CORPS OF ENGINEERS

U. S. ARMY

N 233.000

E 1.027.500

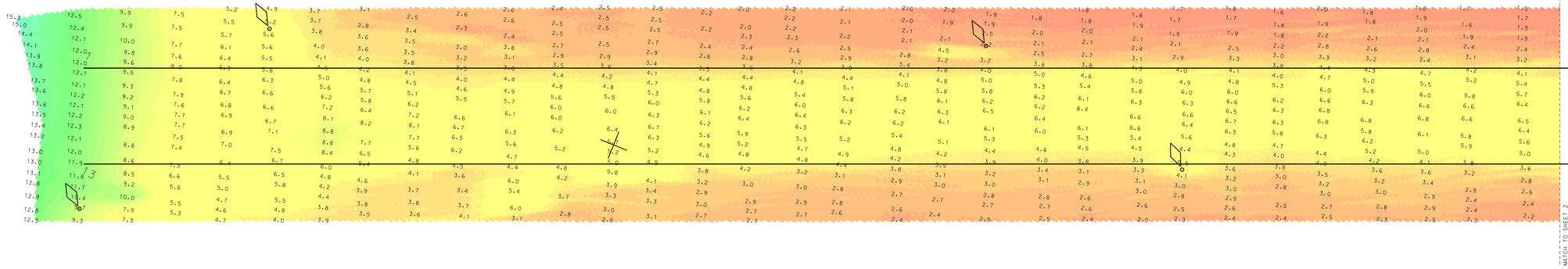
N 233.500

N 234.000

E 1.028.000

GREEN CAN # 1
EBB
17 APRIL 2015

GREEN CAN # 3
EBB
17 APRIL 2015



E 1.027.500

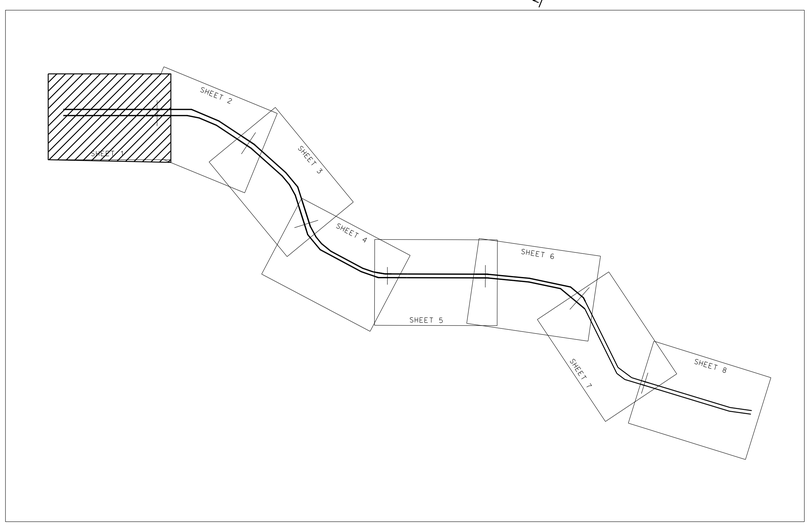
N 234.500

MATCH TO SHEET 2

E 1.028.500

N 233.000

RED NUN # 2
EBB
17 APRIL 2015




N 233.500

RED NUN # 4
EBB
17 APRIL 2015

E 1.028.000

| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027345.160 |
| 3 | 235387.555 | 1027352.054 |
| 44 | 236063.097 | 1027488.985 |
| 48 | 236715.052 | 1027723.022 |
| 5-65 | 236984.819 | 1027866.673 |
| 14 | 237414.921 | 1028385.892 |
| 15 | 237566.723 | 1028510.366 |
| 16 | 237690.779 | 1028577.278 |
| 17 | 237878.220 | 1028635.447 |
| 18 | 238463.832 | 1028698.420 |
| 19 | 238643.953 | 1028689.325 |
| 19A | 238836.634 | 1028647.029 |
| 20 | 240382.497 | 1028026.470 |
| 21 | 241045.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027792.684 |
| 33 | 242929.582 | 1028635.522 |
| 34 | 243199.789 | 1028706.242 |
| 35 | 244868.857 | 1028555.525 |
| 36 | 245213.701 | 1028470.060 |
| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.335 | 1028547.922 |
| 39 | 245473.440 | 1028552.959 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244878.830 | 1028614.861 |
| 43 | 243106.611 | 1028774.893 |
| 44 | 242949.686 | 1028733.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028083.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 238462.163 | 1028758.580 |
| 28 | 237708.060 | 1028677.489 |
| 29 | 237427.058 | 1028525.927 |
| 30-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027882.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.939 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
-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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' INTERVAL USING THE FULL DATA SET.
-CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE MAGNETOMETICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
-ALL UNDERWATER HAZARDS SHOWN ON THIS MAP WERE DETERMINED BY MEANS OF SIDESCAN SURVEY.
-THIS MAP IS CEPC COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| | JHS | FR |
| | BPH | FR |
| | BPH | MP |

DATES OF SURVEY:
17 & 21-24 APRIL 2015

FILE NO.: 65
REQUEST NO.: 4324x3

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

APPROVED: M. APPELD — CHIEF CARTOGRAPHER
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 JUNE 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

# WESTCHESTER CREEK
# NEW YORK
# CONDITION SURVEY

VH-101

SHEET 1 OF 8

FILE NO: 65
REQ. NO: 4324

CORPS OF ENGINEERS

U. S. ARMY

N 234.500 | N 235.000 | N 235.500 | N 236.000

E 1.027.000

E 1.027.500

E 1.028.000

GREEN CAN # 5
EBB
17 APRIL 2015

RED NUN # 6
EBB
17 APRIL 2015

RED NUN # 8
EBB
17 APRIL 2015

rocks/ pilings

MATCH TO SHEET 1

MATCH TO SHEET 3

SHEET 1 | SHEET 3 | SHEET 4 | SHEET 5 | SHEET 6 | SHEET 7 | SHEET 8

| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027345.160 |
| 3 | 235387.555 | 1027352.054 |
| 4A | 236063.097 | 1027488.985 |
| 4B | 236715.052 | 1027723.022 |
| 5-65 | 236984.819 | 1027866.673 |
| 14 | 237414.921 | 1028385.892 |
| 15 | 237566.723 | 1028510.366 |
| 16 | 237690.779 | 1028577.278 |
| 17 | 237878.220 | 1028635.447 |
| 18 | 238463.832 | 1028698.420 |
| 19 | 238643.953 | 1028689.325 |
| 19A | 238836.634 | 1028647.029 |
| 20 | 240382.497 | 1028026.470 |
| 21 | 241045.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027792.684 |
| 33 | 242929.382 | 1028635.522 |
| 34 | 243199.789 | 1028706.242 |
| 35 | 244868.857 | 1028555.525 |
| 36 | 245213.701 | 1028470.060 |
| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.535 | 1028547.922 |
| 39 | 245473.440 | 1028552.939 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244878.830 | 1028614.861 |
| 43 | 243106.611 | 1028774.893 |
| 44 | 242949.686 | 1028733.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028083.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 238462.163 | 1028758.580 |
| 28 | 237708.060 | 1028677.489 |
| 29 | 237427.058 | 1028525.927 |
| 10-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027882.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.939 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

PROJECT METADATA

CLICK ON ICON
EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
-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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' INTERVAL USING THE FULL DATA SET.
-CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
-ALL UNDERWATER HAZARDS SHOWN ON THIS MAP WERE DETERMINED BY MEANS OF SIDESCAN SURVEY.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR PR MP
JHS BPH BPH

DATES OF SURVEY:
17- 21-24 APRIL 2015

FILE NO.: 65
REQUEST NO.: 423443

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

APPROVED: M. APPELO — FIELD SURVEILLANCE
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, CHIEF OF SURVEY
DATE: 5 JUNE 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-102

SHEET 2 OF 8

FILE NO: 65
REQ. NO: 4324

FILE NO: 65
REQ. NO: 4324

SHEET 3 OF 8

VH-103

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

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.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "VNOOT RTKNET".
- ALL UNDERWATER MAZARDS SHOWN ON THIS MAP WERE DETERMINED BY MEANS OF SIDESCAN SURVEY.
- THIS MAP IS DEPICTANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

CLICK ON ICON
EDGE TO OPEN
MICROSTATION PROJECT METADATA

| STATION NAME | N.O.A.A.A. NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 2229957.598 | 1028133.105 |
| 2 | 2234044.164 | 1027345.160 |
| 3 | 2236043.097 | 1027488.985 |
| 4A | 2237414.921 | 1028310.166 |
| 5-65 | 2239084.819 | 1027866.473 |
| 40 | 2240715.052 | 1027233.022 |
| 14 | 2241644.223 | 1027488.985 |
| 15 | 2243643.832 | 1028310.166 |
| 16 | 2244643.951 | 1028689.420 |
| 17 | 2245643.832 | 1028310.166 |
| 18 | 2246643.951 | 1028689.420 |
| 19 | 2247643.832 | 1028310.166 |
| 20 | 2248643.951 | 1028689.420 |
| 21 | 2249643.832 | 1028310.166 |
| 22 | 2250643.951 | 1028689.420 |
| 23 | 2251643.832 | 1028310.166 |
| 24 | 2252643.951 | 1028689.420 |
| 25 | 2253643.832 | 1028310.166 |
| 26 | 2254643.951 | 1028689.420 |
| 27 | 2255643.832 | 1028310.166 |
| 28 | 2256643.951 | 1028689.420 |
| 29 | 2257643.832 | 1028310.166 |
| 30-68 | 2258643.951 | 1028689.420 |
| 7-68 | 2259643.832 | 1028310.166 |
| 8-68 | 2260643.951 | 1028689.420 |
| 9-68 | 2261643.832 | 1028310.166 |
| 10-68 | 2262643.951 | 1028689.420 |
| 11 | 2263643.832 | 1028310.166 |
| 12 | 2264643.951 | 1028689.420 |
| 13 | 2265643.832 | 1028310.166 |

| NOSRS BENCHMARK | |
|---|---|
| BENCHMARK: | M340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

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

OPERATIONS DIVISION
SURVEY SECTION
GRAN-OP-S

APPROVED: M. APPELO — CHIEF, SURVEY SECTION
APPROVED: M. FORTE — CHIEF, OPERATIONS DIVISION
APPROVED: D. CLARKE — CHIEF, CONSTRUCTION BRANCH
APPROVED: J. MIRAZ — CHIEF, ENGINEERING DIVISION
DATE: 5 JUNE 2015

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

DATES OF SURVEY:
17, 21-24 APRIL 2015

FILE NO.: 65
REQUEST NO.: 4324

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| DRAWN | CHK |
|---|---|
| BPH | SHS |
| PJR | PJR |
| WP | |

RED NUM = 10
FLOOD
17 APRIL 2015

RED NUM = 12
EBB
17 APRIL 2015

GREEN CAN # 13
EBB
22 APRIL 2015

WRECK

WRECK

MATCH TO SHEET 2

MATCH TO SHEET 4

SHEET 1
SHEET 2
SHEET 4
SHEET 5
SHEET 6
SHEET 8

rocks/ pilings

N 231,500
N 236,000
E 1,028,500
E 1,027,000

CORPS OF ENGINEERS
U. S. ARMY

U. S. ARMY

CORPS OF ENGINEERS

FILE NO: 65
REGISTRY NOs: 4324

SHEET 4 OF 8

VH-104

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

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

OPERATIONS DIVISION
SURVEY SECTION
GRAN-OP-S

APPROVED: M. APPELO
CHIEF, SURVEY SECTION

APPROVED: M. FORTE
CHIEF, REAL PROPERTY BRANCH

APPROVED: D. CLARKE
CHIEF, OPERATIONS DIVISION

APPROVED: J. MIRAZ
CHIEF, CHIEF OF SURVEY

Date: 5 JUNE 2015

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

| | | | |
|---|---|---|---|
| | | JHS | |
| BPH | BPH | | |
| BPH | PR | PR | |
| MP | | | |

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

DATES OF SURVEY:
17, 21-24 APRIL 2015

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN ER 1110-2-1003.
-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).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A USING VARIAN VERS. 7.2).
-MEAN LOWER LOW WATER IS 4.0 FEET BELOW NAVD88 AS DETERMINED -CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION -CALCULATION PURPOSES.
-THIS SURVEY WAS PERFORMED USING REAL KINEMATIC GPS POSITIONING.
-ALL UNDERWATER HAZARDS SHOWN ON THIS MAP WERE DETERMINED BY MEANS OF SIDESCAN SURVEY.
-THIS MAP IS CERD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

NSRS BENCHMARK

| | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

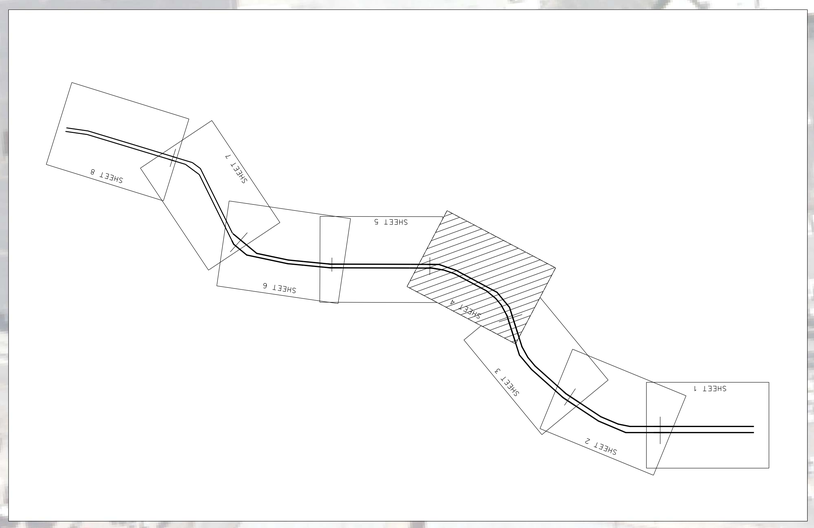
LOCAL CONTROL DATA

| | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

CLICK ON ICON
EDGE TO OPEN
METADATA

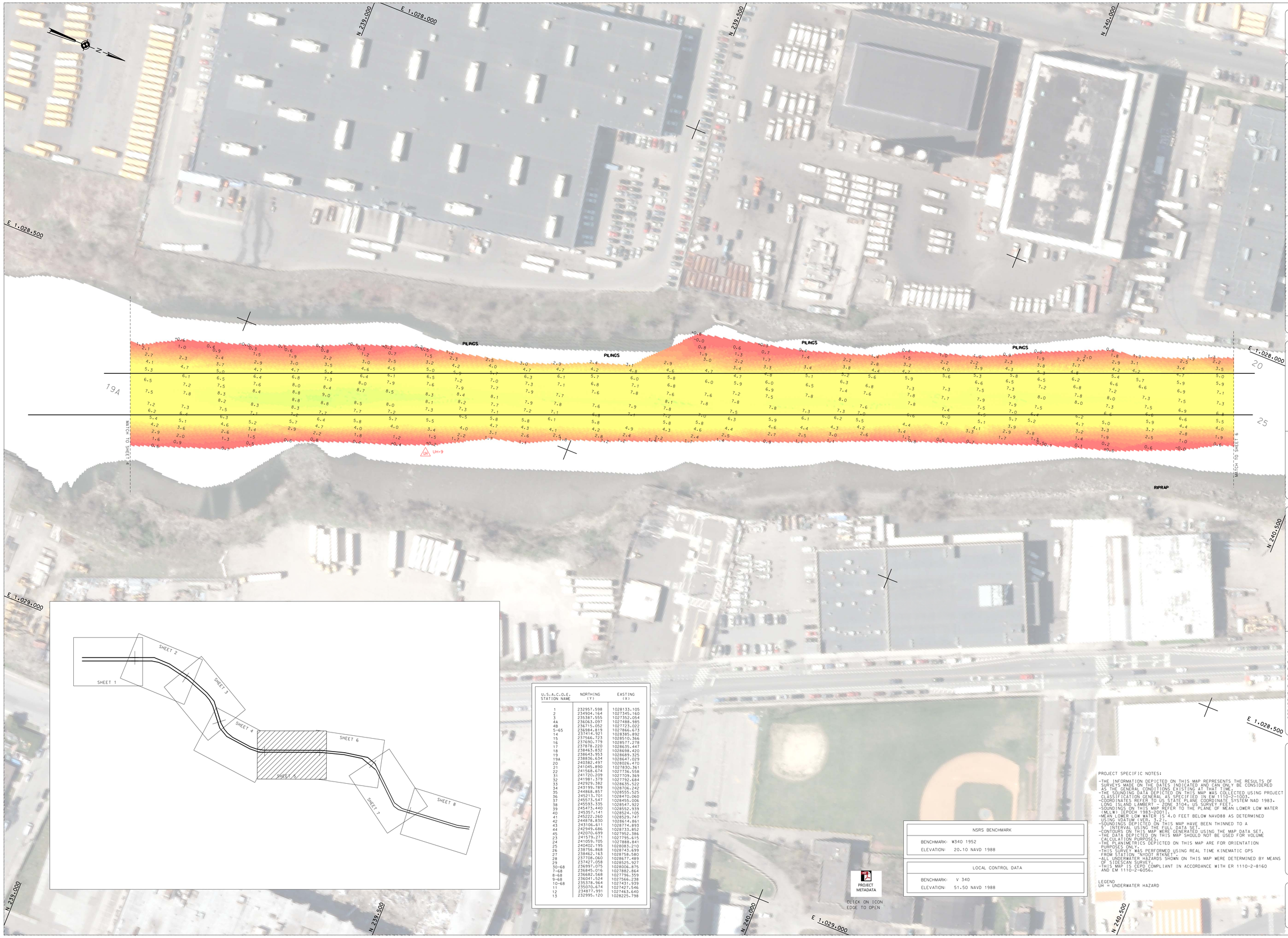
PROJECT

| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027745.160 |
| 1 | 235381.555 | 1027752.054 |
| 40 | 236179.052 | 1027723.022 |
| 44 | 236061.097 | 1027488.985 |
| 5-45 | 235984.819 | 1027866.671 |
| 14 | 237141.921 | 1028385.892 |
| 15 | 237156.723 | 1028510.366 |
| 16 | 237160.779 | 1028571.219 |
| 17 | 237816.220 | 1028635.447 |
| 18 | 238643.853 | 1028698.420 |
| 19 | 238643.953 | 1028689.325 |
| 19A | 238856.654 | 1028647.029 |
| 20 | 240582.497 | 1028604.470 |
| 21 | 241048.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027792.684 |
| 33 | 242929.382 | 1026635.522 |
| 34 | 242868.857 | 1028655.525 |
| 14 | 242199.789 | 1028706.242 |
| 36 | 243219.701 | 1028670.060 |
| 37 | 245513.047 | 1028654.006 |
| 38 | 245591.335 | 1028547.922 |
| 39 | 245611.440 | 1028524.999 |
| 40 | 245351.141 | 1028524.105 |
| 41 | 245222.240 | 1028529.747 |
| 43 | 243106.471 | 1028774.893 |
| 44 | 242945.686 | 1028735.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241519.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028089.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 237108.060 | 1028617.489 |
| 29 | 237147.058 | 1028625.927 |
| 10-68 | 236991.075 | 1028606.875 |
| 7-68 | 236845.016 | 1027982.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027966.238 |
| 11 | 235010.674 | 1027427.544 |
| 12 | 234817.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |



CORPS OF ENGINEERS

U. S. ARMY







| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027345.160 |
| 3 | 235387.555 | 1027352.054 |
| 4A | 236063.097 | 1027488.985 |
| 4B | 236715.052 | 1027723.022 |
| 5-65 | 236984.819 | 1027866.673 |
| 14 | 237414.921 | 1028385.892 |
| 15 | 237566.723 | 1028510.366 |
| 16 | 237690.779 | 1028577.278 |
| 17 | 237878.220 | 1028635.447 |
| 18 | 238463.832 | 1028698.420 |
| 19 | 238643.953 | 1028689.525 |
| 19A | 238836.634 | 1028647.029 |
| 20 | 240382.497 | 1028026.470 |
| 21 | 241045.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027792.684 |
| 33 | 242929.382 | 1028635.522 |
| 34 | 243199.789 | 1028706.242 |
| 35 | 244868.857 | 1028555.525 |
| 36 | 245213.701 | 1028470.060 |
| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.335 | 1028547.922 |
| 39 | 245473.440 | 1028552.939 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244876.830 | 1028614.861 |
| 43 | 243106.611 | 1028774.893 |
| 44 | 242949.686 | 1028733.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028083.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 238462.163 | 1028758.580 |
| 28 | 237708.060 | 1028677.489 |
| 29 | 237427.058 | 1028525.927 |
| 30-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027882.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.939 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
-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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM VER. 3.21.
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' INTERVAL USING THE FULL DATA SET.
-CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
-ALL UNDERWATER HAZARDS SHOWN ON THIS MAP WERE DETERMINED BY MEANS OF SIDESCAN SURVEY.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| JHS | BPH | PR |
| JHS | BPH | PR |
| | BPH | MP |

DATES OF SURVEY:
17 - 21-24 APRIL 2015

FILE NO.: 65
REQUEST NO.: 4324043

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
VAR.

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

OPERATIONS DIVISION
SURVEY SECTION
CHAN-OPS

APPROVED: M. APPELO — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — CHIEF SURVEILLANCE
APPROVED: J. MIRAZ — CHIEF, FIELD OPERATIONS
DATE: 5 JUNE 2015

WESTCHESTER CREEK
NEW YORK

CONDITION SURVEY

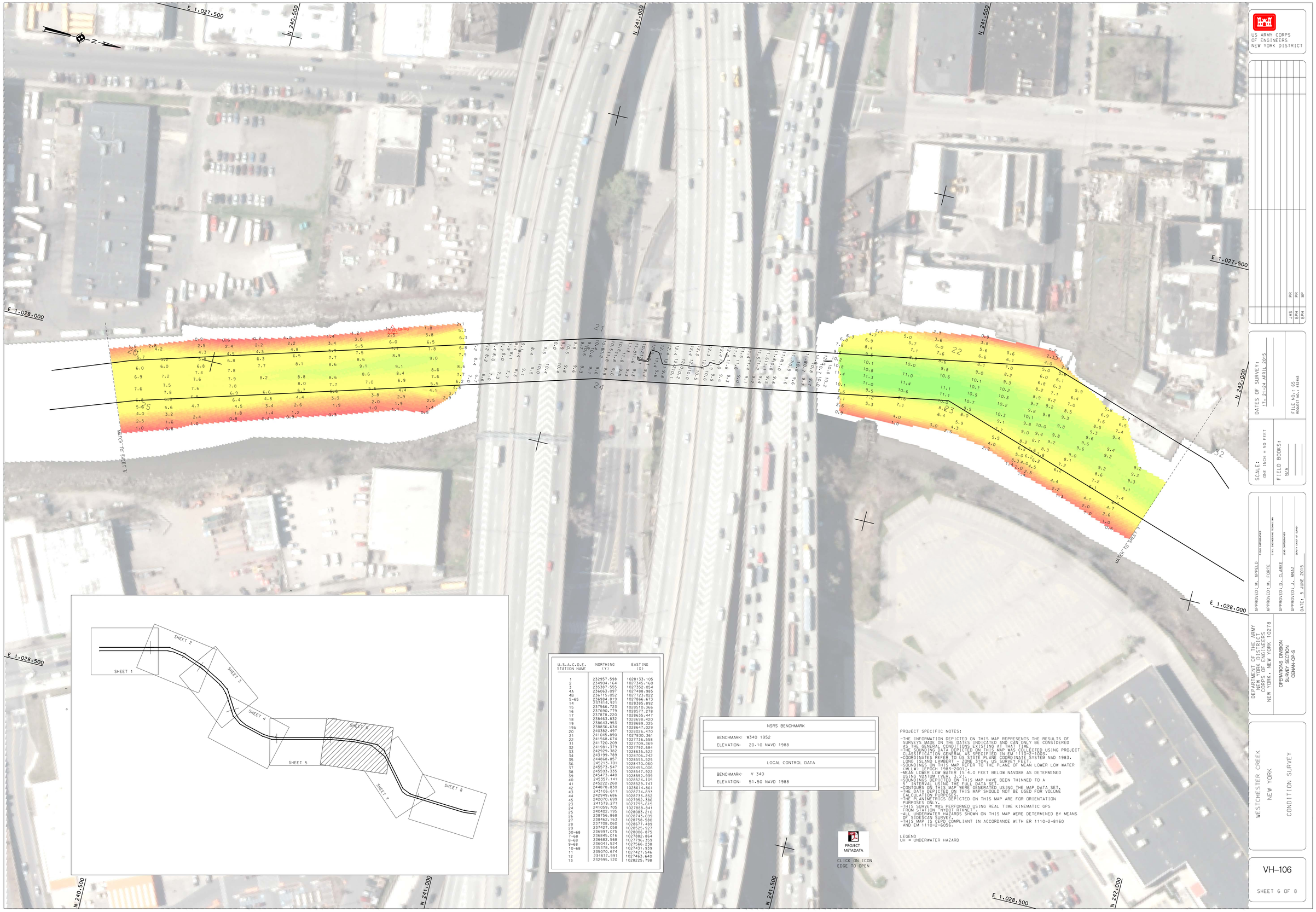
VH-105

SHEET 5 OF 8

FILE NO: 65
REG. NO: 4324

CORPS OF ENGINEERS

U. S. ARMY







| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027345.160 |
| 3 | 235387.555 | 1027352.054 |
| 4A | 236063.097 | 1027488.985 |
| 4B | 236715.052 | 1027723.022 |
| 5-65 | 236984.819 | 1027866.673 |
| 14 | 237414.921 | 1028385.892 |
| 15 | 237666.723 | 1028510.366 |
| 16 | 237690.719 | 1028577.278 |
| 17 | 237878.220 | 1028635.447 |
| 18 | 238463.832 | 1028698.420 |
| 19 | 238643.953 | 1028689.325 |
| 19A | 238836.634 | 1028647.029 |
| 20 | 240382.497 | 1028026.470 |
| 21 | 241045.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027792.684 |
| 33 | 242929.382 | 1028635.522 |
| 34 | 243199.789 | 1028706.242 |
| 35 | 244868.857 | 1028555.525 |
| 36 | 245213.701 | 1028470.060 |
| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.335 | 1028547.922 |
| 39 | 245473.440 | 1028552.939 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244878.830 | 1028614.861 |
| 43 | 243106.611 | 1028774.893 |
| 44 | 242949.686 | 1028733.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028083.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 238462.163 | 1028758.580 |
| 28 | 237708.060 | 1028677.489 |
| 29 | 237427.058 | 1028525.927 |
| 30-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027882.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.959 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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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-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) (EPOCH 1983-2001).
-MEAN LOWER LOW WATER IS 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
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-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

| | | |
|---|---|---|
| JHS | PR | |
| BPH | PR | |
| BPH | MP | |

DATES OF SURVEY: 17 & 21-24 APRIL 2015

FILE NO.: 65
REGNEST NO.: 4324N3

SCALE: ONE INCH = 50 FEET

FIELD BOOKS: N/A

APPROVED: M. APPELO — FIELD SURVEYANCE
APPROVED: M. FORTE — CIVIL ENGINEERING RECREATION
APPROVED: D. CLARKE — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 5 JUNE 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CDNAN-OP-S

# WESTCHESTER CREEK
# NEW YORK
# CONDITION SURVEY

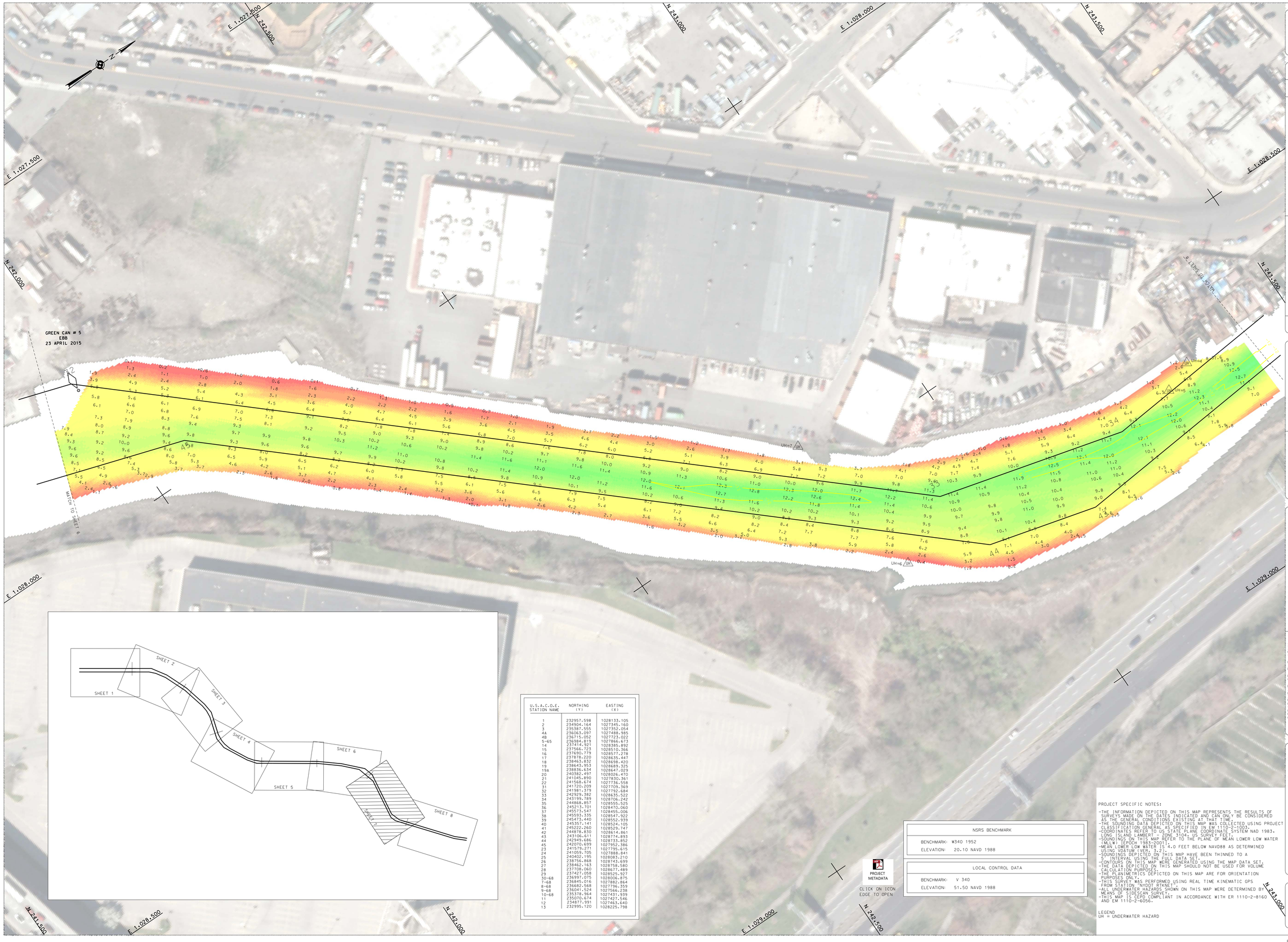
VH-106

SHEET 6 OF 8

FILE NO: 65
REG. NO: 4324

CORPS OF ENGINEERS

U. S. ARMY







| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
|---|---|---|
| 1 | 232957.598 | 1028133.105 |
| 2 | 234904.164 | 1027345.160 |
| 3 | 235387.555 | 1027352.054 |
| 4A | 236063.097 | 1027488.985 |
| 4B | 236715.052 | 1027723.022 |
| 5-65 | 236984.819 | 1027866.673 |
| 14 | 237414.921 | 1028385.892 |
| 15 | 237566.723 | 1028510.366 |
| 16 | 237690.779 | 1028577.278 |
| 17 | 237878.220 | 1028635.447 |
| 18 | 238463.832 | 1028698.420 |
| 19 | 238643.953 | 1028689.325 |
| 19A | 238836.634 | 1028647.029 |
| 20 | 240382.497 | 1028026.470 |
| 21 | 241045.890 | 1027830.361 |
| 22 | 241568.674 | 1027736.558 |
| 31 | 241720.209 | 1027709.369 |
| 32 | 241981.379 | 1027732.684 |
| 33 | 242929.382 | 1028635.522 |
| 34 | 243199.789 | 1028706.242 |
| 35 | 244868.857 | 1028515.525 |
| 36 | 245213.701 | 1028470.060 |
| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.335 | 1028547.922 |
| 39 | 245473.460 | 1028552.939 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244878.830 | 1028614.861 |
| 43 | 243106.611 | 1028774.893 |
| 44 | 242949.686 | 1028733.852 |
| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
| 25 | 240402.195 | 1028083.210 |
| 26 | 238756.868 | 1028743.699 |
| 27 | 238462.163 | 1028758.580 |
| 28 | 237708.060 | 1028677.489 |
| 29 | 237427.058 | 1028525.927 |
| 30-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027852.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.939 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | W340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

PROJECT SPECIFIC NOTES:

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LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| JHS | PR | |
| BPH | PR | |
| BPH | MP | |

DATES OF SURVEY:
17 - 21-24 APRIL 2015

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

FILE NO.: 65
REQUEST NO.: 4324#3

APPROVED: M. APPELD — FIELD SURVEILLANCE
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 5 JUNE 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CEIWA-OPS

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

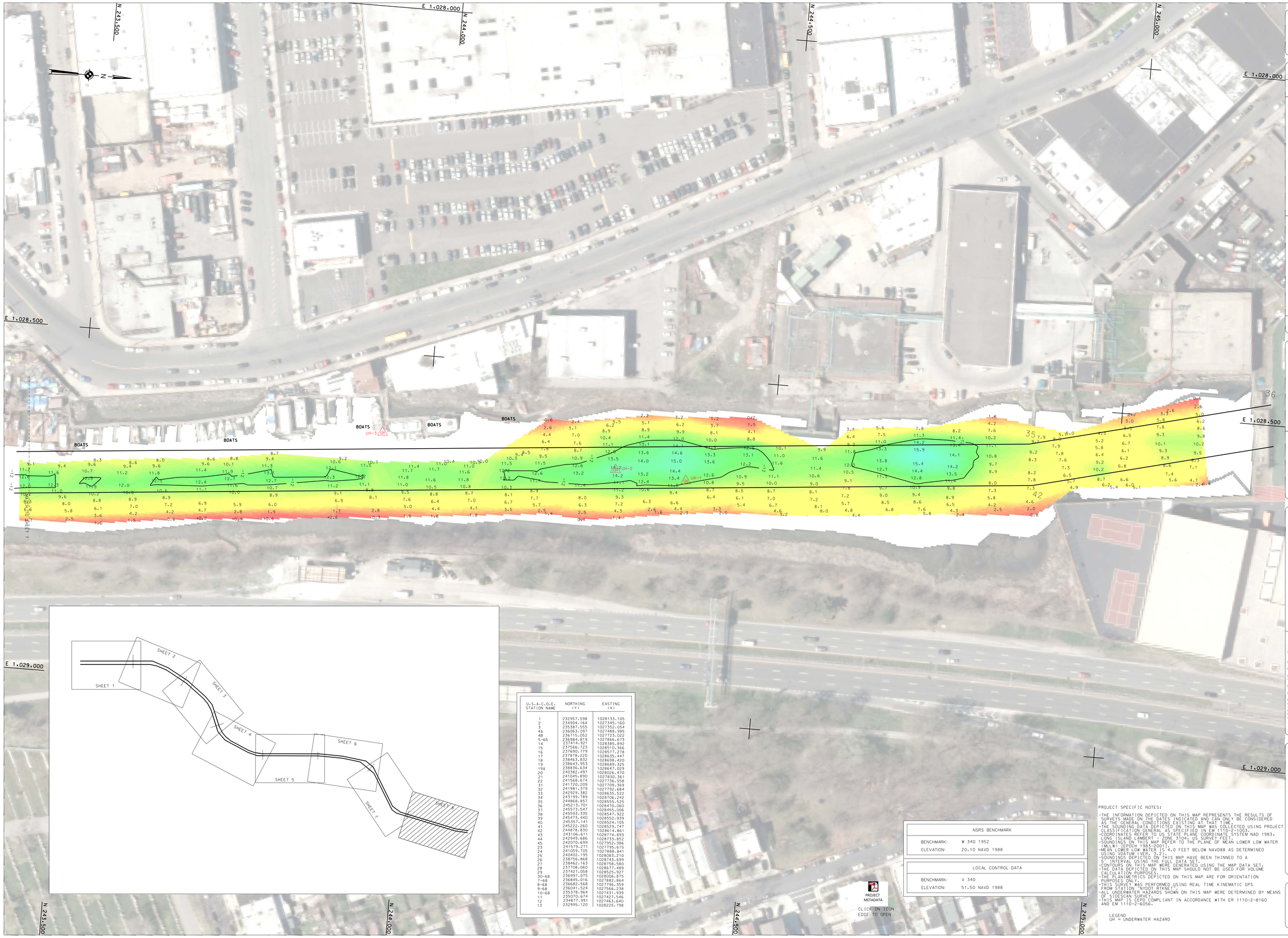
VH-107

SHEET 7 OF 8

FILE NO: 65
REQ. NO: 4324

CORPS OF ENGINEERS

U. S. ARMY




| U.S.A.C.O.E. STATION NAME | NORTHING (Y) | EASTING (X) |
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| 18 | 238463.832 | 1028698.420 |
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| 37 | 245573.547 | 1028455.006 |
| 38 | 245593.335 | 1028547.922 |
| 39 | 245473.440 | 1028552.939 |
| 40 | 245357.141 | 1028524.105 |
| 41 | 245222.260 | 1028529.747 |
| 42 | 244878.830 | 1028614.861 |
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| 45 | 242070.699 | 1027952.386 |
| 23 | 241579.271 | 1027795.615 |
| 24 | 241059.705 | 1027888.841 |
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| 27 | 238462.163 | 1028758.580 |
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| 29 | 237427.058 | 1028525.927 |
| 30-68 | 236997.075 | 1028006.875 |
| 7-68 | 236845.016 | 1027882.864 |
| 8-68 | 236682.568 | 1027796.359 |
| 9-68 | 236041.524 | 1027566.238 |
| 10-68 | 235378.964 | 1027431.939 |
| 11 | 235070.674 | 1027427.546 |
| 12 | 234877.991 | 1027463.640 |
| 13 | 232995.120 | 1028225.798 |

| NSRS BENCHMARK | |
|---|---|
| BENCHMARK: | M 340 1952 |
| ELEVATION: | 20.10 NAVD 1988 |

| LOCAL CONTROL DATA | |
|---|---|
| BENCHMARK: | V 340 |
| ELEVATION: | 51.50 NAVD 1988 |

PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

PROJECT SPECIFIC NOTES:

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LEGEND
UH = UNDERWATER HAZARD

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

| | | |
|---|---|---|
| JHS | BPH | PR |
| BPH | BPH | PR |
| | | MP |

DATES OF SURVEY:
17 - 21 & 24 APRIL 2015

FILE NO.: 65
REQUEST NO.: 4324A3

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
N/A

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

| | |
|---|---|
| APPROVED: | M. APPELD |
| | FIELD CARTOGRAPHER |
| APPROVED: | M. FORTE |
| | CHIEF, ENGINEERING TECHNICIAN |
| APPROVED: | D. CLARKE |
| | CHIEF CARTOGRAPHER |
| APPROVED: | J. MRAZ |
| | CHIEF, SURVEY OF SURVEY |
| DATE: | 5 JUNE 2015 |

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH–108

SHEET 8 OF 8

FILE NO: 65
REQ. NO: 4324