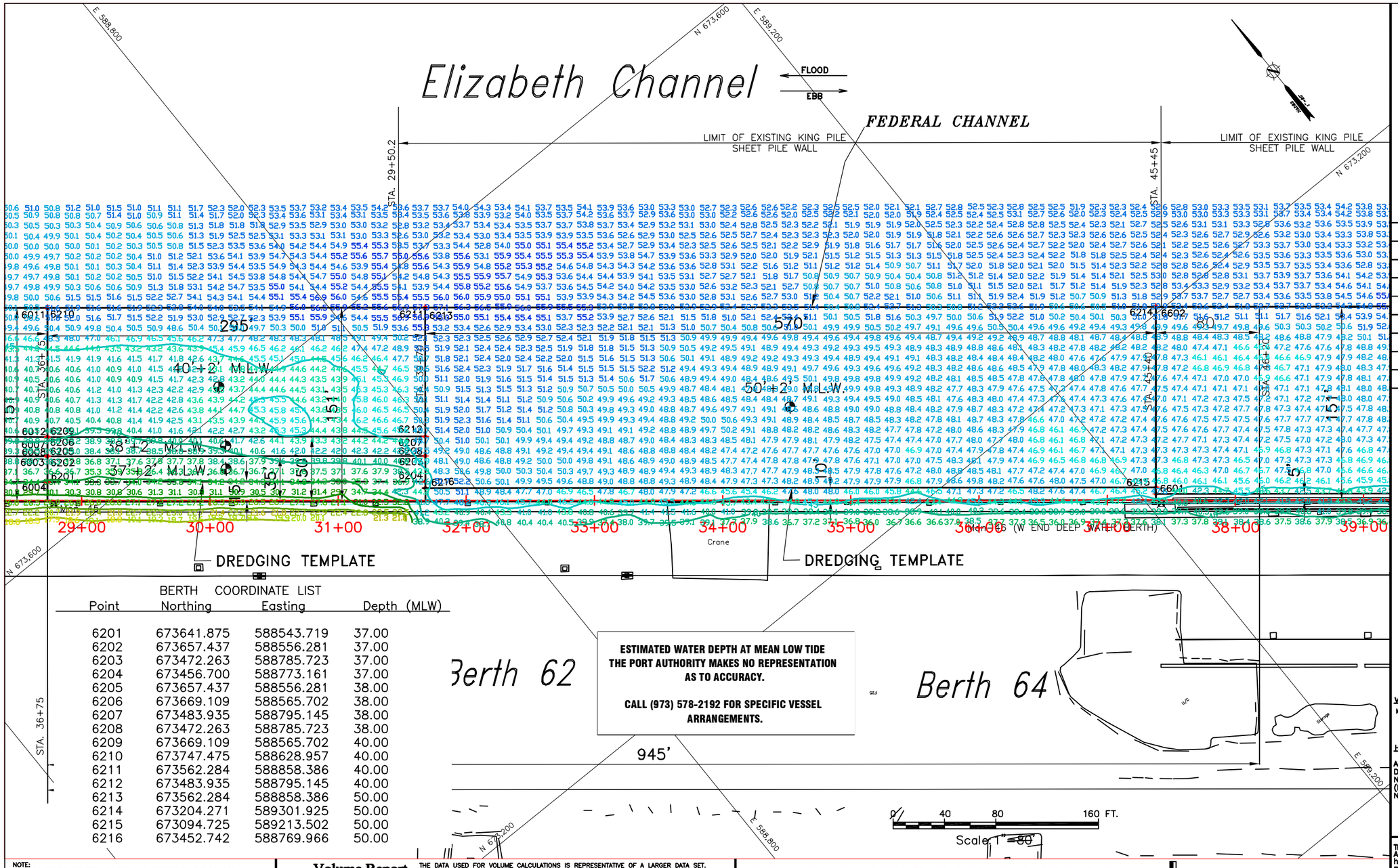

BERTH COORDINATE LIST			
Point	Northing	Easting	Depth (MLW)
6201	673641.875	588543.719	37.00
6202	673657.437	588556.281	37.00
6203	673472.263	588785.723	37.00
6204	673456.700	588773.161	37.00
6205	673657.437	588556.281	38.00
6206	673669.109	588565.702	38.00
6207	673483.935	588795.145	38.00
6208	673472.263	588785.723	38.00
6209	673669.109	588565.702	40.00
6210	673747.475	588628.957	40.00
6211	673562.284	588858.386	40.00
6212	673483.935	588795.145	40.00
6213	673562.284	588858.386	50.00
6214	673204.271	589301.925	50.00
6215	673094.725	589213.502	50.00
6216	673452.742	588769.966	50.00

ESTIMATED WATER DEPTH AT MEAN LOW TIDE THE PORT AUTHORITY MAKES NO REPRESENTATION AS TO ACCURACY.

CALL (973) 578-2192 FOR SPECIFIC VESSEL ARRANGEMENTS.

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
37'	77 yd3	251 yd3	328 yd3
38'	0 yd3	56 yd3	56 yd3
40'	2 yd3	197 yd3	199 yd3
50'	3,089 yd3	5,112 yd3	8,201 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

ROGERS SURVEYING, PLLC
1202 Richmond Terrace
Staten Island, N.Y. 10310
(718) 447-7311
www.rogerssurveying.net

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	BW	DWR
Surveyed by	Drawn by	Checked by

Date 12/10/12-01/17/13
Scale 1"= 80'
Contract Number 410-12-037
Drawing Number 44 of 60
BERTH 62 & 64