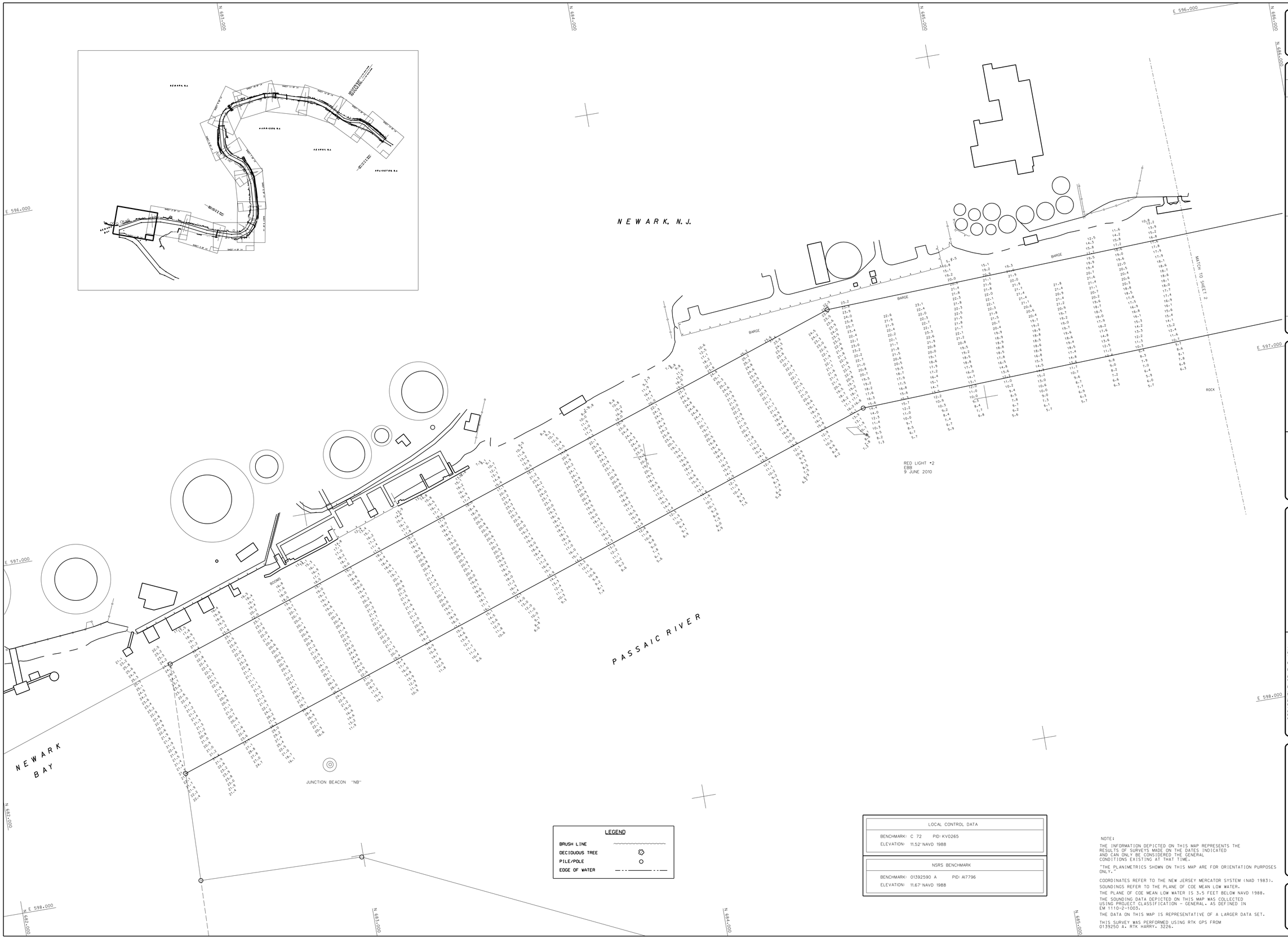
CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 01392590 A	PID: AI7796
ELEVATION: 11.67' 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.

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

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 3.5 FEET BELOW NAVD 1988.

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.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM 0139250 A, RTK HARRY, 3226.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14260, 14270

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

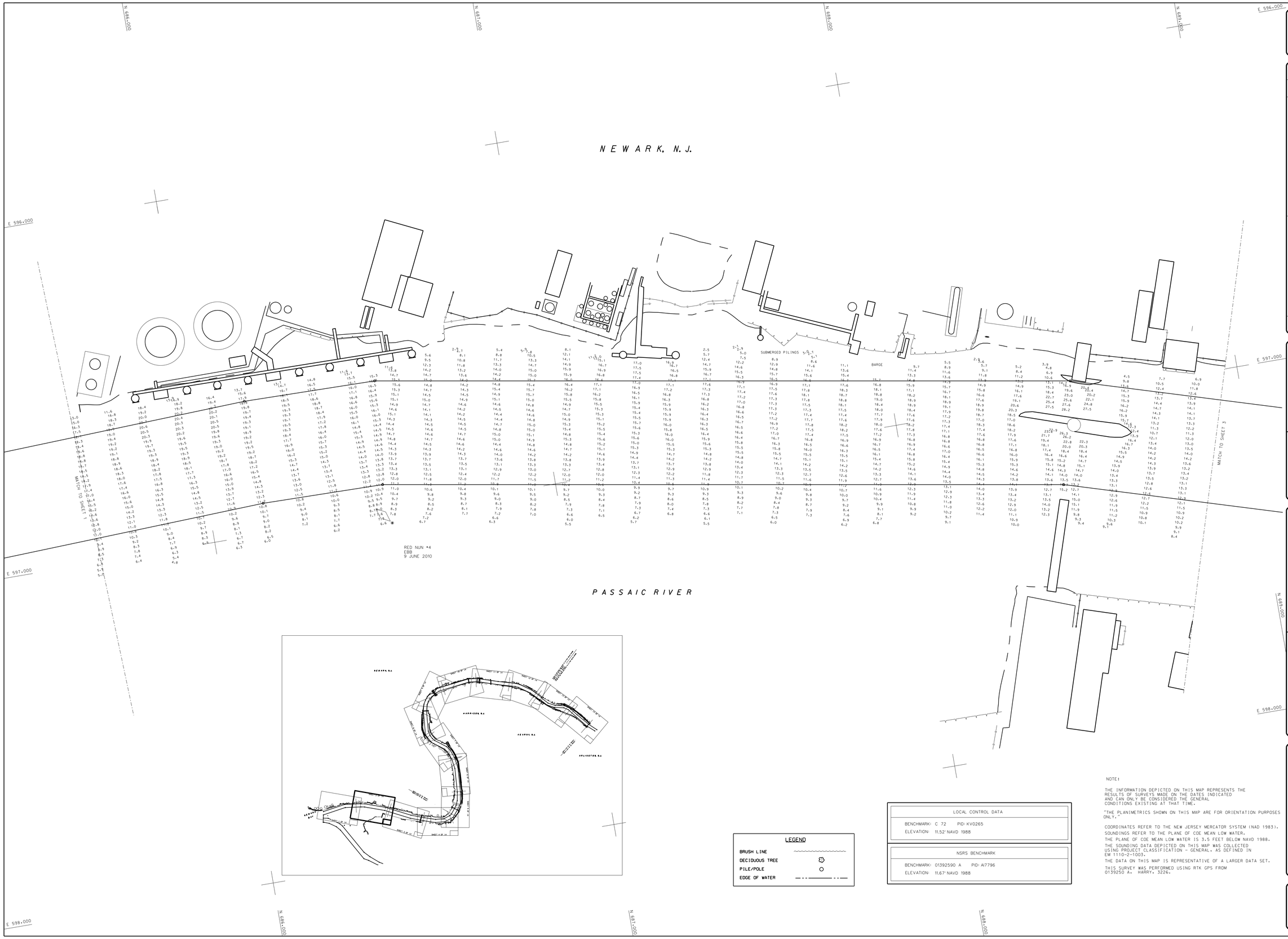
VH-101

SHEET 1 OF 14

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK

BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

NOTE:

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THIS SURVEY WAS PERFORMED USING RTK GPS FROM 0139250 A. HARRY, 3226.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
9 & 10, 15-18 JUNE 2010 &
16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

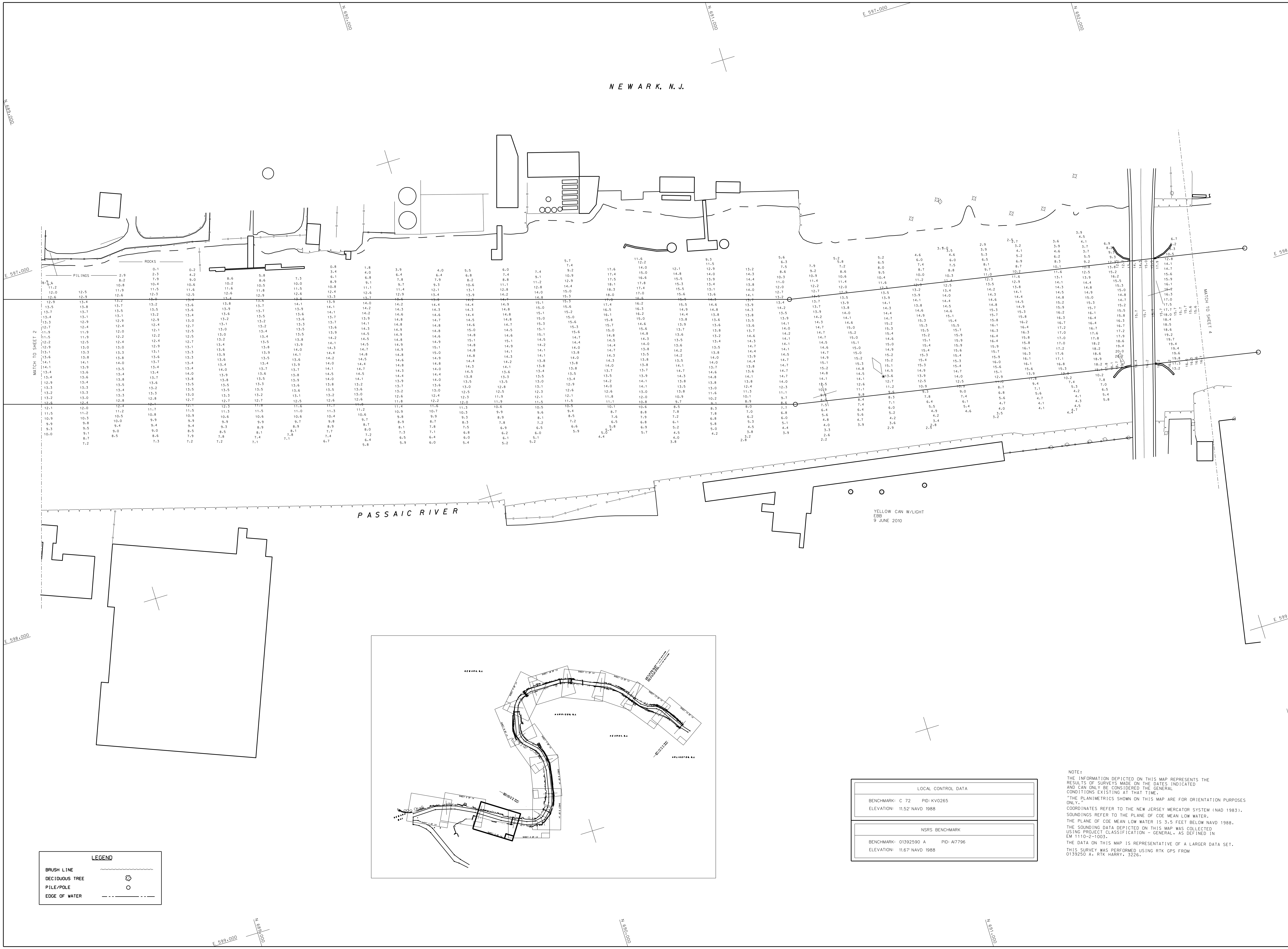
PASSAIC RIVER

CONDITION SURVEY

VH-102

SHEET 2 OF 14

916
3530A



LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 01392590 A	PID: AI7796
ELEVATION: 11.67' NAVD 1988	

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916

REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ — LEAD CARTOGRAPHER

APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY

DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

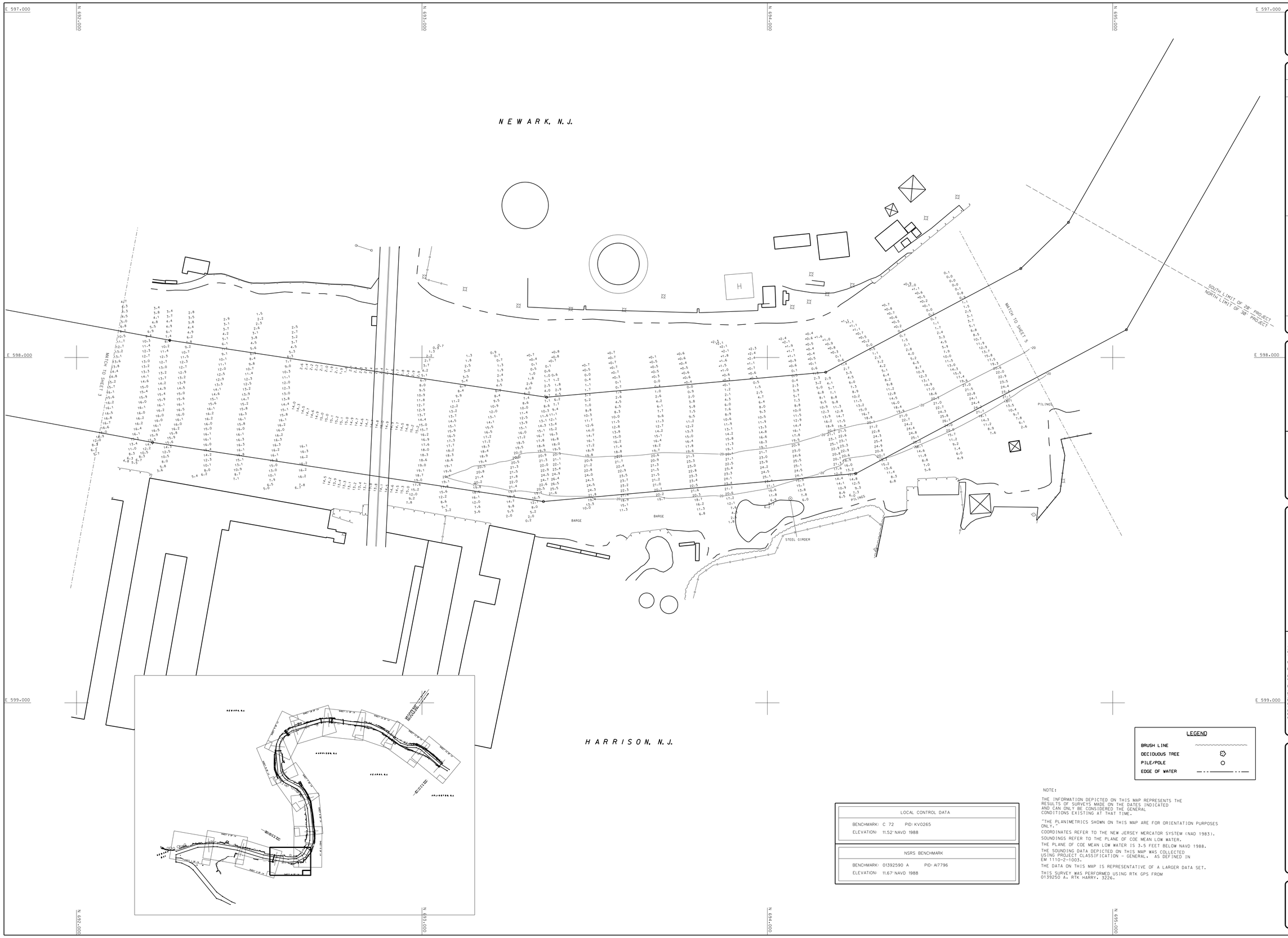
CONDITION SURVEY

VH-103

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
9 & 10, 15-18 JUNE 2010 &
16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

VH-104

SHEET 4 OF 14

LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK

BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

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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 3.5 FEET BELOW NAVD 1988.

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

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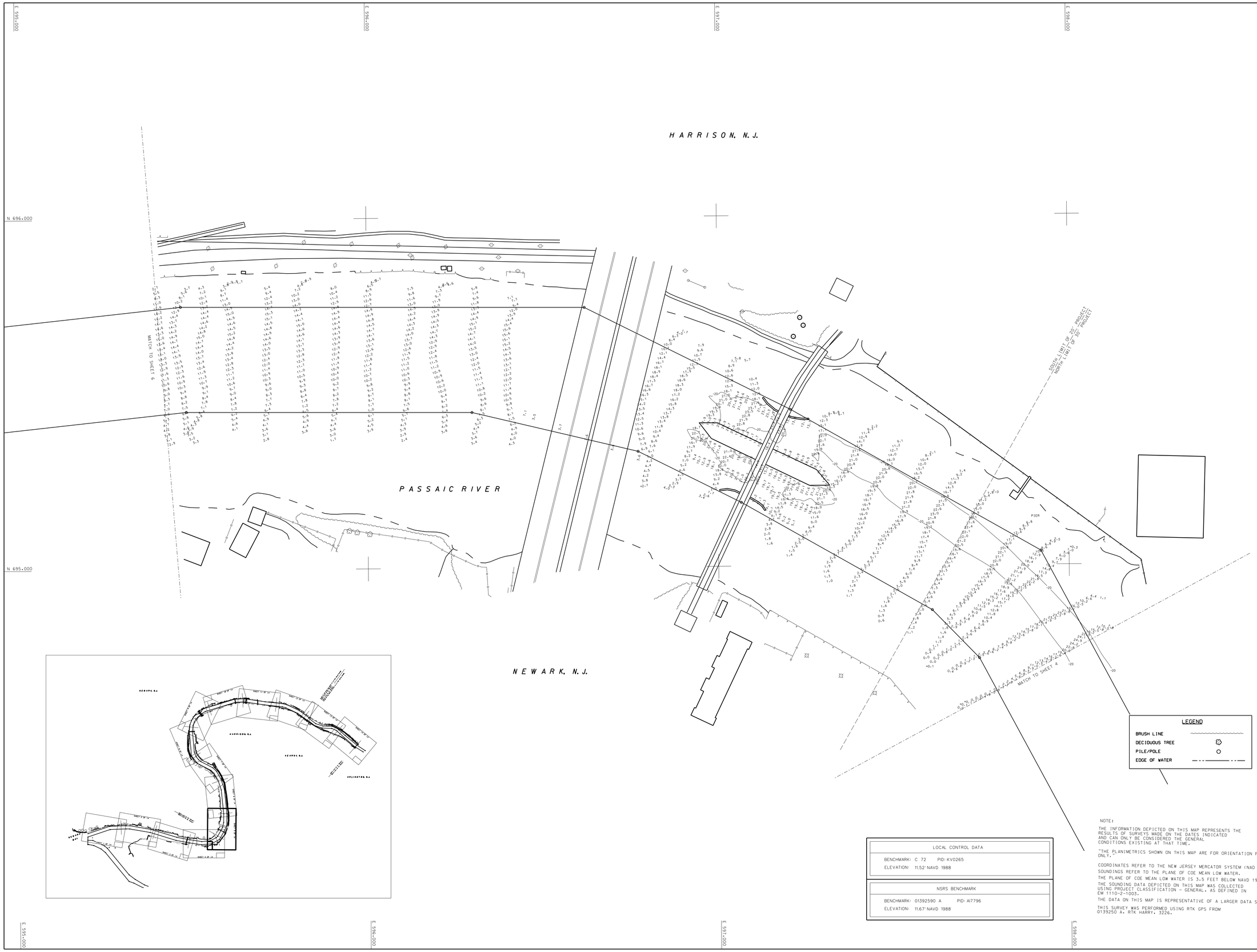
THIS SURVEY WAS PERFORMED USING RTK GPS FROM 0139250 A. RTK HARRY. 3226.

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 0139259O A	PID: AI7796
ELEVATION: 11.67' NAVD 1988	

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1450A, 1424

APPROVED: D. SHEN
FIELD CARTOGRAPHER
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ
CADD CARTOGRAPHER
APPROVED: F. POSTIGLIONE
CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

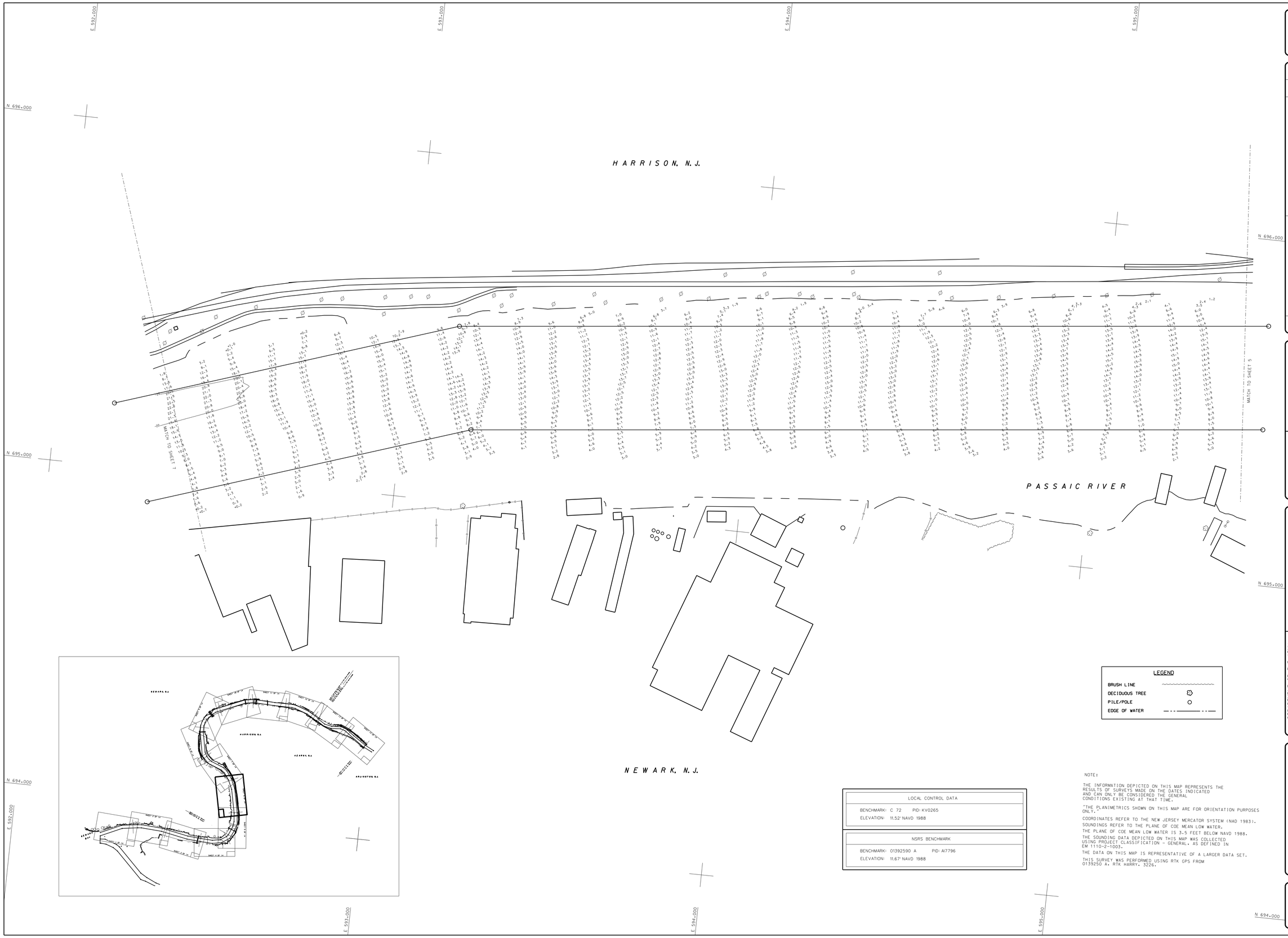
VH-105

SHEET 5 OF 14

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK

BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

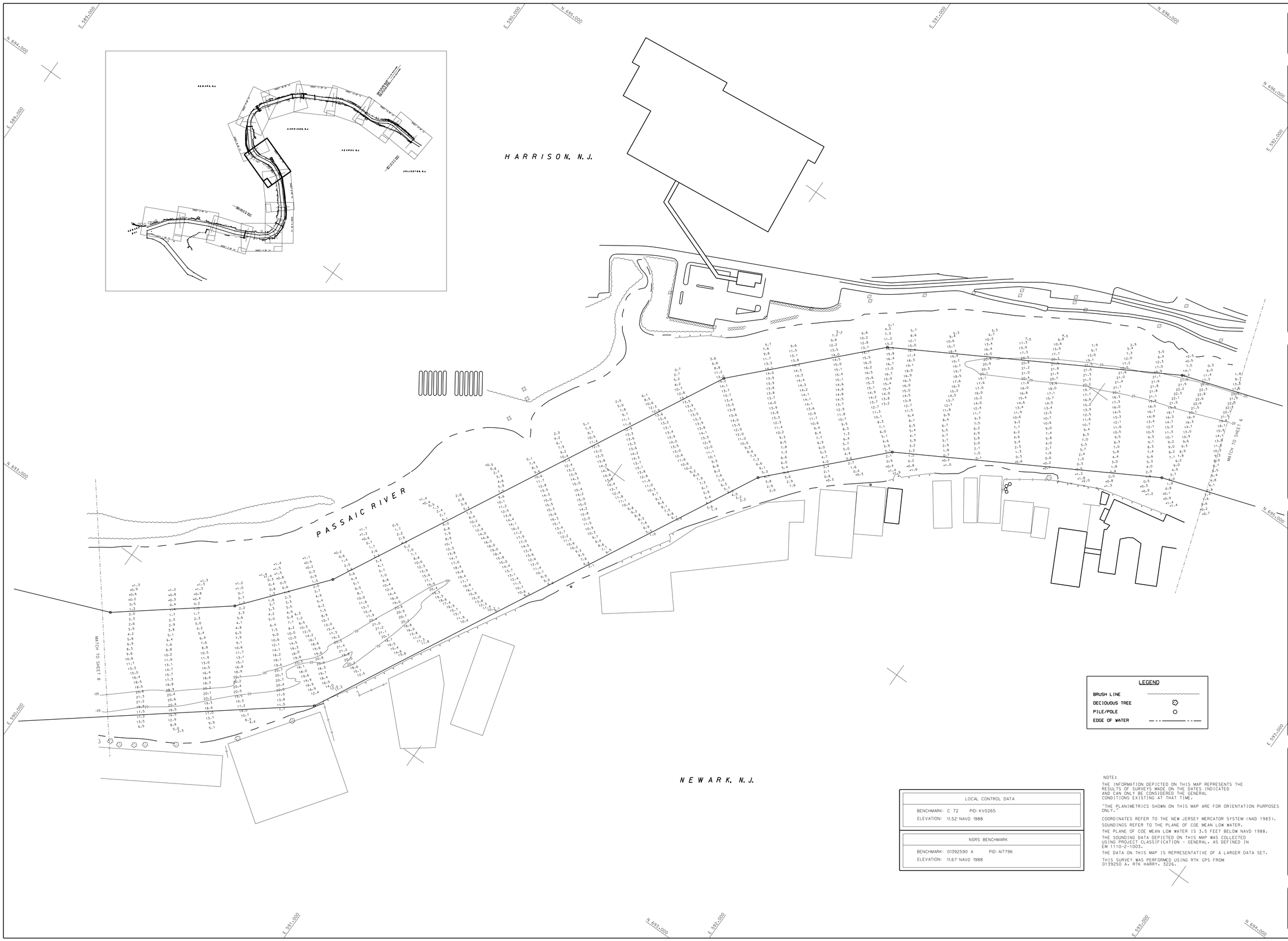
VH-106

SHEET 6 OF 14

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 01392590 A	PID: AI7796
ELEVATION: 11.67' NAVD 1988	

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 3 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: VERON. 1824

APPROVED: D. SMITH FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

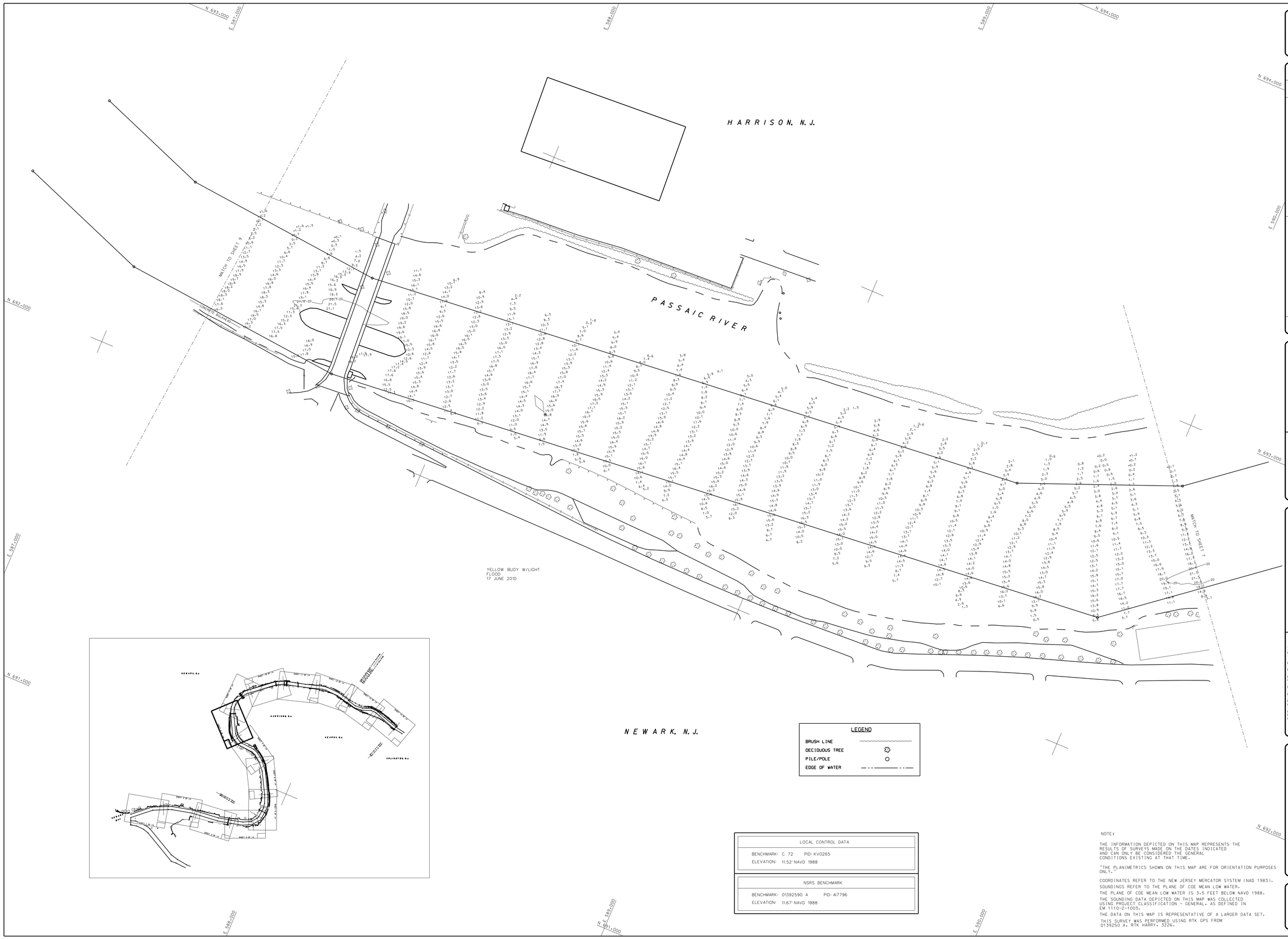
VH-107

SHEET 7 OF 14

916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK

BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
9 & 10, 15-18 JUNE 2010 &
16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
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DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

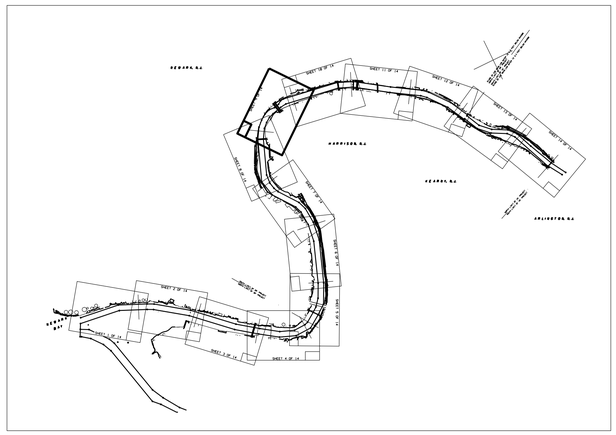
PASSAIC RIVER

CONDITION SURVEY

VH-108

SHEET 8 OF 14

916
3530A



LEGEND	
BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA
BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK
BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14260, 14274

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MIRAZ — CHIEF CARTOGRAPHER
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DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

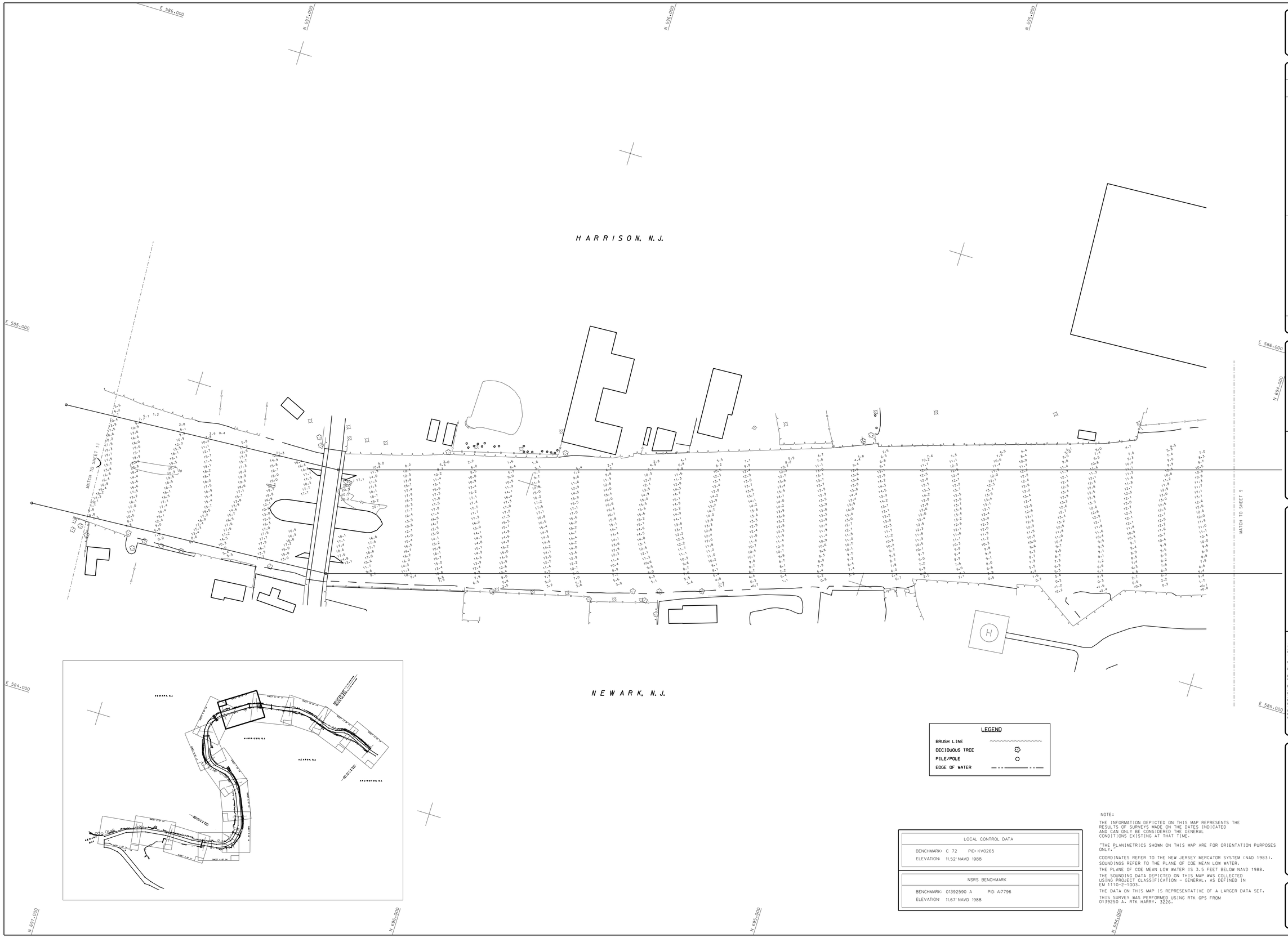
PASSAIC RIVER

CONDITION SURVEY

VH-109

SHEET 9 OF 14

916
3530A



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

NSRS BENCHMARK

BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' NAVD 1988

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
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NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

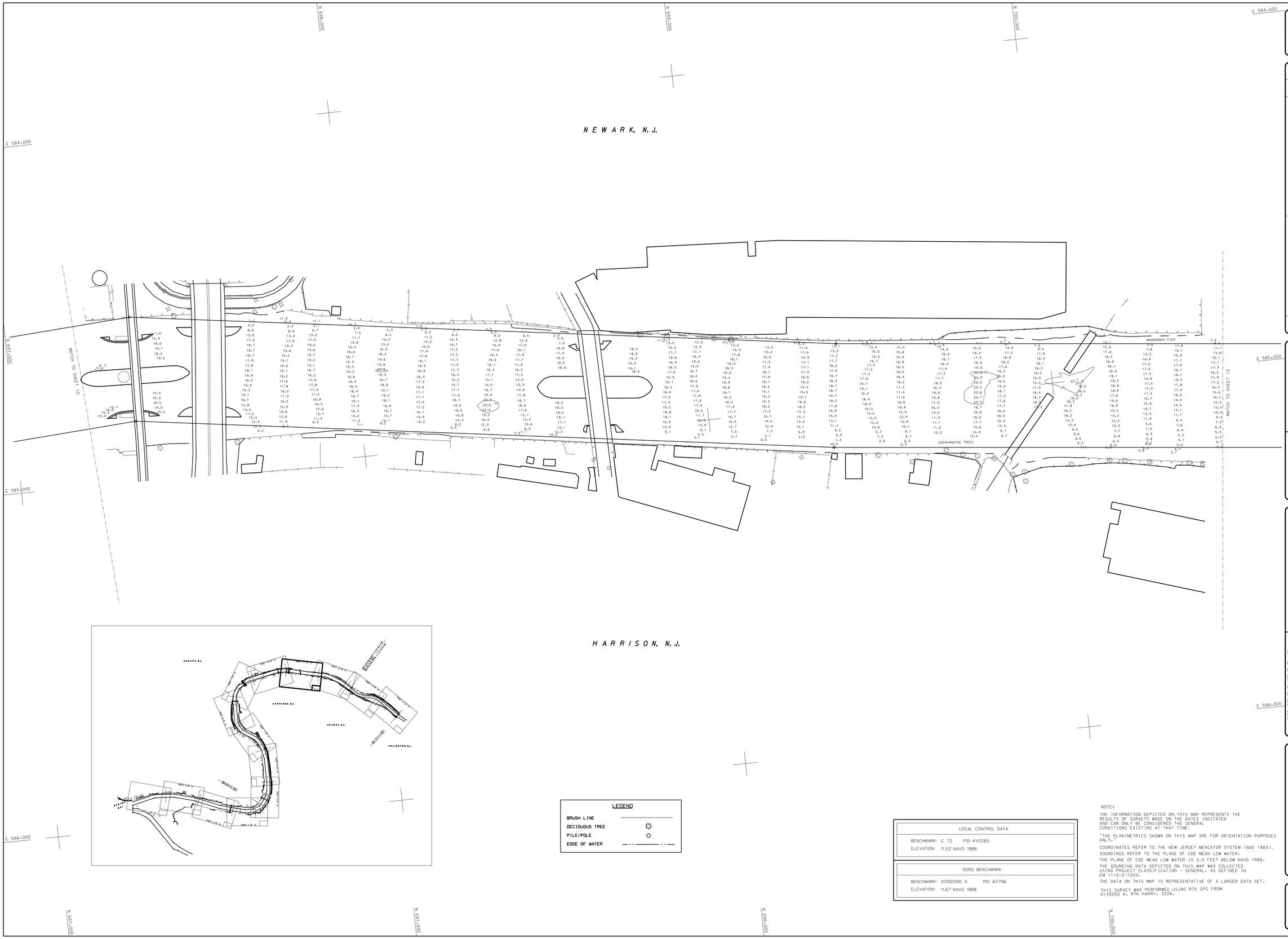
VH-110

SHEET 10 OF 14

916
3530A

CORPS OF ENGINEERS

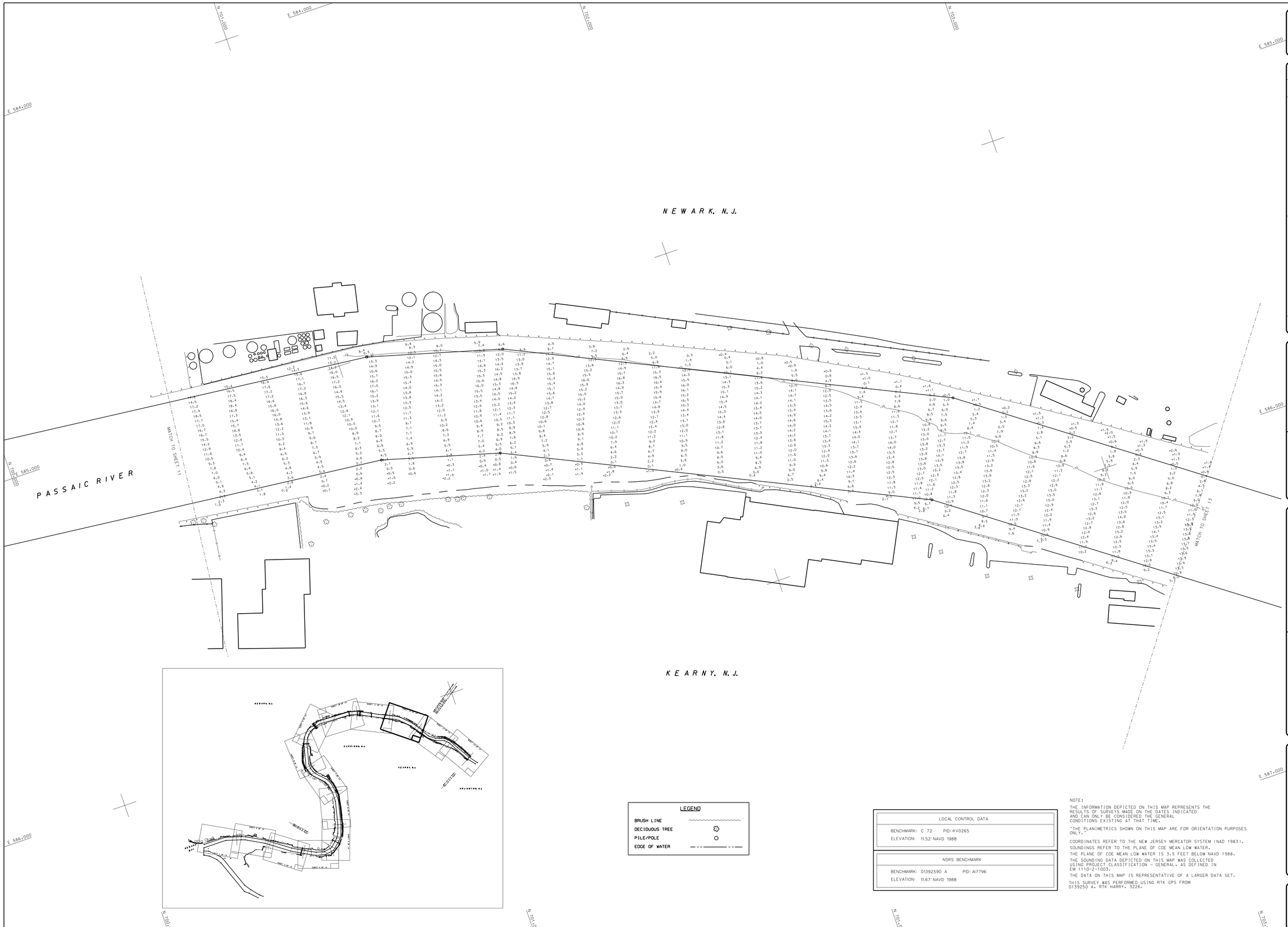
U. S. ARMY



916
3530A

CORPS OF ENGINEERS

U. S. ARMY



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA

BENCHMARK: C 72 PID: KV0265
ELEVATION: 11.52' NAVD 1988

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BENCHMARK: 01392590 A PID: AI7796
ELEVATION: 11.67' 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.

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

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 3.5 FEET BELOW NAVD 1988.

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.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM 0139250 A, RTK HARRY, 3226.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
9 & 10, 15-18 JUNE 2010 &
16 JULY 2010

FILE NO.: 916
REQUEST NO.: 3530A

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

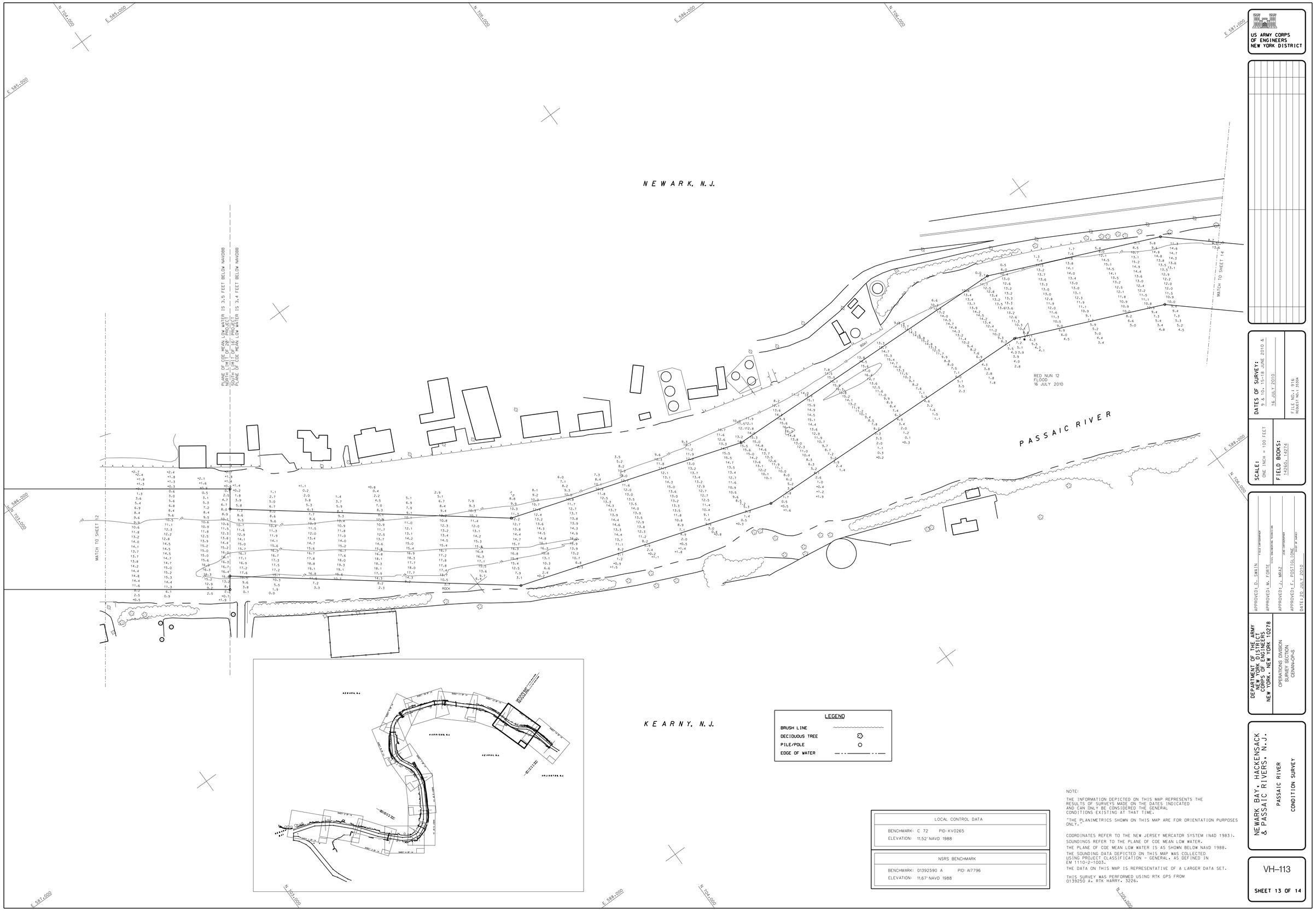
PASSAIC RIVER

CONDITION SURVEY

VH-112

SHEET 12 OF 14

916
3530A



LEGEND

BRUSH LINE	
DECIDUOUS TREE	
PILE/POLE	
EDGE OF WATER	

LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 01392590 A	PID: AI7796
ELEVATION: 11.67' NAVD 1988	

NOTE:

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SOUNDINGS REFER TO THE PLANE OF COE MEAN LOW WATER.

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US ARMY CORPS OF ENGINEERS
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DATES OF SURVEY:
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FILE NO.: 916
REQUEST NO.: 3530A

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14260, 14274

APPROVED: D. SWAIN — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 20 JULY 2010

DEPARTMENT OF THE ARMY
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NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

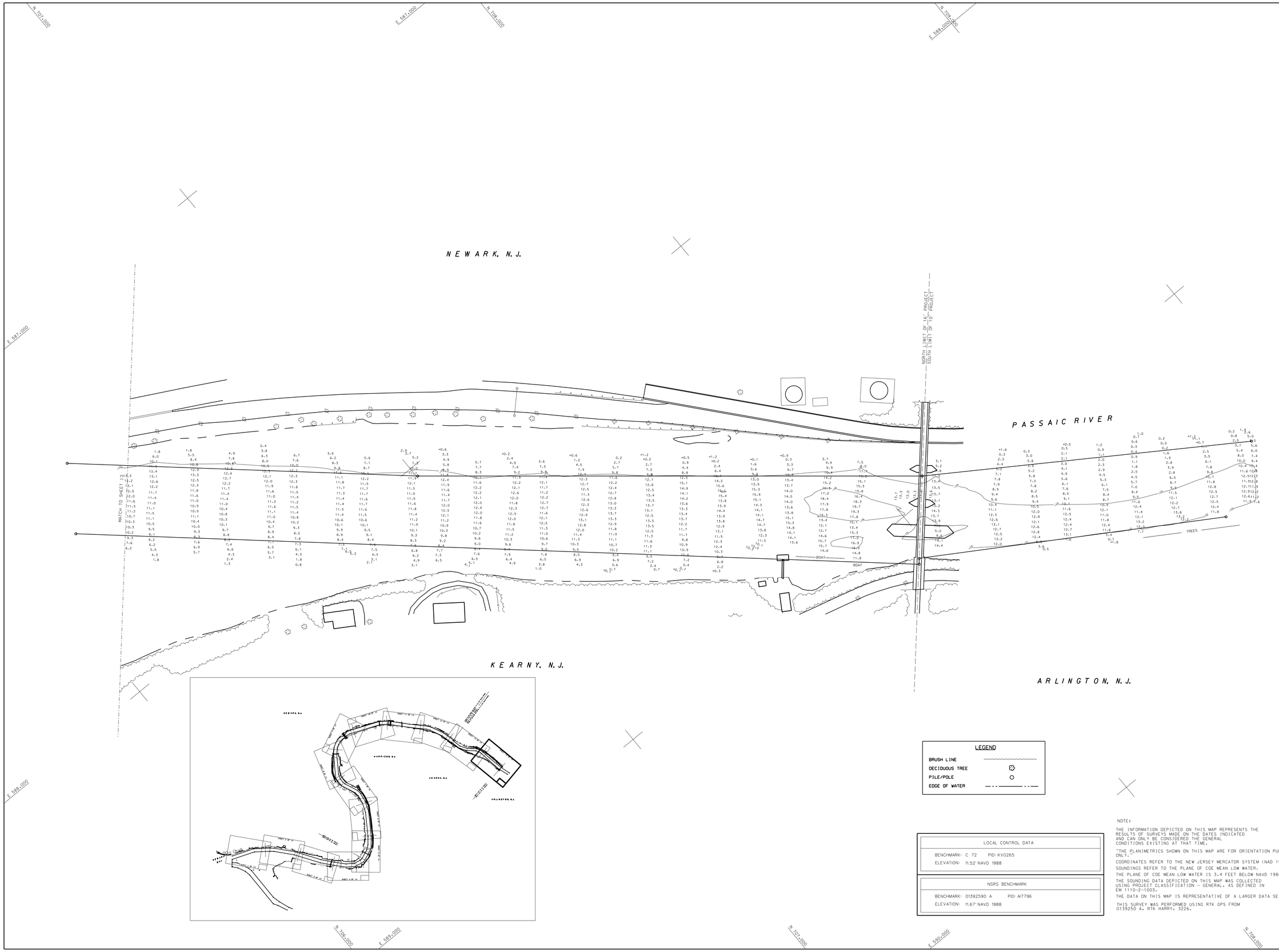
PASSAIC RIVER

CONDITION SURVEY

VH-113

SHEET 13 OF 14

916
3530A



LOCAL CONTROL DATA	
BENCHMARK: C 72	PID: KV0265
ELEVATION: 11.52' NAVD 1988	

NSRS BENCHMARK	
BENCHMARK: 01392590 A	PID: AI7796
ELEVATION: 11.67' NAVD 1988	

NOTE:

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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 FEET BELOW NAVD 1988.

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

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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 9 & 10, 15-18 JUNE 2010 & 16 JULY 2010

FILE NO.: 916
REQUEST NO.:3530A

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14,806, 14,874

APPROVED: D. SHEAN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ
LEAD CARTOGRAPHER

APPROVED: F. POSTIGLIONE
CHIEF OF SURVEY

DATE: 20 JULY 2010

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OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.

PASSAIC RIVER

CONDITION SURVEY

VH-114

SHEET 14 OF 14

916
3530A