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Town Clerk
WAYNE H. WINK, JR.

Receiver of Taxes
CHARLES BERMAN

**TOWN OF NORTH HEMPSTEAD
DEPARTMENT OF PUBLIC WORKS**

**285 DENTON AVENUE
NEW HYDE PARK, NY 11040
(516) 739-6710
FAX (516) 739-6717**



Commissioner
PAUL J. DIMARIA, P.E.

Deputy Commissioner
ROBERT A. FAZIO

June 13, 2016

Re: Request for Letter Proposal
Dredging of North Hempstead Town Dock,
Main Street, Port Washington, NY
DPW Project No. 16-13

To whom it may concern,

The Town of North Hempstead (TNH), Department of Public Works is requesting a proposal from your firm to provide professional engineering services related to dredging dock area and channel associated with North Hempstead Town Dock.

Superstorm Sandy created a storm surge in Manhasset Bay which deposited material in the navigable areas. The material deposited in the Bay has limited access for large and small boats at Town Dock and pump out station. Furthermore, sediment accumulation has also impacted the Town's Public Safety Harbor Patrol. The Harbor Patrol docks their vessels at the bulkhead, but can only dock the vessels during high tide. The shallow water depths has impacted their ability to patrol and deploy safety missions from the dock.

A bathymetric survey was performed in April 2014 to establish existing bay floor areas and the channel it approaches. A copy of the report and survey is attached to RFP. The consultant will be responsible for providing engineering services to remove required volume of material necessary to provide dock access for both recreational and commercial craft, as well as the Harbor Patrol vessels. It is anticipated that approximately 22,400 cubic yards of material will need to be removed.

Consultant will provide following services:

1. Perform soil sampling and reporting as required by governmental agencies.
2. Prepare and file all applicable permits (**Identify any required permits in proposal.**)

3. Identify the volume of dredge material to be removed and appropriate removal and disposal methodology.
4. Prepare preliminary plans for Town to review.
5. Prepare and finalize design/bid documents for proposed work (construction plans and specifications. Specifications will follow Town Boiler Plate format).
6. Prepare construction estimate and schedule.
7. Conduct pre-bid activities up to contract award, respond to contactor questions and prepare any addenda necessary, review and evaluation of bid proposals.
8. Provide construction management/administration services including but not limited to; shop drawing review, part-time inspection services (100 inspection hours are estimated to complete project), review of contactor payment requisitions, project change orders, and regulatory compliance needs.

Please forward your response regarding your interest in performing this work, including a Letter Fee Proposal for completion of the work with details regarding your technical approach, schedule, and fee. The fee to perform the scope of services set forth in RFP is to be proposed on a lump sum basis. Consultant to include matrix indicating number of hours anticipated to complete task to support lump sum amount. Proposers must disclose the amount of the proposers' price proposal that constitutes profit and the percentage of the total proposed price that constitutes profit.

Consultant to deliver proposals (three hard copies with electronic copy) to the office of Department of Public Works by Friday, July 8, 2016, 3:30 pm.

Proposals will be reviewed by the Town according to the following criteria and will be scored using the scoring methodology described below:

Factor	Percentage of Score
Understanding of engineering tasks	20%
Technical approach	20%
Firm experience/Qualifications/Worked for TNH	20%
Man-hours/Fee ratio	20%
Engineering fee	20%

Note that the following conditions apply to this RFP:

1. There is no express or implied obligation for the Town to reimburse responding firms for any expenses incurred in preparing proposals in response to this RFP, and the Town will not reimburse such expenses.

2. During the evaluation process, the Town reserves the right, where it may serve the Town's best interest, to request additional information or clarification from a proposer, or to allow corrections on non-material errors or omissions or waive non-material requirements.

3. Submission of a proposal indicates acceptance by the firm of the conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted and confirmed in the contract between the Town and the firm selected.

4. The Town reserves the right, as best serves its interest, to change the due date for receipt of proposals.

5. The Firm selected to perform the services requested in this letter will be required to execute an agreement with the Town for the services on the Town's standard form. The selected firm will be required to, to the fullest extent provided by law, defend and indemnify and save harmless the Town from claims, suits, action, damages and costs of every nature, kind, name and description resulting from the negligent performance of the services. Such defense and indemnity shall not be limited by reason of enumeration of any insurance coverage provided by the firm. Negligent performance of service shall include, in addition to negligence founded upon tort, negligence based upon the firm's failure to meet professional standards and resulting in obvious or patent errors in the progression of its work. Nothing shall create or give third parties any claim or right of action against the firm or the Town beyond those provided by law. In addition, the selected firm will be required to procure and maintain during the term of any such agreement, with a carrier holding an "A" rating from AM Best Company, or its equivalent, and furnish certificates of insurance evidencing its procuring, the following insurance policies:

- a. Commercial General Liability insurance covering the liability of the firm, and indemnifying and holding harmless the Town, its agents, employees and representatives from any and all loss and/or damage arising out of the performance of the services with a combined single limit (bodily injury/property damage) of One Million Dollars (\$1,000,000). The Town shall be named as additional insured on said policy.
- b. Professional Errors and Omissions insurance in the minimum of One Million Dollars (\$1,000,000). The Town shall be named additional insured in such policy.
- c. Automobile Liability combined single limit of One Million Dollars (\$1,000,000). The Town shall be named additional insured in such policy.
- d. Excess Liability in the form of umbrella form of Four Million Dollars (\$4,000,000). The Town shall be named additional insured in such policy.
- e. Worker's Compensation insurance or proof of its not being required to secure same, as evidenced by certificates or affidavits approved by the State Workers' Compensation Board pursuant to State Workers' Compensation Law §57(2); and
- f. Disability benefits insurance or proof of its not being required to secure same, as evidenced by certificates or affidavits approved by the State Workers' Compensation Board pursuant to State Workers' Compensation Law §220(8).

6. Each proposer acknowledges that the services to be performed as described in this RFP may

be funded by monies received from the federal government. As such, the following terms and conditions will be included in any agreement between the Town and the successful Firm for the services, in addition to such contractual terms and conditions as may be required by the Town:

- a. Terms relating to termination for cause and convenience by notice to the Firm. Such terms will include that the Town will pay the firm for the services rendered in proportion to the services to be rendered in accordance with the agreement.
- b. A covenant by the Firm that is not listed on the governmentwide Excluded Parties List System in the System for Award Management (SAM), in accordance with the IMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1986 Comp., p. 189) and 12689 (3 CFR Part 1989 Comp., p. 235), "Debarment and Suspension" and that the Firm will not subcontract with any party listed on the above-referenced list. Along with its response to this RFP, each proposer shall complete and submit the "Debarment and Suspension Certification" attached to this RFP.
- c. A certification stating that (a) no Federal appropriated funds have been paid or will be paid, by or on behalf of the bidder or offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement and (b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. Along with its response to this RFO, each proposer shall complete and submit the "Byrd Anti-Lobbying Amendment Certification" attached to this RFP.
- d. A representation that the Town shall not be liable for any amounts over and above the amount stated in the agreement as consideration for the full and complete performance of the services listed in the agreement and that, if the firm incurs costs in excess of the amount of consideration stated in the agreement, the contractor will not be entitled to reimbursement, and the Town shall not be responsible to make reimbursement, of such excess costs.
- e. Provisions relating to compliance with the federal Clean Air Act and the Federal Water Pollution Control Act.
- f. Equal Opportunity Employment provisions stating:
 - (a) The Firm will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Firm will take affirmative action to ensure that applicants are employed, and that employees are treated during

employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Firm agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- (b) The Firm will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (c) The Firm will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Firm's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (d) The Firm will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (e) The Firm will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (f) In the event of the Firm's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (g) The Firm will include the portion of the sentence immediately preceding paragraph (1) rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Firm will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided, however,*

That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Firm may request the United States to enter into such litigation to protect the interests of the United States.

- g. Terms and conditions relating to Minority and Women-Owned Business Enterprise participation stating: "In accordance with Section 7(H) of the Town's Procurement Policy, the Consultant shall take all necessary affirmative steps to assure that minority businesses, women's business enterprises and labor surplus area firms are used whenever possible in subconsulting the services described in this Agreement. The term "Affirmative Steps" includes:
- (1) "Placing qualified small and minority businesses and women's business enterprises on solicitation lists. Consultant shall, prior to soliciting subconsultants, conduct research to locate minority businesses, women's business enterprises and businesses with labor surplus areas that have the potential to provide the materials, supplies or services that are the subject of the solicitation and research labor surplus areas in which the materials, supplies or services may be provided.
 - (2) "Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources. The businesses found by the procuring department shall be contacted and provided copies of the bid or other solicitation released by the procuring department.
 - (3) "Dividing total requirements, when economically and technically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises. An example of this would be dividing a total construction contract into electrical, HVAC, plumbing and general construction work.
 - (4) "Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises. The procuring department could accomplish this by taking into account the distance of particular businesses from the Consultant and the business' resources.
 - (5) "Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce
 - (6) "The Consultant, prior to entering into an agreement with a subconsultant, shall obtain the approval of the Town. The Contractor's request for approval shall contain documentation adequate to demonstrate the Consultant's compliance with the terms of this Section."
- h. Such other provisions as may be required by Part 200 of Title 2 of the Code of Federal Regulations and described in Appendix II to such Part.

Please contact me if you have any questions or require any other information.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Di" followed by a long horizontal stroke.

Paul J. DiMaria, P.E.
Commissioner

Cc: Rob Fazio

Debarment and Suspension Certification

The Bidder/Offeror certifies to the best of his or her knowledge and belief, that:

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that at the time the bidder or offeror submits its proposal that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

Name of Contractor: _____

Authorized Representative Name: _____

Signature of Authorized Representative: _____

Sworn to before this this _____

Day of _____, 2016

Notary Public

Byrd Anti-Lobbying Amendment Certification

The Offeror/Bidder certifies, by submitting this offer or bid, to the best of his or her knowledge and belief, that:

- 1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the bidder or offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

- 2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Name of Contractor: _____

Authorized Representative Name: _____

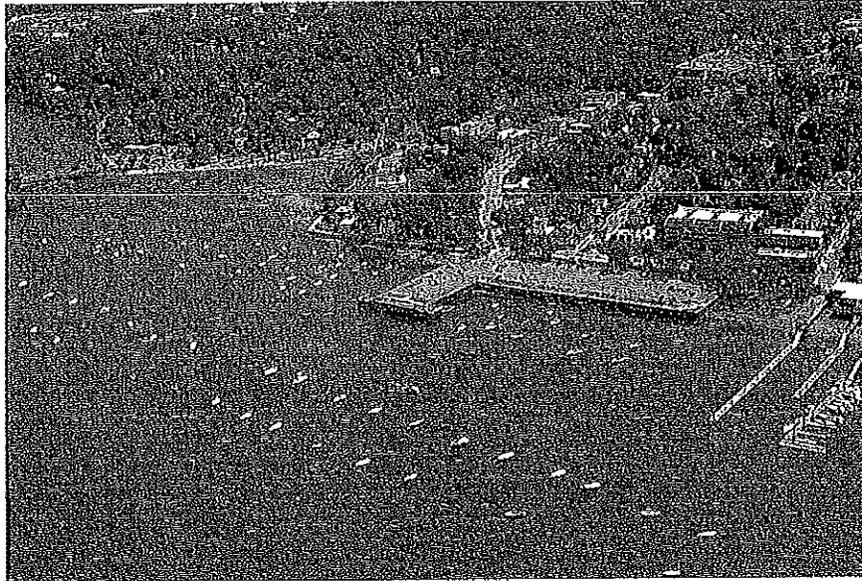
Signature of Authorized Representative: _____

Sworn to before this this _____

Day of _____, 2016

Notary Public

HURRICANE SANDY AQUATIC SAND REMOVAL



Town Of North Hempstead
Town Dock, Port Washington, NY
June 2014



www.bownegroup.com Fax: 516-747-1396

Prepared By:

Sidney B. Bowne & Son, LLP
235 East Jericho Turnpike
PO Box 109
Mineola, NY 11501-0109
Phone: 516-746-2330

Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL

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**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

1. OVERVIEW

Town Dock is located in Port Washington on the western side of N. Plandome Road on Manhasset Bay and is approximately 525,000 sf.

It is a Town facility providing significant parking, approximately 170 spaces, for residential access to the views of Manhasset Bay from the dock as well as access to the local shops and restaurants in the area.

The Town provides both recreational and commercial vessel dockage along the bulkhead as well as providing recreational mooring facilities. The Dock is used for Port Operation for Commercial Charter Dinner Cruise Lines that operates throughout the summer and fall. Additionally the Dock attracts large pleasure crafts and provides a water taxi service that ferries boat owners to their moorings. The recreational crafts have access to the sanitary pump-out facilities and accessory docking area for repairs or passenger pickup.

The Public Safety Patrol boat is stationed at the Dock and enforces the boater safety requirements on the water as well as responding to distress and boater accident requests, and assisting other police and safety agencies.

2. STORM SURGE EVENT

The impact of Hurricane Sandy in the Town Dock Park area caused widespread damage not only from high winds and rain but primarily from the storm surge that accompanied this event. The surge, estimated at approximately 10.50 feet elevation (NAVD 88), created disturbances by the wind, rain and currents that carried coastal sediments from the storm disturbance closer to land as it approached.

As the surge continued, it breached areas of the bulkhead and extended easterly to N. Plandome Road and flooded the northerly areas of Manorhaven and Port Washington North. It should be noted that N. Plandome Road is a coastal evacuation route for the northern peninsula of Port Washington.

As the surge receded, silt and sediment were dragged from the flooded topography, road surfaces, drainage facilities and the generally low lying mud flats and wetlands and deposited into the waters throughout Manhasset Bay and the Town Dock Area. The continuing rise and fall of the of the increased tides due to the surge, continued through several tide cycles adding further deposits to Manhasset Bay.

See Figure 1 – Hurricane Sandy Storm Tide Mapper Below.

Page 3 of 10

Sidney B. Bowne & Son, LLP

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

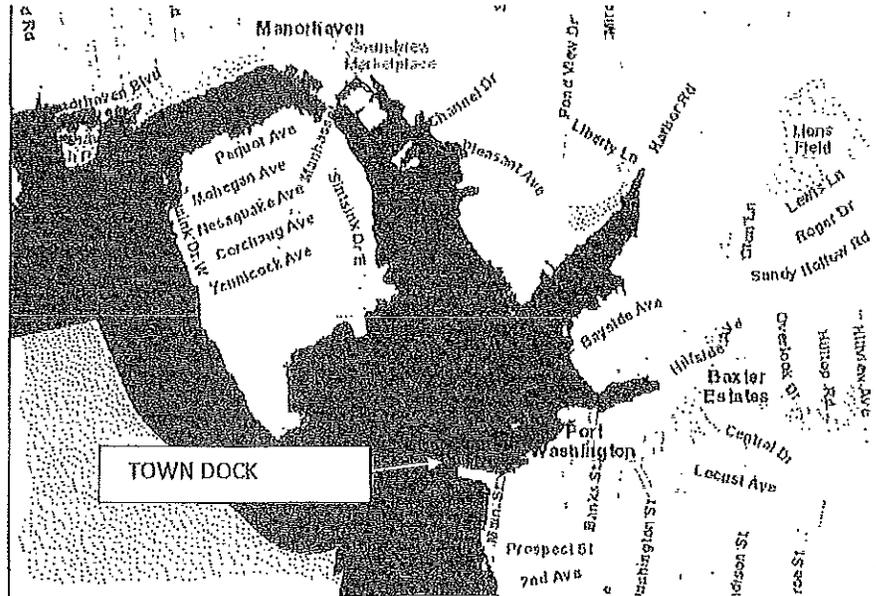


Figure 1 – Hurricane Sandy Storm Tide Mapper

3. IMPACT TO TOWN DOCK PARK

Although devastating to the community at the time of the event, the surge has led the Town to focus on assessing the conditions of Manhasset Bay in front of Town Dock and its' economic impacts on the Town.

The impact conditions of the Hurricane Sandy Storm event have been provided by the Town representatives involved in the day to day operations of the Dock and have determined that operational conditions have become a safety concern, as well as, restricting use of the Town Dock for both the recreational and commercial craft that utilized it in the past.

The Large Pleasure Craft and Charter Dinner Cruise Lines, up to 125 ft. In Length, were able to navigate, maneuver and dock around Town Dock Pre-Sandy. Since Post-Sandy these vessels have been limited to size and draft, and are restricted to approaching at high tide to minimize grounding problem as they approach the dock area. Additionally, they are also limited to only one vessel at a time due to the current depth below mean low water along the bulkhead. During normal conditions the Charter vessels can no longer utilize the Town Dock because of the build-up of aquatic sand in the bay and channel.

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

The Town's Public Safety Harbor Patrol operates out of the Town Dock facility. Pre-Sandy they were able to keep their patrol vessel docked at the bulkhead and have the ability to patrol and deploy safety missions from the dock. Since Post-Sandy with the depth of the dock area being so shallow from the aquatic sand build-up from storm and tidal surge they can only moor the vessel with high tide in the bay. This is causing a health & life safety issue for the harbor patrol and its inability respond to emergencies on the waterway in a timely and expeditious manner.

Pre-Sandy the Town was able to install and maintain mooring spaces that were double in capacity/quantities. Since Post-Sandy the Town had to reduce the quantities of useable moorings because of the lack of space with the aquatic sand build-up from Sandy's storm surge.

Further studies are being conducted by the Town to evaluate and quantify the integrity of the Town Dock bulkhead and infrastructure throughout the Dock Area in the aftermath of the storm surge breaching the bulkhead.

4. BATHYMETRY

A bathymetric survey, using sonar equipment, was conducted by Sidney B. Bowne & Son, LLP during April 2014 to determine the existing elevations of the Dock Area and channel approaches. No data is available to determine the pre-Sandy conditions, however, based on discussions with the Town representatives, conditions have substantially worsened since the Sandy storm event.

In order to provide an evaluation of the changes that have apparently occurred pre and post Sandy, the maps in Appendix B reference a theoretical Pre-Sandy Surface. This surface was determined by providing the depths that would have been necessary to accommodate the size and type of craft that were capable of docking and mooring at the facility that the Town operations representatives have indicated to be the norm at that time.

The proposed aquatic sand removal limit represented in this report on the Appendix B maps, was determined by removing the volume of material necessary to provide dock access and safety, mooring facilities and safe boater transportation for accommodating the larger craft, as well as, making the primary channel more uniform

If we compare what is believed to be the Pre-Sandy condition to the existing bottom based on the bathymetry collected, approximately 15,160 cubic yards of sand removal would be required. By comparing the existing bottom condition to the proposed aquatic sand removal limit, a total of 22,400 cubic yards of sand removal is required.

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

It is assumed that 35% of the removed material will require disposal in a permitted lined Land-fill and, 65% will be available for fill or replenishment in other areas within the Town.

5. REGULATORY OVERSIGHT AND PERMIT REQUIREMENTS

The waters of Manhasset Bay adjacent to Town Dock Park are regulated by the New York State Department of Environmental Conservation (NYSDEC), the Army Corps of Engineers (ACE) and Coastal Zone Management (CZM). This area is classified by the US Fish and Wildlife Service as Estuarine and Marine Deepwater (E1UBL) as noted on the National Wetlands Inventory Map (NWI).

Town Dock Park falls within the Federal Emergency Management Agency (FEMA) flood Zone AE, Base Flood Elevation (BFE) 13, Map Number 36059C0104G and is classified as part of "Special Flood Hazard Areas Subject to Inundation by the 1% Annual Chance Flood". Existing bulkhead elevations range from 8.4 to 11.45 (NAVD 88).

6. RECOMMENDATIONS

6.1. LONG TERM MAINTENANCE

With respect to hardening for future storm surge events, it should be considered to secure a ten (10) year dredging and sediment removal permit from the NYSDEC at this time.

6.2. COSTS

The cost for the proposed sand removal is estimated to be \$ 6,611,216.00 (see Table 1). This estimate will be revised during the design phase.

Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL

TABLE 1

ITEM	UNITS		\$/UNIT	EXTENSION
General Contractor				
Mobilization	1	Ea.	\$50,000.00	\$50,000.00
Demobilization	1	Ea.		\$0.00
Aquatic Sand Removal/Disposal/Replenishment	22,400.00	CY	\$230.00	\$5,152,000.00
Sub-total				\$5,202,000.00
Sub-Total				\$5,202,000.00
General Conditions	3.00%		Lump Sum	\$156,060.00
Contingency	10.00%		Lump Sum	\$520,200.00
Total General Contractor Cost				\$5,878,260.00
Engineering				
Design Services	7.50%		Lump Sum	\$440,869.50
Permitting	1.50%		Lump Sum	\$88,173.90
Construction Administration	3.00%		Lump Sum	\$176,347.80
Construction Inspections & Oversight	120	Days	\$1,200.00	\$144,000.00
Total Soft Costs				\$849,391.20
Total Project Cost				
Total Project Cost				\$6,727,651.20

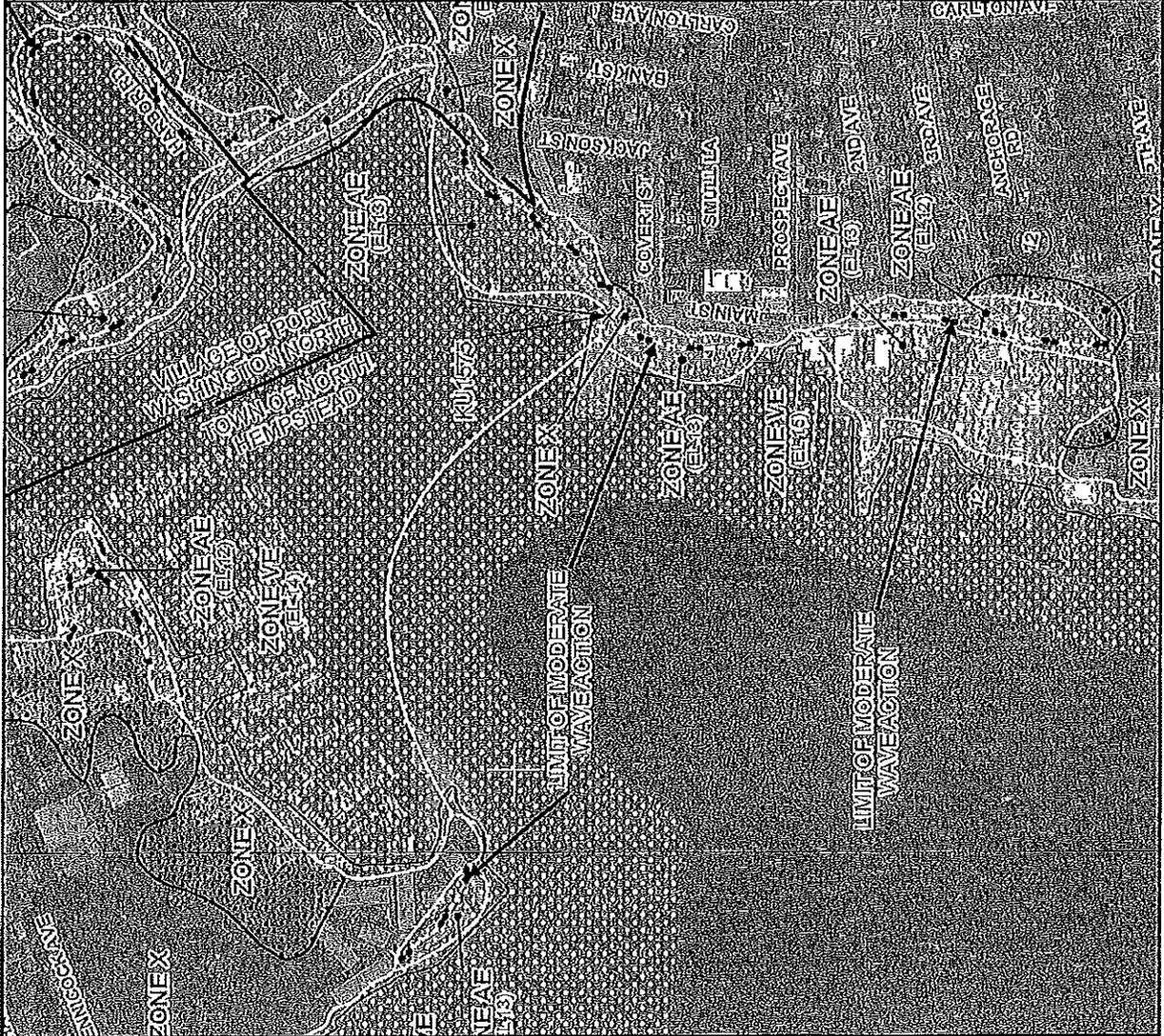
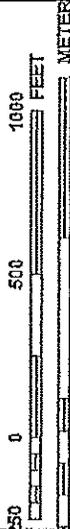
Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL

APPENDIX A
FEMA FLOOD ZONES

National Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0104G

FIRM

FLOOD INSURANCE RATE MAP
FOR NASSAU COUNTY, NEW YORK
(ALL JURISDICTIONS)

CONTAINS	COMMUNITY	NUMBER
	BAWTER ESTATES, VILLAGE OF	360489
	FLOWER HILL, VILLAGE OF	361604
	KINGS POINT, VILLAGE OF	360473
	MANORHAVEN, VILLAGE OF	360479
	NORTH HEMPSTEAD, TOWN OF	360462
	FLANDROME MANOR, VILLAGE OF	360486
	PORT WASHINGTON NORTH, VILLAGE OF	361562
	SANDS POINT, VILLAGE OF	360482

PANEL 104 OF 366

MAP SUFFIX: G
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notes to User: The Map Number shown below should be used with the map sheet to identify the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
3605900104G
MAP REVISED
SEPTEMBER 11, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.fema.gov

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

APPENDIX B

Town Dock Bathymetric Survey & Cross-Sections



LEGEND

- 8--- EXISTING CONTOUR ELEV.
- 8----- PROPOSED CONTOUR ELEV.

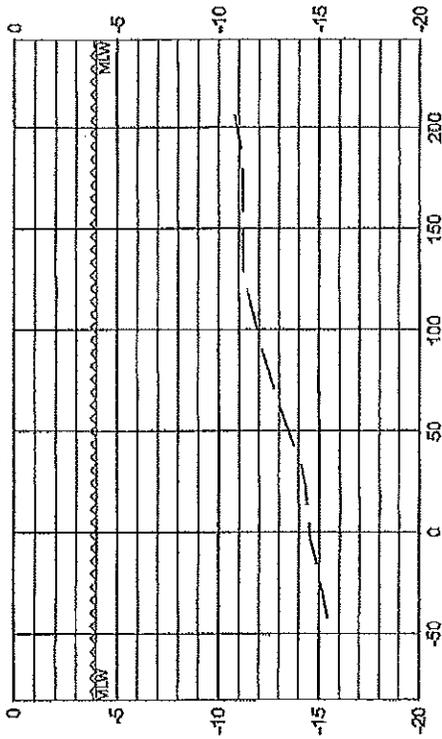
-----8----- PROPOSED CONTOUR ELEV.

BOWNE
Sidney B. Bowne & Son, LLP
 235 East Jericho Turnpike, Mineola, NY 11501
 Phone: 516-746-2350 Fax: 516-747-1396
 www.bownegroup.com

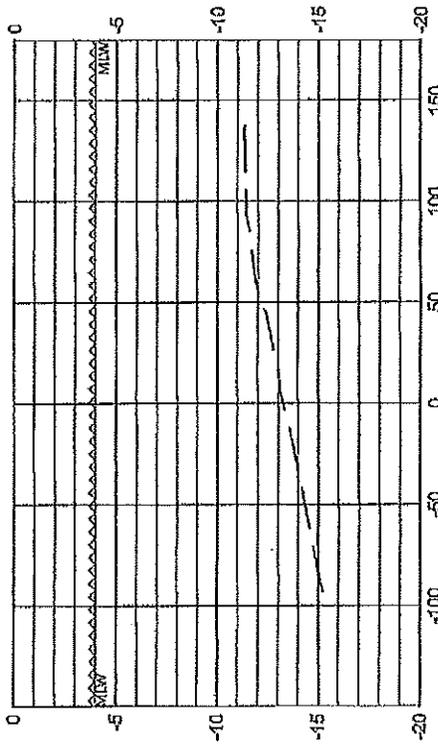
CHANNEL BATHYMETRY STA. 0+00 to 21+00
 TOWN DOCK CHANNEL
 TOWN of NORFolk HEMPSTEAD
 STORM MITIGATION PROJECT

DESIGNED BY:	SF	SCALE:	1" = 20'
CHECKED BY:	LL	DATE:	JUNE 2004
PROJECT NUMBER:	11338258	SHEET:	OVER-

Section at Sta. 2+00



Section at Sta. 1+00

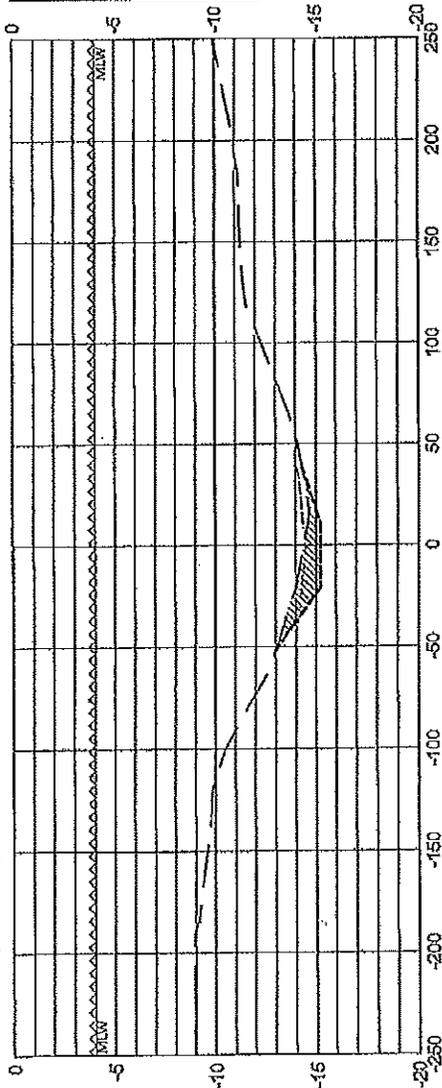


LEGEND

WATER LEVEL	
PRE STORM	
EXISTING GRADE	
PROPOSED GRADE	
DREDGE AREA	

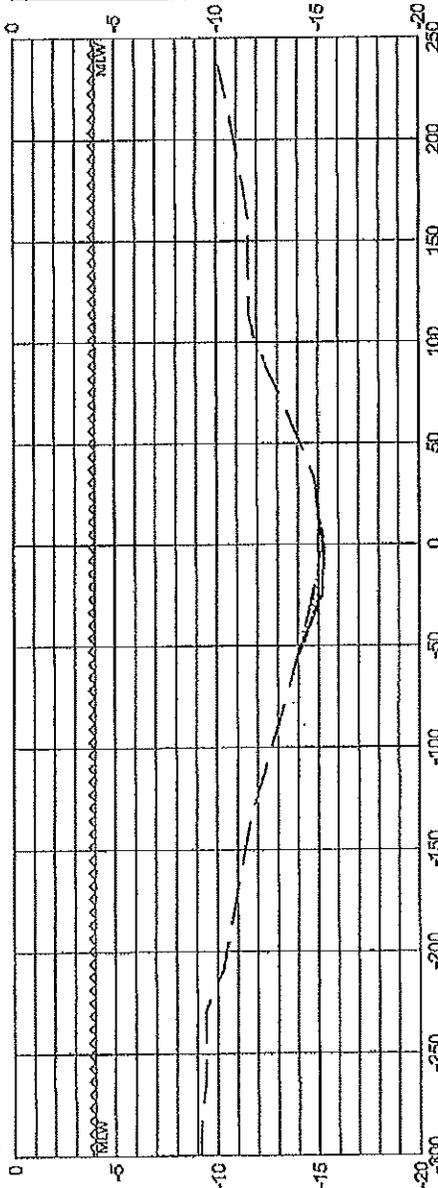
 Sidney B. Bowne & Son, LLP 235 East Jericho Turnpike, Mineola, NY 11501 Phone: 516-746-2350 Fax: 516-747-1396 www.bownegroup.com	CHANNEL SECTIONS STA. 1+00 TO 2+00 TOWN DOCK CHANNEL TOWN OF NORTH HEMPSTEAD STORM MITIGATION PROJECT		DESIGNED BY: SF CHECKED BY: LL	SCALE: 1" = 80' DATE: JUNE 2014
			PROJECT NUMBER: 1138238	SHEET: SEC-1

Section at Sta. 4+00



Adjustment at Sta. 4+00		
Material Name	Dredge Material	Pre vs Existing
Area	53 SF	21 SF
Volume	126 CY	39 CY
Cumulative Volume	152 CY	39 CY

Section at Sta. 3+00



Adjustment at Sta. 3+00		
Material Name	Dredge Material	Pre vs Existing
Area	14 SF	0 SF
Volume	27 CY	0 CY
Cumulative Volume	27 CY	0 CY

LEGEND

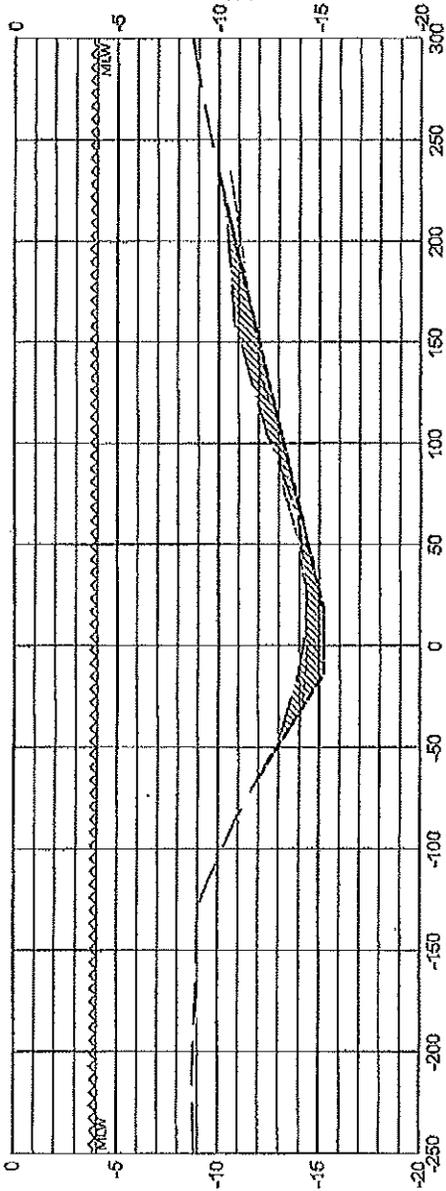
- WATER LEVEL
- PRE STORM
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA

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CHANNEL SECTIONS STA. 3+00 TO 4+00
 TOWN DOCK CHANNEL
 TOWN OF NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

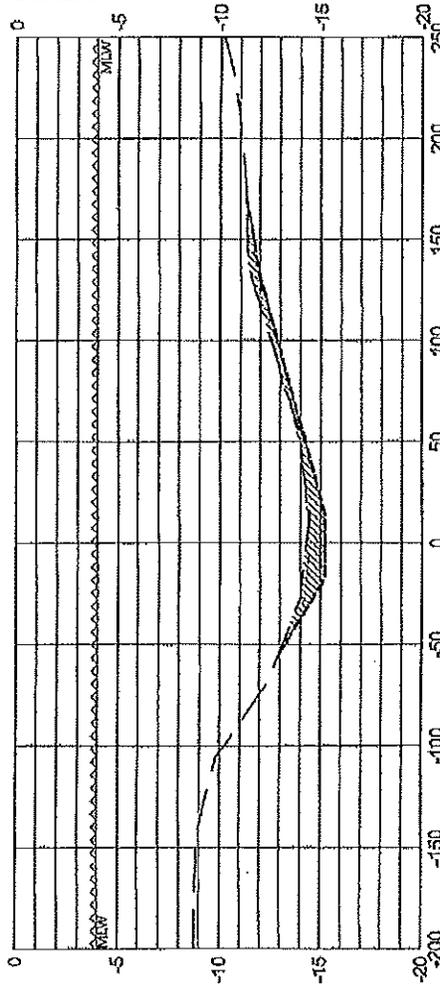
DESIGNED BY: SF SCALE: 1" = 80'
 CHECKED BY: LL DATE: JUNE 2014
 PROJECT NUMBER: 11338258 SHEET: SEC-2

Section at Sta. 6+00



Adjustment at Sta. 6+00		
Material Name	Dredge Material	Pre vs Existing
Area	171 SF	119 SF
Volume	497 CY	263 CY
Cumulative Volume	929 CY	395 CY

Section at Sta. 5+00



Adjustment at Sta. 5+00		
Material Name	Dredge Material	Pre vs Existing
Area	98 SF	29 SF
Volume	280 CY	93 CY
Cumulative Volume	432 CY	132 CY

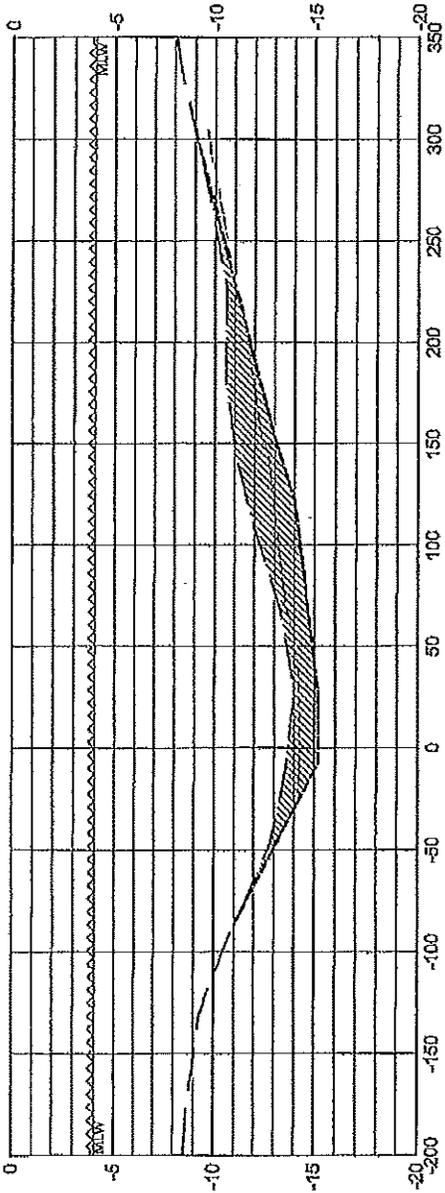
- LEGEND**
- ~~~~~ WATER LEVEL
 - _____ PRE STORM
 - _____ EXISTING GRADE
 - _____ PROPOSED GRADE
 - ▨ DREDGE AREA

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CHANNEL SECTIONS STA. 5+00 TO 6+00
 TOWN DOCK CHANNEL
 TOWN of NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

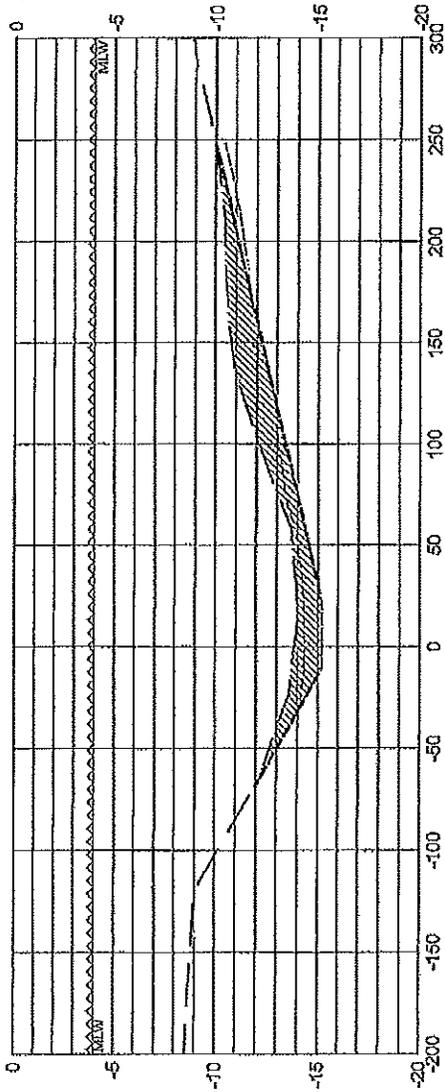
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CHECKED BY:	LL	DATE:	JUNE 2014
PROJECT NUMBER:	11538258	SHEET:	SEC-3

Section at Sta. 8+00



Adjustment at Sta. 8+00		
Material Name	Dredge Material	Pre vs Existing
Area	431 SF	268 SF
Volume	1,348 CY	922 CY
Cumulative Volume	3,146 CY	1,949 CY

Section at Sta. 7+00



Adjustment at Sta. 7+00		
Material Name	Dredge Material	Pre vs Existing
Area	298 SF	228 SF
Volume	867 CY	632 CY
Cumulative Volume	1,796 CY	1,027 CY

LEGEND

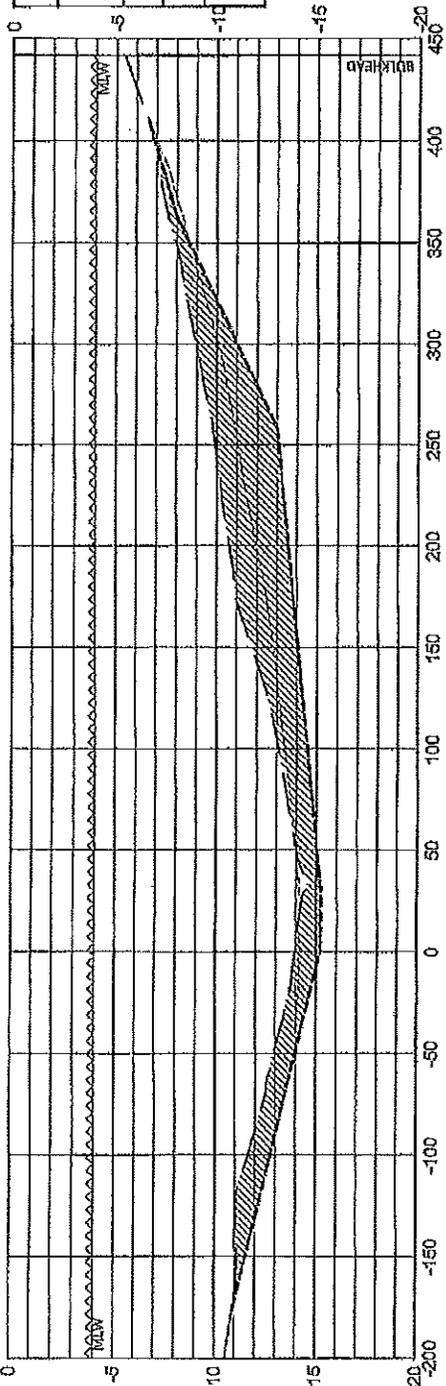
- WATER LEVEL
- PRE STORM
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA

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CHANNEL SECTIONS STA. 7+00 to 8+00
 TOWN DOCK CHANNEL
 TOWN of NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

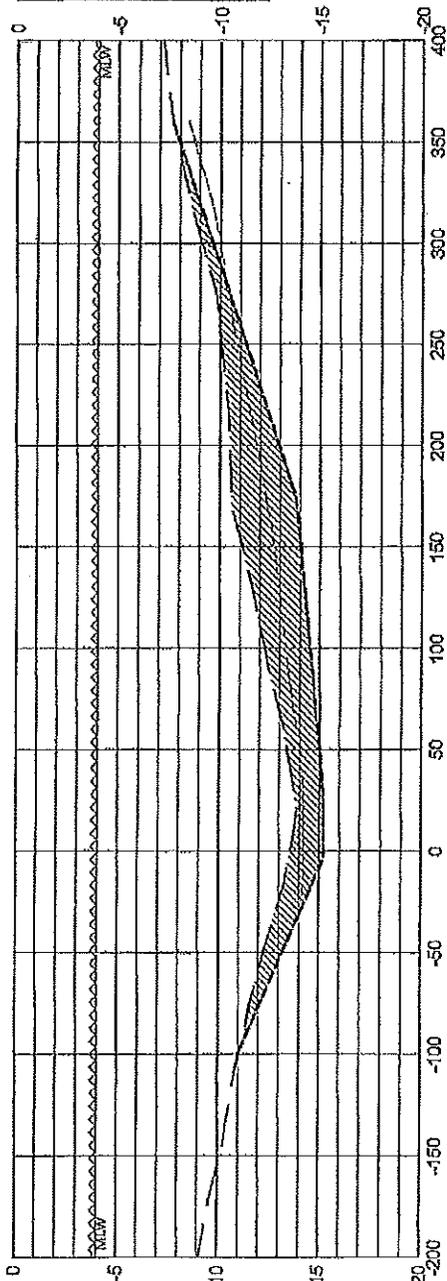
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CHECKED BY:	LL	DATE:	JUNE 2014
PROJECT NUMBER:	11338258	SHEET:	SEC-4

Section at Sta. 10+00



Adjustment at Sta. 10+00			
Material Name	Dredge Material	Pre vs Existing	
Area	865 SF	313 SF	
Volume	2,866 CY	1,306 CY	
Cumulative Volume	8,072 CY	4,481 CY	

Section at Sta. 9+00



Adjustment at Sta. 9+00			
Material Name	Dredge Material	Pre vs Existing	
Area	683 SF	393 SF	
Volume	2,061 CY	1,226 CY	
Cumulative Volume	5,206 CY	3,175 CY	

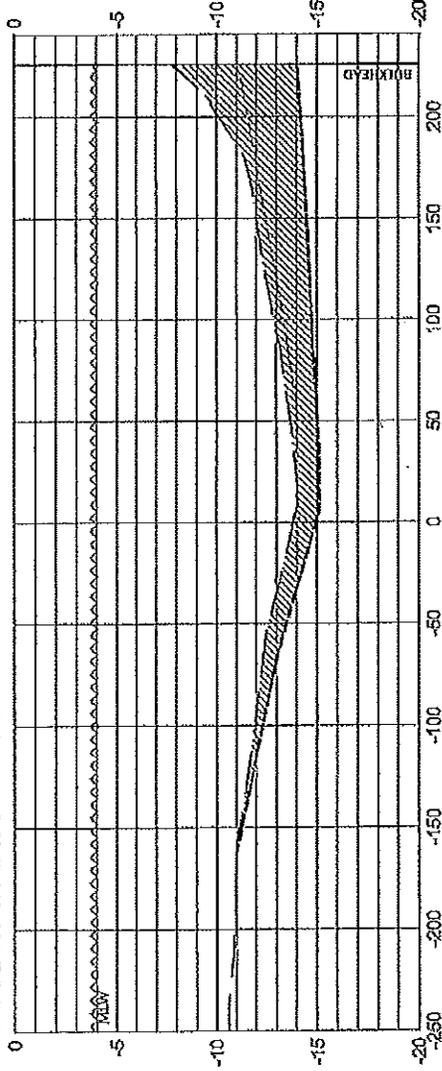
- LEGEND**
- WATER LEVEL
 - PRE STORM
 - EXISTING GRADE
 - PROPOSED GRADE
 - DREDGE AREA

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CHANNEL SECTIONS STA. 9+00 TO 10+00
 TOWN DOCK CHANNEL
 TOWN OF NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

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 PROJECT NUMBER: 11338258 SHEET: SEC-5

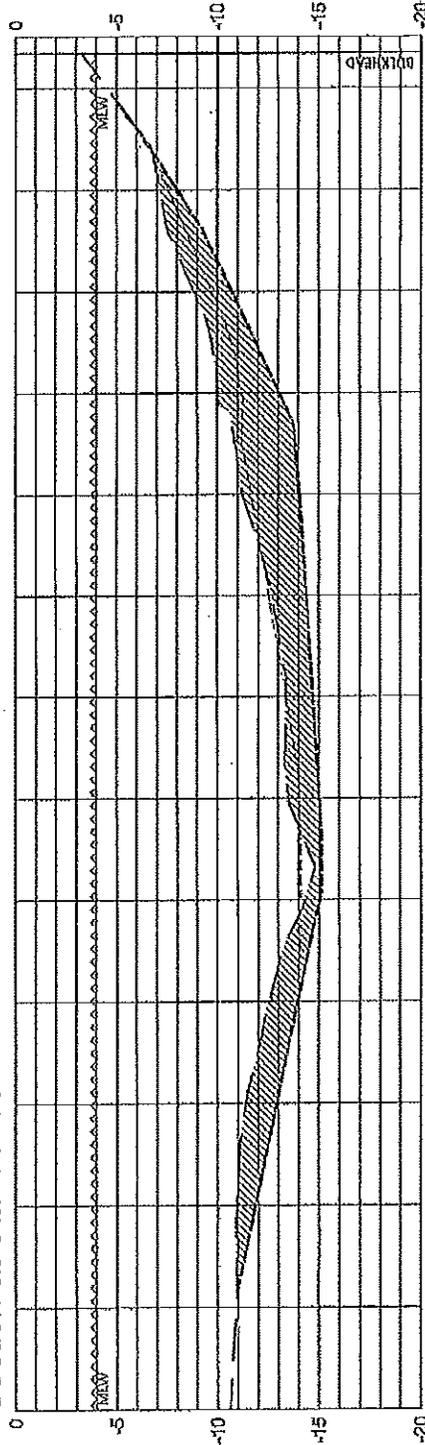
Section at Sta. 11+50



Adjustment at Sta. 11+50			
Material Name	Dredge Material	Pre vs Existing	
Area	515 SF	160 SF	
Volume	1,369 CY	301 CY	
Cumulative Volume	12,642 CY	5,667 CY	

Adjustment at Sta. 11+00			
Material Name	Dredge Material	Pre vs Existing	
Area	863 SF	165 SF	
Volume	3,201 CY	885 CY	
Cumulative Volume	11,273 CY	5,866 CY	

Section at Sta. 11+00



LEGEND

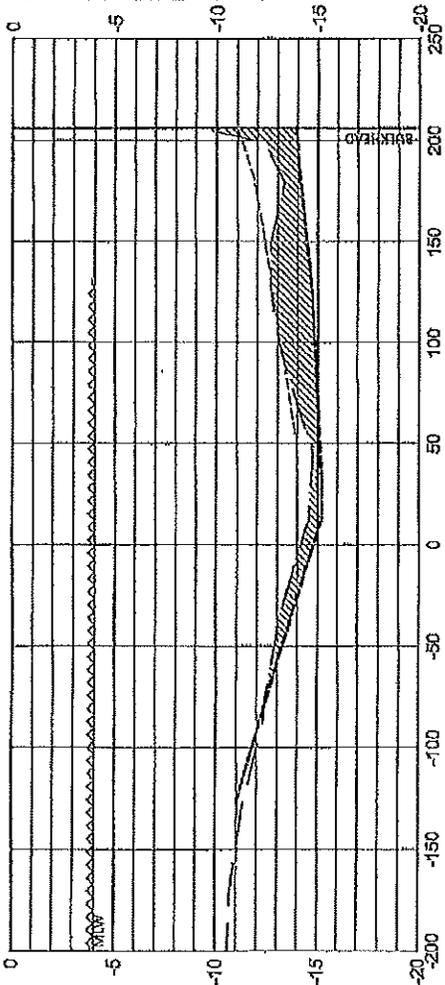
- WATER LEVEL
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA
- PRE STORM

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CHANNEL SECTIONS STA. 11+00 TO 11+50
 TOWN DOCK CHANNEL
 TOWN OF NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

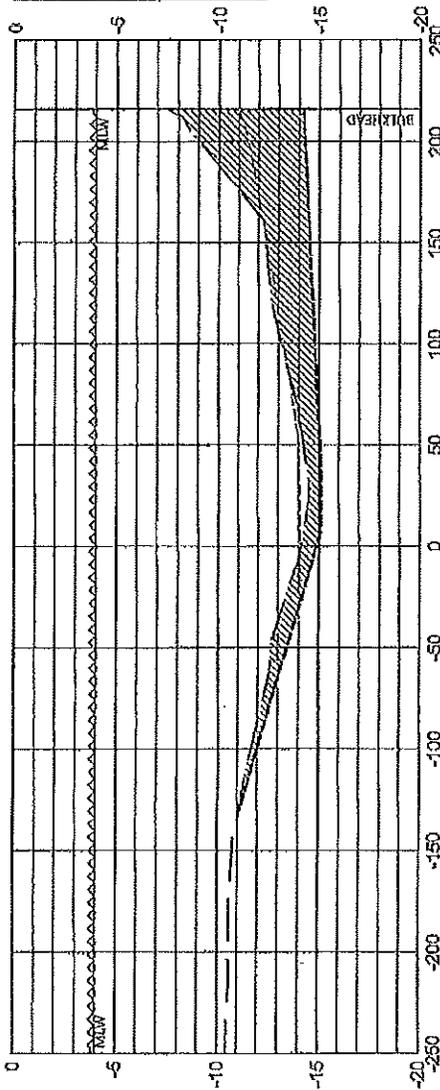
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 CHECKED BY: LL DATE: JUNE 2014
 PROJECT NUMBER: 11538258 SHEET: SEC-6

Section at Sta. 12+50



Adjustment at Sta. 12+50		
Material Name	Dredge Material	Pre vs Existing
Area	301 SF	15 SF
Volume	762 CY	118 CY
Cumulative Volume	14,458 CY	6,037 CY

Section at Sta. 12+00



Adjustment at Sta. 12+00		
Material Name	Dredge Material	Pre vs Existing
Area	522 SF	112 SF
Volume	1,053 CY	252 CY
Cumulative Volume	13,695 CY	5,919 CY

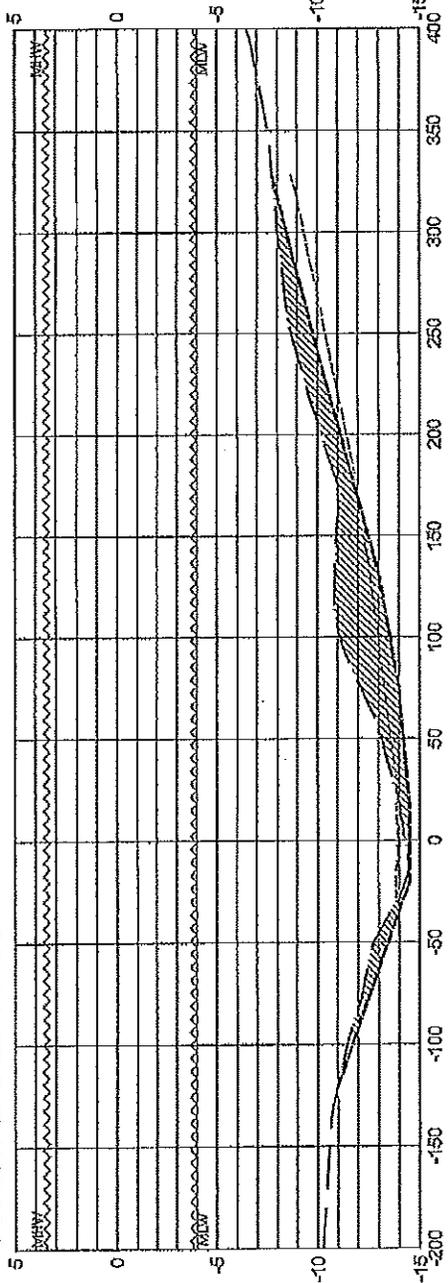
- LEGEND
- WATER LEVEL
 - PRE STORM
 - EXISTING GRADE
 - PROPOSED GRADE
 - DREDGE AREA

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CHANNEL SECTIONS STA. 12+00 TO 12+50
 TOWN DOCK CHANNEL
 TOWN OF NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

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PROJECT NUMBER:	11538258	SHEET:	SEC-7

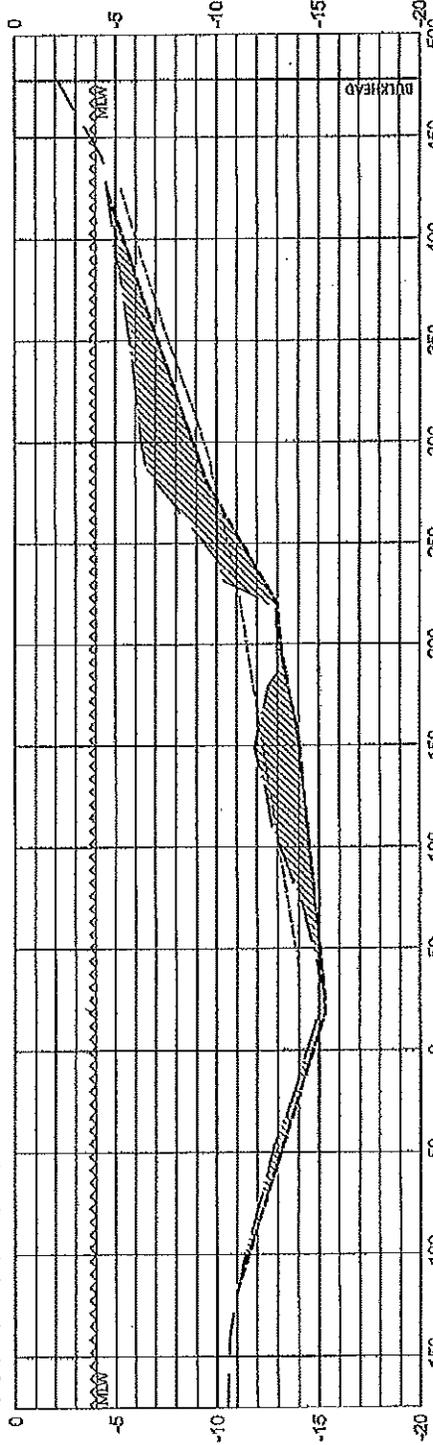
Section at Sta. 14+00



Material Name	Dredge Material	Pre vs Existing
Area	417 SF	390 SF
Volume	1,778 CY	1,428 CY
Cumulative Volume	17,019 CY	7,824 CY

Material Name	Dredge Material	Pre vs Existing
Area	544 SF	378 SF
Volume	783 CY	364 CY
Cumulative Volume	15,240 CY	6,401 CY

Section at Sta. 13+00



LEGEND

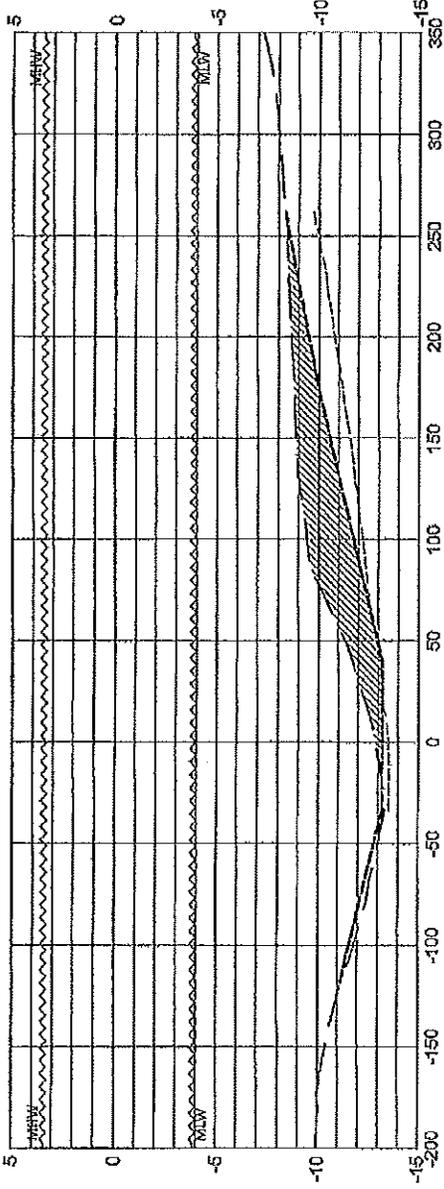
- WATER LEVEL
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA
- PRE STORM

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CHANNEL SECTIONS STA. 13+00 TO 14+00
 TOWN DOCK CHANNEL
 TOWN OF NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

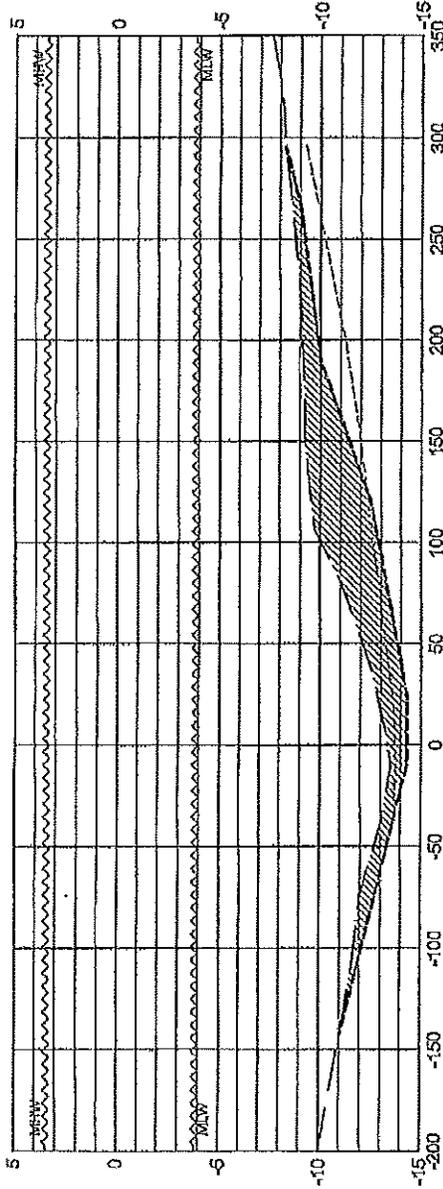
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 PROJECT NUMBER: 1133238 SHEET: SEC-8

Section at Sta. 16+00



Adjustment at Sta. 16+00			
Material Name	Dredge Material	Pre vs Existing	
Area	351 SF	651 SF	
Volume	1,576 CY	2,020 CY	
Cumulative Volume	20,292 CY	11,586 CY	

Section at Sta. 15+00



Adjustment at Sta. 15+00			
Material Name	Dredge Material	Pre vs Existing	
Area	500 SF	539 SF	
Volume	1,898 CY	1,722 CY	
Cumulative Volume	18,716 CY	9,546 CY	

LEGEND

WATER LEVEL

PRE STORM

EXISTING GRADE

PROPOSED GRADE

DREDGE AREA

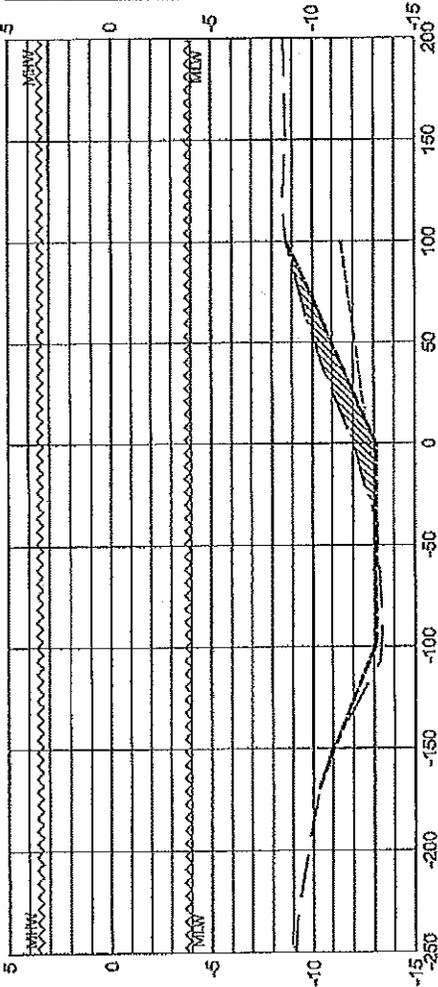


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CHANNEL SECTIONS STA. 15+00 to 16+00
 TOWN DOCK CHANNEL
 TOWN of NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

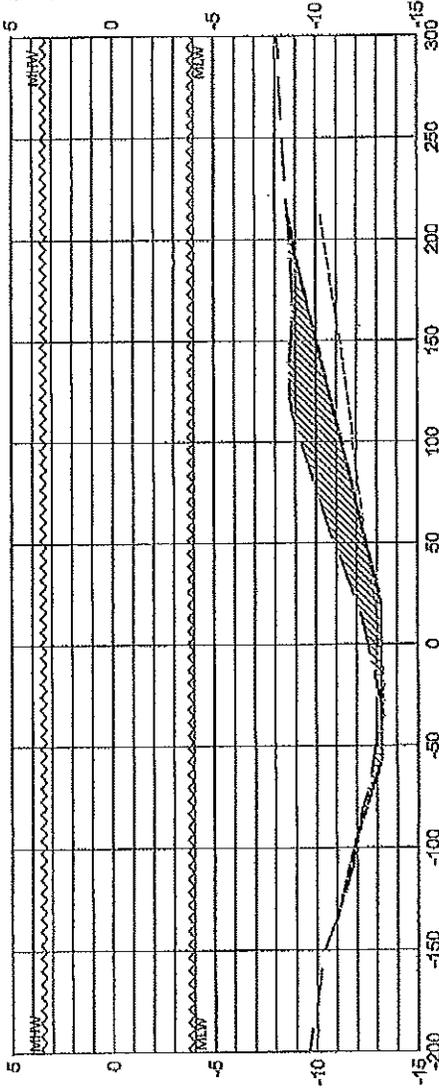
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CHECKED BY:	LL	DATE:	JUNE 2014
PROJECT NUMBER:	115336258	SHEET:	SEC-9

Section at Sta. 18+00



Adjustment at Sta. 18+00			
Material Name	Dredge Material	Pre vs Existing	
Area	96 SF	208 SF	
Volume	718 CY	1,170 CY	
Cumulative Volume	22,202 CY	14,541 CY	

Section at Sta. 17+00



Adjustment at Sta. 17+00			
Material Name	Dredge Material	Pre vs Existing	
Area	292 SF	424 SF	
Volume	1,191 CY	1,805 CY	
Cumulative Volume	21,484 CY	13,371 CY	

LEGEND

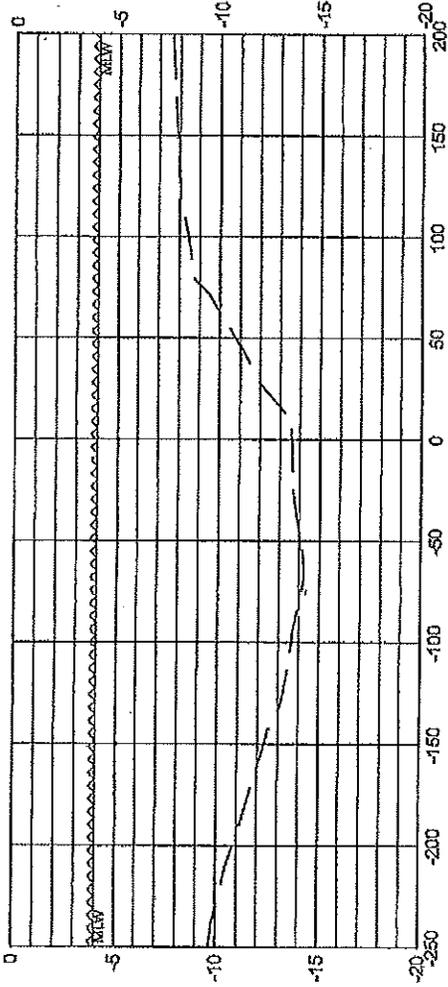
- WATER LEVEL
- PRE STORM
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA

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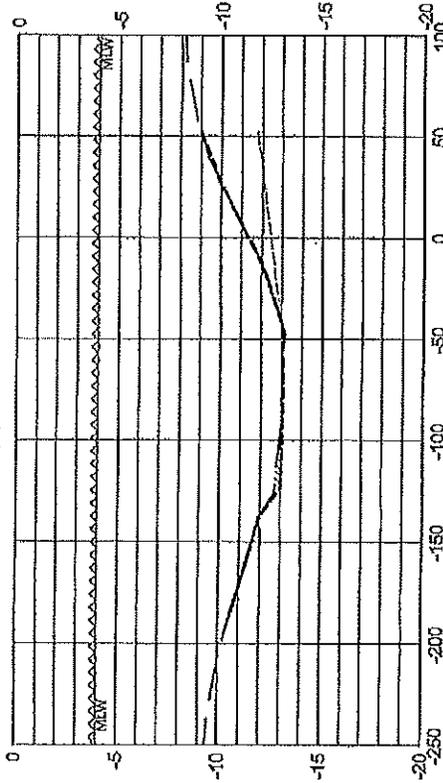
CHANNEL SECTIONS STA. 17+00 TO 18+00
 TOWN DOCK CHANNEL
 TOWN of NORTH HEMPSTEAD
 STORM MITIGATION PROJECT

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PROJECT NUMBER:	11538258	SHEET:	SEC-11

Section at Sta. 20+00



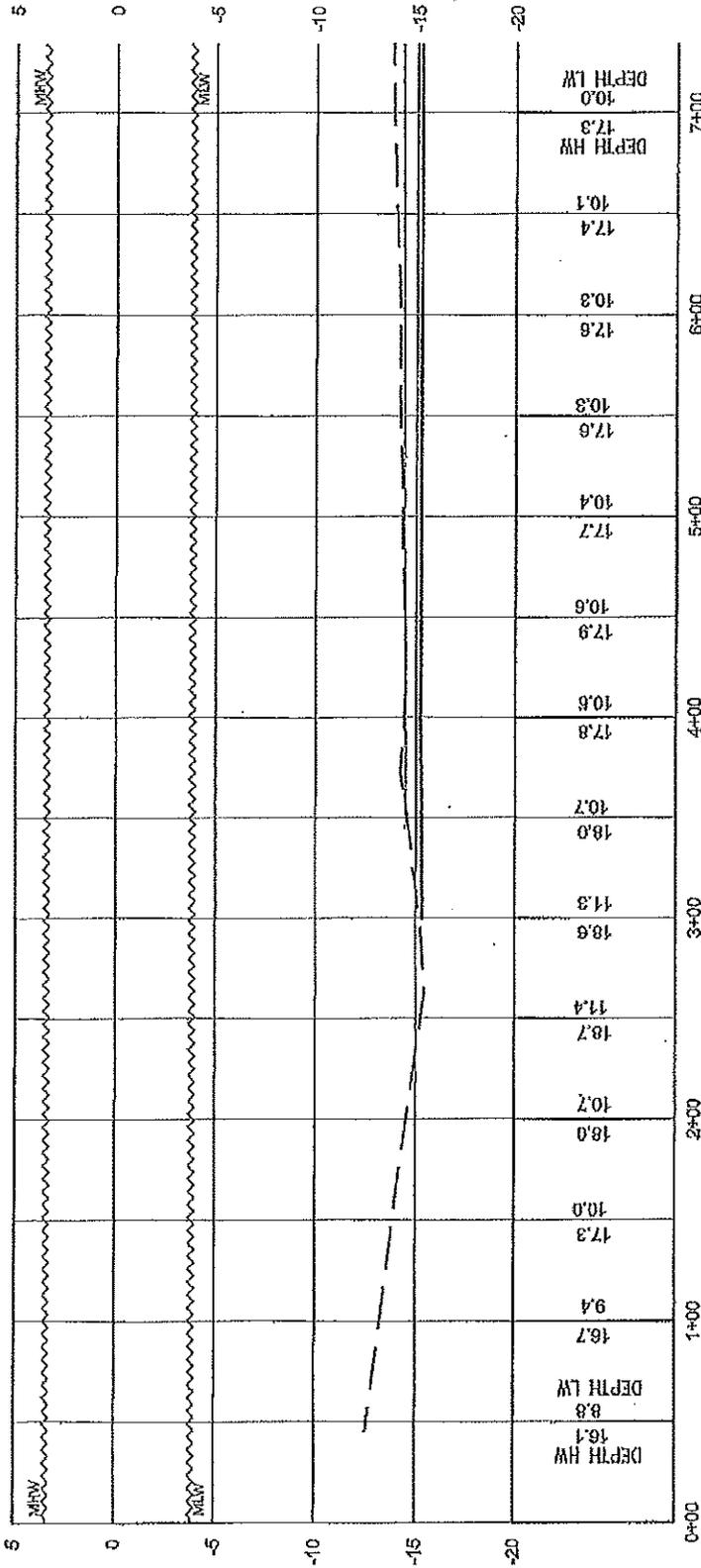
Section at Sta. 19+00



LEGEND

- WATER LEVEL
- PRE STORM
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA

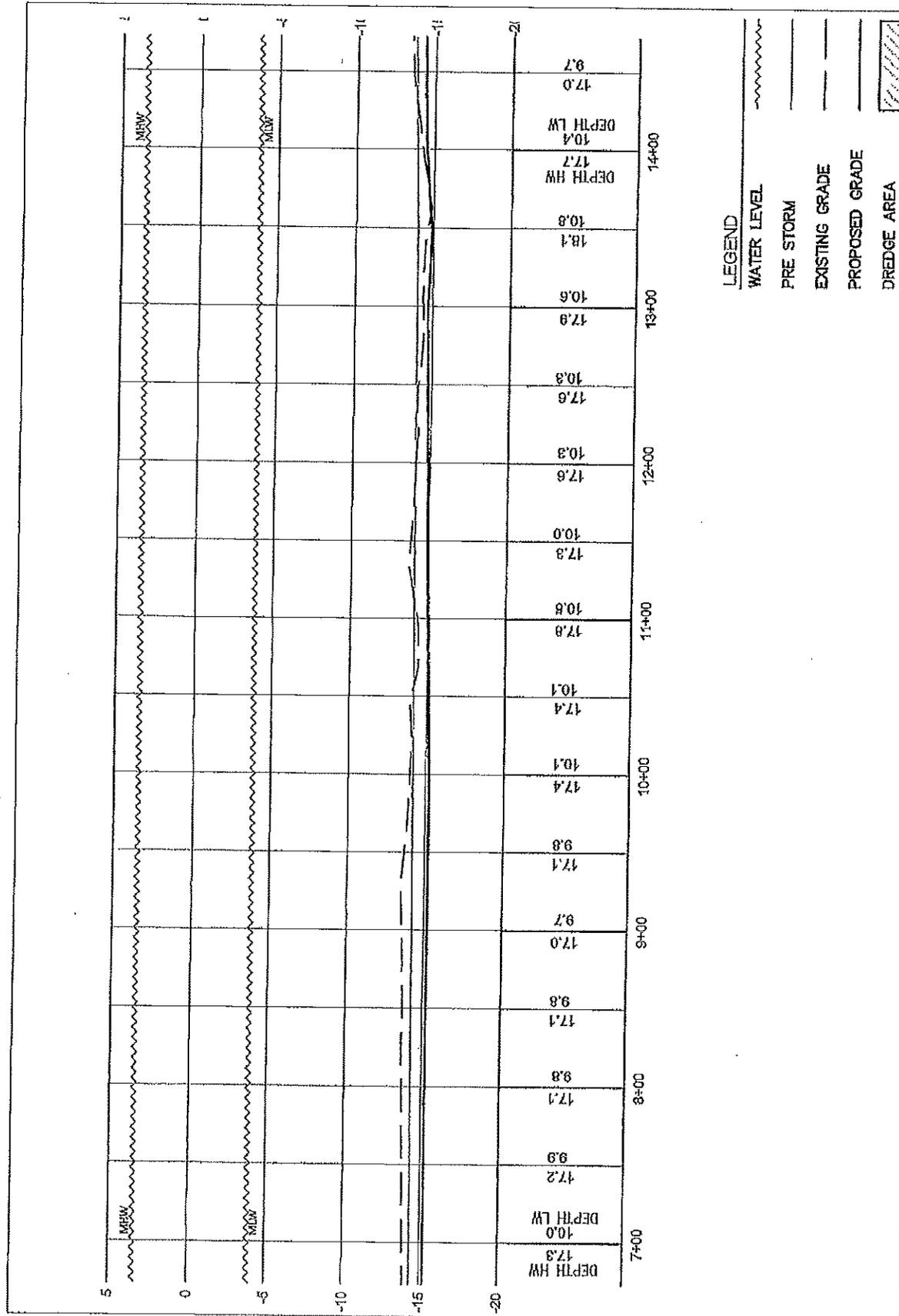
BOWNE GROUP ENGINEERS ARCHITECTS PLANNERS	CHANNEL SECTIONS STA. 19+00 to 20+00 TOWN DOCK CHANNEL TOWN OF NORTH HEMPSTEAD STORM MITIGATION PROJECT		DESIGNED BY: SF CHECKED BY: LL PROJECT NUMBER: 11338258	SCALE: 1"=80 DATE: JUNE 2014 SHEET: SEC-1"
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LEGEND

- WATER LEVEL
- PRE STORM
- EXISTING GRADE
- PROPOSED GRADE
- DREDGE AREA

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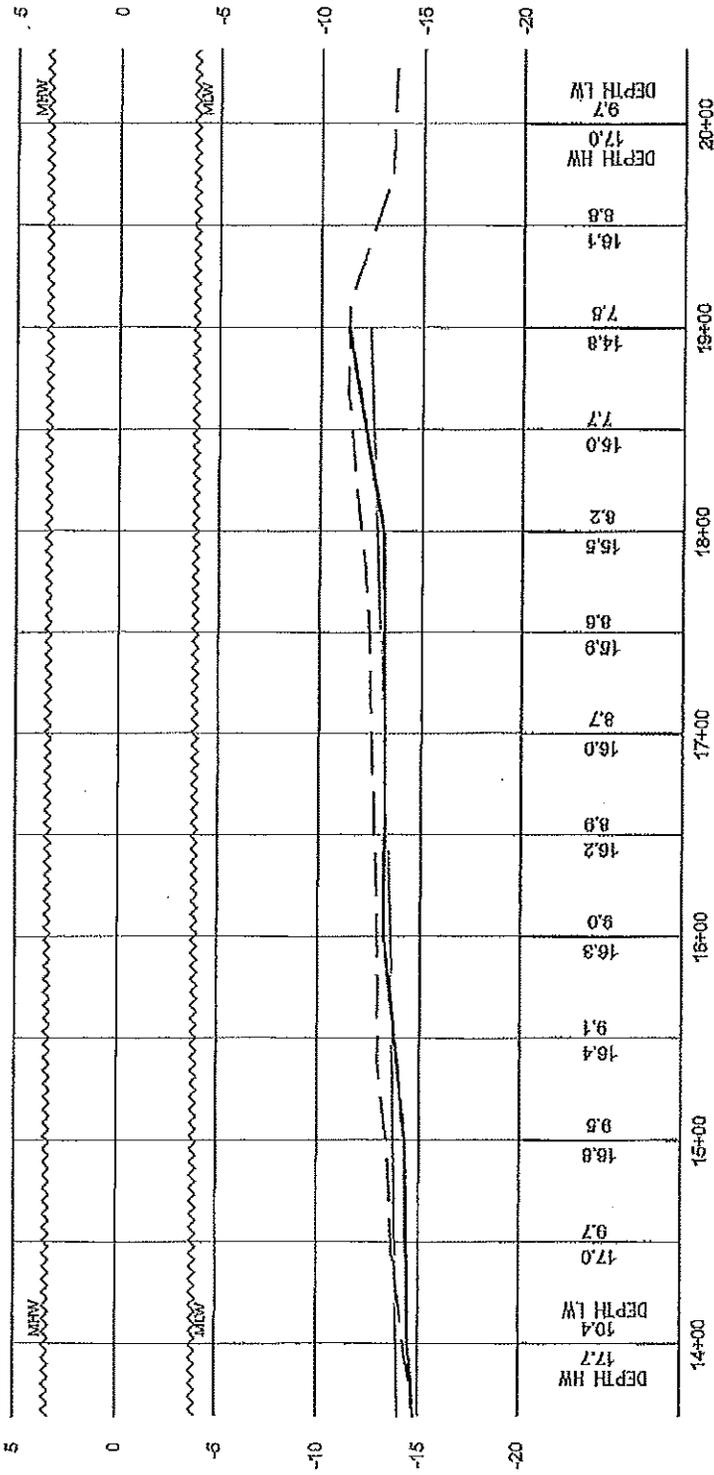


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 PROJECT NUMBER: 11538258 SHEET: PROF.

LEGEND
 WATER LEVEL
 PRE STORM
 EXISTING GRADE
 PROPOSED GRADE
 DREDGE AREA



LEGEND

WATER LEVEL

PRE STORM

EXISTING GRADE

PROPOSED GRADE

DREDGE AREA

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	PROJECT NUMBER: 11538258 SHEET: PROF-4	CHECKED BY: LL DATE: JUNE 2014	PROJECT NUMBER: 11538258 SHEET: PROF-4

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

APPENDIX C

Photos

Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL



PHOTO 1 – Along West Dock Area



PHOTO 2 – Along West Dock Area

**Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL**

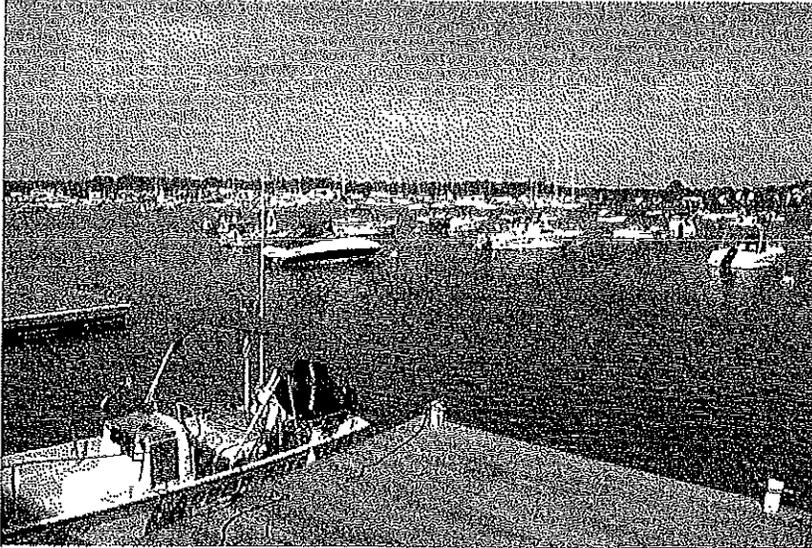


PHOTO 3 – View Looking Southwest from Dock

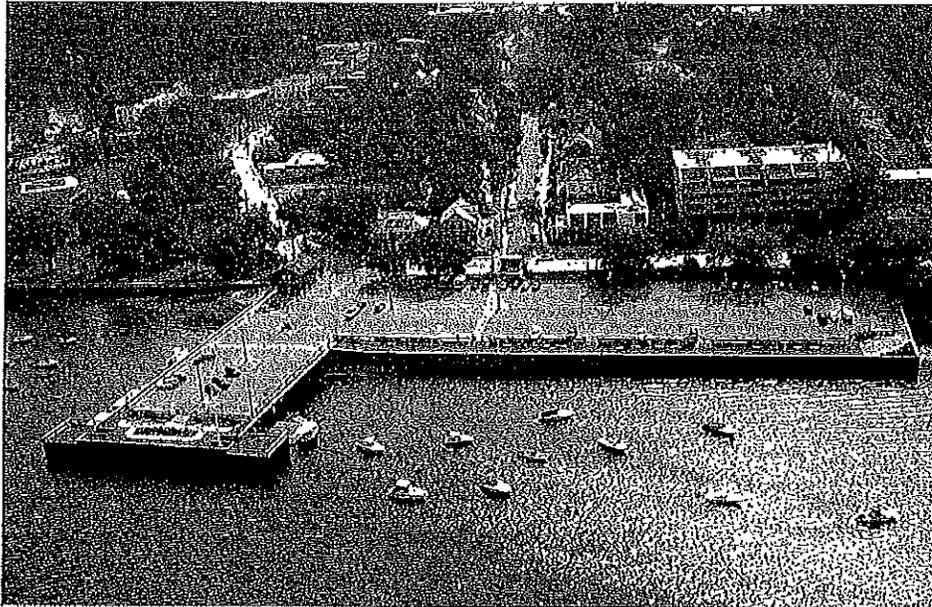


PHOTO 4 – View of Town Dock Looking East

Town Of North Hempstead
Town Dock, Port Washington, NY
HURRICANE SANDY AQUATIC SAND REMOVAL

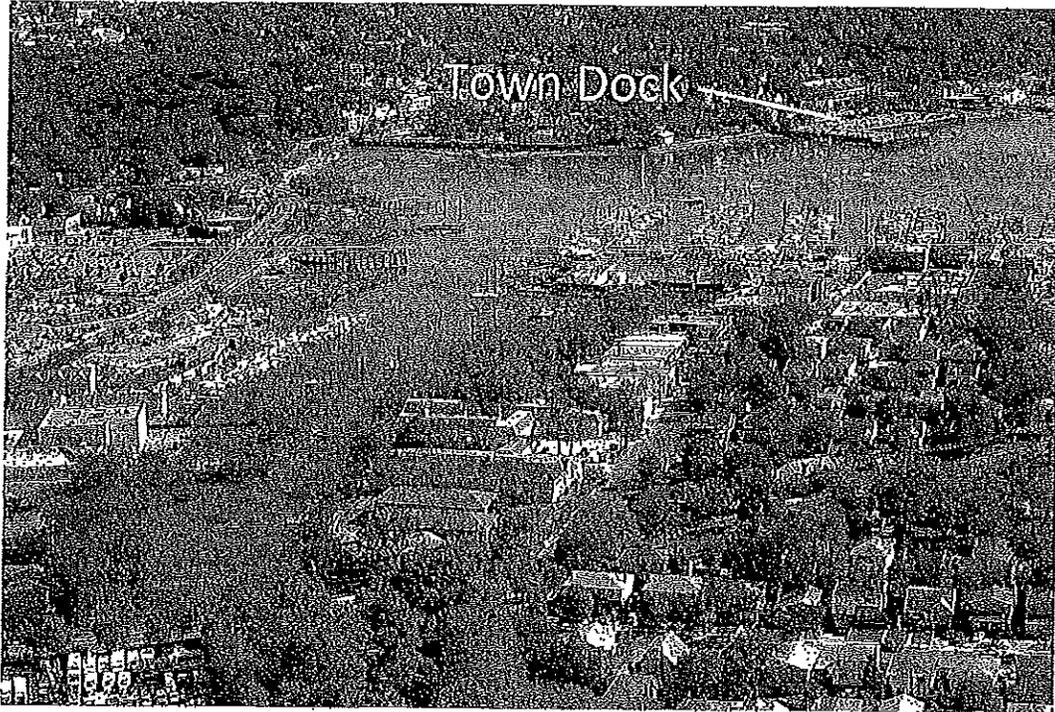


PHOTO 5 -- View Looking Southeast towards Town Dock

TOWN OF NORTH HEMPSTEAD
DEPARTMENT OF PUBLIC SAFETY

347 MAIN STREET
PORT WASHINGTON, NEW YORK 11050



HARBOR PATROL
DIVISION OF MARINE ENFORCEMENT

PHONE: (516) 767-4622
FAX: (516) 883-4760

June 24, 2014

To Whom It May Concern:

The effects of Hurricane Sandy on the Town Dock, in terms of the buildup of Marine sand have had many adverse effects on the Town's Boating community. In previous years The Town Dock was able to permit larger vessels upwards of 130 feet with drafts of 8 feet or more to utilize both the face and public floats at the Town dock. Due to buildup of marine sand around Town dock these permits are no longer able to be issued. The area has simply become too shallow. We are now limited to only permit smaller vessels with shallow drafts.

The buildup has also hindered vessels from coming in to Town Dock to utilize the Pump Out. Vessels that were able to pump out at any tide are now only able to do this at high tide. This effect has made the Town Dock Pump out inconvenient for use by most sailboats and larger powerboats, and has put more pressure on the Town's Pump Out boat.

The Town has also been forced to eliminate a large amount of moorings with in the Towns public mooring field. A portion of the mooring field has become too shallow and boats are aground during periods of low tide. These former mooring permit holders are now forced into higher priced dockage at marinas or private mooring fields or can no longer afford to use their boats

The buildup of marine sand has also had adverse effects on the way the Towns Harbor Patrol operates. At times of severe low tides the Town's main patrol boat cannot leave its dockage. This has forced us to use alternative dockage. This has caused delays in response times, and has an effect on public safety.

Sincerely,

Mallory S. Nathan
Chief Bay Constable
Town Of North Hempstead