

ENVIRONMENTAL ASSESSMENT

*Environmental Assessment  
Appendices*

*Fort Norfolk Pier Rehabilitation and Expansion Project  
USACE, Norfolk District, Fort Norfolk, Virginia*

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# APPENDIX E

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Joint Permit Application



Reply to  
Attention of

DEPARTMENT OF THE ARMY  
US ARMY CORPS OF ENGINEERS  
NORFOLK DISTRICT  
FORT NORFOLK  
803 FRONT STREET  
NORFOLK VA 23510-1011

January 6, 2022

Mr. Randy Owen  
Virginia Marine Resources Commission  
Habitat Management Division  
380 Fenwick Road, Building 96  
Fort Monroe, Virginia 23651

Dear Mr. Owen:

Please find enclosed a Joint Permit Application for the NAO Pier Rehabilitation and Improvements Project, located at Fort Norfolk, Norfolk, Virginia. This project includes improvements to the existing NAO pier to allow for the safe mooring of three 65 foot vessels and to protect the mooring location from wave action and severe storm events. A full description of the work and drawings are included in this package.

Should you have any questions or require further information on this submittal, please contact Shannon Reinheimer of my staff at [shannon.j.reinheimer@usace.army.mil](mailto:shannon.j.reinheimer@usace.army.mil) or 757-201-7074. Thank you for your assistance.

Sincerely,

Digitally signed by DOBBINS-  
NOBLE.LESLEY.CAROLE.10474168  
48  
Date: 2022.01.06 08:49:20 -05'00'

Lesley Dobbins-Noble  
Chief, Operations Branch

Enclosures:  
Joint Permit Application

- ❖ DEQ: Permit application fees required for Virginia Water Protection permits – while detailed in 9VAC25-20 – are conveyed to the applicant by the applicable DEQ office (<http://www.deq.virginia.gov/Locations.aspx>). Complete the Permit Application Fee Form and submit it per the instructions to the address listed on the form. Instructions for submitting any other fees will be provided to the applicant by DEQ staff.
- ❖ VMRC: An application fee of \$300 may be required for projects impacting tidal wetlands, beaches and/or dunes when VMRC acts as the LWB. VMRC will notify the applicant in writing if the fee is required. Permit fees involving subaqueous lands are \$25.00 for projects costing \$10,000 or less and \$100 for projects costing more than \$10,000. Royalties may also be required for some projects. The proper permit fee and any required royalty is paid at the time of permit issuance by VMRC. VMRC staff will send the permittee a letter notifying him/her of the proper permit fees and submittal requirements.
- ❖ LWB: Permit fees vary by locality. Contact the LWB for your project area or their website for fee information and submittal requirements. Contact information for LWBs may be found at [http://ccrm.vims.edu/permits\\_web/guidance/local\\_wetlands\\_boards.html](http://ccrm.vims.edu/permits_web/guidance/local_wetlands_boards.html).

FOR AGENCY USE ONLY	
	Notes:
	JPA #

## APPLICANTS

### Part 1 – General Information

**PLEASE PRINT OR TYPE ALL ANSWERS:** If a question does not apply to your project, please print N/A (not applicable) in the space provided. If additional space is needed, attach 8-1/2 x 11 inch sheets of paper.

<u><b>Check all that apply</b></u>				
Pre-Construction Notification (PCN) <input type="checkbox"/> NWP # _____ <i>(For Nationwide Permits ONLY - No DEQ-VWP permit writer will be assigned)</i>	Regional Permit 17 (RP-17) <input type="checkbox"/>			
<b>County or City in which the project is located:</b> <u>Norfolk</u>				
<b>Waterway at project site:</b> <u>Elizabeth River</u>				
<b>PREVIOUS ACTIONS RELATED TO THE PROPOSED WORK (Include all federal, state, and local pre application coordination, site visits, previous permits, or applications whether issued, withdrawn, or denied)</b>				
Historical information for past permit submittals can be found online with VMRC - <a href="https://webapps.mrc.virginia.gov/public/habitat/">https://webapps.mrc.virginia.gov/public/habitat/</a> - or VIMS - <a href="http://ccrm.vims.edu/perms/newpermits.html">http://ccrm.vims.edu/perms/newpermits.html</a>				
Agency	Action / Activity	Permit/Project number, including any non-reporting Nationwide permits previously used (e.g., NWP 13)	Date of Action	If denied, give reason for denial
N/A				

## Part 1 - General Information (continued)

1. Applicant's legal name\* and complete mailing address: Contact Information:

Lesley Dobbins-Noble  
United States Army Corps of Engineers  
Norfolk District  
803 Front Street, Norfolk, VA 23510

Home ( )  
Work (757) 201-7764  
Fax ( )  
Cell ( )  
e-mail

State Corporation Commission Name and ID Number (if applicable)

2. Property owner(s) legal name\* and complete address, if different from applicant: Contact Information:

Unites States Army Corps of Engineers  
Norfolk District  
801 Front Street, Norfolk, VA 23510

Home ( )  
Work (757) 201-7500  
Fax ( )  
Cell ( )  
e-mail

State Corporation Commission Name and ID Number (if applicable)

3. Authorized agent name\* and complete mailing address (if applicable):

Brian C. Moody, McLaren Technical Services  
530 Chestnut Ridge Road  
Woodcliff Lake, NJ 07677

Contact Information:

Home ( )  
Work (201) 775-6000  
Fax (201) 746-8522  
Cell ( )  
e-mail permits@mgmclaren.com

State Corporation Commission Name and ID Number (if applicable)

**\* If multiple applicants, property owners, and/or agents, each must be listed and each must sign the applicant signature page.**

4. Provide a detailed description of the project in the space below, including the type of project, its dimensions, materials, and method of construction. Be sure to include how the construction site will be accessed and whether tree clearing and/or grading will be required, including the total acreage. If the project requires pilings, please be sure to include the total number, type (e.g. wood, steel, etc), diameter, and method of installation (e.g. hammer, vibratory, jetted, etc). If additional space is needed, provide a separate sheet of paper with the project description.

This project proposes to rehabilitate the existing NAO Pier 1 at Fort Norfolk. The primary goal of the project is to modify the existing pier to allow for the safe mooring of three (3) 65 ft vessels at Ft. Norfolk and protect the mooring location from wave action and severe storm events. Currently, the existing NAO Pier 1 is not an adequate mooring location in moderate to severe weather situations in conjunction with simultaneous high tides. During these storm events with the current state of the pier, the vessels are relocated to other facilities for the duration of the storm event. As a result, the vessels may not be able to access the port for multiple days before or after a storm event, preventing the USACE from performing crucial port and channel surveys required for maintaining navigable waterways.

The north side of NAO Pier 1 will be developed with a floating mooring system to allow for minimal adjustments of mooring lines during tidal fluctuations. A "main" floating dock with two finger floating docks (three slips) will be installed. The freeboard of the docks will be 30" (maximum for stability). The NAO Pier 1 will be modified for new utilities as well as raised to accommodate for rising tide levels and a new gangway. Pier raising will be done by building a secondary deck atop the existing pier. Wide flange steel beams will be used to increase the height and a fiberglass grating will be used for the new deck surface. New concrete edge beams will be poured atop the perimeter of the pier, and will include scuppers to handle drainage. All concrete pouring will take place above the water on the existing structure. None of the existing pilings have been or will be treated with creosote.

(See attached supplement for more details.)



## Part 1 - General Information (continued)

5. Have you obtained a contractor for the project? \_\_\_ Yes\* x \_\_\_ No. \*If your answer is "Yes" complete the remainder of this question and submit the Applicant's and Contractor's Acknowledgment Form (enclosed)

Contractor's name\* and complete mailing address:

N/A

Contact Information:

Home ( ) \_\_\_\_\_

Work ( ) \_\_\_\_\_

Fax ( ) \_\_\_\_\_

Cell ( ) \_\_\_\_\_

email \_\_\_\_\_

State Corporation Commission Name and ID Number (if applicable) \_\_\_\_\_

**\* If multiple contractors, each must be listed and each must sign the applicant signature page.**

6. List the name, address and telephone number of the newspaper having general circulation in the area of the project. Failure to complete this question may delay local and State processing.

Name and complete mailing address:

Daily Press

703 Mariners Row

Newport News, VA 23606

Telephone number

( 757 ) 247-4600

7. Give the following project location information:

Street Address (911 address if available) 803 Front Street, Norfolk, VA 23510

Lot/Block/Parcel# 1427487793

Subdivision N/A

City / County Norfolk ZIP Code 23510

Latitude and Longitude at Center Point of Project Site (Decimal Degrees):

36.85741 / -73.30749 (Example: 36.41600/-76.30733)

If the project is located in a rural area, please provide driving directions giving distances from the best and nearest visible landmarks or major intersections. *Note: if the project is in an undeveloped subdivision or property, clearly stake and identify property lines and location of the proposed project. A supplemental map showing how the property is to be subdivided should also be provided.*

N/A

8. What are the *primary and secondary purposes of and the need for* the project? For example, the primary purpose may be "to protect property from erosion due to boat wakes" and the secondary purpose may be "to provide safer access to a pier."

The primary purpose of the project is to modify Pier 1 to safely moor three (3) 65 ft vessels at Ft. Norfolk. The secondary purpose is to provide continued safe access to the waterway by allowing USACE to effectively and efficiently monitor the navigable waterway after severe storm events.

## Part 1 - General Information (continued)

9. Proposed use (check one):

- ☐ Single user (private, non-commercial, residential)  
☒ Multi-user (community, commercial, industrial, government)

10. Describe alternatives considered and the measures that will be taken to avoid and minimize impacts, to the maximum extent practicable, to wetlands, surface waters, submerged lands, and buffer areas associated with any disturbance (clearing, grading, excavating) during and after project construction. *Please be advised that unavoidable losses of tidal wetlands and/or aquatic resources may require compensatory mitigation.*

Alternative 1: No Action - The USACE vessels will continue to have a suboptimal berthing.

Alternative 2: Rehabilitation of NAO Pier 1 - Preferred alternative as proposed by this application.

Alternative 3: Rehabilitation of the South Basin - Less optimal location for berthing.

Best Management Practices shall be used to minimize impacts throughout construction including the use of turbidity curtains when performing in water work and the use of a vibratory hammer as much as practically possible.

11. Is this application being submitted for after-the-fact authorization for work which has already begun or been completed? ☐ Yes ☒ No. If yes, be sure to clearly depict the portions of the project which are already complete in the project drawings.

12. Approximate cost of the entire project (materials, labor, etc.): \$ 4,700,000  
Approximate cost of that portion of the project that is channelward of mean low water:  
\$ 4,700,000

13. Completion date of the proposed work: June - 2023

14. Adjacent Property Owner Information: List the name and complete **mailing address**, including zip code, of each adjacent property owner to the project. (NOTE: If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.) Failure to provide this information may result in a delay in the processing of your application by VMRC.

1. Harbor Point Investors, LLC  
701 Front Street, Norfolk, VA 23511
2. Norfolk Redevelopment and Housing Authority (NRHA)  
1 Colley Avenue, Norfolk, VA 23511
3. Commonwealth of Virginia  
830 Southampton Avenue, Norfolk, VA 23511
4. Eastern Virginia Medical School  
855 Brambleton Avenue, Norfolk, VA 23511
5. Children's Hospital of The King's Daughters  
850 Southampton Avenue, Norfolk, VA 23511
6. 139 Riverview, LLC  
139 Riverview Avenue, Norfolk, VA 23511
7. Marine Hydraulics International, LLC  
151 Riverview Avenue, Norfolk, VA 23511

## Part 2 - Signatures

### 1. Applicants and property owners (if different from applicant).

**NOTE: REQUIRED FOR ALL PROJECTS**

**PRIVACY ACT STATEMENT:** The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

**CERTIFICATION:** I am hereby applying for all permits typically issued by the DEQ, VMRC, USACE, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

## Lesley Dobbins-Noble

Applicant's Legal Name (printed/typed)

(Use if more than one applicant)



Digitally signed by DOBBINS-  
NOBLE.LESLEY.CAROLE.1047416848  
Date: 2022.01.06 08:54:04 -05'00'

Applicant's Signature

(Use if more than one applicant)

## 6 January 2022

Date

Property Owner's Legal Name (printed/typed)  
(If different from Applicant)

(Use if more than one owner)

Property Owner's Signature

(Use if more than one owner)

Date

## Part 2 – Signatures (continued)


### 2. Applicants having agents (if applicable)

#### CERTIFICATION OF AUTHORIZATION


I (we), Lesley Dobbins-Noble, hereby certify that I (we) have authorized Brian Moody  
(Applicant's legal name(s)) (Agent's name(s))

to act on my behalf and take all actions necessary to the processing, issuance and acceptance of this permit and any and all standard and special conditions attached.

We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.

  
(Agent's Signature)

\_\_\_\_\_  
(Use if more than one agent)

01/06/2022  
(Date)  
  
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NOBLE.LESLEY.CAROLE.10474168  
48  
Date: 2022.01.06 10:13:53 -05'00'

\_\_\_\_\_  
(Applicant's Signature)

\_\_\_\_\_  
(Use if more than one applicant)

6 January 2022

\_\_\_\_\_  
(Date)

### 3. Applicant's having contractors (if applicable)

#### CONTRACTOR ACKNOWLEDGEMENT

I (we), \_\_\_\_\_, have contracted \_\_\_\_\_  
(Applicant's legal name(s)) (Contractor's name(s))  
to perform the work described in this Joint Permit Application, signed and dated \_\_\_\_\_.

We will read and abide by all conditions set forth in all Federal, State and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, state and local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes. In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all terms and conditions.

\_\_\_\_\_  
Contractor's name or name of firm

\_\_\_\_\_  
Contractor's or firms address

\_\_\_\_\_  
Contractor's signature and title

\_\_\_\_\_  
Contractor's License Number

\_\_\_\_\_  
Applicant's signature

\_\_\_\_\_  
(use if more than one applicant)

\_\_\_\_\_  
Date

## Part 2 – Signatures (continued)

### ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), \_\_\_\_\_, own land next to (across the water  
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of \_\_\_\_\_.  
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated \_\_\_\_\_  
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT \_\_\_\_\_ ABOUT THE PROJECT.

I DO NOT OBJECT \_\_\_\_\_ TO THE PROJECT.

I OBJECT \_\_\_\_\_ TO THE PROJECT.

**The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.**

(Before signing this form be sure you have checked the appropriate option above).

\_\_\_\_\_  
Adjacent/nearby property owner's signature(s)

\_\_\_\_\_  
Date

**Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.**

## Part 2 – Signatures (continued)

### ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I (we), \_\_\_\_\_, own land next to (across the water  
(Print adjacent/nearby property owner's name)

from/on the same cove as) the land of \_\_\_\_\_.  
(Print applicant's name(s))

I have reviewed the applicant's project drawings dated \_\_\_\_\_  
(Date)

to be submitted for all necessary federal, state and local permits.

I HAVE NO COMMENT \_\_\_\_\_ ABOUT THE PROJECT.

I DO NOT OBJECT \_\_\_\_\_ TO THE PROJECT.

I OBJECT \_\_\_\_\_ TO THE PROJECT.

**The applicant has agreed to contact me for additional comments if the proposal changes prior to construction of the project.**

(Before signing this form, be sure you have checked the appropriate option above).

\_\_\_\_\_  
Adjacent/nearby property owner's signature(s)

\_\_\_\_\_  
Date

**Note: If you object to the proposal, the reason(s) you oppose the project must be submitted in writing to VMRC. An objection will not necessarily result in denial of the project; however, valid complaints will be given full consideration during the permit review process.**

## Part 3 – Appendices

Please complete and submit the appendix questions applicable to your project, and attach the required vicinity map(s) and drawings to your application. If an item does not apply to your project, please write “N/A” in the space provided.

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**Appendix A: (TWO PAGES) Projects for Access** to the water such as private and community piers, boathouses, marinas, moorings, and boat ramps. Answer all questions that apply.

**1. Briefly describe your proposed project.**

This project involves rehabilitation of the NAO Pier 1 and installation of a concrete floating dock. A wave fence extending along the existing pier and a wave screen will be added, as shown on the attached drawings. A boat lift will also be installed. New and raised utilities will be installed. These modifications and additions will be made to a currently existing structure to allow for the safe berthing of three (3) USACE vessels at the site.

**2. For private, noncommercial piers:**

Do you have an existing pier on your property? ☒ Yes ☐ No

If yes, will it be removed? ☐ Yes ☒ No

Is your lot platted to the mean low water shoreline? ☐ Yes ☒ No

What is the overall length of the proposed structure? 24 feet.

Channelward of Mean High Water? ☐ feet.

Channelward of Mean Low Water? ☐ feet.

What is the area of the piers and platforms that will be constructed over

Tidal non-vegetated wetlands ☐ square feet.

Tidal vegetated wetlands ☐ square feet.

Submerged lands ☐ square feet.

What is the total size of any and all L- or T-head platforms? ☐ sq. ft.

For boathouses, what is the overall size of the roof structure? ☐ sq. ft.

Will your boathouse have sides? ☐ Yes ☒ No.

NOTE: All proposals for piers, boathouses and shelter roofs must be reviewed by the Virginia Marine Resources Commission (Commission or VMRC), however, pursuant to § [28.2-1203](#) A 5 of the Code of Virginia a VMRC permit may not be required for such structures (except as required by subsection D of § [28.2-1205](#) for piers greater than 100 feet in length involving commercially productive leased oyster or clam grounds), provided that (i) the piers do not extend beyond the navigation line or private pier lines established by the Commission or the United States Army Corps of Engineers (USACE), (ii) the piers do not exceed six feet in width and finger piers do not exceed five feet in width, (iii) any L or T head platforms and appurtenant floating docking platforms do not exceed, in the aggregate, 400 square feet, (iv) if prohibited by local ordinance open-sided shelter roofs or gazebo-type structures shall not be placed on platforms as described in clause (iii), but may be placed on such platforms if not prohibited by local ordinance, and (v) the piers are determined not to be a navigational hazard by the Commission. Subject to any applicable local ordinances, such piers may include an attached boat lift and an open-sided roof designed to shelter a single boat slip or boat lift. In cases in which open-sided roofs designed to shelter a single boat, boat slip or boat lift will exceed 700 square feet in coverage or the open-sided shelter roofs or gazebo structures exceed 400 square feet, and in cases in which an adjoining property owner objects to a proposed roof structure, permits shall be required as provided in § [28.2-1204](#).



### Part 3 – Appendices (continued)

3. **For USACE permits**, in cases where the proposed pier will encroach beyond one fourth the waterway width (as determined by measuring mean high water to mean high water or ordinary high water mark to ordinary high water mark), the following information must be included before the application will be considered complete. For an application to be considered complete:
  - a. The USACE MAY require depth soundings across the waterway at increments designated by the USACE project manager. Typically 10-foot increments for waterways less than 200 feet wide and 20-foot increments for waterways greater than 200 feet wide with the date and time the measurements were taken and how they were taken (e.g., tape, range finder, etc.).
  - b. The applicant MUST provide a justification as to purpose if the proposed work would extend a pier greater than one-fourth of the distance across the open water measured from mean high water or the channelward edge of the wetlands.
  - c. The applicant MUST provide justification if the proposed work would involve the construction of a pier greater than five feet wide or less than four feet above any wetland substrate.
4. Provide the type, size, and registration number of the vessel(s) to be moored at the pier or mooring buoy.

Type	Length	Width	Draft	Registration #
N/A	LOA: 61'-4"	23'-11"	3'-6"	Hull no. FB061 (EWELL)
N/A	LOA: 67.7'	19.26'	6'-0"	Swiftships hull no. 0471 (Adams II)
N/A	LOA: 53'-4"	15'-0"	4'-6"	Hull no. 366 (Harrell)

5. **For Marinas, Commercial Piers, Governmental Piers, Community Piers and other non-private piers**, provide the following information:
  - A) Have you obtained approval for sanitary facilities from the Virginia Department of Health? N/A (required pursuant to Section 28.2-1205 C of the Code of Virginia).
  - B) Will petroleum products or other hazardous materials be stored or handled at your facility? TBD.
  - C) Will the facility be equipped to off-load sewage from boats? Yes.
  - D) How many wet slips are proposed? 3. How many are existing? 3.
  - E) What is the area of the piers and platforms that will be constructed over
    - Tidal non-vegetated wetlands 9611 square feet
    - Tidal vegetated wetlands N/A square feet
    - Submerged lands N/A square feet
6. For **boat ramps**, what is the overall length of the structure? N/A feet.
  - From Mean High Water? N/A feet.
  - From Mean Low Water? N/A feet.

Note: drawings must include the construction materials, method of installation, and all dimensions. If tending piers are proposed, complete the pier portion.

**Note: If dredging or excavation is required, you must complete the Standard Joint Point Permit application.**



## Part 3 – Appendices (continued)

**Appendix B: Projects for Shoreline Stabilization** in tidal wetlands, tidal waters and dunes/beaches including riprap revetments and associated backfill, marsh toe stabilization, bulkheads and associated backfill, breakwaters, beach nourishment, groins, jetties, and living shoreline projects. Answer all questions that apply. Please provide any reports provided from the Shoreline Erosion Advisory Service or VIMS.

**NOTE:** It is the policy of the Commonwealth that living shorelines are the preferred alternative for stabilizing tidal shorelines (Va. Code § 28.2-104.1). **Information on non-structural, vegetative alternatives (i.e., Living Shoreline) for shoreline stabilization is available at [http://ccrm.vims.edu/coastal\\_zone/living\\_shorelines/index.html](http://ccrm.vims.edu/coastal_zone/living_shorelines/index.html).**

1. Describe each **revetment, bulkhead, marsh toe, breakwater, groin, jetty, other structure, or living shoreline project** separately in the space below. Include the overall length in linear feet, the amount of impacts in acres, and volume of associated backfill below mean high water and/or ordinary high water in cubic yards, as applicable:

A steel breakwater wave screen will be installed to the west and perpendicular of the pier to protect the dock system from wave action. The wave screen will consist of two legs, joined at approximately a 120-degree angle. The shorter of the two legs will be 90 ft long and the longer of the two will be 220 ft long. Twenty-one (21) 30-inch-diameter steel pipe piles will support the screen. The wave screen will have a 3 ft-high opening at the bottom.

A new timber wave fence will be installed on the existing timber fender. 335 LF of timber wave fence will be installed along the south side of the existing pier. Off the southwest corner of the pier, the wave screen will be extended another 45 LF using three (3) 30-inch-diameter steel pipe piles to support the screen. There will be two steel monopiles with floating donut fenders, one at the west end of the 45 LF of new wave screen and the other at the south end of the short 90 LF segment of the larger wave screen. These monopiles will be separate by approximately 53 ft'-4 in" to create the opening of the basin. The wave fence will have a 3 ft-high opening at the bottom.

2. What is the maximum encroachment channelward of mean high water? 597 feet.  
Channelward of mean low water? 589 feet.  
Channelward of the back edge of the dune or beach? N/A feet.
3. Please calculate the square footage of encroachment over:
  - Vegetated wetlands N/A square feet
  - Non-vegetated wetlands N/A square feet
  - Subaqueous bottom N/A square feet
  - Dune and/or beach N/A square feet
4. For bulkheads, is any part of the project maintenance or replacement of a previously authorized, currently serviceable, existing structure? N/A Yes N/A No.

If yes, will the construction of the new bulkhead be no further than two (2) feet channelward of the existing bulkhead? N/A Yes N/A No.

If no, please provide an explanation for the purpose and need for the additional encroachment.

N/A

## Part 3 – Appendices (continued)

5. Describe the type of construction and **all** materials to be used, including source of backfill material, if applicable (e.g., vinyl sheet-pile bulkhead, timber stringers and butt piles, 100% sand backfill from upland source; broken concrete core material with Class II quarry stone armor over filter cloth).

**NOTE: Drawings must include construction details, including dimensions, design and all materials, including fittings if used.**

N/A

6. If using stone, broken concrete, etc. for your structure(s), what is the average weight of the:

Core (inner layer) material N/A pounds per stone      Class size N/A

Armor (outer layer) material N/A pounds per stone      Class size N/A

7. For **beach nourishment**, including that associated with breakwaters, groins or other structures, provide the following:

- Volume of material
 

N/A	cubic yards channelward of mean low water
N/A	cubic yards landward of mean low water
N/A	cubic yards channelward of mean high water
N/A	cubic yards landward of mean high water

- Area to be covered
 

N/A	square feet channelward of mean low water
N/A	square feet landward of mean low water
N/A	cubic yards channelward of mean high water
N/A	cubic yards landward of mean high water

- Source of material, composition (e.g. 90% sand, 10% clay): N/A
- Method of transportation and placement:

N/A

- Describe any proposed vegetative stabilization measures to be used, including planting schedule, spacing, monitoring, etc. Additional guidance is available at <http://www.vims.edu/about/search/index.php?q=planting+guidelines>:

N/A

### Part 3 – Appendices (continued)

**Appendix C: Crossings** in, on, over, or under, waters, submerged lands, tidal wetlands and/or dunes and beaches, including but not limited to, bridges, walkways, pipelines and utility lines.

1. What is the purpose and method of installation of the crossing?  
N/A
2. What is the width of the waterway and/or wetlands to be crossed  
from mean high water to mean high water (tidal waters)? N/A feet.  
from mean low water to mean low water (tidal waters)? N/A feet.  
from ordinary high water to ordinary high water (non-tidal waters)? N/A feet.
3. For bridges (footbridges, golf cart bridges, roadway bridges, etc.), what is the width of the structure over the tidal wetlands, dunes/beaches and/or submerged lands? N/A square feet.
4. For overhead crossings:
  - a. What will be the height above mean high water? N/A feet.
  - b. If there are other overhead crossings in the area, what is the minimum height? N/A feet.
  - c. If the proposed crossing is an electrical line, please confirm the total number of electrical circuits: N/A
5. For buried crossings, what will be the depth below the substrate? N/A feet. Will the proposed utility provide empty conduits for any additional utilities that may propose to co-locate at a later date? N/A Yes N/A No.
6. Will there be any excavation or fill required for placement of abutments, piers, towers, or other permanent structures on State-owned submerged lands, tidal wetlands, and dunes/beaches? N/A Yes N/A No.

If yes, please provide the following:

- |   |  |
|---|--|
| a. Amount of excavation in wetlands       | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |
| b. Amount of excavation in submerged land | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |
| c. Amount of excavation in dune/beach     | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |
| d. Amount of fill in wetlands             | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |
| e. Amount of fill in submerged lands      | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |
| f. Amount of fill in dune/beach           | <u>N/A</u> cubic yards<br><u>N/A</u> square feet |

## Part 3 – Appendices (continued)

**Appendix D: Aquaculture Related Structures** such as cages and floats. Before completing this appendix, please review the aquaculture requirements summary at:  
[http://mrc.virginia.gov/Shellfish\\_Aquaculture.shtm](http://mrc.virginia.gov/Shellfish_Aquaculture.shtm).

1. Will the activity be for commercial purposes? N/A Yes N/A No.

If Yes and structures will be placed upon an oyster ground lease, you may qualify for the VMRC General Permit #4 for Temporary Protective Enclosures for Shellfish. For more info see:  
[http://www.mrc.virginia.gov/regulations/MRC\\_Scanned\\_Regs/Shellfish\\_Mix/fr1130\\_12-0107.pdf](http://www.mrc.virginia.gov/regulations/MRC_Scanned_Regs/Shellfish_Mix/fr1130_12-0107.pdf). If you qualify for the General Permit #4, or if such structures are proposed that are not on an oyster planting ground lease, or for floating structures of any kind, complete this Joint Permit Application and include the necessary information requested below in question 2 through 11.

If No, you may qualify for the VMRC General Permit #3, for Noncommercial Riparian Shellfish Growing (i.e. “Gardening”) For more information see:  
[http://www.mrc.virginia.gov/forms/VGP3\\_Aquaculture.doc.pdf](http://www.mrc.virginia.gov/forms/VGP3_Aquaculture.doc.pdf). If you qualify for this general permit use the Abbreviated Joint Permit Application For Noncommercial Riparian Shellfish Aquaculture Structures available at [https://mrc.virginia.gov/forms/2019/VGP3\\_Aquaculture\\_form\\_2019.pdf](https://mrc.virginia.gov/forms/2019/VGP3_Aquaculture_form_2019.pdf) *do not use this Joint Permit Application*.

2. Will aquaculture structures be attached to an existing pier or other structure? N/A Yes N/A No.

3. The plat file # if proposed upon oyster planting ground lease(s). N/A

4. The maximum area where enclosures are proposed. N/A square feet

5. The maximum number of enclosures being proposed to be deployed. N/A

6. The species of shellfish to be cultured. N/A

7. A detailed description of the enclosures to include width, length and height.  
N/A

8. In addition to the requirements itemized in Part 4 Project Drawings, the following additional information must be included on your project drawings: A general description of the area within 500 feet of deployment area. Provide a drawing that depicts existing marine resources such as SAV, shellfish beds, fixed fishing devices, public grounds, piers, water depths at mean low water, tide range, and the minimum clearance at mean low tide over the enclosures.

9. Provide the date enclosures are proposed to be deployed N/A. How will the structures be secured? N/A.

### **Part 3 – Appendices (continued)**

10. List of all riparian land owners within 500 feet of the area where enclosures are proposed along with a map (tax map or other suitable map) depicting the locations of such parcels or riparian property owner acknowledgement forms signed by the riparian land owner with any comments concerning the enclosures deployment request.

N/A

11. Proof that the applicant holds a current oyster or clam aquaculture product owners permit, and verification that the applicant is in compliance with Mandatory Harvest Reporting requirements, and verification that the current years oyster ground rent is paid, if structures are proposed on an oyster ground lease.

N/A

## Part 4 - Project Drawings

**Plan view and cross-sectional view drawings are required for all projects.** Application drawings do not need to be prepared by a professional draftsman, but they must be clear, accurate, and should be to an appropriate scale. If a scale is not used, all dimensions must be clearly depicted in the drawings. If available, a plat of the property should be included, with the existing and proposed structures clearly indicated. Distances from the proposed structure(s) to fixed points of reference (benchmarks) and to the adjacent property lines must be shown. A vicinity map (County road map, USGS Topographic map, etc.) must also be provided to show the location of the property. **NOTE:** The sample drawings have been included at the end of this section to provide guidance on the information required for different types of projects. Clear and accurate drawings are essential for project review and compliance determination. Incomplete or unclear drawings may cause delays in the processing of your application.

**The following items must be included on ALL project drawings: (plan and cross-sectional, as appropriate)**

- **name of project**
- **north arrow**
- **scale**
- **waterway name**
- **existing and proposed structures, labeled as such**
- **dimensions of proposed structures**
- **mean high water and mean low water lines**
- **all delineated wetlands and all surface waters on the site, including the Cowardin classification (i.e., emergent, scrub-shrub, or forested) for those surface waters (if applicable)**
- **limits of proposed impacts to surface waters, such as fill areas, riprap scour protection placement, and dredged areas, and the amount of such impacts in square feet and acres**
- **ebb/flood direction**
- **adjacent property lines and owner's name**
- **distances from proposed structures to fixed points of reference (benchmarks) and adjacent property lines**

## Part 5 - Chesapeake Bay Preservation Act Information

**All proposed development, redevelopment, land disturbance, clearing or grading related to this Tidewater JPA must comply with the Chesapeake Bay Preservation Area Designation and Management Regulations**, which are enforced through locally adopted Chesapeake Bay Preservation Area (CBPA) ordinances. Compliance with state and local CBPA requirements mandates the submission of a ***Water Quality Impact Assessment (WQIA)*** for the review and approval of the local government. Contact the appropriate local government office to determine if a WQIA is required for the proposed activity(ies).

**Because the 84 local governments within Tidewater Virginia are responsible for enforcing the CBPA Regulations, the completion of the JPA process does not constitute compliance with the Bay Act Regulations nor does it guarantee that the local government will approve encroachments into the RPA that may result from this project.** Applicants should contact their local government as early in the design process as possible to ensure that the final design and construction of the proposed project meets all applicable CBPA requirements. Early cooperation with local government staff can help applicants avoid unnecessary and costly delays to construction. Applicants should provide local government staff with information regarding existing vegetation within the Resource Protection Area (RPA) as well as a description and site drawings of any proposed land disturbance, construction, or vegetation clearing. As part of their review and approval processes, local government staff will evaluate the proposed project and determine whether or not approval can be granted. Once the locality has made a decision on the project, they will advise the Local Wetlands Boards and other appropriate parties of applicable CBPA concerns or issues.

**Resource Protection Areas (RPAs) are composed of the following features:**

- 1. Tidal wetlands;**
- 2. Nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow;**
- 3. Tidal shores;**
- 4. Other lands considered by the local government to meet the provisions of subsection A of 9VAC25-830-80 and to be necessary to protect the quality of state waters; and**
- 5. A buffer area not less than 100 feet in width located adjacent to and landward of the components listed in subdivisions 1 through 4 above, and along both sides of any water body with perennial flow.**

### **Notes for all projects in RPAs**

Development, redevelopment, construction, land disturbance, or placement of fill within the RPA features listed above requires the approval of the locality and may require an exception or variance from the local Bay Act ordinance. Please contact the appropriate local government to determine the types of development or land uses that are permitted within RPAs.

Pursuant to 9VAC25-830-110, on-site delineation of the RPA is required for all projects in CBPAs. Because USGS maps are not always indicative of actual “in-field” conditions, they may not be used to determine the site-specific boundaries of the RPA.

### **Notes for shoreline erosion control projects in RPAs**

Re-establishment of woody vegetation in the buffer will be required by the locality to mitigate for the removal or disturbance of buffer vegetation associated with your proposed project. Please contact the local government to determine the mitigation requirements for impacts to the 100-foot RPA buffer.



## **Part 5 - Chesapeake Bay Preservation Act Information (continued)**

Pursuant to 9VAC25-830-140 5 a (4) of the Virginia Administrative Code, shoreline erosion projects are a permitted modification to RPAs provided that the project is based on the “best technical advice” and complies with applicable permit conditions. In accordance with 9VAC25-830-140 1 of the Virginia Administrative Code, the locality will use the information provided in this Part V, in the project drawings, in this permit application, and as required by the locality, to make a determination that:

1. Any proposed shoreline erosion control measure is necessary and consistent with the nature of the erosion occurring on the site, and the measures have employed the “best available technical advice”
2. Indigenous vegetation will be preserved to the maximum extent practicable
3. Proposed land disturbance has been minimized
4. Appropriate mitigation plantings will provide the required water quality functions of the buffer (9VAC25-830-140 3)
5. The project is consistent with the locality’s comprehensive plan
6. Access to the project will be provided with the minimum disturbance necessary.



# NAO Pier Rehabilitation

## TIDEWATER JOINT PERMIT APPLICATION SUPPLEMENT

### *Part I Section Four Response Continued:*

The main floating dock and two (2) floating dock fingers (three slips) will be accessed by a small 8 ft x 16 ft platform and a 6 ft x 60 ft aluminum gangway. The main floating dock is 30 ft wide and 60 ft long. The two finger floating docks are 20 ft wide and 80 ft and 240 ft long, respectively. The main floating dock and finger floating docks will be made of concrete. Twenty-two (22) new 30-inch-diameter hollow steel pipe piles will be installed to anchor the floating docks. Four (4) new 30-inch-diameter hollow steel pipe monopiles with donut fenders attached will be installed on the waterward side of two of the slips to protect the vessels and aid in mooring. The platform will be supported by four (4) 18-inch-diameter partially concrete filled steel pipe piles.

A steel breakwater wave screen will be installed to the west and perpendicular of the pier to protect the dock system from wave action. The wave screen will consist of two legs, joined at approximately a 120-degree angle. The shorter of the two legs will be 90 ft long and the longer of the two will be 220 ft long. Twenty-one (21) 30-inch-diameter steel pipe piles will support the screen. The wave screen will have a 3 ft-high opening at the bottom.

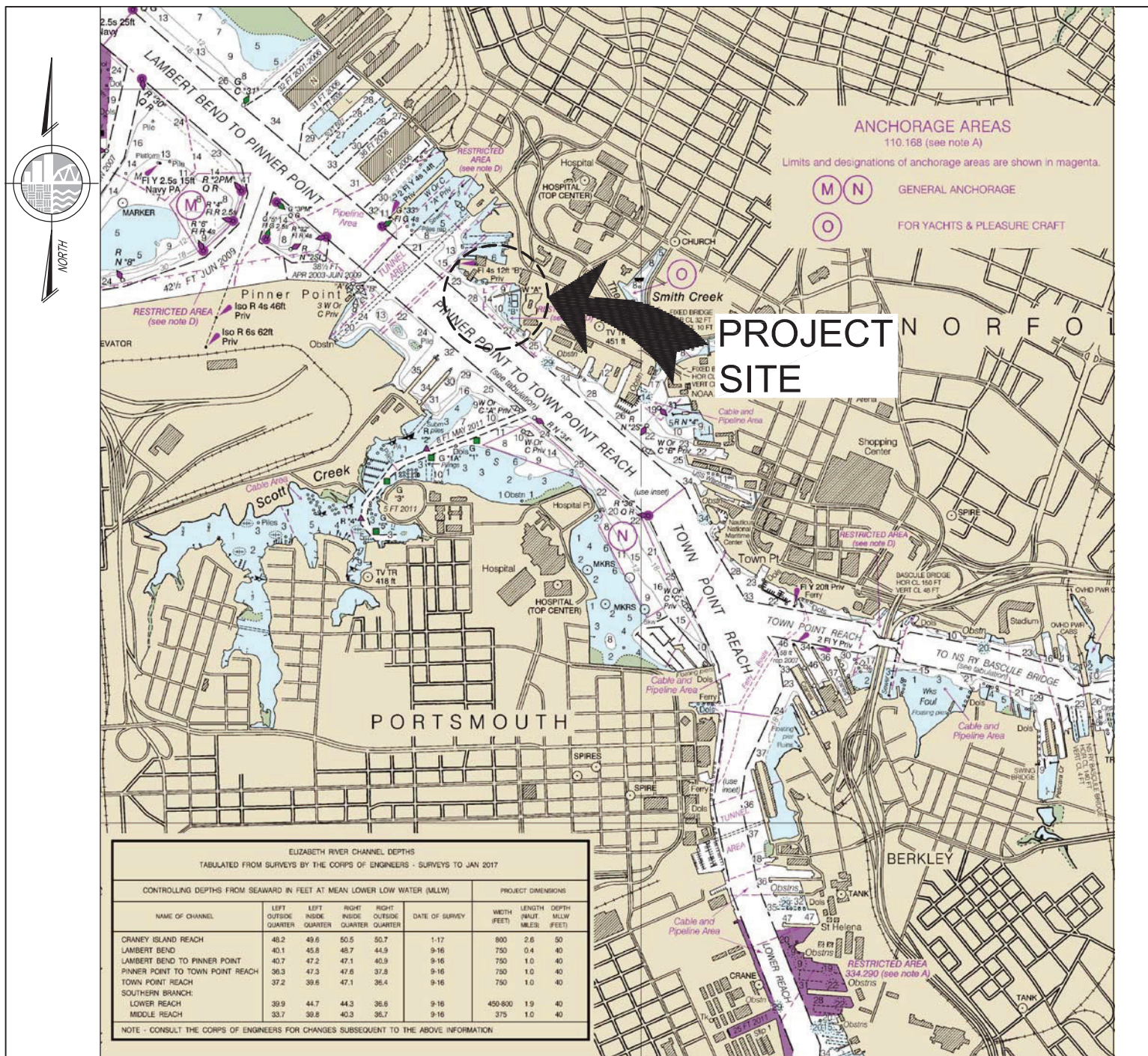
All 64 piles, including steel and timber, will be advanced using a vibratory hammer and a soft start. Eight (8) of the steel piles will be driven with an impact hammer for the final approximately 10 feet of depth to confirm the axial capacities have been reached.

A new timber wave fence will be installed on the existing timber fender. 335 LF of timber wave fence will be installed along the south side of the existing pier. The wave fence will have a 3 ft-high opening at the bottom. Off the southwest corner of the pier, the wave screen will be extended another 45 LF using three (3) 30-inch-diameter steel pipe piles to support the screen. There will be two steel monopiles with floating donut fenders, one at the west end of the 45 LF of new wave screen and the other at the south end of the short 90 LF segment of the larger wave screen. These monopiles will be separate by approximately 53 ft-4 in to create the opening of the basin.

The existing pier deck will be raised by the addition of new steel beams to protect the deck from flooding. The new deck elevation will be approximately 2 ft higher than the current elevation. A new ramp will be installed to access the raised deck. Pier raising will be done by building a secondary deck atop the existing pier. Wide flange steel beams will be used to increase the height and a fiberglass grating will be used for the new deck surface. New concrete edge beams will be poured atop the perimeter of the pier and will include scuppers to handle drainage. All concrete pouring will take place above the water on the existing structure.

Additionally, on the south side of the pier, a new boat lift for a Boston whaler vessel is proposed. The lift will be supported by four (4) 12-inch-diameter timber piles.





## SITE LOCATION MAP

N.T.S.

DATUM: NAVD88

ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

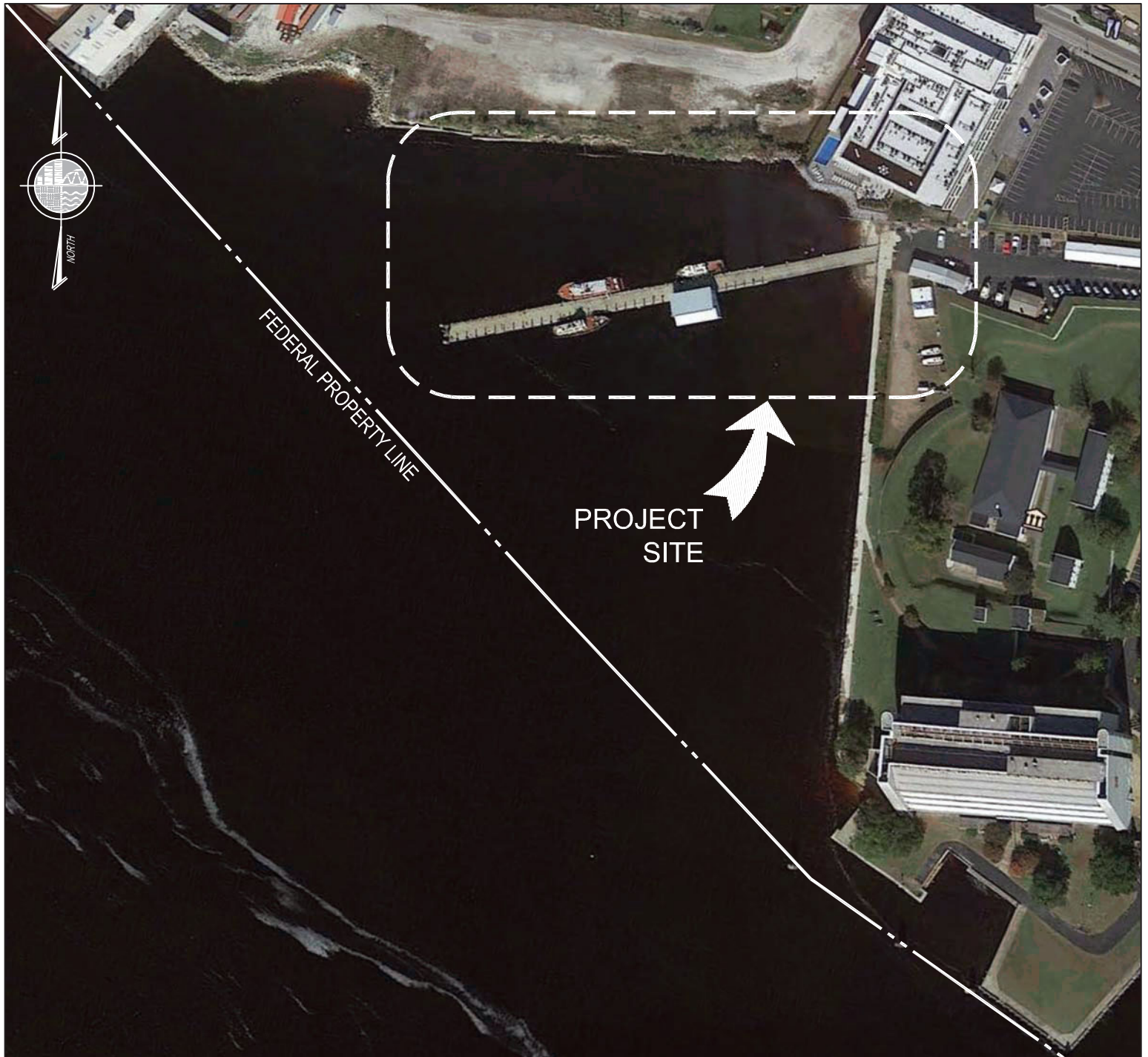
## SITE LOCATION MAP

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA

SHT 1 OF 16

11/20/21





## SITE VICINITY MAP

N.T.S.

DATUM: NAVD88

ADJACENT OWNERS:

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### NAO PIER - SMALL CRAFT HARBOR

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Norfolk, VA 23510

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530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

### SITE VICINITY MAP

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA

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11/20/21

## TIDAL DATA

BASED ON DATA PUBLISHED BY NOAA. PUBLICATION DATE  
10/20/17.  
FOR TIDAL EPOCH 1983 - 2001.

	NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)	MEAN-LOW-WATER DATUM
100 YR. FLOOD LEVEL 3 HURRICANE	10.00	11.66
HIGHEST OBSERVED (HOWL)	4.62	6.28
PLATFORM DECK (TYP.)	4.24	5.90
SPRING HIGH TIDE (SHT)	1.37	3.03
MEAN HIGH HIGH WATER (MHHW)	1.24	2.90
MEAN HIGH WATER (MHW)	0.99	2.65
NGVD OF 1929 (NGVD 29)	0.00	1.66
MEAN LOW WATER (MLW)	-1.66	0.00
MEAN LOW LOW WATER (MLLW)	-1.79	-0.13
LOWEST OBSERVED (LOWL)	-3.28	-1.62

### NOTES:

1. DATUMS FOR ELIZABETH RIVER (NORFOLK HARBOR) VA.
2. ALL ELEVATIONS ARE IN FEET.

## TIDAL DATUM

N.T.S.

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF  
THE JOINT PERMIT  
APPLICATION FOR THE LIST  
OF ADJACENT PROPERTY  
OWNERS.

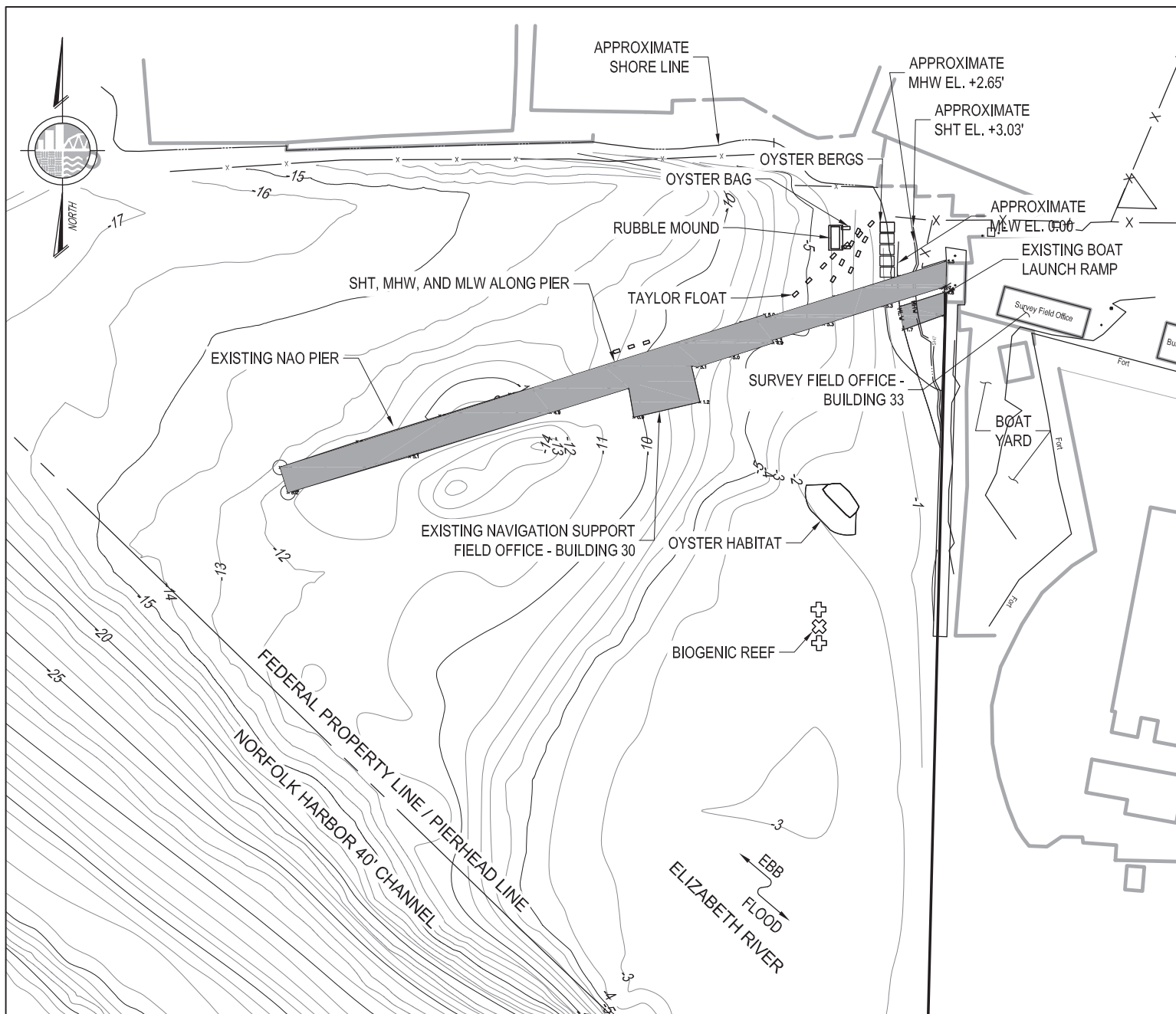
### NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510  
AGENT: M.G. McLaren Engineering  
and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

### TIDAL DATUM

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA

SHT 3 OF 16 11/20/21



DATUM: NAVD88

ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

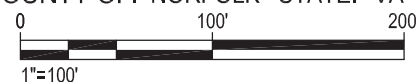
## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
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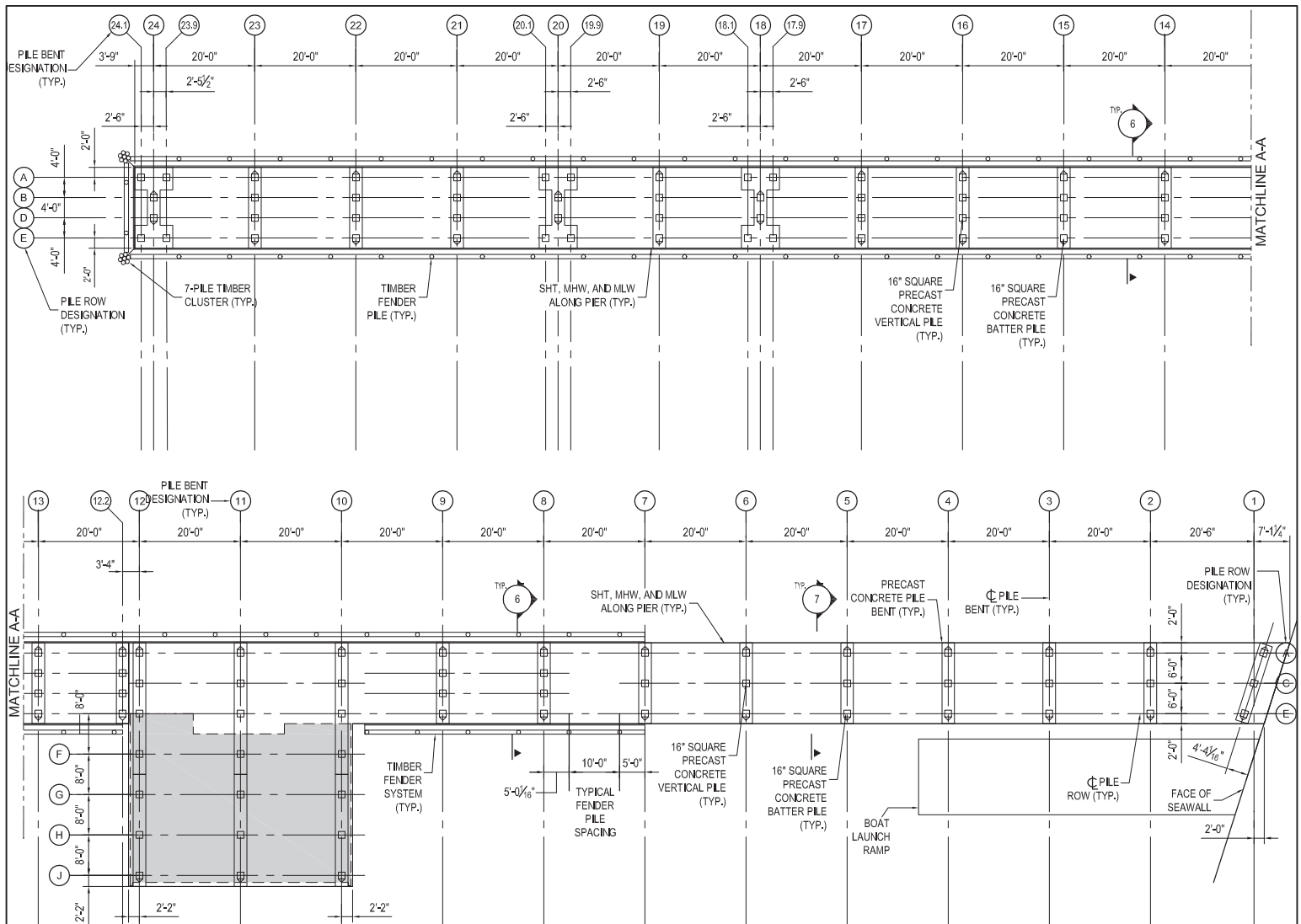
## EXISTING SITE PLAN

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



SHT 4 OF 16

11/20/21



## 5 EXISTING PIER PILE PLAN

1/32"=1'-0"

DATUM: NAVD88

ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

### NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
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530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

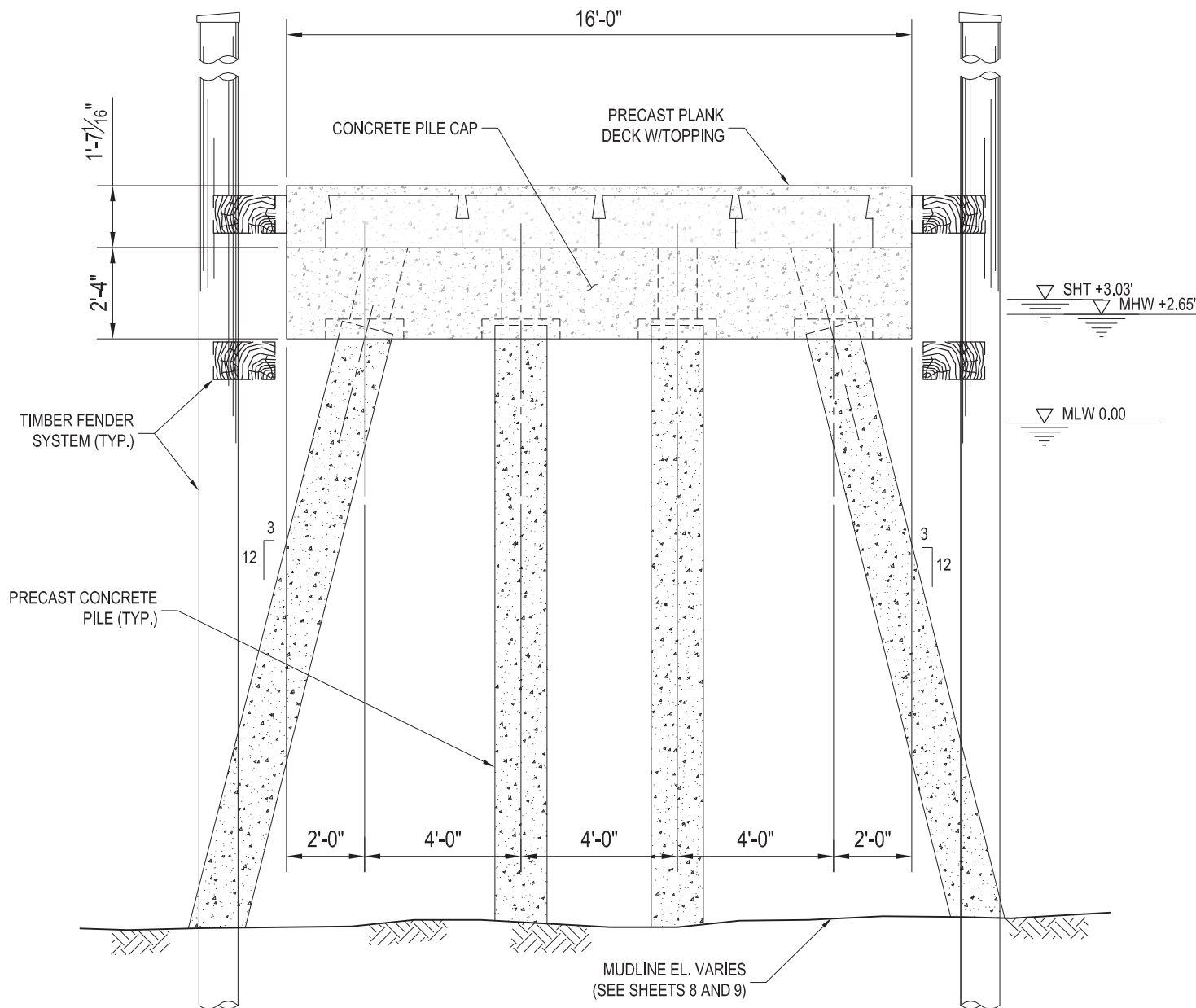
### EXISTING PIER PILE PLAN

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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## EXISTING TYPICAL BENT CONFIGURATION

### NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble

United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT:

M.G. McLaren Engineering  
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530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

## EXISTING SECTIONS

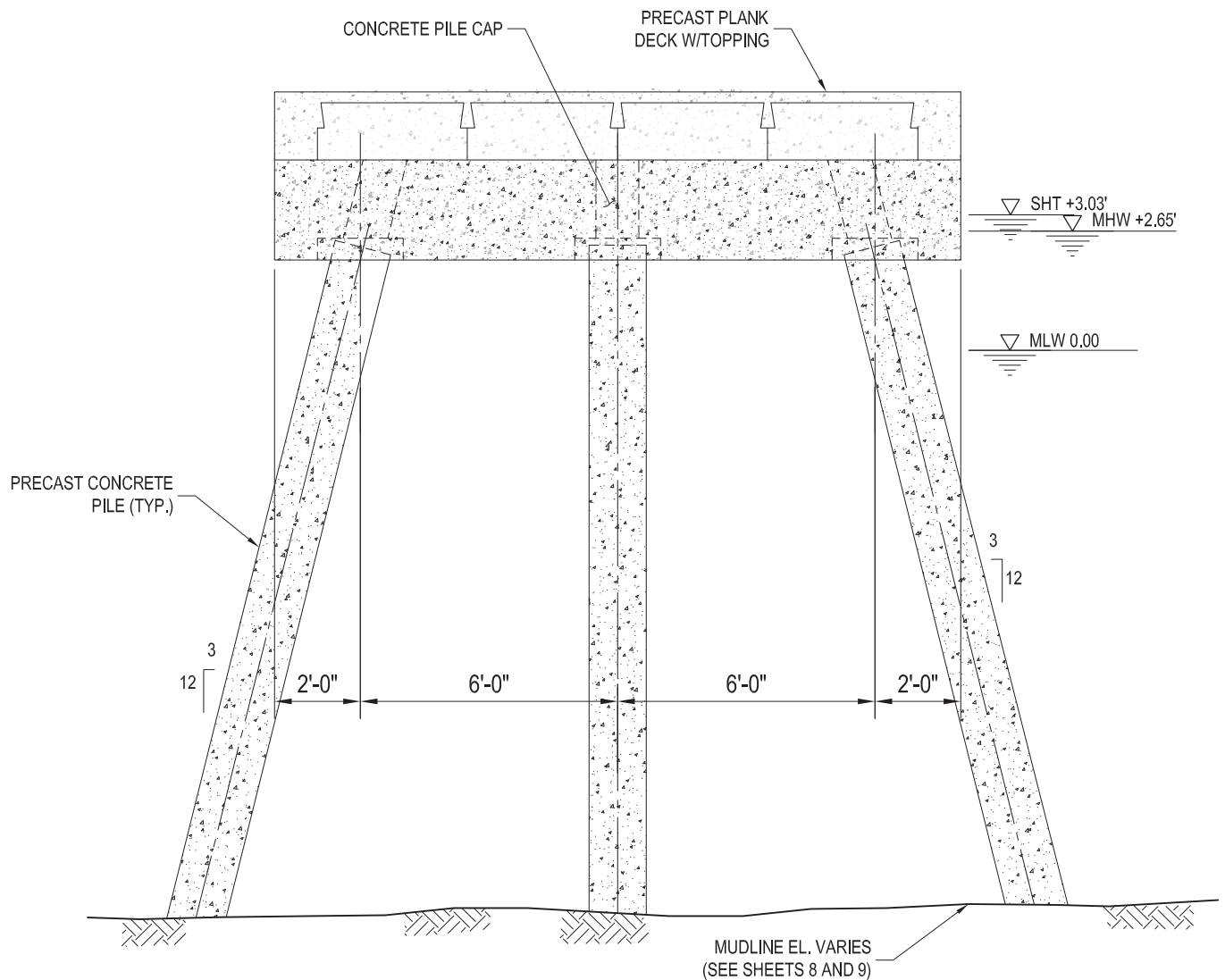
IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21





7

## EXISTING PIER RAMP BENT CONFIGURATION

1/4"=1'-0"

### NOTES:

1. TYPICAL BENT CONFIGURATION FOR BENTS 1-7.
2. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble

United States Army Corps Of Engineers  
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Norfolk, VA 23510

AGENT:

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Woodcliff Lake, NJ 07677

## EXISTING SECTIONS

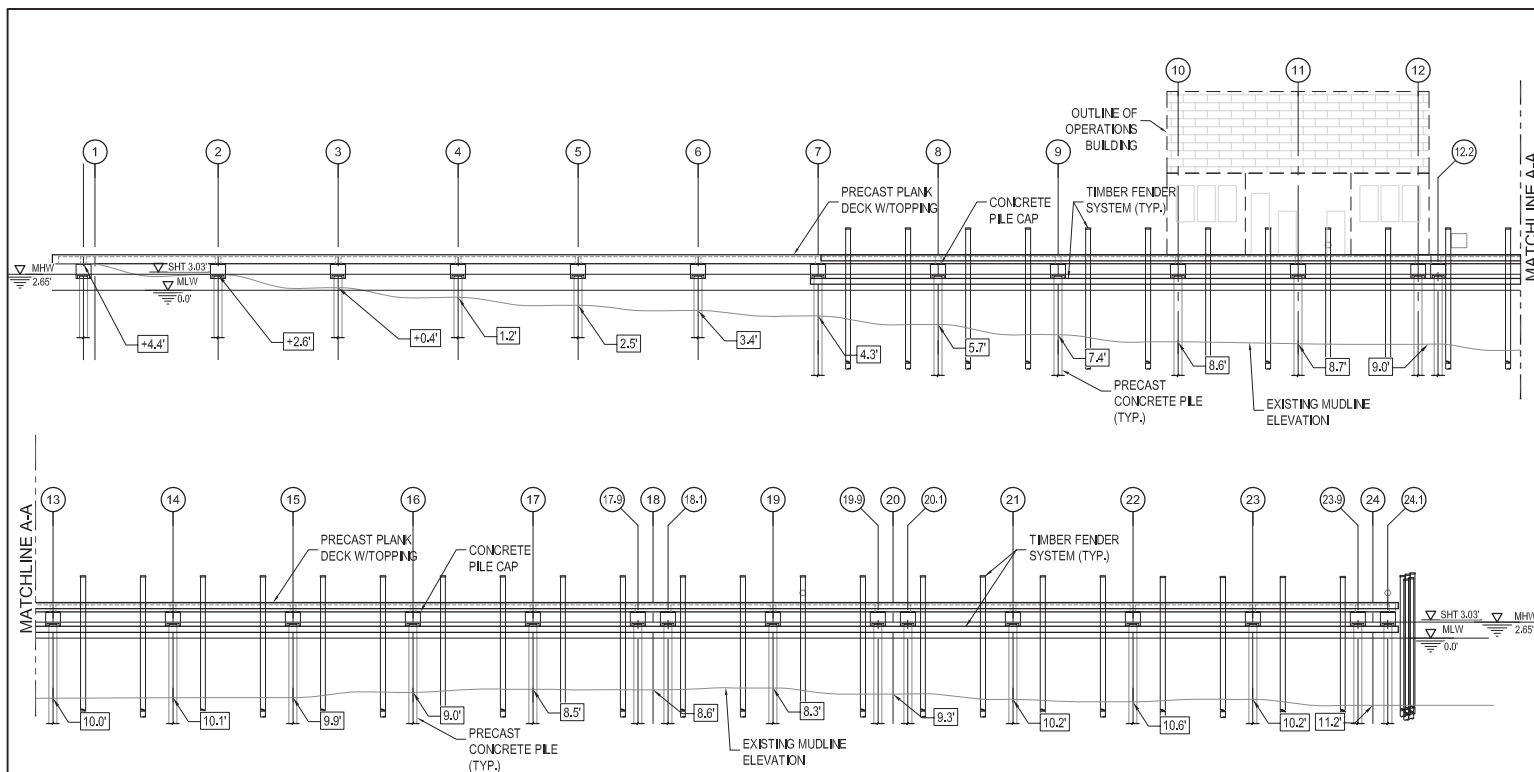
IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21





# **PIER ELEVATION (LOOKING SOUTH)**

## **8 EXISTING ELEVATIONS** 1/32"=1'-0"

NOTE:  
1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

- LEGEND:
- X.X' MUDLINE ELEVATION BELOW MEAN-LOW-WATER
  - ① PILE BENT IDENTIFICATION

DATUM: NAVD88

ADJACENT OWNERS:  
1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

**NAO PIER - SMALL CRAFT HARBOR**

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

EXISTING ELEVATIONS

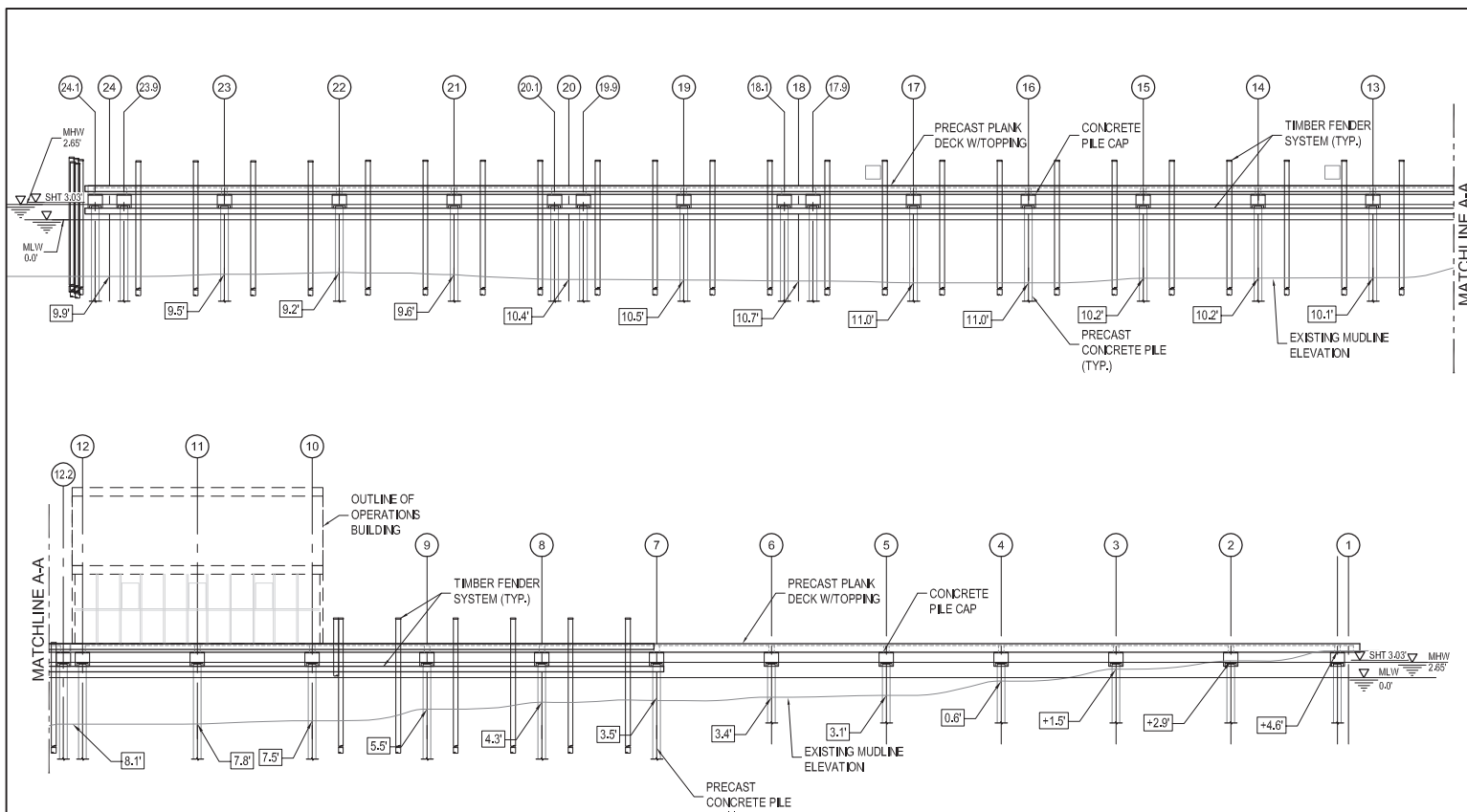
IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA

032'64'

1/32"=1'-0"

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## PIER ELEVATION (LOOKING NORTH)

9

## EXISTING ELEVATIONS

1/32"=1'-0"

### NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

### LEGEND:

(X.X)

MUDLINE ELEVATION BELOW  
MEAN-LOW-WATER

(1)

PILE BENT IDENTIFICATION

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF  
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OF ADJACENT PROPERTY  
OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

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Norfolk, VA 23510  
AGENT: M.G. McLaren Engineering  
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530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

## EXISTING ELEVATIONS

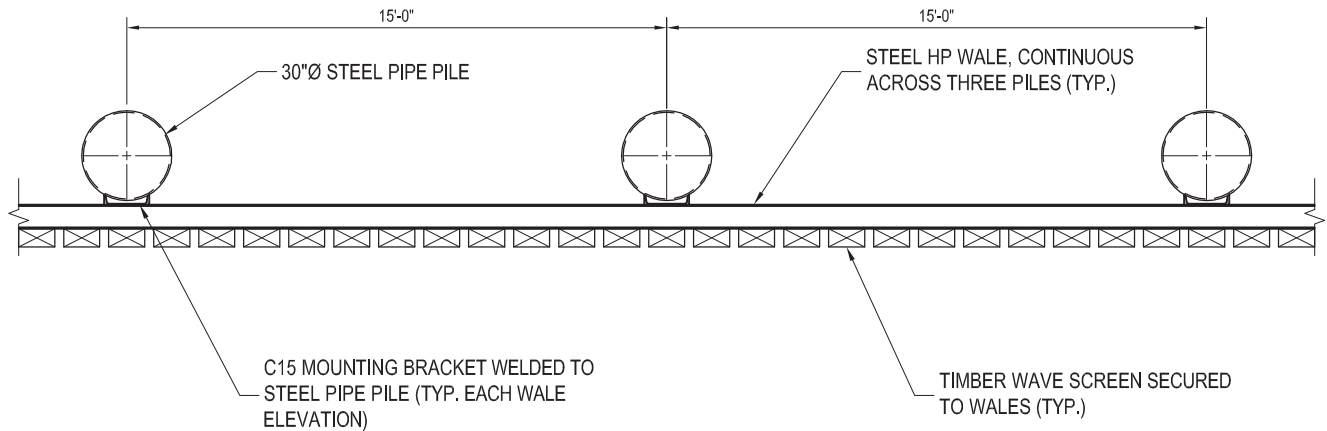
IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21





## 11 STEEL BREAKWATER PART PLAN

3/16"=1'-0"

DATUM: NAVD88

ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

### NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

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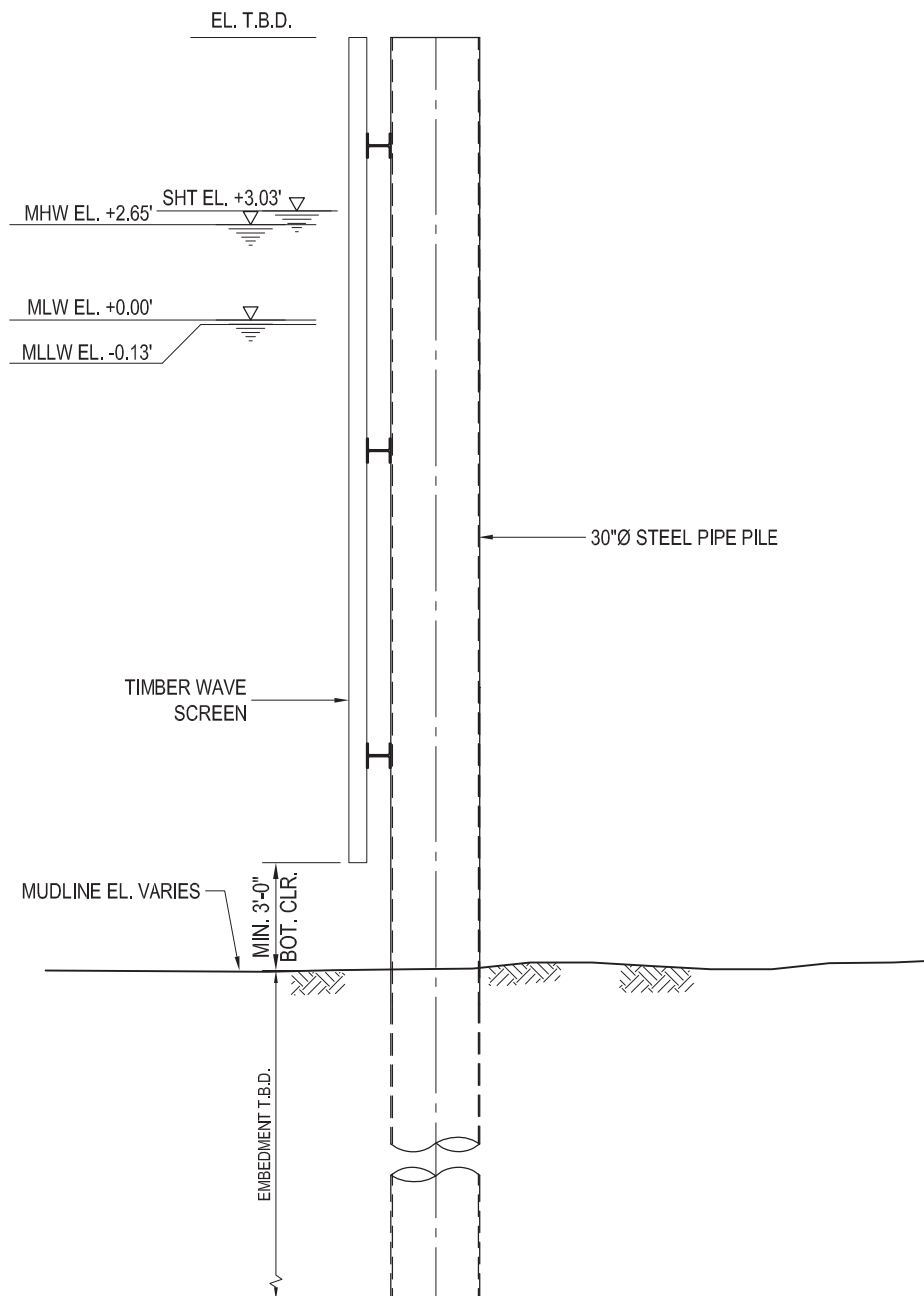
### WAVE SCREEN PART PLAN

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21



12

## STEEL BREAKWATER SECTION

3/16"=1'-0"

### NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

DATUM: NAVD88

ADJACENT OWNERS:

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## NAO PIER - SMALL CRAFT HARBOR

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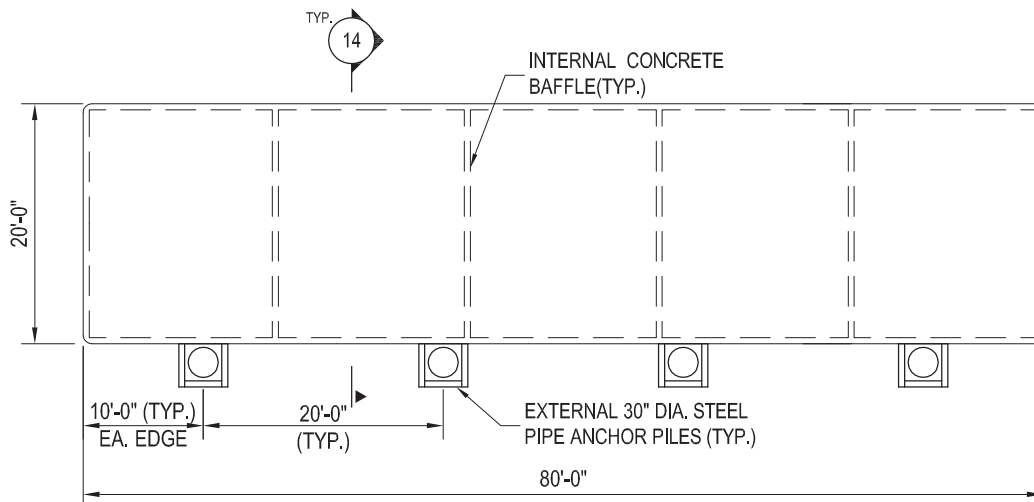
## WAVE SCREEN SECTION

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA

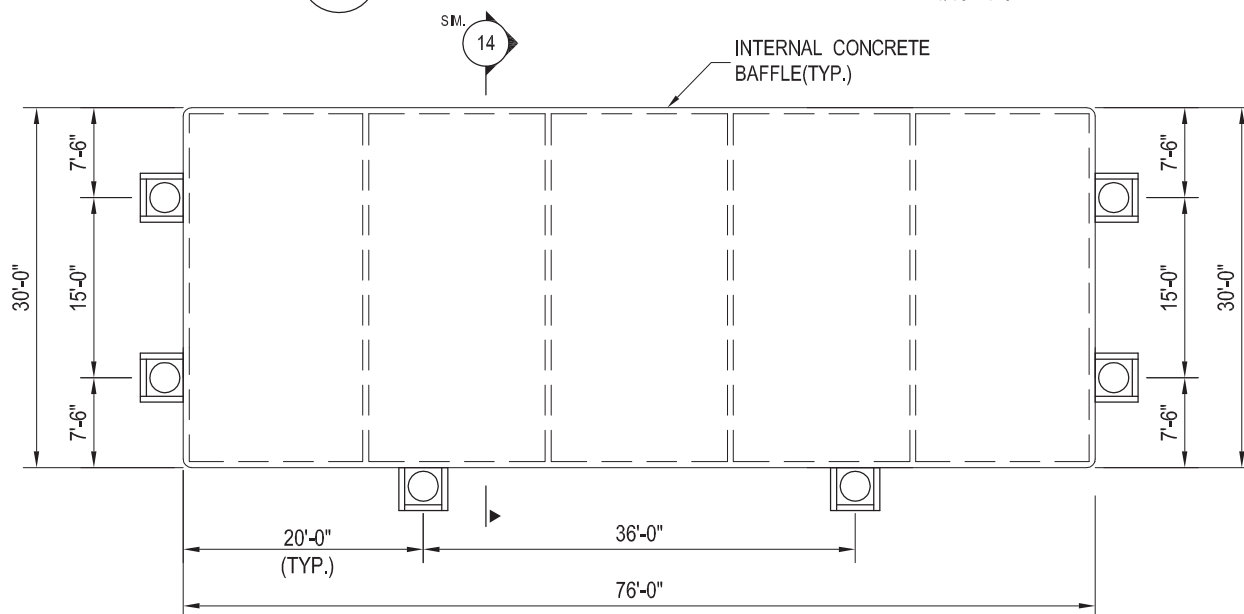


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11/20/21



**13A TYPE 1 FLOATING DOCK PLAN**  
1/16"=1'-0"



**13B TYPE 2 FLOATING DOCK PLAN**  
1/16"=1'-0"

**NOTE:**

1. FLOAT BAFFLE LAYOUT AND GEOMETRY ARE APPROXIMATE. FINAL DESIGN TO BE PERFORMED BY MANUFACTURER AND SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.

DATUM: NAVD88

**ADJACENT OWNERS:**

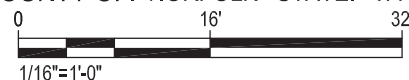
1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

**NAO PIER - SMALL CRAFT HARBOR**

APPLICANT: Lesley Dobbins-Noble  
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530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

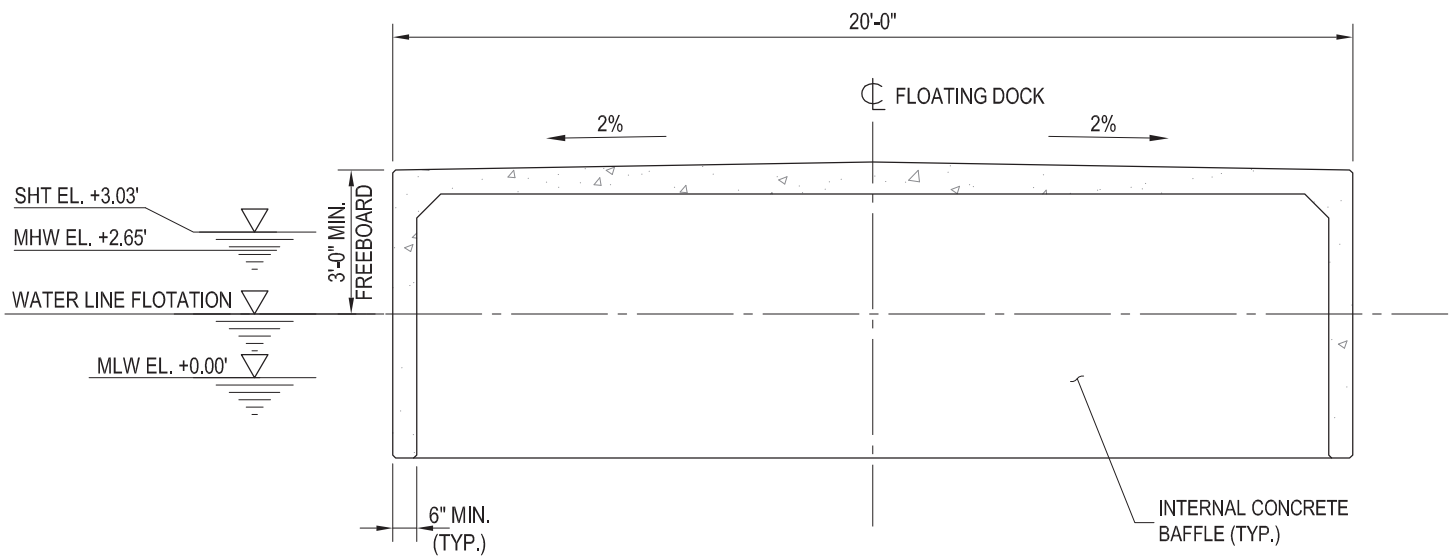
**FLOATING DOCK  
PLAN**

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



SHT 13 OF 16

11/20/21



14

## FLOATING DOCK TYPICAL SECTION

1/4"=1'-0"

### NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

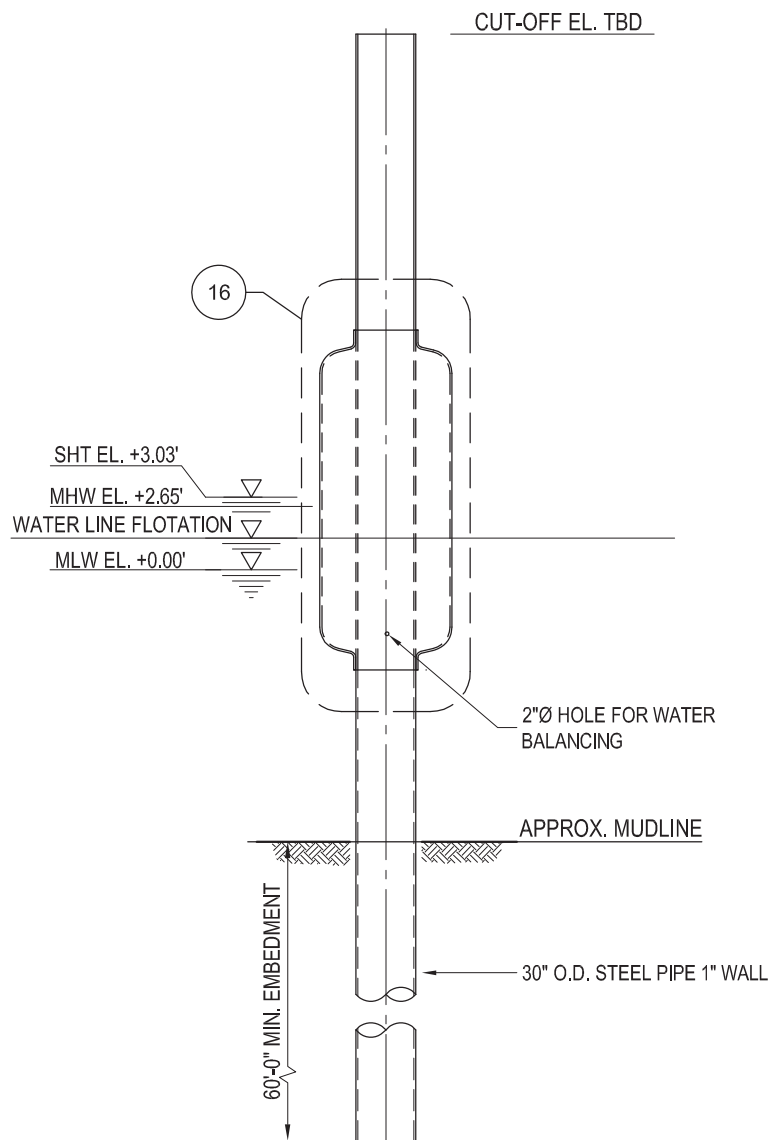
## FLOATING DOCK SECTION

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21



## 15 MONOPILE ELEVATION

1/8"=1'-0"

### NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

DATUM: NAVD88

### ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

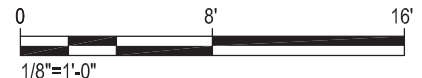
## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

## MONOPILE & FLOATING DONUT FENDER

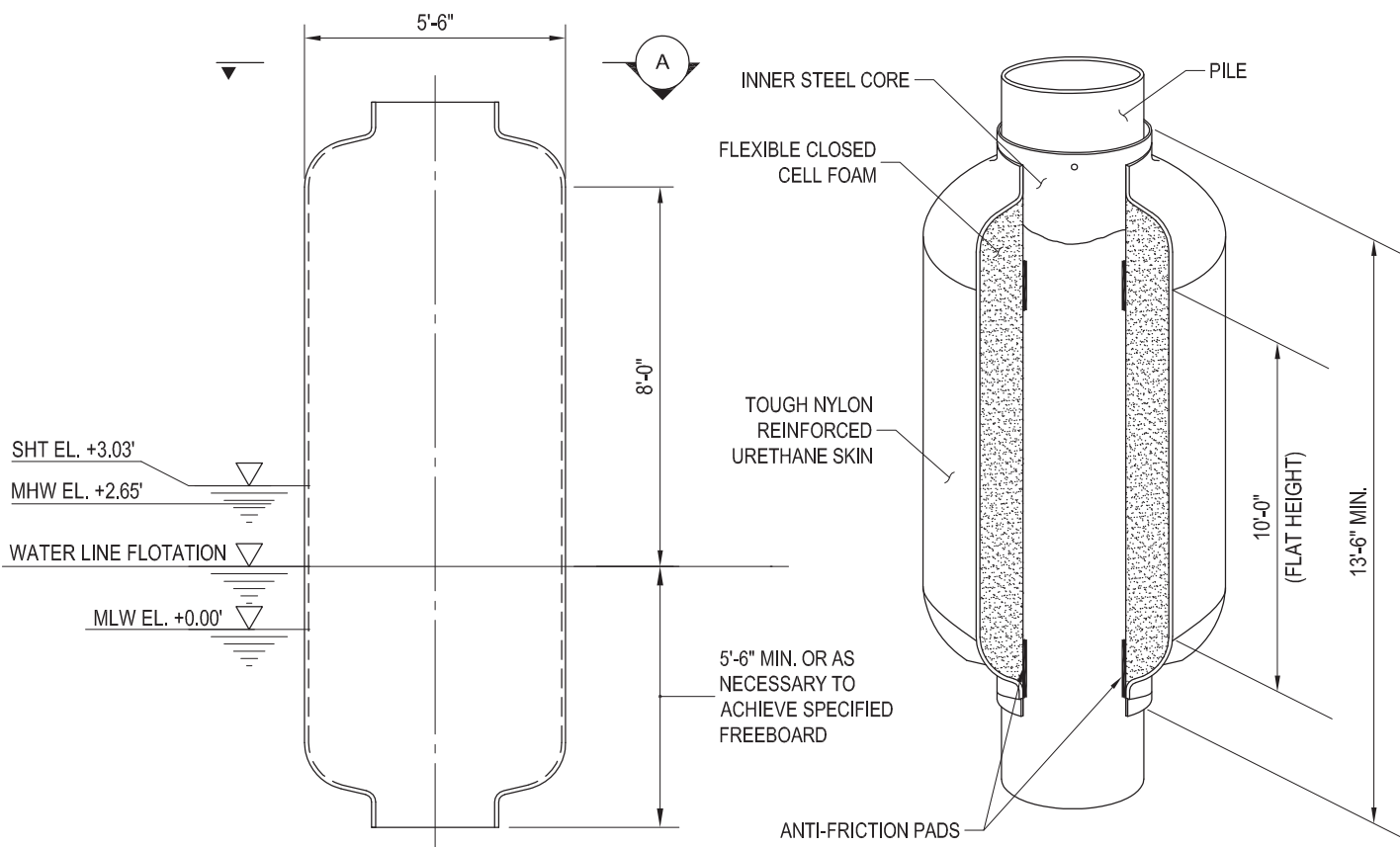
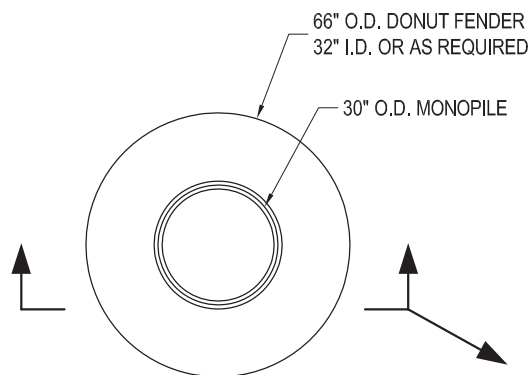
IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



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11/20/21





16

## DONUT FENDER

1/4"=1'-0"

NOTE:

1. REFERENCE DATUM IS TO MEAN LOW WATER (MLW).

A

## SECTION

N.T.S.

DATUM: NAVD88

ADJACENT OWNERS:

1. REFER TO SECTION 14 OF THE JOINT PERMIT APPLICATION FOR THE LIST OF ADJACENT PROPERTY OWNERS.

## NAO PIER - SMALL CRAFT HARBOR

APPLICANT: Lesley Dobbins-Noble  
United States Army Corps Of Engineers  
Norfolk District 803 Front St.  
Norfolk, VA 23510

AGENT: M.G. McLaren Engineering  
and Land Surveying, P.C.  
530 Chestnut Ridge Rd.  
Woodcliff Lake, NJ 07677

## FLOATING DONUT FENDER SECTIONS

IN: ELIZABETH RIVER  
AT: NORFOLK (NORFOLK HARBOR)  
COUNTY OF: NORFOLK STATE: VA



SHT 16 OF 16

11/20/21



# COMMONWEALTH of VIRGINIA

## *Marine Resources Commission*

*380 Fenwick Road  
Building 96  
Fort Monroe, VA 23651*

Justin D. Worrell  
Acting Commissioner

April 25, 2022

U.S. Army Corps of Engineers  
Attn: Ms. Lesley Dobbins-Noble  
c/o McLaren Technical Services  
Attn: Mr. Brian C. Moody  
530 Chestnut Ridge Road  
Woodcliff Lake, NJ 07677  
[permits@mgmclaren.com](mailto:permits@mgmclaren.com)

Re: VMRC #22-0047

Dear Ms. Dobbins-Noble:

You have requested authorization to add a floating mooring system with two (2) finger piers and three (3) slips and raise the elevation of the existing open-pile pier. Additionally, you request to install 310 linear feet of steel breakwater wave screen and a 335 linear foot timber wave fence adjacent to the pier, with a 45 linear foot channelward extension terminating at a steel monopole with donut fender at federal property (803 Front Street) adjacent to the Elizabeth River in the City of Norfolk.

Please be advised that no permit shall be required from this agency for your proposal, since acts by a federal agency *not* constituting a permanent fill over State-owned submerged lands and for the purposes of commerce, navigation, national defense, and international affairs do not fall within the jurisdiction of the Marine Resources Commission. Should you have any questions regarding this matter, please contact me at (757) 247-8027 or [ben.nettleton@mrc.virginia.gov](mailto:ben.nettleton@mrc.virginia.gov).

Sincerely,

A handwritten signature in cursive script that reads "Ben Nettleton".

Ben Nettleton  
Environmental Engineer

BN/tsb

HM

cc: Department of Environmental Quality #6  
Norfolk Wetlands Board  
Applicant

*An Agency of the Natural and Historic Resources Secretariat*

[www.mrc.virginia.gov](http://www.mrc.virginia.gov)

Telephone (757) 247-2200 (757) 247-2292 V/TDD Information and Emergency Hotline 1-800-541-4646 V/TDD