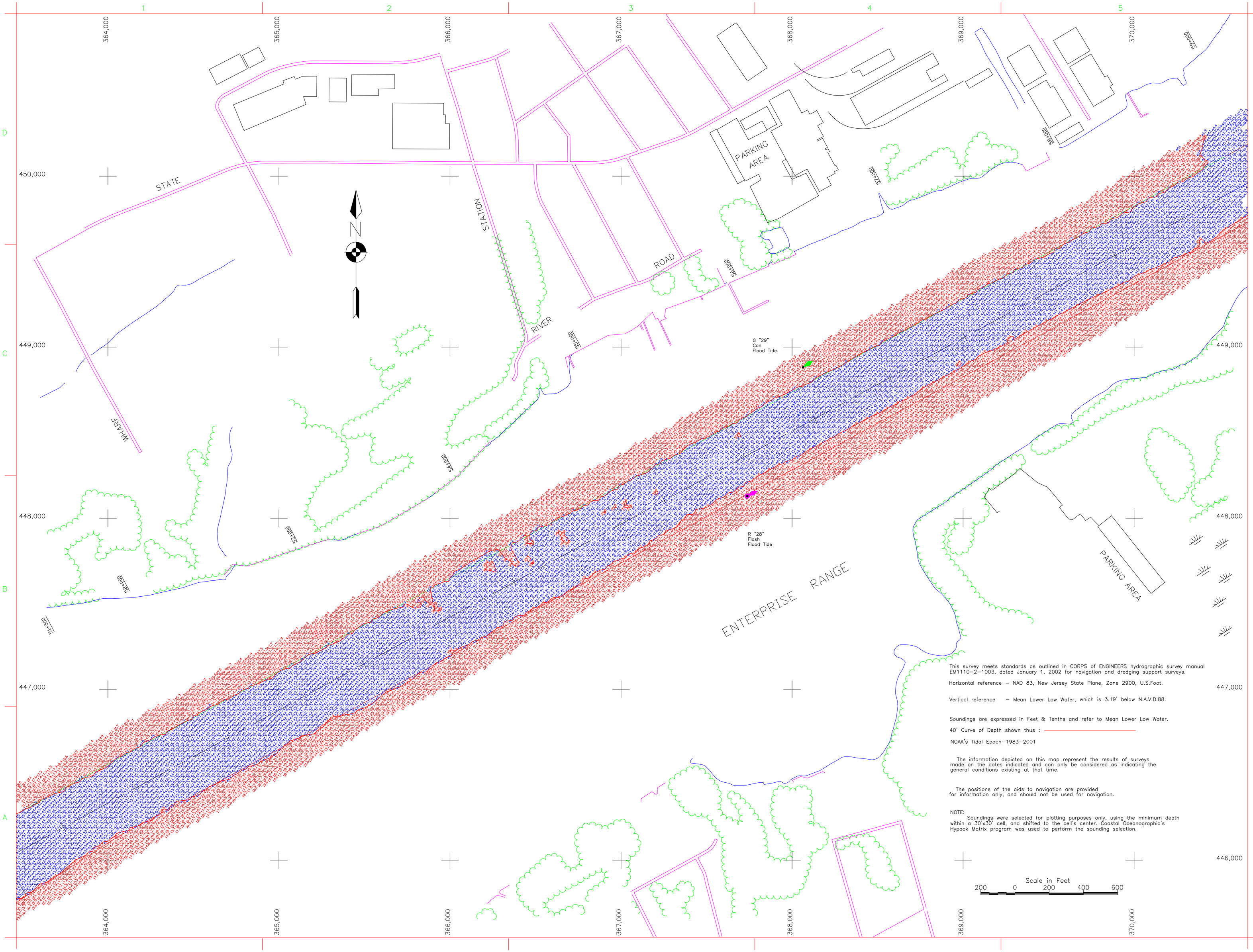


This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

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

Vertical reference – Mean Lower Low Water, which is 3.19' 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

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 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.

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name: | Plot date: 4 Nov 12 | Plot scale: 1in = 200 ft.
Chief, Arch. Branch

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

TRACED BY	PLOTTED BY	DRAWING NO.
J.A.Groch	W.Miller	63601
SURVEYED BY	DATE SURVEYED	APPROVED
G.Griffith, J.Gray	2 Nov 12	CHIEF, SURVEY BRANCH

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.51+500 TO STA.59+000

Sheet reference number:

Sheet 9 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. 59+000 to Sta. 66+000 it is 3.19'

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.	Mark	Description	Date	Appr.

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name: | Plot date: 4 Nov 12 | Plot scale: 1in = 200 ft.
Chief, Arch. Branch

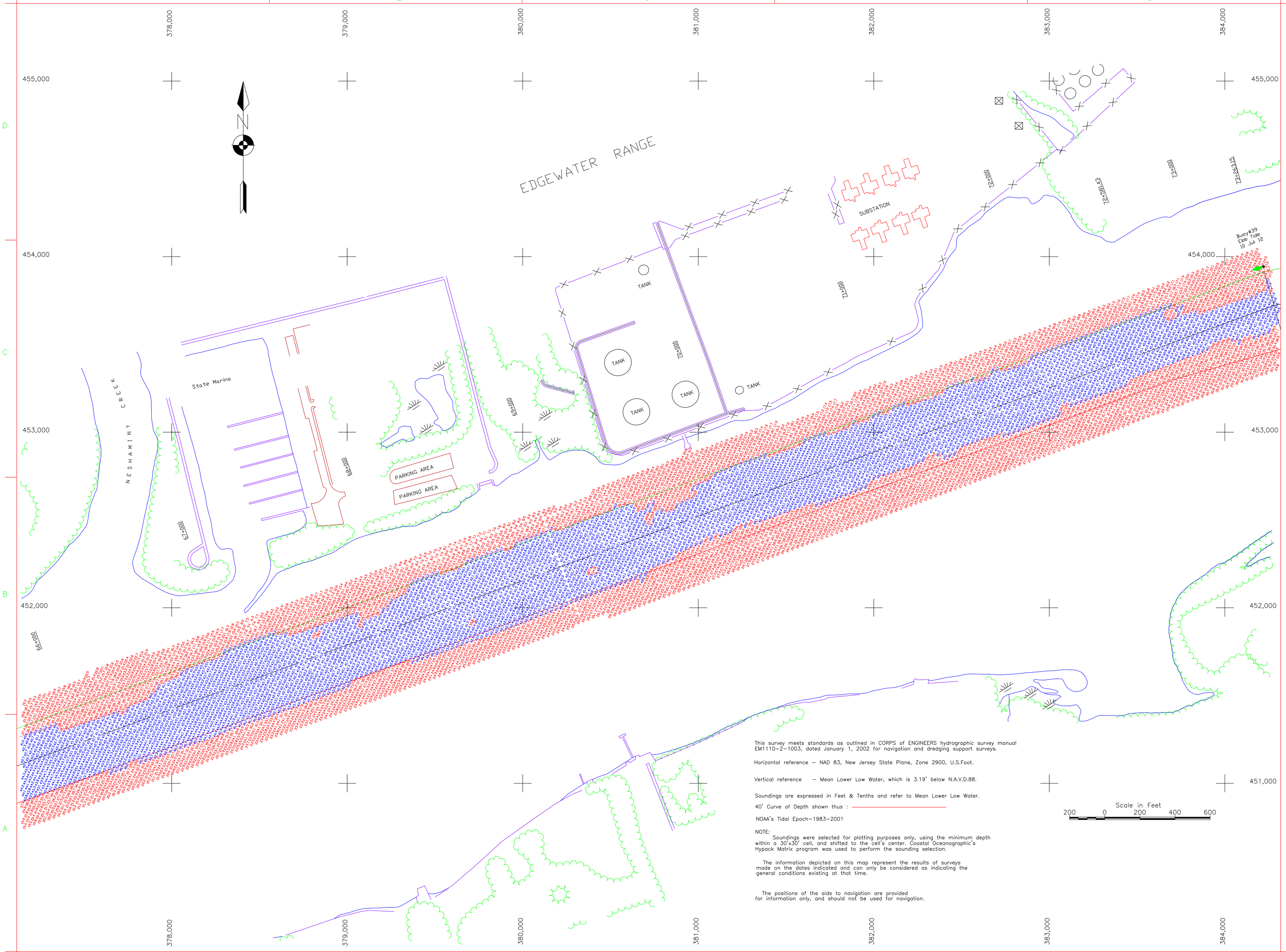
U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Grach | PLOTTED BY W.Miller | DRAWING NO. 63602
SURVEYED BY J.Gray | DATE SURVEYED As Shown | APPROVED
CHIEF, SURVEY BRANCH

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.59+000 TO STA.66+000

Sheet reference number:

Sheet 10 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 3.19' 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.	Mark	Description	Date	Appr.

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB: W912BI1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name: | Plot date: 08/03/2012 | Plot scale: 1IN = 200 ft.
Chief, Arch. Branch

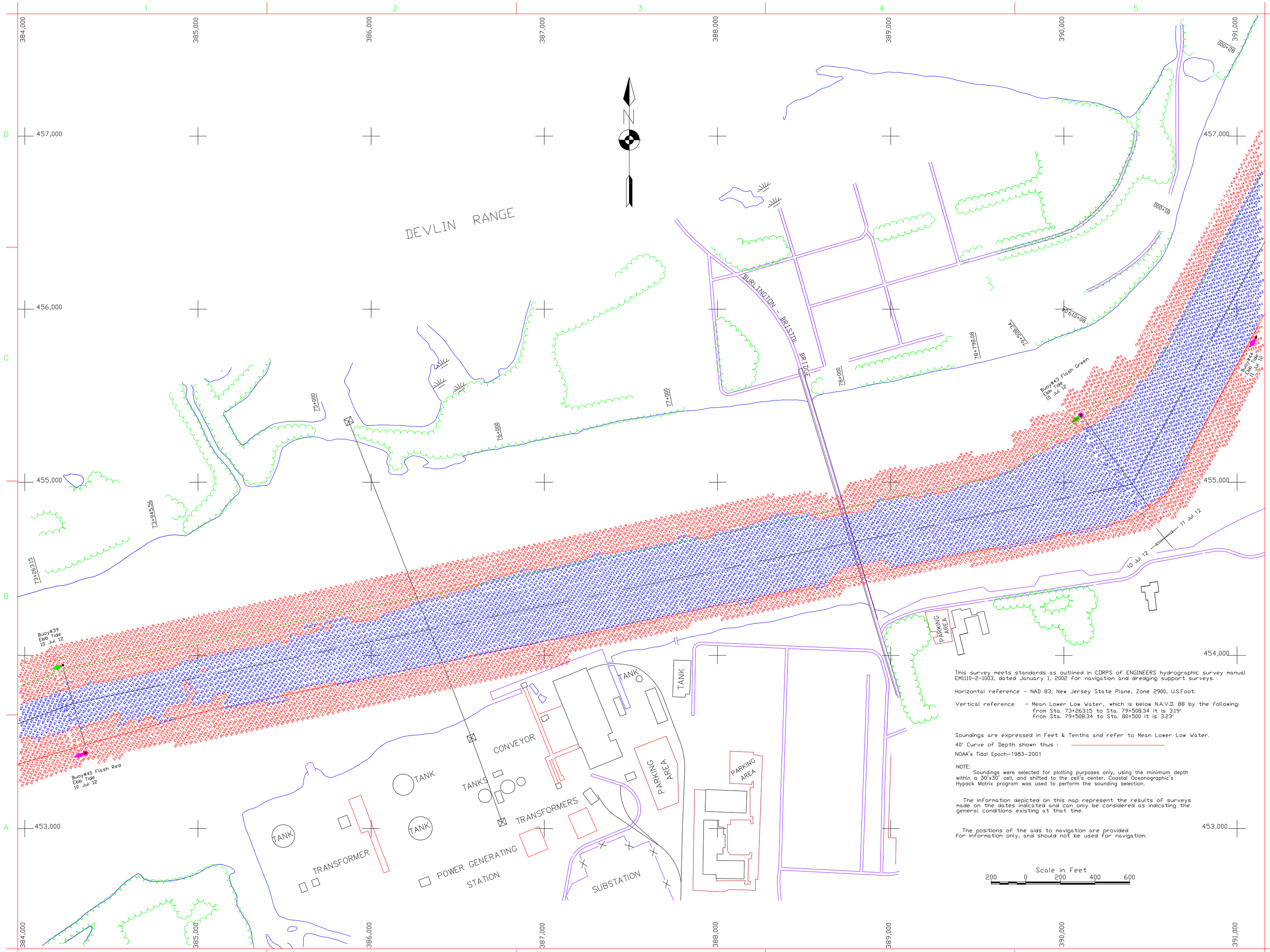
U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Grach | PLOTTED BY M.Gaughan | DRAWING NO. 63463
SURVEYED BY J.Gray | DATE SURVEYED 10 Jul 12 | APPROVED
CHIEF, SURV. BRANCH

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.66+000 TO STA.73+000

Sheet reference number:

Sheet 11 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. 73+263.15 to Sta. 79+508.34 it is 3.19'
from Sta. 79+508.34 to Sta. 80+500 it is 3.23'

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.

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 M.Gaughan	DRAWING NO. 63464	
SURVEYED BY J.Gray	DATE SURVEYED as shown	APPROVED	

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name:
Chief, Arch. Branch | Plot date: 08/03/2012
Plot scale: 1in = 200 ft

DELAWARE RIVER
PHILADELPHIA, PA. TO TRENTON, N.J.
EXAMINATION
STA.73+263.15 TO STA.80+500

Sheet reference number:

Sheet 12 of 25