



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

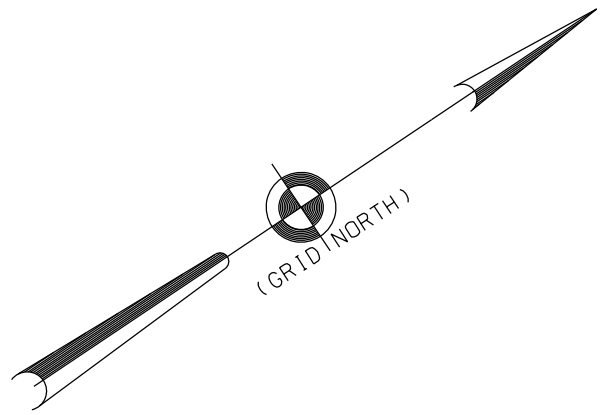
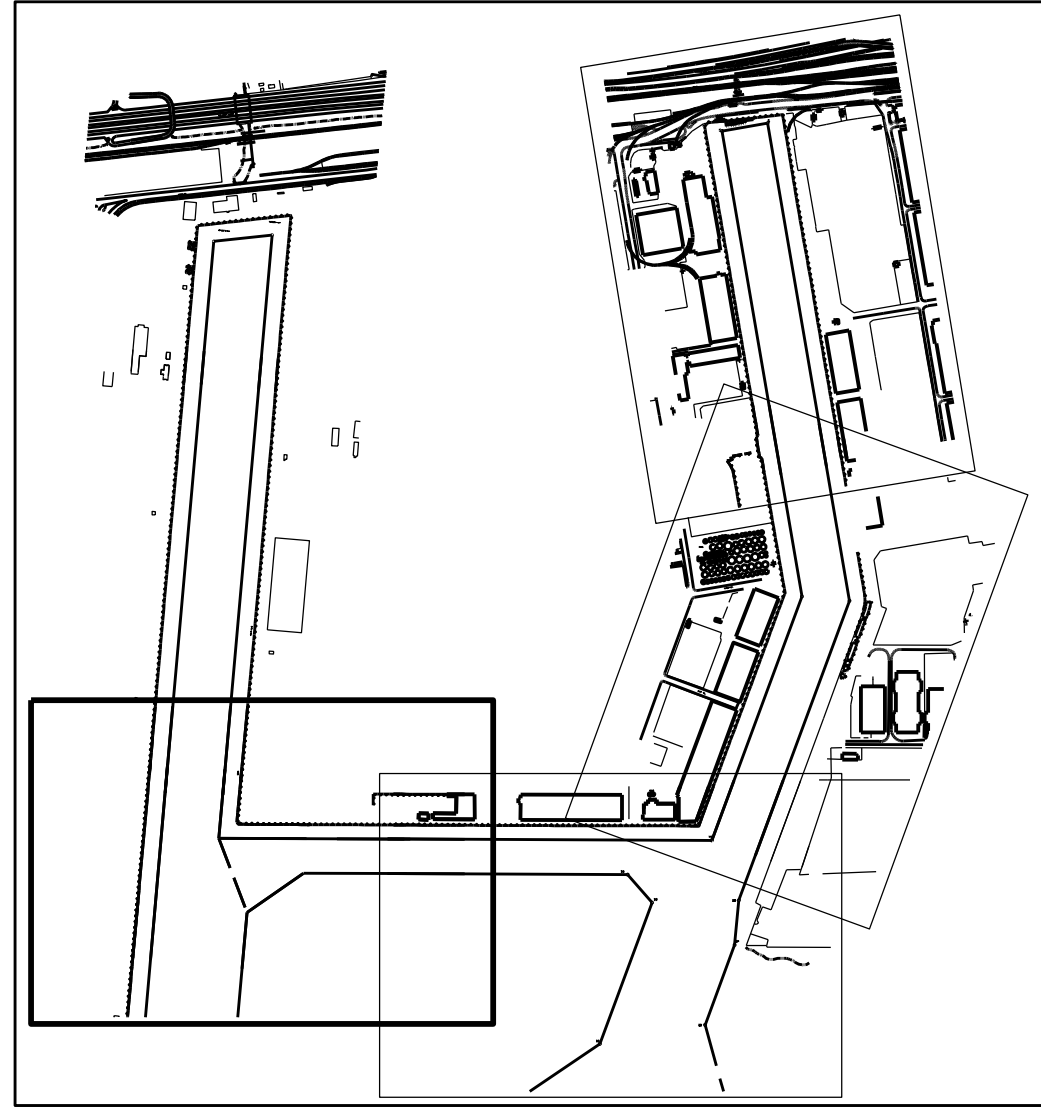


Table with 2 columns: DATE OF SURVEY (4-24-08, 9-16-21, OCT 2013), FIELD BOOKS (858), and other metadata.

Table with 2 columns: SCALE (ONE INCH = 100 FEET), DATES OF SURVEY (4-24-08, 9-16-21, OCT 2013), and FIELD BOOKS (858).

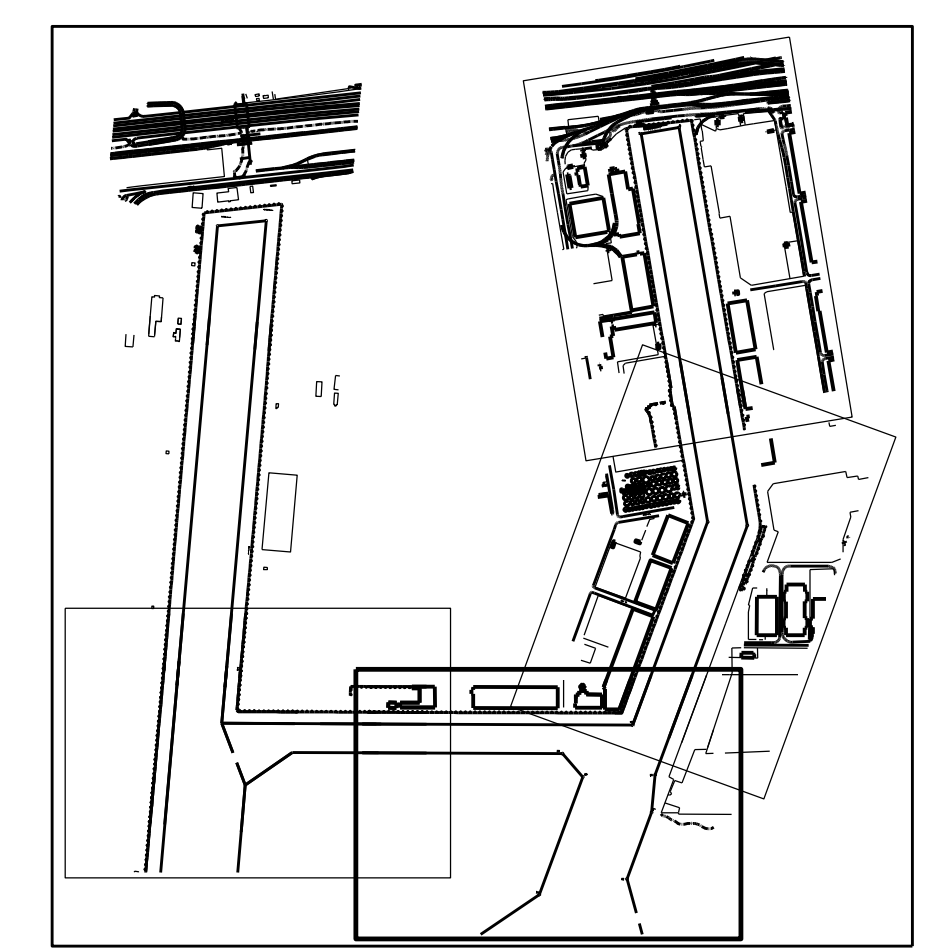
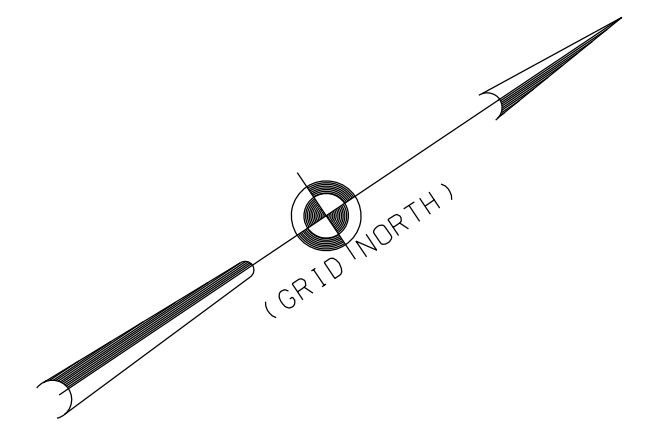
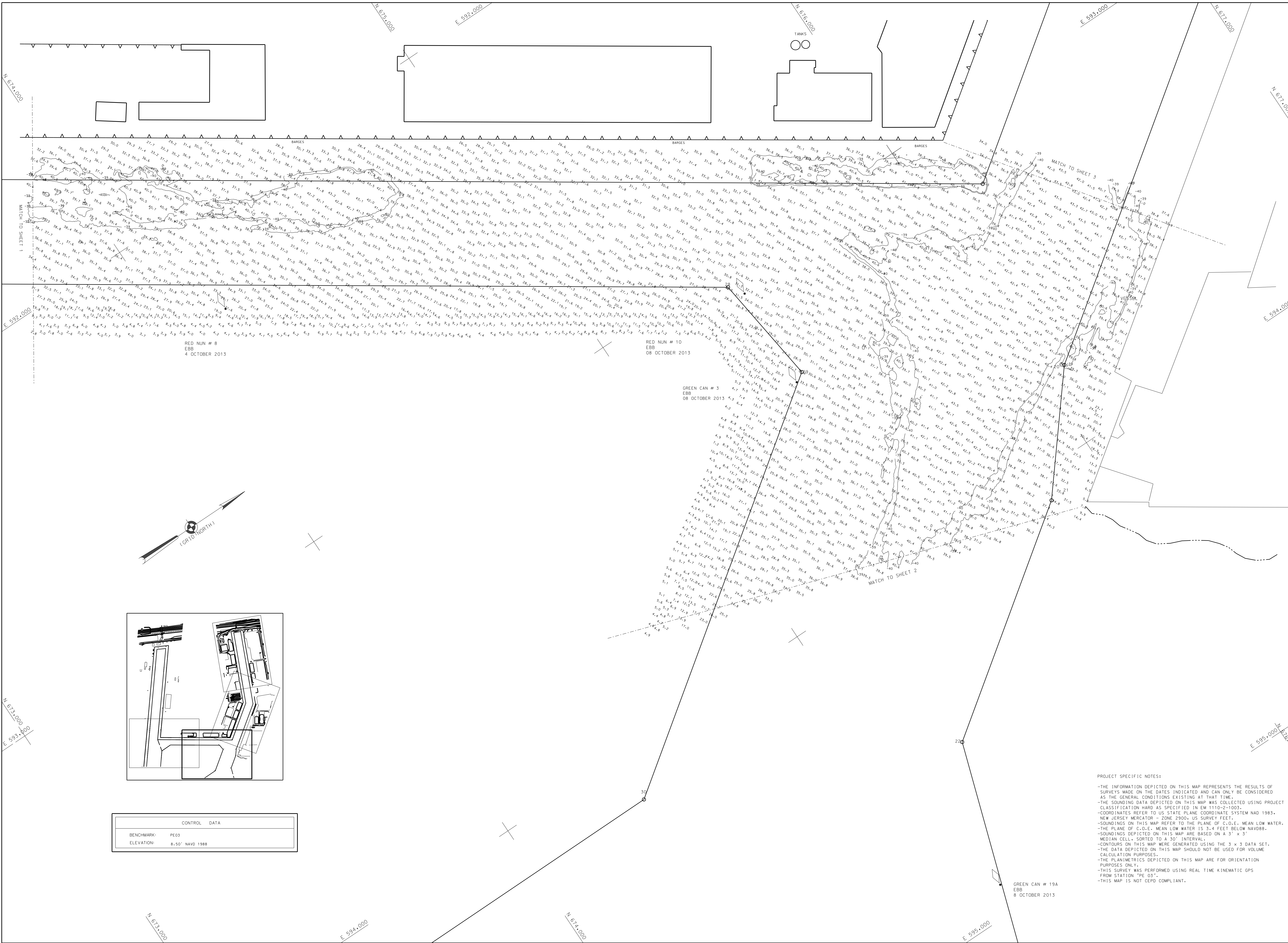
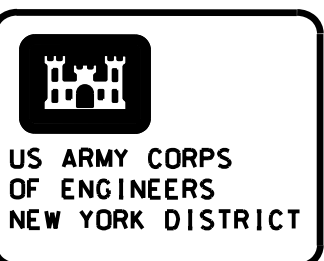
Table with 2 columns: APPROVED (D. SMITH/VA, APPEL), APPROVED (M. EDIE), and DATE (8 DECEMBER 2013).

Table with 2 columns: DEPARTMENT OF THE ARMY (NEW YORK DISTRICT), OPERATIONS DIVISION (NEW YORK DISTRICT), and DATE (8 DECEMBER 2013).

Table with 2 columns: NEWARK BAY, HACKENSACK & PASSAIC RIVERS, PORT NEWARK & PIERHEAD CHANNEL, and PLANS AND SPECIFICATIONS SURVEY.

CONTROL DATA table: BENCHMARK: PE03, ELEVATION: 8.50' 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.



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

RED NUM # 8
EBB
4 OCTOBER 2013

RED NUM # 10
EBB
08 OCTOBER 2013

GREEN CAN # 3
EBB
08 OCTOBER 2013

GREEN CAN # 19A
EBB
8 OCTOBER 2013

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 - THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
 - 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 C.D.E., MEAN LOW WATER.
 - THE PLANE OF C.D.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
 - 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.
 - THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
 - THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'PE 03'.
 - THIS MAP IS NOT CEPD COMPLIANT.

DATE OF SURVEY:	4-2-2013, 8-16-2013, 10-1-2013, 13-14 NOV 2013
SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	858
FILE NO.:	1 939
REQUEST NO.:	4056/4
DATE:	10/01/13

APPROVED:	D. SMITHMAN, ARPED, DISTRICT ENGINEER
APPROVED:	M. EDGIE, DISTRICT ENGINEER
APPROVED:	D. CLARKE, DISTRICT ENGINEER
APPROVED:	J. MSAZ, DISTRICT ENGINEER
DATE:	04 DECEMBER 2013

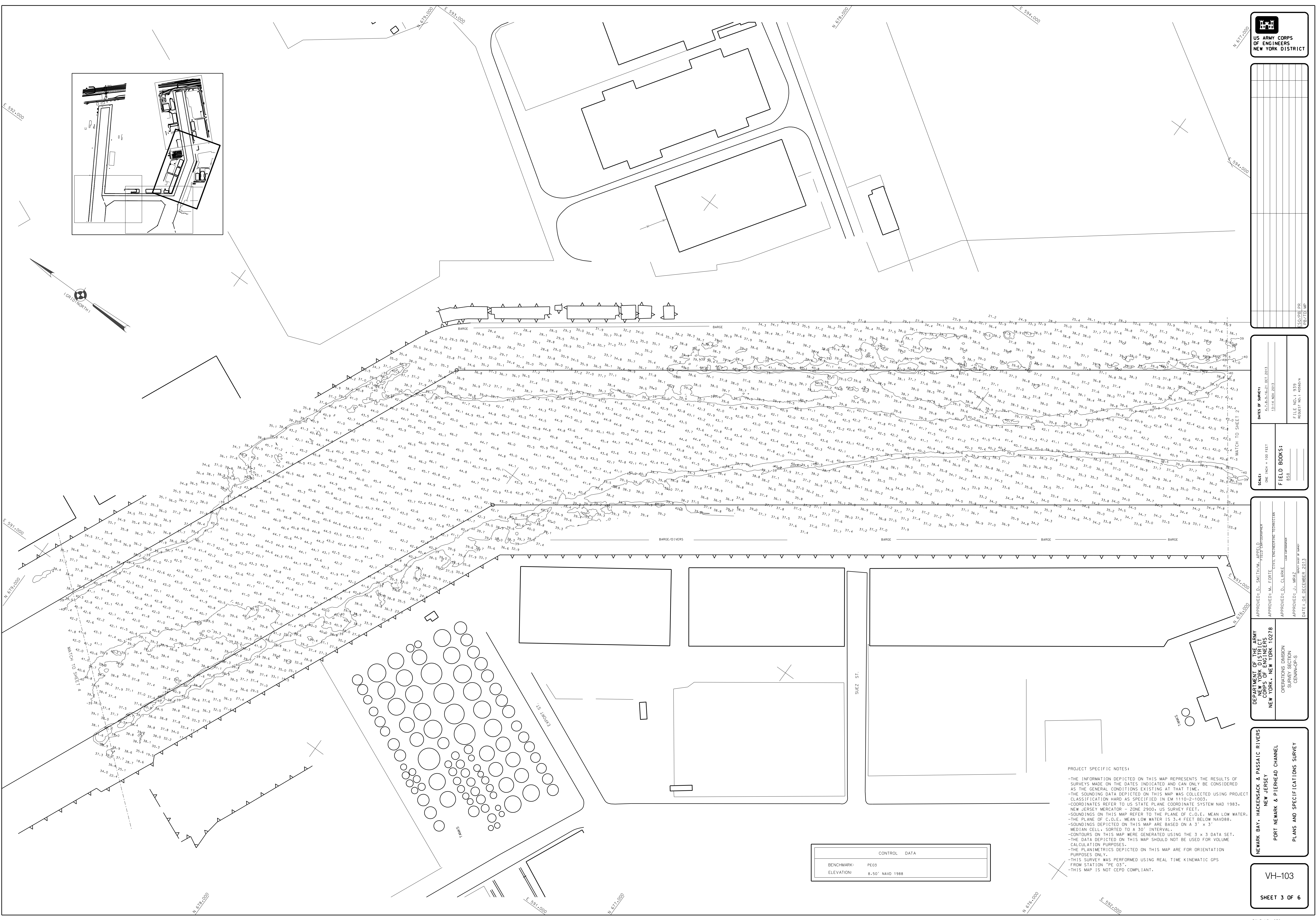
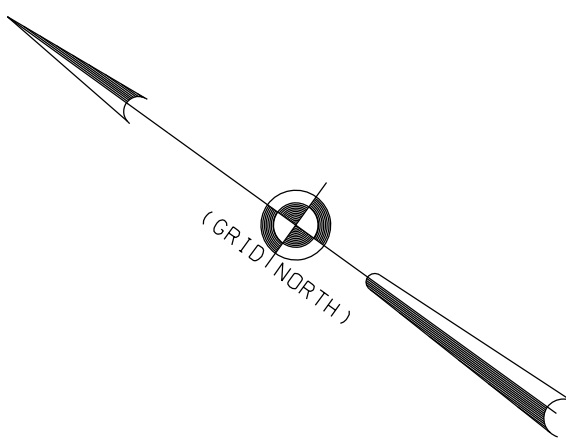
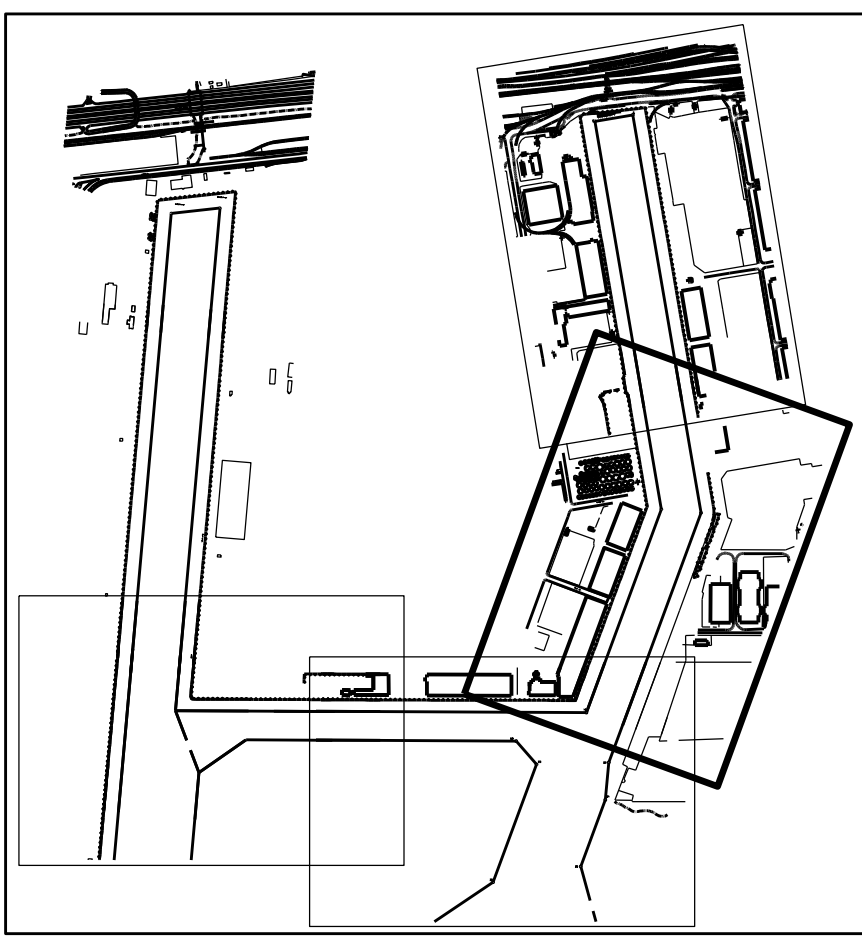
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
NEW YORK 10278

OPERATIONS DIVISION
SOUNDING SECTION
CENRAN-OPS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
PLANS AND SPECIFICATIONS SURVEY



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

PROJECT SPECIFIC NOTES:

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- 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 C.O.D.E., MEAN LOW WATER.
- THE PLANE OF C.O.D.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD83.
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- COORDINATES ON THIS MAP WERE GENERATED USING THE 3 X 3 DATA SET.
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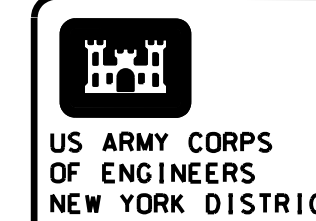
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DATE:	12/14/2013
TIME:	10:00 AM
BY:	MSZ
FILE NO.:	939
PROJECT NO.:	10569/4
DATE:	12/14/2013
TIME:	10:00 AM
BY:	MSZ

FIELD BOOKS	
BOOK:	858
DATE:	12/14/2013
TIME:	10:00 AM
BY:	MSZ

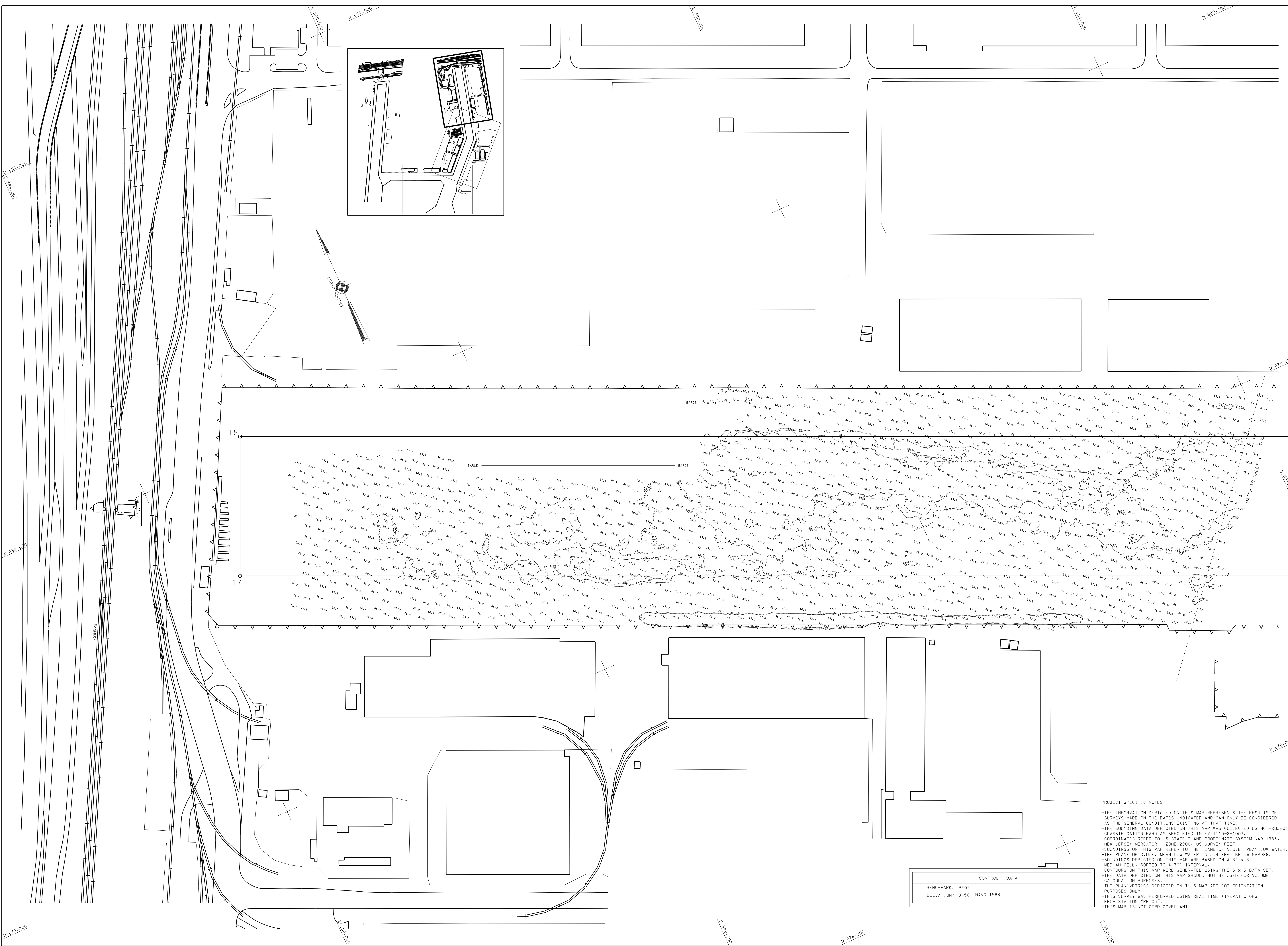
DEPARTMENT OF THE ARMY	
APPROVED:	D. SMITH, ARPEL (TITLED SUPERVISOR)
APPROVED:	M. EDGIE (TITLED ENGINEERING TECHNICIAN)
APPROVED:	D. CLERKE (TITLED ENGINEER)
APPROVED:	J. MSZ (TITLED ENGINEER)
DATE:	12/14/2013

OPERATIONS DIVISION	
DATE:	12/14/2013
TIME:	10:00 AM
BY:	MSZ

NEWARK BAY, HACKENSACK & PASSAIC RIVERS	
DATE:	12/14/2013
TIME:	10:00 AM
BY:	MSZ



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

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-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 C.D.E.L. MEAN LOW WATER.
-THE PLANE OF C.D.E.L. MEAN LOW WATER IS 3.4 FEET BELOW NAVD83.
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30" INTERVAL.
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-THIS MAP IS NOT CECP COMPLIANT.

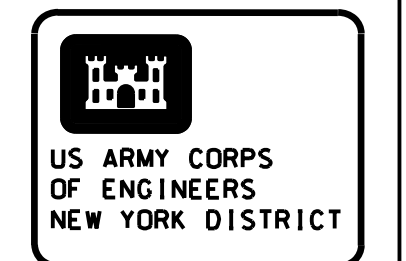
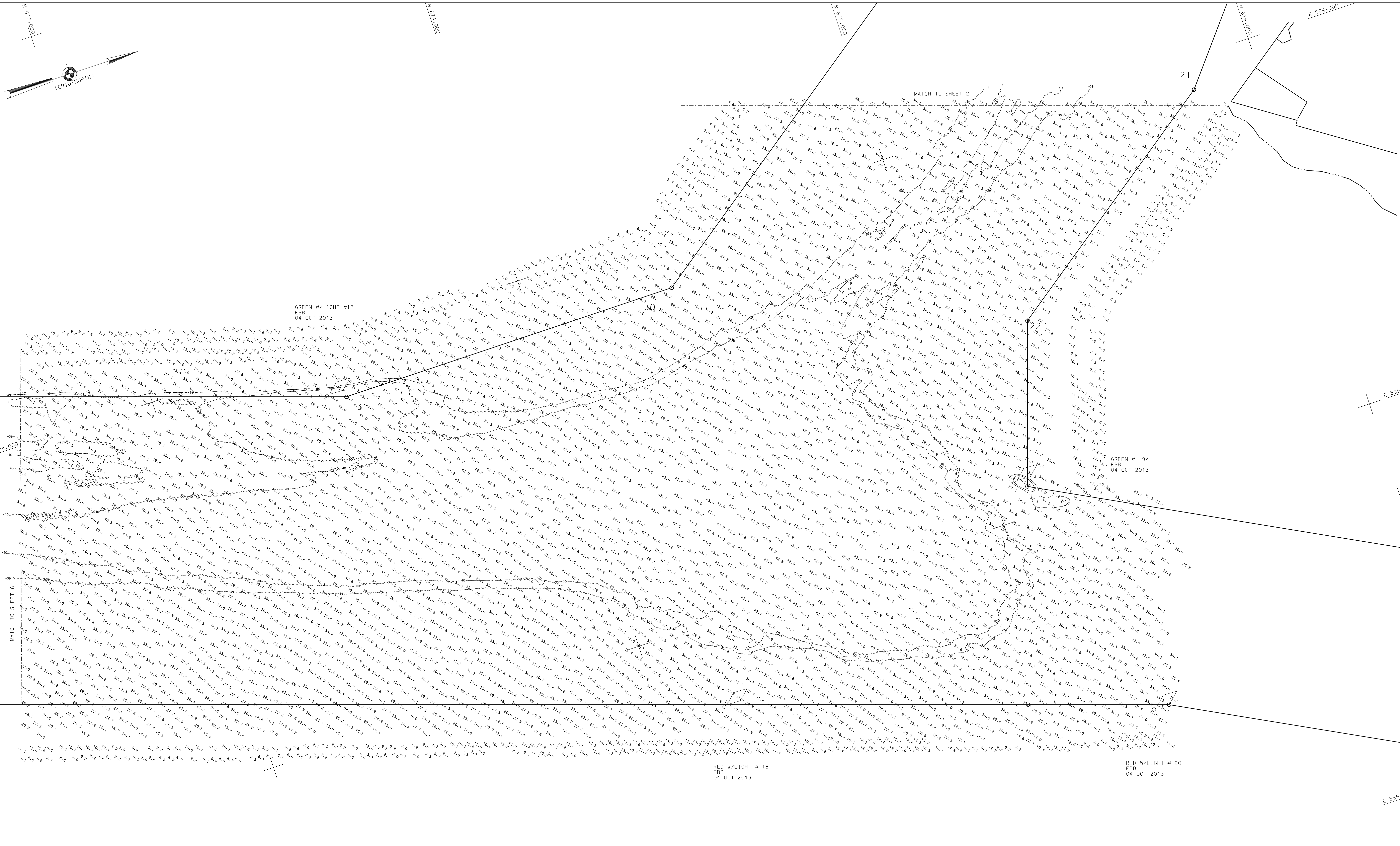
DATE OF SURVEY: 4-2-03, 8-3-03, 9-21-03, OCT. 2013 13-14 NOV 2013	FILE NO.: 939 REQUEST NO.: 4056/D4
SCALE: ONE INCH = 100 FEET	FIELD BOOKS: 858

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
NEW YORK DISTRICT
OPERATIONS DIVISION
NEW YORK DISTRICT
NEW YORK

APPROVED: D. SMITHMAN, ARPEL
APPROVED: M. EDIE
APPROVED: G. CLERKE
APPROVED: J. MARZ
DATE: 04 DECEMBER 2013

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
PLANS AND SPECIFICATIONS SURVEY

VH-104
SHEET 4 OF 6



DATE OF SURVEY:	4-23-03, 4-24-03, 4-25-03, 4-26-03, 4-27-03, 4-28-03, 4-29-03, 4-30-03, 5-1-03, 5-2-03, 5-3-03, 5-4-03, 5-5-03, 5-6-03, 5-7-03, 5-8-03, 5-9-03, 5-10-03, 5-11-03, 5-12-03, 5-13-03, 5-14-03, 5-15-03, 5-16-03, 5-17-03, 5-18-03, 5-19-03, 5-20-03, 5-21-03, 5-22-03, 5-23-03, 5-24-03, 5-25-03, 5-26-03, 5-27-03, 5-28-03, 5-29-03, 5-30-03, 5-31-03, 6-1-03, 6-2-03, 6-3-03, 6-4-03, 6-5-03, 6-6-03, 6-7-03, 6-8-03, 6-9-03, 6-10-03, 6-11-03, 6-12-03, 6-13-03, 6-14-03, 6-15-03, 6-16-03, 6-17-03, 6-18-03, 6-19-03, 6-20-03, 6-21-03, 6-22-03, 6-23-03, 6-24-03, 6-25-03, 6-26-03, 6-27-03, 6-28-03, 6-29-03, 6-30-03, 7-1-03, 7-2-03, 7-3-03, 7-4-03, 7-5-03, 7-6-03, 7-7-03, 7-8-03, 7-9-03, 7-10-03, 7-11-03, 7-12-03, 7-13-03, 7-14-03, 7-15-03, 7-16-03, 7-17-03, 7-18-03, 7-19-03, 7-20-03, 7-21-03, 7-22-03, 7-23-03, 7-24-03, 7-25-03, 7-26-03, 7-27-03, 7-28-03, 7-29-03, 7-30-03, 7-31-03, 8-1-03, 8-2-03, 8-3-03, 8-4-03, 8-5-03, 8-6-03, 8-7-03, 8-8-03, 8-9-03, 8-10-03, 8-11-03, 8-12-03, 8-13-03, 8-14-03, 8-15-03, 8-16-03, 8-17-03, 8-18-03, 8-19-03, 8-20-03, 8-21-03, 8-22-03, 8-23-03, 8-24-03, 8-25-03, 8-26-03, 8-27-03, 8-28-03, 8-29-03, 8-30-03, 8-31-03, 9-1-03, 9-2-03, 9-3-03, 9-4-03, 9-5-03, 9-6-03, 9-7-03, 9-8-03, 9-9-03, 9-10-03, 9-11-03, 9-12-03, 9-13-03, 9-14-03, 9-15-03, 9-16-03, 9-17-03, 9-18-03, 9-19-03, 9-20-03, 9-21-03, 9-22-03, 9-23-03, 9-24-03, 9-25-03, 9-26-03, 9-27-03, 9-28-03, 9-29-03, 9-30-03, 10-1-03, 10-2-03, 10-3-03, 10-4-03, 10-5-03, 10-6-03, 10-7-03, 10-8-03, 10-9-03, 10-10-03, 10-11-03, 10-12-03, 10-13-03, 10-14-03, 10-15-03, 10-16-03, 10-17-03, 10-18-03, 10-19-03, 10-20-03, 10-21-03, 10-22-03, 10-23-03, 10-24-03, 10-25-03, 10-26-03, 10-27-03, 10-28-03, 10-29-03, 10-30-03, 10-31-03, 11-1-03, 11-2-03, 11-3-03, 11-4-03, 11-5-03, 11-6-03, 11-7-03, 11-8-03, 11-9-03, 11-10-03, 11-11-03, 11-12-03, 11-13-03, 11-14-03, 11-15-03, 11-16-03, 11-17-03, 11-18-03, 11-19-03, 11-20-03, 11-21-03, 11-22-03, 11-23-03, 11-24-03, 11-25-03, 11-26-03, 11-27-03, 11-28-03, 11-29-03, 11-30-03, 12-1-03, 12-2-03, 12-3-03, 12-4-03, 12-5-03, 12-6-03, 12-7-03, 12-8-03, 12-9-03, 12-10-03, 12-11-03, 12-12-03, 12-13-03, 12-14-03, 12-15-03, 12-16-03, 12-17-03, 12-18-03, 12-19-03, 12-20-03, 12-21-03, 12-22-03, 12-23-03, 12-24-03, 12-25-03, 12-26-03, 12-27-03, 12-28-03, 12-29-03, 12-30-03, 12-31-03, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013
SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	858
FILE NO.:	939
REQUEST NO.:	4050/4

APPROVED:	D. SMITHAL, ARPED
APPROVED:	M. EBBE, CIVIL ENGINEER
APPROVED:	D. CLARKE, CIVIL ENGINEER
APPROVED:	J. MARZ, CIVIL ENGINEER
DATE:	04 DECEMBER 2013

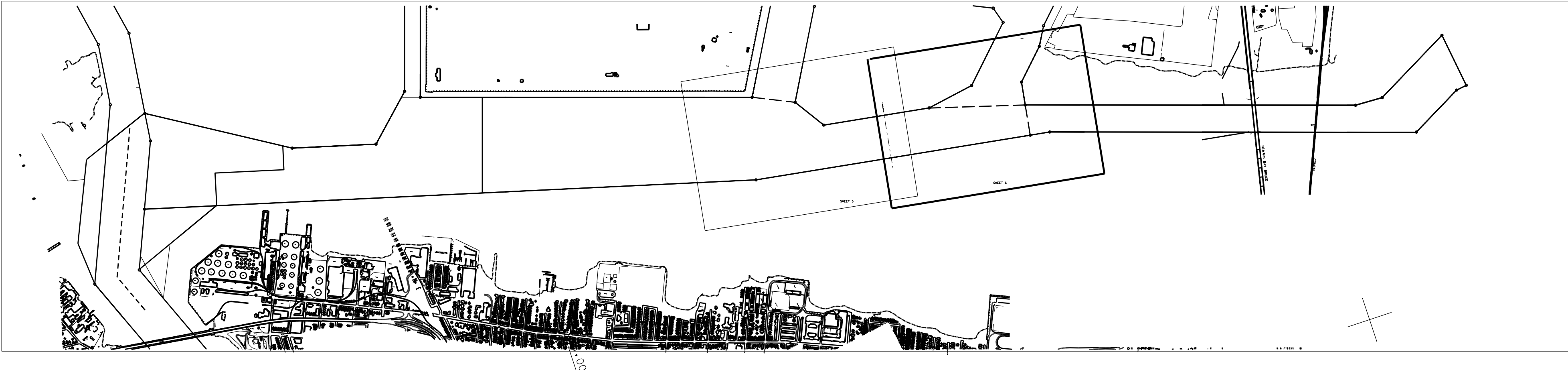
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS NEW YORK 10278	OPERATIONS DIVISION NEW YORK PORT NEWARK & PIERHEAD CHANNEL PLANS AND SPECIFICATIONS SURVEY
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VH-105
SHEET 5 OF 6

CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

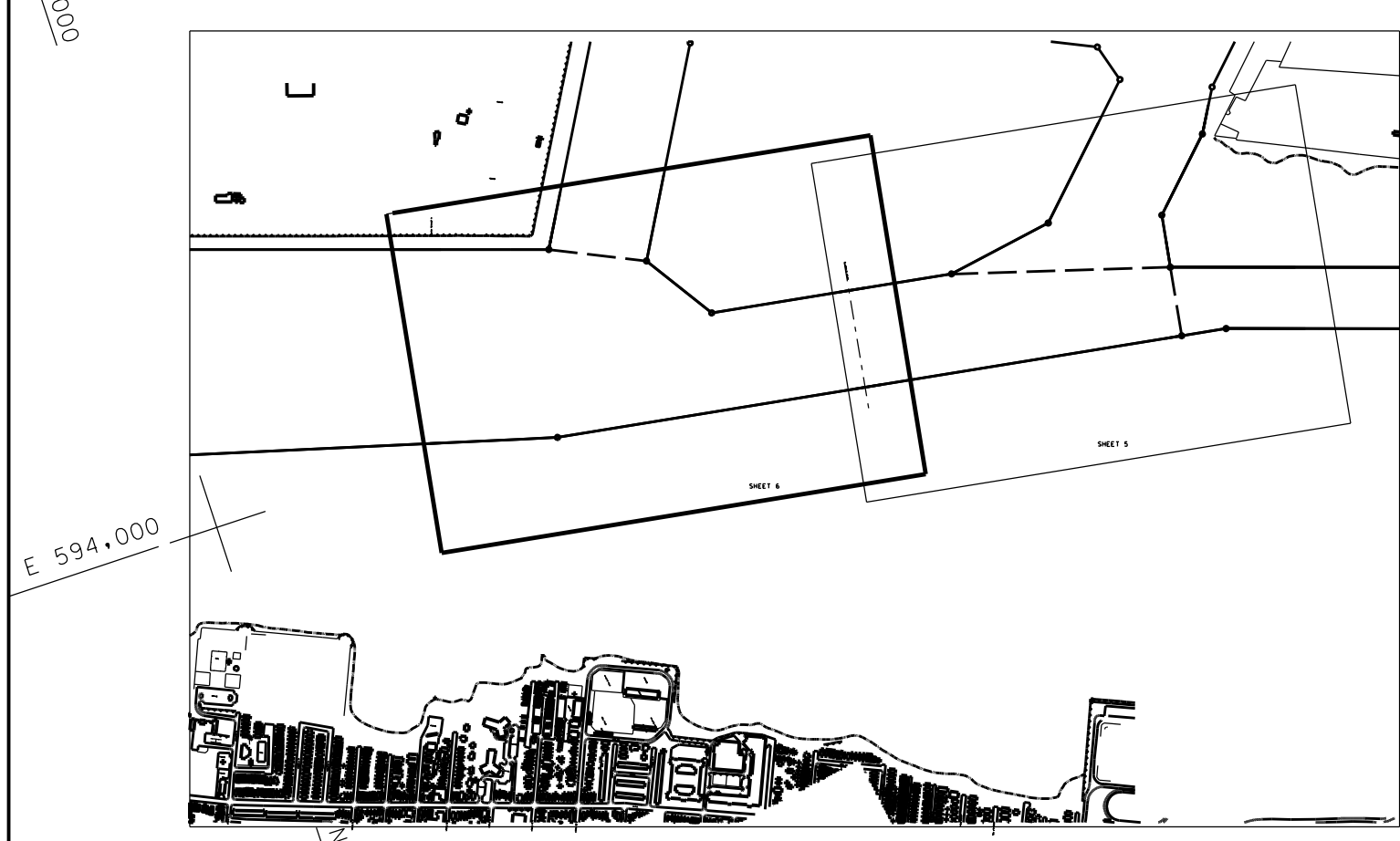
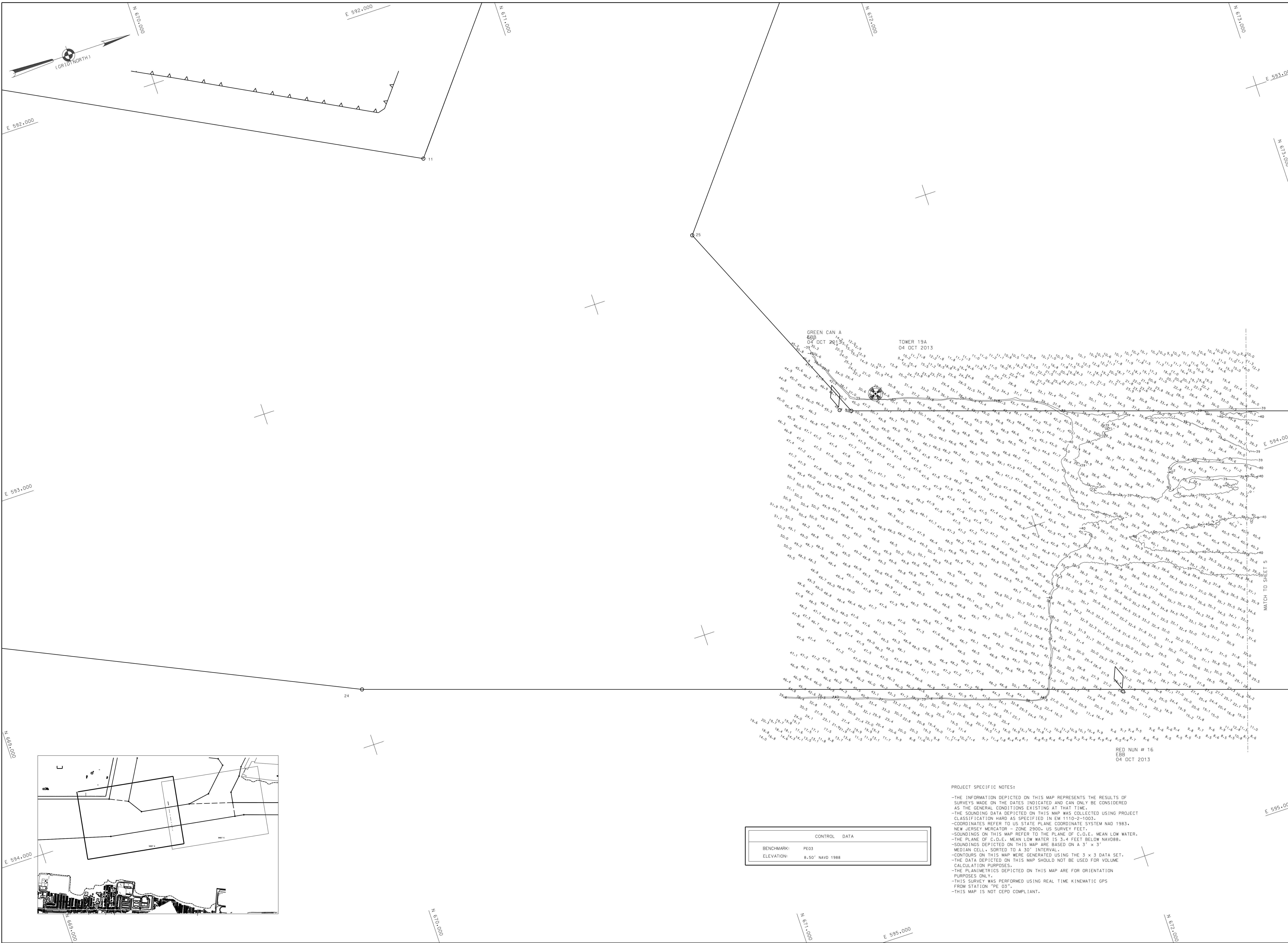
PROJECT SPECIFIC NOTES:

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- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF C.O.D.E. MEAN LOW WATER.
- THE PLANE OF C.O.D.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' INTERVAL.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.





US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

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DATE OF SURVEY:	4-2, 6, 9, 14, 21 OCT 2013 13-14 NOV 2013
FILE NO.:	939
REQUEST NO.:	4056/4
DATE:	04 OCT 2013

SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	858

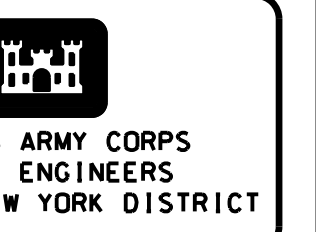
APPROVED:	D. SMITHMAN, ARPED
APPROVED:	M. EDDIE, CIVIL ENGINEER
APPROVED:	D. CLARKE, CIVIL ENGINEER
APPROVED:	J. MARZ, CIVIL ENGINEER
DATE:	04 DECEMBER 2013

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

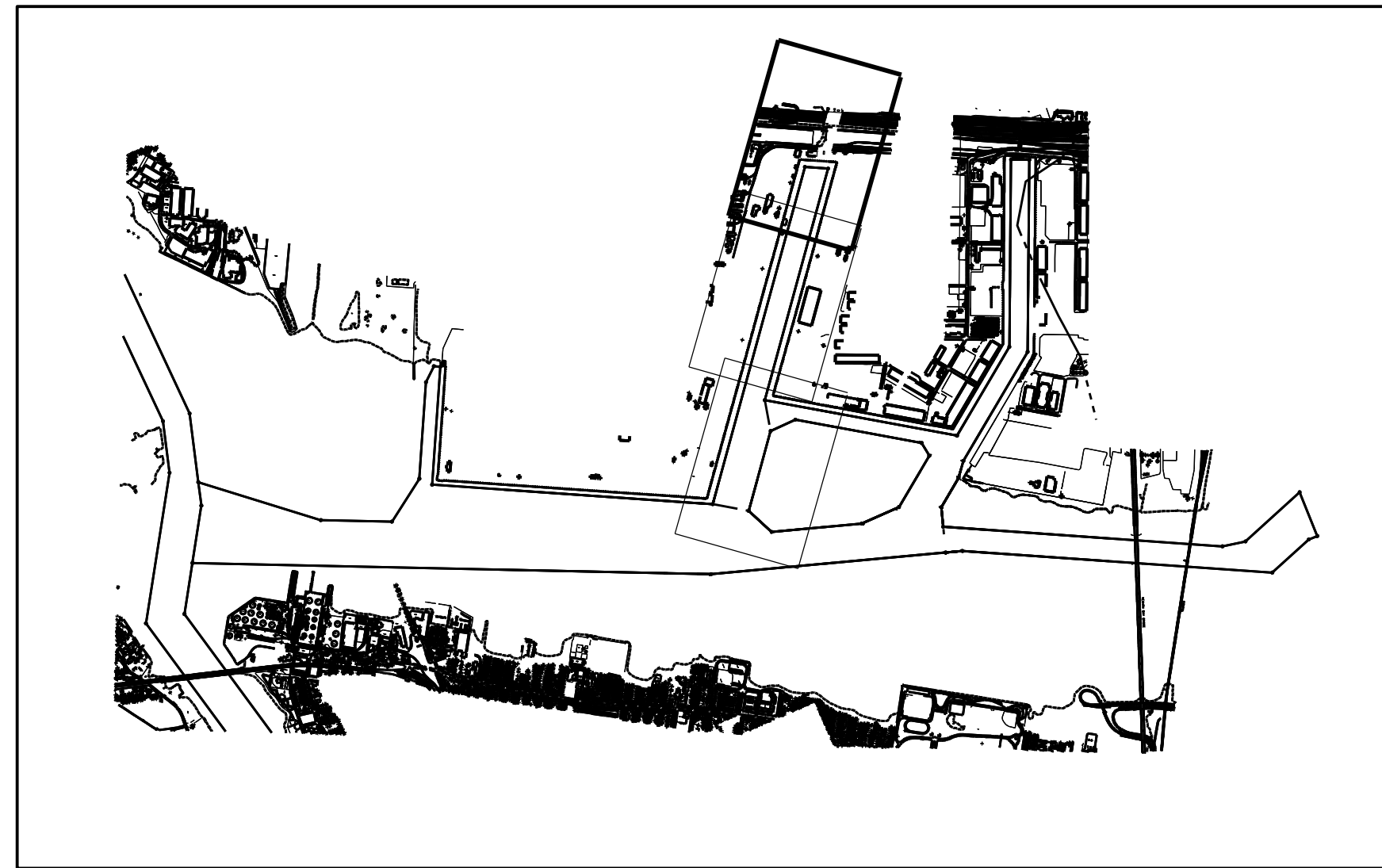
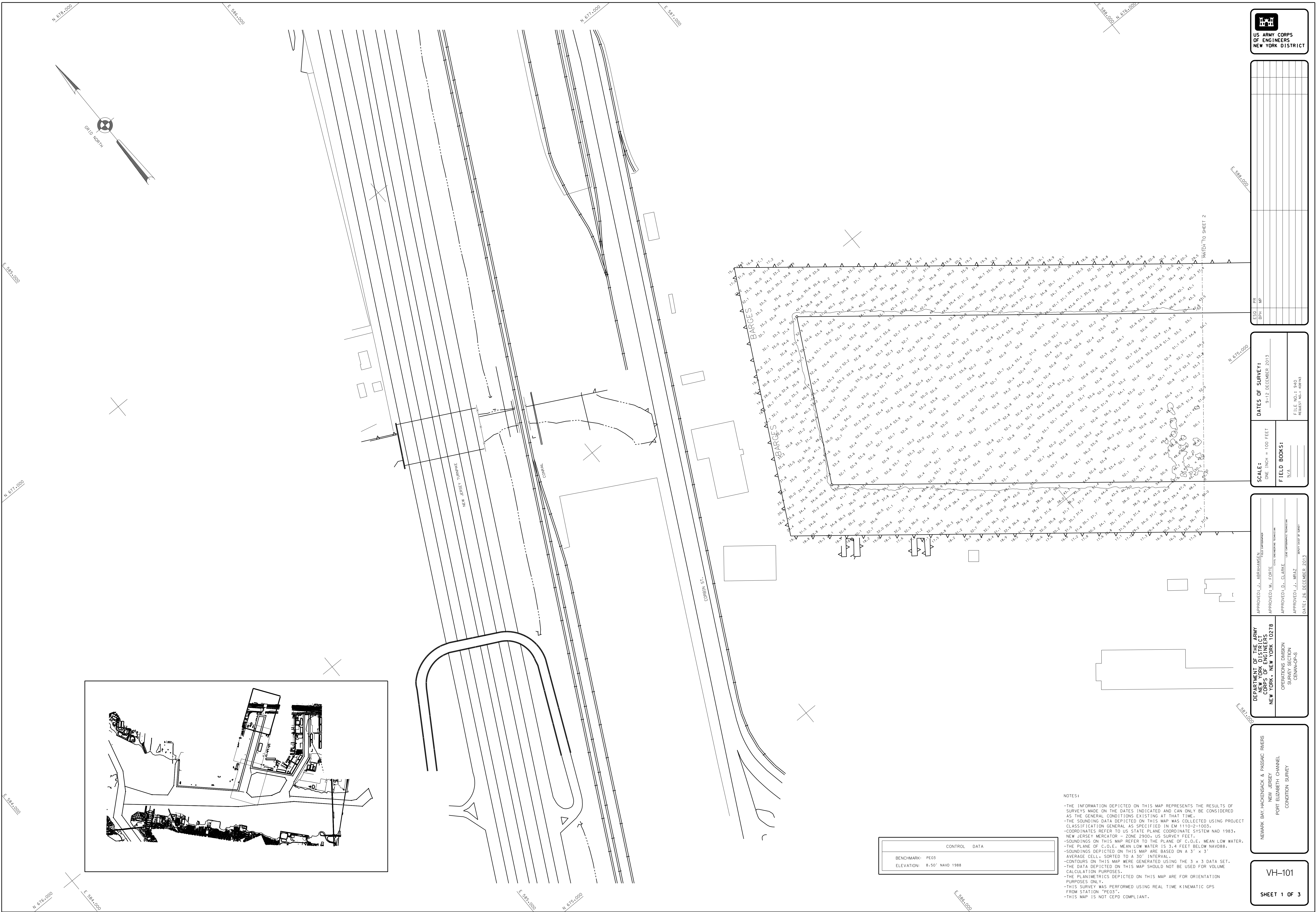
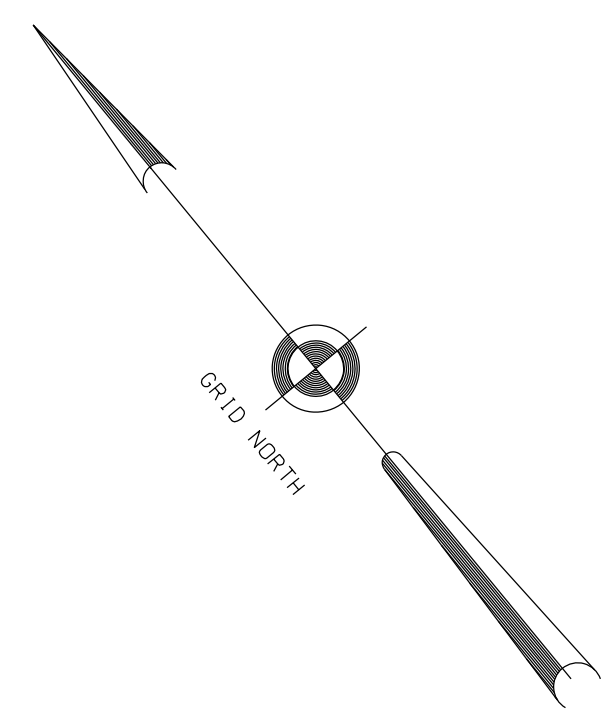
OPERATIONS DIVISION
SOUNDING DIVISION
CENRAN-OPS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT NEWARK & PIERHEAD CHANNEL
PLANS AND SPECIFICATIONS SURVEY

VH-106
SHEET 6 OF 6



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

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 - THE PLANE OF C.D.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD83.
 - SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' X 3' AVERAGE CELL, SORTED TO A 50' INTERVAL.
 - CONTOURS ON THIS MAP WERE GENERATED USING THE 3' X 3' DATA SET.
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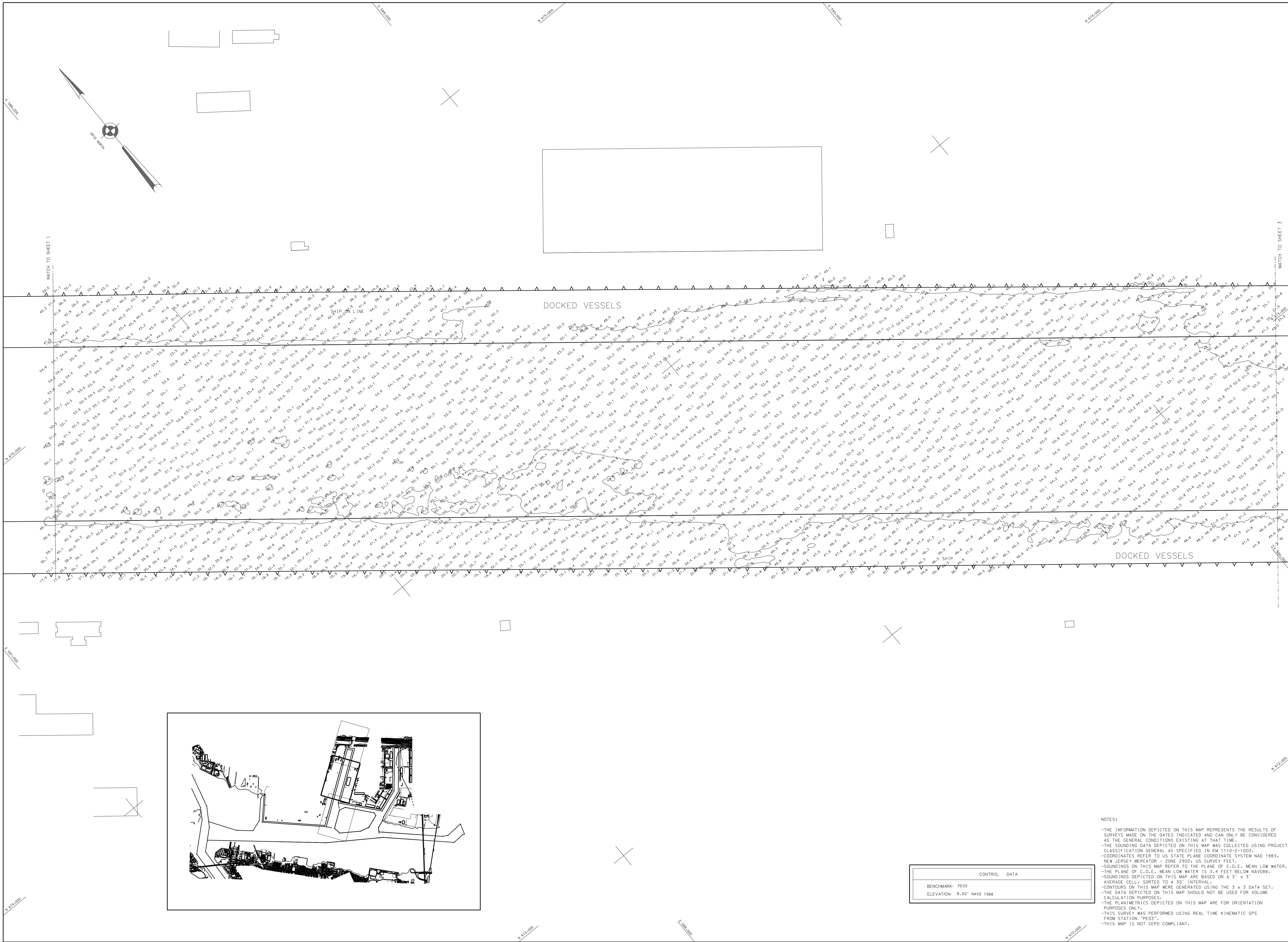
ESD	DR	
BPH	MP	

SCALE:	DATE OF SURVEY:
ONE INCH = 100 FEET	3-12 DECEMBER 2013
FIELD BOOKS:	FILE NO.: 1 940
N/A	REQUEST NO.: 08193

APPROVED: J. ABRAHAMSEN	DATE: 26 DECEMBER 2013
APPROVED: M. EDITE	
APPROVED: D. CLARKE	
APPROVED: J. WRAZ	

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278
OPERATIONS DIVISION
SOUTH PLAIN
CENRAN-CPS

NEWARK BAY HACKENSACK & PASSAIC RIVERS
NEW JERSEY
PORT ELIZABETH CHANNEL
CONDITION SURVEY



DATE	9-12-2013
PROJECT	PORT ELIZABETH CHANNEL
JOB NO.	10278
DRAWN BY	J. WRAZ
CHECKED BY	J. WRAZ
DATE	26 DECEMBER 2013

FIELD BOOKS:
N/A

DATES OF SURVEY:
9-12 DECEMBER 2013

SCALE:
VERTICAL = 100 FEET

APPROVED: J. ABRAHAMSON
APPROVED: M. EDGIE
APPROVED: D. CLARKE
APPROVED: J. WRAZ

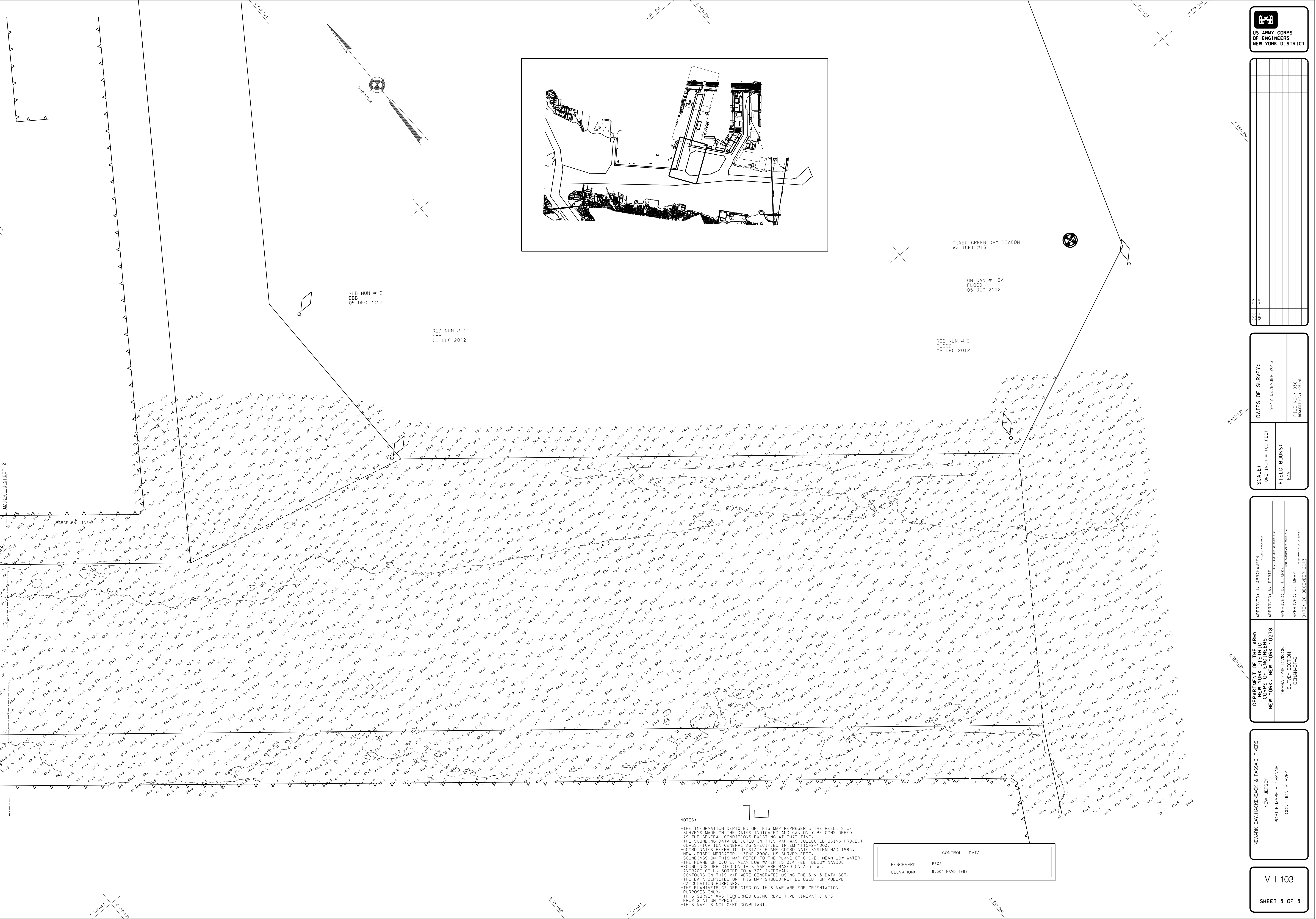
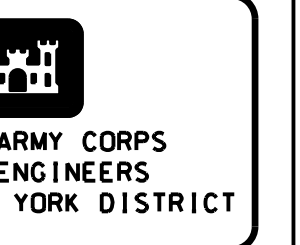
DATE: 26 DECEMBER 2013

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
 NEW JERSEY
 PORT ELIZABETH CHANNEL
 CONDITION SURVEY

VH-102
 SHEET 2 OF 3

CONTROL DATA
 BENCHMARK: PE03
 ELEVATION: 6.50' NAVD 1988

NOTES:
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 -THE SOUNDINGS 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, NEW JERSEY MERCATOR - ZONE 2000, US SURVEY FEET.
 -SOUNDINGS ON THIS MAP REFER TO THE PLANE OF C.D.E., MEAN LOW WATER.
 -THE PLANE OF C.D.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD83.
 -SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' AVERAGE 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.
 -THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
 -THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE03".
 -THIS MAP IS NOT CEPD COMPLIANT.



MATCH TO SHEET 2

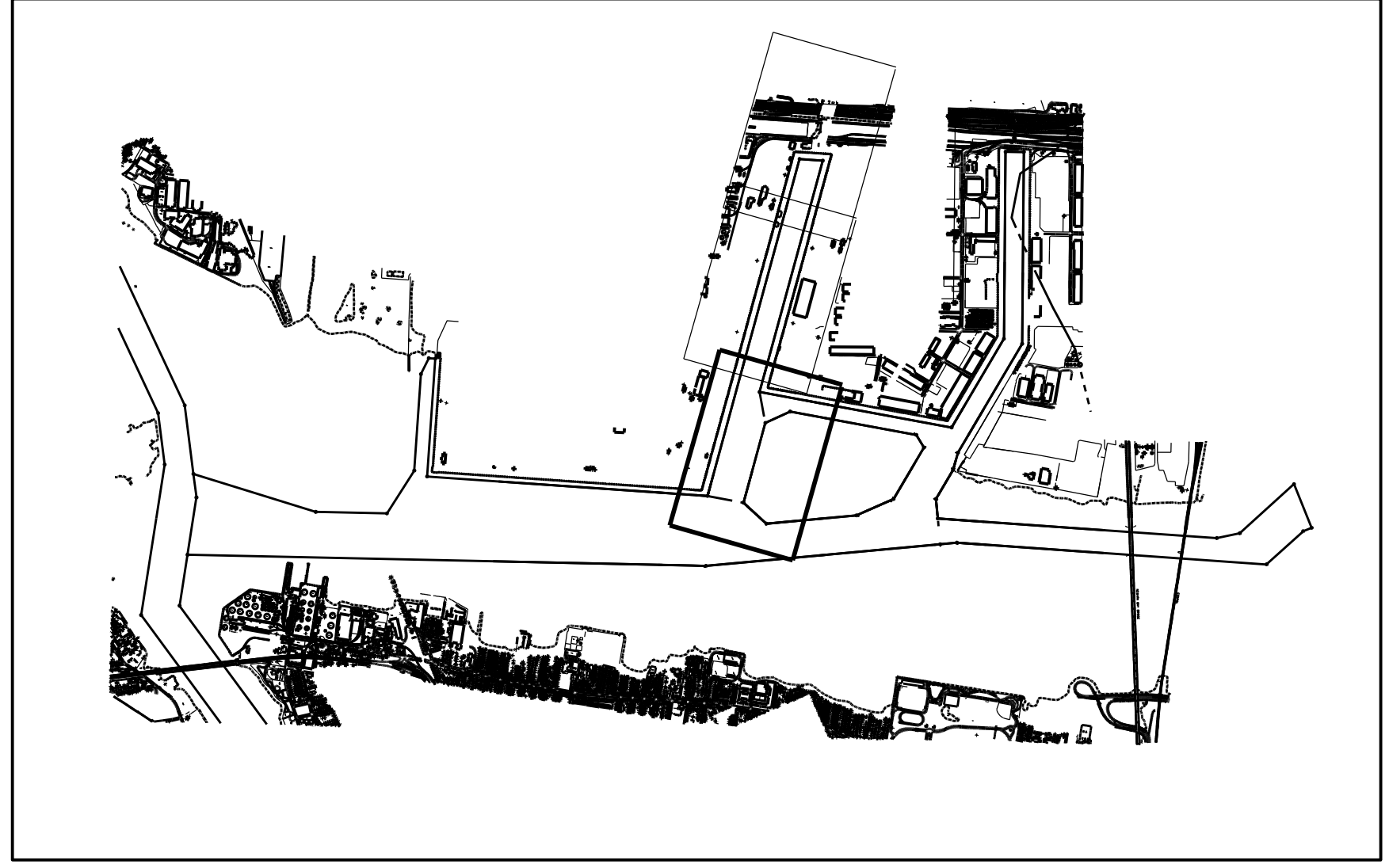
RED NUN # 6
EBB
05 DEC 2012

RED NUN # 4
EBB
05 DEC 2012

FIXED GREEN DAY BEACON
W/LIGHT #15

GN CAN # 15A
FLOOD
05 DEC 2012

RED NUN # 2
FLOOD
05 DEC 2012



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, NEW JERSEY MERCATOR - ZONE 2000, US SURVEY FEET.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF C.O.E., MEAN LOW WATER.
-THE PLANE OF C.O.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' AVERAGE CELL, SORTED TO A 3D 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.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE03".
-THIS MAP IS NOT DEP'D COMPLIANT.

CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

ESD:	
PR:	
AP:	
DATE:	
FILE NO.:	036
PROJECT NO.:	107B

SCALE:	1" = 100 FEET
DATES OF SURVEY:	9-12 DECEMBER 2013
FIELD BOOKS:	N/A
FILE NO.:	036
PROJECT NO.:	107B

APPROVED BY:	J. ABRAMSON
APPROVED FOR:	M. EDELL
APPROVED BY:	D. CLARK
APPROVED FOR:	J. WRAZ
DATE:	26 DECEMBER 2013

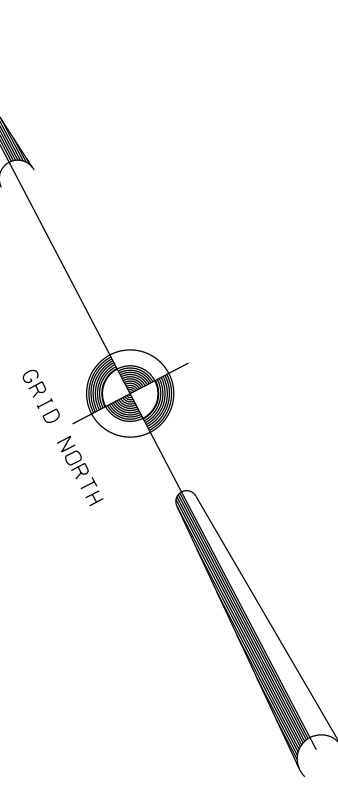
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
GEN-NOCS

NEW JERSEY
PORT ELIZABETH CHANNEL
CONDITION SURVEY



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD (1988)

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.
 -THE HORIZONTAL DATUM IS NAD 1983.
 -SOUNDINGS ON THIS MAP REFER TO THE PLANE OF C.O.E., MEAN LOW WATER.
 -THE PLANE OF C.O.E., MEAN LOW WATER IS 3.4 FEET BELOW NAVD83.
 -SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' X 3' AVERAGE 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 NJ GIS WAREHOUSE 2012
 -THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE03".
 -THIS MAP IS NOT CEPD COMPLIANT.

DATES OF SURVEY:
 18-19-21-26 NOV 2013

SCALE:
 ONE INCH = 100 FEET

FIELD BOOKS:
 1082

APPROVED: D. SMITH, Lt. Colonel, P.E.
 APPROVED: M. ERDIE, Major, P.E.
 APPROVED: D. CLORKE, Captain, P.E.
 APPROVED: J. WRAY, Captain, P.E.

DEPARTMENT OF THE ARMY
 CORPS OF ENGINEERS
 NEW YORK DISTRICT
 NEW YORK, NEW YORK 10278
 OPERATIONS DIVISION
 SOUTH ELIZABETH CHANNEL
 CONDITION SURVEY

VH-101
 SHEET 1 OF 1