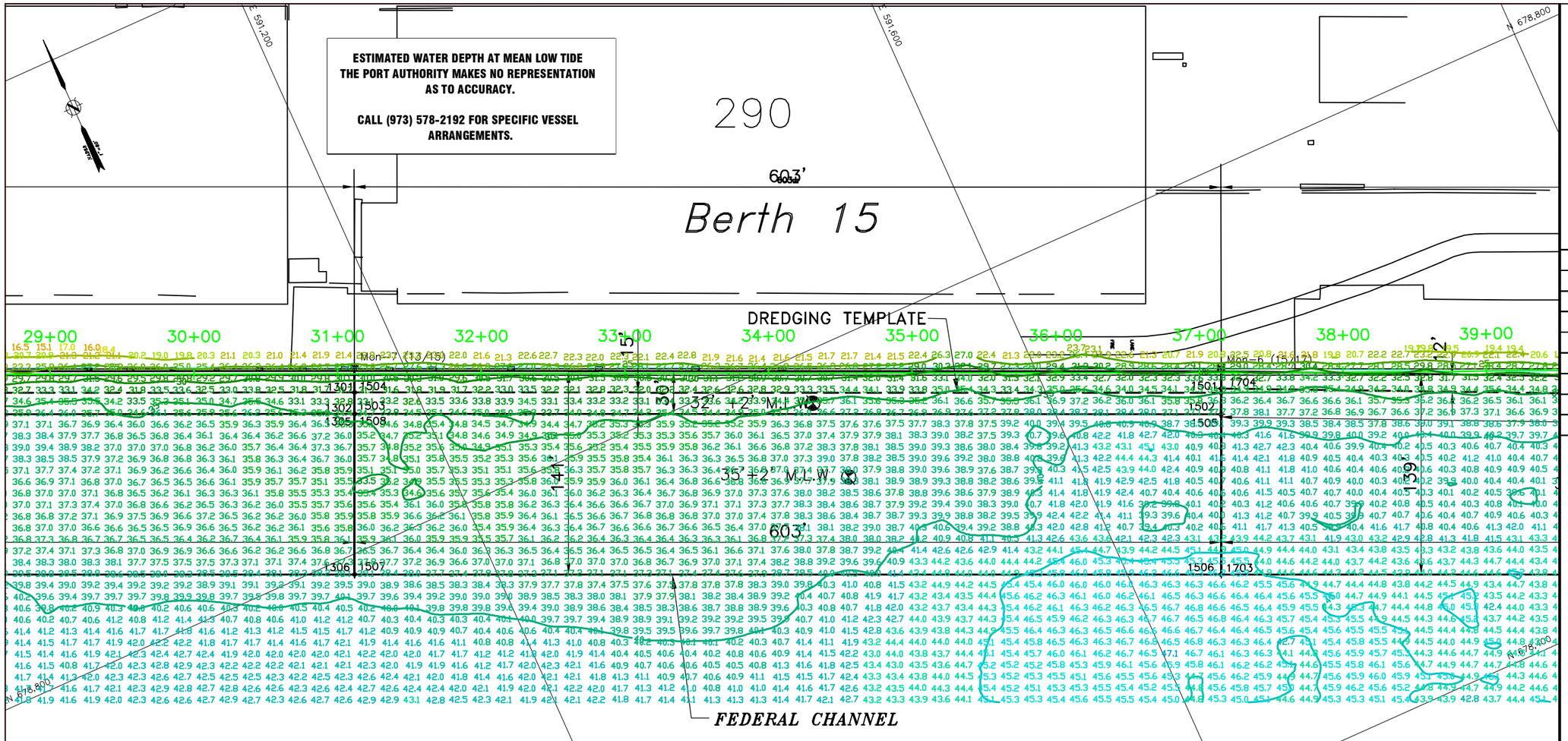

BERTH COORDINATE LIST

Point	Northing	Easting	Depth (MLW)
1501	678655.578	591711.352	32.00
1502	678641.890	591705.217	32.00
1503	678888.867	591154.822	32.00
1504	678902.555	591160.957	32.00
1505	678641.890	591705.217	35.00
1506	678540.140	591659.616	35.00
1507	678786.863	591109.107	35.00
1508	678888.867	591154.822	35.00

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

Volume Report

THE DATA USED FOR VOLUME CALCULATIONS IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS USED FOR VOLUME CALCULATIONS ARE ON A 3'X3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.

Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
32'	2 yd3	107 yd3	109 yd3
35'	35 yd3	1,188 yd3	1,223 yd3
TOTAL	37 yd3	1,295 yd3	1,332 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.) 0.87
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

PREPARED FOR
THE PORT AUTHORITY OF NY & NJ

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Staten Island, N.Y. 10310
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Title

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 it's written consent.

Rogers Surveying Surveyed by | BW Drawn by | DWR Checked by

Date 12/10/12-01/17/13
Scale 1"= 80'
Contract Number 410-12-037
Drawing Number 15 of 60
BERTH 15