

PREPARED FOR
THE PORT AUTHORITY
 OF NY & NJ

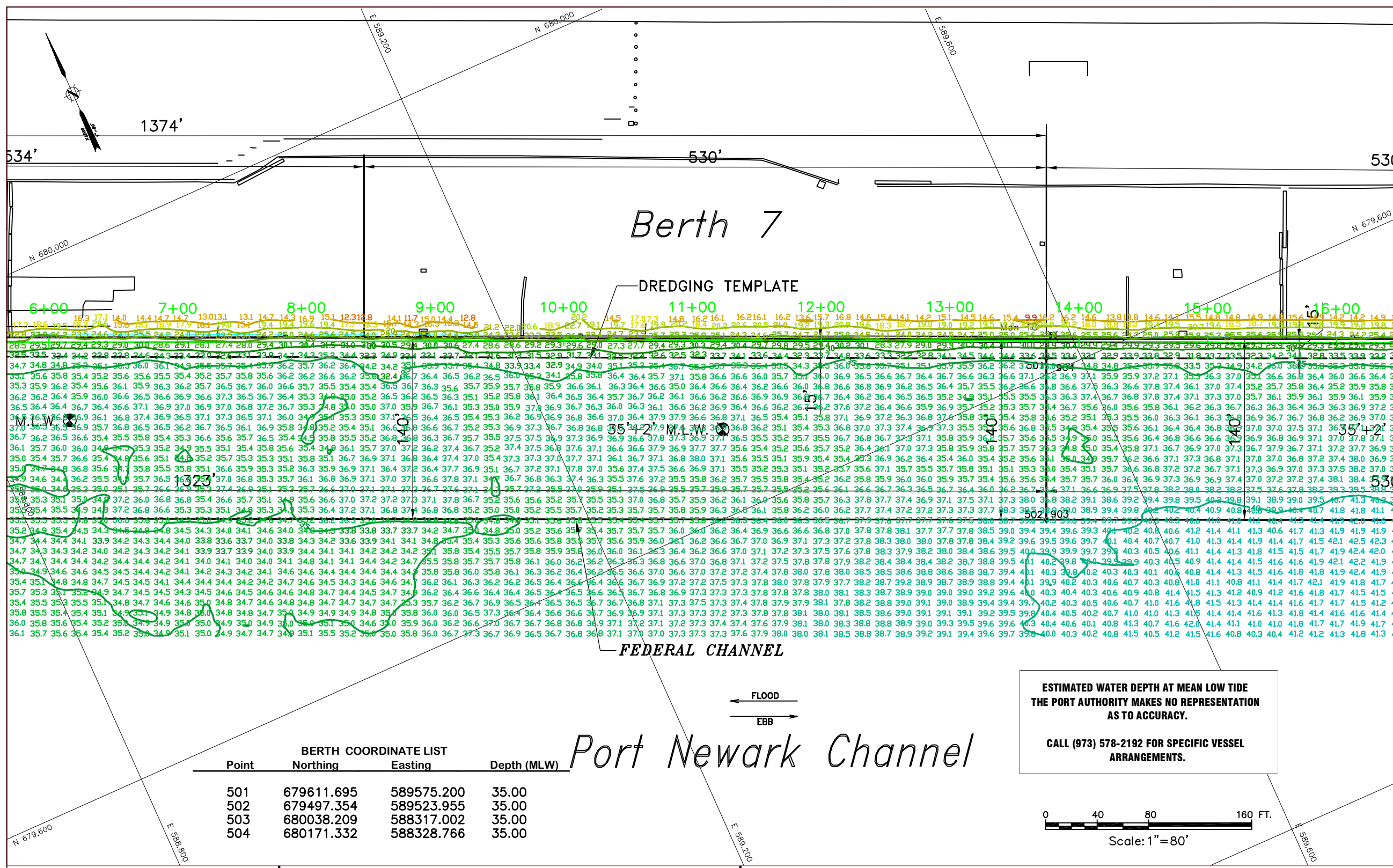


NEW JERSEY MARINE TERMINAL

HYDROGRAPHIC SURVEY

No. Date Revision Approved
 VERTICAL CONTROL
 Mean Low Water = 2.3' Below 0.00 NGVD '29
 HORIZONTAL CONTROL
 ALL COORDINATES, BEARING AND DISTANCES ARE REFERENCED TO THE NEW JERSEY PLANE COORDINATE SYSTEM (N.A.D. 83) AS SET FORTH IN N.J.S.A. 51:3-7

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.
 Rogers Surveying BW DWR
 Surveyed by DWR Drawn by BW Checked by DWR
 Date 12/10/12-01/17/13 Scale 1" = 80'
 Contract Number 410-12-037 Drawing Number 8 of 60
BERTH 7



BERTH COORDINATE LIST

Point	Northing	Easting	Depth (MLW)
501	679611.695	589575.200	35.00
502	679497.354	589523.955	35.00
503	680038.209	588317.002	35.00
504	680171.332	588328.766	35.00

Port Newark Channel

ESTIMATED WATER DEPTH AT MEAN LOW TIDE
 THE PORT AUTHORITY MAKES NO REPRESENTATION AS TO ACCURACY.
 CALL (973) 578-2192 FOR SPECIFIC VESSEL ARRANGEMENTS.

Volume Report

Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
35'	11,123 yd ³	7,492 yd ³	18,615 yd ³
TOTAL	11,123 yd³	7,492 yd³	18,615 yd³

NOTE: BERTH LENGTHS, WIDTHS AND DEEP WATER BERTH DIMENSIONS FROM P.A. PORT DEPARTMENT.
 Coordinates are expressed in feet and refer to the NEW JERSEY STATE PLANE (NAD 83) System.
 Soundings refer to Mean Low Water as determined by U.S.A.C.E.
 The Plane of Mean Low Water is 2.3 feet below Mean Sea Level (NGVD 29).
 Note:
 This survey does not guarantee the absence or presence of any underwater obstructions. Diver verification may be required.

NAVD88 3.42
 NGVD29 2.30
 MLW (N.O.A.A.) 0.67
 MLW (COE) & SURVEY 0.00
 I hereby certify to The Port Authority of New York and New Jersey that this map indicates the conditions existing as of the date indicated hereon to the best of my professional knowledge.
William A. Rogers, Jr., P.E., L.S.
 New Jersey State # 22254
 A.C.S.M. Certified Hydrographer # 151

NOTE:
 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 DATA IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS AND CONTOURS SHOWN ARE FROM 8'X16' GRID NEAREST TO CENTER. COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983). SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER THE PLANE OF MEAN LOW WATER IS 2.3 FEET BELOW NGVD (1929) THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING CLASS 2 SURVEY STANDARDS IN ACCORDANCE WITH EM 1110 2 1003.
 THIS SURVEY WAS COMPLETED USING THE FOLLOWING EQUIPMENT:
 • Survey Vessel "Red Rogers"
 • Reson 7101 Multibeam
 • TSS 320 POS/MV
 • Coastal Oceanographics "HYPACK" software