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PORT JERSEY  
BAYONNE , NEW JERSEY  
CONTRACT No. 410-10-037  
SURVEY No.

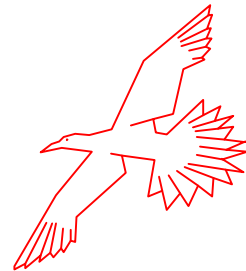
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HYDROGRAPHIC SURVEY  
July 11, 2011

PREPARED FOR

**THE PORT AUTHORITY**

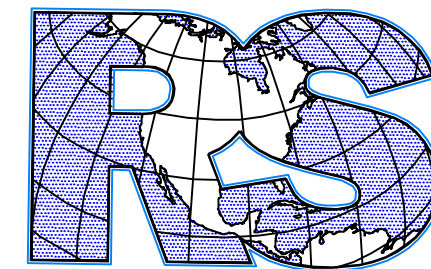
OF NY & NJ



- 1. INDEX
- 2. SHEETS 1 – 4



Vicinity Map



**ROGERS SURVEYING, PLLC**  
1632 Richmond Terrace  
Staten Island, N.Y. 10310  
(718) 447-7311

[www.rogerssurveying.net](http://www.rogerssurveying.net)





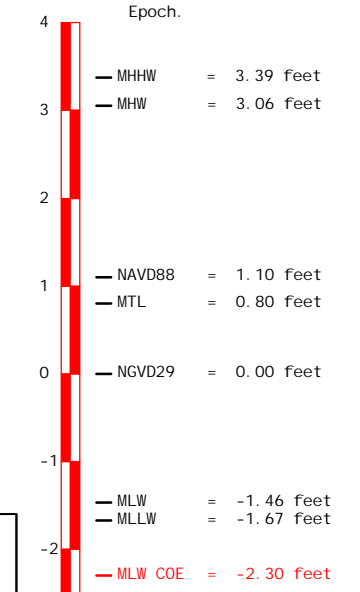








The NAVD 88 and the NGVD 29 elevations related to MLLW were computed from Bench Mark, R 340, at the station. Displayed tidal datums are referenced on 1983-2001 Epoch.



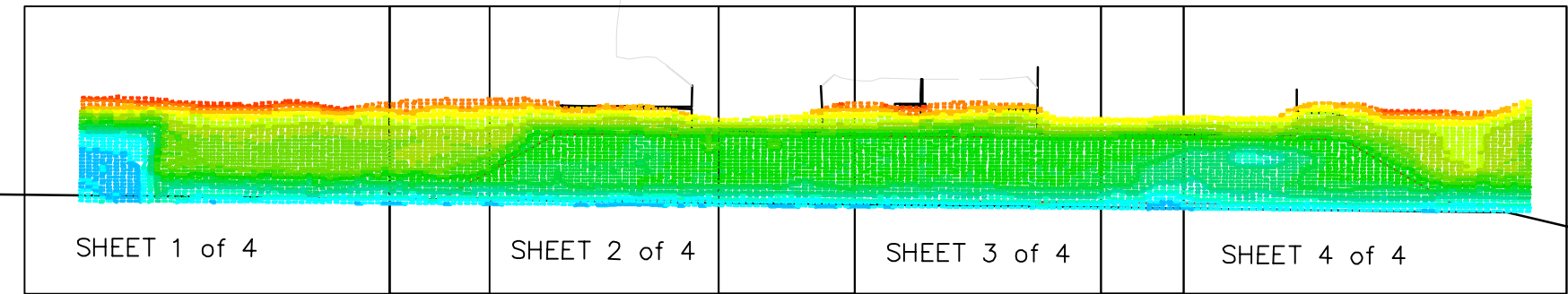
Soundings refer to MLW as determined by COE which is 0.63 feet below NOAA MLLW.

PREPARED FOR  
**THE PORT AUTHORITY  
OF NY & NJ**

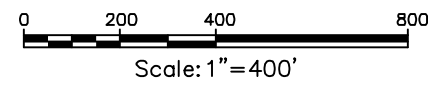


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PORT JERSEY



FLOOD ←  
→ EBB



Title  
**PORT AUTHORITY  
PORT JERSEY  
BERTHS**  
**HYDROGRAPHIC  
SURVEY AND BERTH  
VOLUME  
CALCULATIONS**

No.	Date	Revision	Approved

VERTICAL CONTROL  
Mean Low Water = 2.33' 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.

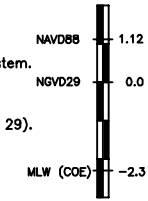
Rogers Surveying RAK DWR  
Surveyed by Drawn by Checked by  
Date 07/11/11 Scale 1"=400'  
Contract Number Drawing Number  
**410-07-030 35396**

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 Tide was monitored and recorded utilizing RTK GPS surveying techniques.  
Equipment Used  
\* Survey Vessel "Red Rogers"  
\* Reson 7101 Multibeam Sonar  
\* Trimble Pro Beacon Differential Signal Receiver  
\* Applanix 320 FOS/MV  
\* Coastal Oceanographic Hydrographic Surveying Software

Volume Report			
Design Depth	Volume to Dredge Template	Volume of 2' Overdredge	Total Volume
32'	1,068 yd <sup>3</sup>	10,021 yd <sup>3</sup>	11,089 yd <sup>3</sup>

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

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).



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