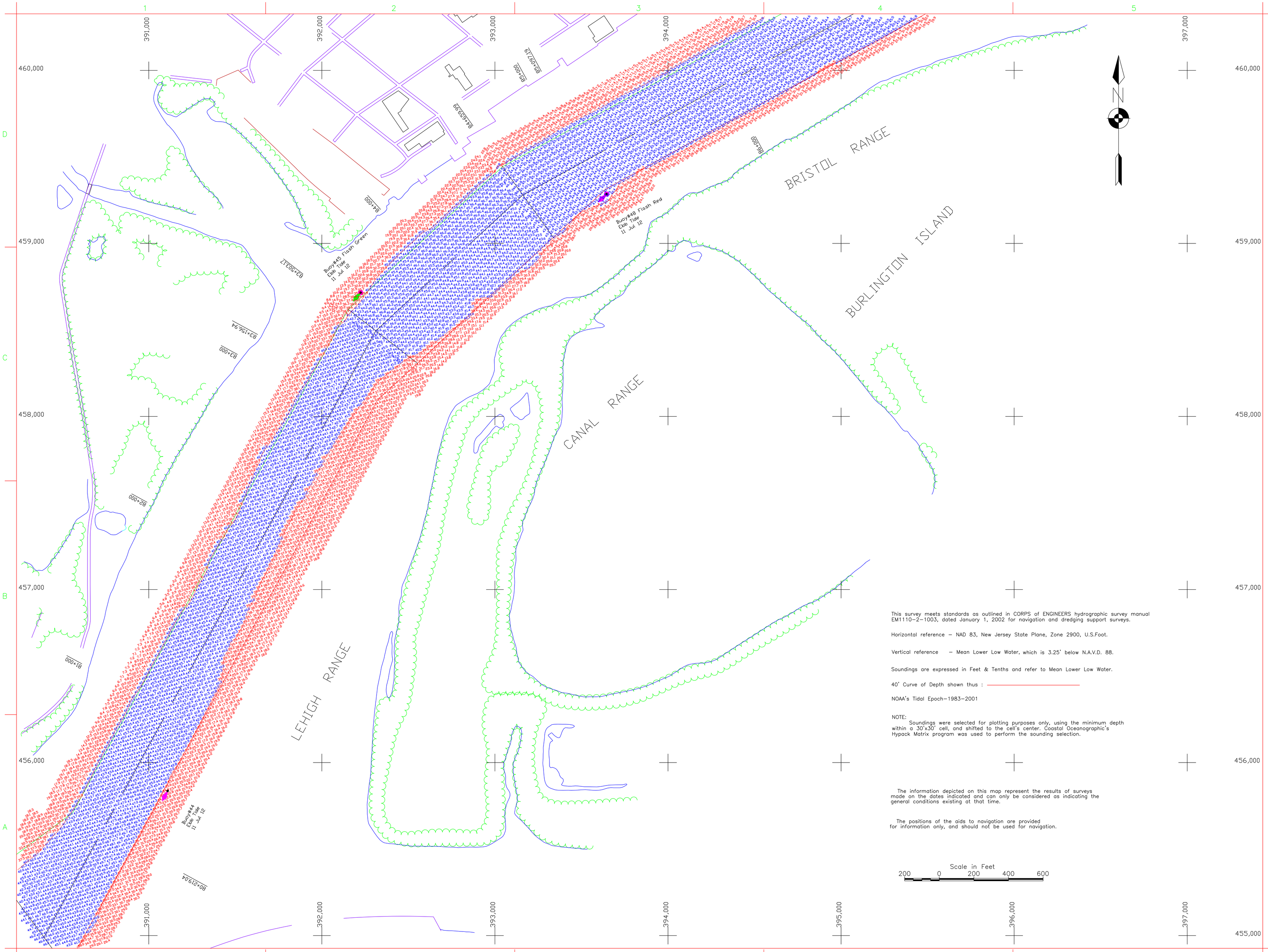


This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

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

Vertical reference – Mean Lower Low Water, which is 3.25' below N.A.V.D. 88.

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

40' Curve of Depth shown thus : ———————

NOAA's Tidal Epoch-1983-2001

NOTE:
Soundings were selected for plotting purposes only, 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.

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.

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:
Submitted by: | File name: | Plot date: 08/03/2012 | Plot scale: 1in = 200 ft
Chief, Arch. Branch

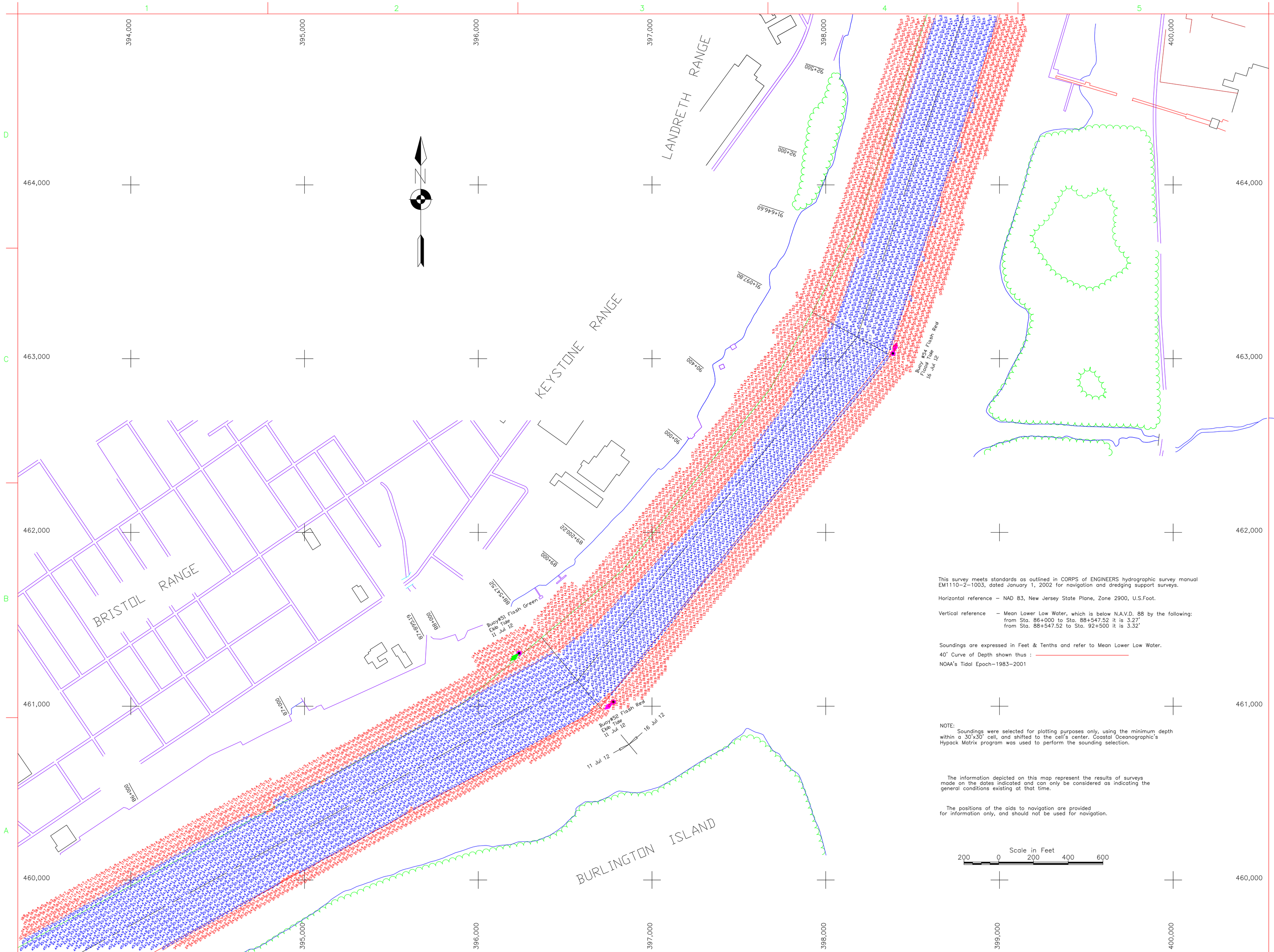
U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Groch | PLOTTED BY M.Gaughan | DRAWING NO. 63465
SURVEYED BY J.Gray | DATE SURVEYED 11 Jul 12 | APPROVED
CHIEF, ARCH. BRANCH

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.80+219.04 TO STA.86+000

Sheet reference number:

Sheet 13 of 25



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 below N.A.V.D. 88 by the following:
from Sta. 86+000 to Sta. 88+547.52 it is 3.27'
from Sta. 88+547.52 to Sta. 92+500 it is 3.32'

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

40' Curve of Depth shown thus : ———

NOAA's Tidal Epoch-1983-2001

NOTE:
Soundings were selected for plotting purposes only, 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.

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Scale in Feet
200 0 200 400 600

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

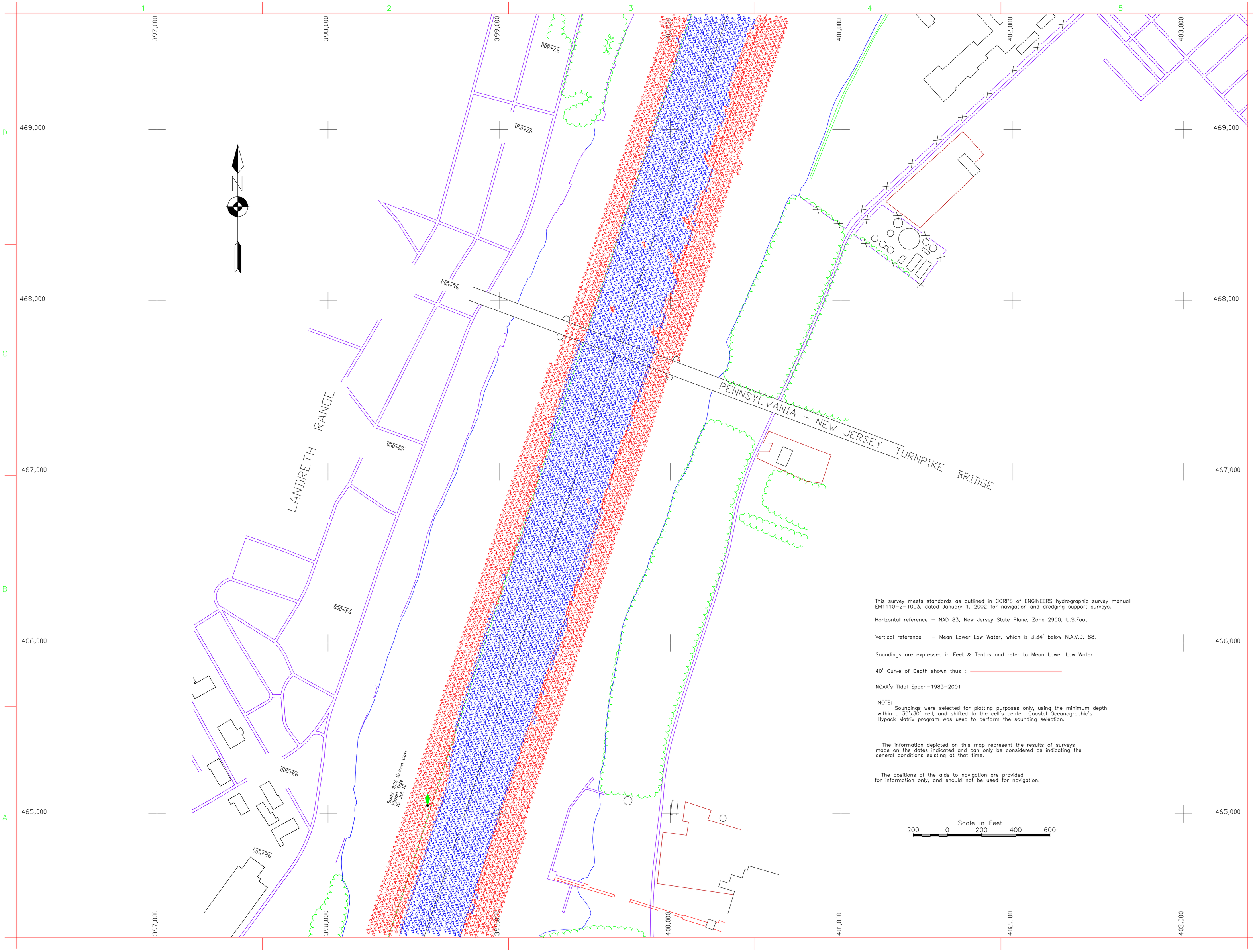
TRACED BY J.A.Grach
PLOTTED BY M.Gaughan
DATE SURVEYED
DRAWING NO. 63486
APPROVED
J.Gray
as shown

Designed by:
Dwn by:
Ckd by:
Reviewed by:
Submitted by:
Chief, Arch. Branch
Date:
Rev.
IFB W912BU1-
Quadrangle Name:
File name:
Plot date: 08/20/2012
Plot scale: 1in = 200 ft

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.86+000 TO STA.92+500

Sheet reference number:

Sheet 14 of 25



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 3.34' below N.A.V.D. 88.

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

40' Curve of Depth shown thus :

NOAA's Tidal Epoch-1983-2001

NOTE:
Soundings were selected for plotting purposes only, 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.

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.

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Scale in Feet
200 0 200 400 600

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

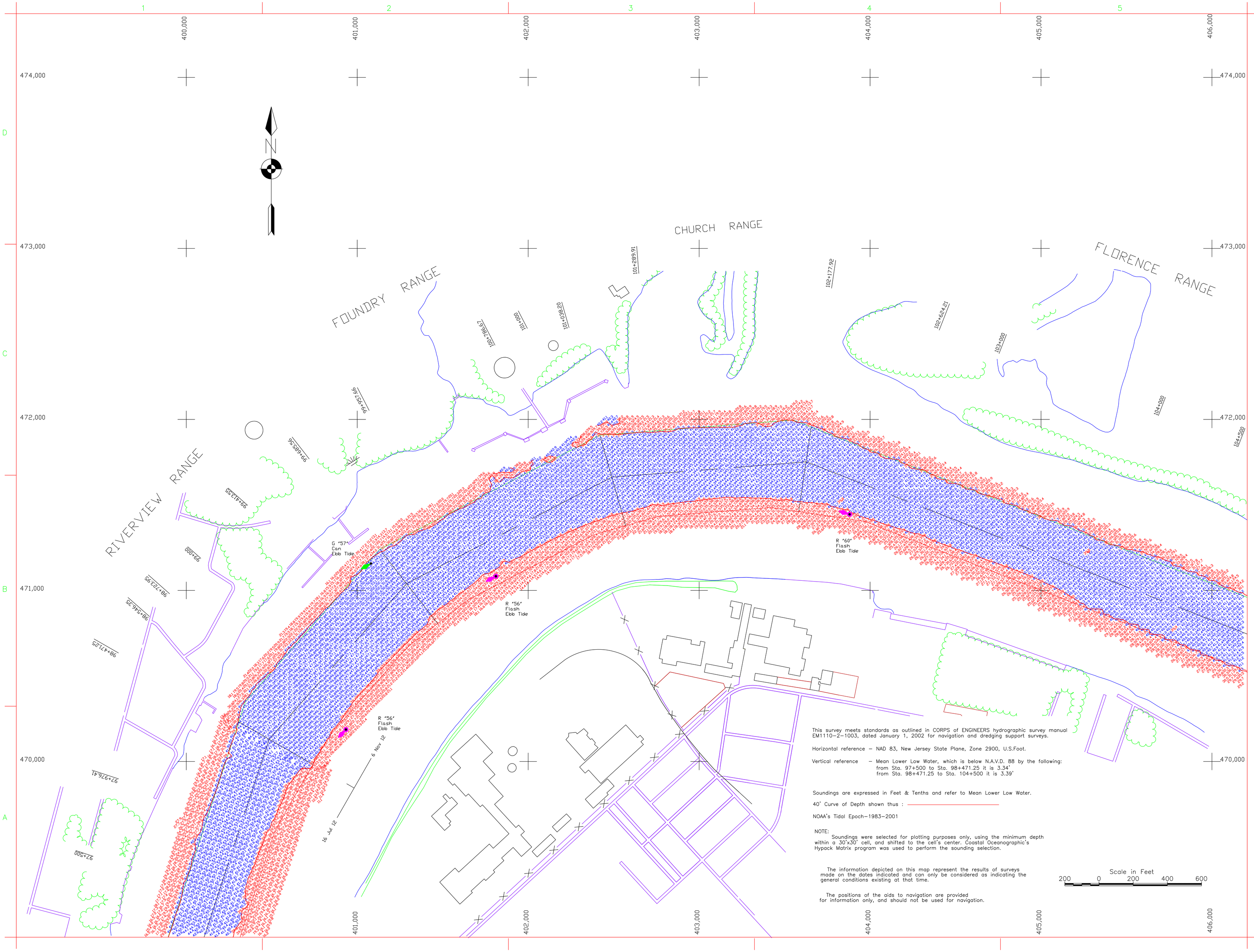
Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name: | Plot date: 08/20/2012 | Plot scale: 1in = 200 ft
Chief, Arch. Branch

TRACED BY J.A.Groch | PLOTTED BY LAfford | DRAWING NO. 63487
SURVEYED BY J.Gray | DATE SURVEYED 16 Jul 12 | APPROVED

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.92+500 TO STA.97+500

Sheet reference number:

Sheet 15 of 25



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 below N.A.V.D. 88 by the following:
from Sta. 97+500 to Sta. 98+471.25 it is 3.34'
from Sta. 98+471.25 to Sta. 104+500 it is 3.39'

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

40' Curve of Depth shown thus :

NOAA's Tidal Epoch-1983-2001

NOTE:
Soundings were selected for plotting purposes only, 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.

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.

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

Designed by:
Dwn by: Ckd by:
Reviewed by:
Submitted by: Chief, Arch. Branch
Date:
Rev.
FFB W912BU1-
Quadrangle Name:
File name:
Plot date: 13 Nov 12
Plot scale: 1in = 200 ft

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

TRACED BY J.A.Groch
PLOTTED BY W.Miller
DRAWING NO. 63623
SURVEYED BY G.Griffith
DATE SURVEYED As Shown
APPROVED
Chief, Arch. Branch

DELAWARE RIVER
PHILADELPHIA, PA TO TRENTON, N.J.
EXAMINATION
STA.97+500 TO STA.104+500

Sheet reference number:

Sheet 16 of 25