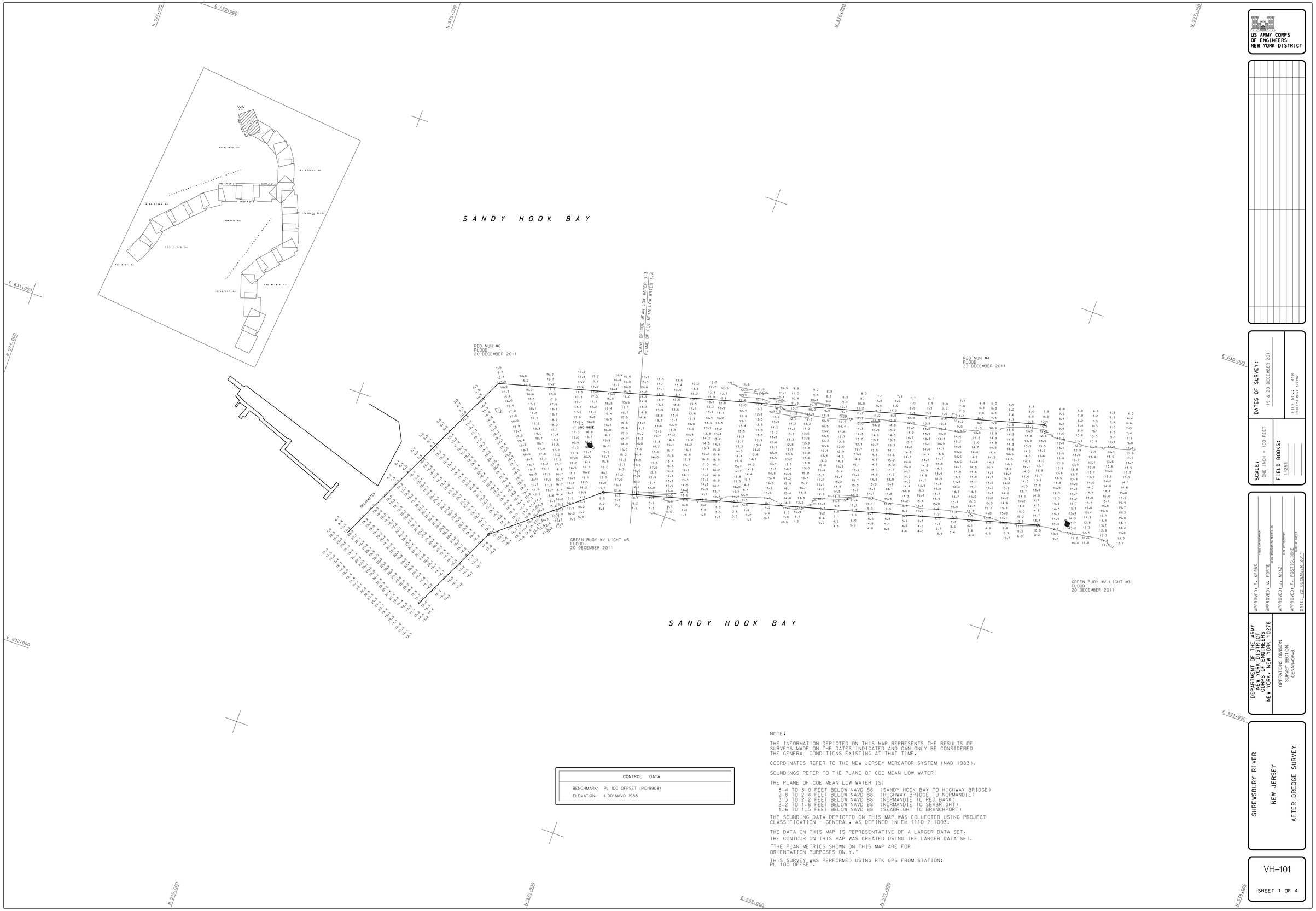
CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID:9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

THE PLANE OF COE MEAN LOW WATER IS:
- 3.4 TO 3.0 FEET BELOW NAVD 88 (SANDY HOOK BAY TO HIGHWAY BRIDGE)
- 2.8 TO 2.4 FEET BELOW NAVD 88 (HIGHWAY BRIDGE TO NORMANDIE)
- 3.3 TO 2.2 FEET BELOW NAVD 88 (NORMANDIE TO RED BANK)
- 2.2 TO 1.8 FEET BELOW NAVD 88 (NORMANDIE TO SEABRIGHT)
- 1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE CONTOUR ON THIS MAP WAS CREATED USING THE LARGER DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
19 & 20 DECEMBER 2011

FILE NO.: 418
REQUEST NO.: 3777N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1423

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 22 DECEMBER 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
AFTER DREDGE SURVEY

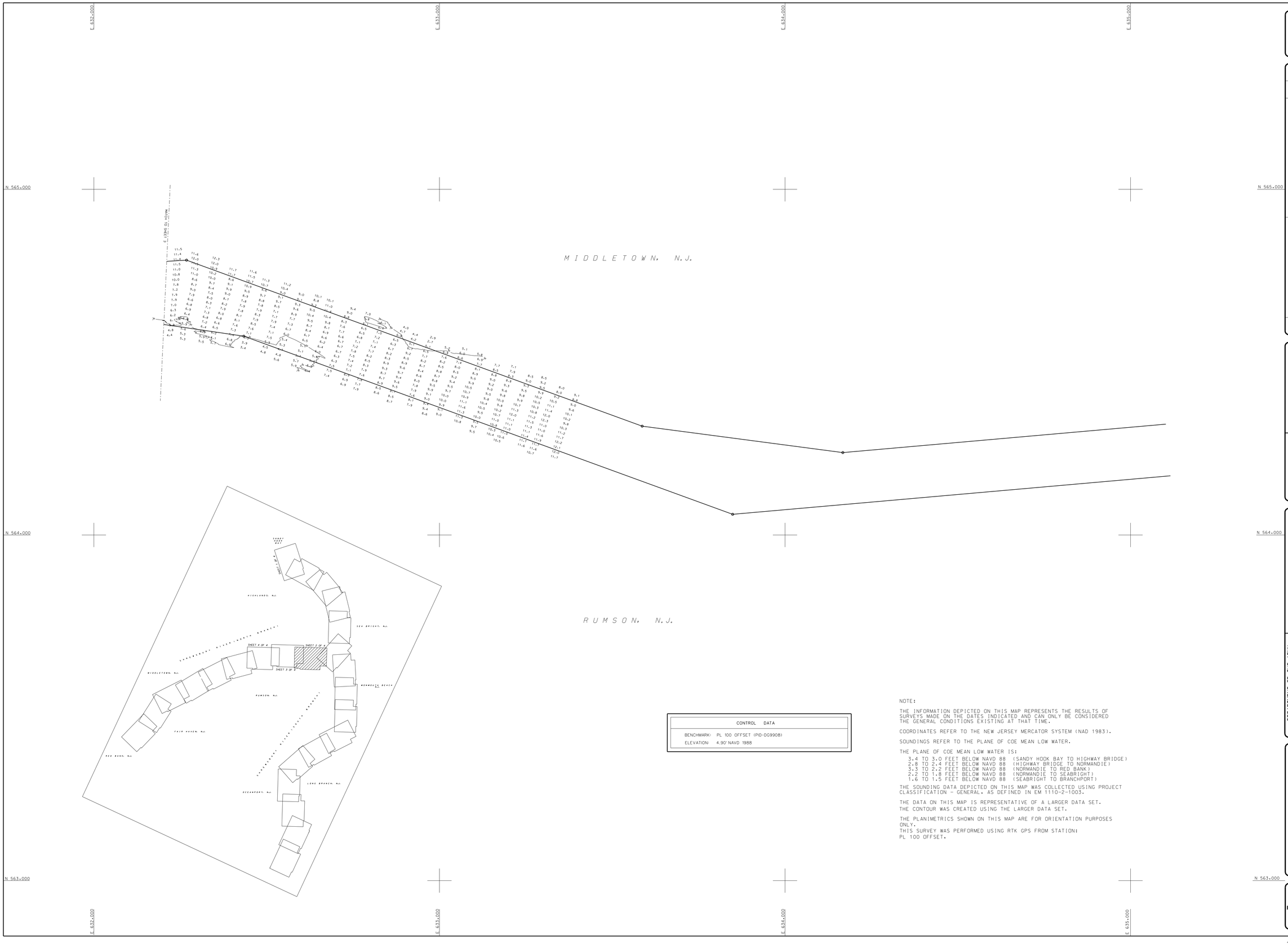
VH-101

SHEET 1 OF 4

418
3777N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA
BENCHMARK: PL 100 OFFSET (PID-DG9908)
ELEVATION: 4.90' NAVD 1988

NOTE:

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
19 & 20 DECEMBER 2011

FILE NO.: 418
REQUEST NO.: 3777N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14293

APPROVED: D. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MARLAY — LINE CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 22 DECEMBER 2011

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

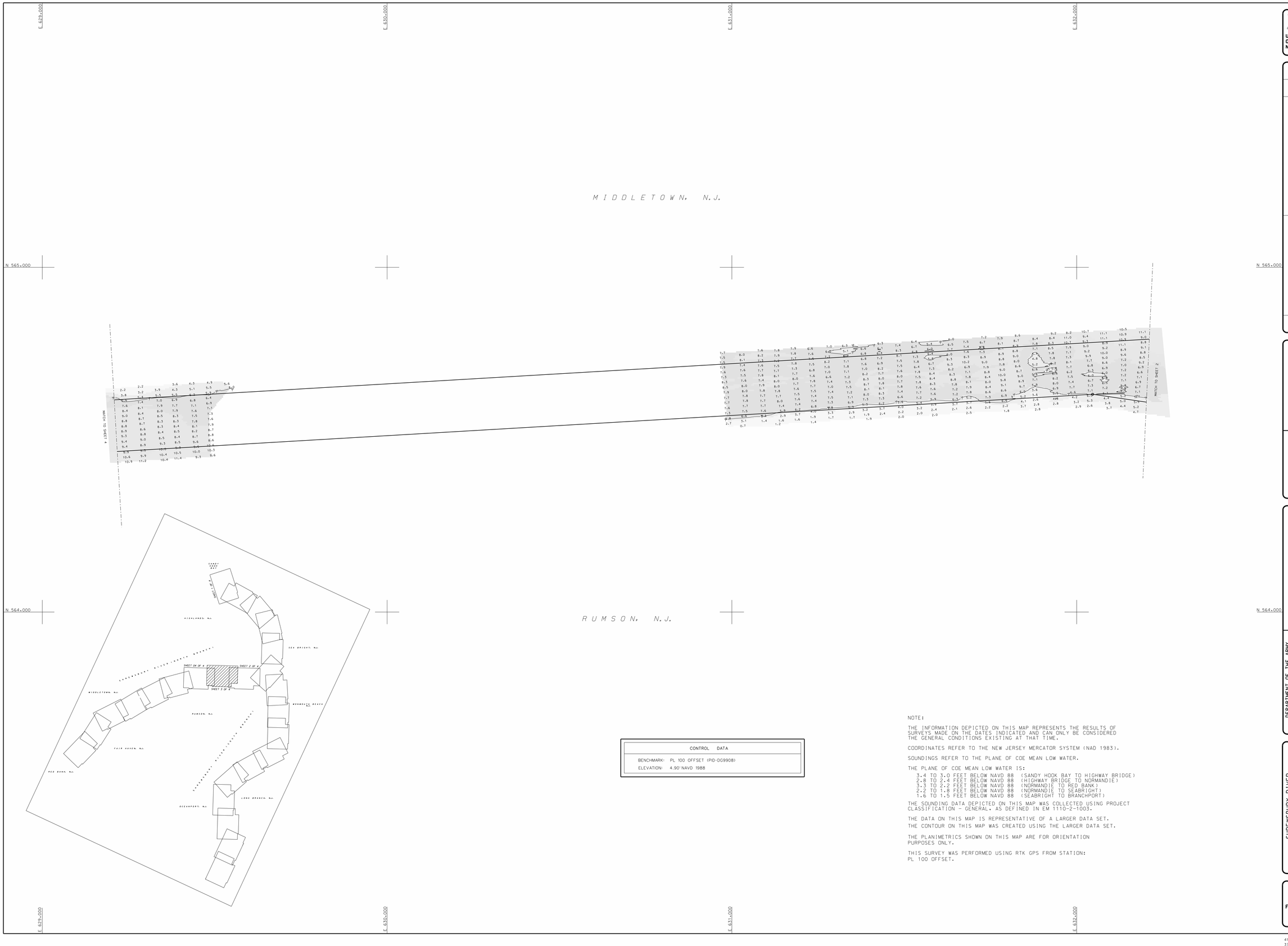
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY

AFTER DREDGE SURVEY

VH-102
FORMERLY SHEET 7
SHEET 02 OF04

418
3777N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THE CONTOUR ON THIS MAP WAS CREATED USING THE LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
19 & 20 DECEMBER 2011

FILE NO.: 418
REQUEST NO.: 377782

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14253

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ CAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 22 DECEMBER 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

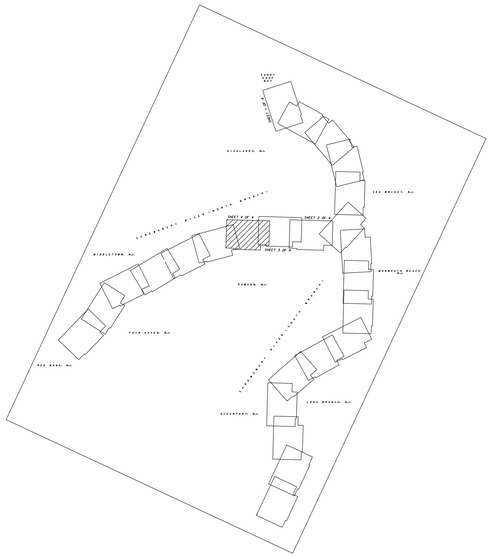
SHREWSBURY RIVER
NEW JERSEY
AFTER DREDGE SURVEY

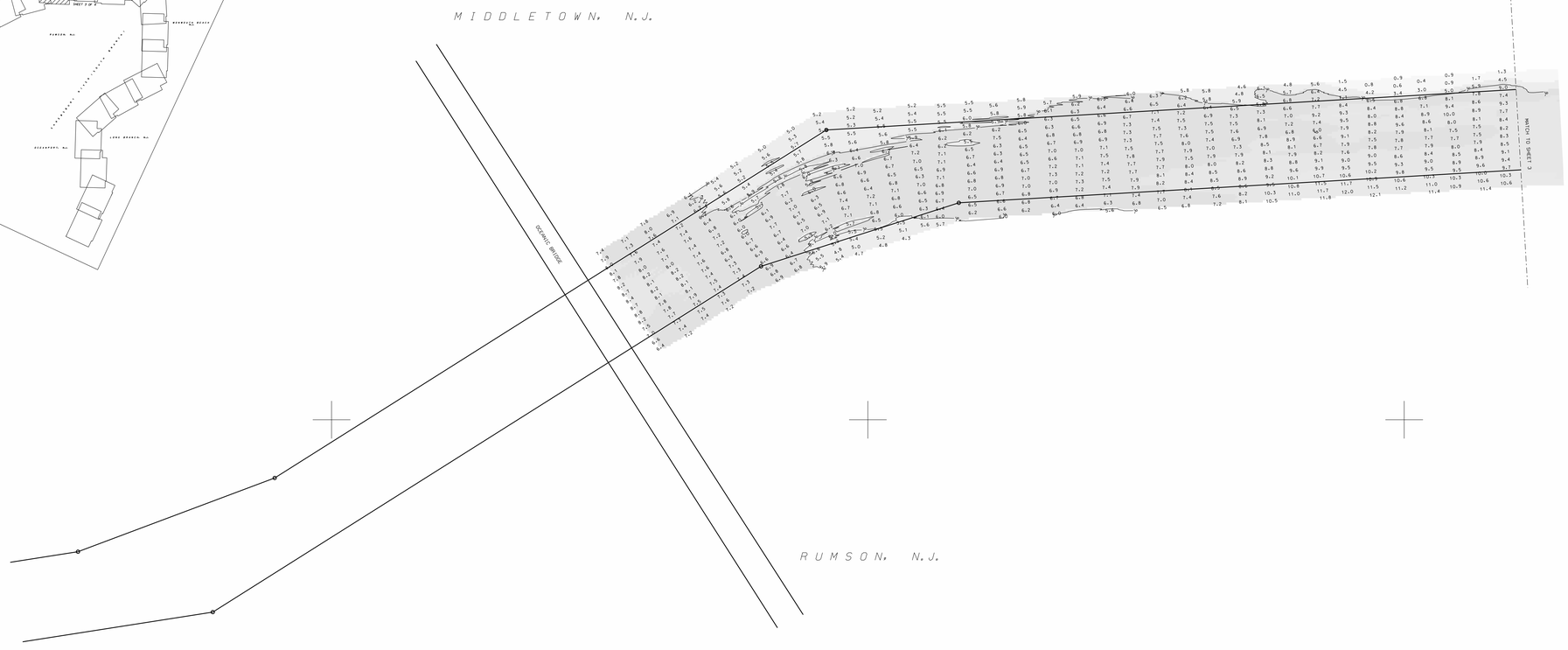
VH-103
FORMERLY SHEET 8
SHEET 03 OF 04

418
3777N2

CORPS OF ENGINEERS

U. S. ARMY





CONTROL DATA
BENCHMARK: PL 100 OFFSET (PID-DG9908)
ELEVATION: 4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

THE PLANE OF COE MEAN LOW WATER IS:
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- 2.2 TO 1.8 FEET BELOW NAVD 88 (NORMANDIE TO SEABRIGHT)
- 1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

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THE CONTOUR ON THIS MAP WAS CREATED USING THE LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 19 & 20 DECEMBER 2011

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14263

FILE NO.: 418
REQUEST NO.: 377742

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ LEAD CARTOGRAPHER
APPROVED: E. POSTIGLIONE CHIEF OF SURVEY
DATE: 22 DECEMBER 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
AFTER DREDGE SURVEY

VH-104
FORMERLY SHEET 9
SHEET 4 OF 4

418
3777N2

CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID:9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
JUL 25, 15, 18-21 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N2/N

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14,282

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CADD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

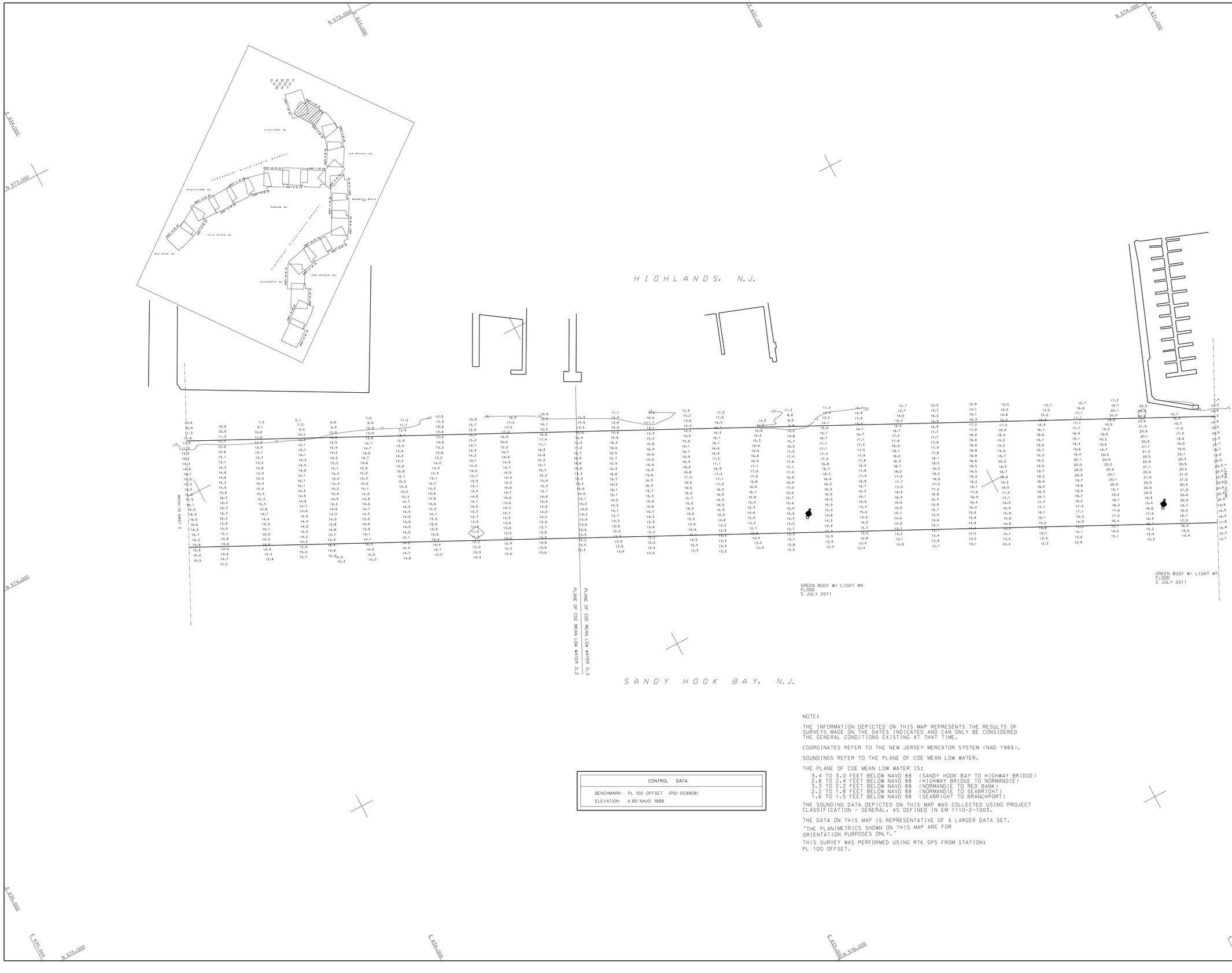
VH-101

SHEET 1 OF 25

417
3709N2/N

CORPS OF ENGINEERS

U. S. ARMY



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CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID: DG9908)
ELEVATION:	4.90' NAVD 1988

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12-15,18-21
25-29,31, 1-4,8-12 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1-4292

APPROVED: P. KERNS — FIELD SUPERVISOR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD SUPERVISOR
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

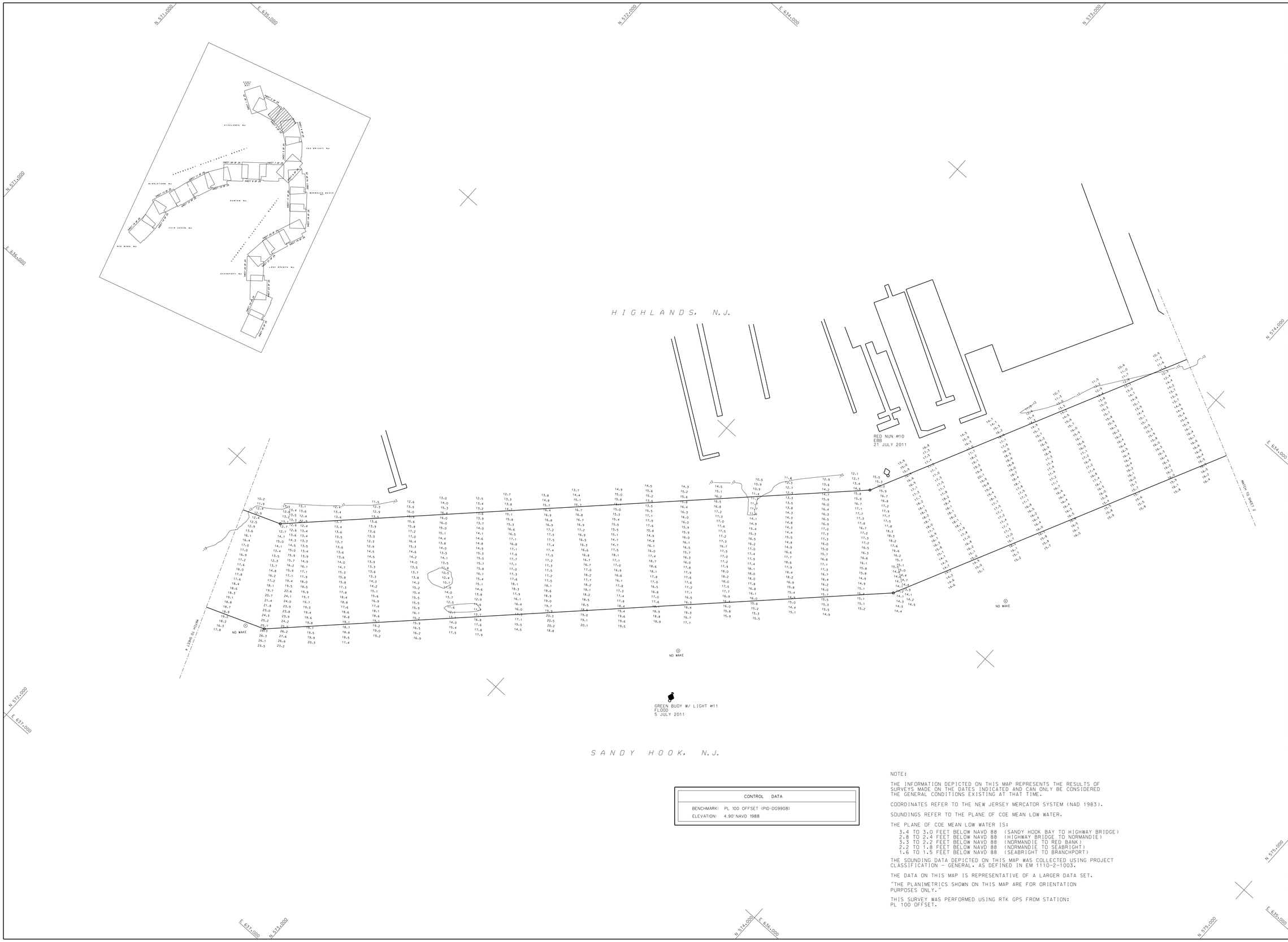
VH-102

SHEET 02 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 5-7, 12, 15, 18-21, 25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N2/N

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

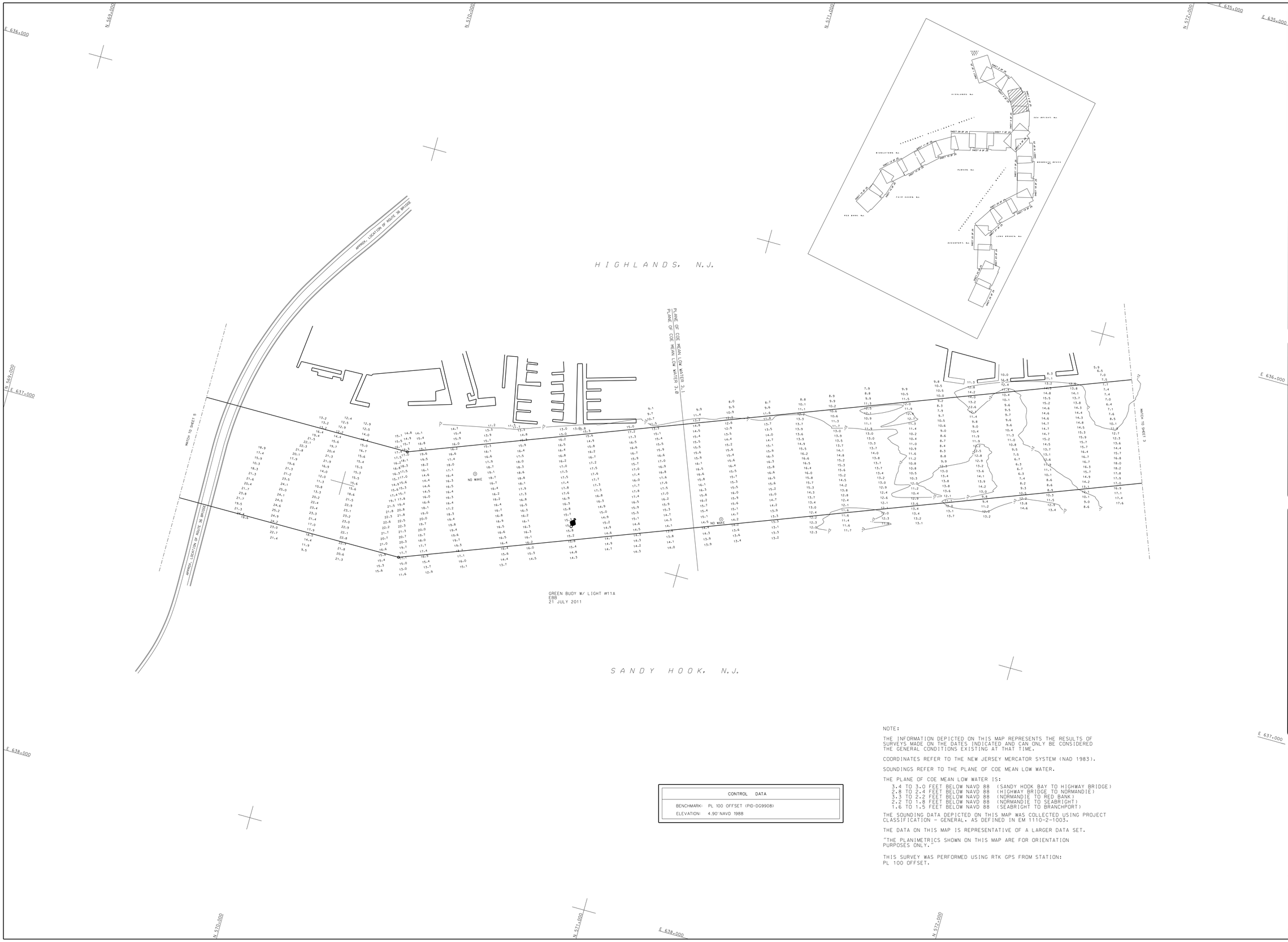
VH-103

SHEET 03 OF 25

417
3709N2/N

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 5-7,12,15,18-21, 25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N2/N

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

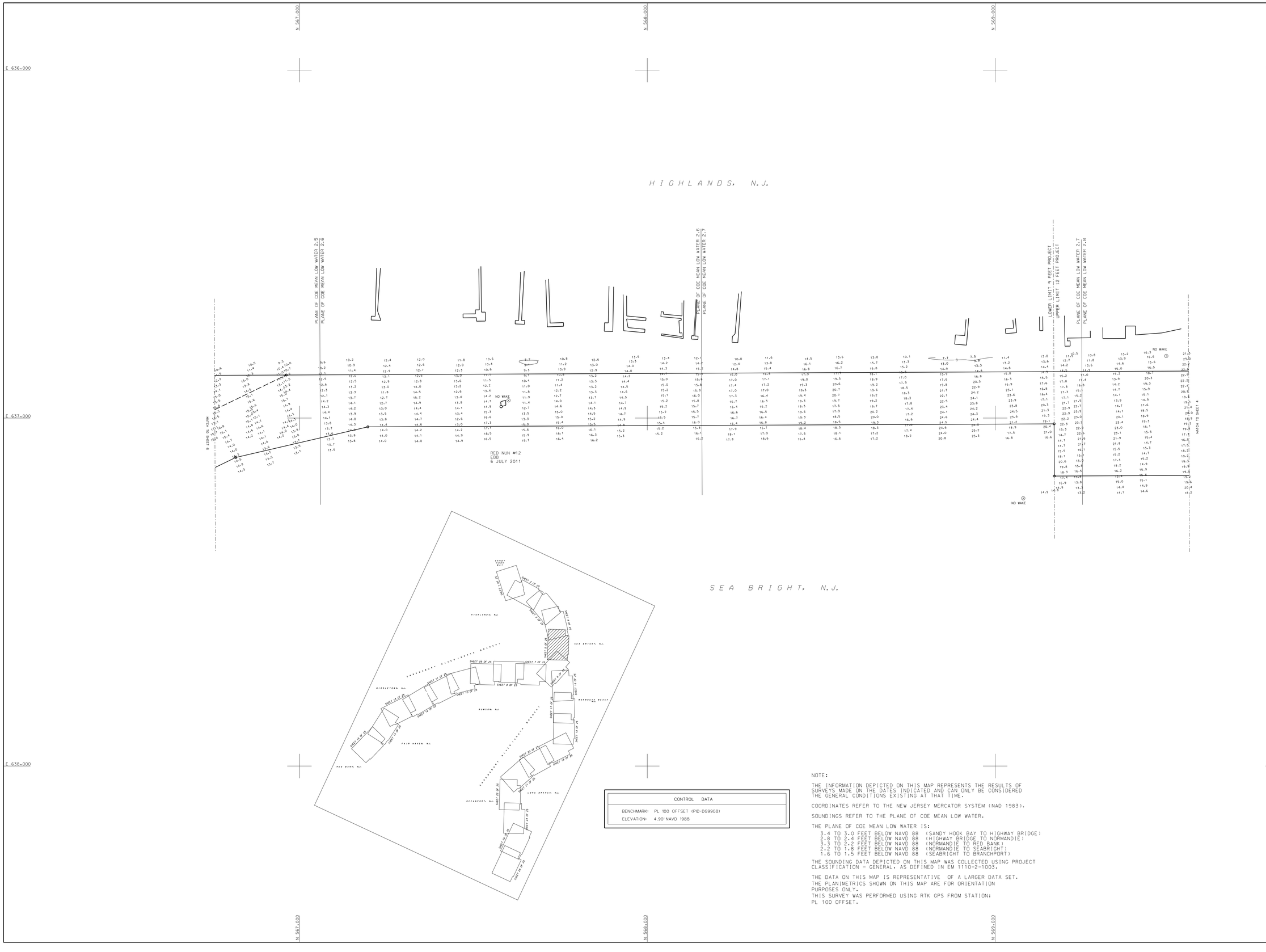
SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-104

SHEET 04 OF 25

417
3709N2/N



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21,
25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N2/N

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

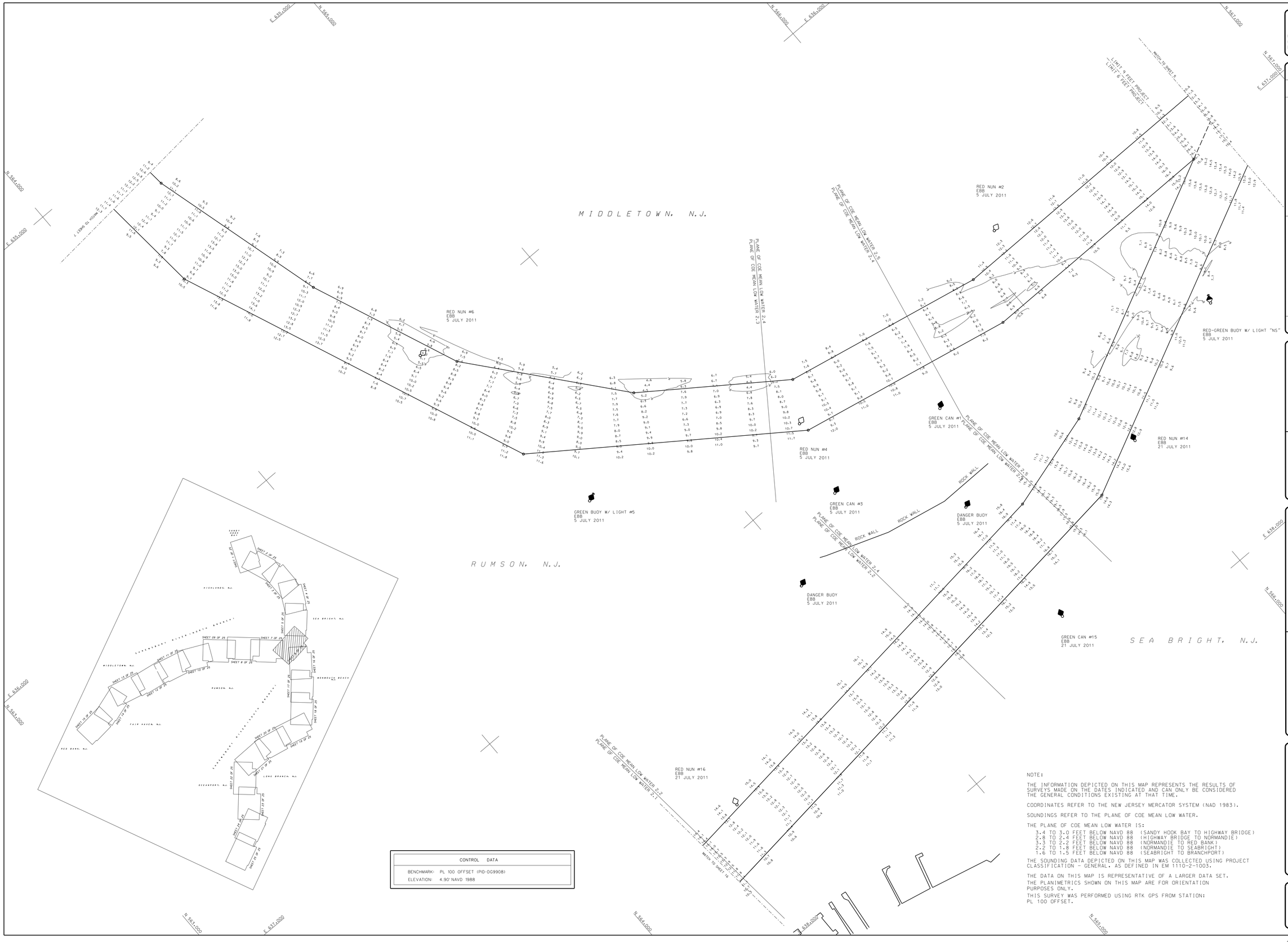
SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-105

SHEET 05 OF 25

417
3709N2/N



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY: 5-12,15,18-21 25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N2/N

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14269, PK 01

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

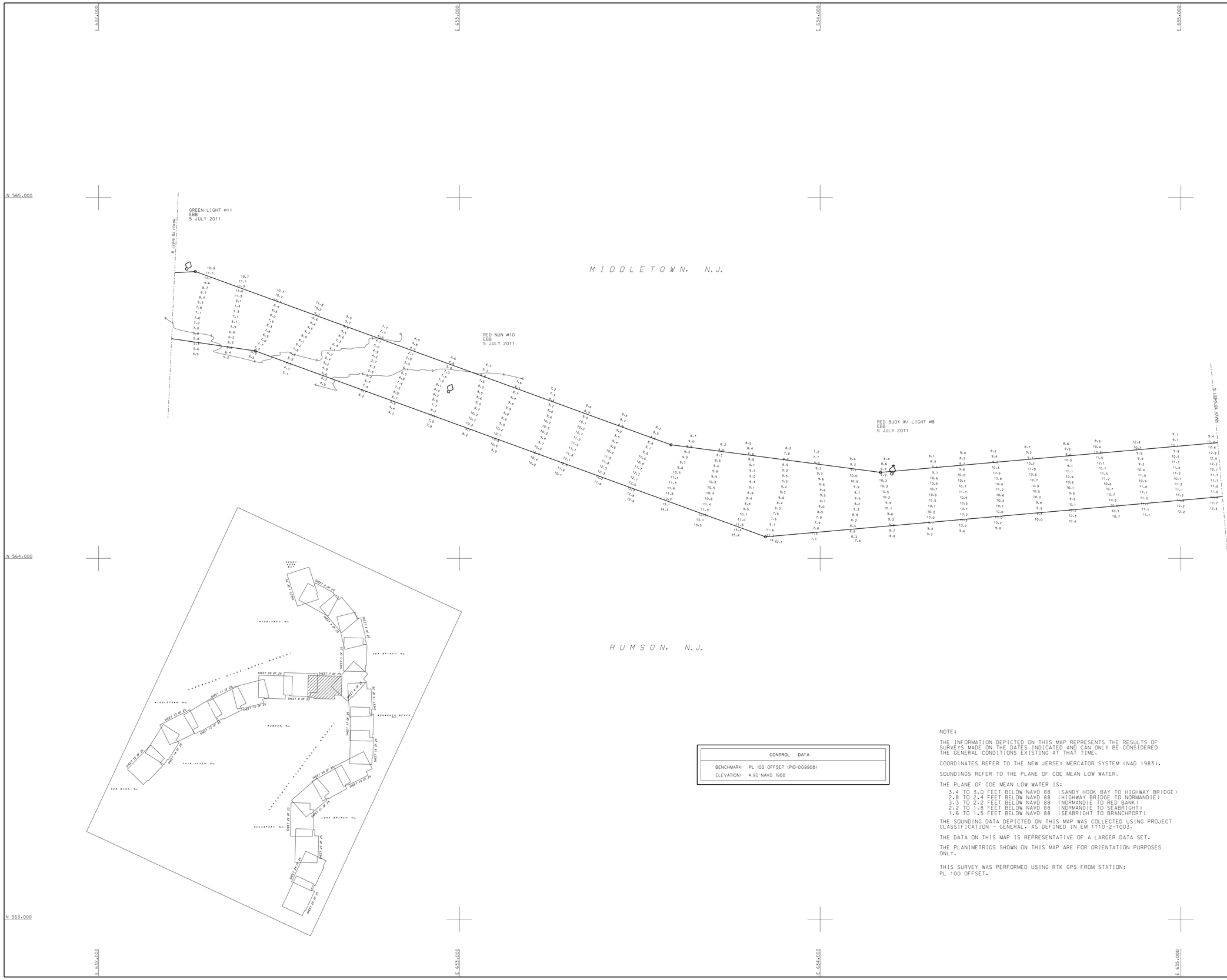
VH-106

SHEET 06 OF 25

417
3709N2/N

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

THE PLANE OF COE MEAN LOW WATER IS:

- 3.4 TO 3.0 FEET BELOW NAVD 88 (SANDY HOOK BAY TO HIGHWAY BRIDGE)
- 2.8 TO 2.4 FEET BELOW NAVD 88 (HIGHWAY BRIDGE TO NORMANDIE)
- 3.3 TO 2.2 FEET BELOW NAVD 88 (NORMANDIE TO RED BANK)
- 2.2 TO 1.8 FEET BELOW NAVD 88 (NORMANDIE TO SEABRIGHT)
- 1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1429

APPROVED: D. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MBAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

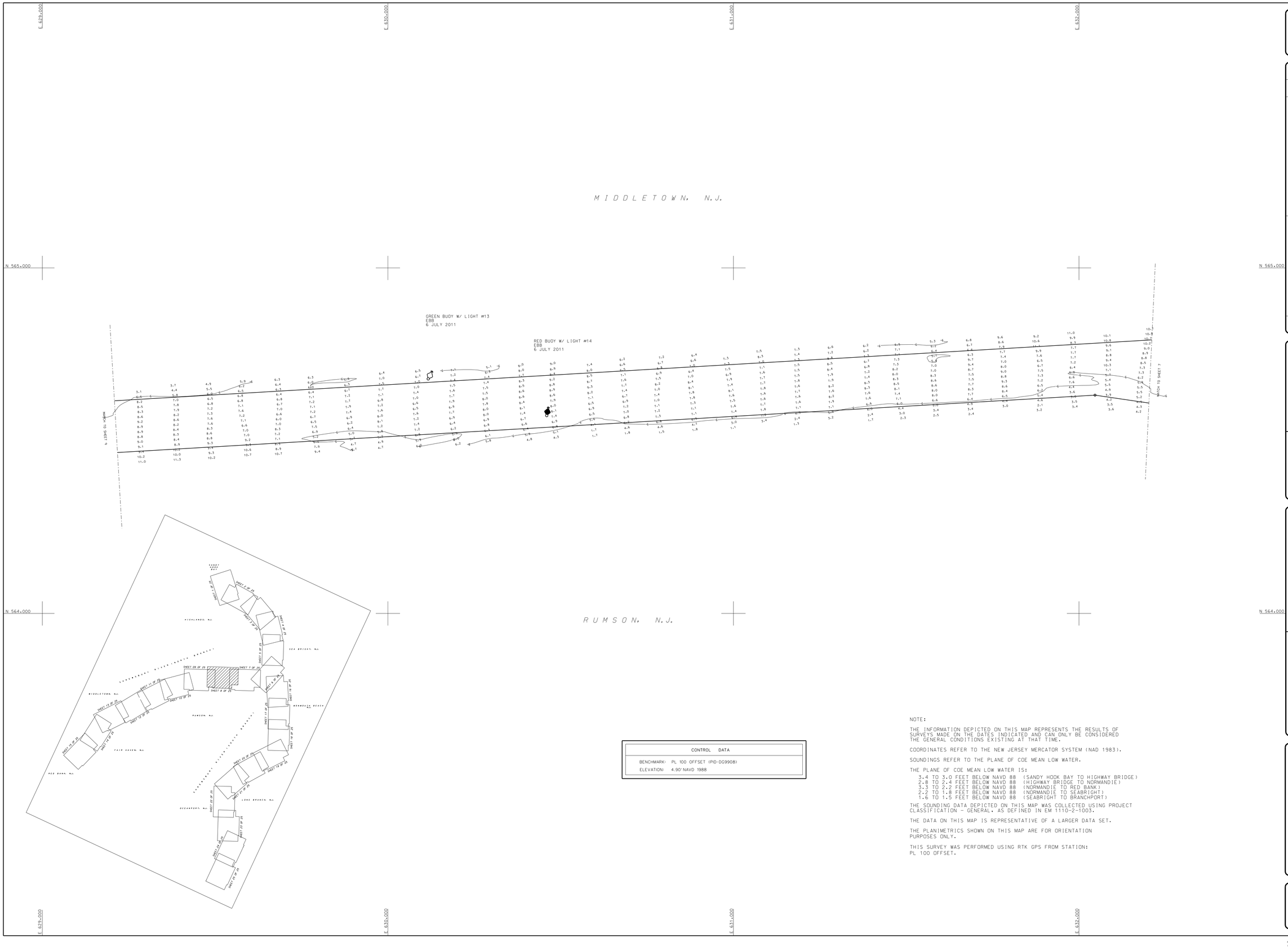
SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-107

SHEET 07 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY: 5-7,12,15,18-21 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

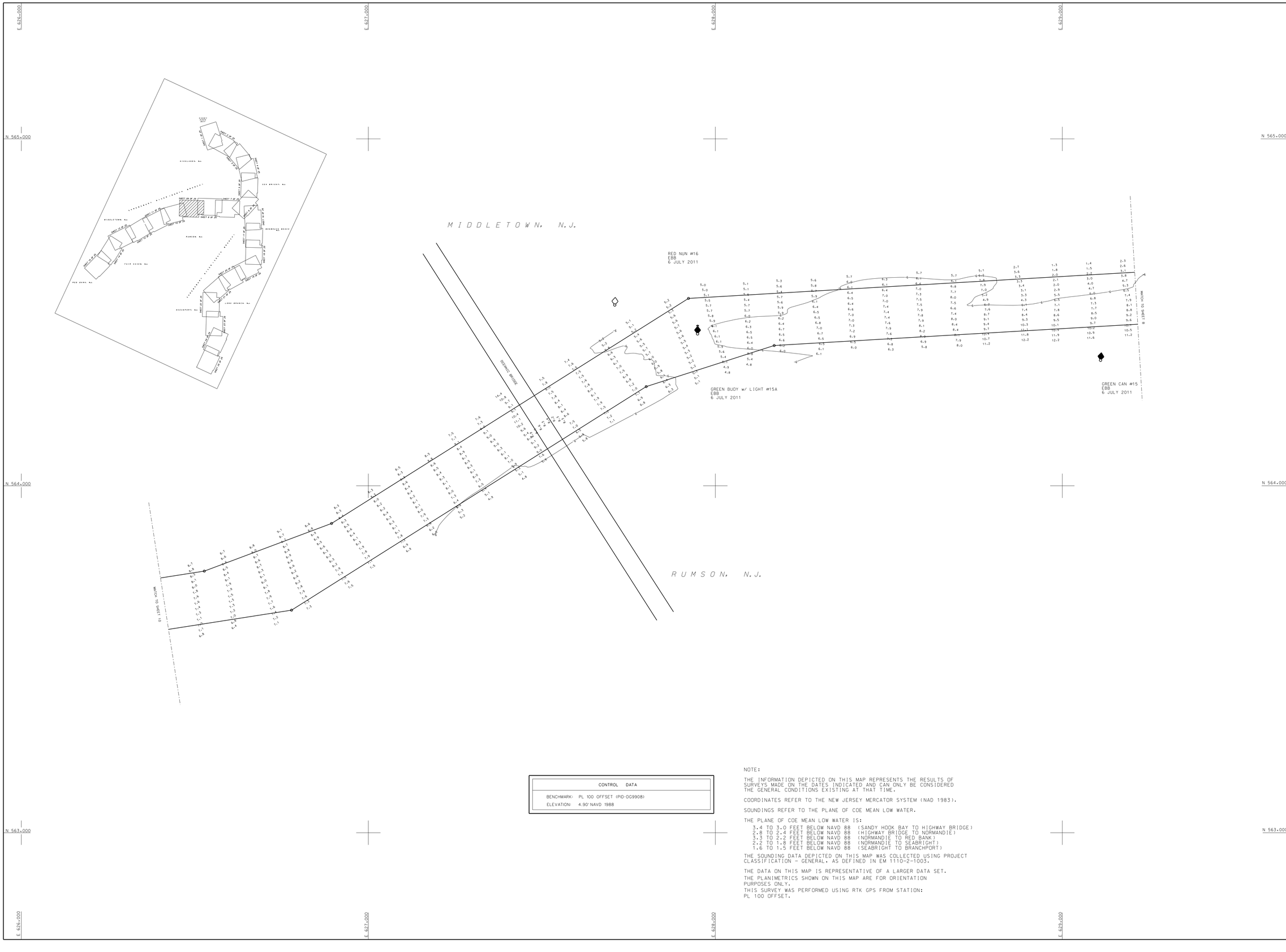
VH-108

SHEET 08 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY: 5-7, 12,15, 18-21 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14252

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUG 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

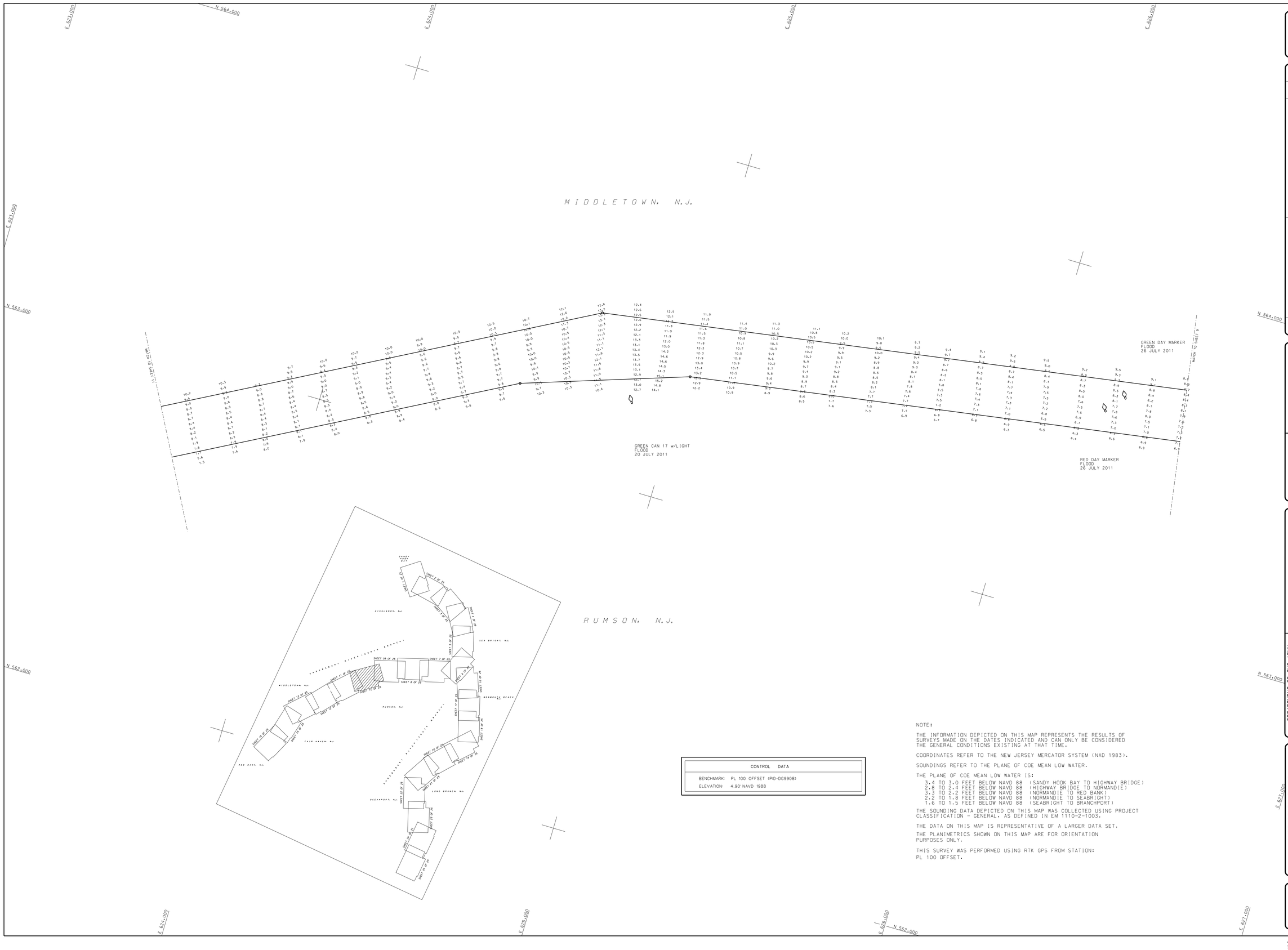
VH-109

SHEET 09 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
20 JULY, 1, 2, 3, 4
25-26 JULY, 16 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
15298

APPROVED: D. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MELAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

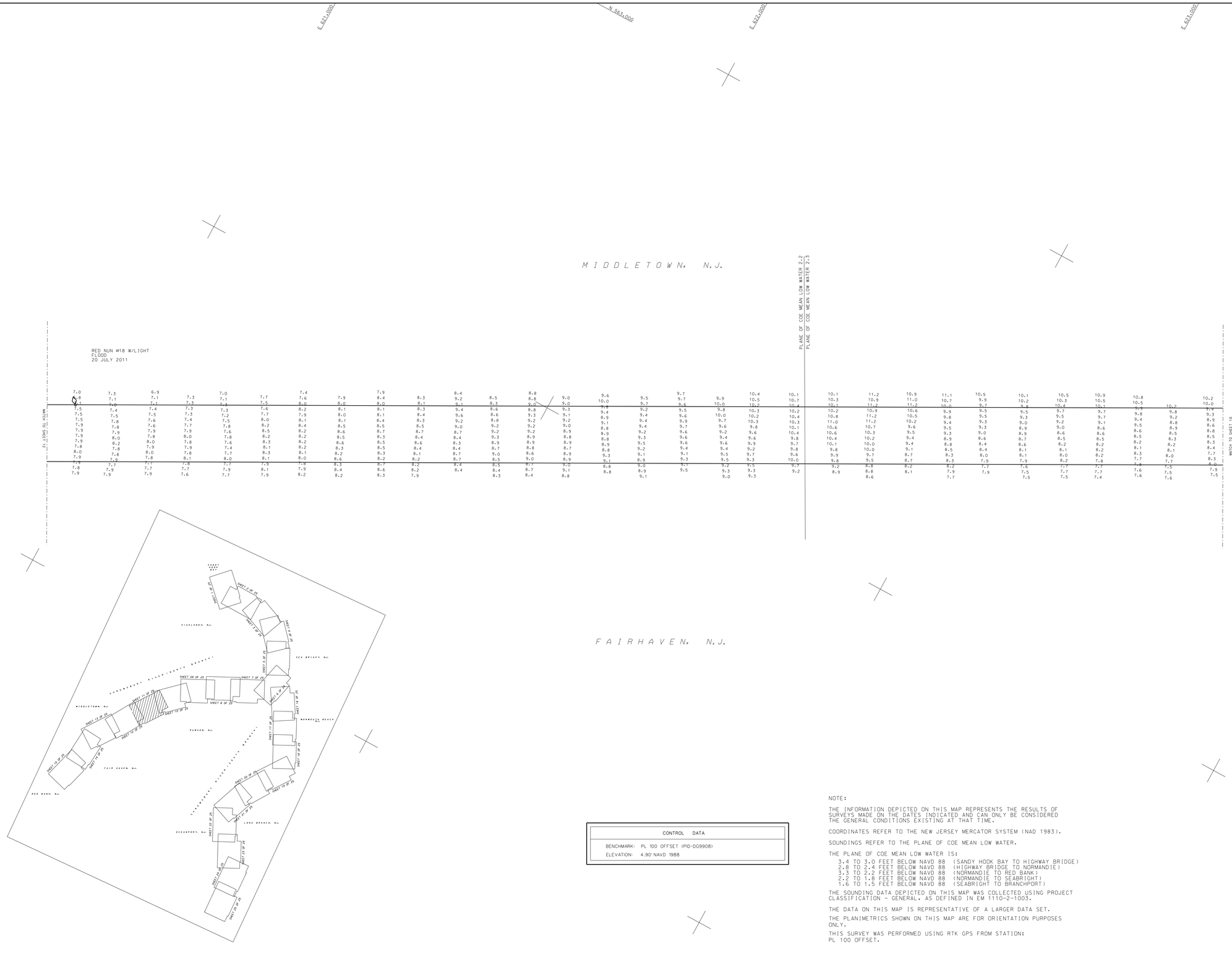
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-110

SHEET 10 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14432

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MEAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

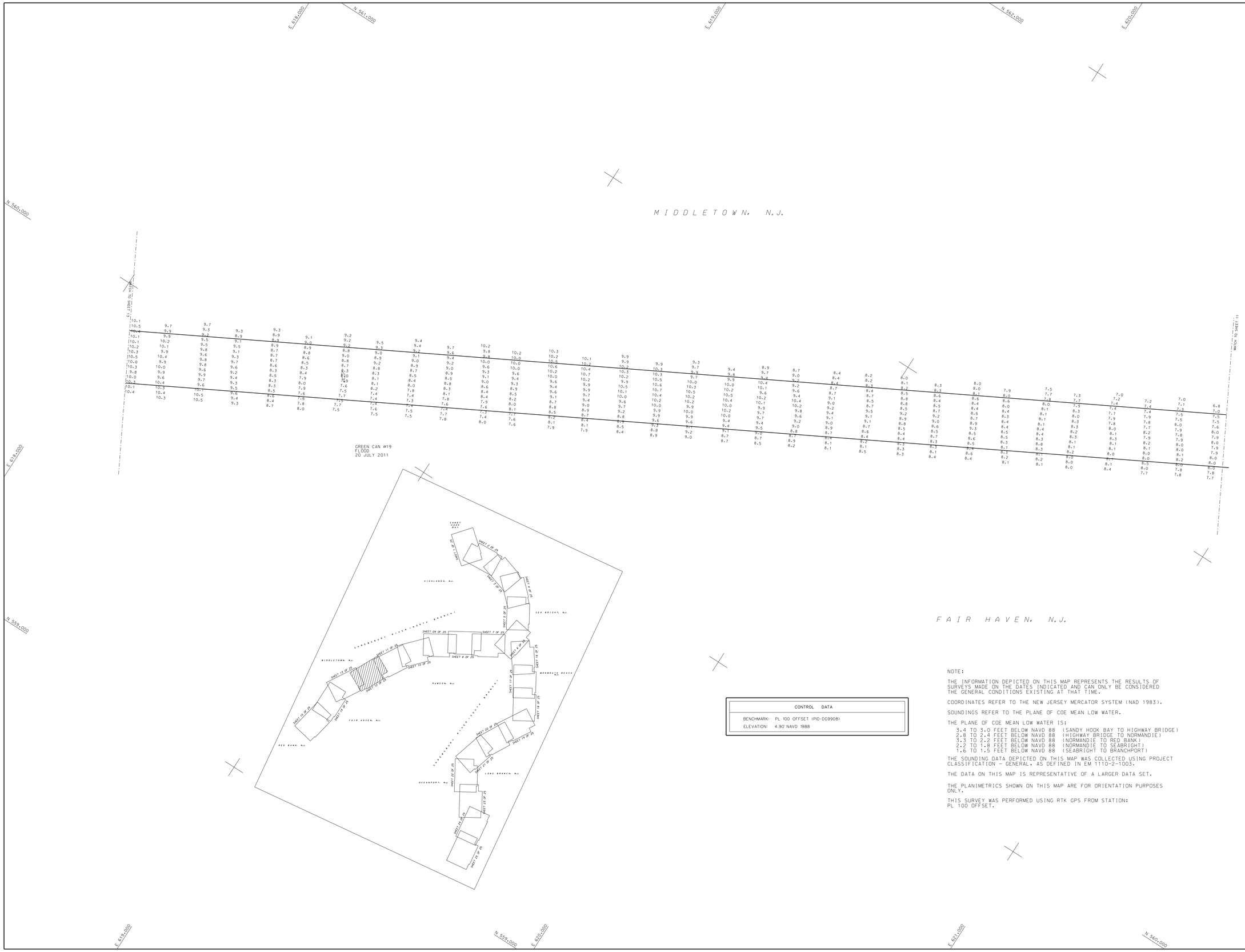
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

SHREWBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-111

SHEET 11 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21
25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

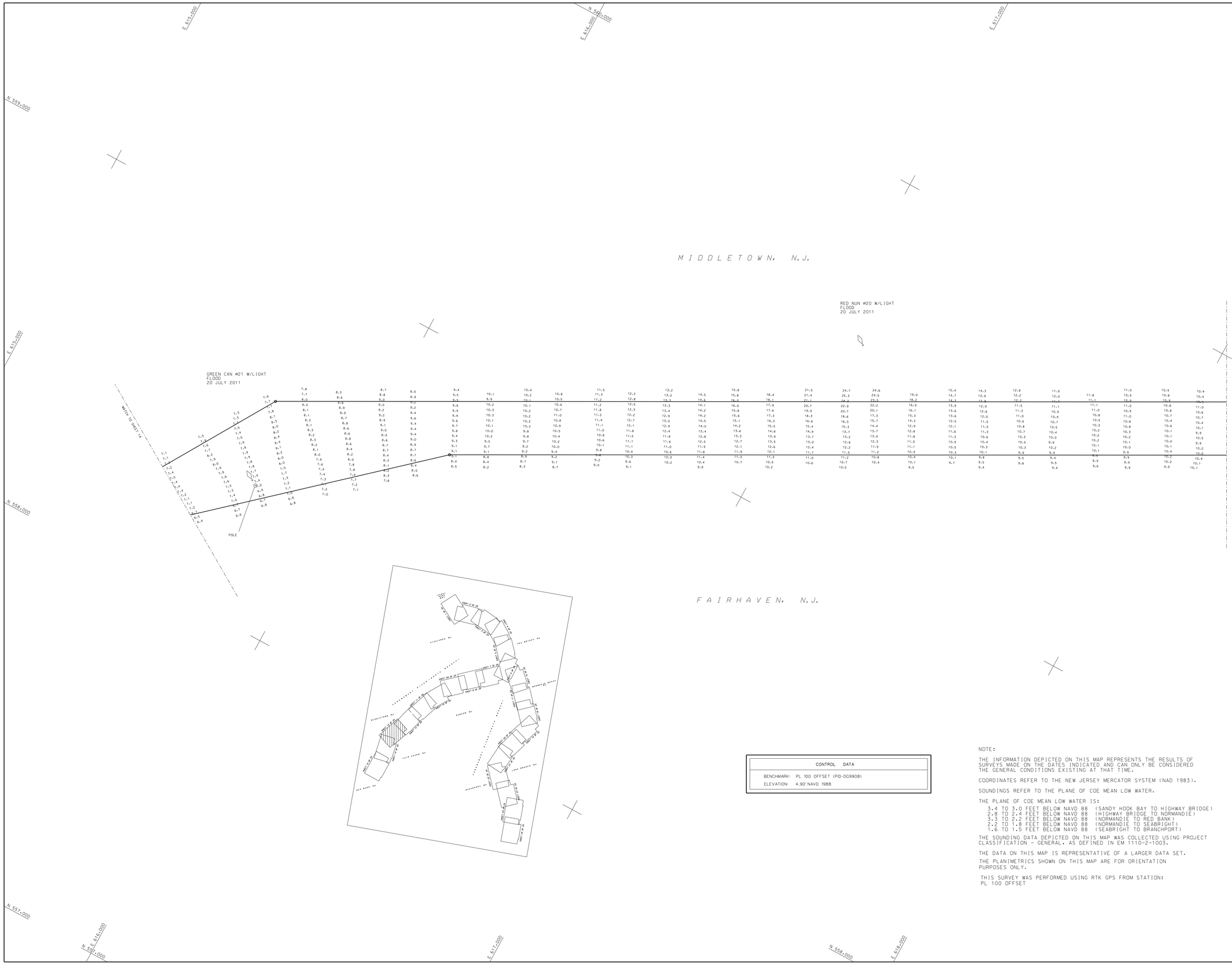
SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-112

SHEET 12 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY: 5-7, 12-15, 18-21 JUL 3-5 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14262

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

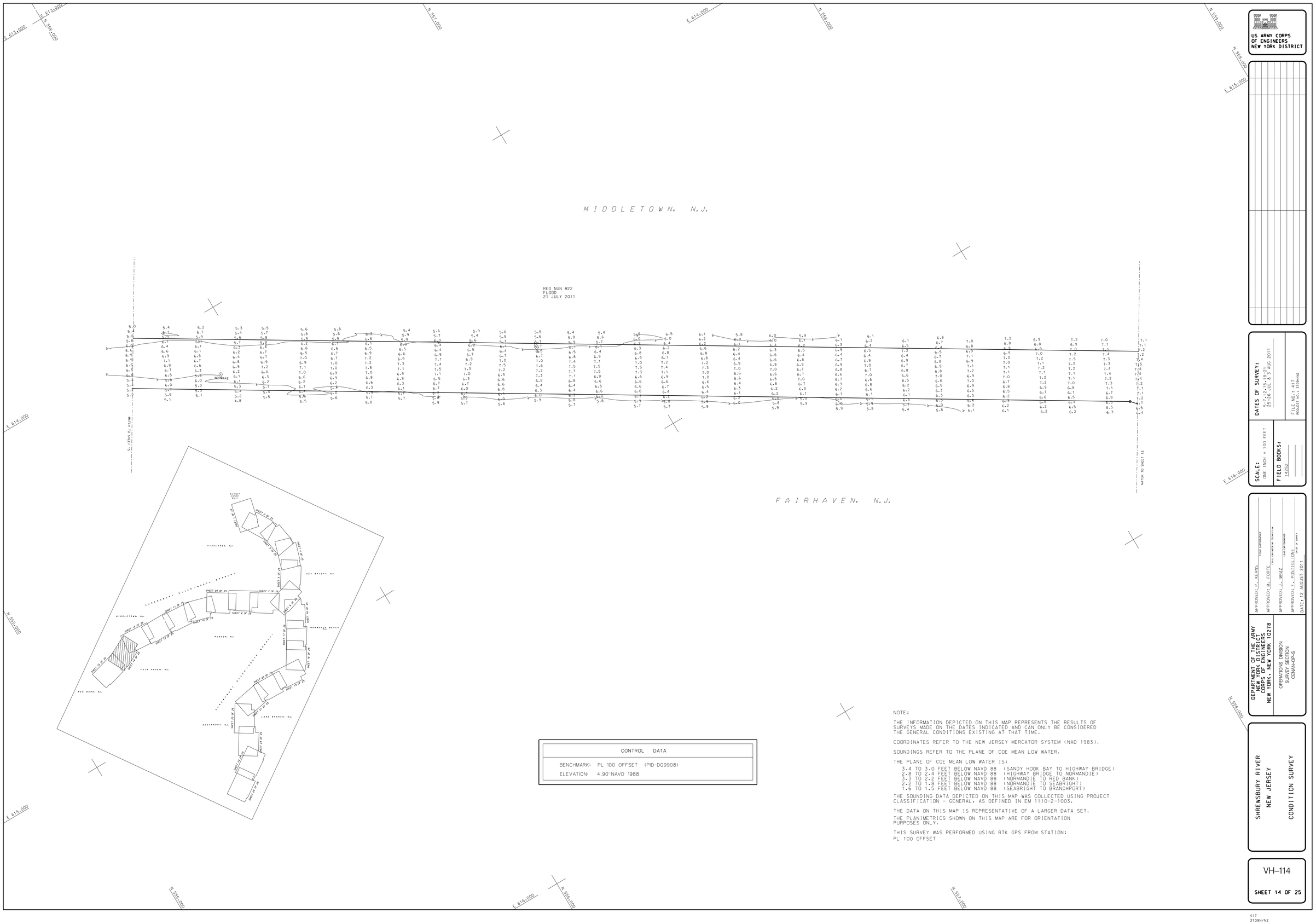
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-113

SHEET 13 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21
25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LAND CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

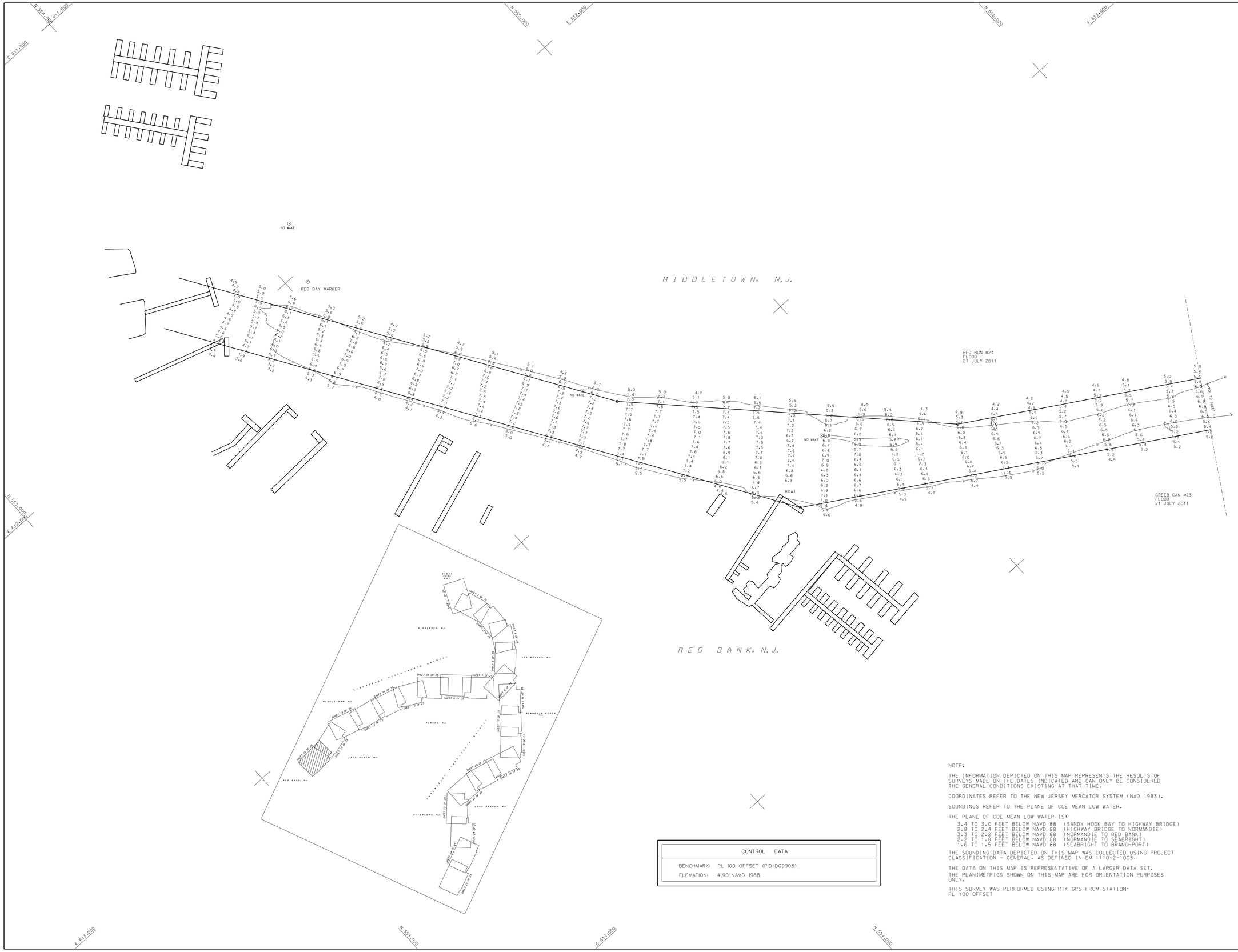
VH-114

SHEET 14 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 18-21, 24-25, 28-29 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14520

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MEAZ CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

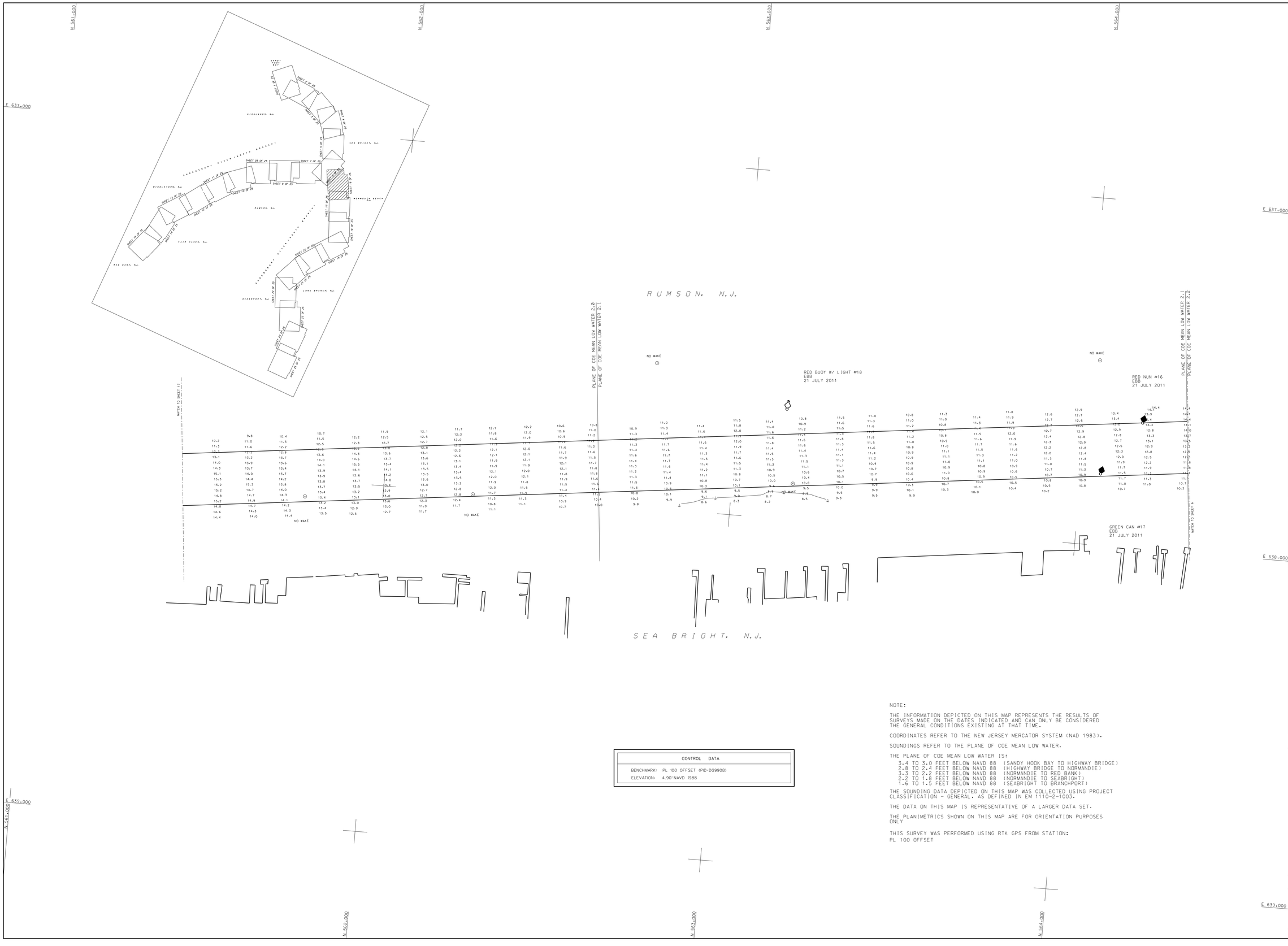
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-115

SHEET 15 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

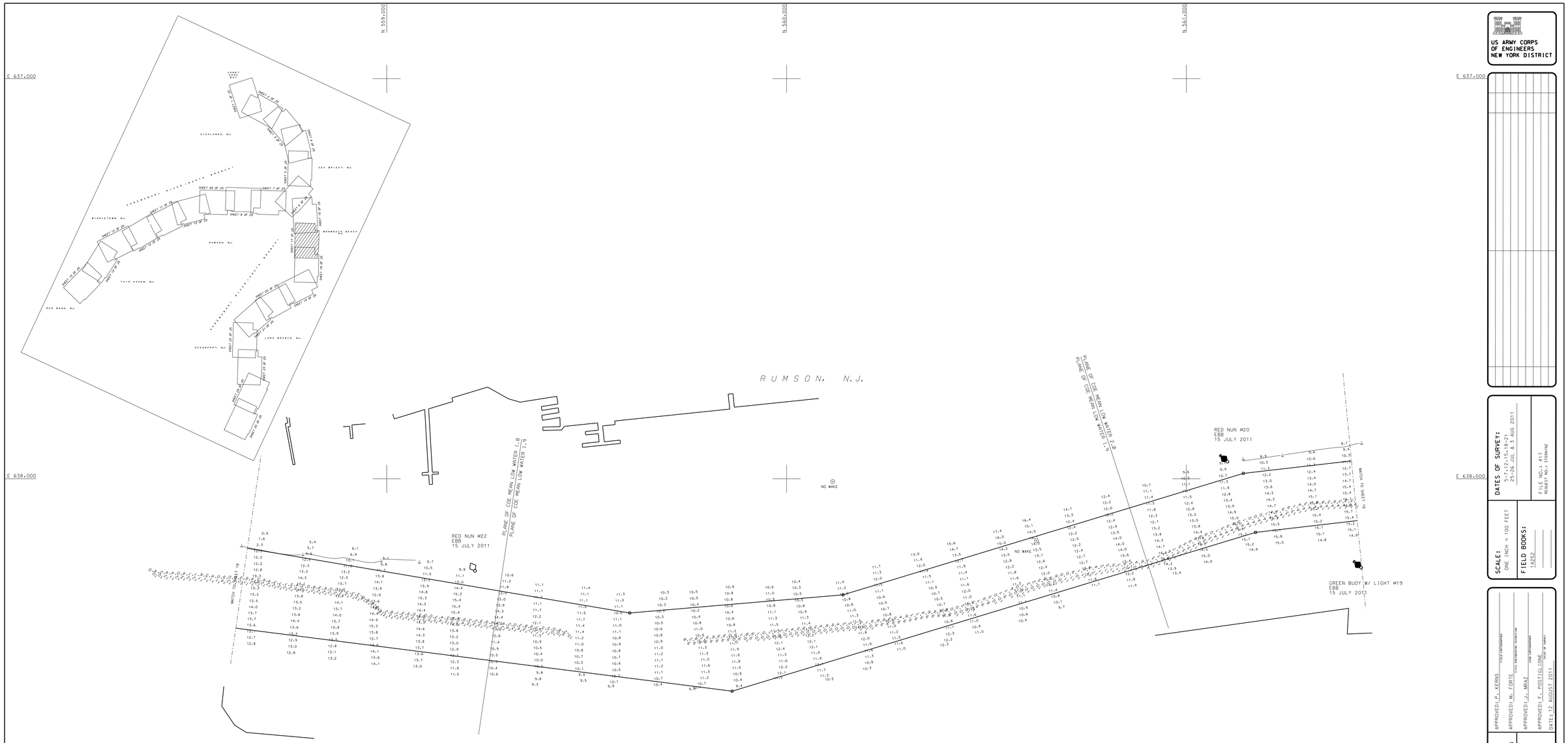
VH-116

SHEET 16 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA
BENCHMARK: PL 100 OFFSET (PID-DG9908)
ELEVATION: 4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

THE PLANE OF COE MEAN LOW WATER IS:

3.4 TO 3.0 FEET BELOW NAVD 88 (SANDY HOOK BAY TO HIGHWAY BRIDGE)
2.8 TO 2.4 FEET BELOW NAVD 88 (HIGHWAY BRIDGE TO NORMANDIE)
3.3 TO 2.2 FEET BELOW NAVD 88 (NORMANDIE TO RED BANK)
2.2 TO 1.8 FEET BELOW NAVD 88 (NORMANDIE TO SEABRIGHT)
1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION: PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
11, 12, 13, 14, 15 JUL & 3 AUG 2011
25, 26, JUL, 1, 2, 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
14592
14593

APPROVED: D. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MIRAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

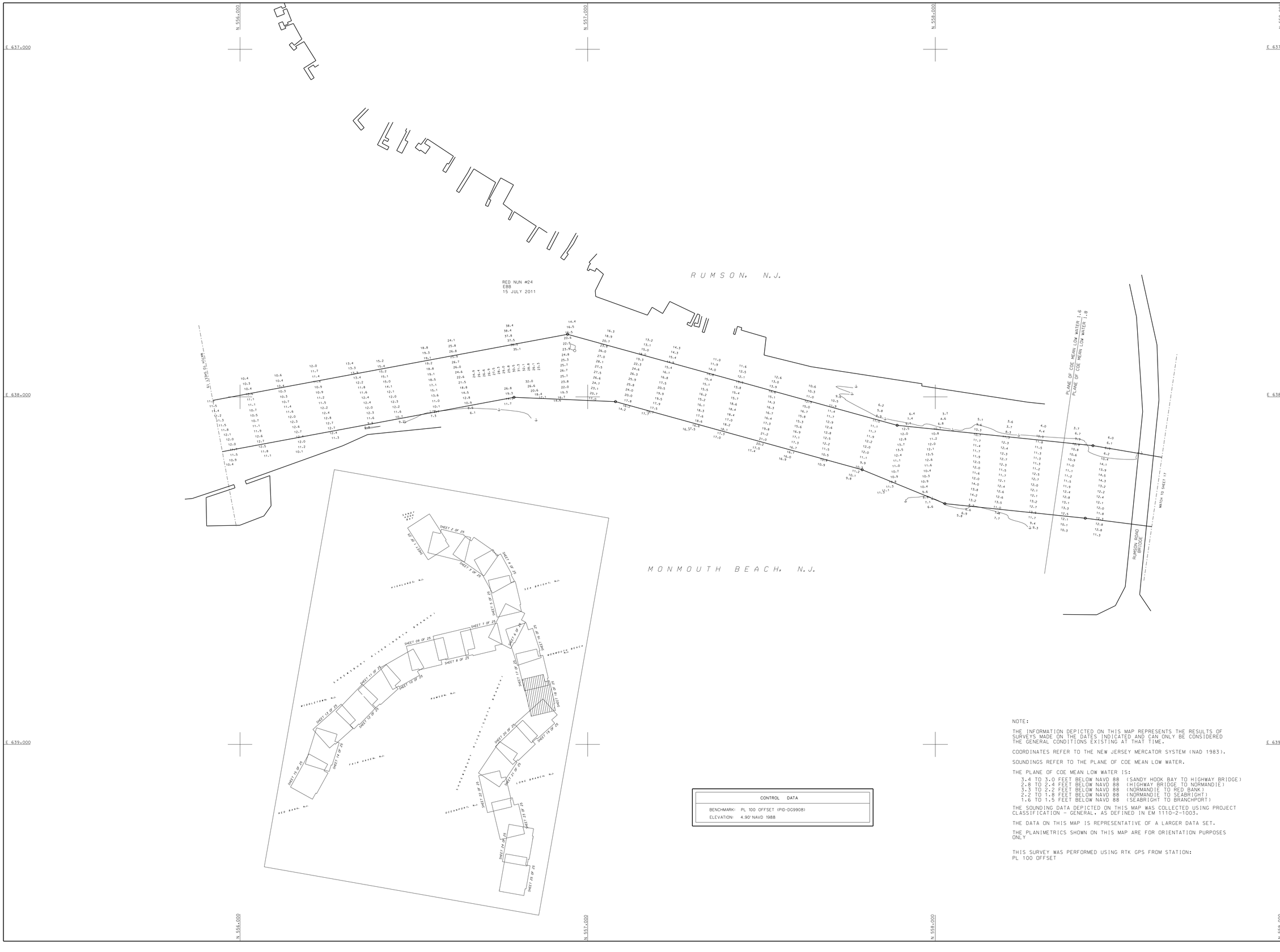
VH-117

SHEET 17 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21
25-26 JUL & 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ
LAND CARTOGRAPHER

APPROVED: F. POSTIGLIONE
CHIEF OF SURVEY

DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

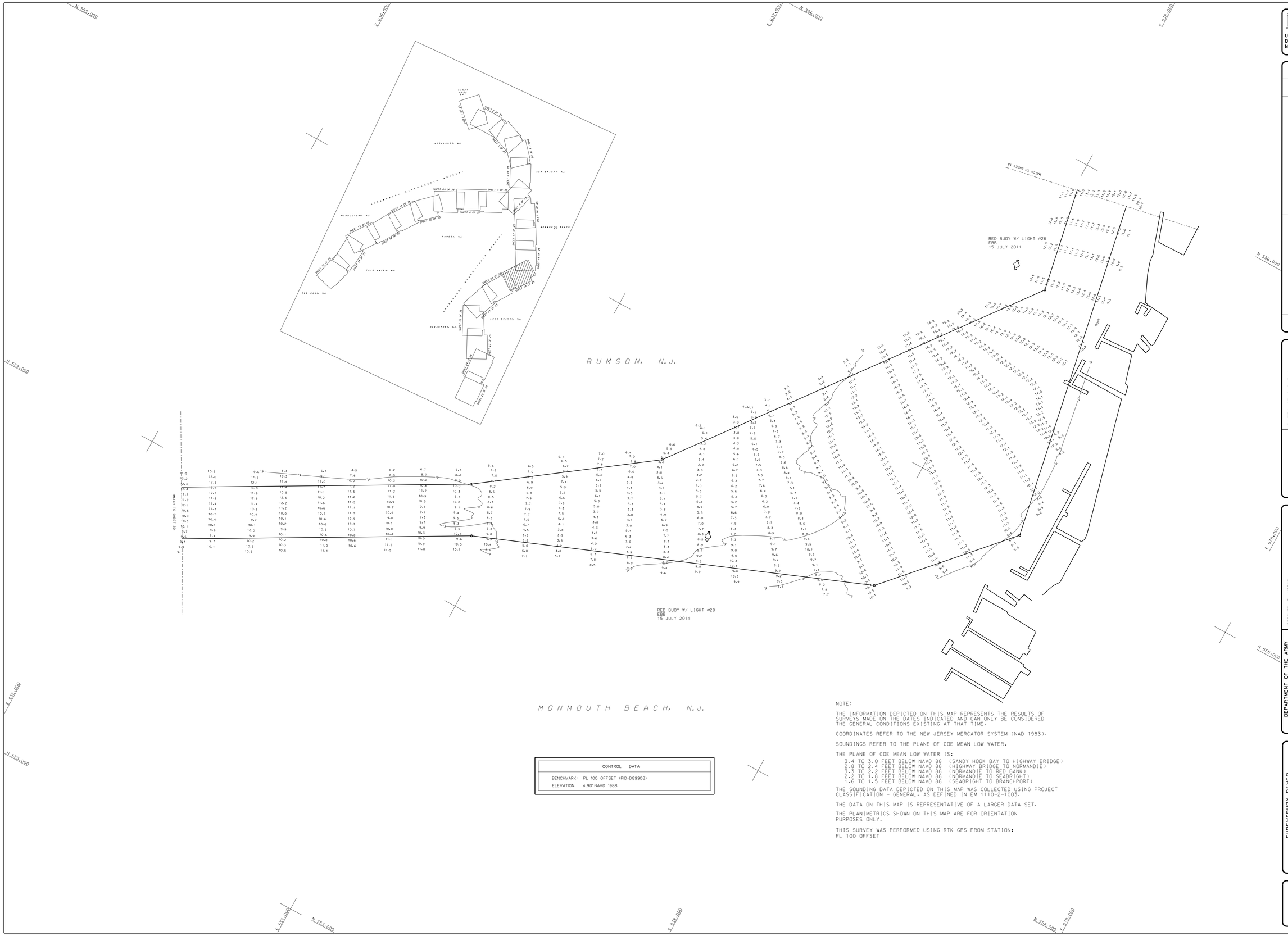
SHREWSBURY RIVER
NEW JERSEY

CONDITION SURVEY

VH-118

SHEET 18 OF 25

417
3709N/N2



CONTROL DATA
BENCHMARK: PL 100 OFFSET (PID-DG9908)
ELEVATION: 4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7, 12, 15, 18-21 JUL
& 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

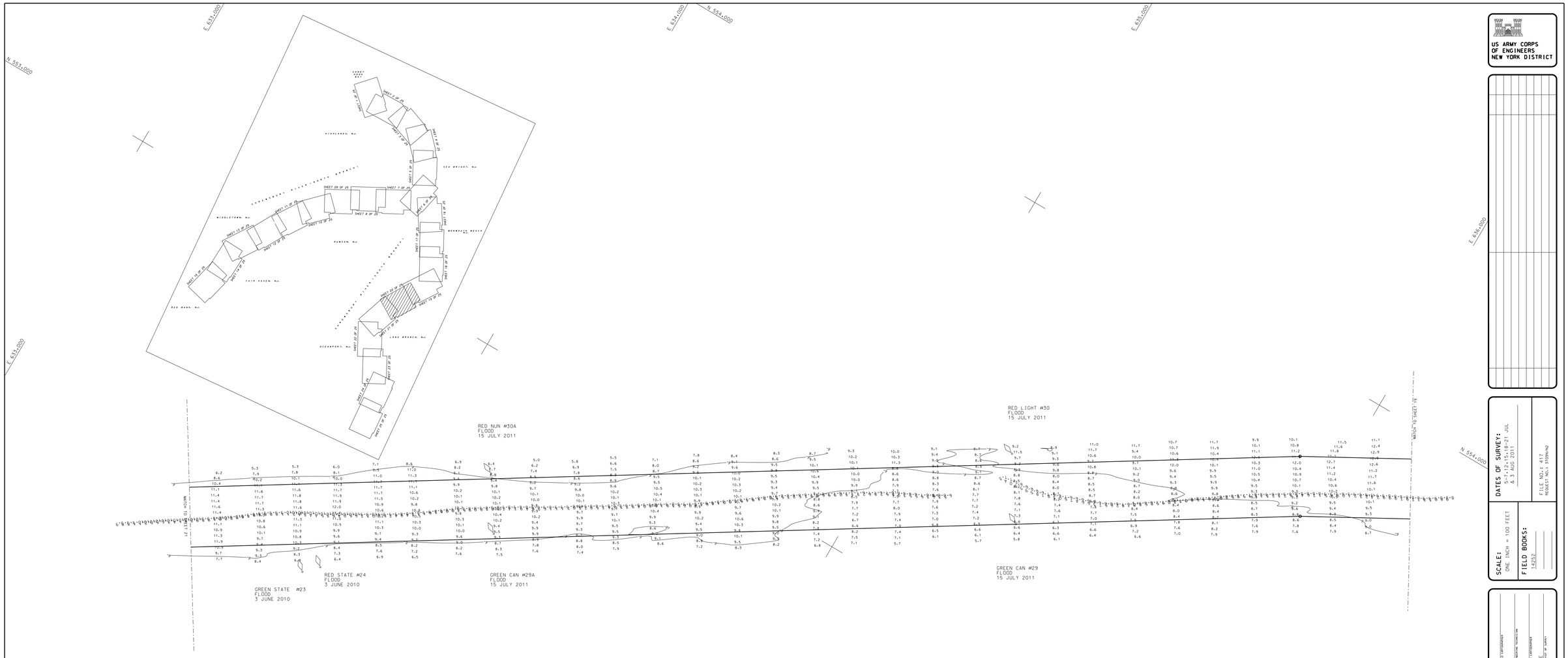
VH-119

SHEET 19 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5 TO 12, 15-18, 21-21 JUL
3, 5 AND 25 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14,634

APPROVED: P. KERNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ LINE CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENWA-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

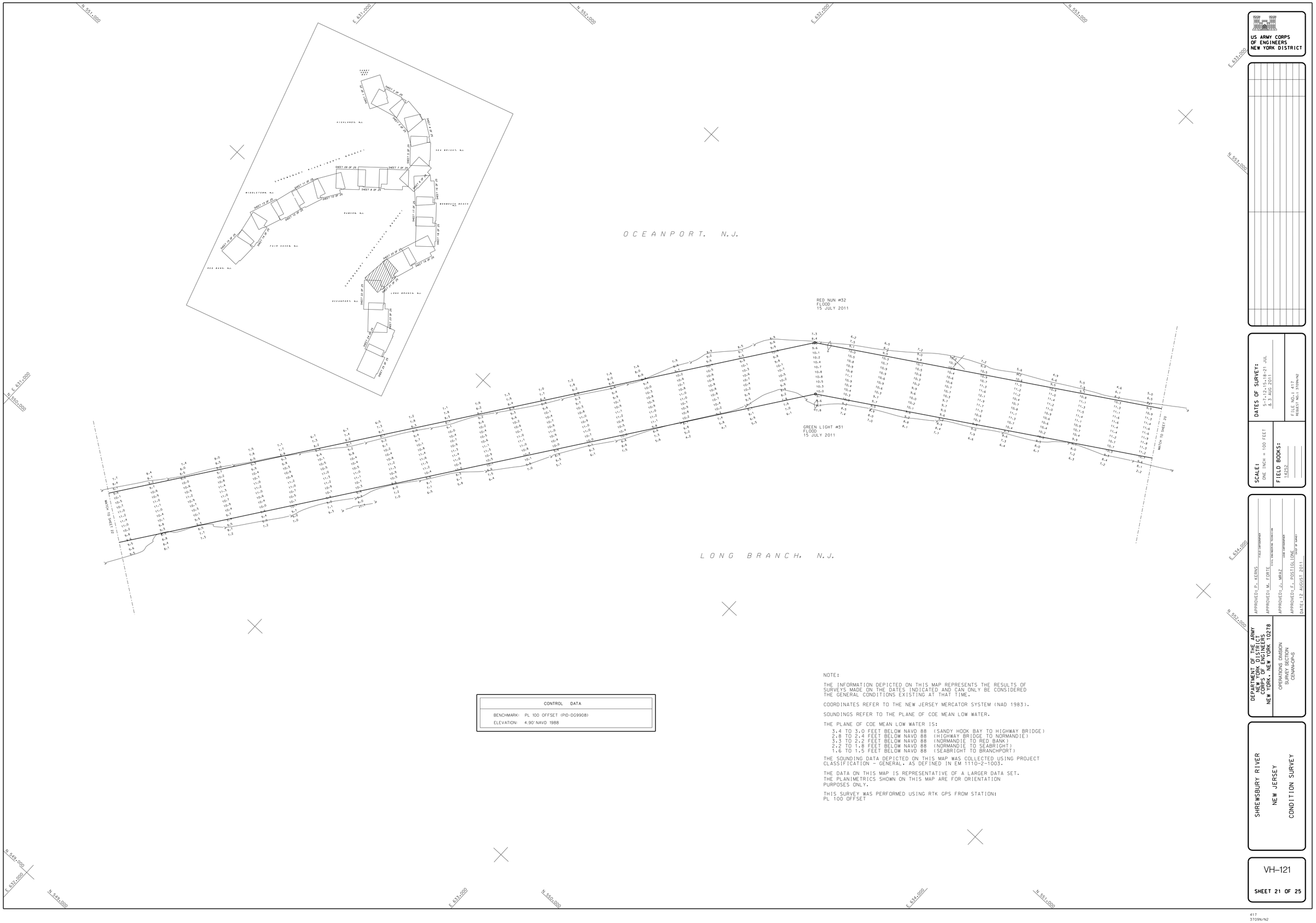
VH–120

SHEET 20 OF 25

417
3709N/N2

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

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2.2 TO 1.8 FEET BELOW NAVD 88 (NORMANDIE TO SEABRIGHT)
1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET. THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21 JUL
& 3 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

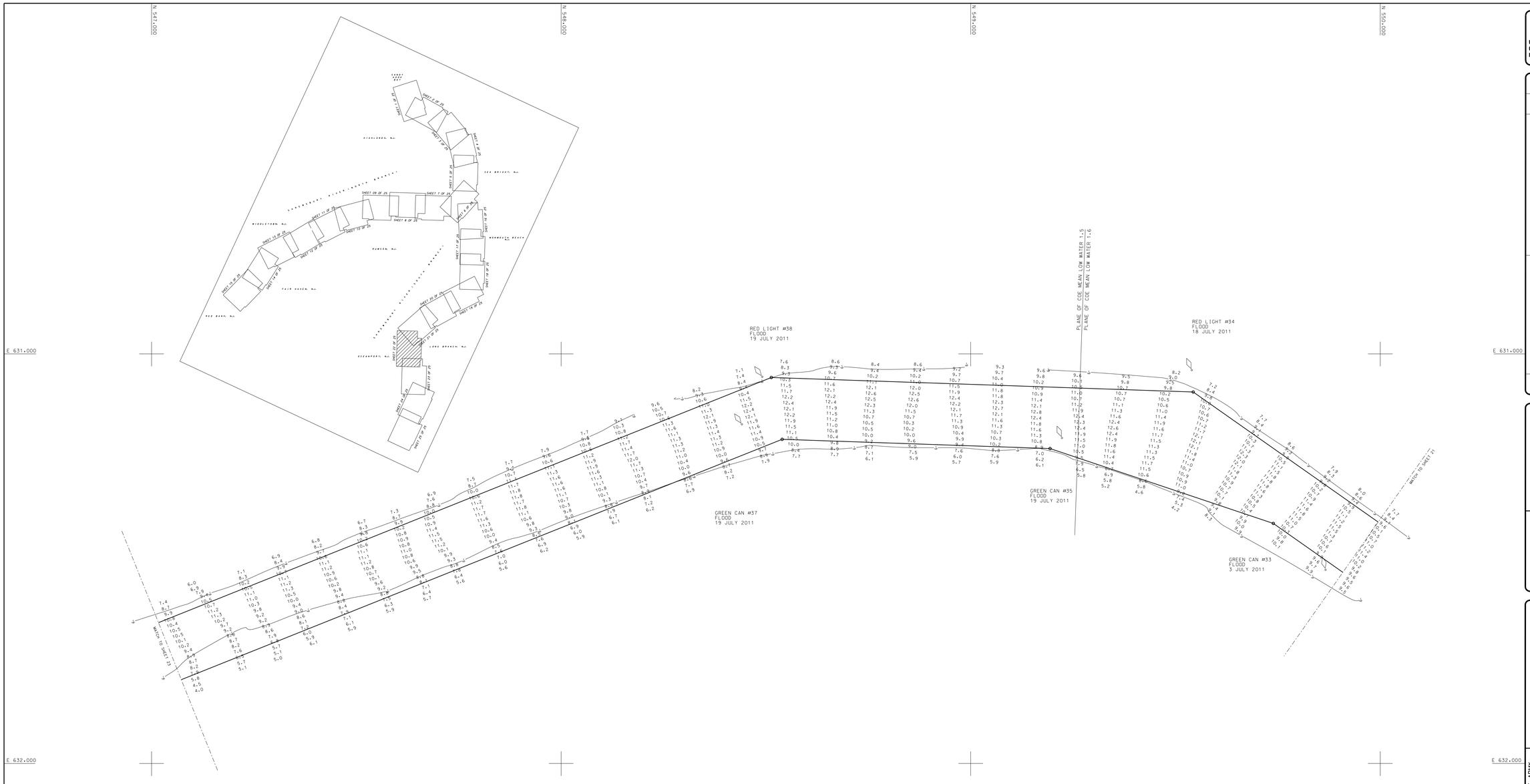
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-121

SHEET 21 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

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1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:

PL 100 OFFSET

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
5-7,12,15,18-21 JUL
3,5 AUG 2011

FILE NO.: 417
PROJECT NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14262

APPROVED: P. KERNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — TIDE CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER

NEW JERSEY

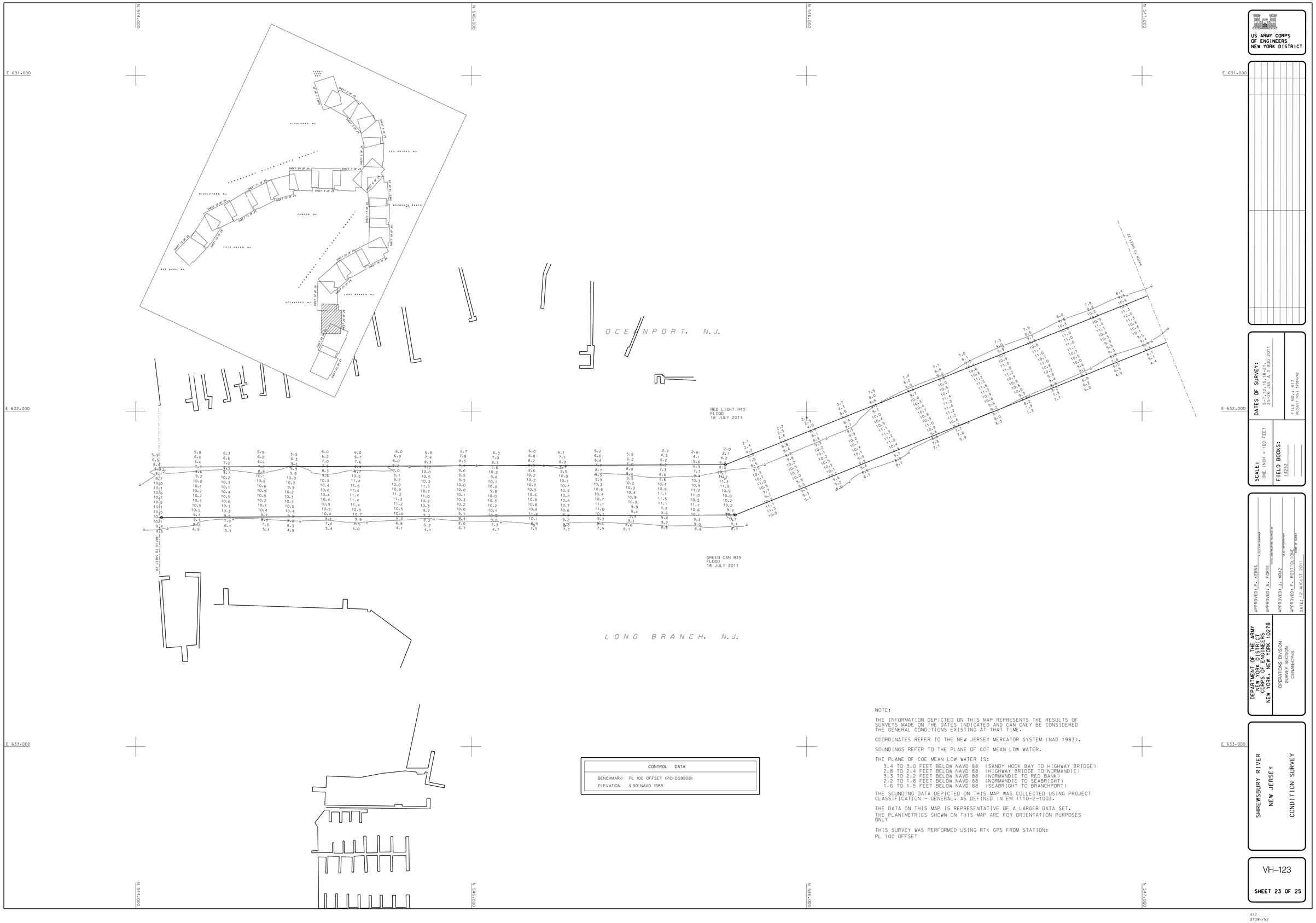
CONDITION SURVEY

VH-122

SHEET 22 OF 25

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG990B)
ELEVATION:	4.90' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983).

SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

THE PLANE OF COE MEAN LOW WATER IS:

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1.6 TO 1.5 FEET BELOW NAVD 88 (SEABRIGHT TO BRANCHPORT)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION - GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP IS REPRESENTATIVE OF A LARGER DATA SET.

THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
25-26, 28, 18-21
25-26 JUL, 6-8 AUG 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14526
14527

APPROVED: P. KERNS FIELD SURVEYING
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MEAZ CHIEF SURVEYING
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

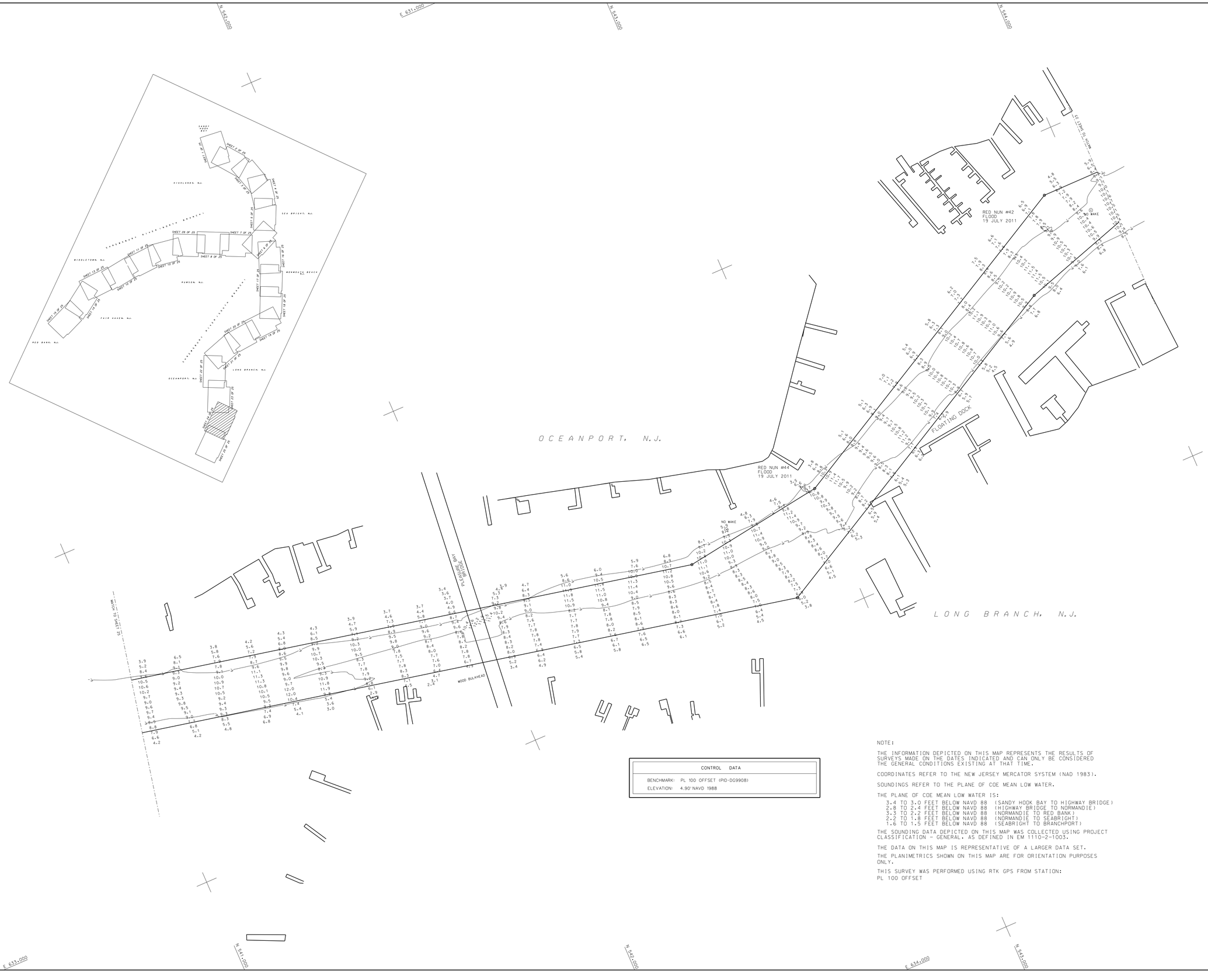
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-123

SHEET 23 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:
PL 100 OFFSET

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
25,26 JUL 2011

FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14252

APPROVED: P. KERNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ
LEAD CARTOGRAPHER

APPROVED: F. POSTIGLIONE
CHIEF OF SURVEY

DATE: 12 AUGUST 2011

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

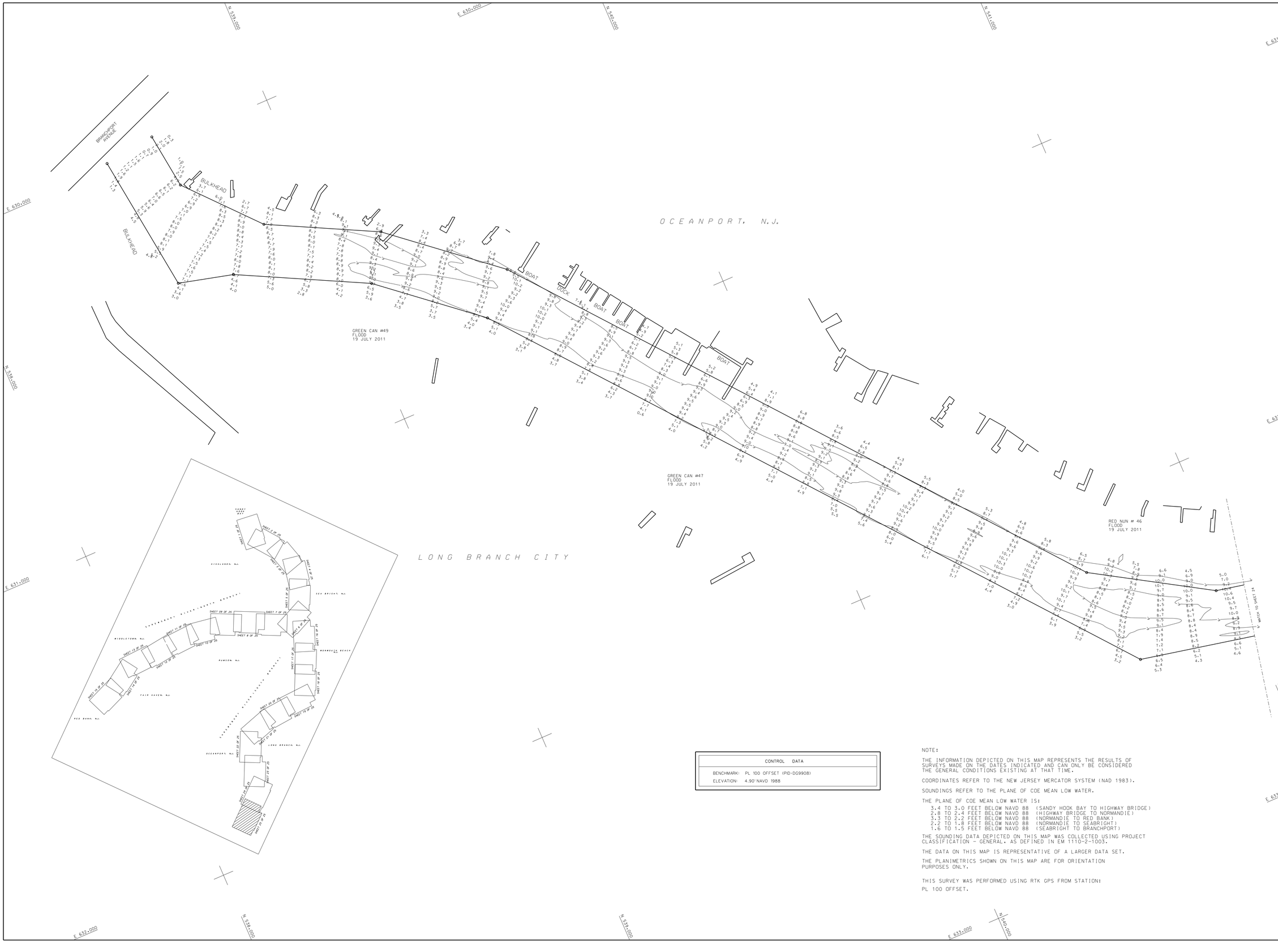
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-124

SHEET 24 OF 25

417
3709N/N2



CONTROL DATA	
BENCHMARK:	PL 100 OFFSET (PID-DG9908)
ELEVATION:	4.90' NAVD 1988

NOTE:

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THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION:

PL 100 OFFSET.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 25-26 JUL & 3 AUG 2011
FILE NO.: 417
REQUEST NO.: 3709N/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14252

APPROVED: P. KEENS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LAND CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 12 AUGUST 2011

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SHREWSBURY RIVER
NEW JERSEY
CONDITION SURVEY

VH-125

SHEET 25 OF 25

417
3709N/N2