



SUPPLEMENTAL PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: NAN-2012-01198-EHA
Issue Date: February 7, 2014
Expiration Date: March 10, 2014

To Whom It May Concern:

In March 2013, the New York District U.S. Army Corps of Engineers denied an application by the Borough of Carteret for a Department of the Army permit to construct a new 220-boat-slip public marina. The permit applicant appealed the application denial. In December 2013, the North Atlantic Division Headquarters, Corps of Engineers directed that the New York District reconsider and reevaluate the marina project application. Therefore with this supplemental Public Notice, the New York District, Corps of Engineers is soliciting comments on the attached more detailed application work description for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344):

APPLICANT: The Borough of Carteret
Memorial Municipal Building
61 Cooke Avenue
Carteret, NJ 07008

ACTIVITY: Proposed construction of a new public marina with 220 boat slips.

WATERWAY: Arthur Kill

LOCATION: Borough of Carteret, Middlesex County, New Jersey.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public

interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments provided will become a part of the public record for this action. Comments may be provided by electronic mail to Naomi.J.Handell@usace.army.mil.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail (including e-mail) is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally-listed endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act (Public Law 104-267), requires all Federal agencies to consult with the National Oceanic and Atmospheric Administration Fisheries Service (NOAA/FS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed work, fully described in the attached work description, could cause the loss of habitat for various lifestages of some EFH-designated species as a result of the dredging of intertidal mudflats and sub-tidal shallows and the placement of fill for capping contaminated sediments as part of the marina project. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations is being conducted and will be concluded prior to the final decision.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, pre-historical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act. The applicant will be required to obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occurs. For activities within the coastal zone of New Jersey, the applicant's certification and accompanying information is available from the New Jersey Department of Environmental Protection, Coastal Management Program, P.O. Box 418, 401 E. State Street, Trenton, NJ, 08625, Telephone (609) 633-2201. Comments

FEB 07 2014

regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

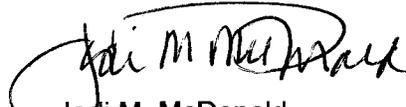
In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New Jersey Department of Environmental Protection

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917)790-8523 and ask for Naomi Handell.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>



Jodi M. McDonald
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The permit applicant, the Borough of Carteret, New Jersey has requested a Department of the Army permit to construct a new 220-slip public marina in an existing man-made cove on the Arthur Kill in the Borough of Carteret, Middlesex County, New Jersey.

The proposed construction work would involve the environmental clean-up/remediation of the man-made industrial cove on the Arthur Kill in order to stabilize the cove and deepen it for the municipal public marina. The Borough of Carteret reports they have received grants funding from the State of New Jersey for site investigative and remediation activities. The cove's industrial sediments, adjoining wetlands and uplands are reportedly contaminated with a variety of metals and base-neutral compounds from past industrial uses of the property and the cove.

The proposed construction work includes the construction of 1,300 linear feet of new tie-back/cantilever designed bulkheading with a proposed 6-foot-wide landside wooden access walkway. This bulkheading would serve to stabilize the cove's shoreline and serve as a containment barrier preventing continued erosion of contaminated sediments from the remaining emergent wetland/intertidal zone into the future dredged and capped marina basin.

Once the cove's shoreline is stabilized, approximately 80,000 cubic yards of dredged material would be bucket-dredged from the proposed 6.8-acre marina basin down to a maximum depth of 8 feet below the plane of Mean Low Water (MLW Datum). The proposed dredged material is comprised of silt and clay. The permit applicant reports they will use anchored silt curtains to enclose the perimeter of the proposed dredging area. An environmental gasketed clamshell dredge bucket would be used to minimize turbidity and place the dredged material into a hopper barge. The dredged material would be allowed to settle in the hopper barge for a period of 24 hours. After this 24-hour decant (settling) period, the decant water at the top of the hopper would be pumped out to the waterway. The remaining dredged material would then be amended/mixed with up to 10% Portland cement in the hopper barge to stabilize and further de-water the dredged material. The permit applicant states that the amended dredged material would then be placed at the Middlesex County Utilities Landfill located in East Brunswick, New Jersey.

After the dredging is completed to a maximum depth of 8 feet below the plane of Mean Low Water Datum, the permit applicant would discharge/place approximately 16,000 cubic yards of upland-sourced unspecified clean fill as a one-foot-thick cap over the remaining industrial sediments in the dredged marina basin. This will provide for a 7-foot-deep marina basin at Mean Low Water or average low tide.

The proposed work would next consist of the installation of approximately 220 boat slips and 8 connected floating docks, water and electric services for the boat slips, boat sewage pump out facilities and fueling facilities. The 220 boat slips would accommodate boats ranging in size from 20-feet to approximately 30-feet in length. The installation of the 8 interconnected 8-foot wide floating docks, totaling approximately 3,075 linear feet would be accessible both by two (2) 6-foot-wide stationary gangways located to the north and to the

south and the proposed 6-foot-wide wooden walkway along the bulkheading.

The marina construction work would also include hanging a steel sheet-pile wave screen fence on the outside of the existing 700-foot-long fixed steel fishing pier. This existing fixed steel pier was construction under the authority of Department of the Army Permit Number NAN-2010-00389 dated June 29, 2010 and will not be extended in length. The wave screen fence would be hung so that it is a minimum of 2-feet above the existing mud-line on the bottom of the Arthur Kill.

The proposed marina construction work would adversely impact 5 acres of sub tidal shallows and cause the permanent loss of 1.8 acres of mudflats. The permit applicant has proposed, as required by 33 CFR 332, compensatory mitigation for the aquatic habitat losses and changes through enhancement of 3.2 acres of remaining on-site wetlands, open waters and mudflats. Specifically, the proposed compensatory mitigation work in the 3.2 acres would result in the physical enhancement of 2 acres of existing wetlands and conversion of 1.2 acres of remaining mudflats to: approximately 0.3 acre of tidal channels, 0.1 acre of mudflats, 1.0 acre of low marsh wetlands, 1.1 acres of high marsh wetlands, and 0.7 acre of canopy/scrub shrub understory upland.

The permit applicant states that the purpose of the proposed new marina is to provide public access to the Arthur Kill by constructing new in-water moorings in response to the present demand in the area for boat slips. It should be noted that the New Jersey State Police Marine Bureau recently completed and occupied their new relocated headquarters building (from Newark Bay) on the adjacent upland and they would use a portion of the marina to moor their State Police boats. The permit applicant also states that their presence would also help secure the waterfront area and service the community and recreational boaters that navigate through the Arthur Kill and adjacent waters.

The permit applicant has stated that the design, size and capacity for the proposed marina is the minimum necessary to make the entire project economically viable. The applicant states that a smaller sized marina would result in revenue losses. The applicant states that due to the cost of the required chemical remediation, the marina will not be profitable for at least 10 years. The applicant states that the marina is necessary to allow the required remediation to occur and to provide public access to the Arthur Kill.

BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY

=PERMIT APPLICATION DRAWINGS= WATERFRONT MARINA

JANUARY 2014

Contract No. H-CA-00501-10

DANIEL REIMAN, MAYOR

BOROUGH COUNCIL

JORGE DIAZ
VINCENT BELLINO
DENNIS DIMASCIO
RANDY KRUM
SUSAN NAPLES
JOSEPH SITARZ

COUNCIL PRESIDENT
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER

KATHLEEN M. BARNET
JOHN DUPONT, PE, CME
ROBERT BEROM, ESQ

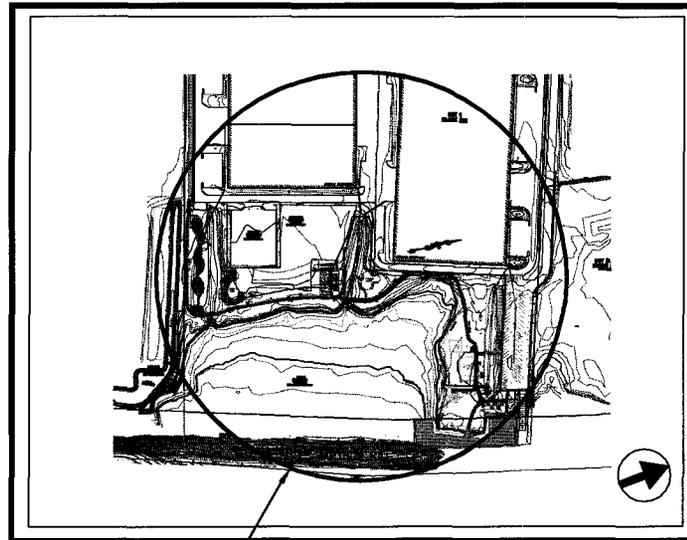
MUNICIPAL CLERK
DIRECTOR OF ENGINEERING
BOROUGH ATTORNEY

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8.	DREDGING PLAN AND SECTIONS 1 OF 2
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10.	WAVESCREEN PLAN AND SECTIONS



LOCATION MAP
SCALE: 1" = 2,000'



LOCATION MAP
SCALE: 1" = 200'

PROJECT LOCATION

UTILITY CONTACT LIST:

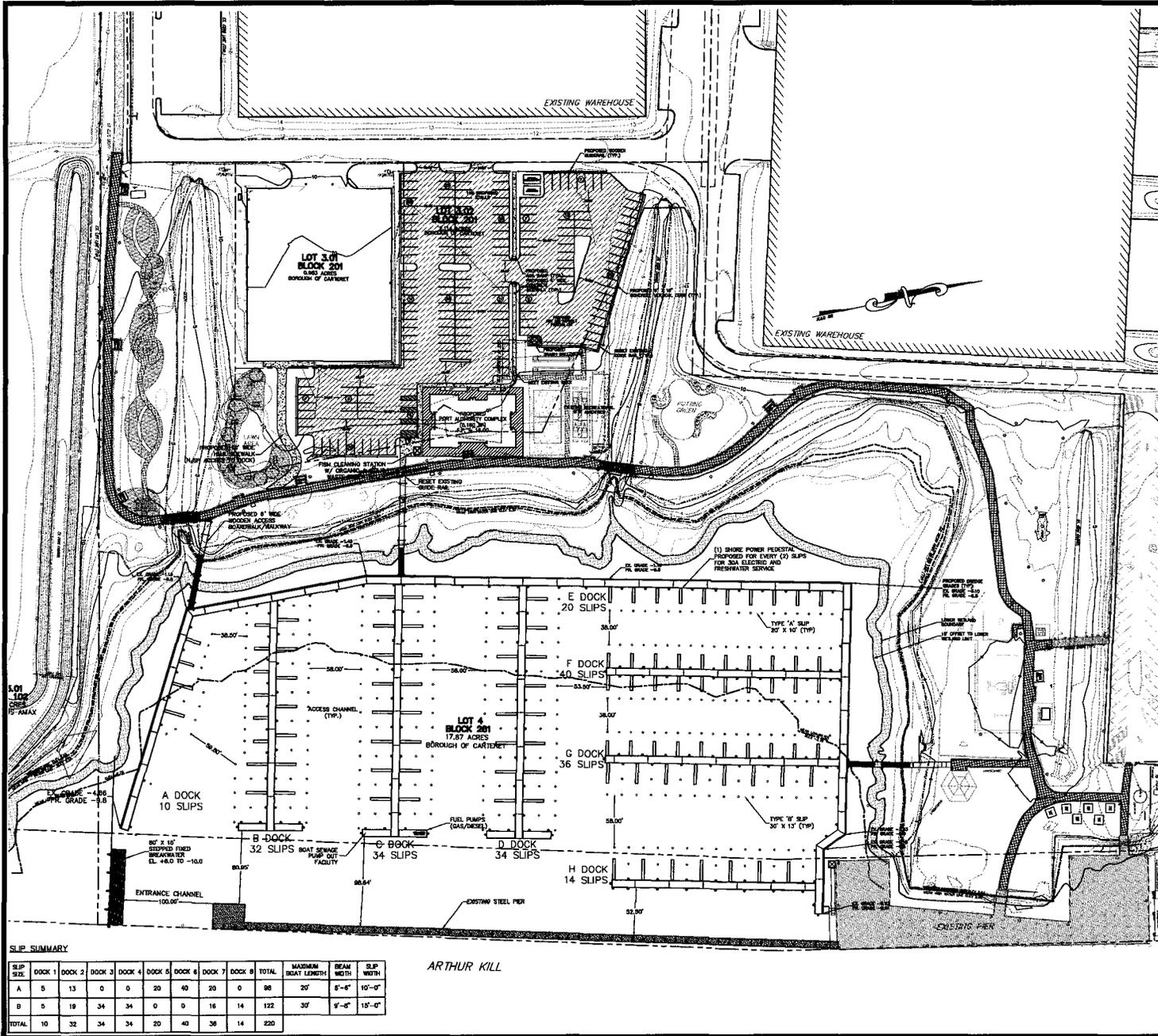
WATER COMPANY MIDDLESEX COUNTY WATER COMPANY 1500 ROBINSON ROAD SEELIN, NJ 08030 CRED RISOLDI (732) 534-1500 x264	TELEPHONE COMPANY VERIZON 445 GEORGES ROAD, FLOOR 2 NORTH BRUNSWICK, NJ 08902 DENNIS RIDGEMAN (732) 846-5942	CABLE TELEVISION COMCAST CABLE 800 RAHWAY AVENUE LINDEN, NJ 07036 ROBERT KNOEPPFEL (908) 851-8857
SANITARY SEWER COMPANY BOROUGH OF CARTERET SEWERAGE DEPARTMENT 20 COOKE AVENUE CARTERET, NJ 07005 MICHAEL CARNEVALE (732) 541-3878	POWER COMPANY PSEG 4140 CHAMBER BRIDGE ROAD LAWRENCEVILLE, NJ 08848 KEVIN MEARA (609) 581-7092	GAS COMPANY ELIZABETHTOWN GAS 1085 MORRIS AVENUE P.O. BOX 3175 UNION, NJ 07083 (908) 288-5000 x5100

ADJACENT PROPERTY OWNERS WITH 50' FEET			ADJACENT PROPERTY OWNERS WITH 50' FEET		
BLOCK	LOT	NAME AND ADDRESS	BLOCK	LOT	NAME AND ADDRESS
1	24B	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	1	24	14 HUNTER ROAD, 07005 NJ UNION, NJ 07005
1	24A	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	24	11	11 1ST AVENUE, 07005 NJ UNION, NJ 07005
1	24C	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	24	1	11 1ST AVENUE, 07005 NJ UNION, NJ 07005
1	24	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	24	1	11 1ST AVENUE, 07005 NJ UNION, NJ 07005
1	24	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	24	1	11 1ST AVENUE, 07005 NJ UNION, NJ 07005
1	24	CHRYSLER GROUP LLC 200 WEST 31ST STREET NEW YORK, NY 10001	24	1	11 1ST AVENUE, 07005 NJ UNION, NJ 07005

NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 VICINITY MAP				
CONSULTING AND MUNICIPAL ENGINEERS				
JOHN H. ALPHEUS, P.E. 1000 W. 10TH STREET PHILADELPHIA, PA 19107 (215) 591-1111	DANIEL DIMAS, P.E. 1000 W. 10TH STREET PHILADELPHIA, PA 19107 (215) 591-1111	JOSEPH R. VAYNSKY, P.E. & ASSOCIATES 1000 W. 10TH STREET PHILADELPHIA, PA 19107 (215) 591-1111		
GREGORY R. VAYNSKY, P.E. 	AS SHOWN DATE: 1/11/14	DATE 1/11/14	SCALE 1" = 200'	PROJECT NO. H-CA-00501-10

DRAWING 1 OF 10

NAN -2012-01198-EHA



- MARINA COMPLIANCE NOTES:
- 1.) IN NO INSTANCE IS A PARKING SPACE >100 METERS (330') FROM A SLIP. AT THE REQUEST OF THE MARINER, ASSIGNED PARKING COULD BE PROVIDED. IN ADDITION, IT IS ANTICIPATED THAT MARINA USERS WILL USE THE FRONT DRIVEWAY AS A "DROP OFF".
 - 2.) THE USABLE WIDTH OF THE ENTRANCE CHANNEL IS 100' (>10 M).
 - 3.) A FIXED PUMP OUT STATION IS PROPOSED ON DOCK 3.
 - 4.) TRASH RECEIPTAGES AND FISH CLEANING STATIONS WITH ORGANIC REFUSE ARE PROPOSED.
 - 5.) PARKING FACILITIES ARE PROPOSED AS FOLLOWS:
- | REQUIREMENT | REQUIREMENT SOURCE | REQUIREMENT | PROVIDED |
|------------------|---------------------------|---------------------|----------|
| MARINA | N.J.A.C. 7E-7.3A.10 | 0.6 SPACES/SLIP | 132 |
| PARK | L.T.E. PARKING GEN. ED. 3 | 15 SPACES/ ACRE | 49 |
| BUILDING- OFFICE | L.T.E. PARKING GEN. ED. 3 | 3 SPACES/ 1,000 SF | 6 |
| BUILDING- SHOP | L.T.E. PARKING GEN. ED. 3 | 15 SPACES/ 1,000 SF | 4 |
| BUILDING- DINING | L.T.E. PARKING GEN. ED. 3 | 6 SPACES/ 1,000 SF | 4 |
| | | TOTAL | 195 |
| | | | 233 |
- 6.) NO MAINTENANCE AREA IS PROPOSED AS PART OF THE SITE PLAN. IT IS ANTICIPATED THAT MAINTENANCE WILL OCCUR OFF-SITE.
 - 7.) 3,000 GALLON GAS AND DIESEL TANKS ARE PROPOSED (>4 X LARGEST EXPECTED BOAT FUEL TANK=250 GAL).
 - 8.) (A) THE TURNING AREAS OF THE BASIN ARE PROPOSED 50' (2.25 X 20' = 45')
 - 9.) (B) (C) THE TURNING AREAS OF THE BASIN ARE PROPOSED 70' (2.25 X 30' = 67.5')
 - 10.) (C) THE TURNING AREAS OF THE BASIN ARE PROPOSED 90' (2.25 X 40' = 90')
 - 9.) RESTROOM FACILITIES AS PROPOSED AS FOLLOWS:
- | REQUIREMENT | REQUIRED | PROVIDED | PORT AUTH. BLDG. | RESTROOM NORTH |
|------------------|----------|----------|------------------|----------------|
| TOILET STALL (M) | 5 | 3* | 2 | 1 |
| TOILET STALL (W) | 9 | 5* | 2 | 1 |
| URINAL (M) | 5 | 5* | 4 | 1 |
| WASH BASIN (W) | 5 | 5* | 4 | 1 |
| WASH BASIN (M) | 5 | 5* | 4 | 1 |
| SHOWER (M) | 5 | 3* | 3 | 0 |
| SHOWER (W) | 5 | 3* | 3 | 0 |
- * ANTICIPATE ADEQUATE FACILITIES HAVE BEEN PROVIDED
- 10.) ALL UTILITY RUNS TO BE FLEXIBLE CONDUIT/HOSING WITH BREAKAWAY CONNECTORS TO ALLOW FOR FLOATING DOCK MOVEMENT.
 - 11.) EACH BOAT SLIP TO HAVE ONE FINGER PER WITH BOAT MOORINGS AND CLEATS RATED FOR STORM SURGE.
 - 12.) PERHEAD AND BULKHEAD LINES BASED ON DEPT. OF THE ARMY, SINGLE REGION REPORT MAD27, MAD3, ARTHUR KILL.

SLIP SUMMARY

SLIP SIZE	DOCK 1	DOCK 2	DOCK 3	DOCK 4	DOCK 5	DOCK 6	DOCK 7	DOCK 8	TOTAL	MAXIMUM BEAT LENGTH	BEAM WIDTH	SLIP WIDTH
A	5	13	0	0	20	40	20	0	98	20'	8'-8"	10'-0"
B	5	18	34	34	0	0	16	14	122	30'	9'-0"	13'-0"
TOTAL	10	32	34	34	20	40	36	14	220			

GRAPHIC SCALE
1" = 50'

NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED

BOROUGH OF CARTERET
MIDDLESEX COUNTY, NEW JERSEY
WATERFRONT MARINA
LOTS 3.02 & 4 BLOCK 201
SITE LAYOUT & DIMENSIONING PLAN

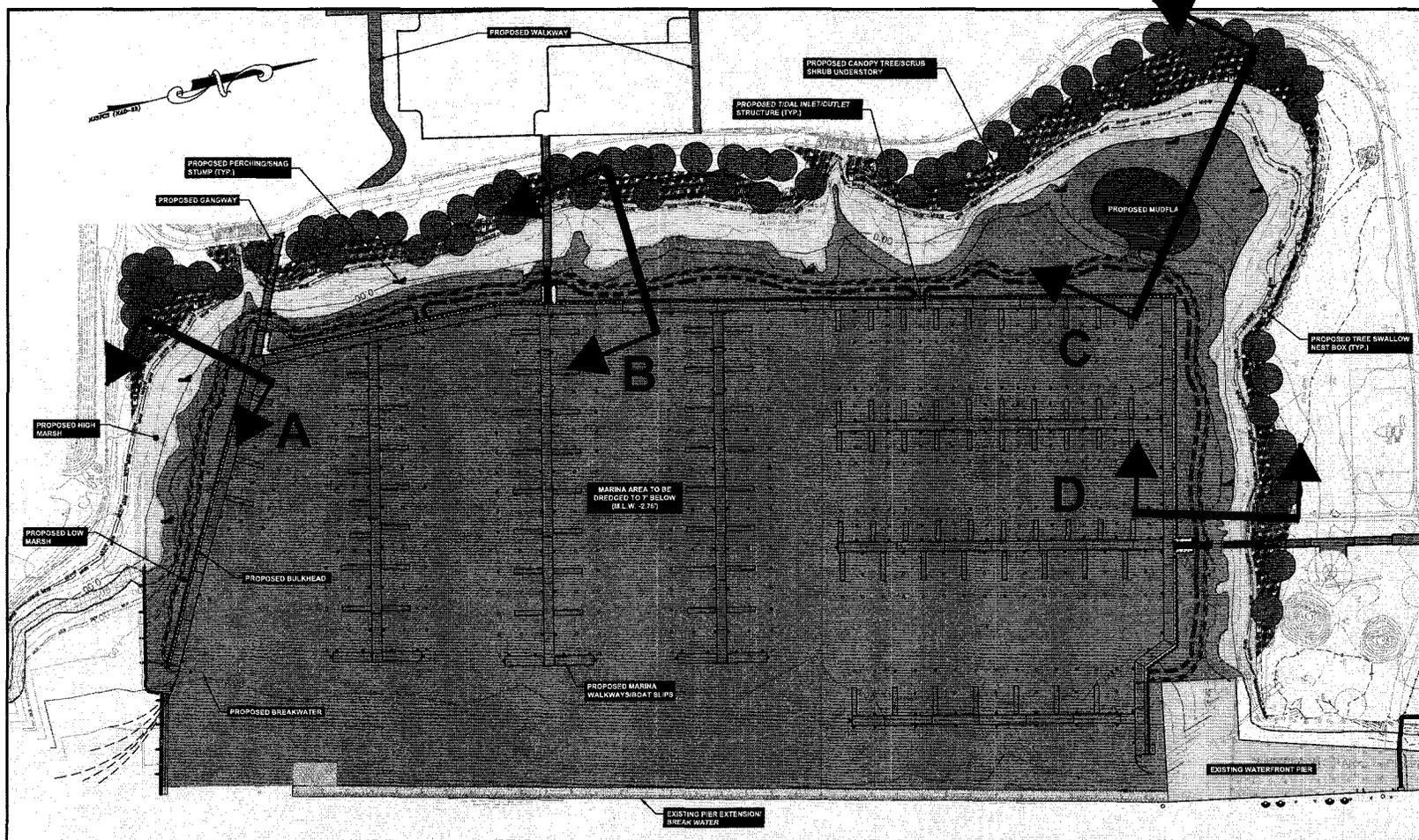
GRM ASSOCIATES
CONSULTING AND MUNICIPAL ENGINEERS

JOHN H. ALABRE P.E., P.A. REGISTERED CIVIL ENGINEER NO. 24280	DONALD J. SHARPE P.E., P.A. REGISTERED CIVIL ENGINEER NO. 24280	JOHN J. DEWANE P.E., L.S. & P.A. REGISTERED SURVEYOR NO. 24280
J.P. & CORRELL P.E., P.A. REGISTERED CIVIL ENGINEER NO. 24280	NICHOLE J. HANCOCK P.E., P.A. REGISTERED CIVIL ENGINEER NO. 24280	ANDREW S. VILDES P.E., P.A. REGISTERED CIVIL ENGINEER NO. 24280

GREGORY R. VALES P.E., P.A.
REGISTERED CIVIL ENGINEER
NO. 24280

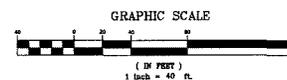
1"=50'
DATE: 1/31/14
SCALE: BM TZZ/S
SHEET: 3

NEW JERSEY PROFESSIONAL ENGINEERS N.J.A.C. 13:27
1/31/14

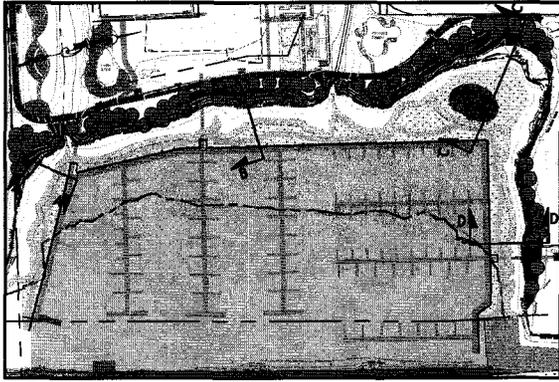


LEGEND	
	MLW - ELEV. -2.76
	MHW - ELEV. 2.33
	MSHW (SPRING HIGH TIDE) - ELEV. 2.64
	PROPOSED TIDAL CHANNEL - 14,405 S.F. ± / 0.331 Ac. ±
	PROPOSED MUDFLAT AREA - 4,563 S.F. ± / 0.105 Ac. ±
	LOW MARSH AREA - 44,289 S.F. ± / 1.018 Ac. ±
	HIGH MARSH AREA - 48,874 S.F. ± / 1.122 Ac. ±
	CANOPY TREE/SCRUB SHRUB UNDERSTORY - 30,703 S.F. ± / 0.705 Ac. ±
	CANOPY TREES
	UNDERSTORY TREES
	PROPOSED TREE SWALLOW NEST BOXES (10)
	PROPOSED FERCHING/SNAG STUMP

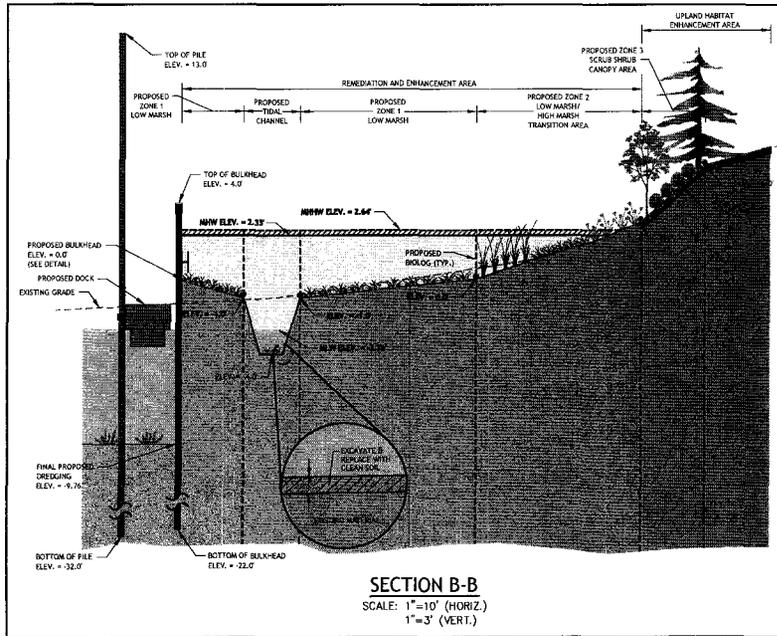
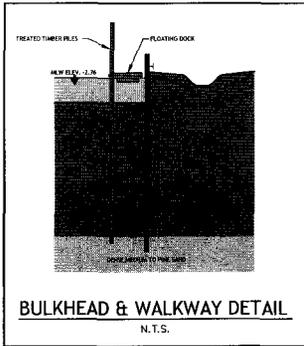
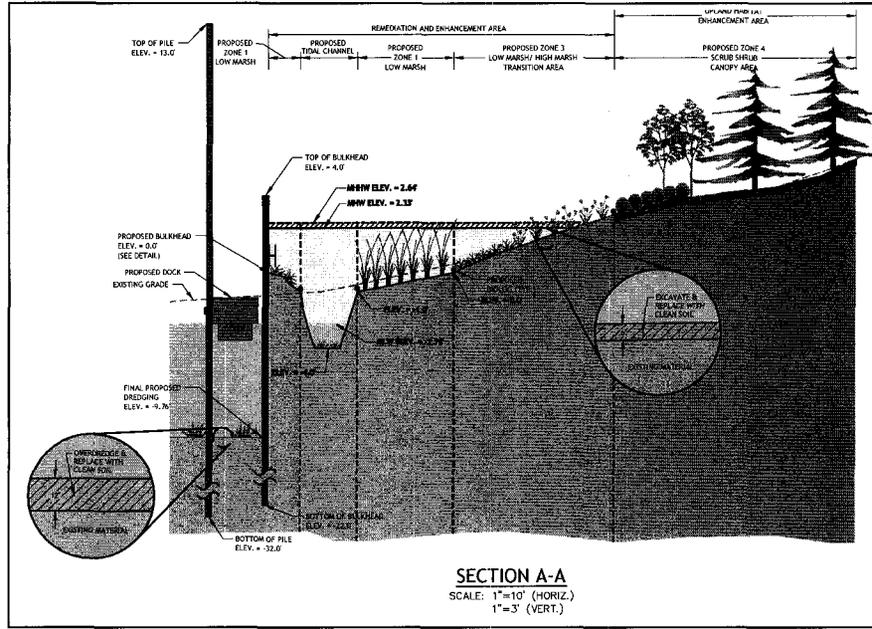
- NOTES:
1. THE MEAN HIGH WATER (MHW) DETERMINATION WAS BASED UPON AN INTERPOLATION BETWEEN TWO TIDAL STUDY STATIONS, B50372 - KEANY POINT, HICKENSBACK BRIDGE, AND B51119 - WOODBRIDGE CREEK #1. BOTH STUDIES ARE BASED UPON THE TIDAL EPOCH 1983-2001 AND STRADDLE THE PROPOSED SITE ALONG A COMMON WATERWAY. THE TIDAL ELEVATIONS WERE CONVERTED TO NAVD 1988 ELEVATIONS BASED ON TWO PUBLISHED TIDAL BENCH MARKS, "W 10" PID K40269, AND "D 37" PID K40186, WHICH WERE PART OF AND INCORPORATED INTO THE TIDAL STUDY REPORTS. BOTH BENCH MARKS ARE PART OF THE NAVD 1988 VERTICAL NETWORK AND ARE CLASSIFIED AS FIRST ORDER, CLASS TWO, VERTICAL CONTROL POINTS.
 2. REMEDIATED WETLAND/AQUATIC HABITAT TO BE PROVIDED A 6" LAYER OF CLEAN SUBSTRATE.
 3. NUTRIENT TREATMENT TO BE PROVIDED ALONG UPLAND/WETLAND FRINGE PRIOR TO GRADING ACTIVITIES.



NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 WETLAND/AQUATIC HABITAT ENHANCEMENT PLAN				
 ASSOCIATES CONSULTING AND MUNICIPAL ENGINEERS				
JOHN R. ALGAR P.E., P.P.	DAVID A. SMIER P.E., P.P.	JOHN A. STEFAN P.E., L.S. & P.P.		
WAY B. CORNELL P.E., P.P.	MICHAEL J. MACLELLAN P.E., P.P.	GREGORY R. VALES P.E., P.P.		
GREGORY R. VALES P.E., P.P.			SCALE	1" = 40'
			DRAWN BY	HO/BT
NEW JERSEY PROFESSIONAL ENGINEER N.J. LIC. 34456			DATE	1/31/14
SHEET NO.			OF	4

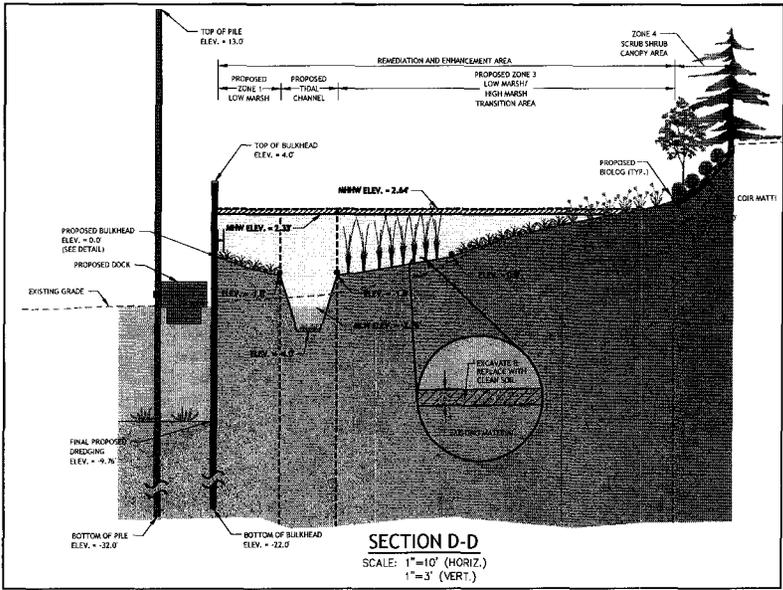
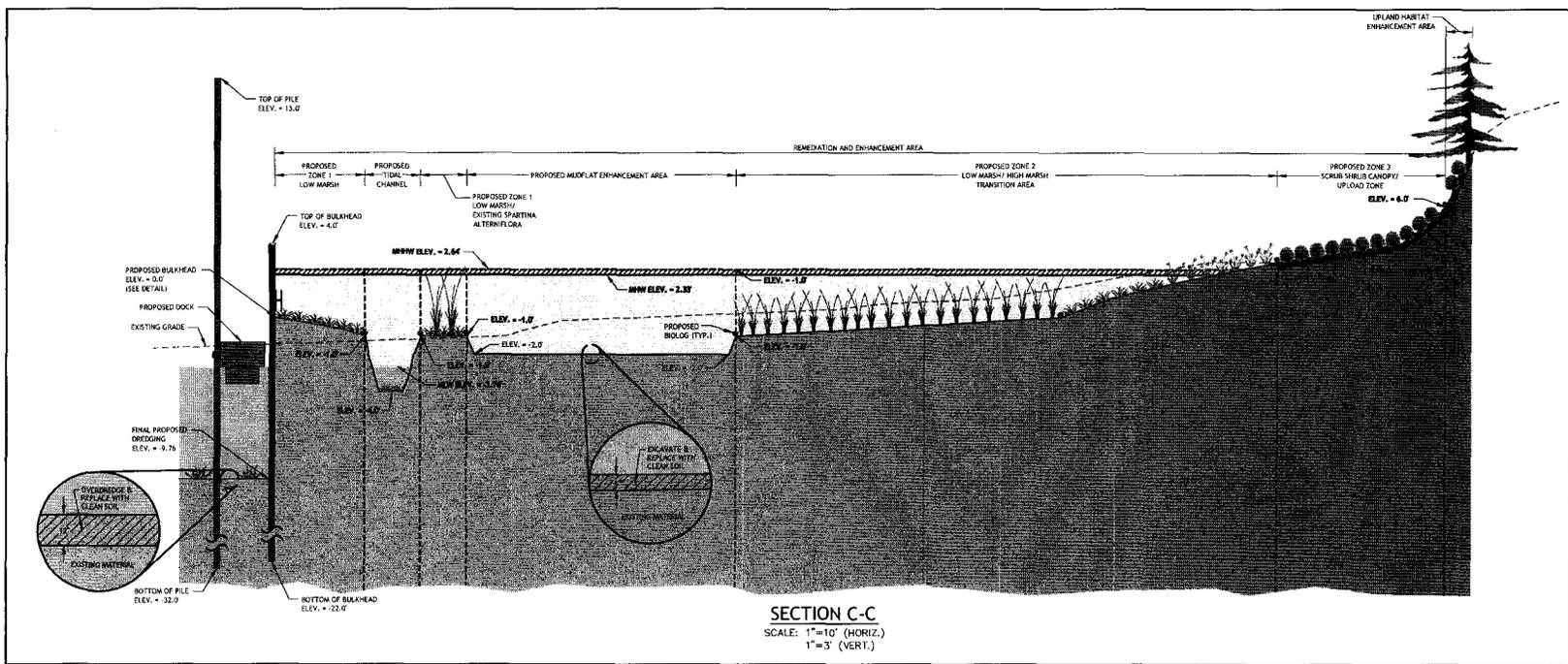


PLAN
SCALE: 1"=100'



- LEGEND
- M/LW - ELEV. -2.76
 - MHW - ELEV. 2.33
 - MHHW (SPRING HIGH TIDE) - ELEV. 2.64
 - EXISTING GRADE LINE

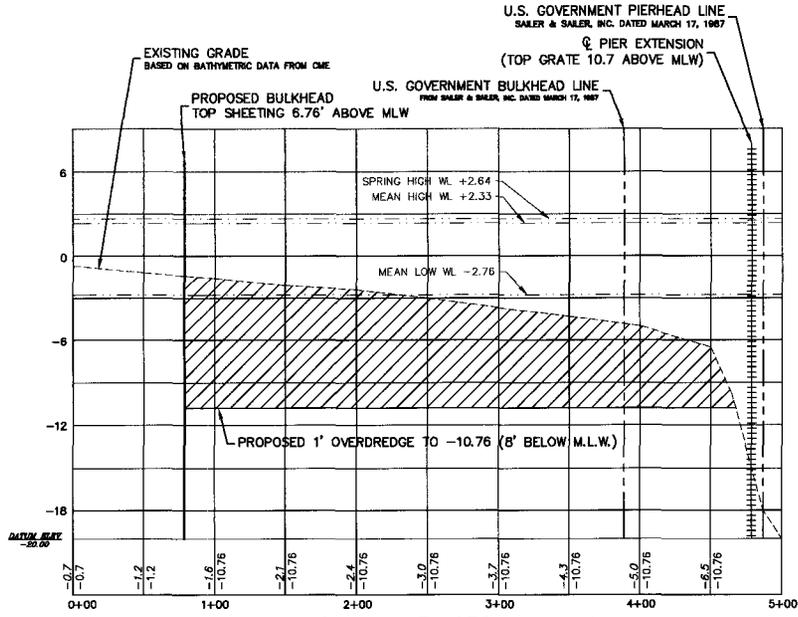
No.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 ECOLOGICAL RESTORATION CROSS SECTION PLAN 1 OF 2				
 CONSULTING AND MUNICIPAL ENGINEERS <small>INCORPORATED UNDER THE LAWS OF THE STATE OF NEW JERSEY</small>				
JOHN H. ALDRUP P.E., P.P.	DANIEL J. DANIEL P.E., P.A.	JOHN J. STEPHAN P.E., L.S. & P.P.		
JAY R. CORNELL P.A., P.P.	MICHAEL J. MCKELAND P.E., P.P.	GREGORY R. WILSON P.E., P.P.		
GREGORY R. WILSON P.E., P.P. <small>NEW JERSEY PROFESSIONAL ENGINEER</small>			AS SHOWN	AG
			HO	BT/HO
			1/31/14	5



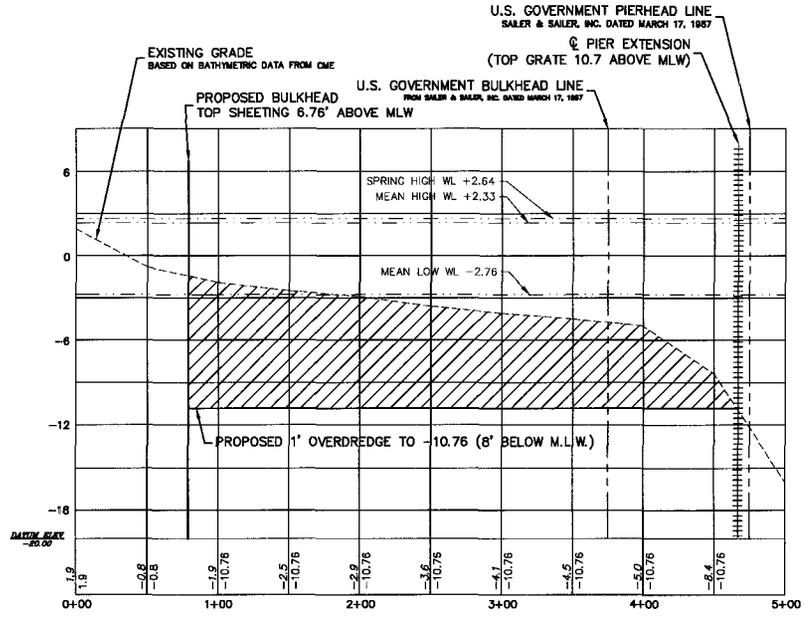
LEGEND

	MLW - ELEV. -2.76
	MHW - ELEV. 2.33
	MHHW (SPRING HIGH TIDE) - ELEV. 2.64
	EXISTING GRADE LINE

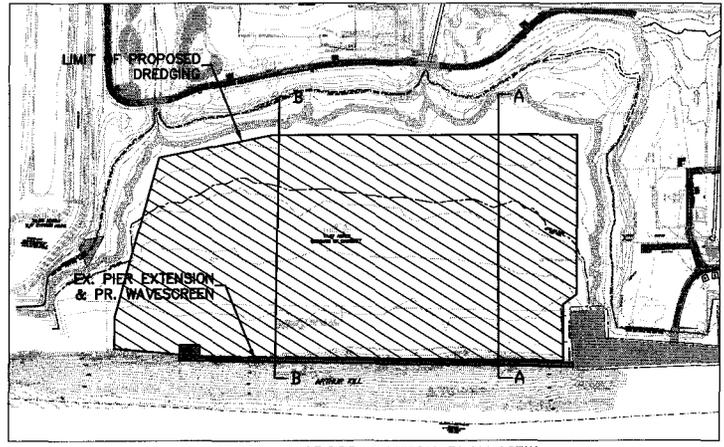
NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 ECOLOGICAL RESTORATION CROSS SECTION PLAN 2 OF 2				
 CONSULTING AND MUNICIPAL ENGINEERS <small>INCORPORATED UNDER THE LAWS OF THE STATE OF NEW JERSEY</small>				
JOHN H. ALDRUP P.E., P.P.	DAVID J. SAMUEL P.E., P.A.	JOHN I. STEWART P.E., L.S. & P.P.		
JAY B. CORNELL P.E., P.P.	MICHAEL J. MCCLELLAND P.E., P.P.	CHRISTOPHER WALKER P.E., P.P.		
GREGORY R. WATSON P.E., P.P. <small>REGISTERED PROFESSIONAL ENGINEER</small>			AS SHOWN MO 1/31/14	AG BT/HO 6
<small>N.J. LIC. 34458</small>			<small>N.J. LIC. 34458</small>	



DREDGING PROFILE: SECTION A-A



DREDGING PROFILE: SECTION B-B

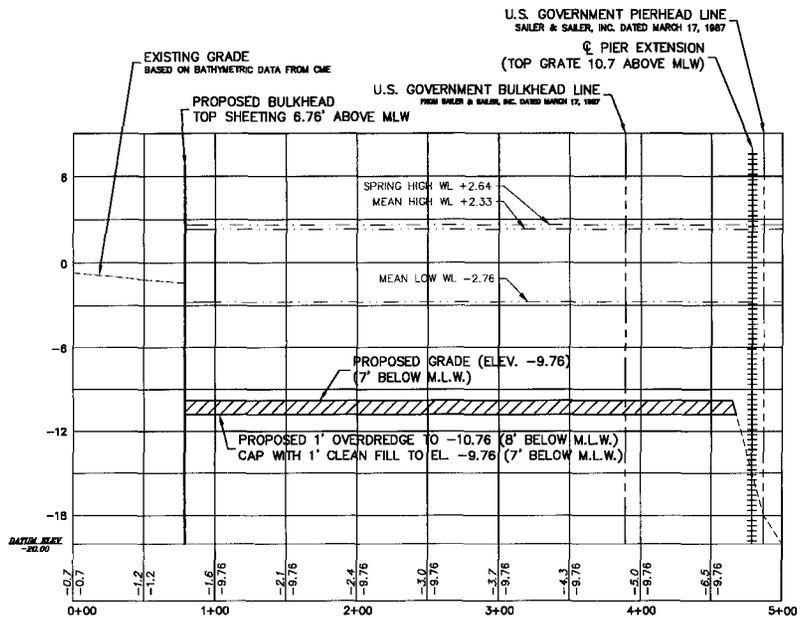


DREDGING CROSS-SECTION PLAN VIEW

APPROXIMATE DREDGING VOLUMES (TO 8' BELOW M.L.W.)

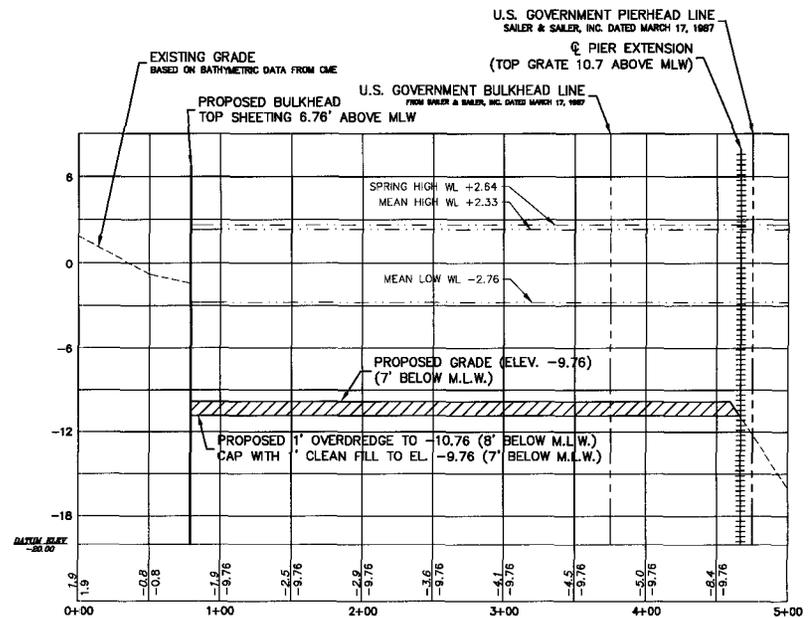
XS A-A	1,142,670 CF	42,321 CY
XS B-B	1,053,290 CF	39,011 CY
		81,332 CY TOTAL

NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 DREDGING PLAN AND SECTIONS 1 OF 2				
 CONSULTING AND MUNICIPAL ENGINEERS				
JOHN H. ANGELO, P.E.	DAVID L. SHARPE, P.E.	JOHN J. BISHOP, P.E., L.S. & P.S.		
JIM B. CORRELL, P.E., P.S.	MICHAEL J. MCGILLIANDRILLI, P.E.	ANDREW S. WALKER, P.E., P.S.		
GREGORY R. VACCARO, P.E., P.P.			AS SHOWN	MRZ
			BM	TT/2G
			1/31/14	B



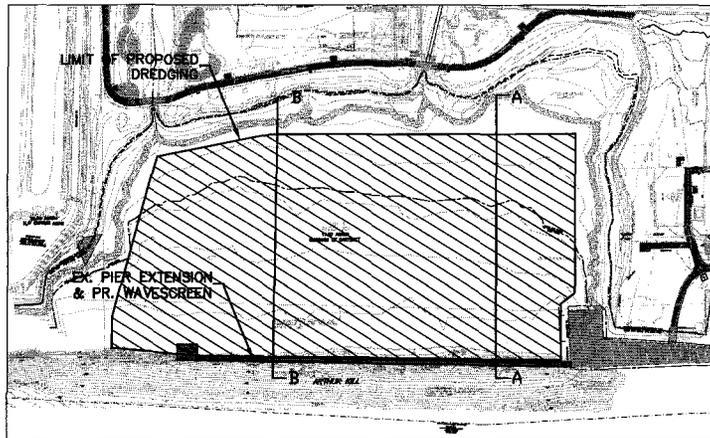
DREDGING PROFILE: SECTION A-A

SCALE 1" = 10' H
SCALE 1" = 20' V



DREDGING PROFILE: SECTION B-B

SCALE 1" = 10' H
SCALE 1" = 20' V



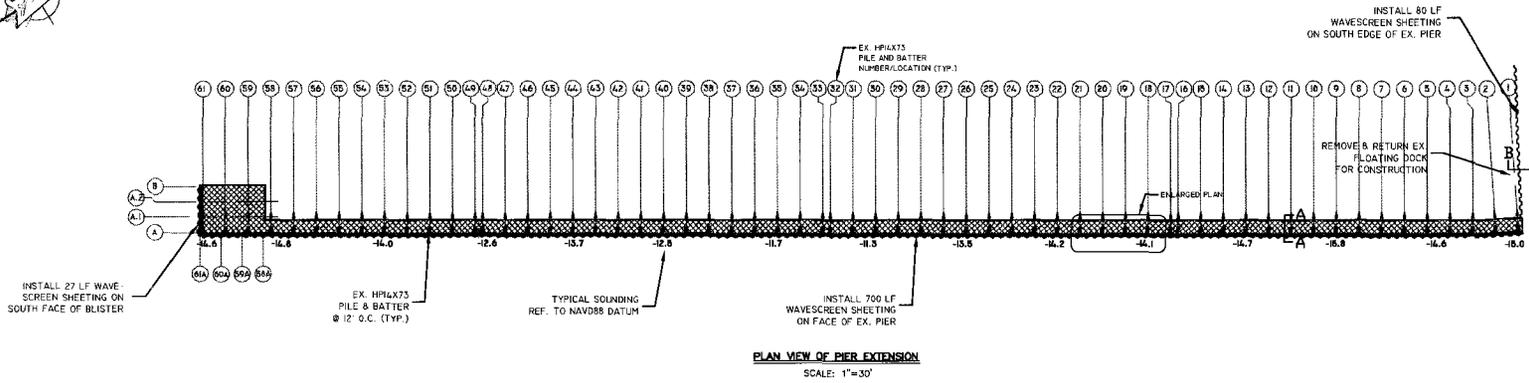
DREDGING CROSS-SECTION PLAN VIEW

SCALE 1" = 100'

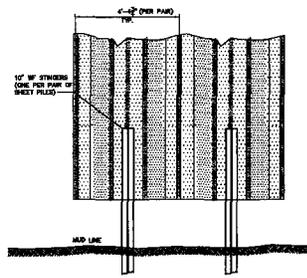
APPROXIMATE DREDGING VOLUMES (TO 8' BELOW M.L.W.)

XS A-A	1,142,670 CF	42,321 CY
XS B-B	1,053,290 CF	39,011 CY
		81,332 CY TOTAL

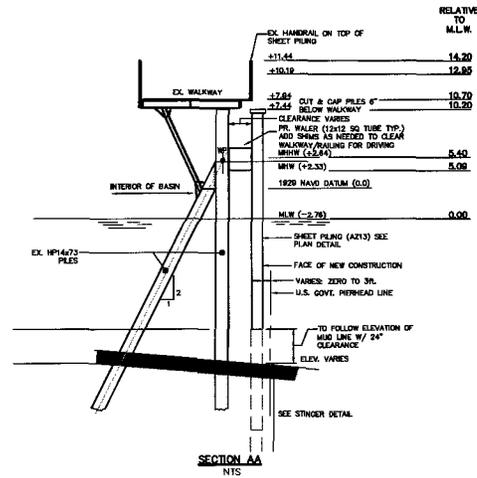
NO.	DESCRIPTION OF REVISION	DATE	DRAWN	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOTS 3.02 & 4 BLOCK 201 DREDGING PLAN AND SECTIONS 2 OF 2				
JOHN H. ALLEN, P.E., P.R.	DAVID J. SHARPE, P.E., P.R.	JOSEPH J. RYAN, P.E., L.E. & P.R.		
JIM A. CORRELL, P.E., P.R.	MICHAEL J. MACRIANO, P.E., P.R.	ANDREW S. WYLER, P.E., P.R.		
GRANTORY R. VAN DER BEEK, P.E., P.P.			AS SHOWN	MRZ
			BM	TRZG
CONSULTING AND MUNICIPAL ENGINEERS 111 LIC. 24168			1/31/14	9



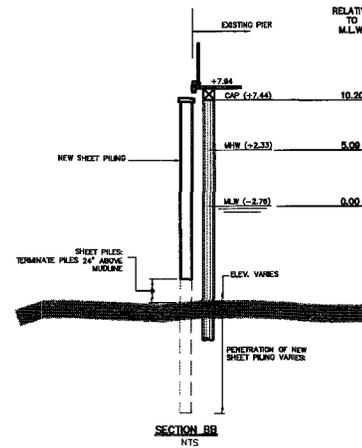
PLAN VIEW OF PIER EXTENSION
SCALE: 1"=30'



STINGERS
N.T.S.



SECTION AA
N.T.S.



SECTION BB
N.T.S.

NO.	DESCRIPTION OF REVISION	DATE	BY	CHECKED
BOROUGH OF CARTERET MIDDLESEX COUNTY, NEW JERSEY WATERFRONT MARINA LOT 3.02 & LOT 4 BLOCK 201 WAVE SCREEN PLAN AND SECTIONS				
CONSULTING AND MUNICIPAL ENGINEERS, INC. <small>INCORPORATED IN NEW JERSEY</small>				
JOHN J. ALDRIDGE, P.E.	DAVID J. SPINALE, P.E.	JOHN J. GIBBONS, L.S. & P.P.		
JOHN J. GIBBONS, L.S. & P.P.	DAVID J. SPINALE, P.E.	JOHN J. ALDRIDGE, P.E.		
DAVID J. SPINALE, P.E.	JOHN J. GIBBONS, L.S. & P.P.	DAVID J. SPINALE, P.E.		
GREGORY R. V. E.P.P. <small>CONSULTING AND MUNICIPAL ENGINEERS, INC.</small>		AS SHOWN <small>DATE</small>	TRNS <small>DATE</small>	10 <small>DATE</small>
<small>ALL LIC. 2008</small>		<small>1/31/14</small>	<small>10</small>	<small>10</small>