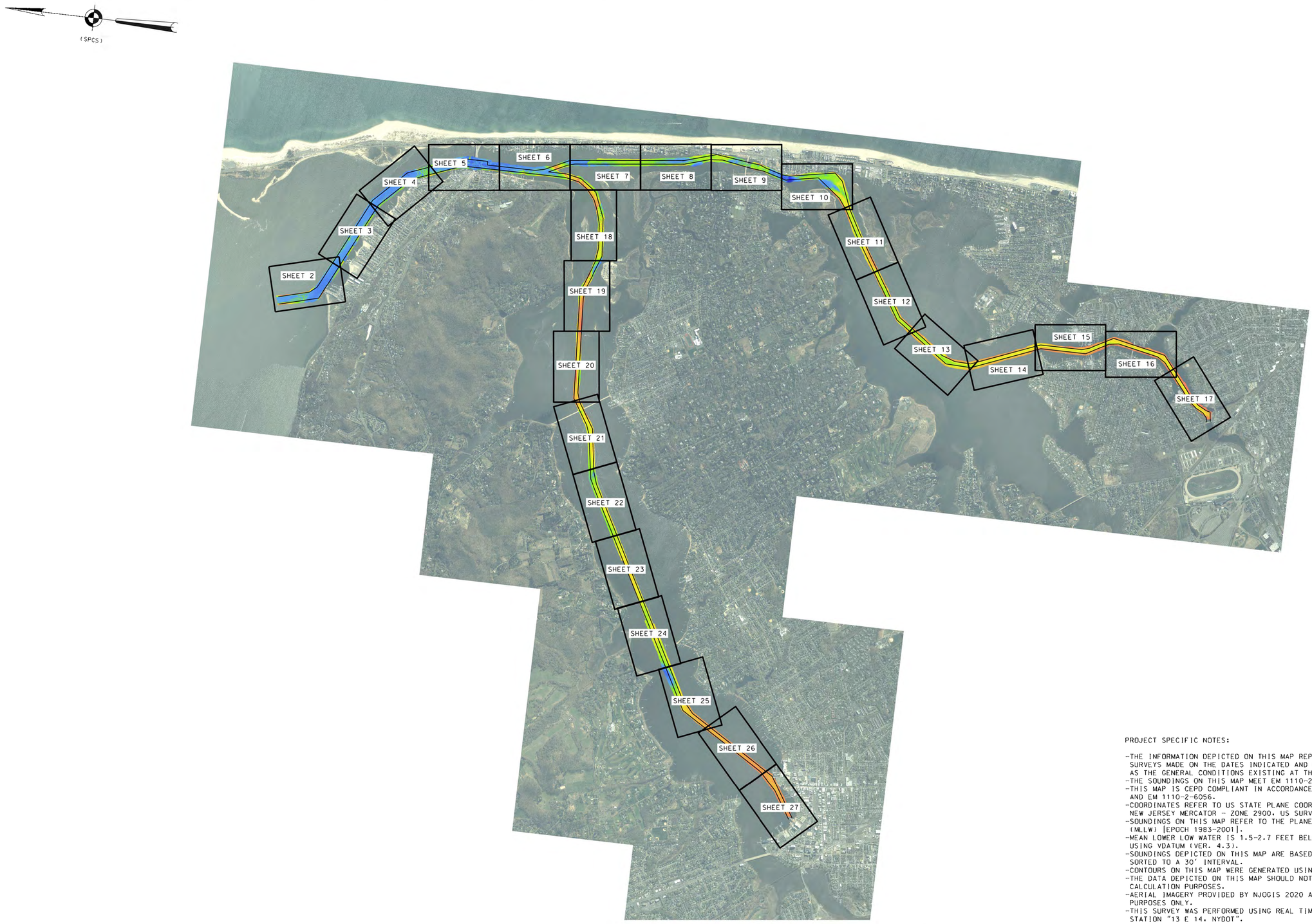


PROJECT SPECIFIC NOTES:

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-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].
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-AERIAL IMAGERY PROVIDED BY NJOGIS 2020 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO	
WP	JHS.SG	

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 2000 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO. S320/AL/NJ/NS

APPROVED: N. VITOLO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BRADAUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MK2
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 24 AUG 2023

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

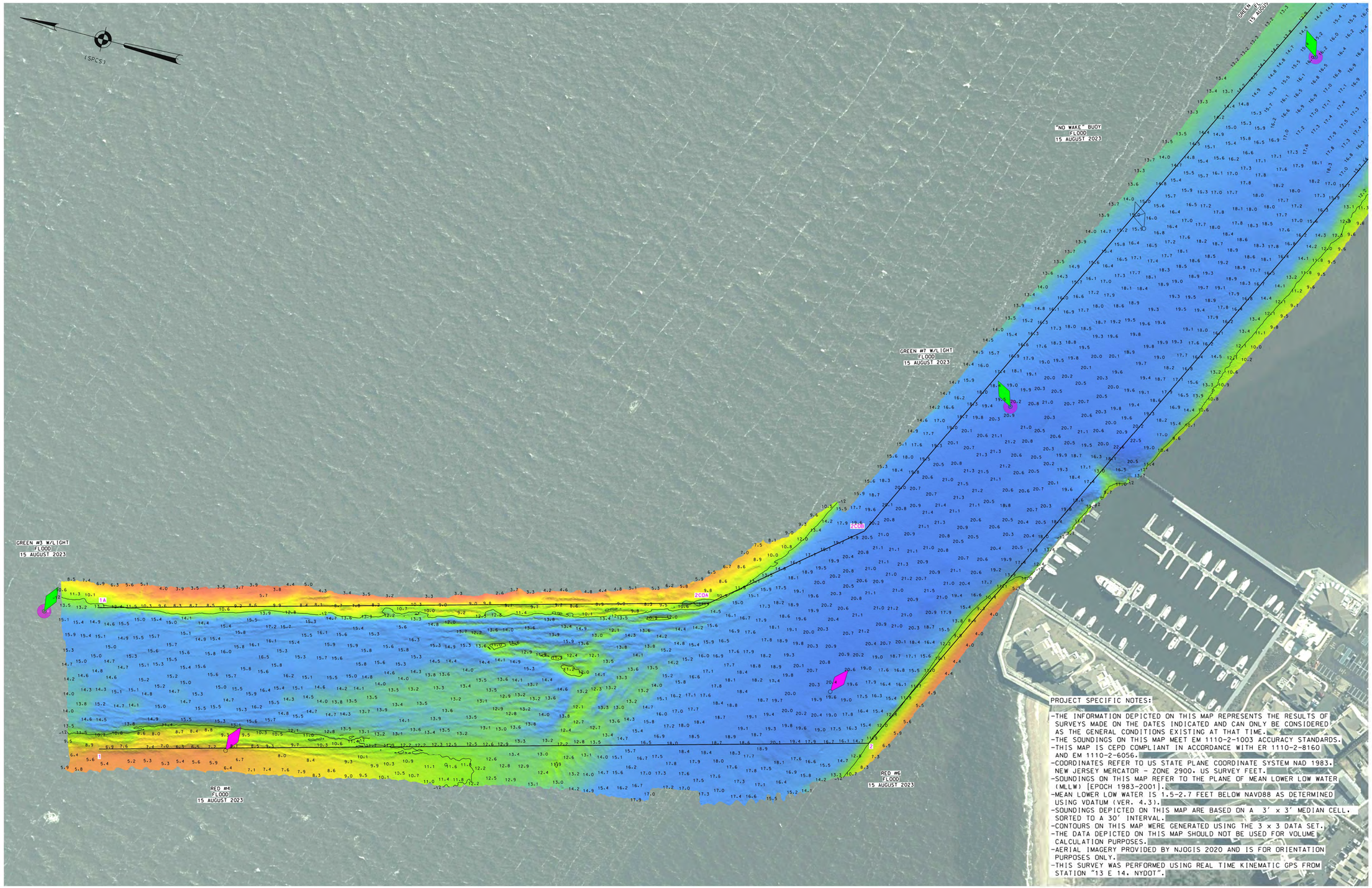
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-101

1 OF 27



MATCH TO SHEET 3

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO.-S320/AL/N1/NS

APPROVED: N. VITOLO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 24 AUG 2023

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

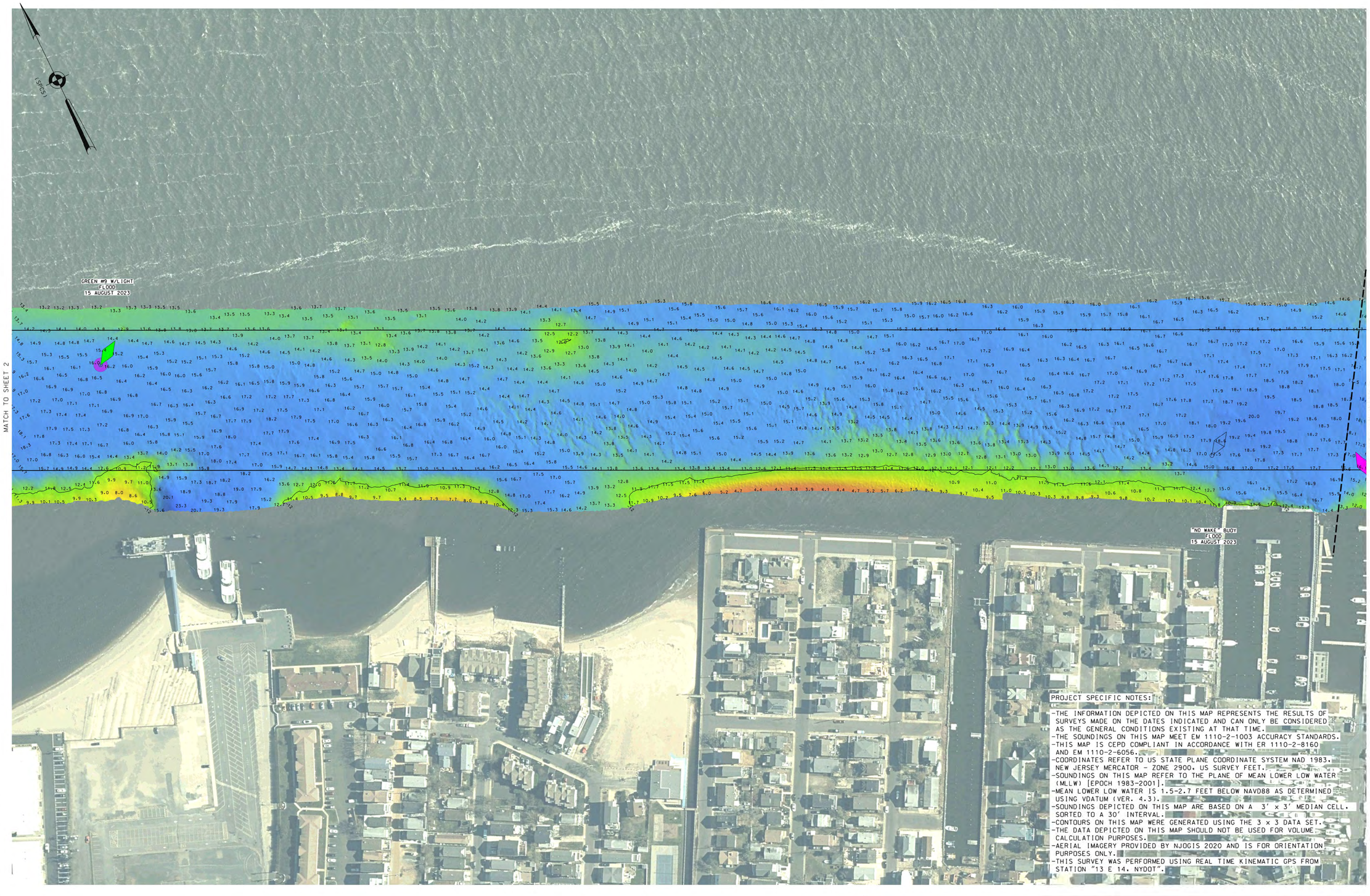
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-102

2 OF 27



MATCH TO SHEET 2

MATCH TO SHEET 4

0 100' 200'

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.
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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.-5320/AL/N1/XX

APPROVED:	N. VITOLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE KRAMER, DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023

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

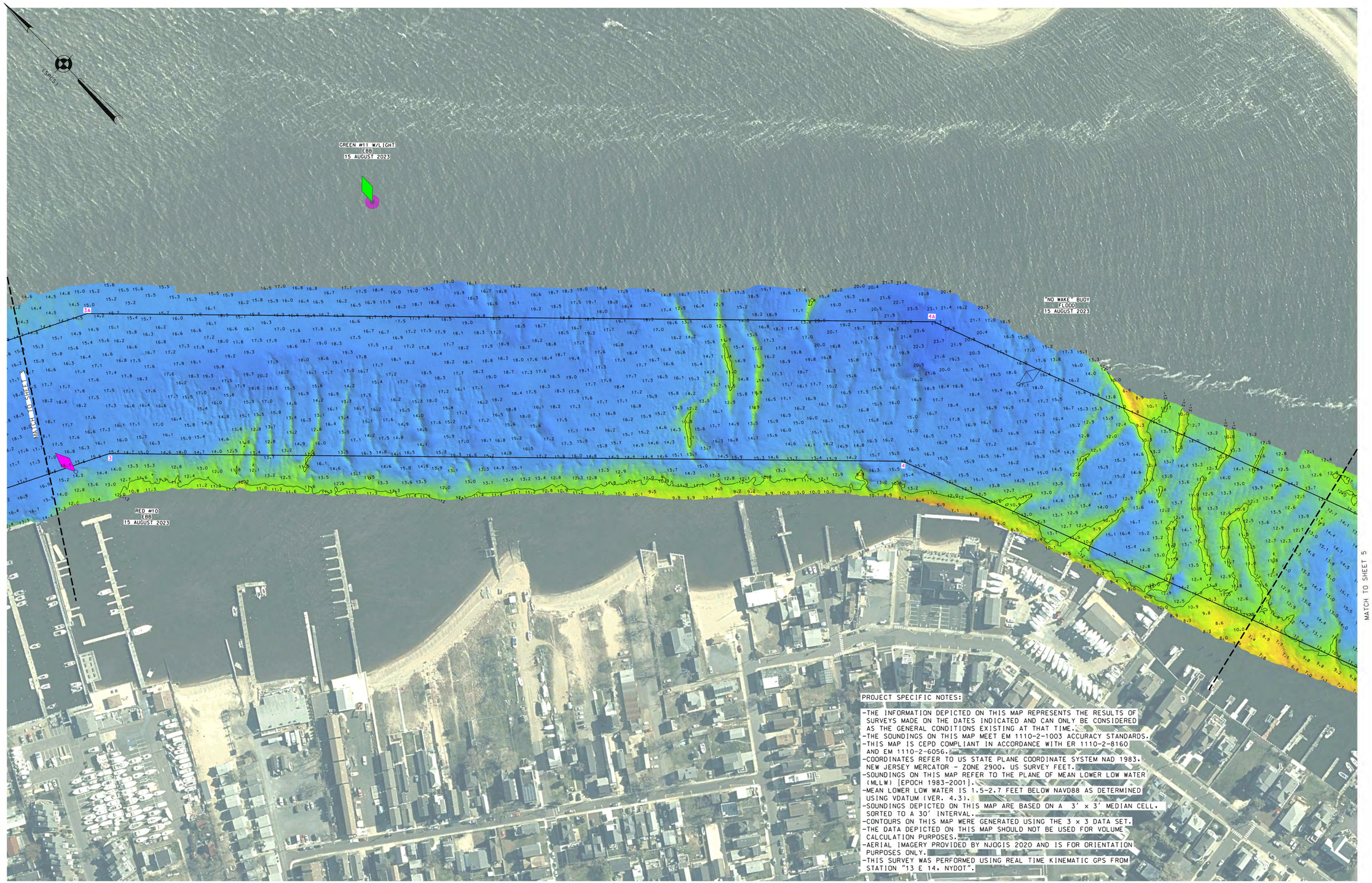
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-103

3 OF 27



PROJECT SPECIFIC NOTES:

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NSRS BENCHMARK	LOCAL CONTROL DATA
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ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED: N. VITOLO — 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: 24 AUG 2023

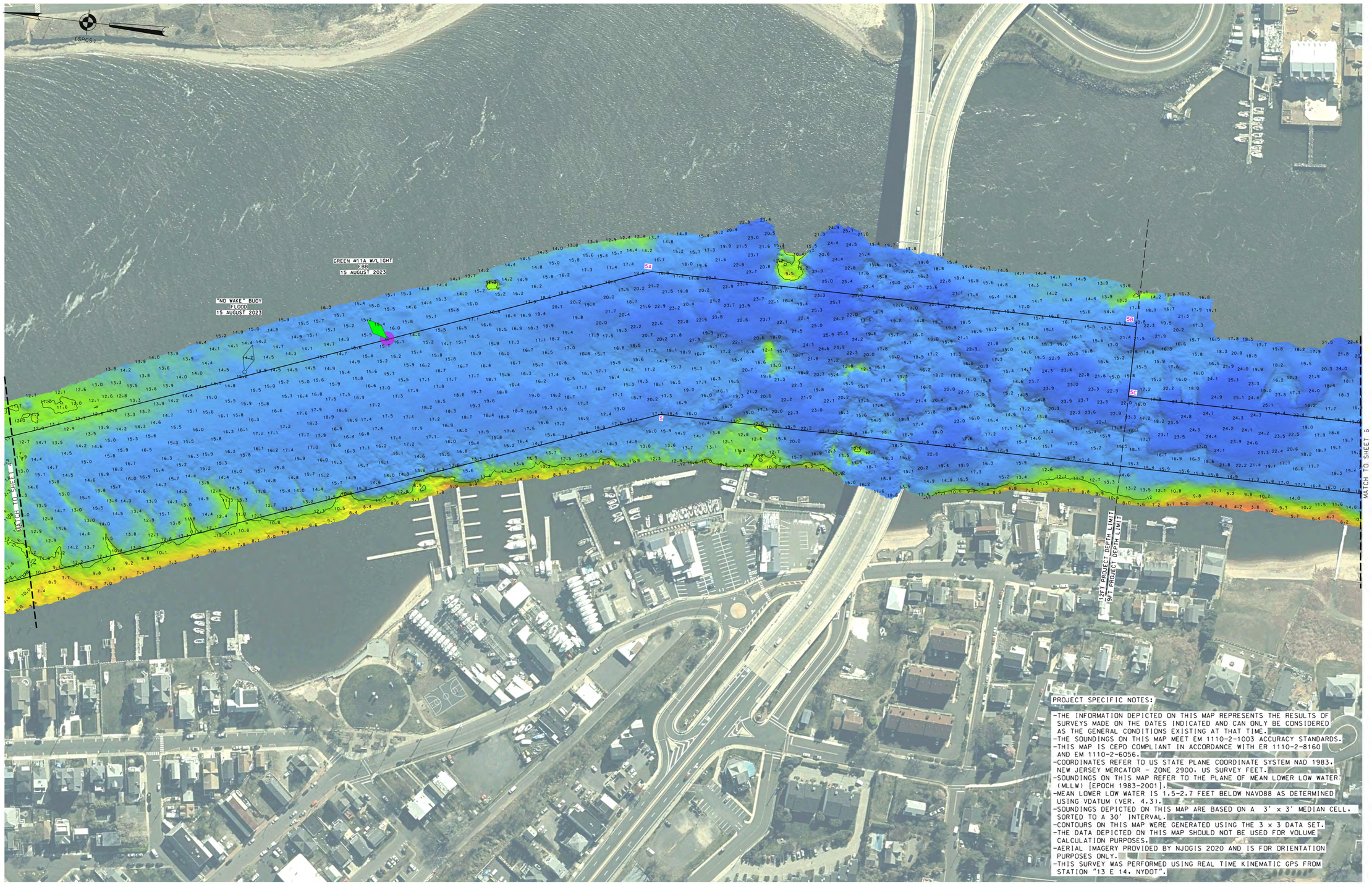
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-104

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PROJECT SPECIFIC NOTES:

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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/N1/NJ

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE A. BRADLEY	DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:		24 AUG 2023

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

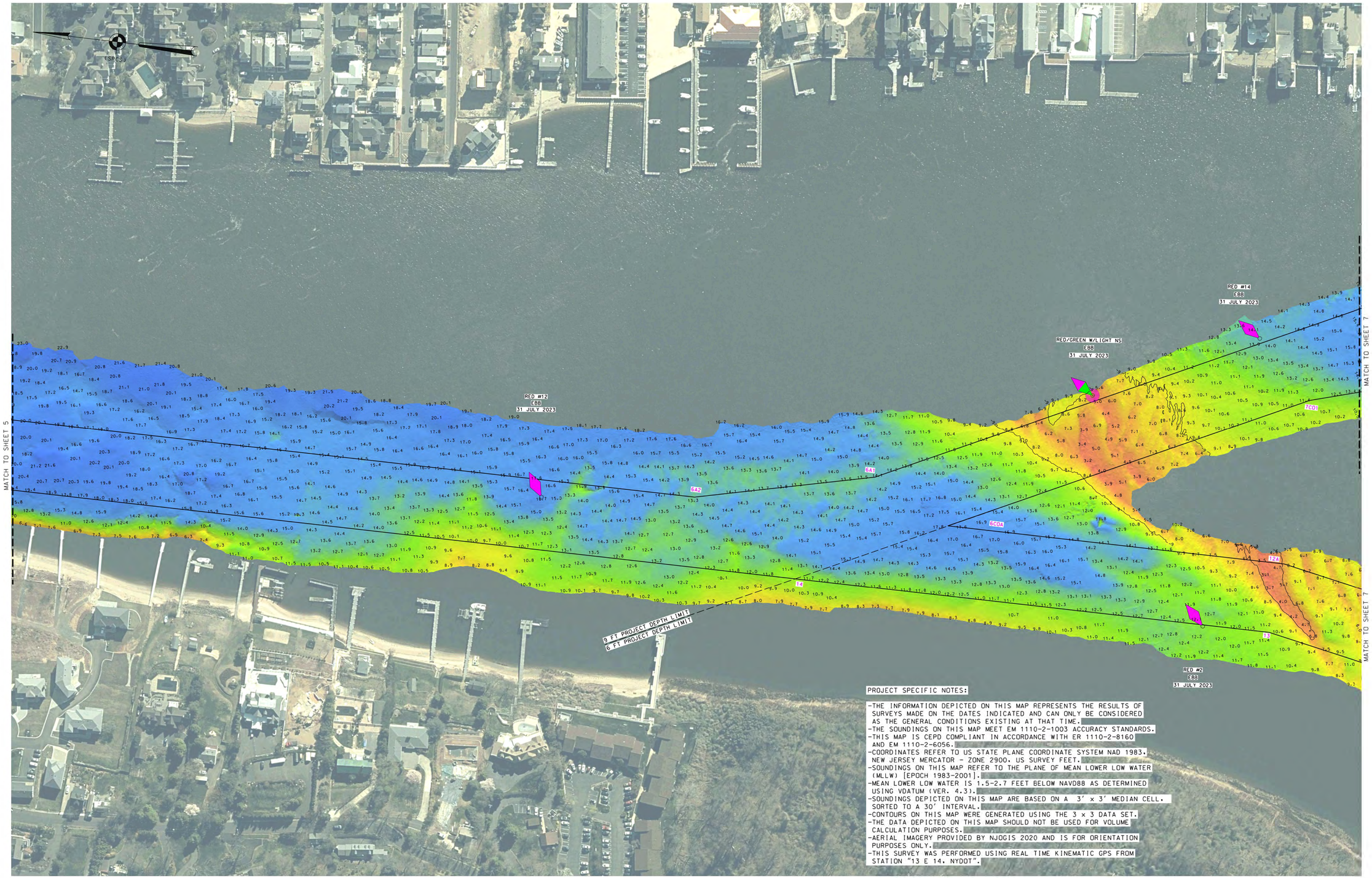
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-105

5 OF 27



PROJECT SPECIFIC NOTES:

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/XX

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO, J. MCKELVEY FIELD CARTOGRAPHER
APPROVED:	M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023

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

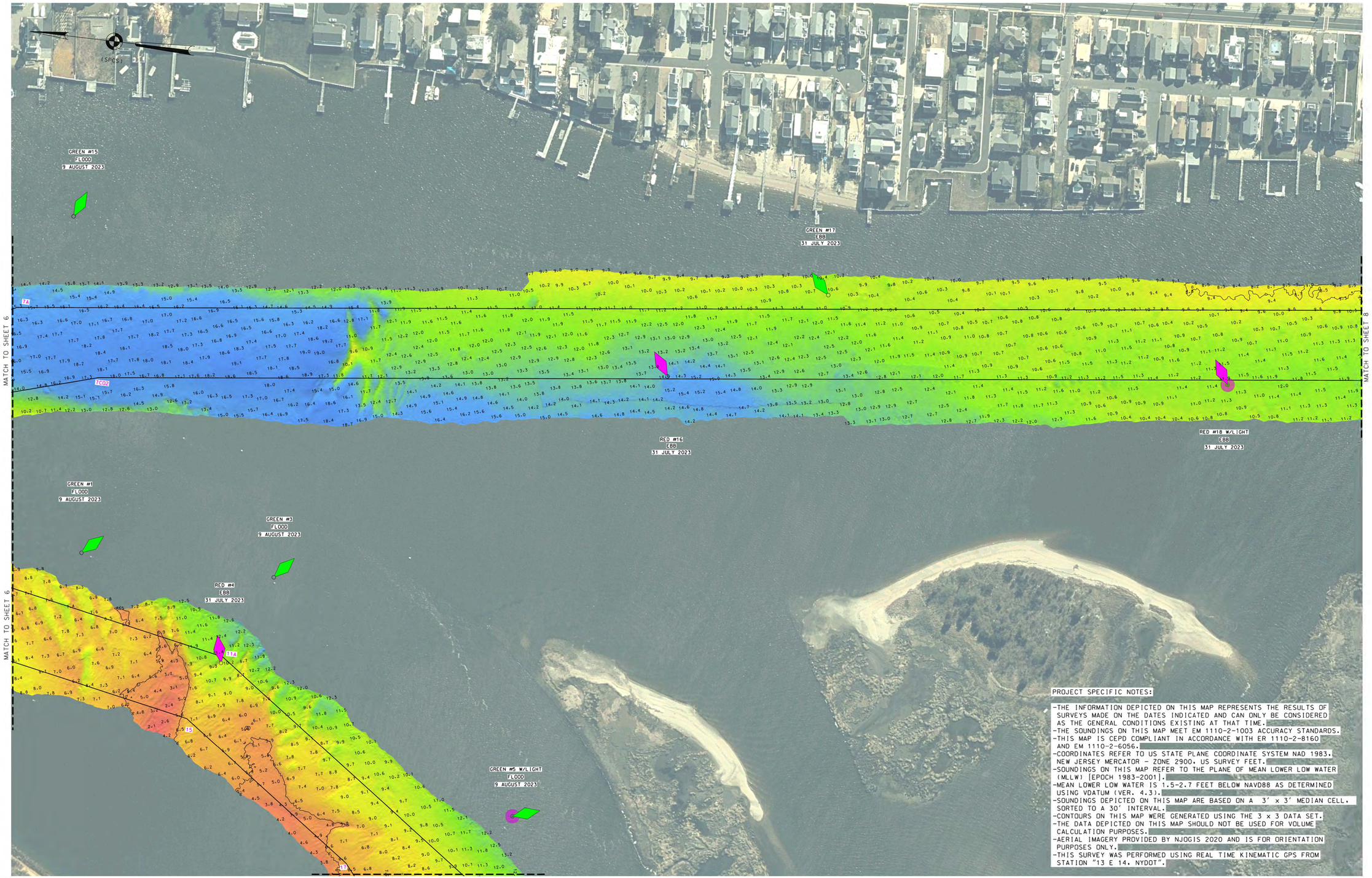
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-106

6 of 27



PROJECT SPECIFIC NOTES:

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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
MP	JHS.SG

DATES OF SURVEY:
24-26.31 JULY,
1-3.9.14.15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/NY/NS

APPROVED: N. VITOLO
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: 24 AUG 2023

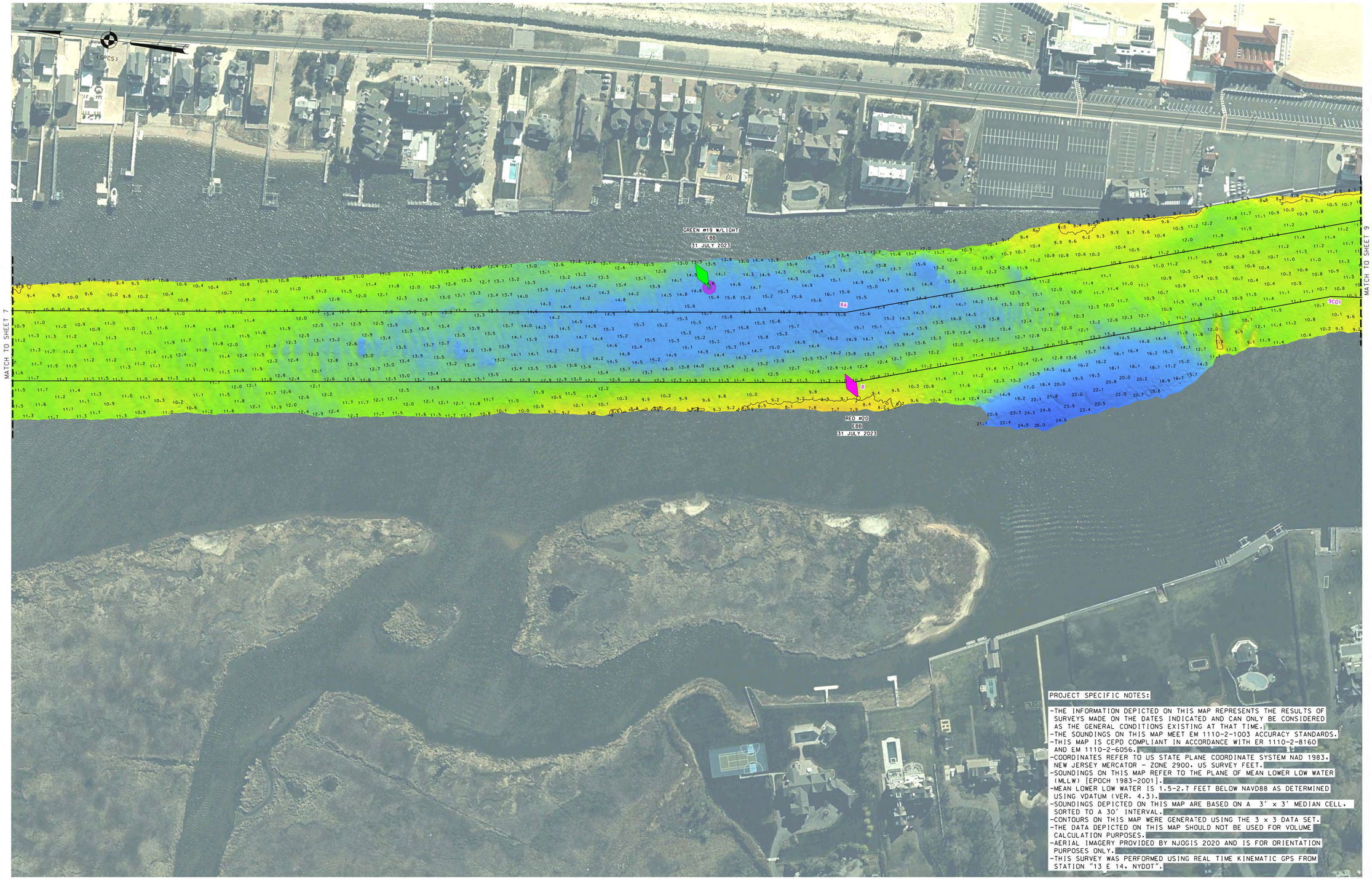
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK. NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-107



0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/N1/NJ

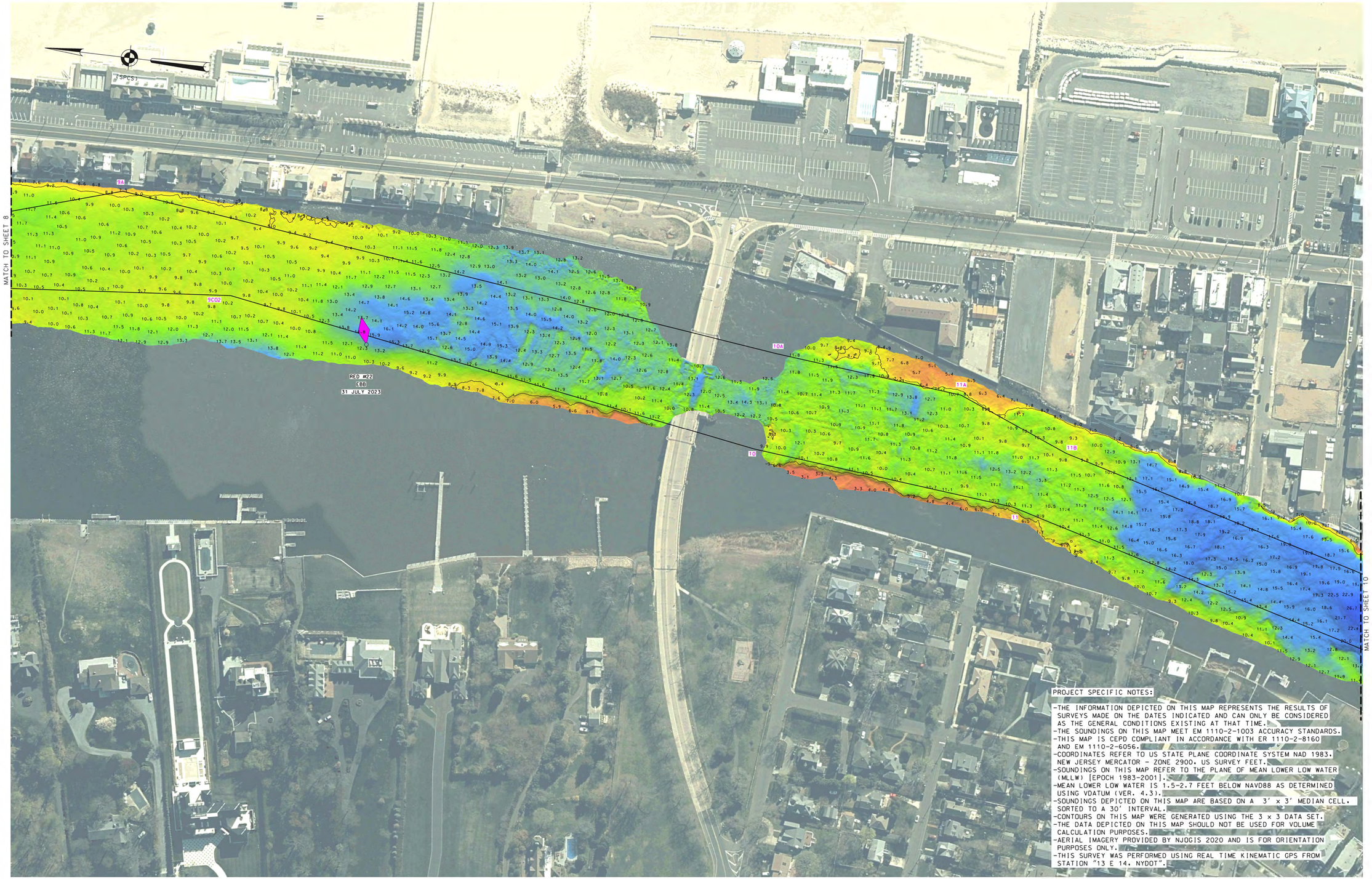
APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE KRAUSE	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023	

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

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-108



PROJECT SPECIFIC NOTES:

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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26.31 JULY,
1-3.9-14.15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. ND./FILE NO. 5320/AL/N1/N3

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE A. DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH	
DATE:	24 AUG 2023	

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

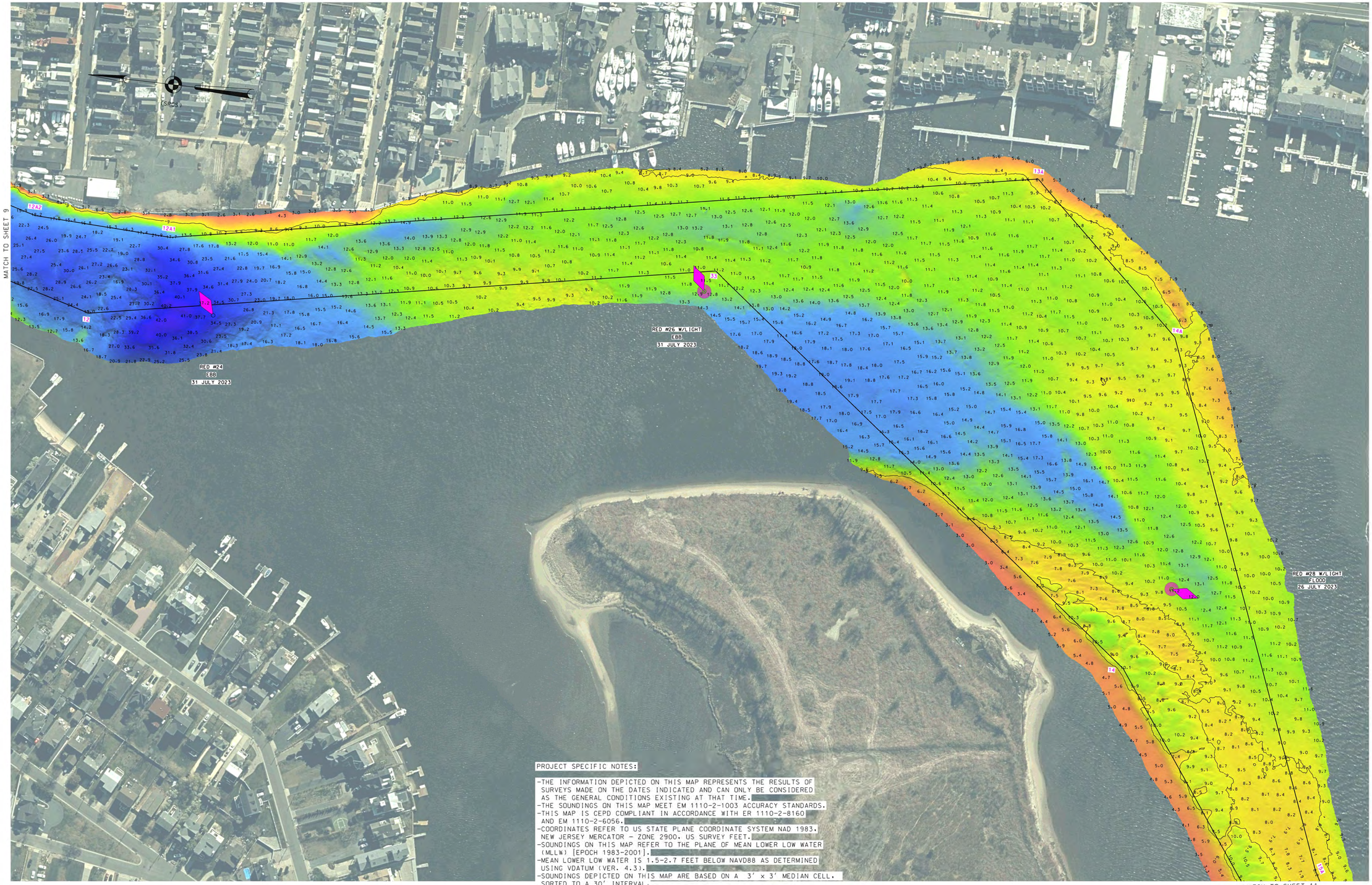
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-109

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PROJECT SPECIFIC NOTES:

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-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/N1/NS

APPROVED:	N. VITOLO	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:	24 AUG 2023	

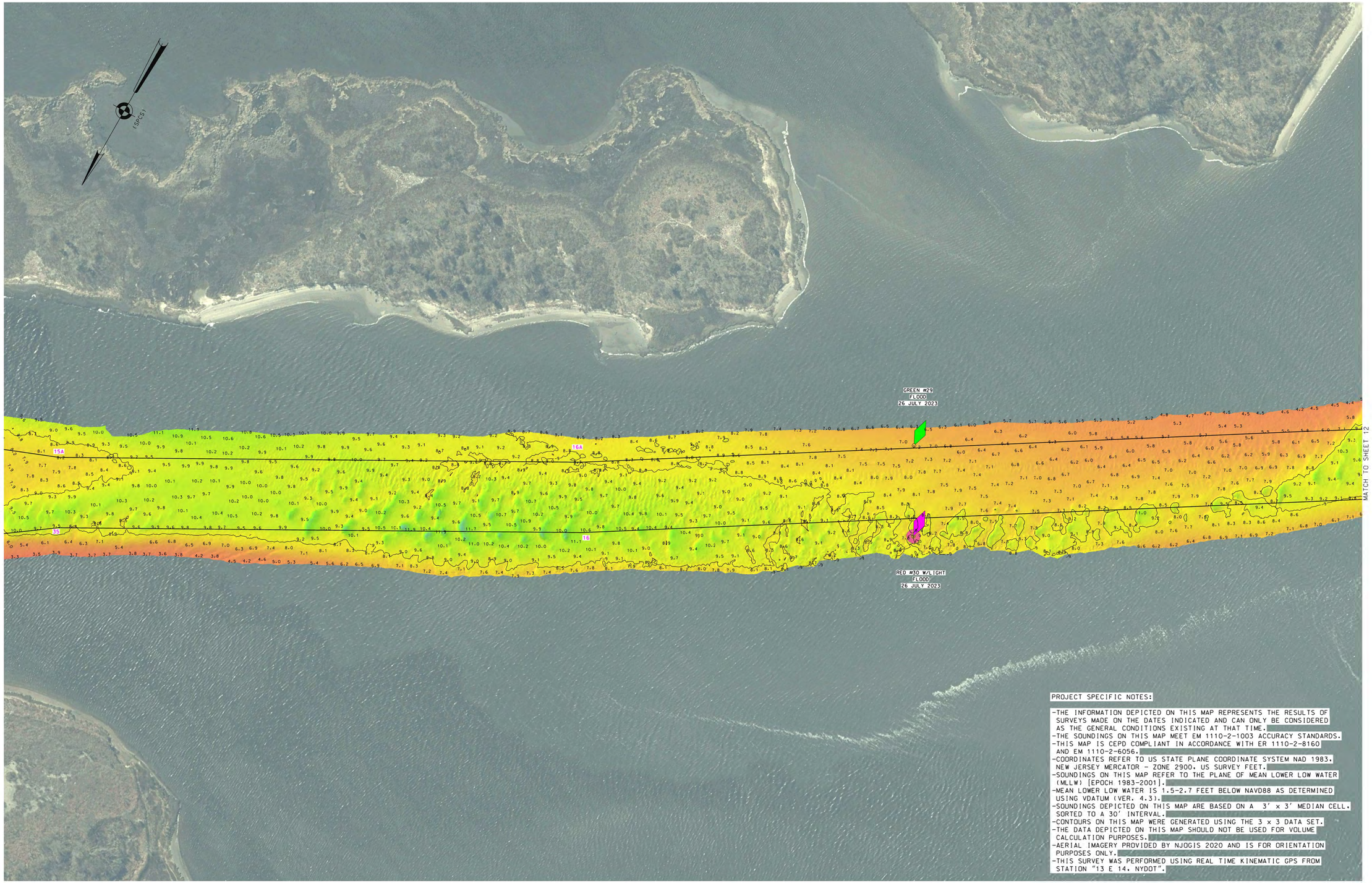
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-110



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.
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-MEAN LOWER LOW WATER IS 1.5-2.7 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 NJOGIS 2020 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

0 100' 200'

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9,14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/NJ

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARKEYS AND MAPPING BRANCH
DATE:	24 AUG 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

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-111

11 of 27



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.
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ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

0 100' 200'

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REG. NO./FILE NO. 5320/AL/N1/NS

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	DHI MEZA	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:		24 AUG 2023

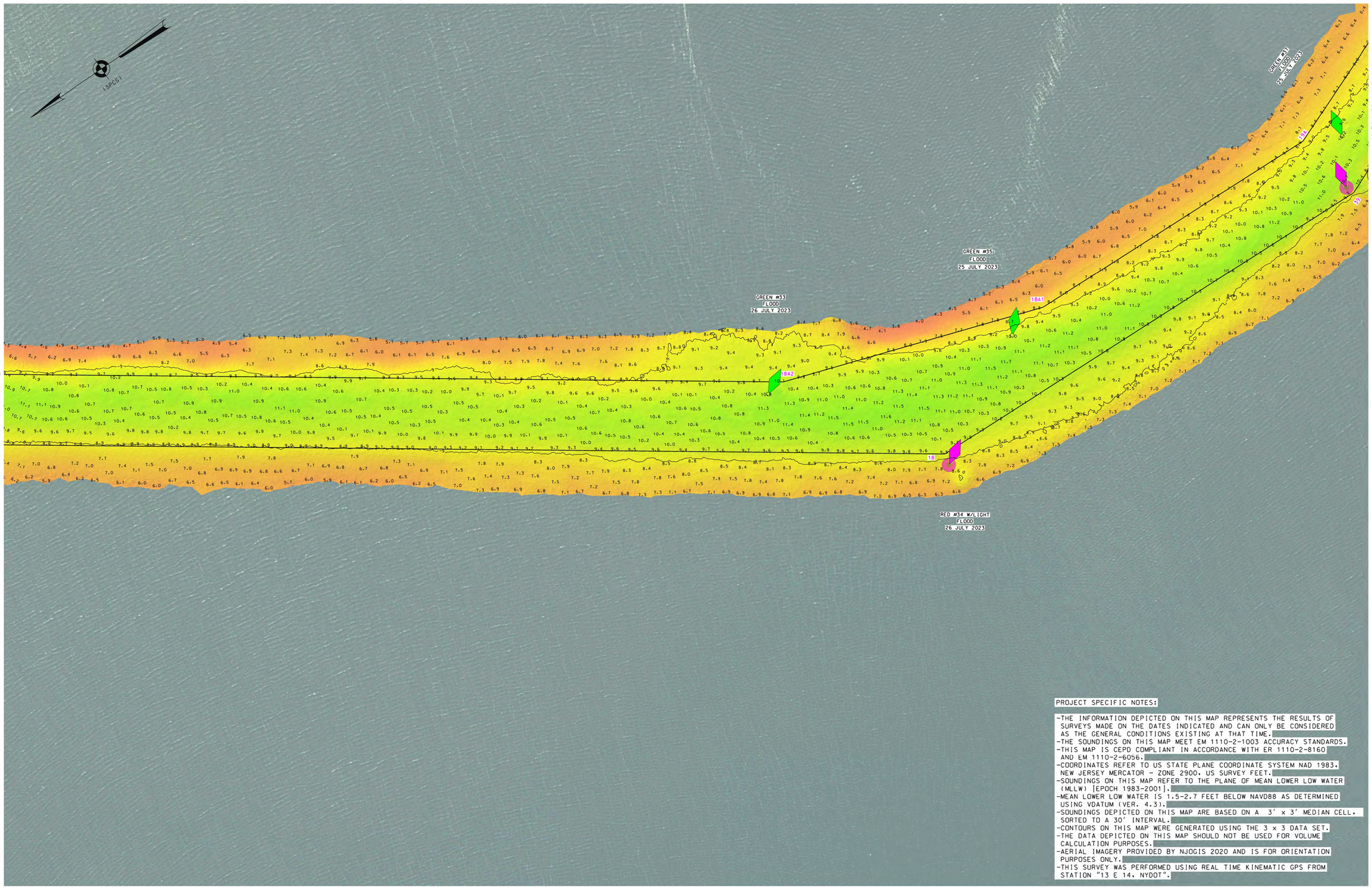
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-112

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PROJECT SPECIFIC NOTES:

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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SJG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. $320/AL/N1/NJ

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE A. DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023

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

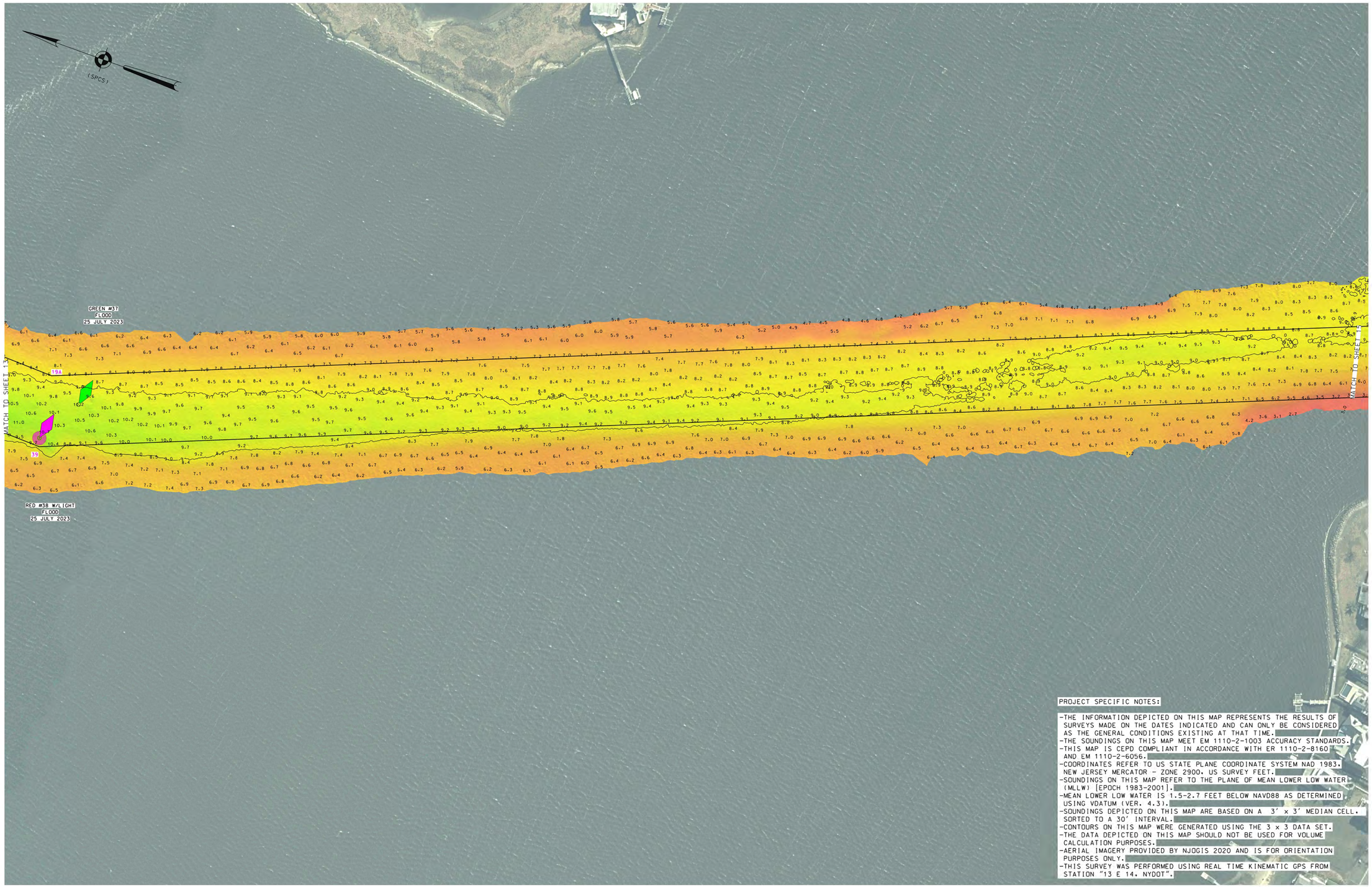
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-113

13 of 27



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.
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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/NA

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

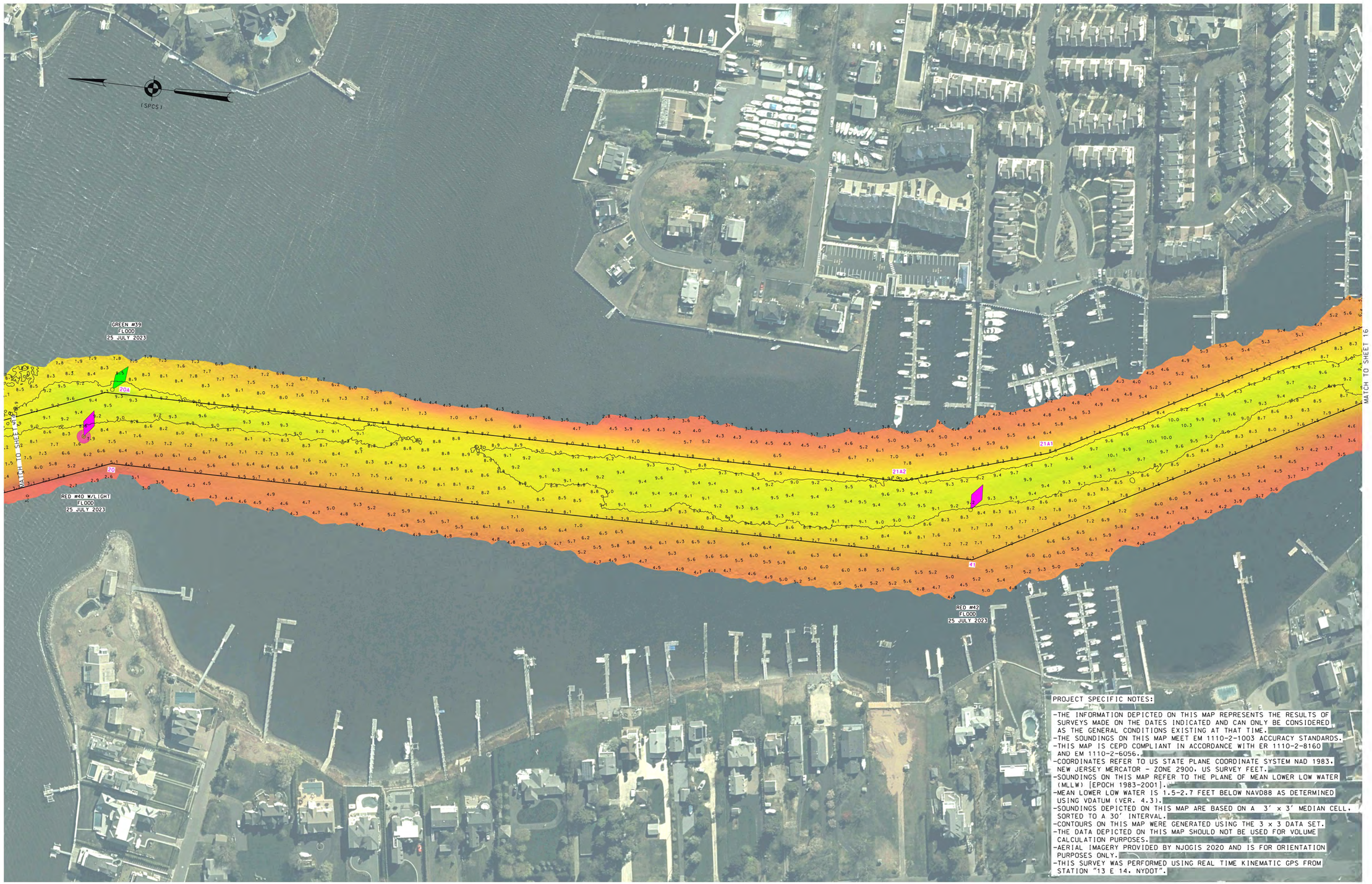
APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE JAMIESON	DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023	

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

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-114



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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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

0 100' 200'

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
MP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/N1/NS

APPROVED: N. VITOLO FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 24 AUG 2023

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

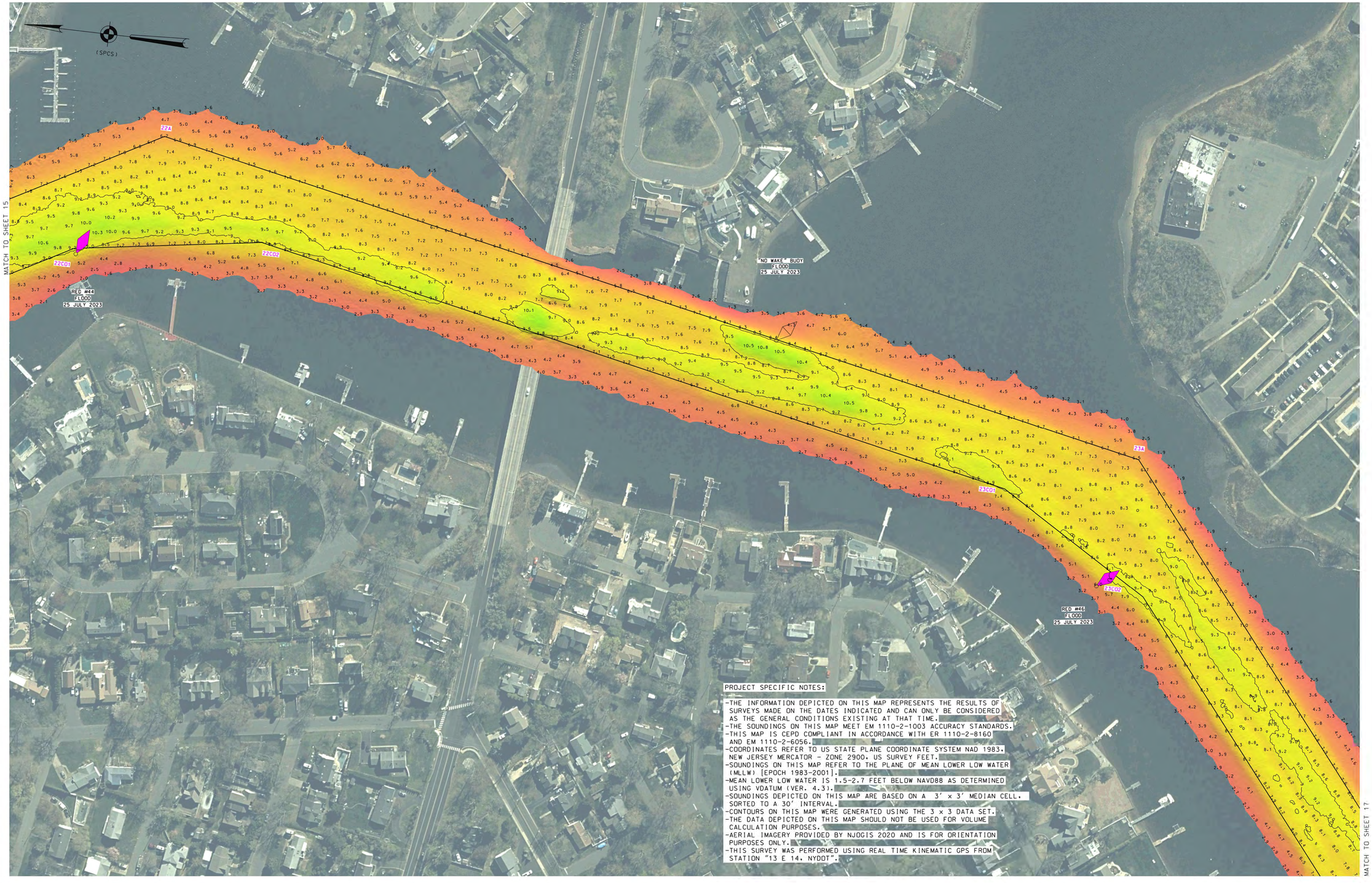
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-115

15 of 27



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.
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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO. 5320/AL/N1/NA

APPROVED: N. VITOLO
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

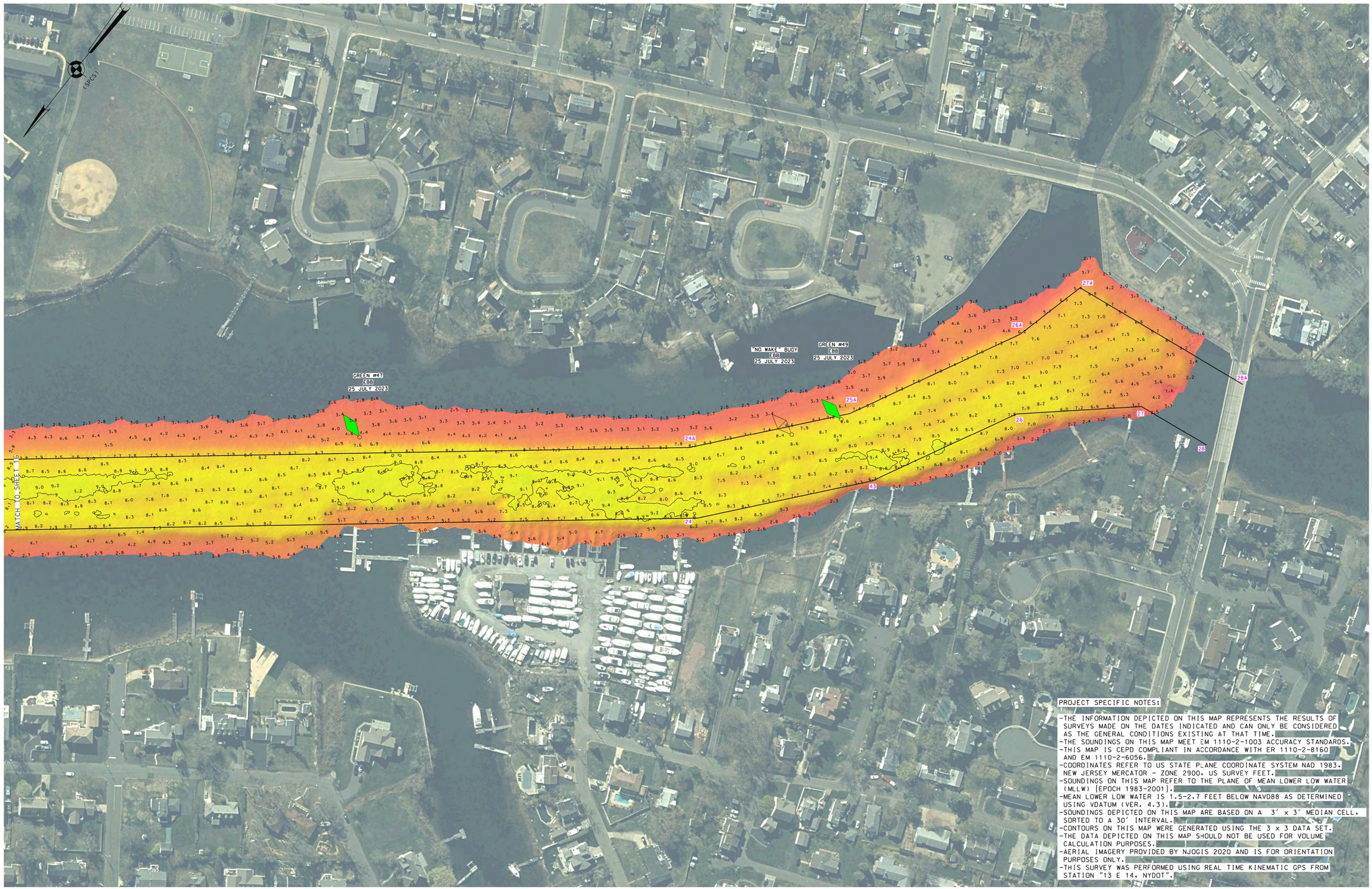
DATE: 24 AUG 2023

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

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-116



PROJECT SPECIFIC NOTES:

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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

0 100' 200'

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO. 5320/AL/N1/NS

APPROVED:	N. VITOLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MR&A, CHIEF, OPERATIONS DIVISION; DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023

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

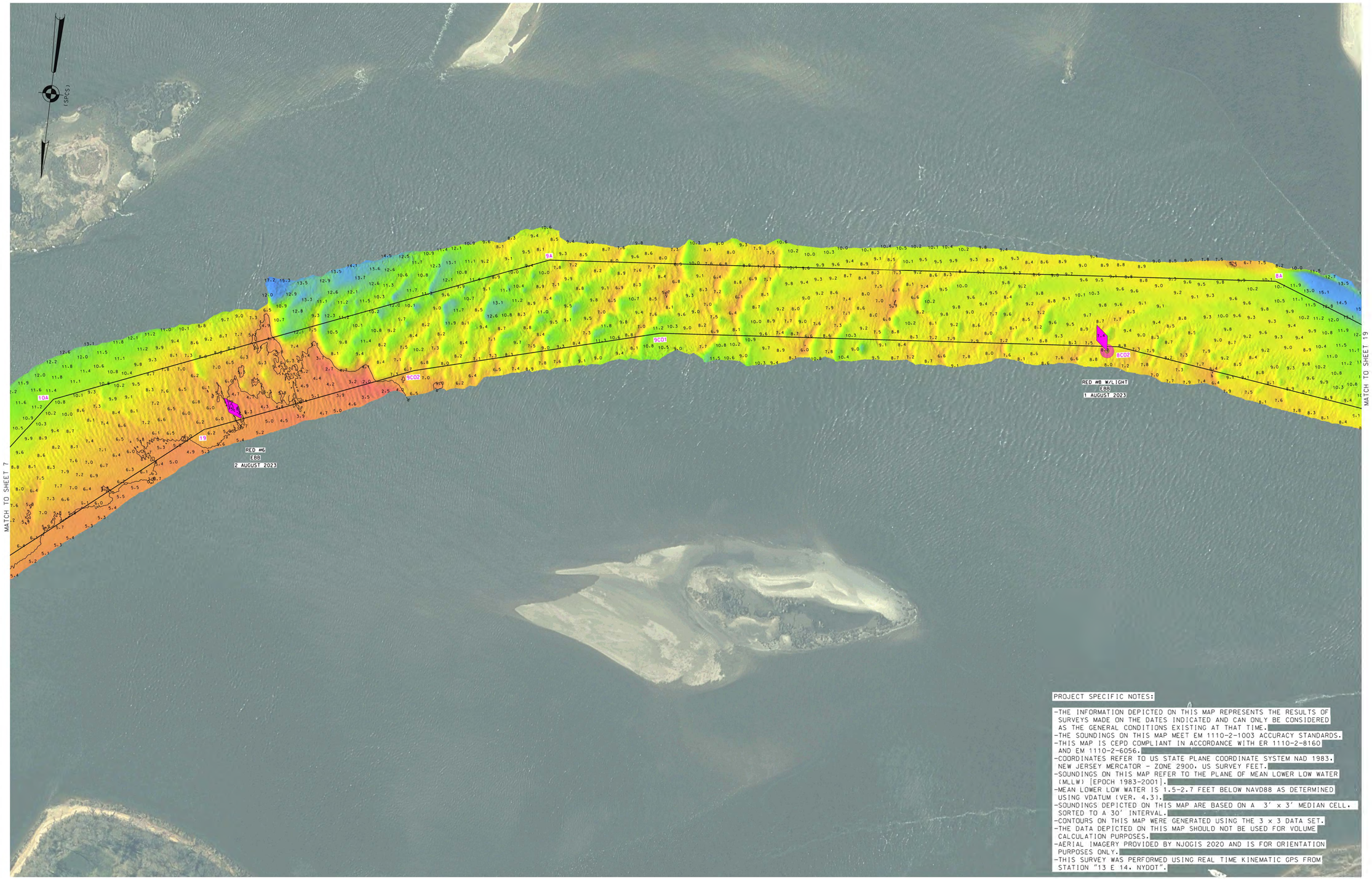
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-117

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PROJECT SPECIFIC NOTES:

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BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE AZ	DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023	

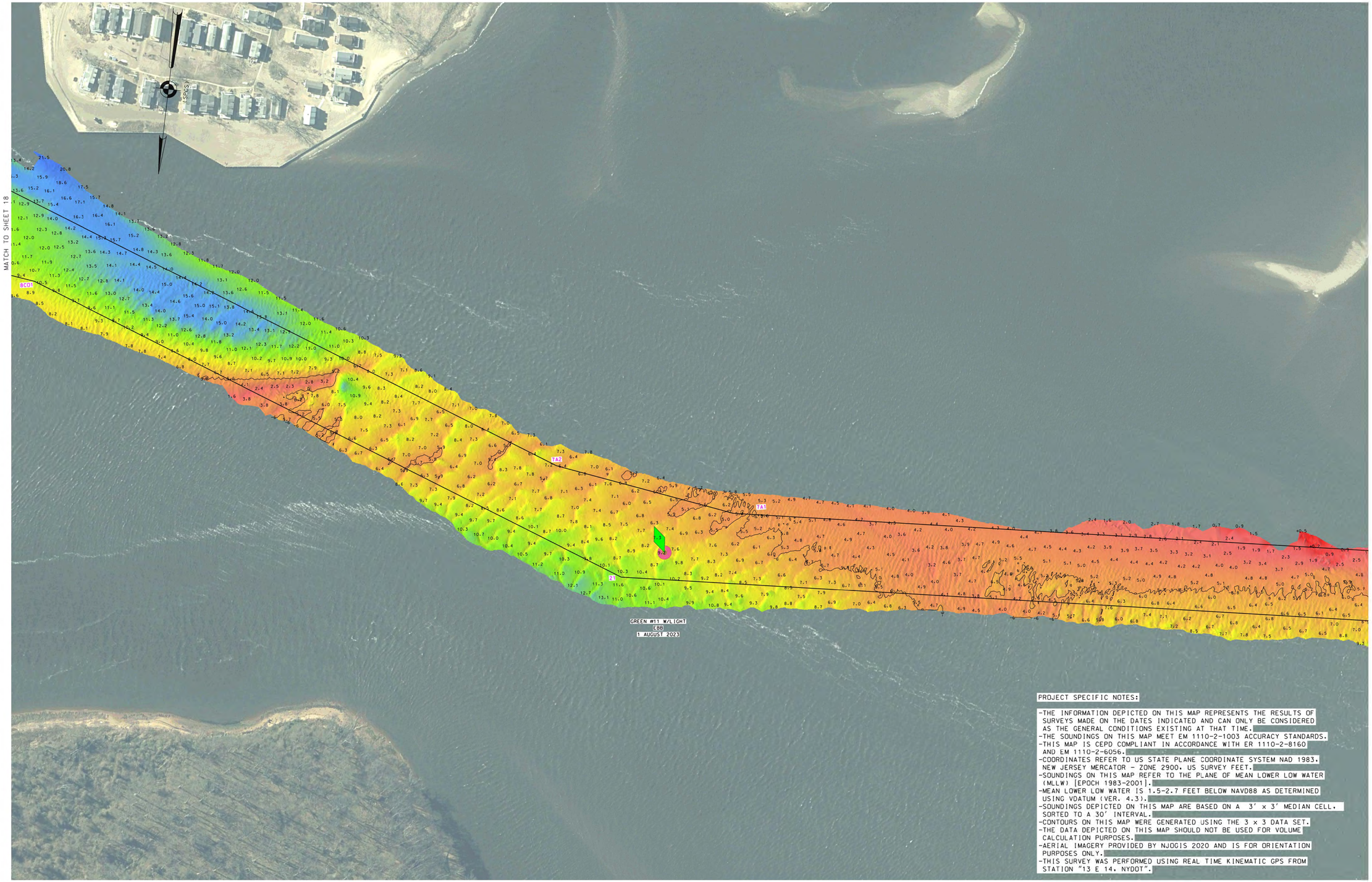
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-118



PROJECT SPECIFIC NOTES:

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-AERIAL IMAGERY PROVIDED BY NJOGIS 2020 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS, EO
WP	JHS, SG

DATES OF SURVEY:
24-26, 31 JULY,
1-3, 9-14, 15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/NS

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE Z	DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:		24 AUG 2023

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

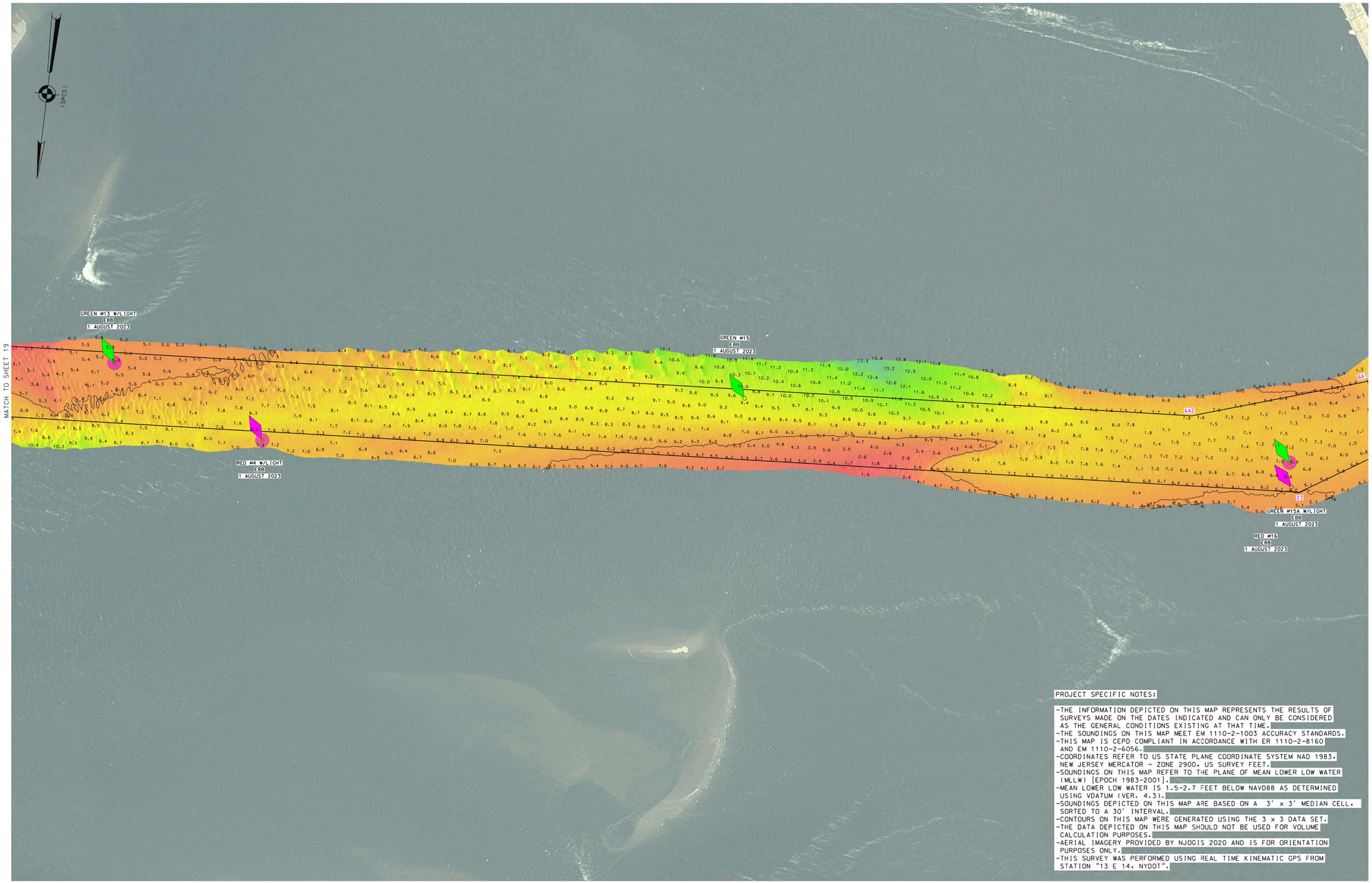
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-119

19 of 27



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 1.5-2.7 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.
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-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NJOGIS 2020 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 627O (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	JHS,EO
	WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REQ. NO./FILE NO. 5320/AL/N1/NA

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:		CHIEF, SURVEYS AND MAPPING BRANCH
DATE:		24 AUG 2023

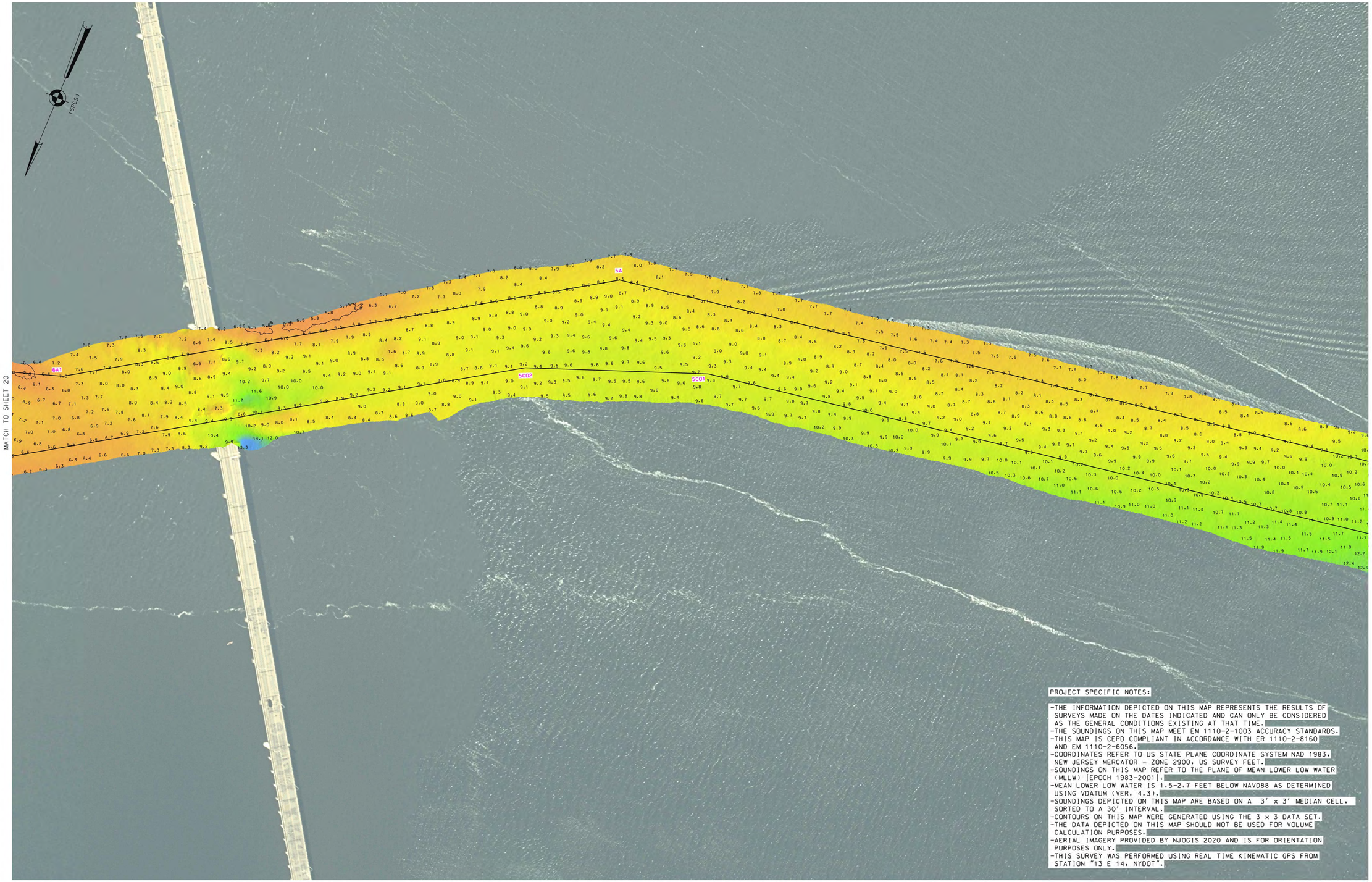
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-120



0 100' 200'

PROJECT SPECIFIC NOTES:

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-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.
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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO. 5320/AL/N1/XX

APPROVED:	N. VITOLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE, DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023

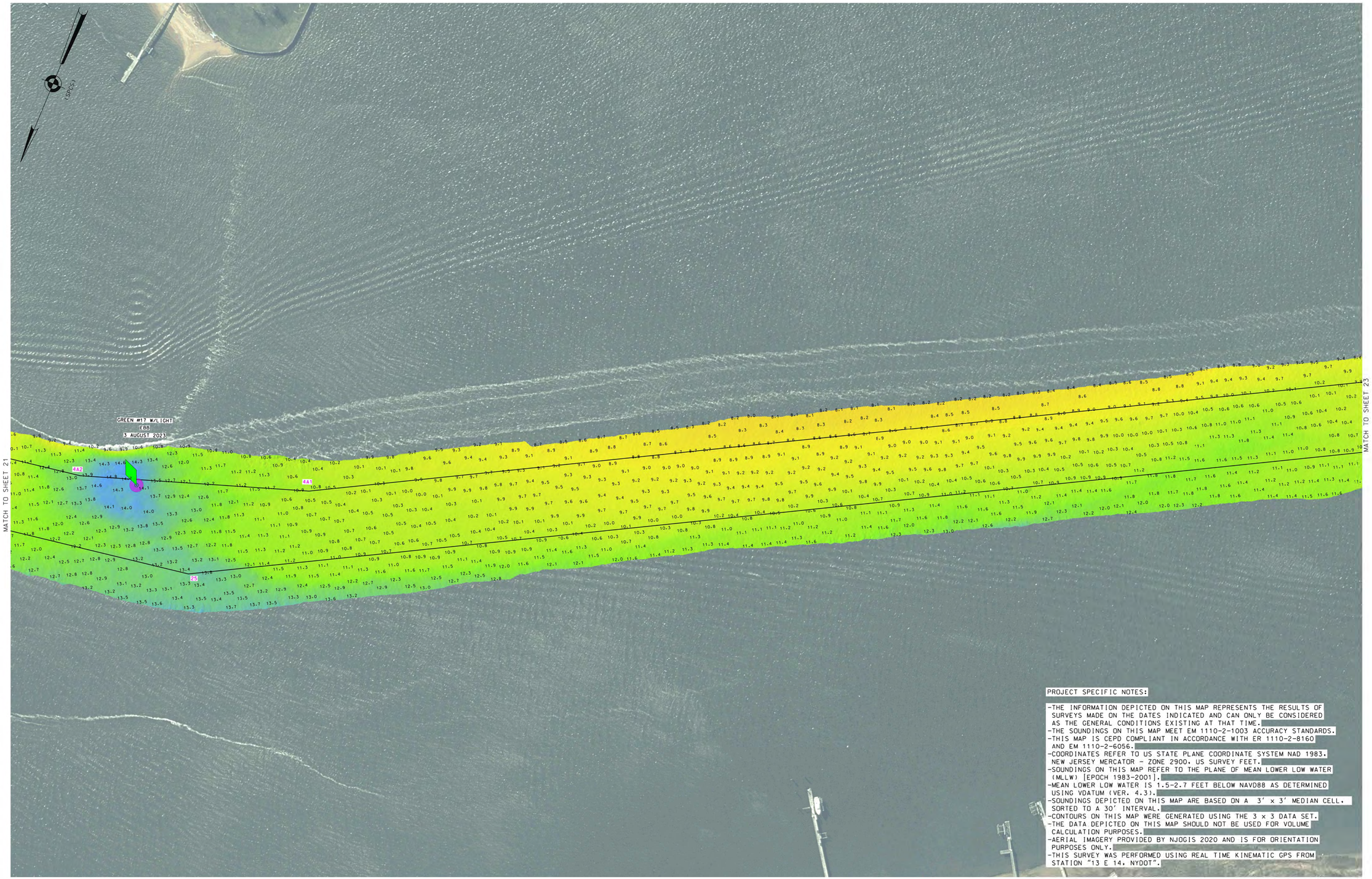
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-121

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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.
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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

0 100' 200'

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9,14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO.-5320/AL/N1/NJ

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARKEYS	DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 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

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-122



PROJECT SPECIFIC NOTES:

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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
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ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,EO
WP	JHS,SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REQ. NO./FILE NO. 5320/AL/N1/NJ

APPROVED: N. VITOLO
FIELD CARTOGRAPHER
M. FORTE
CIVIL ENGINEERING TECHNICIAN
P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ
DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 24 AUG 2023

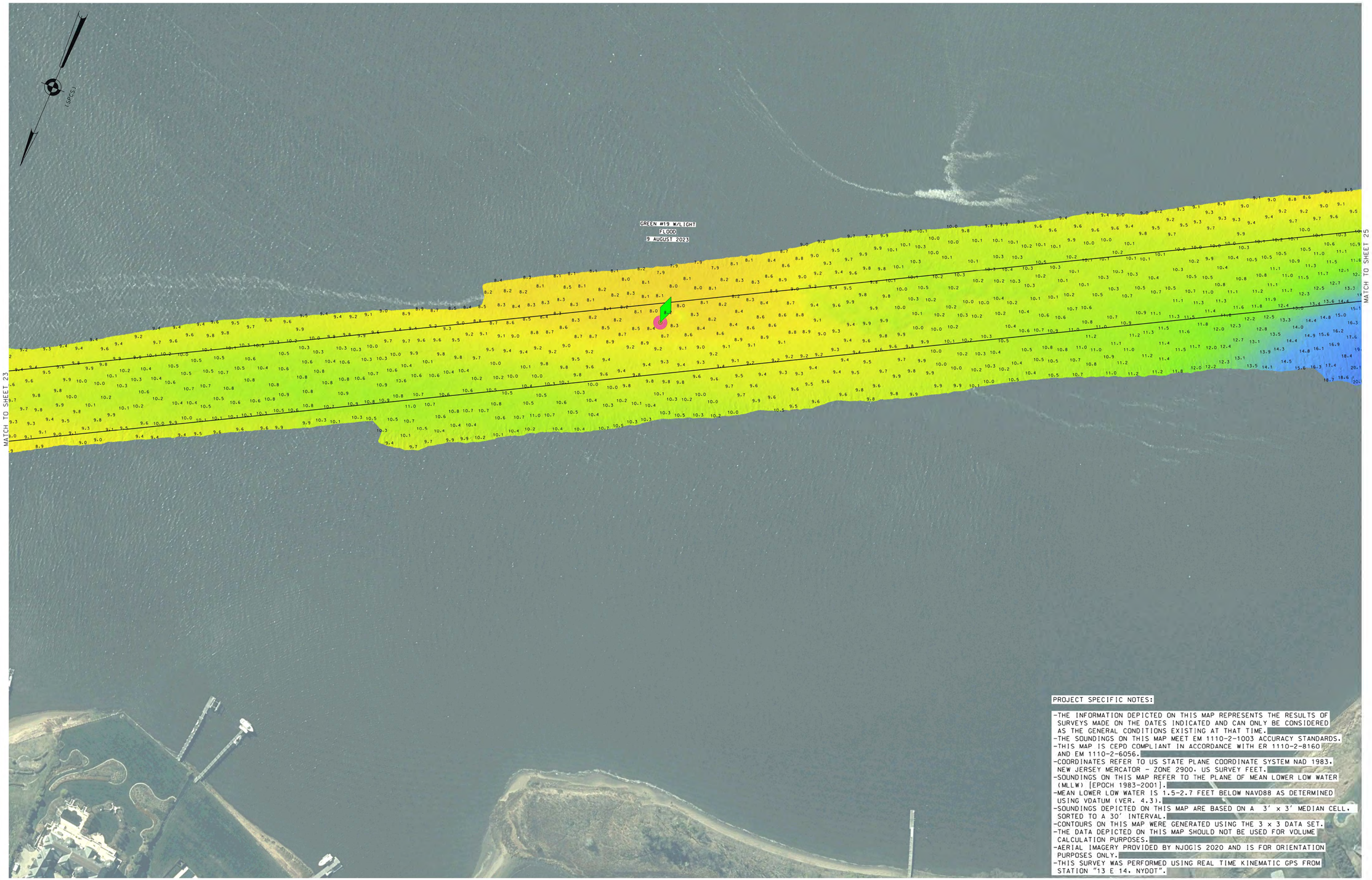
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-123



PROJECT SPECIFIC NOTES:

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0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26.31 JULY,
1-3.9-14.15 AUG 2023

REG. NO./FILE NO. 5320/AL/N1/NS

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE A. [redacted]	DEPUTY FOR SURVEYS AND MAPPING BRANCH
DATE:	24 AUG 2023	

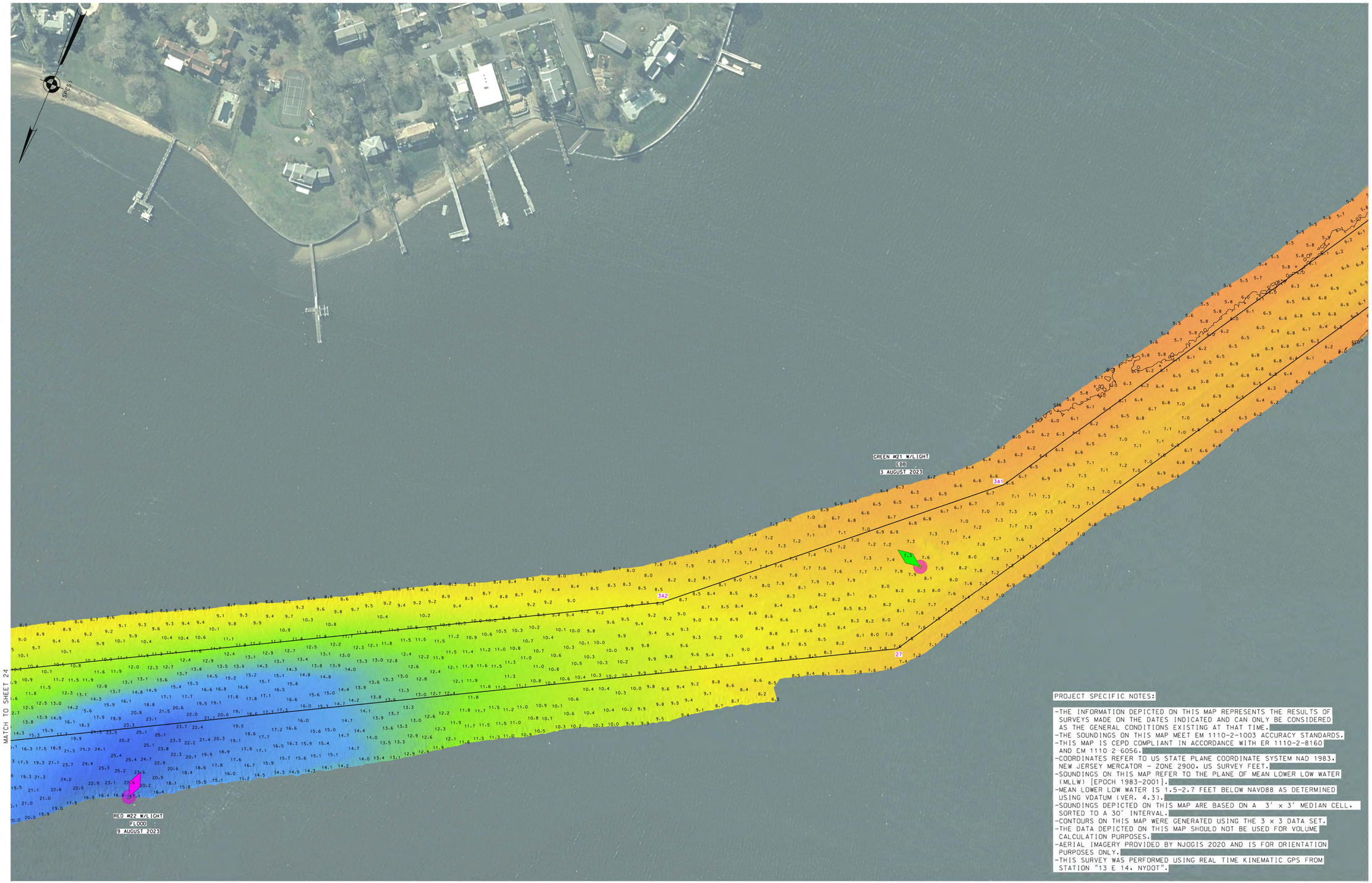
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-124



PROJECT SPECIFIC NOTES:

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NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SJG

DATES OF SURVEY:
24-26 JULY,
1-3, 9-14, 15 AUG 2023

REG. NO./FILE NO. 5320/AL/N1/XX

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED:	N. VITOLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE KLEINSCHMIDT	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:		24 AUG 2023

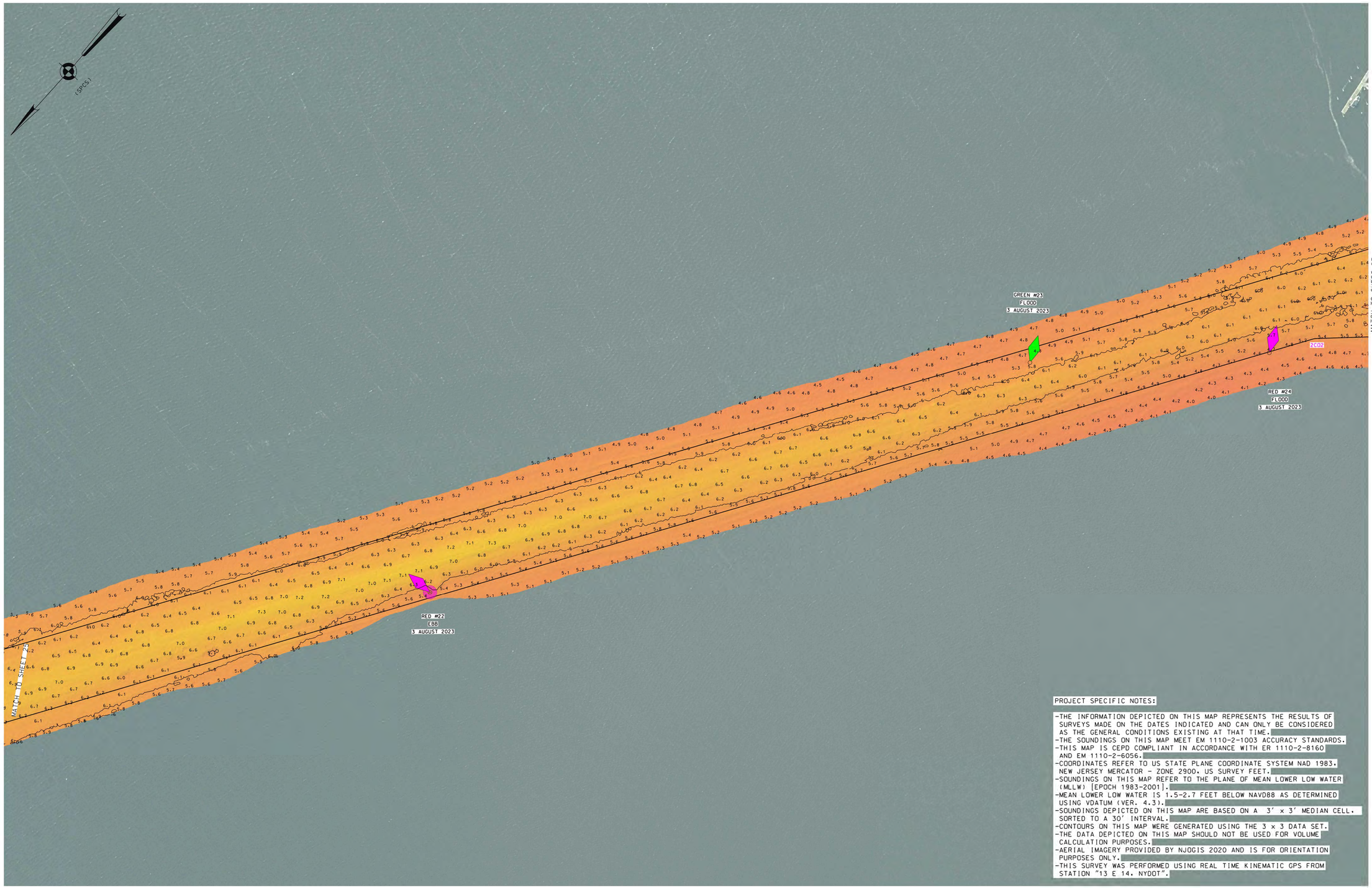
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-125

25 of 27



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.
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-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "13 E 14, NYDOT".

0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS,FEO
WP	JHS,SJG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

REG. NO./FILE NO.-5320/AL/N1/NY

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

APPROVED: N. VITOLO
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: 24 AUG 2023

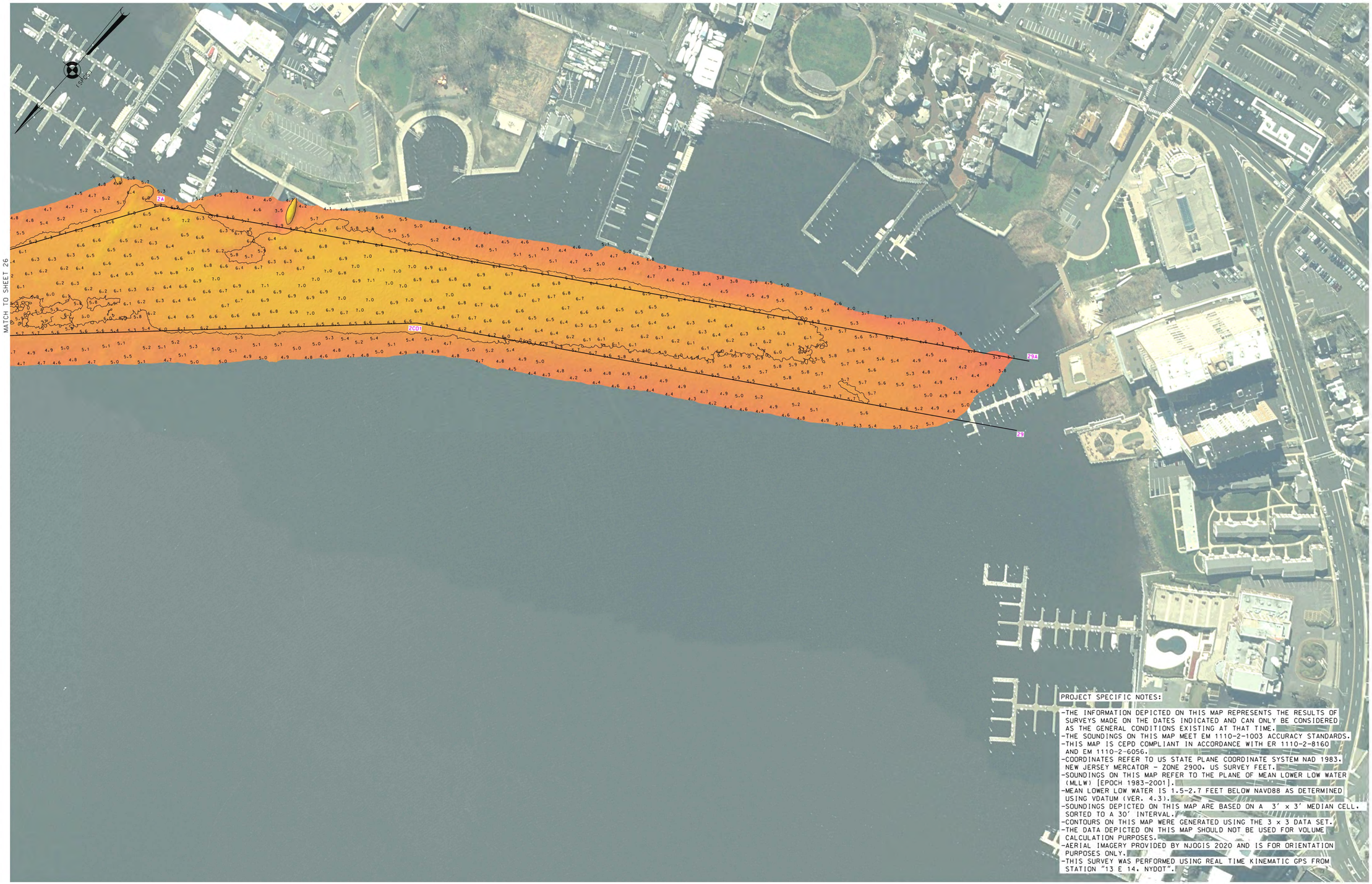
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-126



0 100' 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: 6270 (PID: DG9898)	BENCHMARK: 13 F 16 (PID: DR5371)
ELEVATION: 7.20' (NAVD 1988)	ELEVATION: 7.53' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	JHS.EO
WP	JHS.SG

DATES OF SURVEY:
24-26,31 JULY,
1-3,9-14,15 AUG 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
N/A

REG. NO./FILE NO.-5320/AL/N1/NS

APPROVED:	N. VITOLO	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:	24 AUG 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

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-127

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