

This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference - NAD 83, Delaware State Plane, Zone 0700, U.S. Feet.

Vertical reference - Mean Lower Low Water, which is below NAVD. 88 by the following:  
 from Sta.53+500 to Sta.59+888.02 it is 2.02'  
 from Sta.59+888.02 to Sta.60+400 it is 1.93'

NOAA's Tidal Epoch-1983-2001

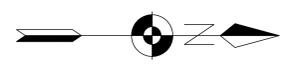
Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.

35' Curve of Depth shown thus :

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 conducted under the general conditions existing at that time.

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



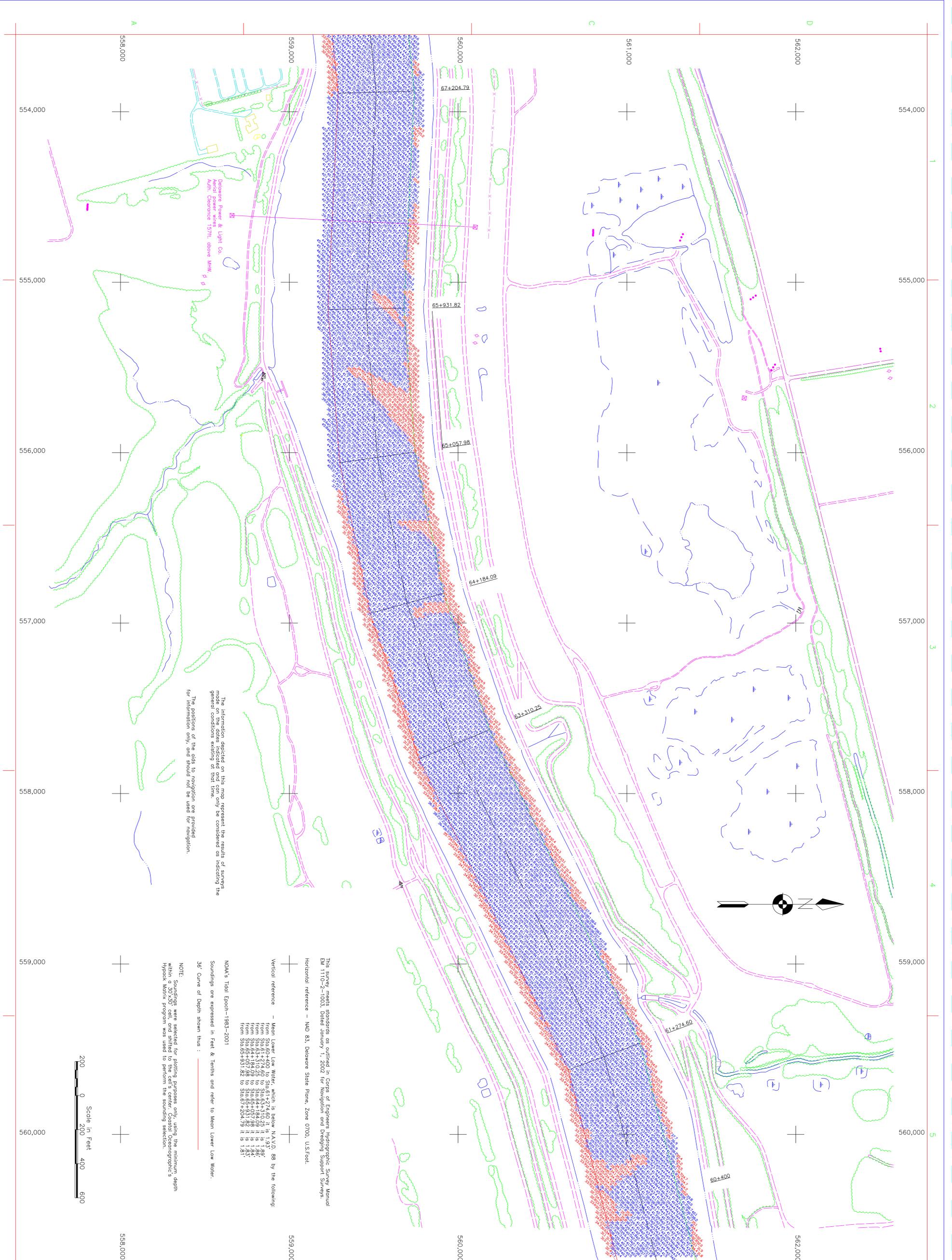
Sheet reference number:  
Sheet 9 of 15

INLAND WATERWAY  
CHESAPEAKE & DELAWARE CANAL  
EXAMINATION  
STA.53+500 TO STA.60+400

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY J.A.Caraballo	Dwn by:	Cld by:	IFB W912BU-
DRAWING NO. 63266		Reviewed by:	Drawing code:	
SURVEYED BY J.Gray	DATE SURVEYED 14 Mar 12	Submitted by:	File name:	03/20/2012
APPROVED		Chief, Arch. Branch	Plot date:	03/20/2012
-copy survey notes-			Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





The information depicted on this map represent the results of survey's and should not be used for navigation. The positions of the data 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 typical work program was used to perform the sounding selection.



This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference - NAD 83, Delaware State Plane, Zone 0700, U.S. Feet.

Vertical reference - Mean Lower Low Water, which is below NAVD. 88 by the following:  
 from Sta.60+400 to Sta.61+274.60 it is 1.37' 89'  
 from Sta.61+274.60 to Sta.62+110.25 it is 1.98'  
 from Sta.62+110.25 to Sta.63+184.09 it is 1.94'  
 from Sta.63+184.09 to Sta.65+057.98 it is 1.94'  
 from Sta.65+057.98 to Sta.65+931.82 it is 1.83'  
 from Sta.65+931.82 to Sta.67+204.79 it is 1.83'

NOAA's Tidal Epoch-1983-2001  
 Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.  
 36" Curve of Depth shown thus : ————

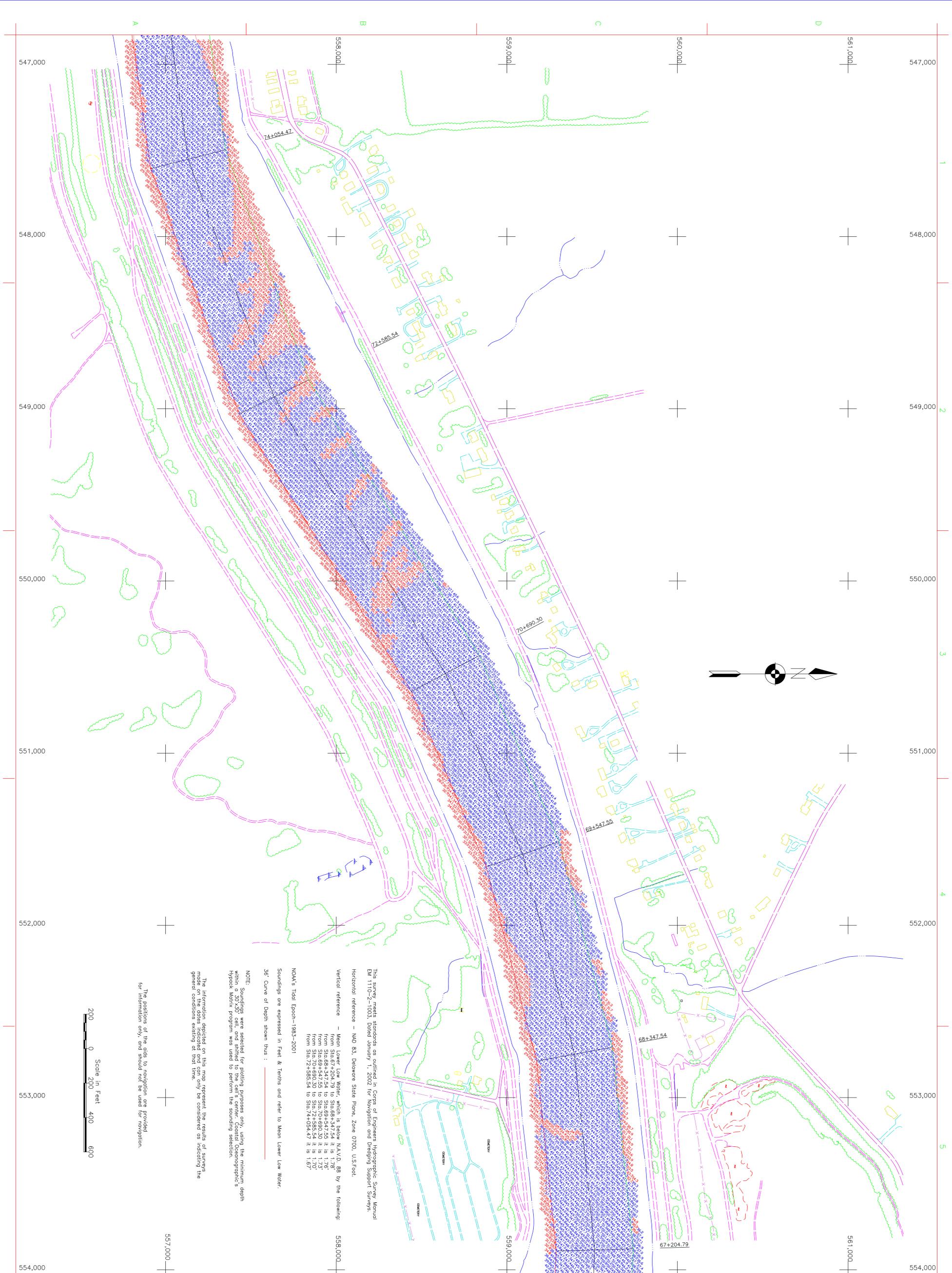
Sheet reference number:  
Sheet 10 of 15

INLAND WATERWAY  
CHESAPEAKE & DELAWARE CANAL  
EXAMINATION  
STA.60+400 TO STA.67+204.79

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY J.A.Ceraballo	Dwn by:	Ckd by:	IFB W912BU-
SURVEYED BY J.Gray	DATE SURVEYED 14 Mar 12	Reviewed by:	Drawing code:	63267
	APPROVED	Submitted by:	File name:	
		Chief, Arch. Branch	Plot date:	03/20/2012
			Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





The survey data is plotted as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003. Dated January 1, 2002 for Navigation and Designing Support Surveys.

Horizontal reference - NAD 83, Delaware State Plane, Zone 0700, U.S. Feet.

Vertical reference - Mean Lower Low Water, which is below NAVD 88 by the following:

from Sta:67+204.79 to Sta:68+347.54	It is 1.78'
from Sta:68+347.54 to Sta:69+547.55	It is 1.76'
from Sta:69+547.55 to Sta:70+690.30	It is 1.72'
from Sta:70+690.30 to Sta:72+558.54	It is 1.72'
from Sta:72+558.54 to Sta:74+054.47	It is 1.67'

NOAA's Tidal Epoch-1983-2001

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

36' Curve of Depth shown thus:

NOTE: Soundings were selected for plotting purposes only, using the minimum depth within the sounding interval. The 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 shown and should not 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.



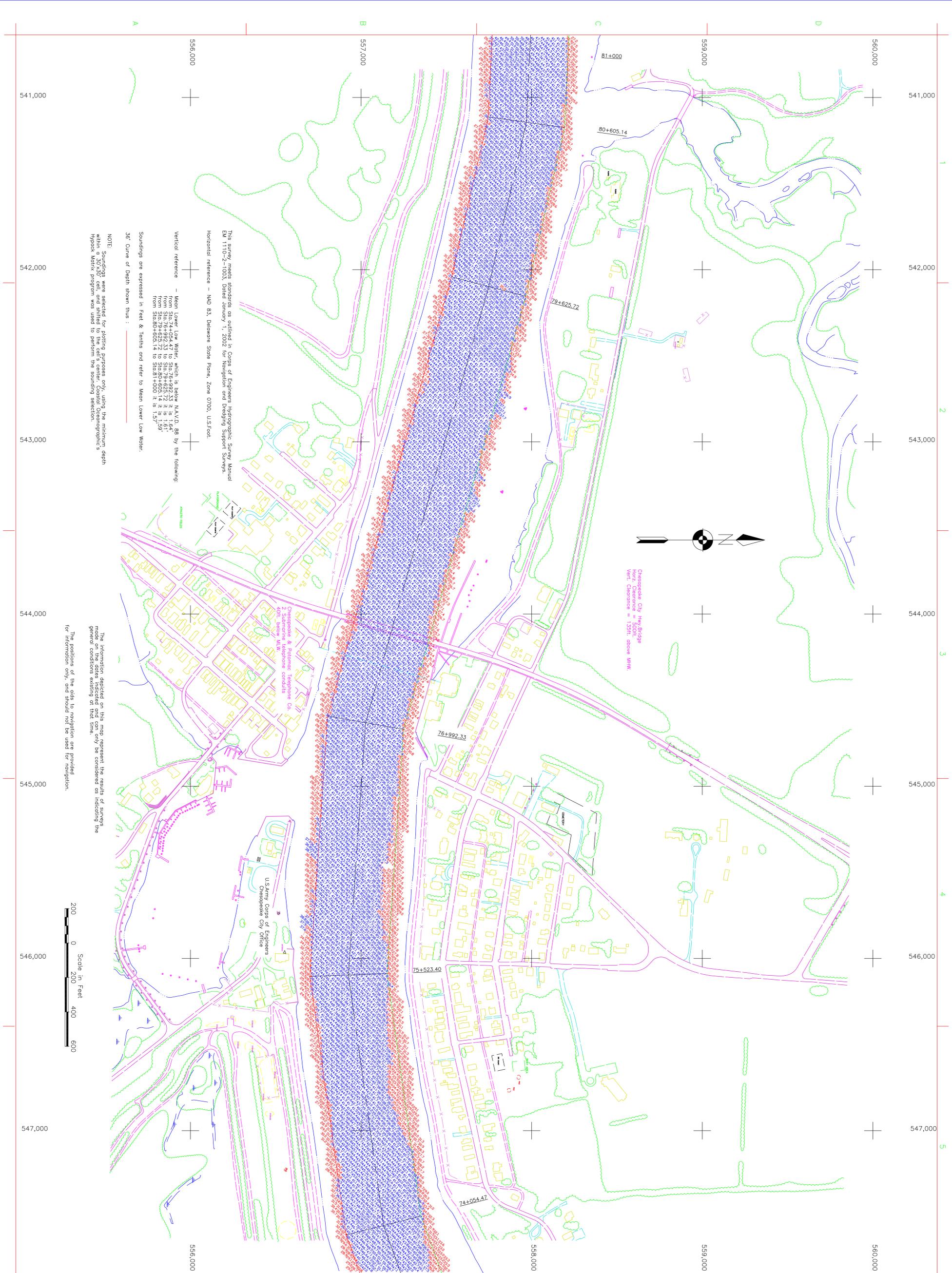
Sheet reference number: 11 of 15

INLAND WATERWAY CHESAPEAKE & DELAWARE CANAL EXAMINATION  
STA.67+204.79 TO STA.74+054.47

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY J.A.Caroballo	Dwn by:	Ckd by:	IFB W912BU-
SURVEYED BY J.Gray	DATE SURVEYED 14 Mar 12	Reviewed by:	Drawing code:	63268
APPROVED		Submitted by:	File name:	Plot date: 03/20/2012
Chief, Arch. Branch		Chief, Arch. Branch	Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference - NAD 83, Delaware State Plane, Zone 0700, U.S. Foot

Vertical reference - Mean Lower Low Water, which is below NAVD 88 by the following:  
 from Sta. 74+054.47 to Sta. 76+992.33 it is 1.64'  
 from Sta. 76+992.33 to Sta. 79+625.72 it is 1.59'  
 from Sta. 79+625.72 to Sta. 80+605.14 it is 1.59'  
 from Sta. 80+605.14 to Sta. 81+000 it is 1.57'

Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.  
 36" Curve of Depth shown thus:

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 Geographic's Hypack Matrix program was used to perform the sounding selection.

The information depicted on this map represent the results of surveys made under the conditions stated herein. It should not be used for navigation. The positions of the aids to navigation are provided for information only, they should not be used for navigation.

Chesapeake City Hwy Bridge  
 Horiz. Clearance = 500ft.  
 Vert. Clearance = 135ft. above MHW.

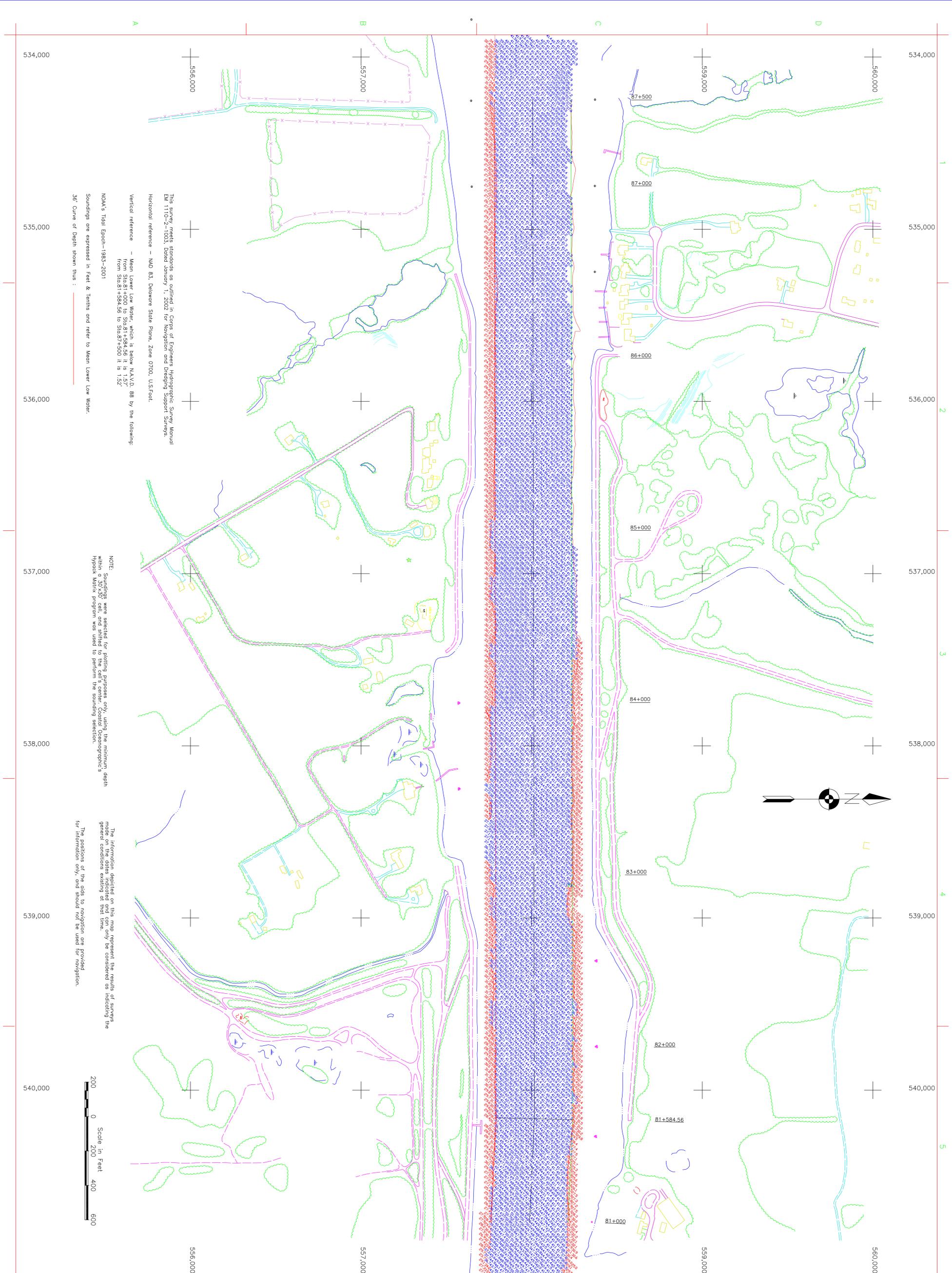
U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA		Designed by:	Date:	Rev.
CORPS OF ENGINEERS		Dwn. by:	Cld. by:	IFB W912BU-
PHILADELPHIA, PENNSYLVANIA		Reviewed by:	Drawing code:	
TRACED BY J.A.Groch	PLOTTED BY J.A.Caraballo	Submitted by:	File name:	03/21/2012
SURVEYED BY J.Gray	DATE SURVEYED 13 Mar 12	APPROVED	Plot date:	03/21/2012
		Chief, Arch. Branch	Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

INLAND WATERWAY  
 CHESAPEAKE & DELAWARE CANAL  
 EXAMINATION  
 STA.74+054.47 TO STA.81+000

Sheet reference number:  
 Sheet 12 of 15





This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference - NAD 83, Delaware State Plane, Zone 0700, U.S. Feet.

Vertical reference - Mean Lower Low Water, which is below N.A.V.D. 88 by the following:  
 from STA.81+000 to STA.81+584.56 it is 1.57'  
 from STA.81+584.56 to STA.87+500 it is 1.52'

NOAA's Tidal Epoch-1983-2001

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

36" Curve of Depth shown thus:

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.



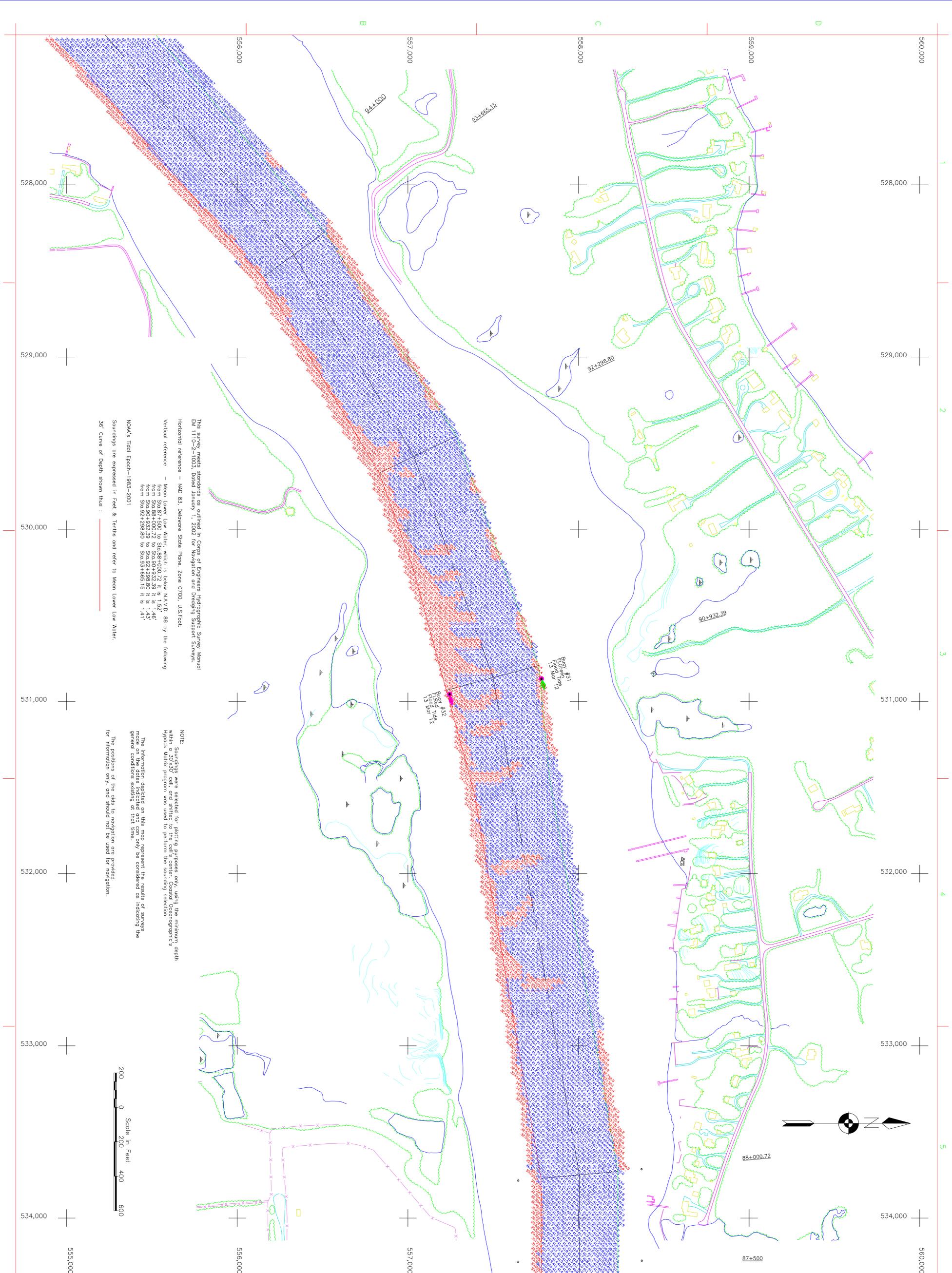
Sheet reference number:  
Sheet 13 of 15

INLAND WATERWAY  
CHESAPEAKE & DELAWARE CANAL  
EXAMINATION  
STA.81+000 TO STA.87+500

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
Traced by: J.A.Groch	Plotted by: J.A.Caraballo	Dwn by:	Ckd by:	IFB W912BU-
Reviewed by:	Drawing NO: 63273	Submitted by:	Date:	03/21/2012
Surveyed by: J.Gray	Date Surveyed: 13 Mar 12	Approved:	Chief, Arch. Branch	Plot scale: 1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference - MAD 83, Delaware State Plane, Zone 0700, U.S. Foot.

Vertical reference - Mean Lower Low Water, which is below M.A.L.W. 88 by the following:  
 - Mean Lower Low Water, 88+000.72  
 from Sta. 88+000.72 to Sta. 90+932.39 is 1.46'  
 from Sta. 90+932.39 to Sta. 92+298.80 is 1.43'  
 from Sta. 92+298.80 to Sta. 92+665.15 is 1.41'

NOAA's Tidal Epoch - 1983-2001

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

36" Curve of Depth shown thus:

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 Metric program was used to perform the sounding selection.

The information depicted on this map represents 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.

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INLAND WATERWAY CHESAPEAKE & DELAWARE CANAL EXAMINATION  
 STA. 87+500 TO STA. 93+665.15

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA		Designed by:	Date:	Rev.
CORPS OF ENGINEERS		Dwn by:	Ckd by:	IFB W912BU-
PHILADELPHIA, PENNSYLVANIA		Reviewed by:	Drawing code:	
TRACED BY J.A.Groch	PLOTTED BY J.A.Caraballo	Submitted by:	File name:	03/21/2012
SURVEYED BY J.Gray	DATE SURVEYED 13 Mar 12	APPROVED	Plot date:	03/21/2012
		Chief, Arch. Branch	Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.



