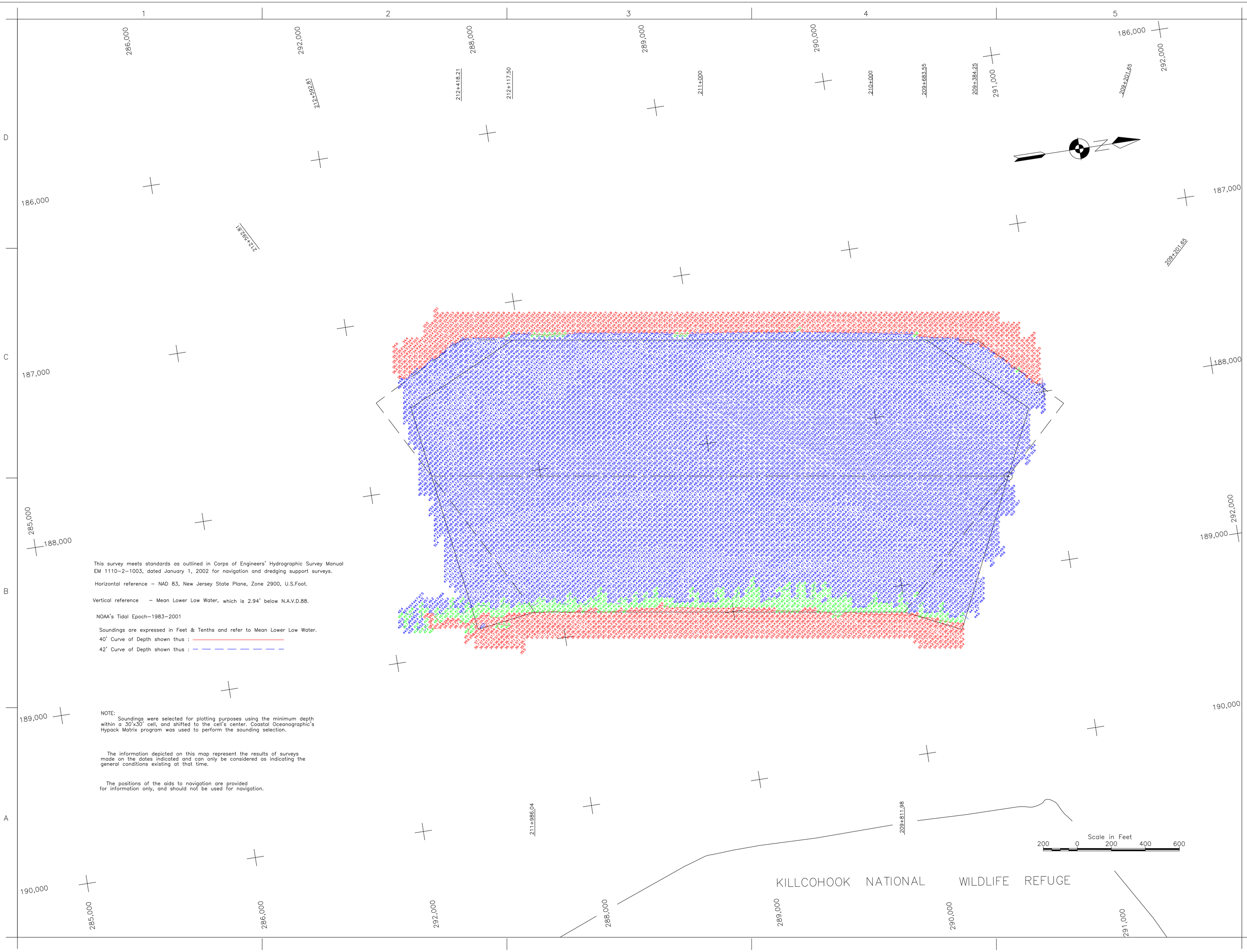

This survey meets standards as outlined in Corps of Engineers' Hydrographic Survey Manual EM 1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

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

Vertical reference – Mean Lower Low Water, which is 2.94' 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 : — — — — — — —

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.

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.

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

TRACED BY J.A.Groch	PLOTTED BY M.Gaughan	DRAWING NO. 64146	
SURVEYED BY J.Gray	DATE SURVEYED 11 Sep 13	APPROVED CHIEF, SURVEY BRANCH	

Designed by:	Date:	Rev.	
Dwn by:	Ckd by:	IFB DACW61-	
Reviewed by:		Drawing code:	
Submitted by: Chief, Arch. Branch		File name: Plot date: 10/11/2013 Plot scale: 1in to 200 ft	

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION

BULKHEAD BAR RANGE
STA.209+201.65 TO STA.212+592.81

Sheet reference number:

Sheet 1 of 1