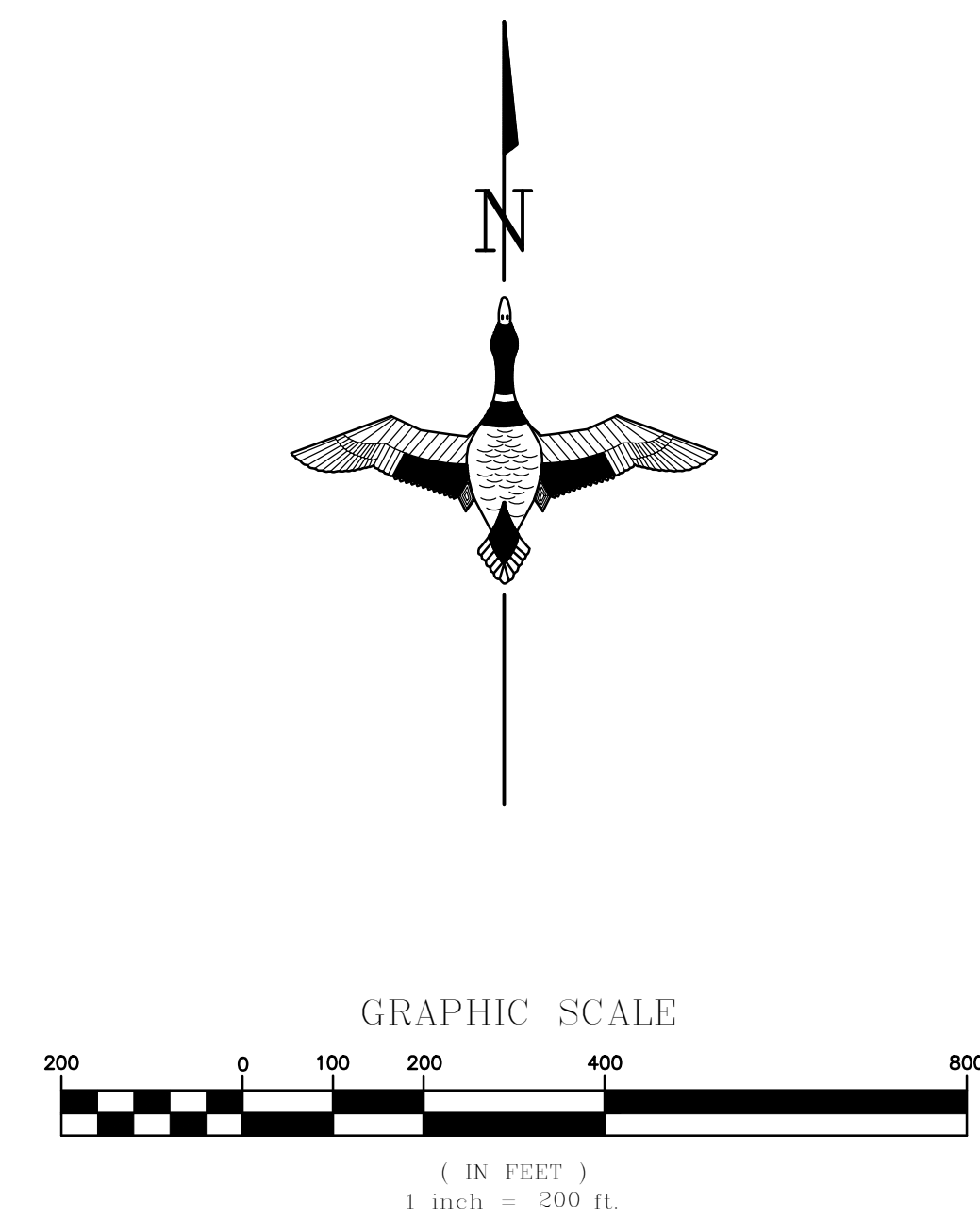
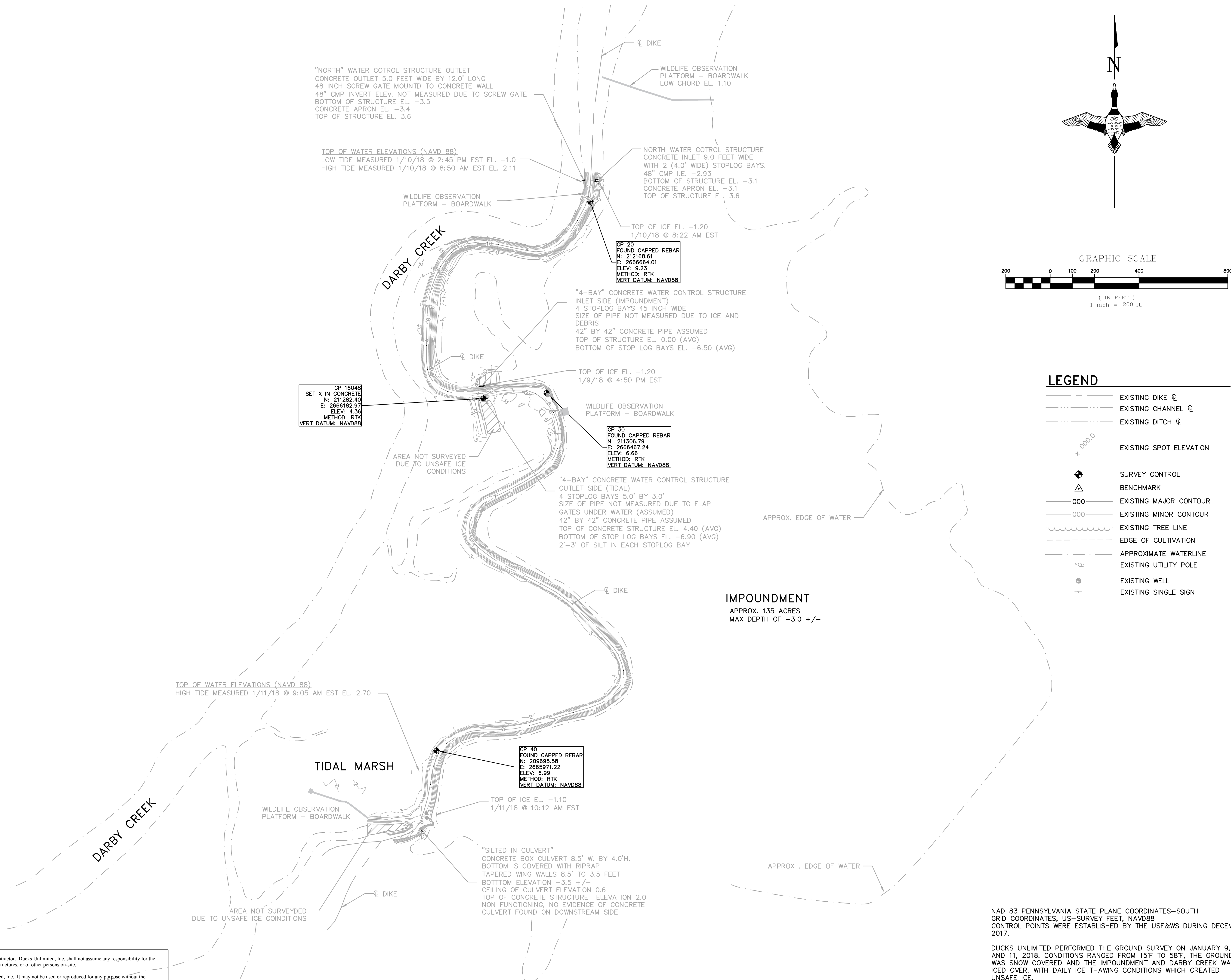


K:\GLARO CAD Project\PA-99-2 JOHN HEINZ NWR DIKE SURVEY TOPOGRAPHIC SURVEY.dwg, 2/8/2018 3:43 PM, Gregg Baerman, TPOD 200, MALLC PDF.PDF

NOTICE: Construction site safety is the sole responsibility of the contractor. Ducks Unlimited, Inc. shall not assume any responsibility for the safety of the work performed, persons engaged in the work, nearby structures, or of other persons on-site.

This material, data and information is the property of Ducks Unlimited, Inc. It may not be used or reproduced for any purpose without the prior written consent of an authorized agent of Ducks Unlimited, Inc. Ducks Unlimited, Inc. makes no representation or warranty of any kind regarding this material, data and information, including, but not limited to, the accuracy of the material, data and information or its suitability for any purpose. All use of the material, data and information is at the users sole risk. By using any of this material, data and information, user agrees that Ducks Unlimited, Inc. is not responsible for their use of the material, data and information or the results thereof.



LEGEND

	EXISTING DIKE
	EXISTING CHANNEL
	EXISTING DITCH
	EXISTING SPOT ELEVATION
	SURVEY CONTROL
	BENCHMARK
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING TREE LINE
	EDGE OF CULTIVATION
	APPROXIMATE WATERLINE
	EXISTING UTILITY POLE
	EXISTING WELL
	EXISTING SINGLE SIGN

IMPOUNDMENT
APPROX. 135 ACRES
MAX DEPTH OF -3.0 +/-

NAD 83 PENNSYLVANIA STATE PLANE COORDINATES--SOUTH
GRID COORDINATES, US--SURVEY FEET, NAVD88
CONTROL POINTS WERE ESTABLISHED BY THE USF&WS DURING DECEMBER 2017.

DUCKS UNLIMITED PERFORMED THE GROUND SURVEY ON JANUARY 9, 10, AND 11, 2018. CONDITIONS RANGED FROM 15F TO 58F, THE GROUND WAS SNOW COVERED AND THE IMPOUNDMENT AND DARBY CREEK WAS ICED OVER, WITH DAILY ICE THAWING CONDITIONS WHICH CREATED UNSAFE ICE.

Global Leader in Wetlands & Wildlife Conservation
GREAT LAKES/ATLANTIC REGIONAL OFFICE
ANN ARBOR, MICHIGAN (734) 623-2000
BISMARCK, NORTH DAKOTA (701) 355-3500

DUCKS UNLIMITED

JOHN HEINZ NWR DIKE SURVEY
TOPOGRAPHIC SURVEY
TINICUM TOWNSHIP
DELEWARE & PHILADELPHIA CO., PA

Revision No.	Sheet No.	Revisions	Date	By

CAD FILE:
PA-99-2 TOPOGRAPHIC SURVEY
DESIGNED BY: N/A
DRAWN BY: GB
SURVEYED BY: GB & JP
BIOLOGIST: JF
DATE:
02/08/2018
PROJECT NO:
US-PA-99-2
GLARO-PA2-003-1