



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-2018-00563**
Issue Date: September 24, 2018
Expiration Date: October 24, 2018

To Whom It May Concern:

The New York District, Corps of Engineers has received a modification request 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: Village of Port Chester
222 Grace Church Street
Port Chester, New York 10573

ACTIVITY: The applicant proposes construction of a 93 foot single span pedestrian bridge and reconstruction of approximately 1,600 feet of structurally deficient bulkhead.

WATERWAY: Byram River

LOCATION: Village of Port Chester, New York (40.999705°, -73.660348°)

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 submitted in response to this notice will be fully considered during the public interest

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review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

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 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 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. Additional information will be sent to the National Marine Fisheries Service to support this determination.

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 disruption of habitat for various lifestages of some EFH-designated species. However, the New York District has made the preliminary determination that the site-specific adverse effects are not likely to be substantial because it is expected that fish populations would avoid the small area of disturbance. Further consultation with NOAA/FS regarding EFH impacts and conservation recommendations 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, prehistorical, 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 and the applicant will 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 occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and

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Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

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- 8518 and ask for Peter Steinour.

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>.


Stephan A. Ryba
For: Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

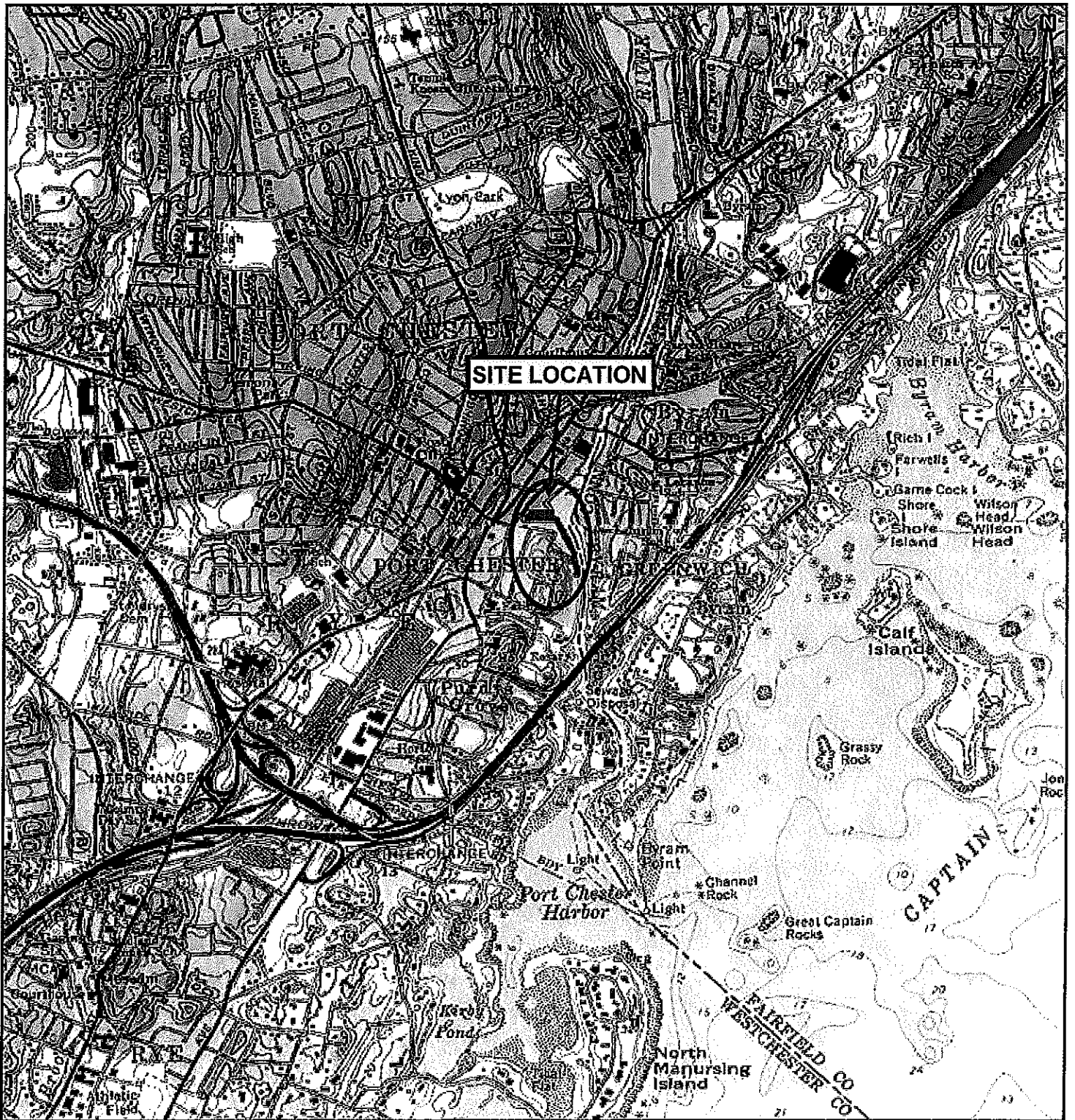
The Village of Port Chester proposes construction of a 93 feet long by 12 feet wide single span prefabricated steel pedestrian bridge over the mouth of an inlet on the Byram River in the Village of Port Chester, Westchester County, New York (41.000523°, -73.661032°) and reconstruction of approximately 1,600 feet of structurally deficient and collapsed bulkhead on the Byram River (see enclosed drawings).

The southern portion of the repair involves the construction of a cast in-place retaining wall, which will act as the new bulkhead while supporting a cantilevered 675 feet long by 12 feet wide steel beam deck. The deck will consist of a timber "boardwalk" walking surface with a decorative railing for fall protection. The design includes a proposed rip rap revetment located waterward of the concrete retaining wall to protect the wall from wave action and prevent scour at the concrete footings. A total of 1,056 cubic yards of rip rap will be placed below the Spring High Tide Line along 656 feet of shoreline. The waterward limit of the rip rap revetment will terminate at the existing bulkhead (to be removed) to minimize additional disturbances to the Byram River. The use of a cantilevered deck allows the watercourse to extend further landward along the western bank and occupy space below the walking surface that was previously filled.

Between Stations 6+75 and 16+00, new sheeting will be installed immediately waterward of the existing sheet pile bulkhead to reinforce the water's edge and prevent potential collapse. The proposed sheet pile wall will contain a concrete cap and decorative railing with a paver block walking surface. The work will be located within 18 inches of the existing bulkhead limit. No backfill will be placed behind the new sheeting at these stations.

The bulkhead repair work will all occur behind a temporary cofferdam. The maximum dewatered area at any time will be 1,400 square feet. No piles will be driven for cofferdam installation.

Corps permits NAN-2010-01082, NAN-2012-00566 and NAN-2013-01619 were previously issued for bulkhead repairs at this location but this work was never accomplished.



SOURCE:
 U.S.G.S. QUADRANGLE MAP

N 789,943
 E 724,001

RESTORATION OF THE BYRAM RIVER BULKHEAD
 VILLAGE OF PORT CHESTER

WESTCHESTER COUNTY NEW JERSEY

BOSWELL ENGINEERING
 330 PHILLIPS AVE., SOUTH HACKENSACK, N.J. 07606

DR. BY: JMW	SCALE: 1" = 2,000'	JOB NO. 15-192
CKD. BY: FJR	DATE: JAN 2017	USGS

GENERAL NOTES:

1. DESIGN PROFESSIONAL SHALL VERIFY THAT ALL REVISIONS TO THE ORIGINAL DESIGN SHALL BE IN EFFECT AS OF MAY 2008 FOR DESIGN PURPOSES. COMPREHENSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS (28 DAY TEST).
2. CONSTRUCTION AND MATERIALS SPECIFICATIONS, STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND STATE OF NEW YORK, LATEST EDITION, SHALL BE USED UNLESS OTHERWISE NOTED AND MODIFICATIONS.
3. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN TO SCALE AND BEAM PROPORTIONS AND ARE FULLY DIMENSIONED.
4. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
5. THE COST OF WATER, FUEL, ELECTRICITY, OR OTHER UTILITY FEES SHALL BE INCLUDED IN THE CONTRACT PRICE.
6. THE COST OF ALL LIGHT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PLANS.
7. FINISHES FOR FINISHES OF OTHER RELATED SINGLE SHAPES AND STRUCTURAL UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THE CONTRACT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND STATE OF NEW YORK, LATEST EDITION, UNLESS OTHERWISE INDICATED ON THE PLANS AND NOT TO SCALE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONSTRUCTION OF SUBSTRUCTURES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND STATE OF NEW YORK, LATEST EDITION, UNLESS OTHERWISE INDICATED ON THE PLANS AND NOT TO SCALE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ALL PERCENTAGES OF SELECT GRANULAR FILL (S.F.) SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
10. CONSTRUCTION NOTES: CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. WHERE A CONFORMER IS USED, THE COST OF DEMANDING THE ENTIRE CONFORMER SHALL BE INCLUDED IN THE UNIT PRICE BID.
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13. WHERE A CONFORMER IS USED, THE COST OF DEMANDING THE ENTIRE CONFORMER SHALL BE INCLUDED IN THE UNIT PRICE BID.
14. 100 YEAR FLOOD LEVEL IS ESTIMATED TO BE 12 FT. NORTH AMERICAN VERTICAL DATUM (NAVD) FOR NORTH AMERICAN DATUM 1983 (NAVD).
15. MEAN HIGH WATER IS ESTIMATED TO BE 3.20 FT. ABOVE THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE FLOODING PERIOD WITH A RETURN PERIOD OF 100 YEARS AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
16. THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE FLOODING PERIOD SHALL BE 1.00 FT. ABOVE THE MEAN HIGH WATER ELEVATION.

17. REINFORCEMENT STEEL:
 - A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A572M (GRADE 60).
 - B. ALL REINFORCING STEEL LAP LENGTHS SHALL BE 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
 - C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI) AND THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI) AND THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI).
 - D. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI) AND THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI).
18. BONDING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI) AND THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI).
 - B. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI) AND THE CONCRETE REINFORCEMENT STEEL DEVELOPMENT INSTITUTE (CRSI).
19. EXTERIOR SURFACES OF NEW CONCRETE WALLS AND SLABS SHALL BE SEALED TO PREVENT WATER PENETRATION AND TO PREVENT CORROSION OF REINFORCEMENT STEEL.
20. REINFORCEMENT STEEL SHALL BE SEALED TO PREVENT CORROSION AND TO PREVENT CORROSION OF REINFORCEMENT STEEL.
21. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND STATE OF NEW YORK, LATEST EDITION, UNLESS OTHERWISE INDICATED ON THE PLANS AND NOT TO SCALE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
22. CONSULT LOCAL CODES AND REGULATIONS FOR CONSTRUCTION IN THE STATE OF NEW YORK.
23. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONTRACTS MAY BE SUBJECT TO CHANGE ORDERS AND VARIATIONS SHALL BE PERMITTED. CONTRACTS SHALL BE SUBJECT TO CHANGE ORDERS AND VARIATIONS SHALL BE PERMITTED. CONTRACTS SHALL BE SUBJECT TO CHANGE ORDERS AND VARIATIONS SHALL BE PERMITTED.
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38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

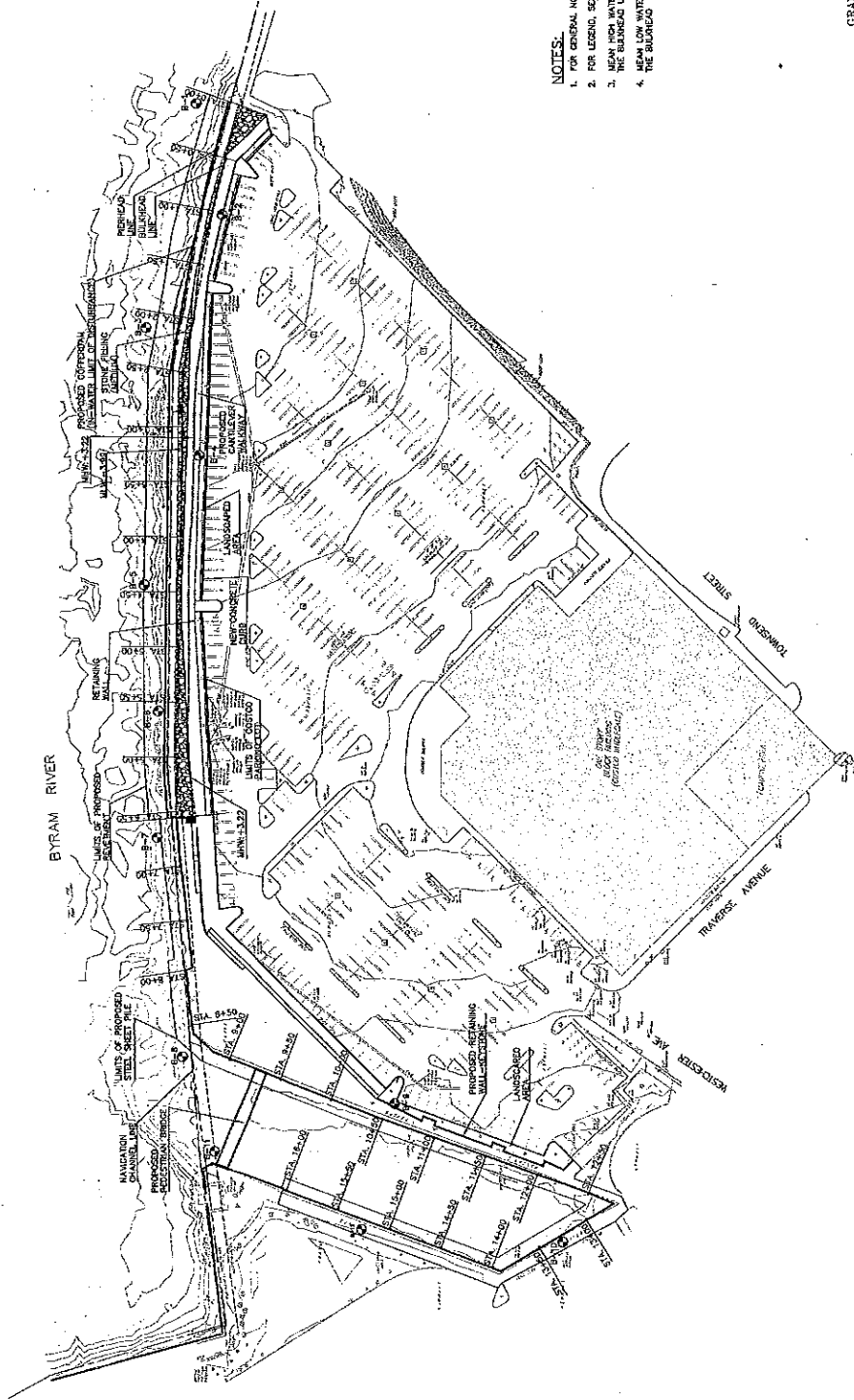
ITEM NO.	ITEM DESCRIPTION	UNIT	PLAN QUANTITY
1	MOBILIZATION/DEMobilIZATION	L.S.	1
2	REMOVE EXISTING SHEET PILE PILING AND RECONSTRUCT WALL	C.Y.	1,000
3	UNDESIGNED EXCAVATION AND DISPOSAL	C.Y.	1,000
4	STONE FILLING (MEDIUM)	C.Y.	500
5	SELECT GRANULAR FILL	C.Y.	500
6	CONCRETE FOR STRUCTURES, CLASS A, CONCRETE RETAINING WALL	C.Y.	1,000
7	UNDESIGNED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LEBS	16,000
8	TIMBER AND LUMBER	S.F.	2,000
9	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
10	INTERLOCKING CONCRETE PAVING	S.F.	2,000
11	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
12	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
13	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
14	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
15	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
16	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
17	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
18	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
19	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
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31	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
32	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
33	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
34	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
35	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
36	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
37	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200
38	CONCRETE FOR STRUCTURES, CLASS A	C.Y.	200

LEGEND:

- INDICATES BORING LOCATIONS
- LOD NO.
- PROPOSED CONFORMER (IN-WATER LIMIT OF DISTURBANCE)
- MAYNATION CHANNEL LINE
- FERRELL LINE
- BULKHEAD LINE
- NEW
- REWORK

STEPHEN T. BOSWELL		JOHN R. VALENTIN		REPAIR OF COLLAPSED BULKHEAD SECTION ALONG BYRAM RIVER		WESTCHESTER COUNTY		NEW YORK	
PROFESSIONAL ENGINEER N.Y. U.C. 097810		PROFESSIONAL ENGINEER N.Y. U.C. 095022		GENERAL NOTES & QUANTITIES		VILLAGE OF PORT CHESTER		SHEET 2 OF 25	
BOSWELL ENGINEERING		BOSWELL ENGINEERING		BOSWELL ENGINEERING		BOSWELL ENGINEERING		BOSWELL ENGINEERING	
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS		ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS		ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS		ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS		ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS	
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NAN-2018-00563



GRAPHIC SCALE
1" = 20' (AS SHOWN)

PLAN

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR LEGEND, SEE SHEET 2.
3. MEAN HIGH WATER ELEVATION IS 3.00'. IT IS LOCATED AT THE BULKHEAD UNLESS OTHERWISE SHOWN.
4. MEAN LOW WATER ELEVATION IS -3.00'. IT IS LOCATED AT THE BULKHEAD UNLESS OTHERWISE SHOWN.

REPAIR OF COLLAPSED BULKHEAD SECTION
ALONG BYRAM RIVER
GENERAL PLAN
VILLAGE OF PORT CHESTER
WESTCHESTER COUNTY
NEW YORK
DATE OF ISSUE: 11/15/18
SCALE: AS SHOWN
SHEET 4 OF 26
JOB NO. 15-192

JOHN R. VALENTIN

PROFESSIONAL ENGINEER N.Y. LIC. 07822

STEPHEN T. BOSWELL

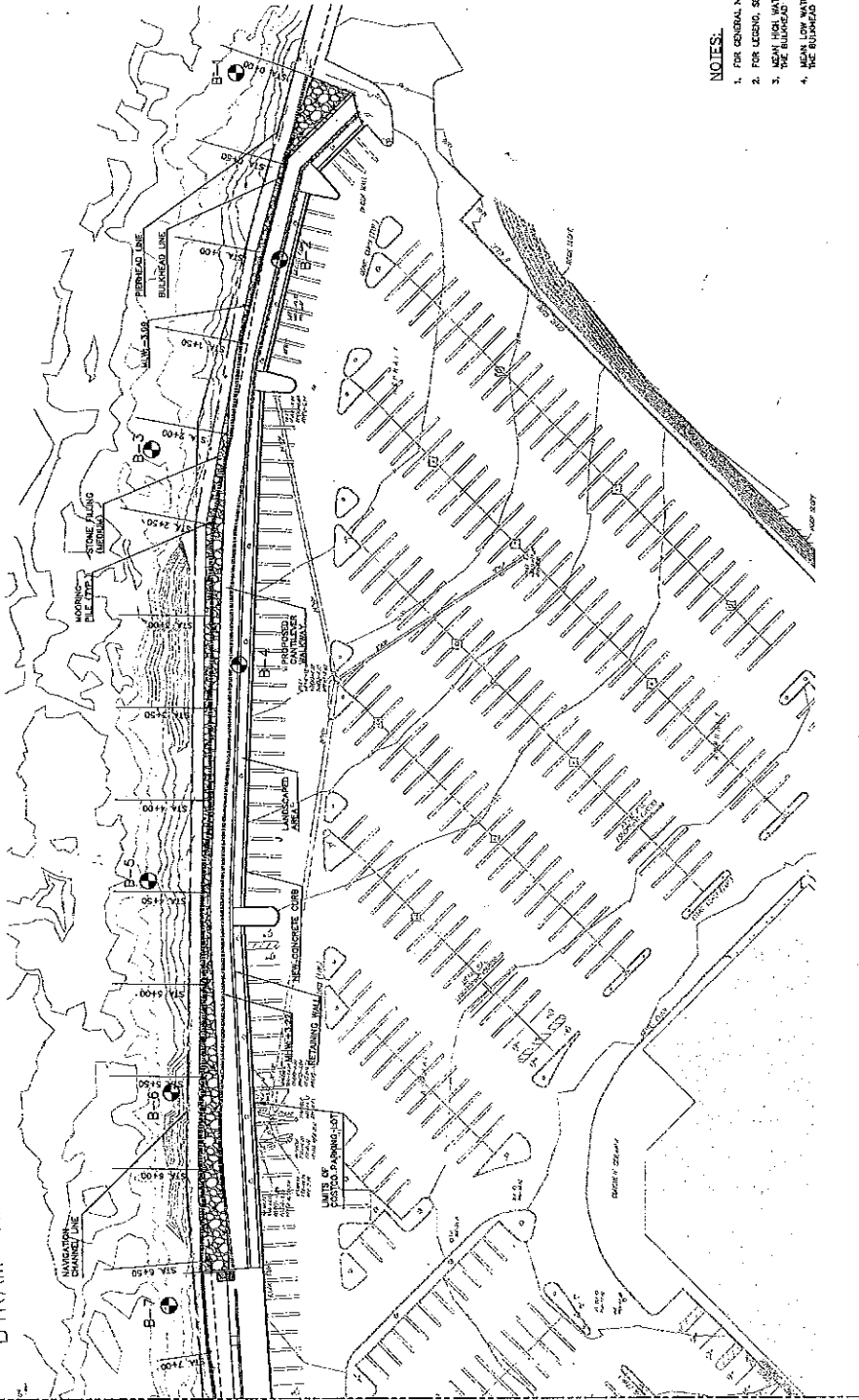
PROFESSIONAL ENGINEER N.Y. LIC. 007610

BOSWELL ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 541-0779 • FAX: (201) 541-1837
N.J. CERTIFICATE OF AUTHORIZATION NO. 2602728655

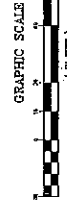
NO.	DATE	REVISIONS PER INTERCOMMENTS	DESCRIPTION	BY	CHK
1	12-29-18			JRV	JRV

NAN-2018-00563

BYRAM RIVER



- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR LEGEND, SEE SHEET 2.
 3. MEAN HIGH WATER ELEVATION IS 5.80'. IF IT IS LOCATED AT THE BULKHEAD, USE OTHER ELEVATION SHOWN.
 4. MEAN LOW WATER ELEVATION IS -2.00'. IF IT IS LOCATED AT THE BULKHEAD, USE OTHER ELEVATION SHOWN.



REPAIR OF COLLAPSED BULKHEAD SECTION
ALONG BYRAM RIVER
PARTIAL PLAN-1
WESTCHESTER COUNTY
VILLAGE OF PORT CHESTER
NEW YORK
DATE OF SHEET: 11/15/18
DRAWN BY: JRV
CHECKED BY: JRV
SCALE: AS SHOWN
SHEET 5 OF 5

STEPHEN T. BOSWELL
PROFESSIONAL ENGINEER N.Y. LIC. 067910

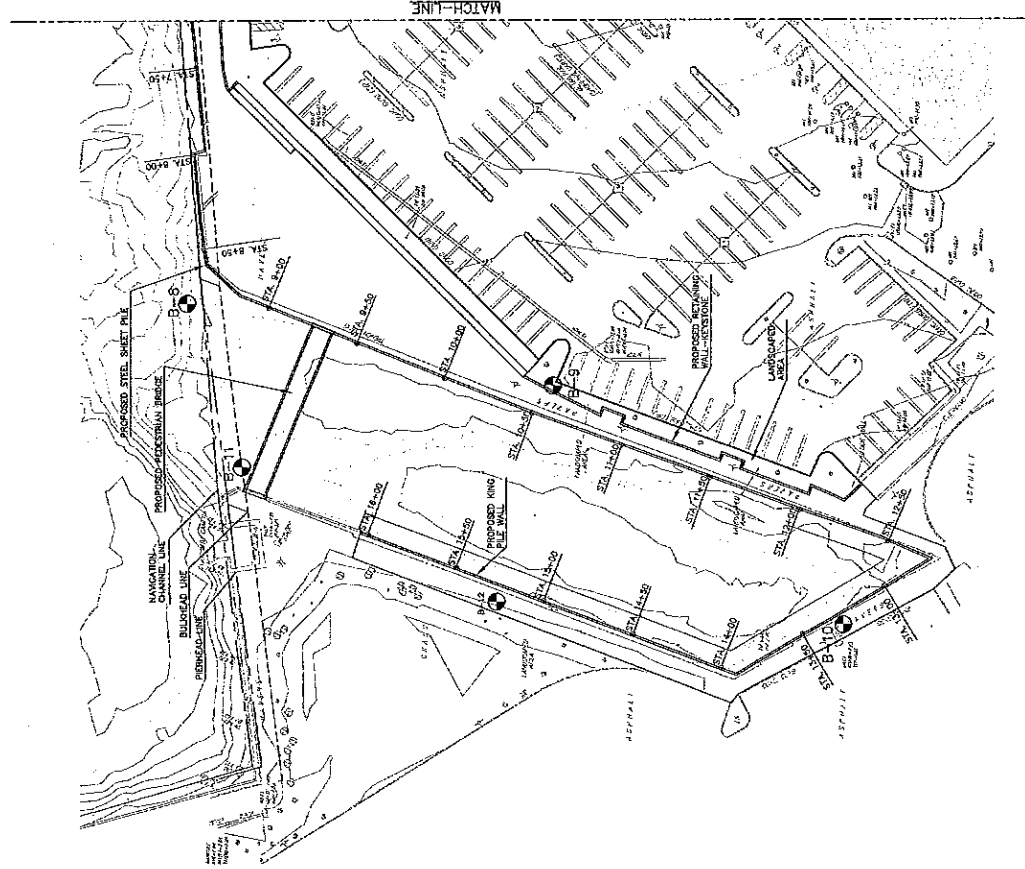
JOHN R. VALENTIN
PROFESSIONAL ENGINEER N.Y. LIC. 071822

PLAN

BOSWELL ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HAVEN, N.J. 07806
TEL: (201) 841-0770, FAX: (201) 841-1831
N.J. CERTIFICATE OF AUTHORIZATION NO. P048272588

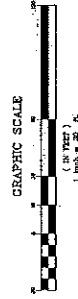
NO.	DATE	REVISION PER INSDIC COMMENTS	BY	CHK	APP
1	11/15/18	REVISED PER INSDIC COMMENTS	JRV	JRV	JRV
DESCRIPTION					

NAN-2018-00563



PLAN

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR LEGEND, SEE SHEET 2.
 3. HIGH WATER ELEVATION IS 3.20'. IT IS LOCATED AT THE BULKHEAD LINE.
 4. THE BULKHEAD, UNLESS OTHERWISE SHOWN, IS TO BE LOCATED AT THE BULKHEAD LINE.



REPAIR OF COLLAPSED BULKHEAD SECTION
ALONG BYRAM RIVER
PARTIAL PLAN-2
VILLAGE OF PORT CHESTER
WESTCHESTER COUNTY
NEW YORK

STEPHEN T. BOSWELL
PROFESSIONAL ENGINEER N.Y. LIC. 075822

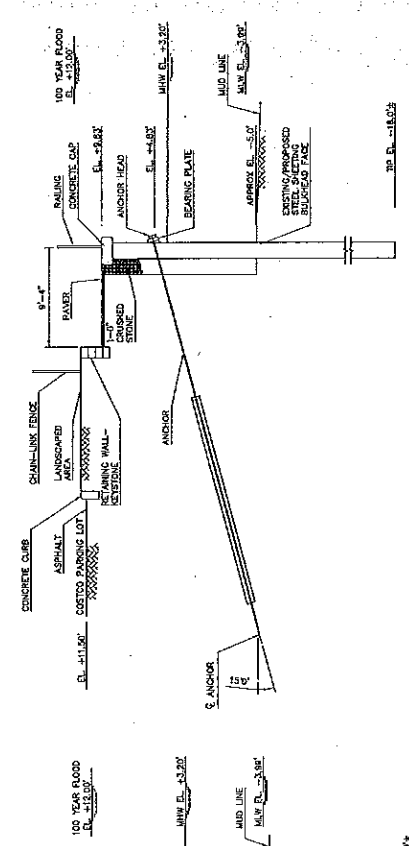
JOHN R. VALENTIN
PROFESSIONAL ENGINEER N.Y. LIC. 075822

BOSWELL ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
336 MILLERS LANE SOUTH PLACENS, N.Y. 07866
TEL: (202) 641-0700 • FAX: (202) 641-1831
N.Y. CERTIFICATE OF AUTHORIZATION NO. 74042789600

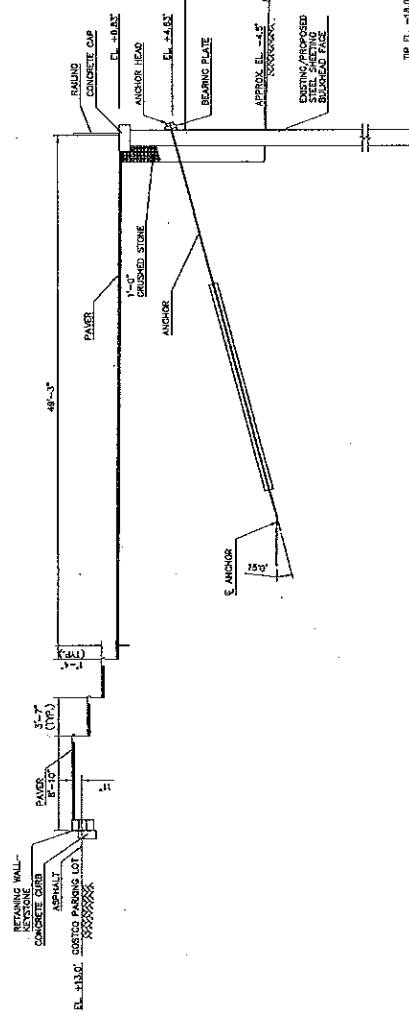
NO.	DATE	REVISION PER INVOICE COMMENTS	BY	CHK	REV
1	3-28-18	REVISION PER INVOICE COMMENTS	N/A	OK	JRV

DATE PLOTTED: 3/28/2018 11:58 AM
SCALE: 1" = 20'
SHEET 6 OF 26

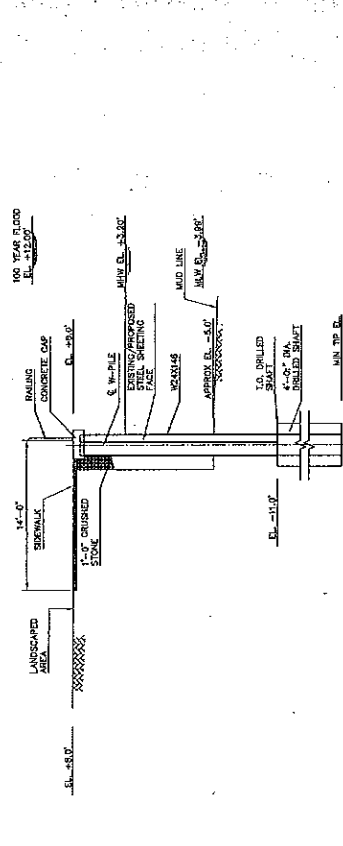
NAN-2018-00563



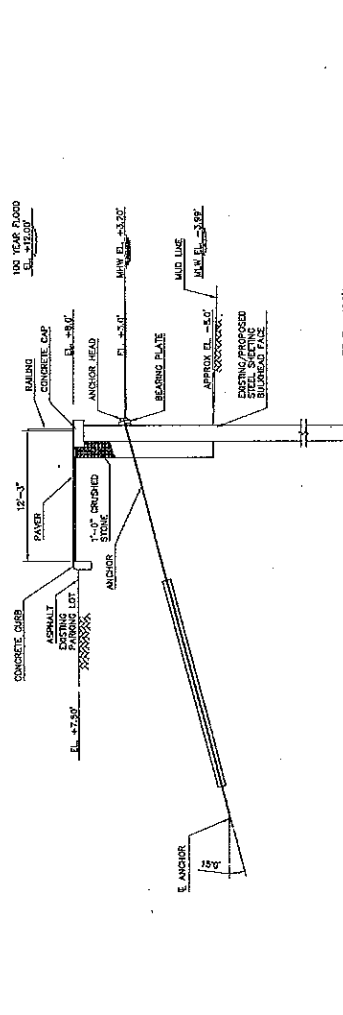
TYPICAL SECTION—TIED-BACK STEEL SHEET PILE BULKHEAD
(STA. 11+00 TO STA. 12+50)
SCALE 3/16"=1'-0"



TYPICAL SECTION—TIED-BACK STEEL SHEET PILE BULKHEAD
(STA. 9+00 TO STA. 10+50)
SCALE 3/16"=1'-0"



TYPICAL SECTION—KING PILE BULKHEAD WALL
(STA. 14+50 TO STA. 16+37)
SCALE 3/16"=1'-0"



TYPICAL SECTION—TIED-BACK STEEL SHEET PILE BULKHEAD
(STA. 13+00 TO STA. 14+00)
SCALE 3/16"=1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR LEGEND, SEE SHEET 2.
3. FOR GENERAL PLANS, SEE SHEETS 4-6.

<p>STEPHEN T. BOSWELL</p> <p>PROFESSIONAL ENGINEER N.Y. LIC. 075922</p>		<p>JOHN R. VALENTIN</p> <p>PROFESSIONAL ENGINEER N.Y. LIC. 075922</p>		<p>REPAIR OF COLLAPSED BULKHEAD SECTION ALONG BYRAM RIVER TYPICAL SECTIONS-2 WESTCHESTER COUNTY VILLAGE OF FORT CHESTER</p>	
<p>BOSWELL ENGINEERING</p> <p>ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS</p> <p>3300 ROUTE 92 ELM HURST, N.Y. 10523 TEL: (914) 261-0770 FAX: (914) 261-1833 N.Y. CERTIFICATE OF AUTHORIZATION NO. 24527886500</p>		<p>NEW YORK</p> <p>DATE: 10/15/18</p> <p>SCALE: 3/16"=1'-0"</p> <p>SHEET 8 OF 26</p>		<p>NO. DATE DESCRIPTION</p> <p>1 1-30-18 REVISION PER NYSDOT COMMENTS</p>	

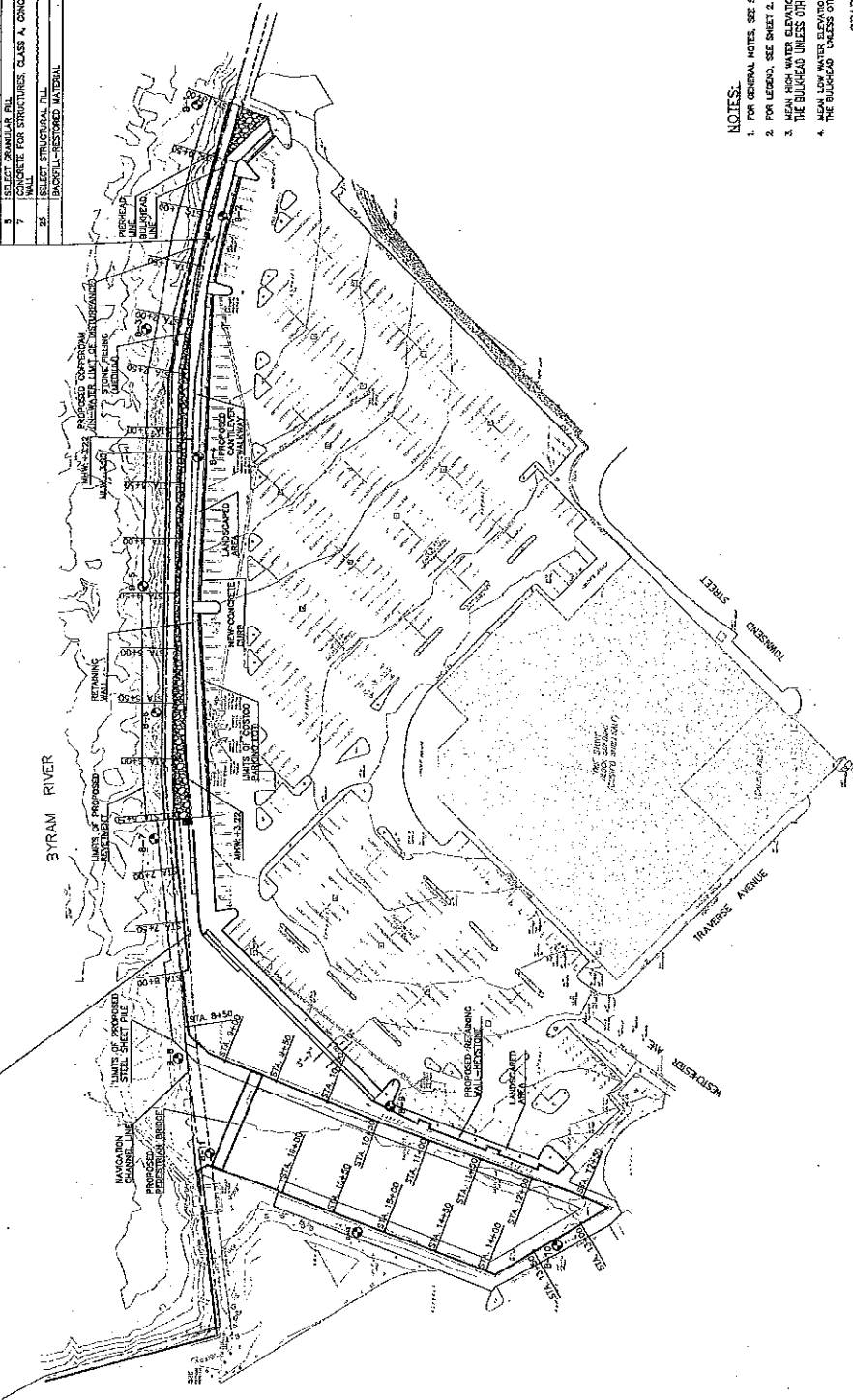
NAN-2018-00563

ESTIMATE OF QUANTITIES BELOW MAHW-BULKHEAD AREA

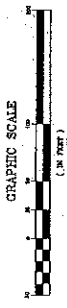
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1.	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	1,500
2.	CRUSHED STONE	C.Y.	500
3.	BAGGELL-RESTORED MATERIAL	C.Y.	1,200

ESTIMATE OF QUANTITIES BELOW MAHW-RIP-RAP AREA

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1.	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	7,000
2.	CRUSHED STONE	C.Y.	1,500
3.	CONCRETE FOR STRUCTURES, CLASS A, CONCRETE RETAINING WALL	C.Y.	600
4.	BEST STRUCTURAL FILL	C.Y.	750
5.	BAGGELL-RESTORED MATERIAL	C.Y.	750



- NOTES:
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR LEGEND, SEE SHEET 2.
 - NEAR HIGH WATER ELEVATION IS 3.20', IT IS LOCATED AT THE BULKHEAD UNLESS OTHERWISE SHOWN.
 - NEAR LOW WATER ELEVATION IS 2.97', IT IS LOCATED AT THE BULKHEAD UNLESS OTHERWISE SHOWN.



SIMPLIFIED PLAN

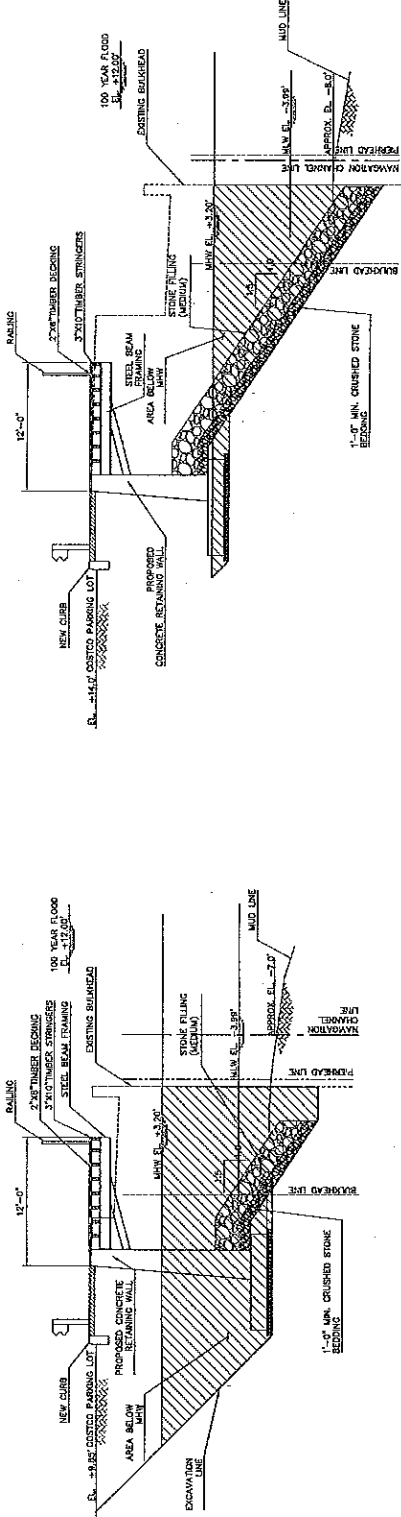
PLAN

<p>STEPHEN T. BOSWELL</p> <p>PROFESSIONAL ENGINEER N.Y. LIC. 07610</p>		<p>JOHN R. VALENTIN</p> <p>PROFESSIONAL ENGINEER N.Y. LIC. 07582</p>		<p>REPAIR OF COLLAPSED BULKHEAD SECTION ALONG BYRAM RIVER</p> <p>GENERAL PLAN</p> <p>VILLAGE OF PORT CHESTER</p> <p>WESTCHESTER COUNTY, NEW YORK</p> <p>DATE: 10/15/19</p>	
<p>BOSWELL ENGINEERING</p> <p>ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS</p> <p>310 PHILLIPS AVENUE SOUTH HAVEN, CT 06488</p> <p>TEL: (203) 641-0770 • FAX: (203) 641-1831</p> <p>N.Y. CERTIFICATE OF AUTHORIZATION NO. 24652756500</p>		<p>NO. DATE</p> <p>DESCRIPTION</p> <p>BY: DATE: CHECKED: DATE: </p>		<p>SCALE: AS SHOWN</p> <p>DATE: 10/15/19</p> <p>SHEET 9 OF 26</p>	

NAN-2018-00563

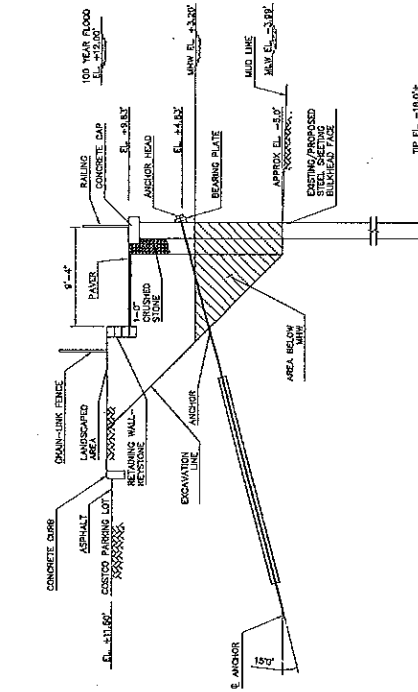
NOTES:

1. FOR GENERAL NOTES SEE SHEET 1.



TYPICAL SECTION - STEEL FRAMED CANTILEVER WALKWAY
(STA. 14+50)
SCALE 3/16\"/>

TYPICAL SECTION - STEEL FRAMED CANTILEVER
(STA. 6+50)
SCALE 3/16\"/>



TYPICAL SECTION - TIED-BACK STEEL SHEET PILE BULKHEAD
(STA. 11+00 TO STA. 12+50)
SCALE 3/16\"/>

ITEM NO.	ITEM DESCRIPTION	UNIT	PLAN QUANTITY	QTY. BELOW QUANTITY
3	100 ASBESTOS FIBERBOARD AND INSULATION	C.Y.	14.00	14.00
4	STONE FILLING (MEDIUM)	C.Y.	14.00	14.00
5	SELECT GRANULAR FILL	C.Y.	100	100
7	CONCRETE FOR STRUCTURES, CLASS A, CONCRETE RETAINING	C.Y.	1,000	850
14	CRUSHED STONE, IN-SITU ITEM # 4	C.Y.	1,000	250
20	SELECT STRUCTURAL FILL	C.Y.	1,750	250
	BACKFILL - RESTORED MATERIAL	C.Y.	1,000	1,000

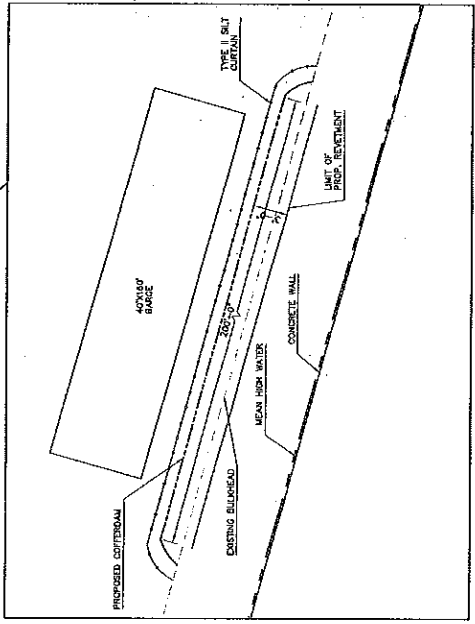
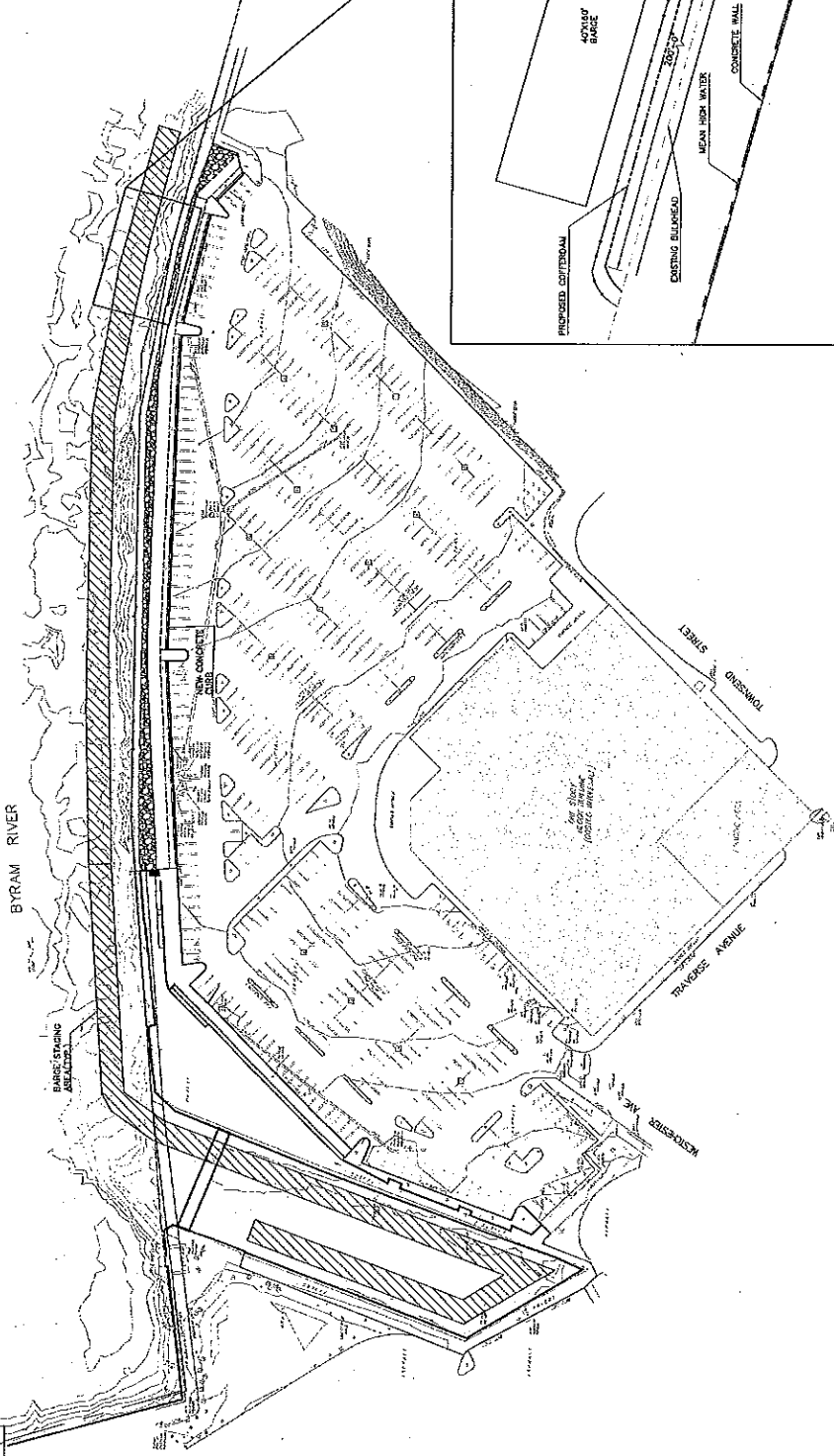
SIMPLIFIED PLAN

<p>REPAIR OF COLLAPSED BULKHEAD SECTION ALONG BYRAM RIVER VILLAGE OF PORT CHESTER TYPICAL SECTIONS</p>		<p>NEW YORK STATE OF NEW YORK JULY 15, 2018 SHEET 99 OF 26</p>			
<p>WESTCHESTER COUNTY VILLAGE OF PORT CHESTER</p>		<p>SCALE: AS SHOWN DATE: JULY 15, 2018 SHEET 99 OF 26</p>			
<p>STEPHEN T. BOSWELL PROFESSIONAL ENGINEER N.Y. LIC. 079710</p>		<p>JOHN R. VALENTIN PROFESSIONAL ENGINEER N.Y. LIC. 079522</p>			
<p>BOSWELL ENGINEERING ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS 330 TEL: (503) 841-0770 • FAX: (503) 841-1831 N.Y. CERTIFICATE OF AUTHORIZATION NO. 2464298800</p>		<p>ESTIMATE OF QUANTITIES</p>			
NO.	DATE	DESCRIPTION	AMOUNT	UNIT	REMARKS

NAN-2018-00563

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR LEGEND, SEE SHEET 2.
3. FOR SILT CURTAIN DETAILS, SEE SHEET 22.
4. THE CONTRACTOR SHALL FINISH AND INSTALL BRACED SHEETING STRUCTURES FOR THE NEW BARGE STAGING AREAS AND SHALL PROVIDE ALL NECESSARY TEMPORARY STRUCTURES AND LOGS INCLUDING ALL NECESSARY DETAILS AND DIMENSIONS. ALL WORK SHALL BE DONE UNDER THE ITEN CURTAIN (TYPE 27).
5. DESK AND NUMBER OF ALL SUBMITTALS FOR THE DEPTH HEIGHT OF THE CURTAIN AND OTHER ASPECTS DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT THE CURTAIN IN THE EVENT OF A FLOOD DRAINING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT ALL DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR IS ADVISED IN THE EVENT OF ANY CHANGES TO THE NECESSARY EQUIPMENT FOR THE CURTAIN INSTALLATION.
6. WORK BELOW AREA IS TO BE COMPLETED WITHIN 10/1-20/15 TO PREVENT WINTER FLOODING DURING SUMMER SPANNING FISH SPECIES AND ICE LIAISON.



TYPICAL IN-WATER CONSTRUCTION CONFIGURATION
SCALE: N.T.S.

PLAN
SCALE: N.T.S.

STEPHEN T. BOSWELL
PROFESSIONAL ENGINEER N.Y. LIC. 07910

JOHN R. VALENTIN
PROFESSIONAL ENGINEER N.Y. LIC. 07922

REPAIR OF COLLAPSED BULKHEAD SECTION
ALONG BYRAM RIVER
BARGE STAGING PLAN
VILLAGE OF PORT CHESTER
WESTCHESTER COUNTY
NEW YORK
DATE: 15-192
SHEET 26 OF 26

BOSWELL ENGINEERING
ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606
TEL: (201) 641-0770 • FAX: (201) 641-1831
WWW.BOSWELL-ENGINEERING.COM

NO.	DATE	REVISION	BY	CHK	APP
1	12-29-18	REVISION FOR INTERCOMMENTS	J.R.V.	S.T.B.	J.R.V.
2	01-15-19	ISSUE FOR CONSTRUCTION	J.R.V.	S.T.B.	J.R.V.