E 536.000 | E 546.000 | E 556.000 | E 566.000

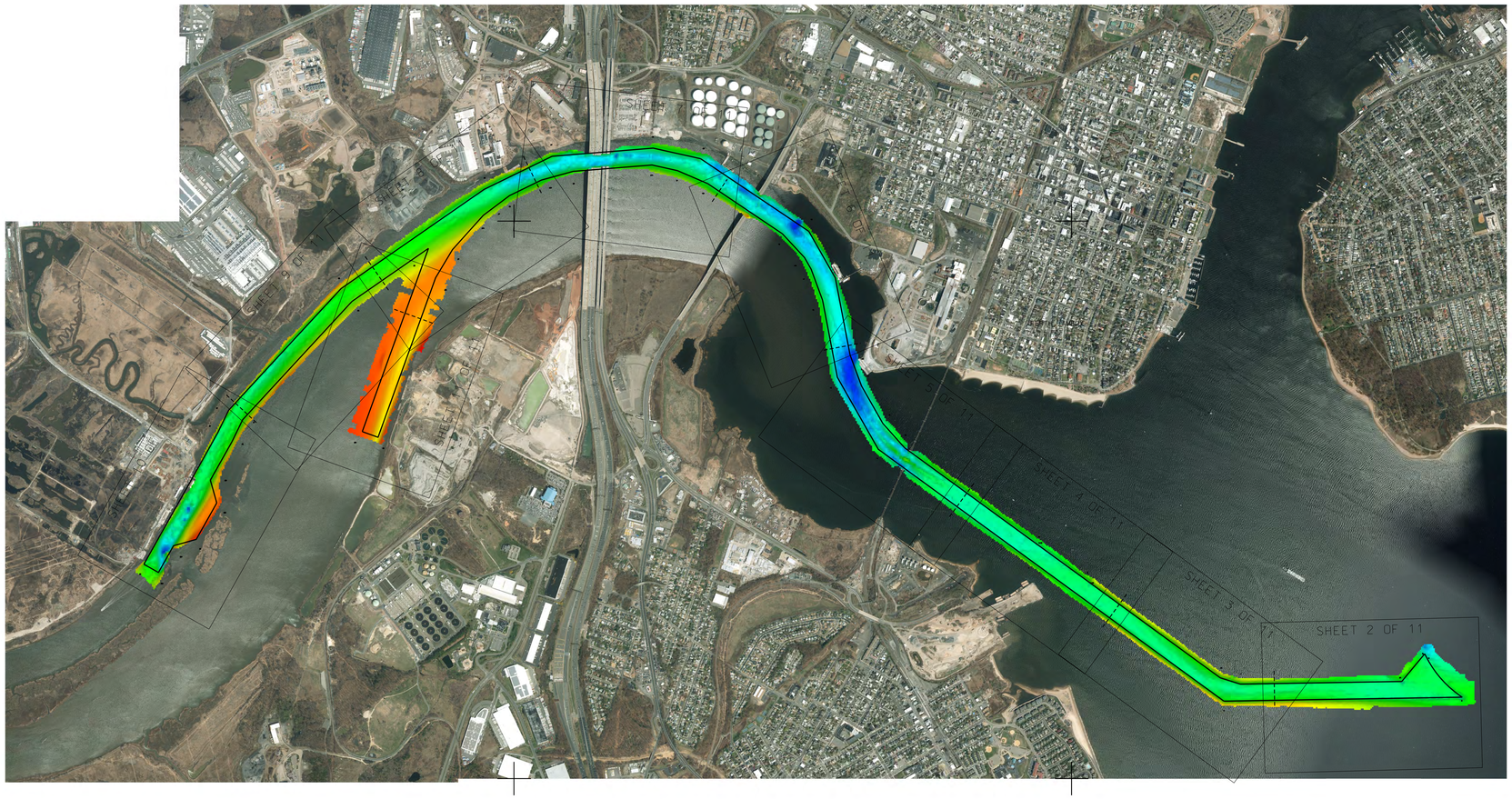
N 610.000

N 600.000

GRID NORTH

TABULATION OF CHANNEL COORDINATES
U.S. STATE PLANE. NAD 83.
ZONE 2900. NEW JERSEY. U.S. FEET

EASTING	NORTHING	POINT
562332.896	602237.683	X6
561921.440	601741.950	2A
562377.602	602153.063	T3
563006.270	601460.070	3
559027.490	601693.550	4
558665.930	601808.010	4A
558732.040	601388.590	5
556294.490	603536.868	6
555236.714	603936.776	7
555413.438	604179.174	8
553156.540	605453.280	9
553004.820	605935.130	10
552533.540	605907.460	11
552614.160	606372.610	12
551799.070	607199.350	13
552232.620	607043.720	14
552027.930	607599.100	14A
551534.230	608582.010	15
551763.070	608981.900	16
551329.320	609137.270	17
551210.180	609346.430	17A
551287.470	609816.800	18
550812.690	609774.340	19
549475.340	610672.550	19A
549346.600	611120.370	20
548933.470	610904.830	21
548475.640	611006.500	21A
548496.540	611309.140	22
547062.360	610892.200	23
546493.630	610736.740	23A
546682.880	611162.470	24
545920.310	610457.710	25
545466.630	610570.510	26
545489.990	610133.410	27
545450.060	610103.330	27A
544466.950	609511.860	28
543096.680	608561.200	29
542898.670	608788.920	30
541134.390	606437.390	31
540883.810	606608.220	32
540945.550	606047.320	33
540555.650	605353.610	33A
540670.170	604945.140	33B
540679.560	606186.290	34
540302.710	604291.380	35
539894.230	604176.860	35A
539624.760	603697.450	35B
539363.260	603844.420	36
544897.390	609488.400	37
544595.010	608983.140	37A
543562.230	606122.080	39
543280.080	606223.930	39A



NSRS BENCHMARK
BENCHMARK: B5 (PID: KV0006)
ELEVATION: 63.49' (NAVD88)

LOCAL CONTROL DATA
BENCHMARK: HESS 83 RESET 1988
ELEVATION: 10.25' (NAVD88)

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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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR ESU/CM
MP JE

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.15014/N1

SCALE:
ONE INCH = 1000FEET

FIELD BOOKS:
1037

APPROVED: M. APPELD — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRABER — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 13 JANUARY 2021

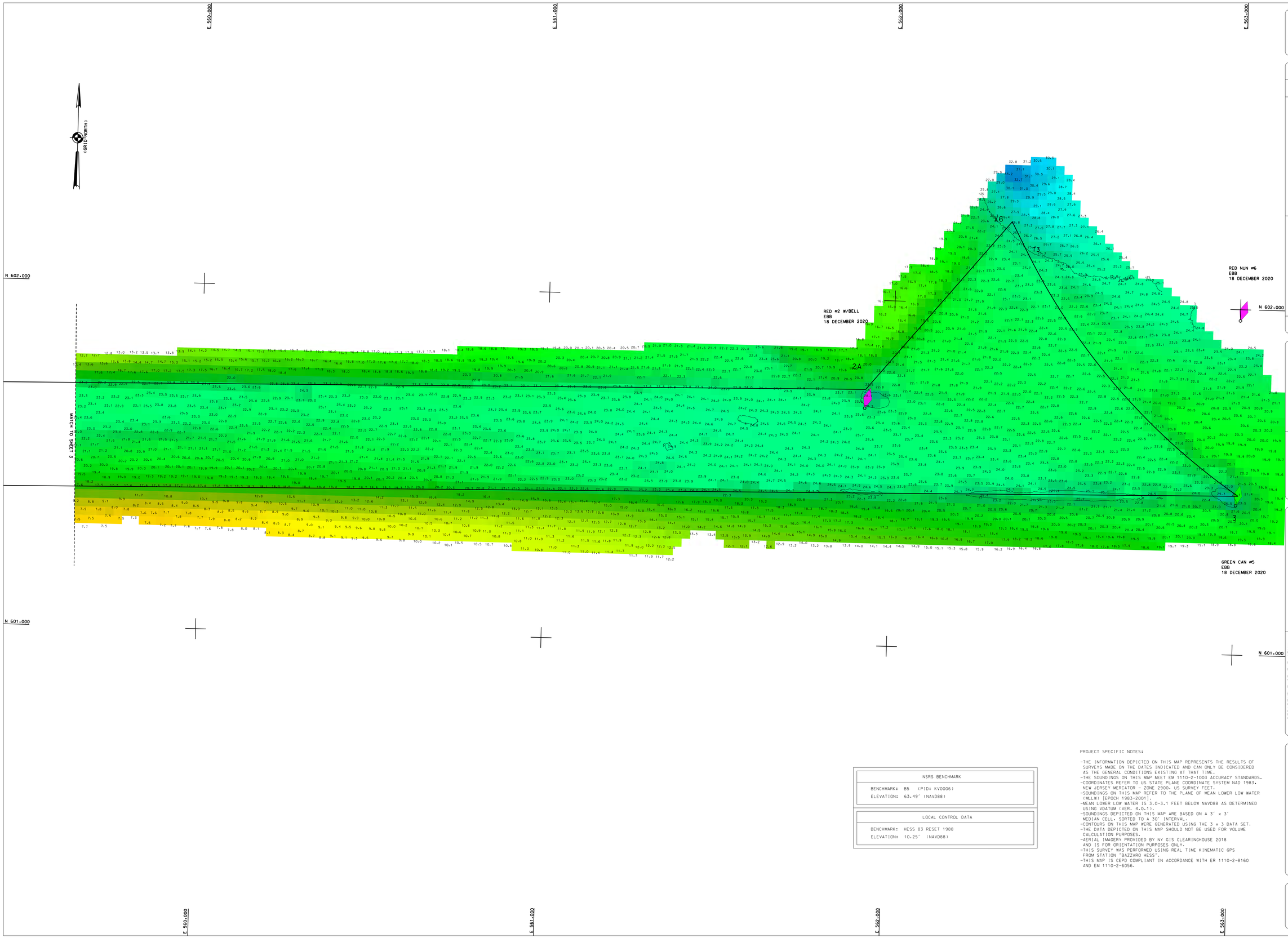
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-101

SHEET 1 OF 11



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LOCAL CONTROL DATA	
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESO/CM		
MP	JE		

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.15014/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1301

APPROVED: M. APPELO — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LAND CARTOGRAPHER
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 13 JANUARY 2021

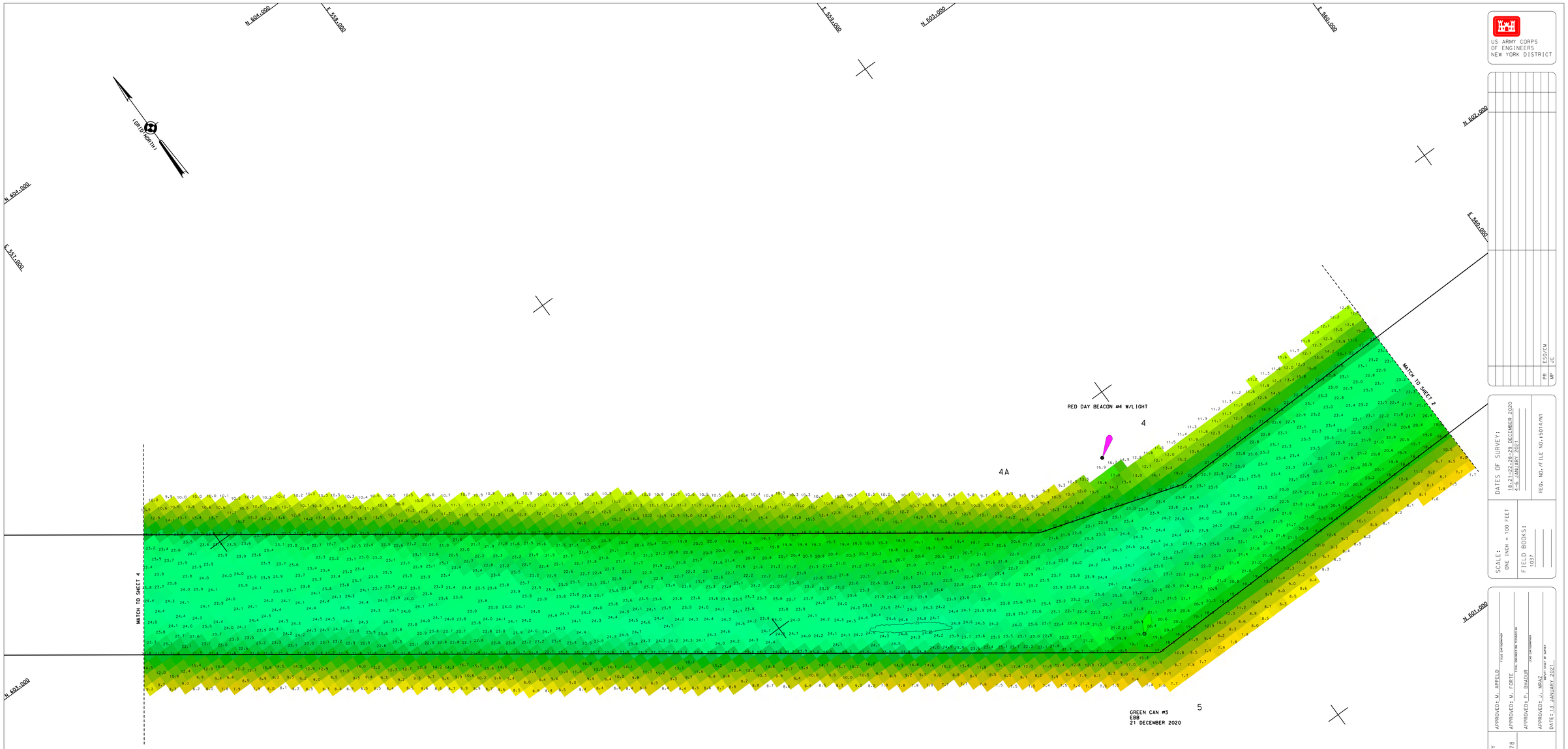
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-102

SHEET 2 OF 11



NSRS BENCHMARK	
BENCHMARK:	B5 (PID: KV0006)
ELEVATION:	63.49' (NAVD88)

LOCAL CONTROL DATA	
BENCHMARK:	HESS 83 RESET 1988
ELEVATION:	10.25' (NAVD88)

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

PR	ESO/CM	
MP	JE	

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.:5014/N1

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
1037

APPROVED: M. APPELO — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CADD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 13 JANUARY 2021

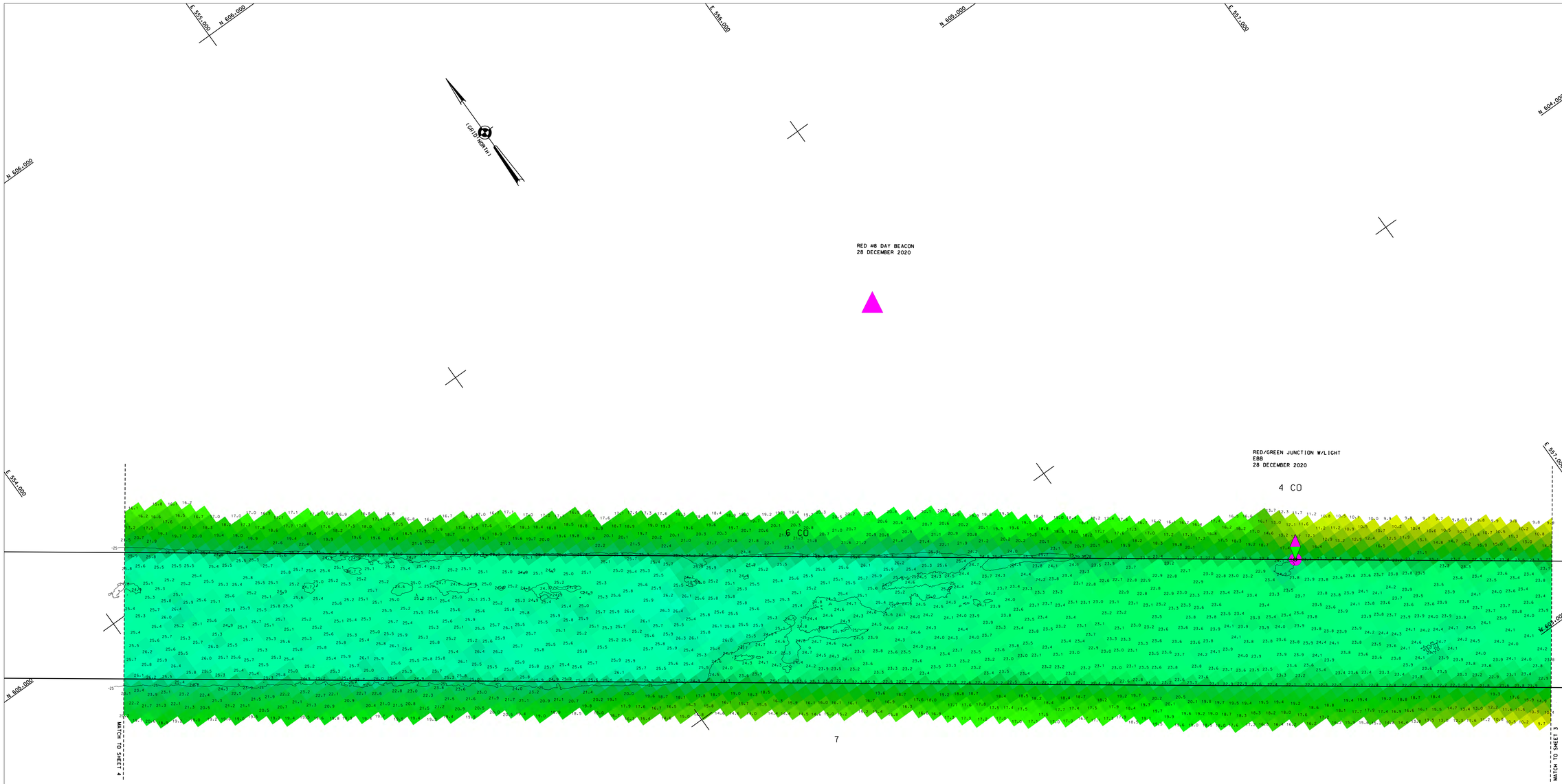
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-103

SHEET 3 OF 11



NSRS BENCHMARK	
BENCHMARK:	B5 (PID: KV0006)
ELEVATION:	63.49' (NAVD88)

LOCAL CONTROL DATA	
BENCHMARK:	HESS 83 RESET 1988
ELEVATION:	10.25' (NAVD88)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR ESO/CM
MP JE

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.:15014/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1537

FIELD CARTOGRAPHER: CIVIL ENGINEERING TECHNICIAN
LEAD CARTOGRAPHER:
SENIOR CHIEF OF SURVEY:

APPROVED: M. APPELO
APPROVED: M. FORTE
APPROVED: P. BAUGUR
APPROVED: J. MRAZ
DATE: 13 JANUARY 2021

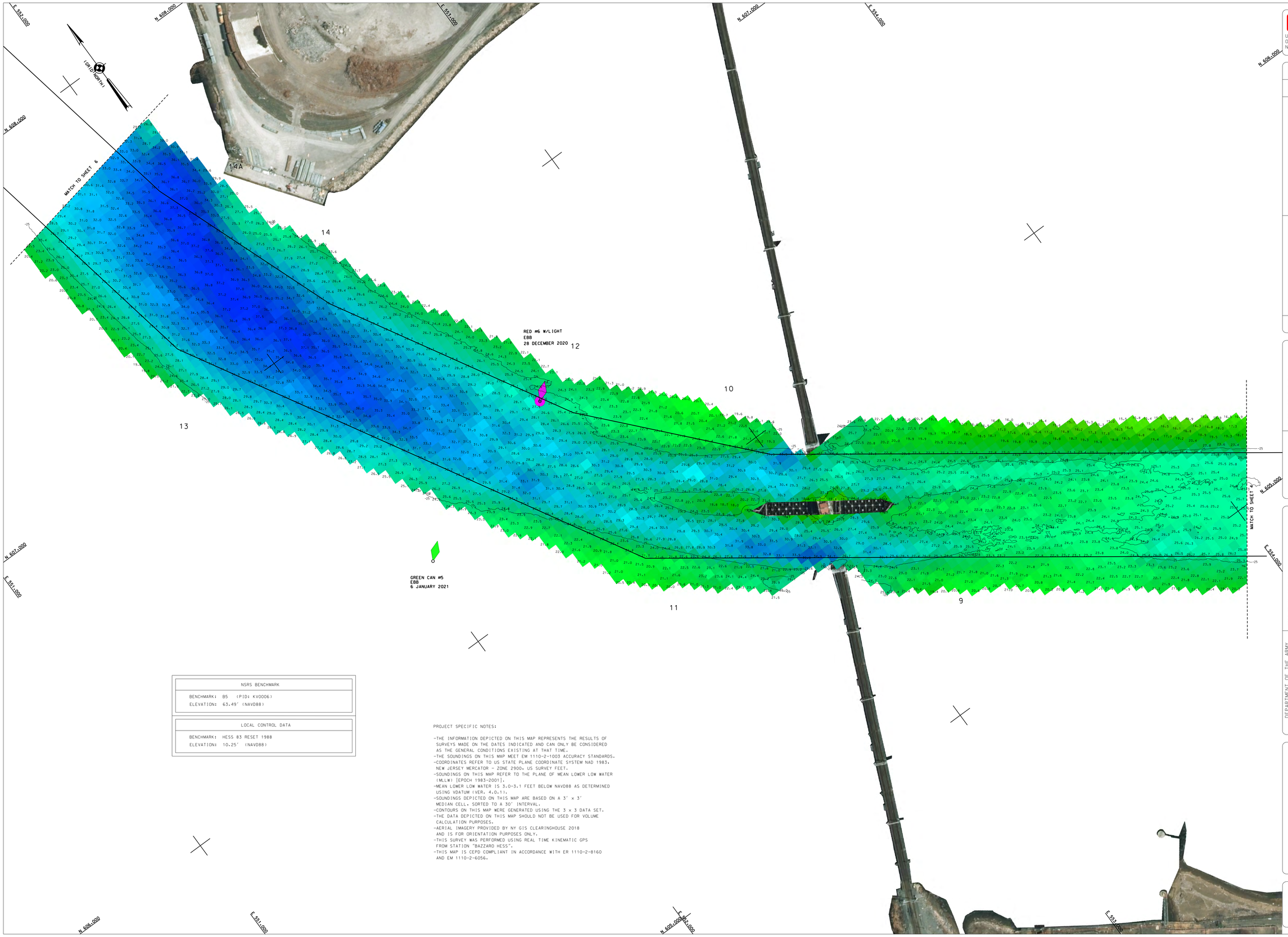
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-104

SHEET 4 OF 11



NSRS BENCHMARK
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESG/CM		
WP	JE		

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REG. NO./FILE NO.15014/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1037

APPROVED: M. APPELO
CHIEF CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHAZUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 13 JANUARY 2021

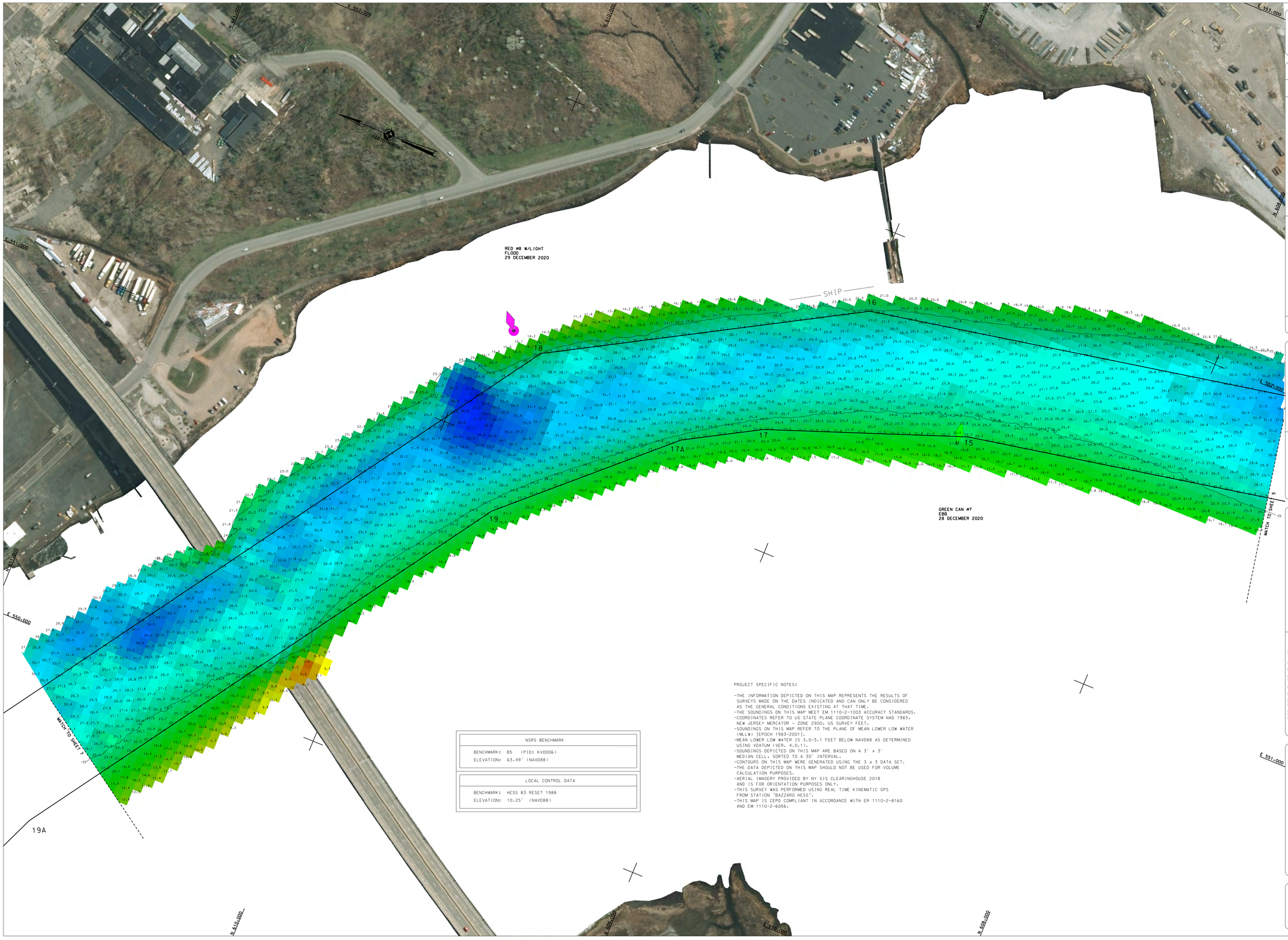
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-105

SHEET 5 OF 11



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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR ESD/CM
WP JE

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.:15014/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1037

APPROVED: M. APPELD — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BRAUER — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 13 JANUARY 2021

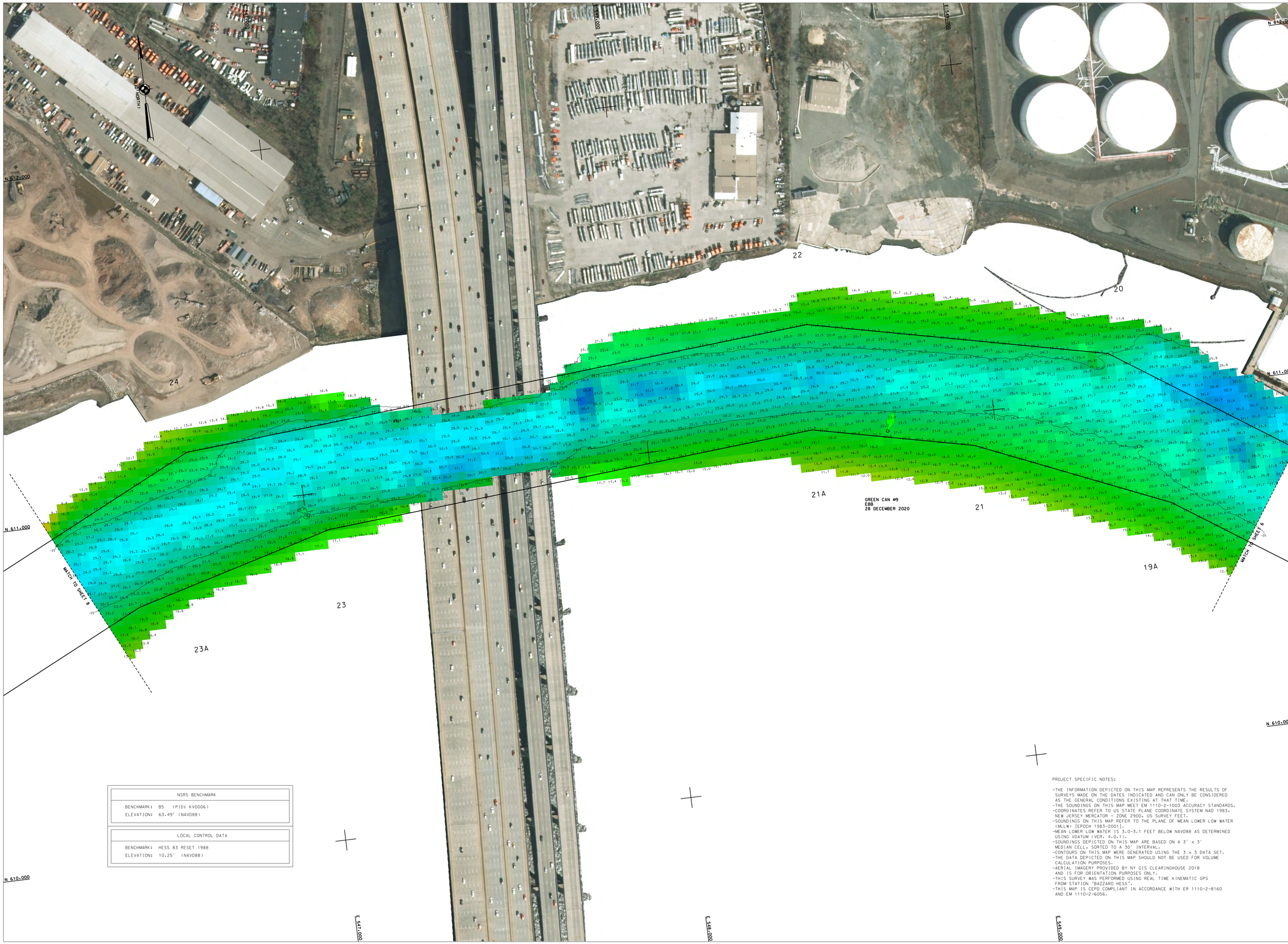
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-106

SHEET 6 OF 11



NSRS BENCHMARK
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR ESO/CM
WP JE

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.:15014/N1

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
1037

APPROVED: M. APPELO, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHAGUR, LEAD CARTOGRAPHER
APPROVED: J. MRAZ, BRANCH CHIEF OF SURVEY
DATE: 13 JANUARY 2021

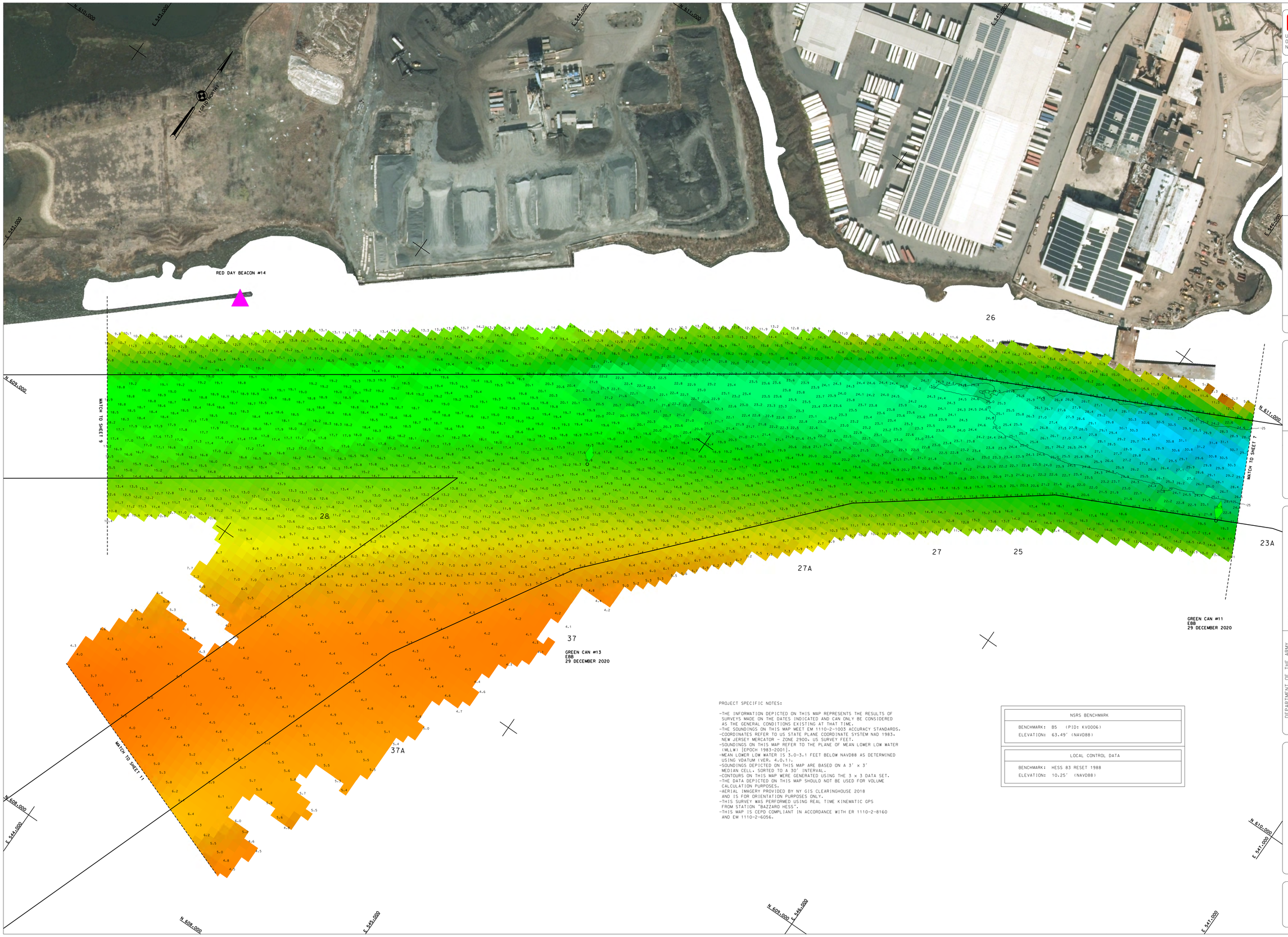
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-107

SHEET 7 OF 11



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NSRS BENCHMARK	
BENCHMARK:	B5 (PID: KV0006)
ELEVATION:	63.49' (NAVD88)

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BENCHMARK:	HESS 83 RESET 1988
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR ESQ/CM
WP JE

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.:15014/N1

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
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APPROVED: M. APPELD — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHAZUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, CHIEF OF SURVEY
DATE: 13 JANUARY 2021

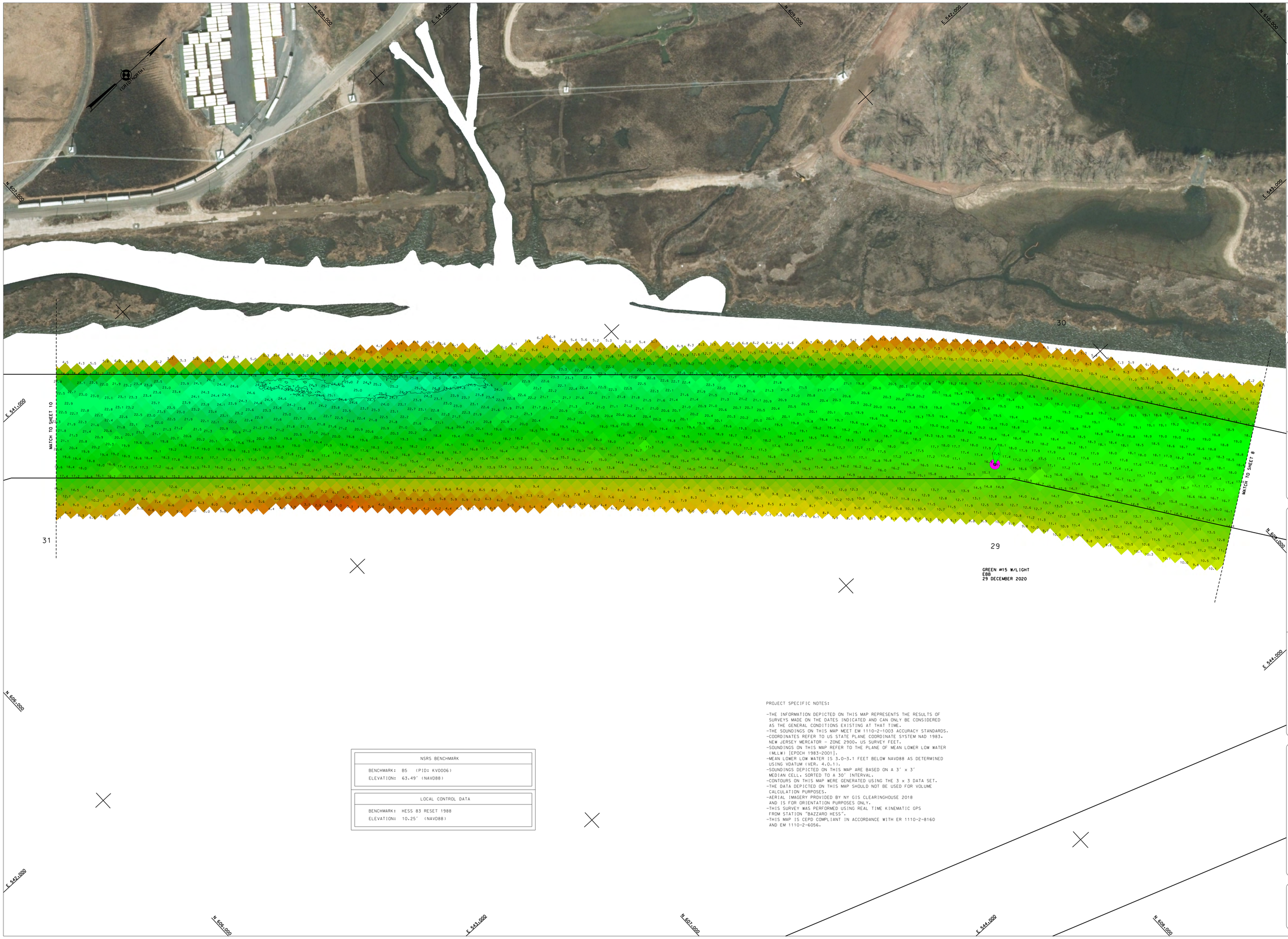
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-108

SHEET 8 OF 11



PROJECT SPECIFIC NOTES:

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- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK:	B5 (PID: KV0006)
ELEVATION:	63.49' (NAVD88)

LOCAL CONTROL DATA	
BENCHMARK:	HESS 83 RESET 1988
ELEVATION:	10.25' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	ESG/CM	
MP	JE	

DATES OF SURVEY:
18-21-22-28-29 DECEMBER 2020
4-6 JANUARY 2021

REQ. NO./FILE NO.-15014/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1537

APPROVED: M. APPELO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BIASDUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 13 JANUARY 2021

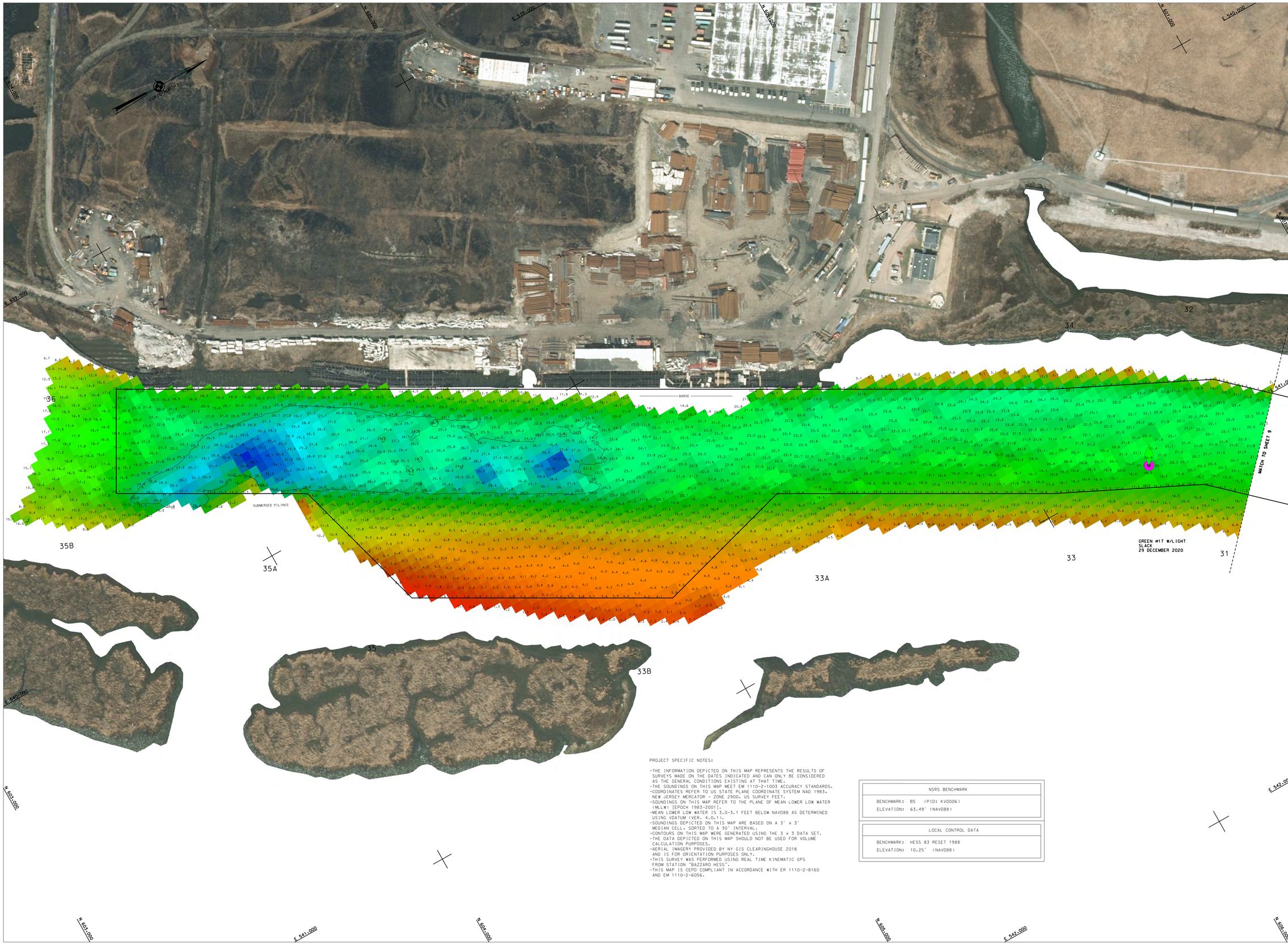
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-109

SHEET 09 OF 11



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NEW YORK DISTRICT

PR ESQ/CM
WP JE

DATES OF SURVEY:
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4-6 JANUARY 2021

REQ. NO./FILE NO.-15014/N1

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FIELD BOOKS:
1037

APPROVED: M. APPELO FIELD SUPERVISOR
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHAGUR LEAD SUPERVISOR
APPROVED: J. MRAZ BRANCH CHIEF OF SURVEY
DATE: 13 JANUARY 2021

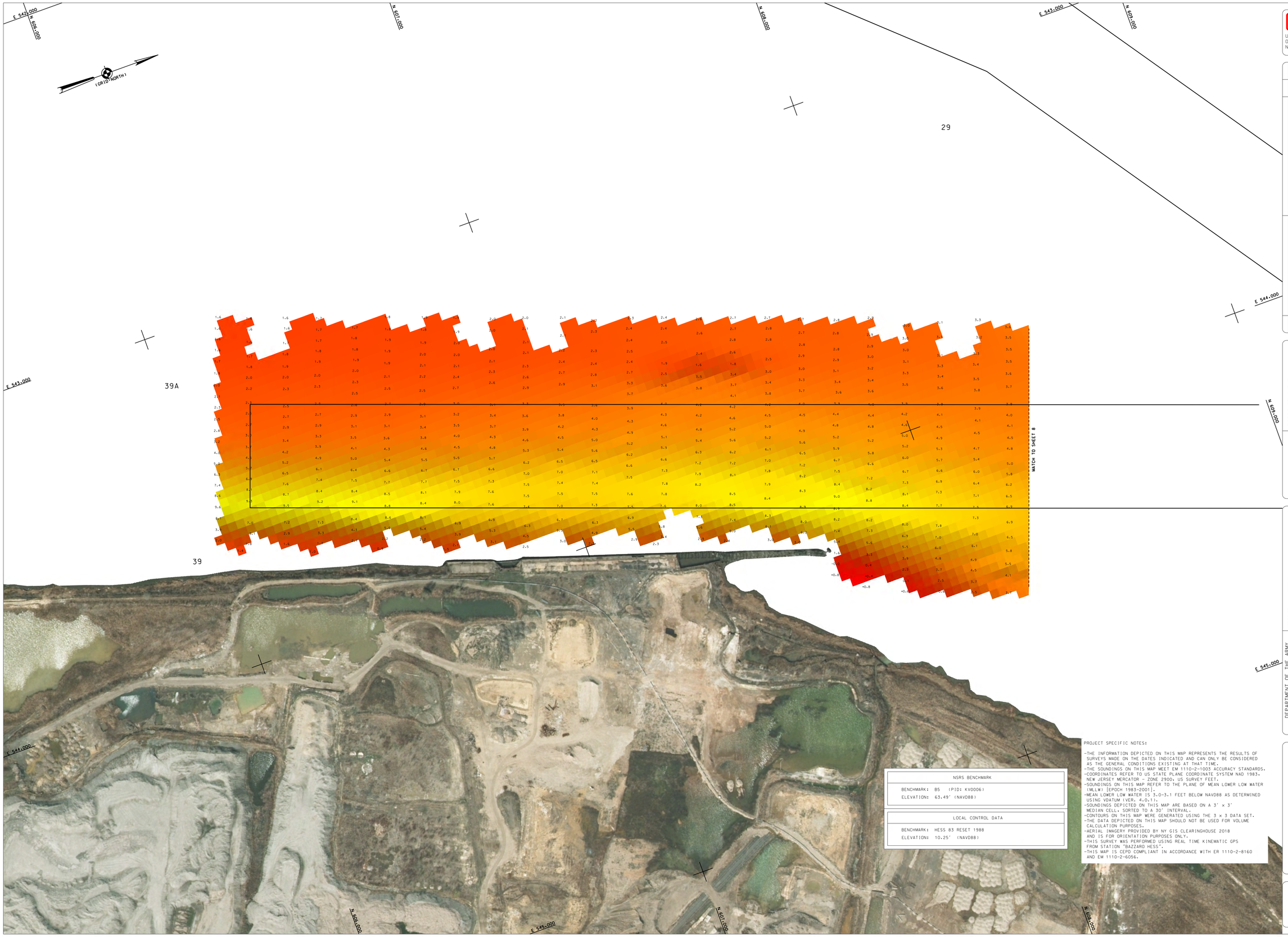
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-110

SHEET 10 OF 11



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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

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APPROVED: M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CHIEF, HYDROGRAPHIC TECHNICIAN

APPROVED: P. BHADUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 13 JANUARY 2021

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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-111

SHEET 11 OF 11