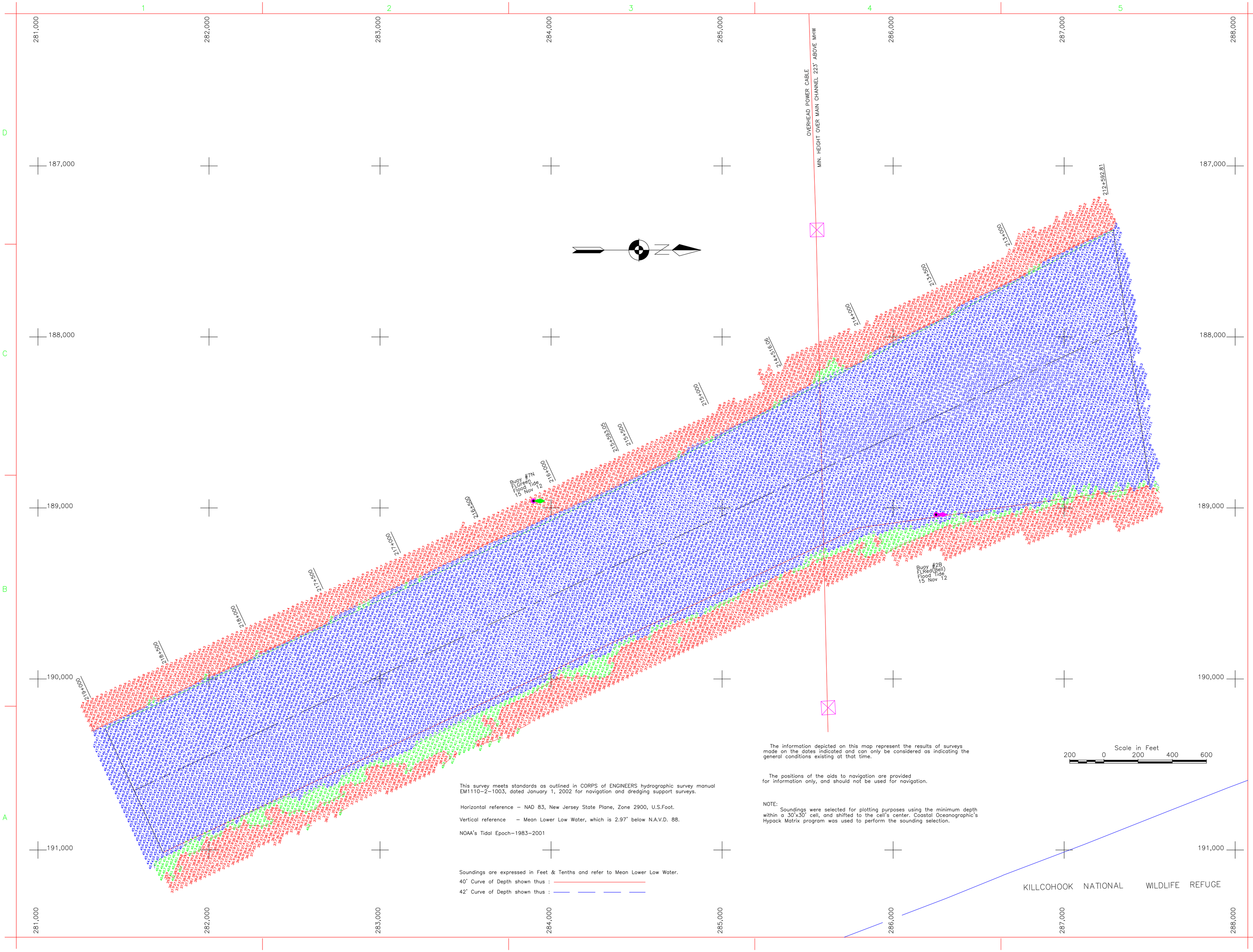


This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

Horizontal reference – NAD 83, New Jersey State Plane, Zone 2900, U.S.Foot.

Vertical reference – Mean Lower Low Water, which is 2.97' below N.A.V.D. 88.

NOAA's Tidal Epoch–1983–2001

Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.

40' Curve of Depth shown thus :

42' Curve of Depth shown thus :

The information depicted on this map represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

The positions of the aids to navigation are provided for information only, and should not be used for navigation.

NOTE:
Soundings were selected for plotting purposes using the minimum depth within a 30'x30' cell, and shifted to the cell's center. Coastal Oceanographic's Hypack Matrix program was used to perform the sounding selection.

Scale in Feet
200 0 200 400 600

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name: Delaware City
Submitted by: | File name: | Plot date: 11/20/2012 | Plot scale: 1in to 200 ft
Chief, Arch. Branch

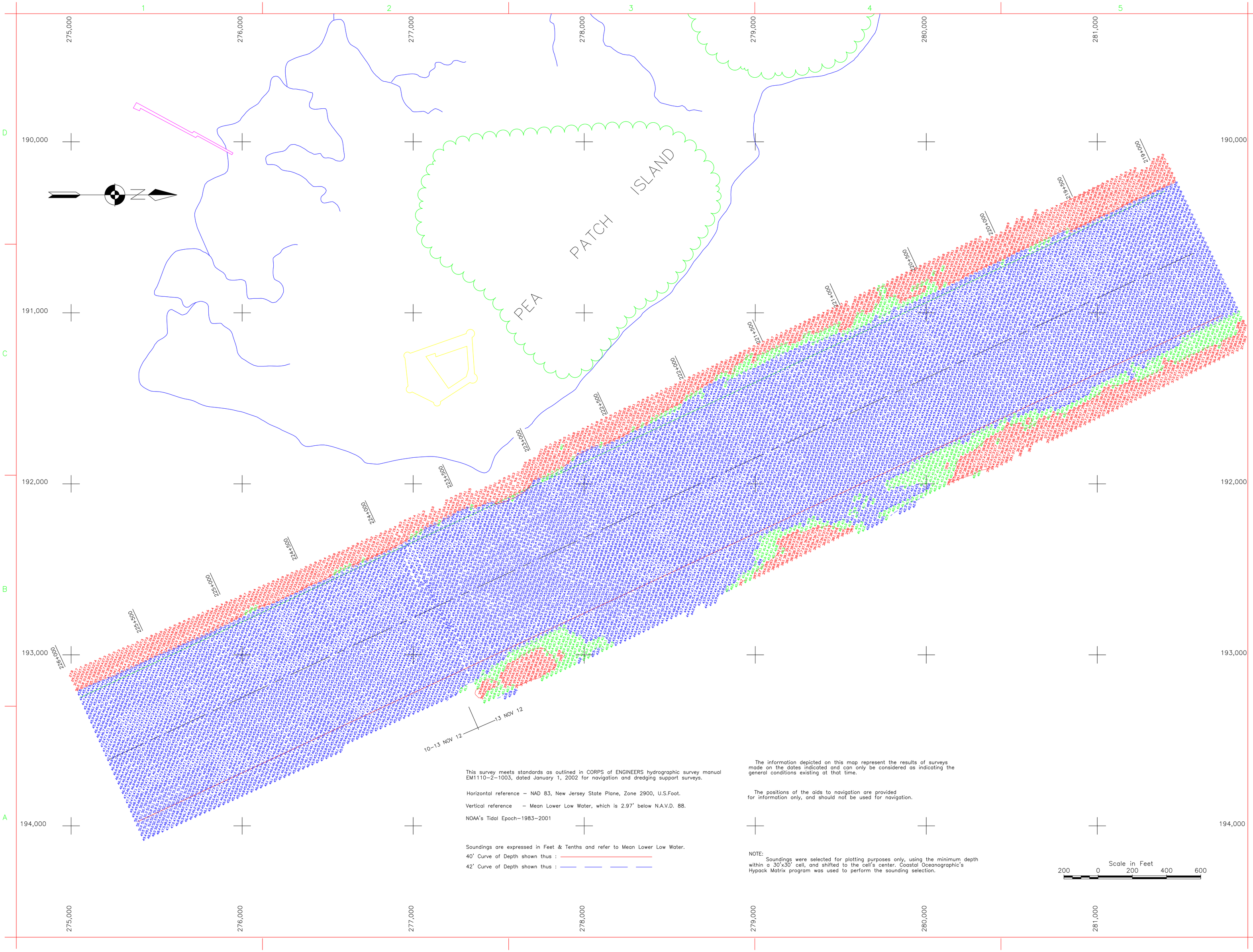
U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Groch | PLOTTED BY J.A.Caraballo | DRAWING NO. 63642
SURVEYED BY C.Etschman | DATE SURVEYED 15 Nov 12 | APPROVED
Chief, Arch. Branch

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION
NEW CASTLE RANGE
STA.212+592.81 TO STA.219+000

Sheet reference number:

Sheet 1 of 4



This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

Horizontal reference – NAD 83, New Jersey State Plane, Zone 2900, U.S.Foot.

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US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

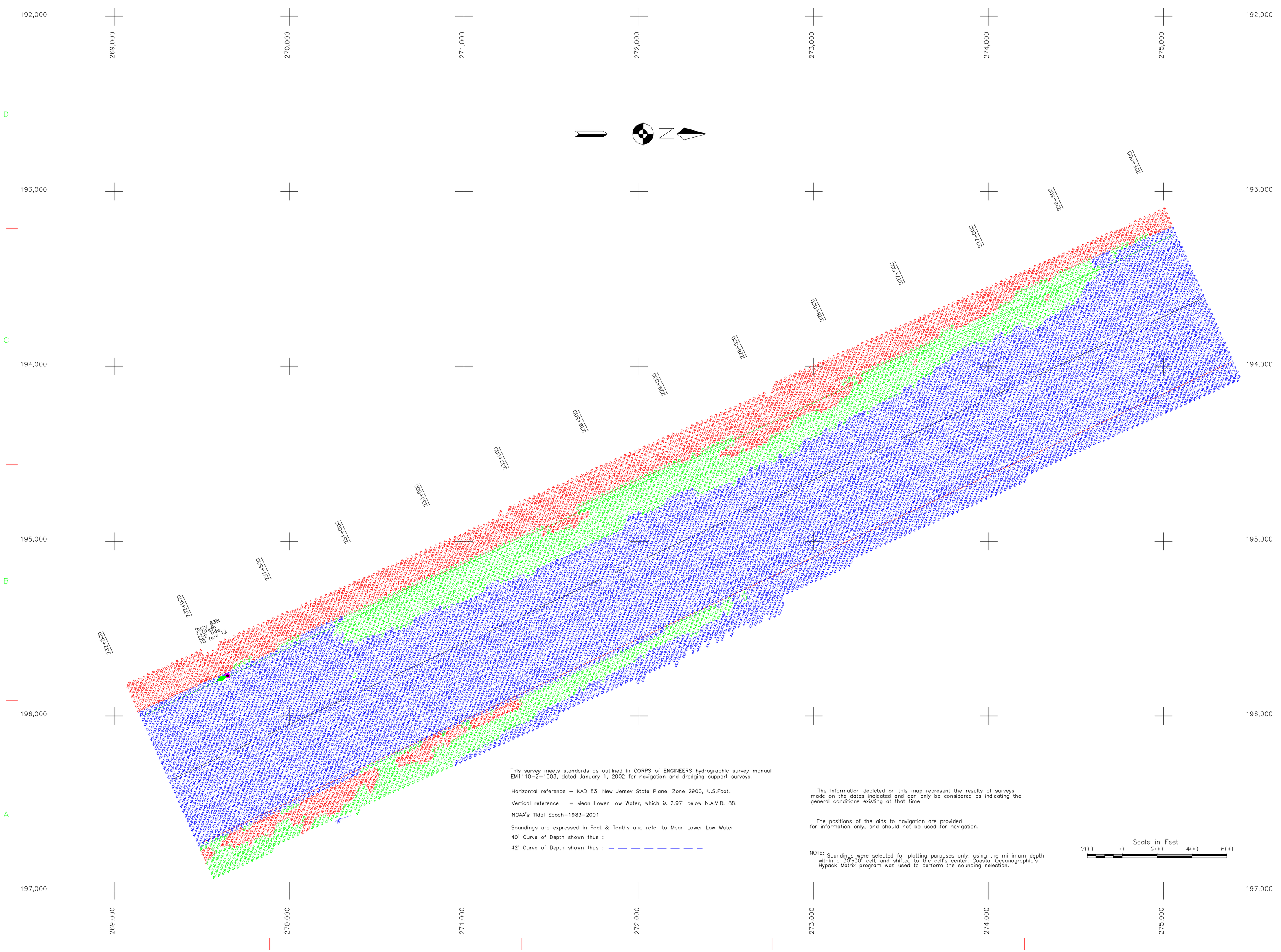
TRACED BY J.A.Groch | PLOTTED BY J.A.Caraballo | DRAWING NO. 63660
SURVEYED BY C.Etschman | DATE SURVEYED As Shown | APPROVED Chief, Surv. Branch

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB: W912BU1 –
Reviewed by: | Quadrangle Name: Delaware City
Submitted by: | Plot date: 11/30/2012
Chief, Arch. Branch | Plot scale: 1in to 200 ft

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION
NEW CASTLE RANGE
STA.219+000 TO STA.226+000

Sheet reference number:

Sheet 2 of 4



US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.
Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

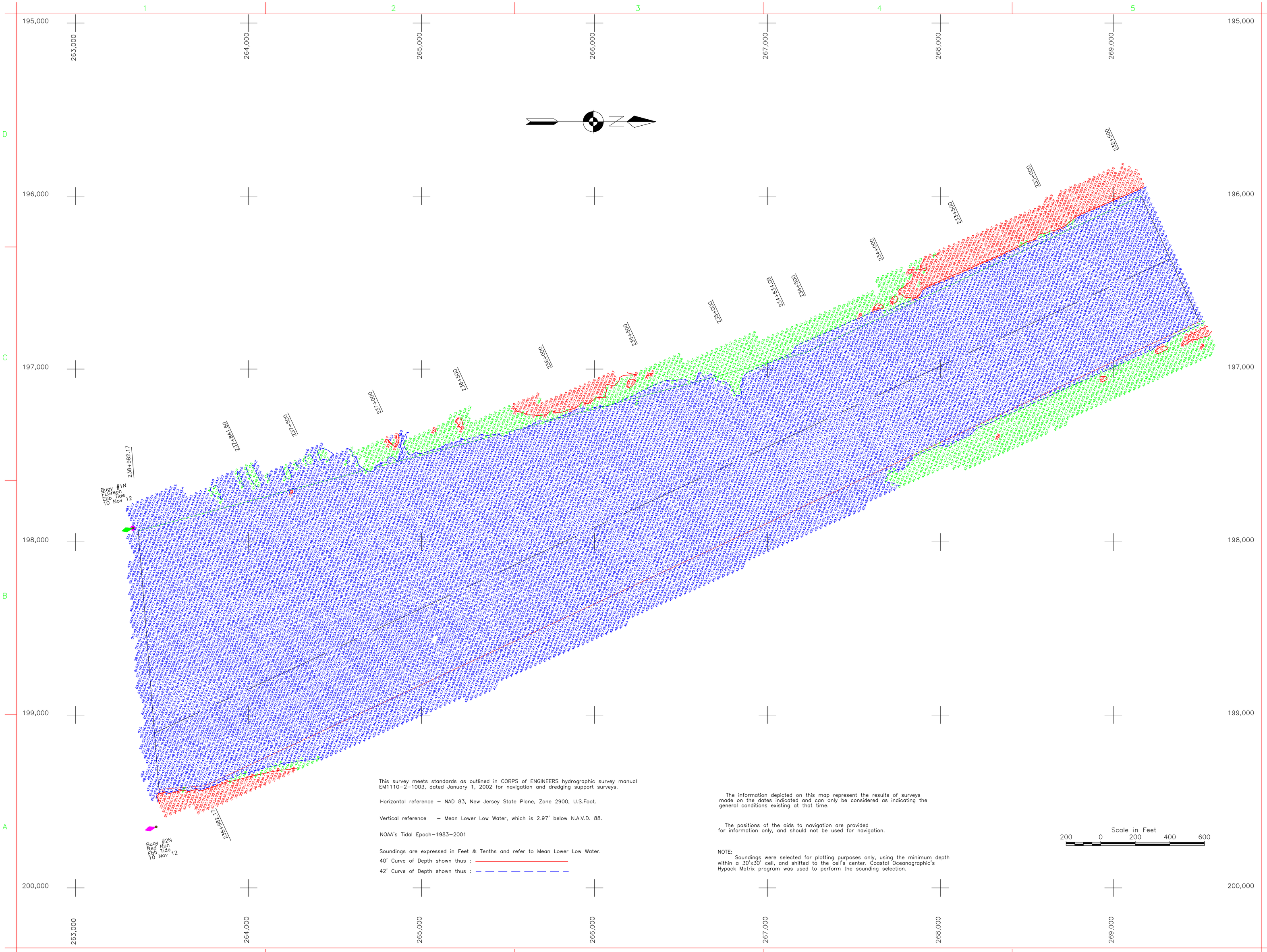
TRACED BY J.A.Groch
PLOTTED BY J.A.Caraballo
DRAWING NO. 63662
SURVEYED BY C.Eischman
DATE SURVEYED 10,13 Nov 12
APPROVED Chief, Surv. Branch

Designed by:
Date:
Rev.
Dwn by:
Ckd by:
IFB W912BU1-
Reviewed by:
Quadrangle Name: Delaware City
Submitted by: Chief, Arch. Branch
Plot date: 11/30/2012
Plot scale: 1in to 200 ft

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION
NEW CASTLE RANGE
STA.226+000 TO STA.232+500

Sheet reference number:

Sheet 3 of 4



This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

Horizontal reference – NAD 83, New Jersey State Plane, Zone 2900, U.S.Foot.

Vertical reference – Mean Lower Low Water, which is 2.97' below N.A.V.D. 88.

NOAA's Tidal Epoch–1983–2001

Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.

40' Curve of Depth shown thus :

42' Curve of Depth shown thus :

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NOTE:
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Scale in Feet
200 0 200 400 600

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Groch	PLOTTED BY J.A.Caraballo	DRAWING NO. 63663	
SURVEYED BY C.Etschman	DATE SURVEYED 10 Nov 12	APPROVED	

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU-
Reviewed by: | Quadrangle Name: Delaware City
Submitted by: | File name:
Chief, Arch. Branch | Plot date: 12/01/2012
Plot scale: 1in to 200 ft

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION

NEW CASTLE RANGE
STA.232+500 TO 238+982.17

Sheet reference number:

Sheet 4 of 4