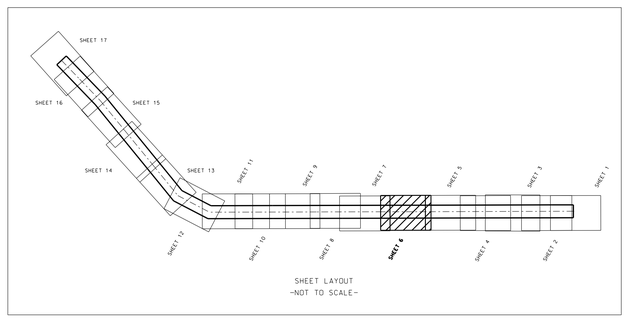
CONDITION SURVEY

VH-105

SHEET 5 OF 17



GREEN #3 W/LIGHT
EBB
2 AUGUST 2021



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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EG	
MP	SG	

DATES OF SURVEY:
20x1,26x1,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: N/A

REQ. NO./FILE NO.:50958/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, HYDROGRAPHIC SURVEYS & NAVIGATION

APPROVED: M. FORTE
CHIEF, CARTOGRAPHIC TECHNICIAN

APPROVED: P. BHADUR
CHIEF, CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 26 AUGUST 2021

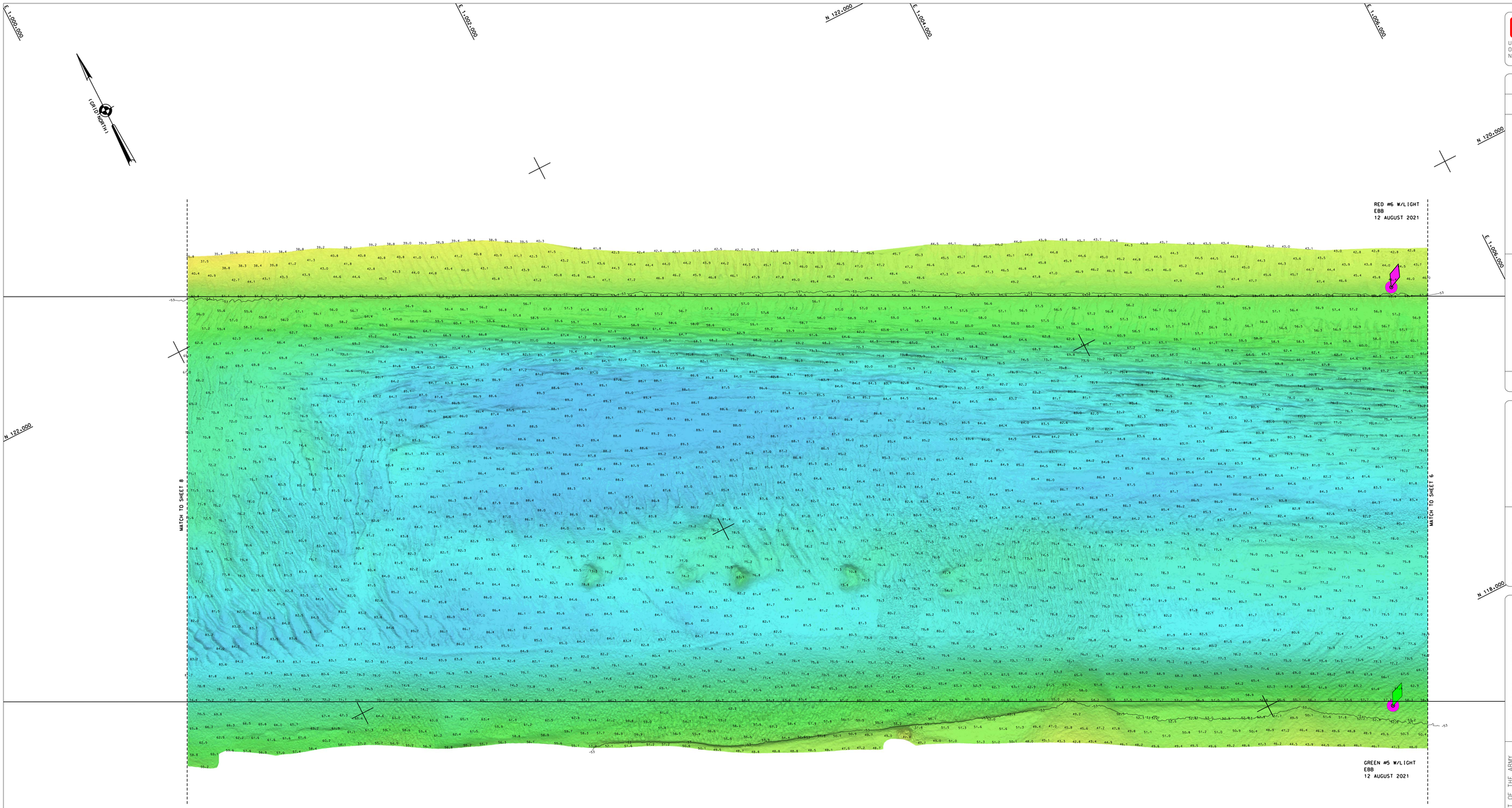
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

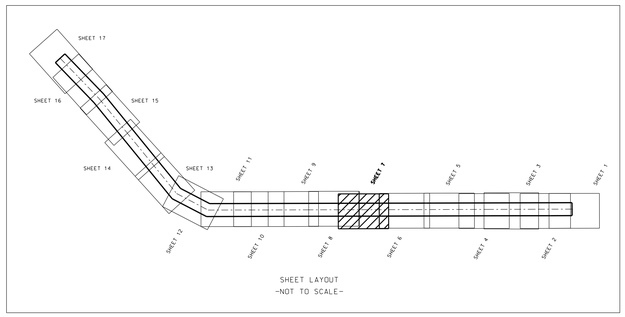
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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)

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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ	
MP	SG	

DATES OF SURVEY:
20,24,25,26 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO: 15085/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BRADNER
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 26 AUGUST 2021

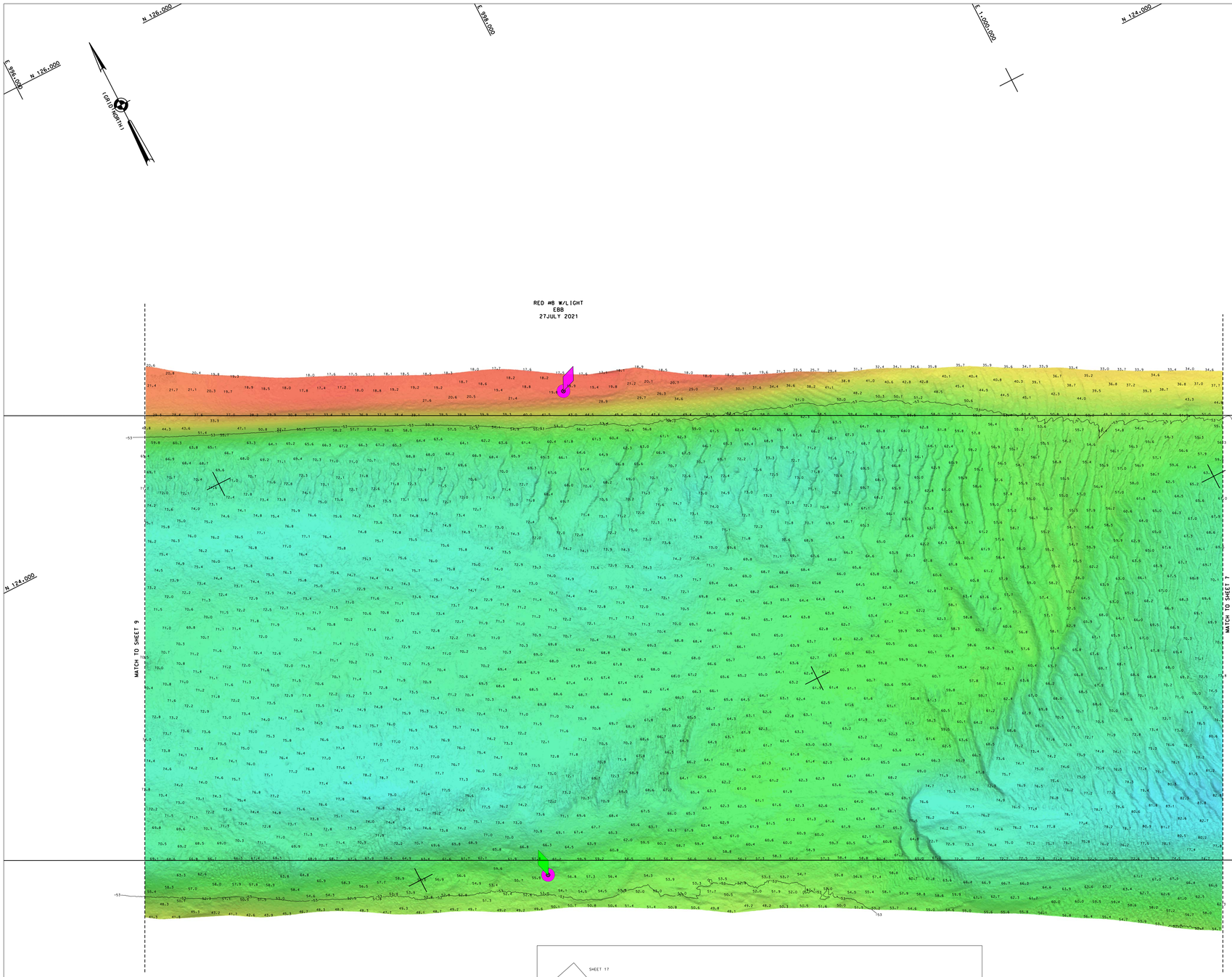
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

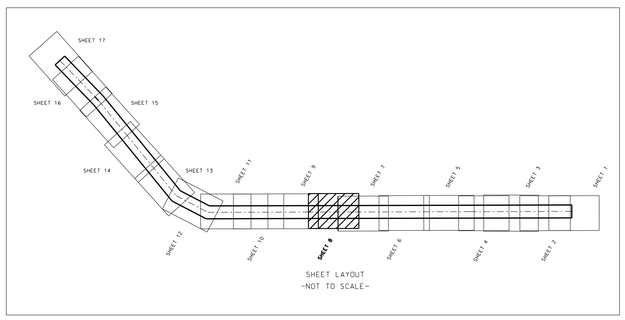
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-107

SHEET 7 OF 17





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 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
		MP	SG

DATES OF SURVEY:
20x:21,26x:27,30 JULY 2021
2x:3,4,5,9 AUGUST 2021
11x:12,13,16 AUGUST 2021

REQ. NO./FILE NO.:15085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, HYDROGRAPHIC SURVEYS & MAPPING

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

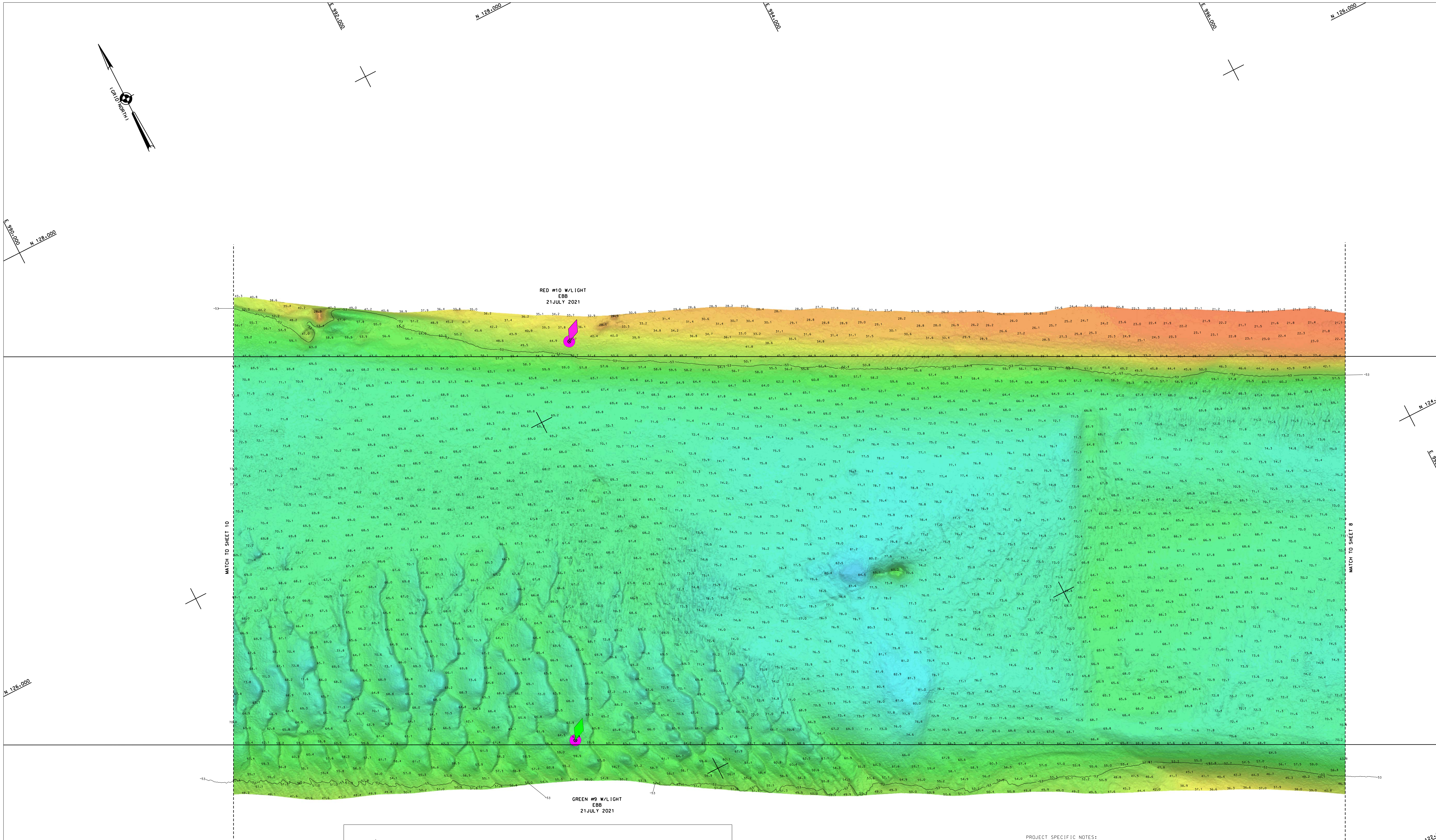
NEW YORK HARBOR
AMBROSE CHANNEL

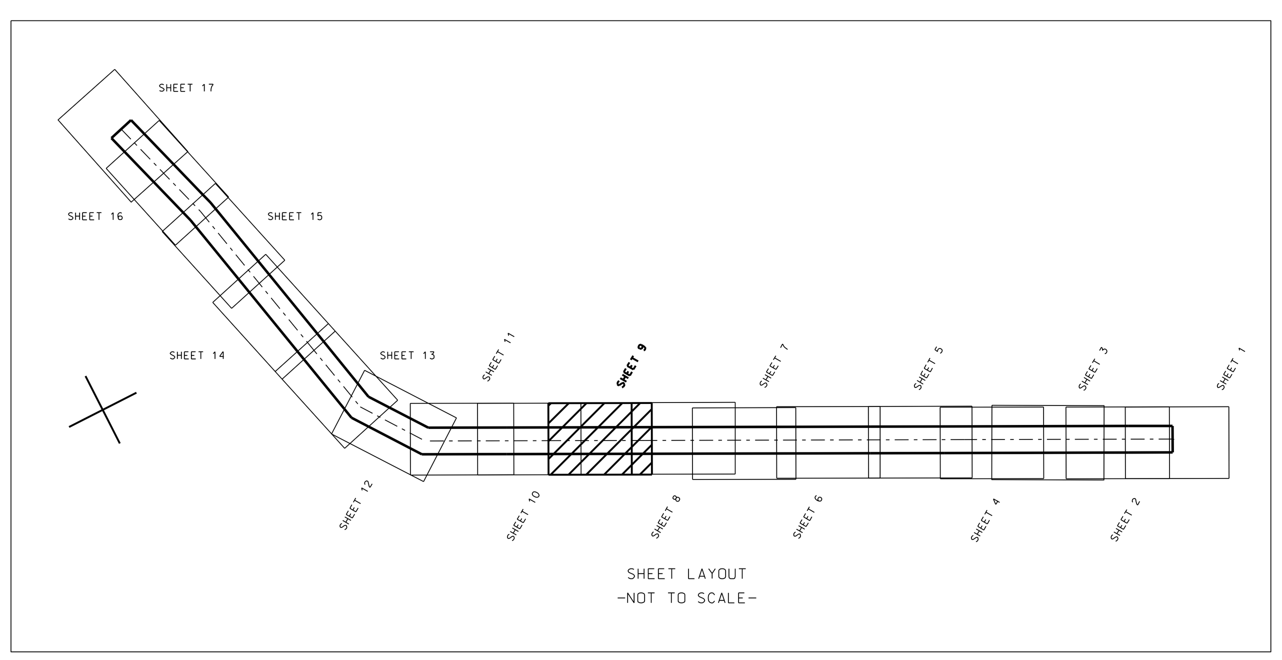
CONDITION SURVEY

VH-108

SHEET 8 OF 17

CORPS OF ENGINEERS





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 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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

EQ	SG
PR	MP

DATES OF SURVEY:
20,21,26,27 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

REQ. NO./FILE NO.:5085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOLOTTI — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 25 AUGUST 2021

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

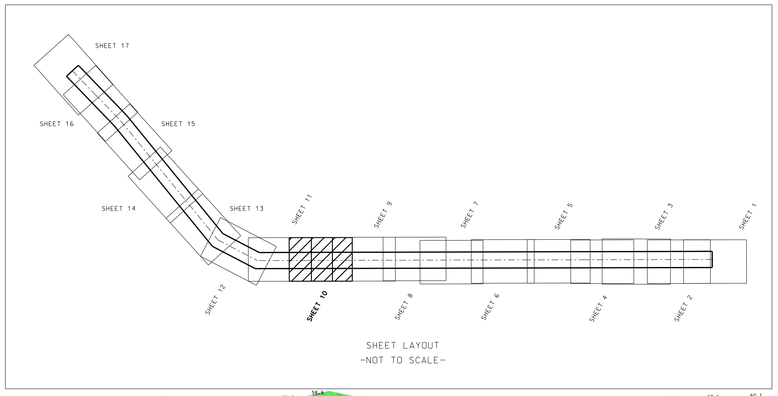
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

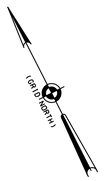
VH-109

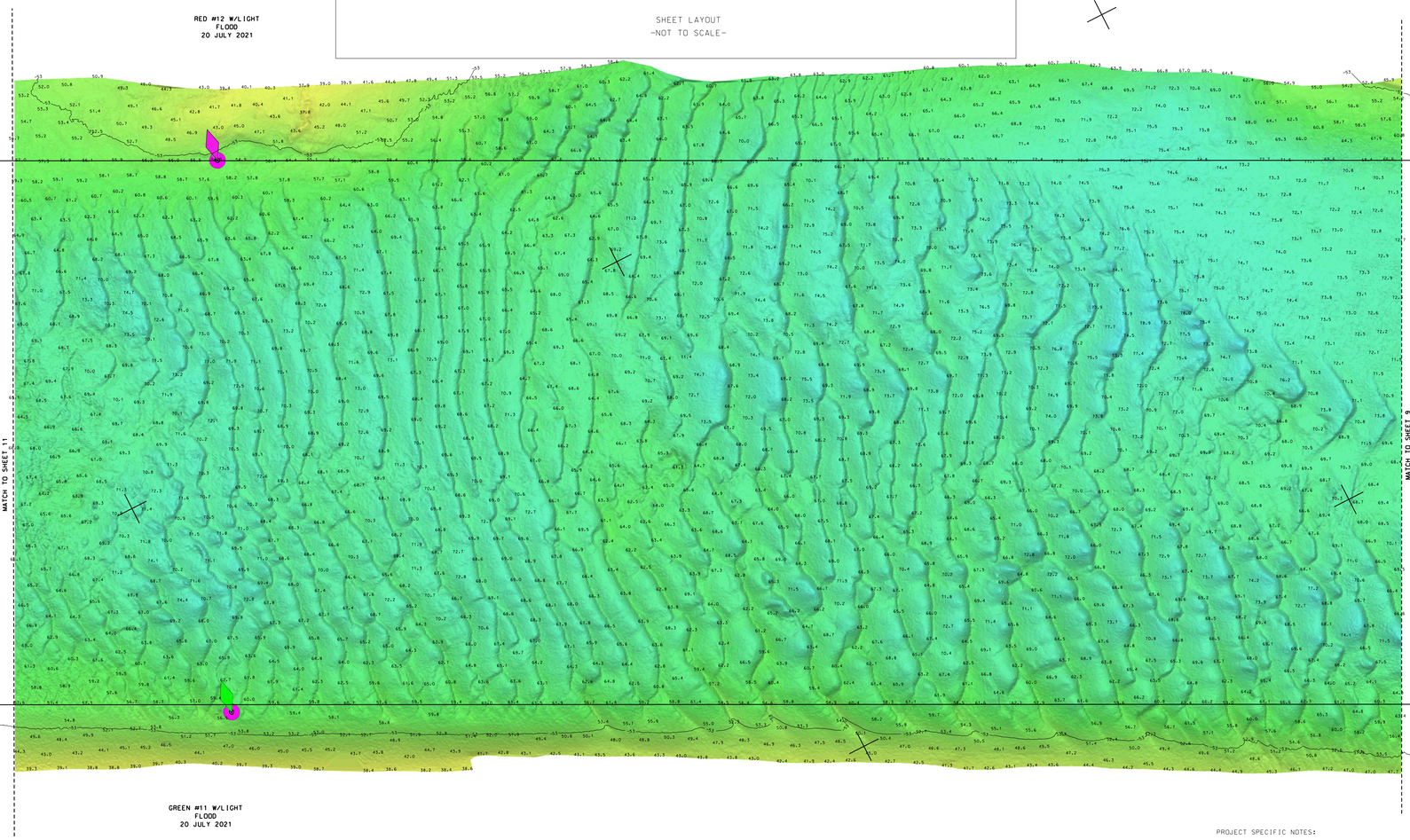
SHEET 9 OF 17

REQ. NO./FILE NO.:5085/D/N3



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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
MP	SG

DATES OF SURVEY:
20x21x26x27x30 JULY 2021
2x3x5x6x9 AUGUST 2021
11x12x13x16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:15085/O/N3

APPROVED: P.KEARNS, J.BERTOLOTTI
CHIEF, HYDROGRAPHIC SURVEYS

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF, CARTOGRAPHY

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

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

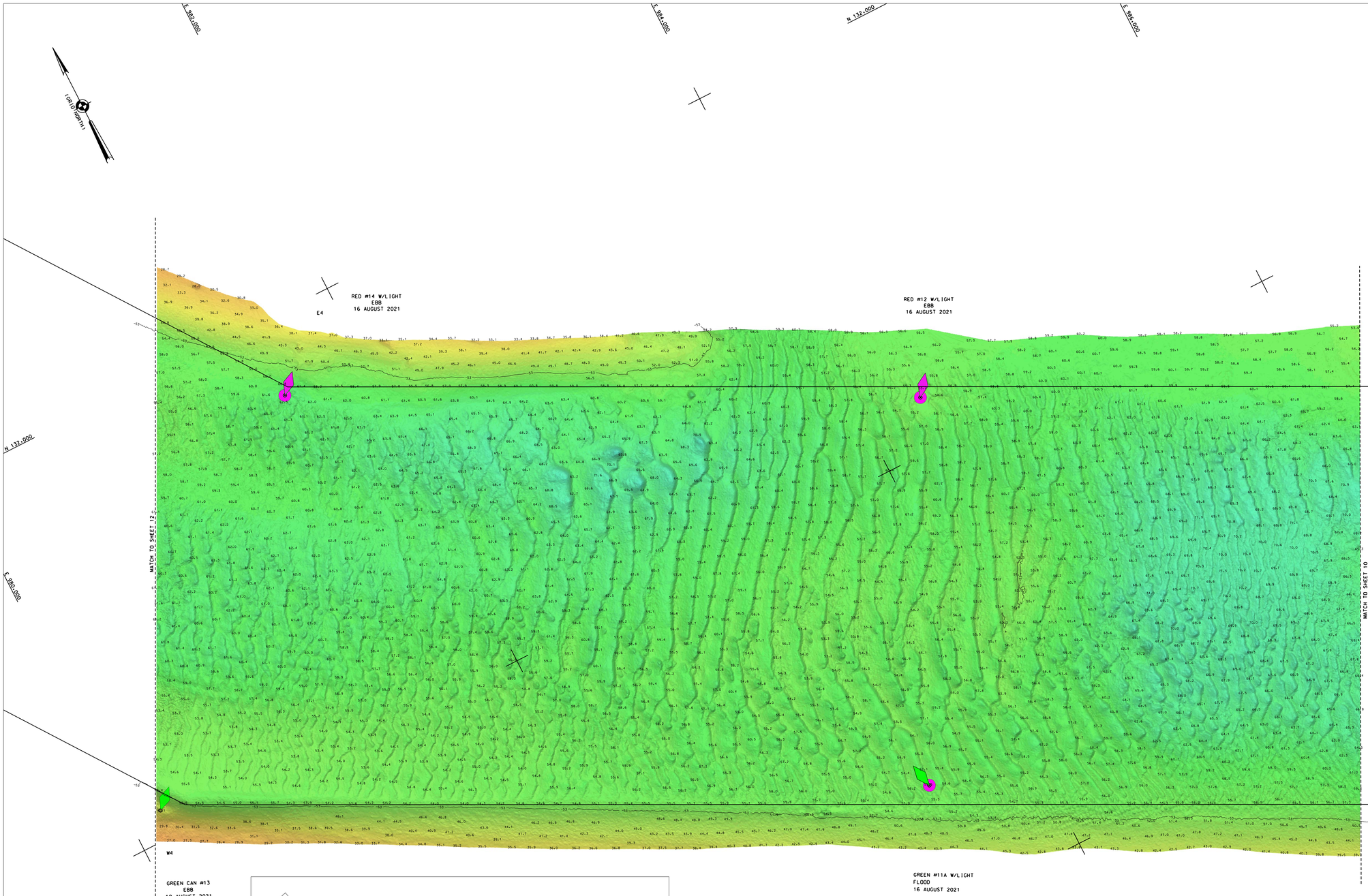
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

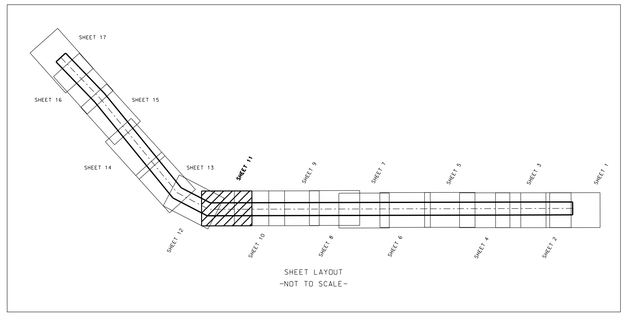
NEW YORK HARBOR
AMBROSE CHANNEL

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	
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. 4.0.11).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ	
MP	SG	

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.-15085/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
CIVIL ENGINEERING TECHNICIAN
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRADJUR
CAD CARTOGRAPHER
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 25 AUGUST 2021

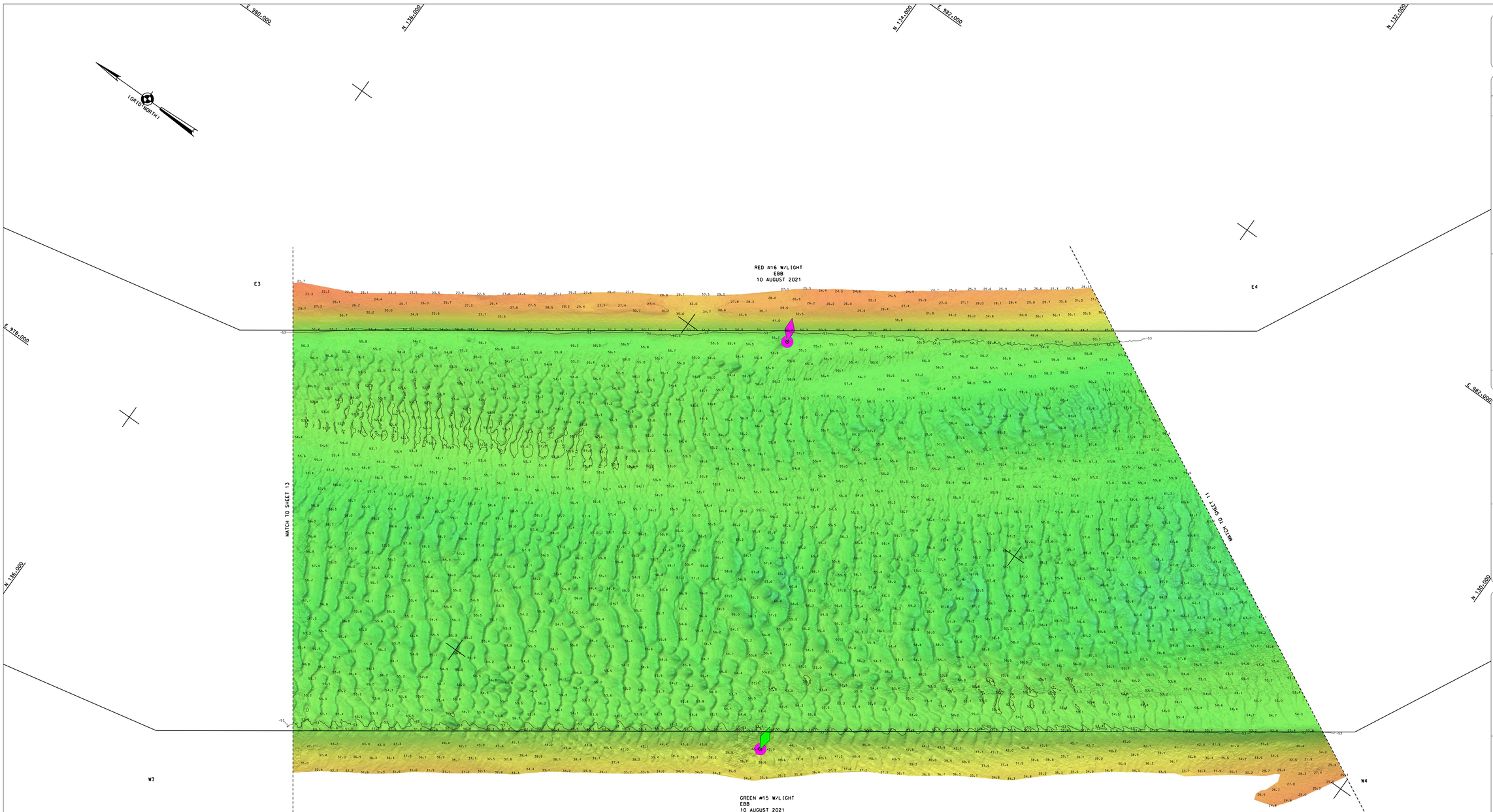
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

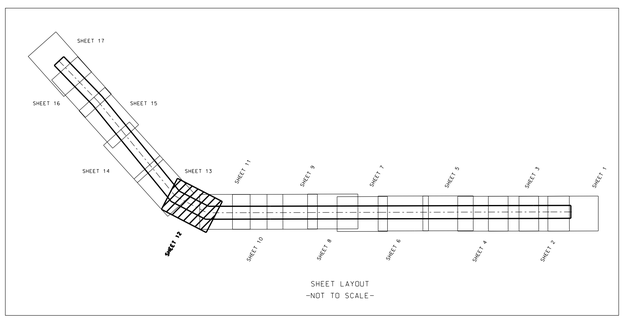
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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)

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 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
		MP	SG

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

REQ. NO./FILE NO.:15085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOLOTTI
CIVIL ENGINEERING TECHNICIAN

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BRADJUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 25 AUGUST 2021

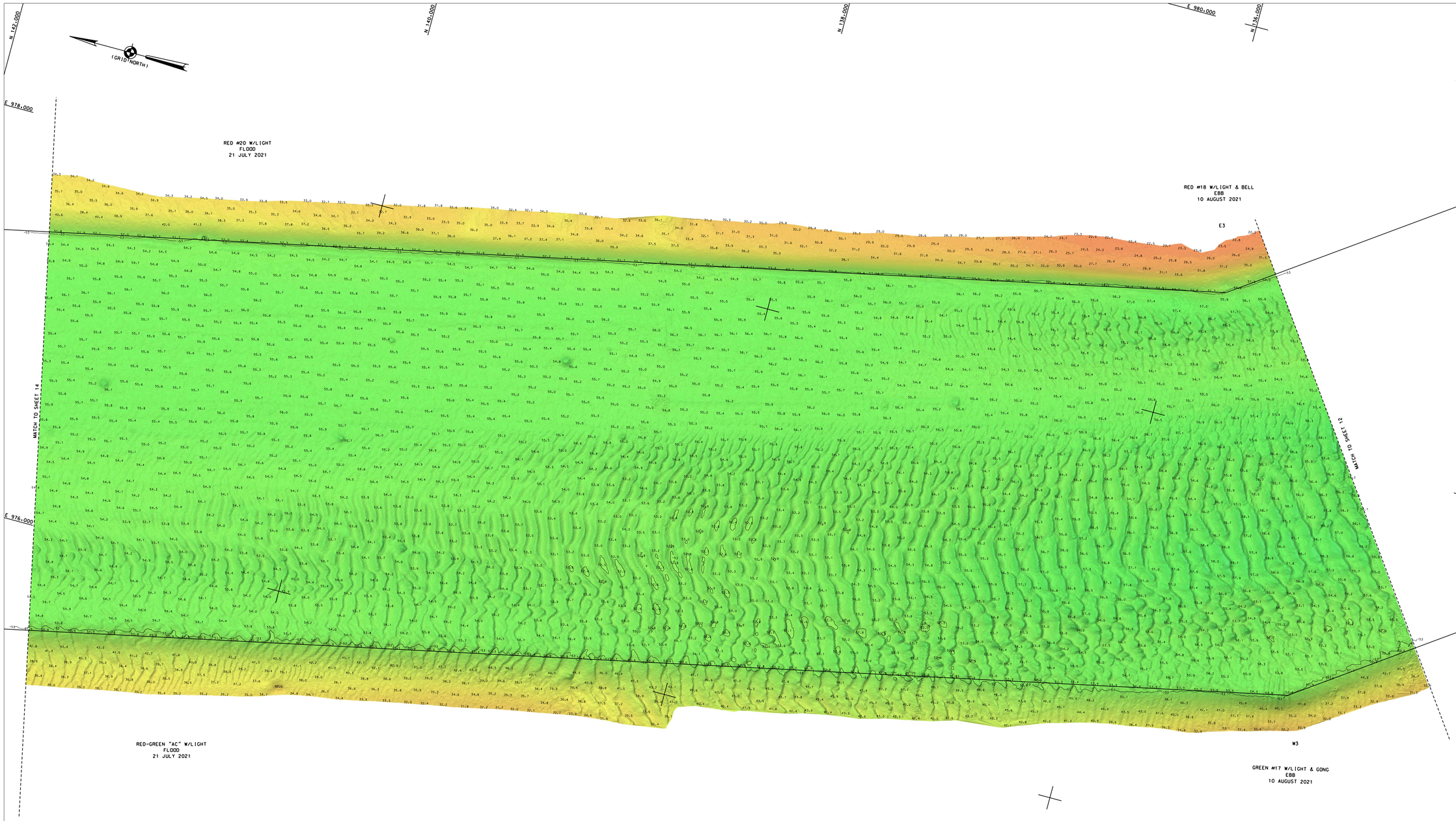
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

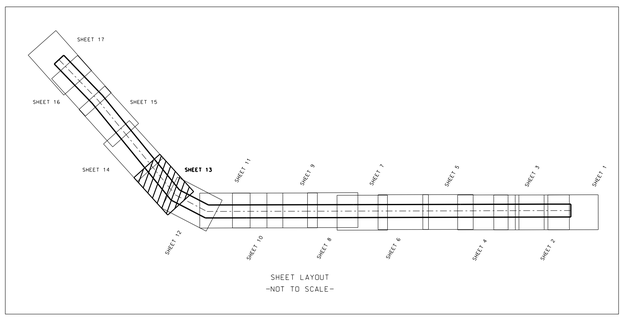
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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	
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 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EG		
MP	SG		

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9 AUGUST 2021
11,12,13,16 AUGUST 2021

REQ. NO./FILE NO:15085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, ENGINEERING DIVISION
CHIEF, ENGINEERING TECHNICIAN

APPROVED: M. FORTE
CHIEF, OPERATIONS DIVISION

APPROVED: P. BRADJUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 26 AUGUST 2021

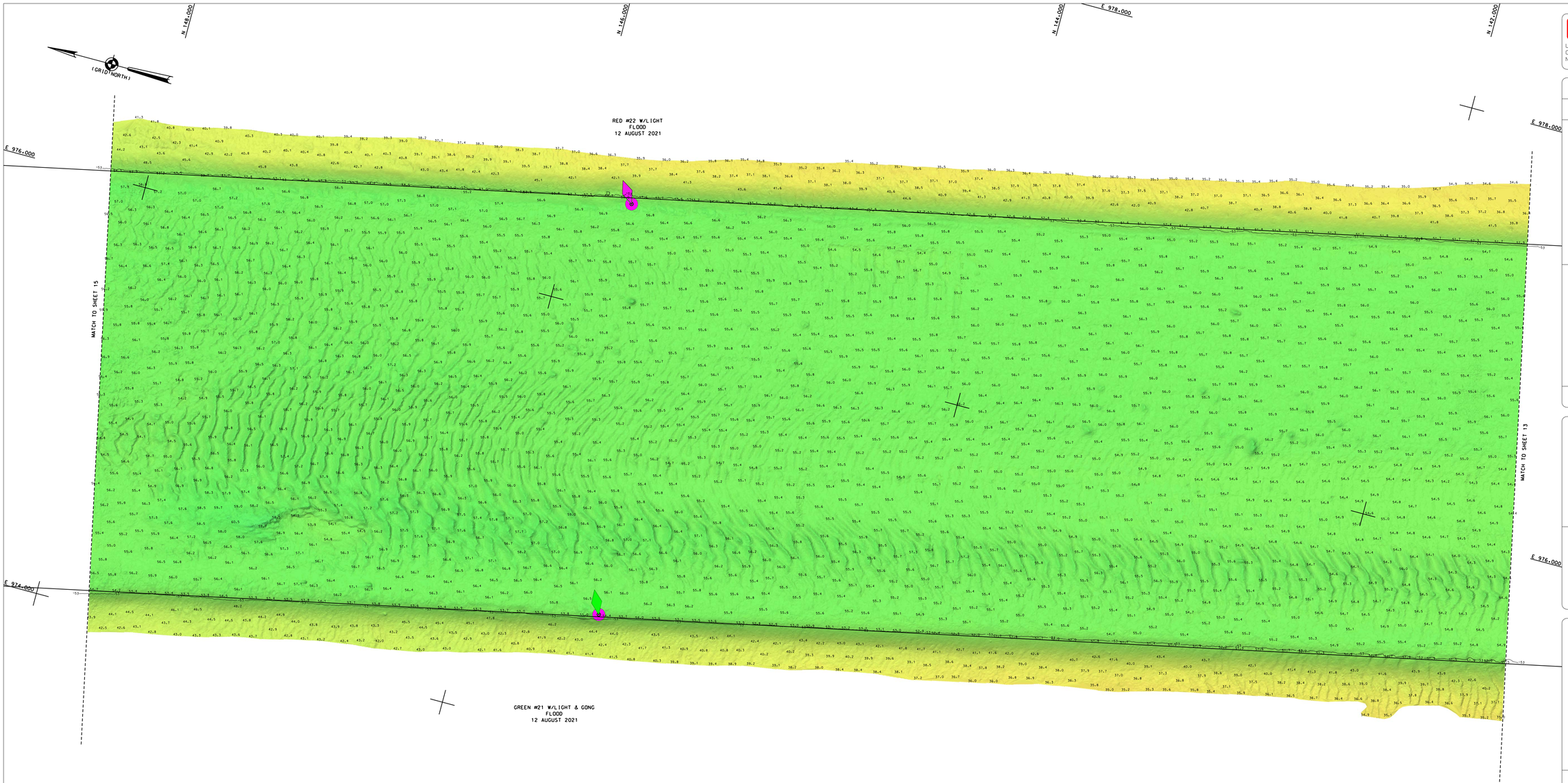
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

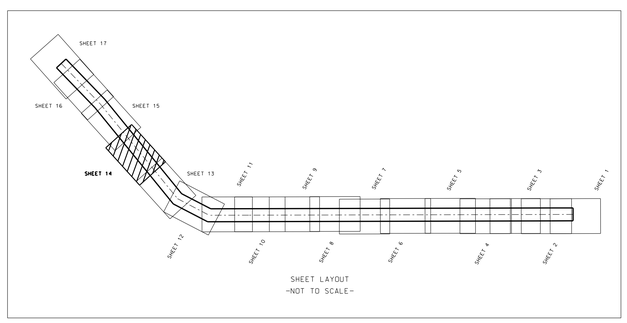
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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)

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 5' x 5' MEDIAN CELL, SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ
MP	SG

DATES OF SURVEY:
2,3,4,5,6,9 AUGUST 2021
11,12,13,16 AUGUST 2021

REQ. NO./FILE NO.:15085/D/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

APPROVED: P. KEARNS, Jr. BERTO OTTI
CHIEF, FIELD SURVEYING

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHAGUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
REPORT CHIEF OF SURVEY

DATE: 25 AUGUST 2021

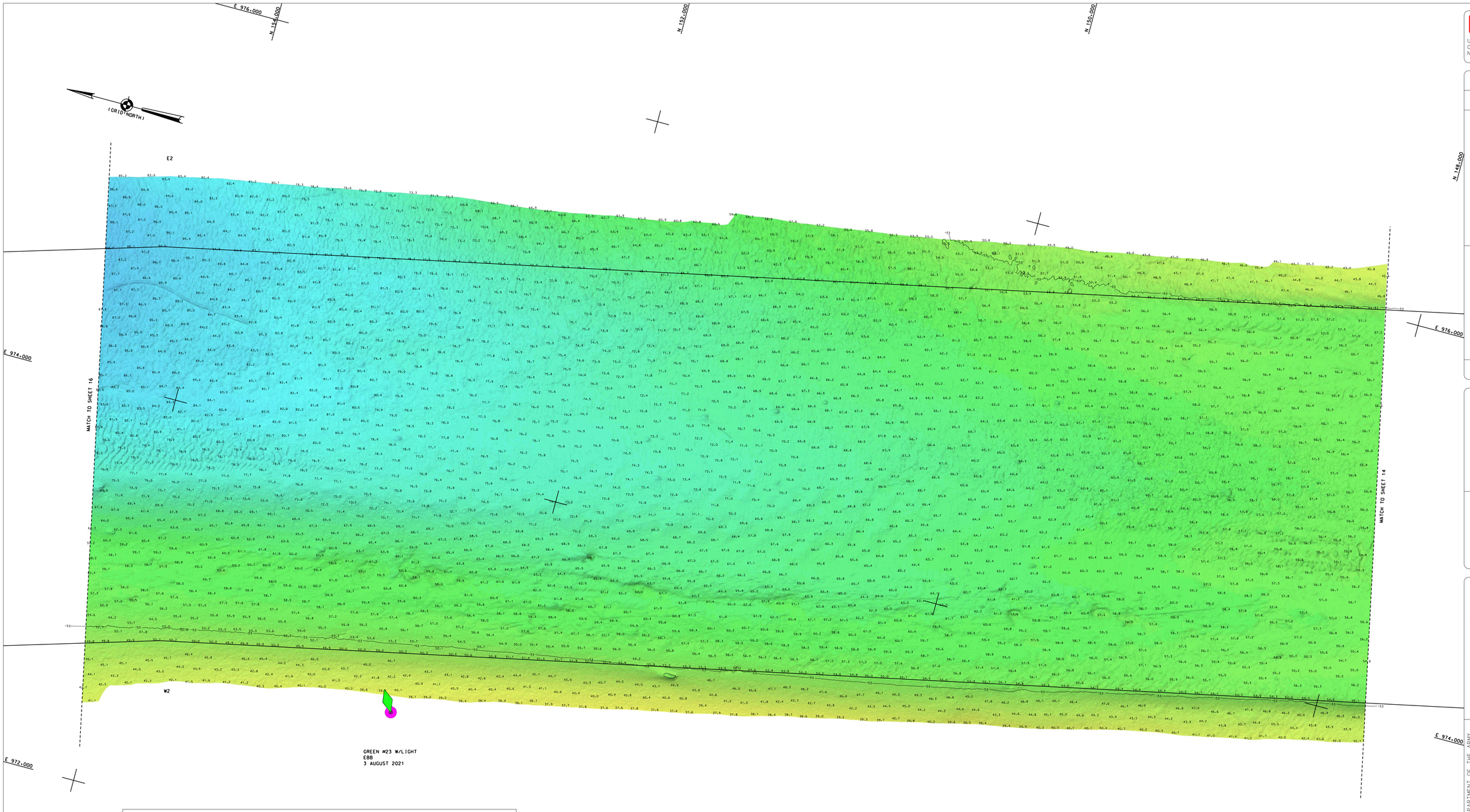
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

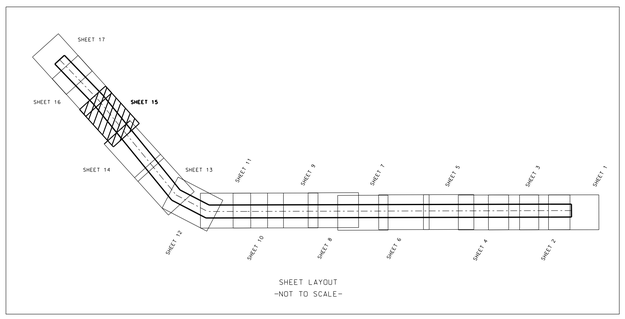
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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
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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EQ	
MP	SG	

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,9,10 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:15085/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
PROJECT MANAGER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BALDUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 26 AUGUST 2021

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

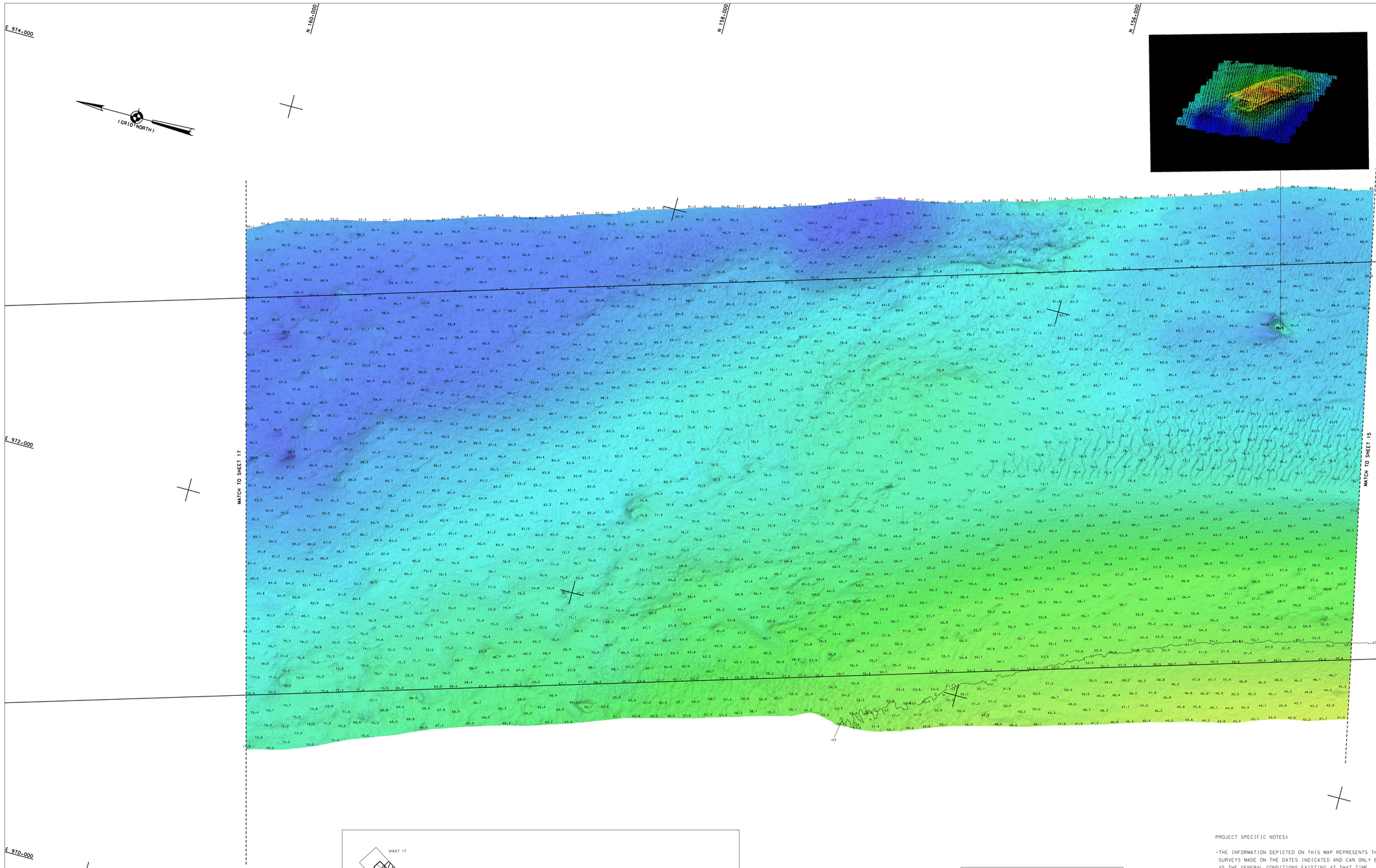
OPERATIONS DIVISION
SURVEY SECTION
CENWN-OP-S

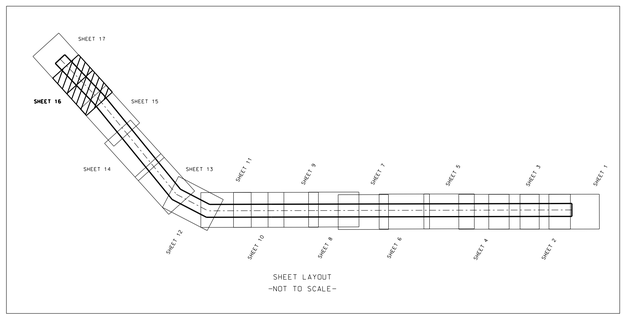
NEW YORK HARBOR
AMBROSE CHANNEL

CONDITION SURVEY

VH-115

SHEET 15 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)

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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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	EO	
MP	SG	

DATES OF SURVEY:
20,21,26,27,30 JULY 2021
2,3,4,5,9,10 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: N/A

REQ. NO./FILE NO.:15085B/D/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
CHIEF, HYDROGRAPHIC SURVEY BRANCH
APPROVED: M. FORTE
CHIEF, TECHNICAL SUPPORT DIV
APPROVED: P. BHADUR
CHIEF, PHOTOGRAMMETRY
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 26 AUGUST 2021

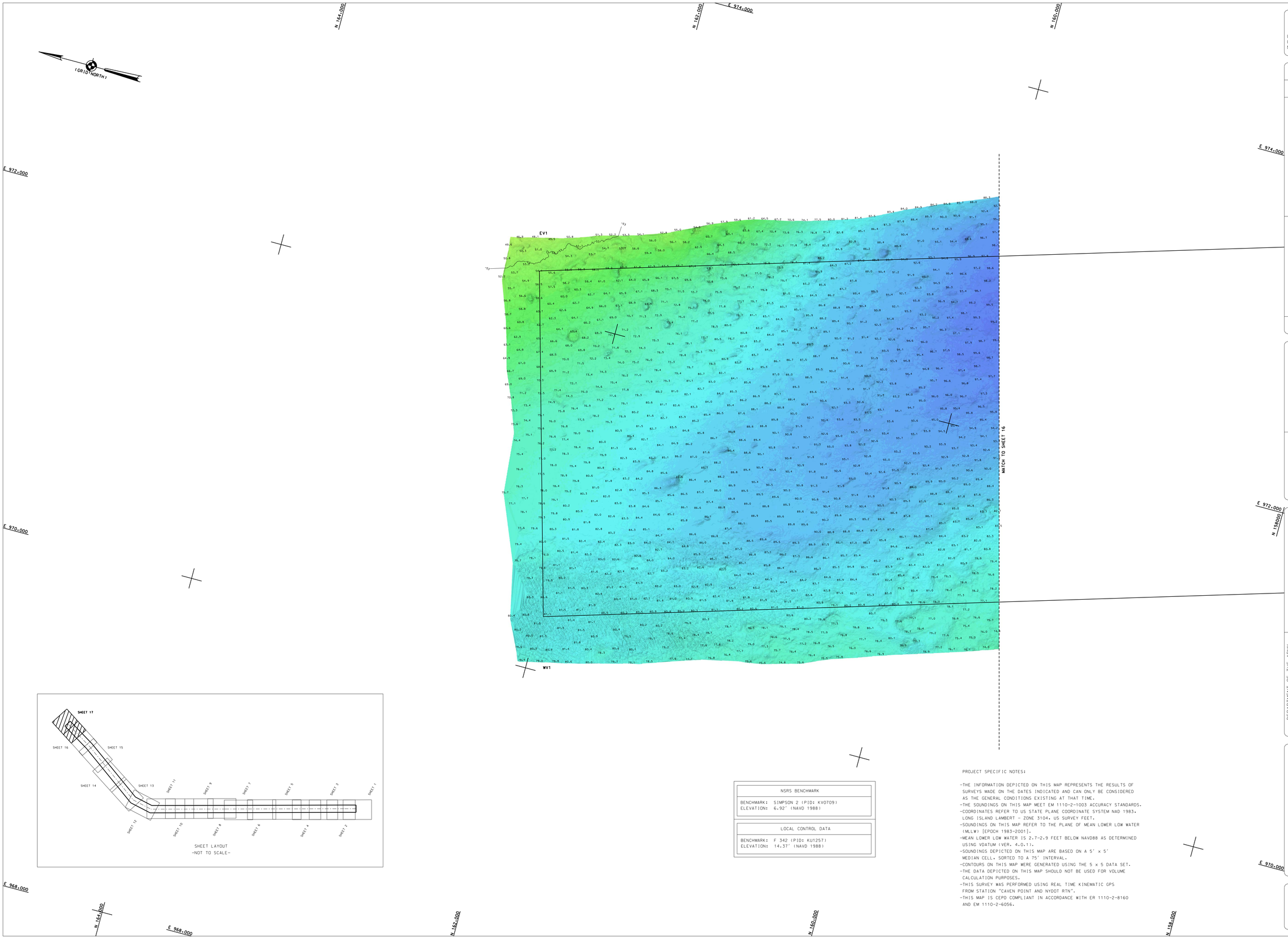
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
AMBROSE CHANNEL
CONDITION SURVEY

VH-116

SHEET 16 OF 17



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 5' x 5' MEDIAN CELL. SORTED TO A 75' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 5 x 5 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT AND NYDOT RTN".
- 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

		PM	EO
		WP	SG

DATES OF SURVEY:
28,31,2,6,27,30 JULY 2021
2,3,4,5,9,10 AUGUST 2021
11,12,13,16 AUGUST 2021

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.:50858/O/N3

APPROVED: P. KEARNS, J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BRADJUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEY

DATE: 25 AUGUST 2021

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-117

SHEET 17 OF 17