

Work Proposed:

Replace a 460 LF bulkhead. (Fill with 150 CYDS)

Dredging work was previously performed under 14-GL-0885 and 97-WL-0150

Dredge $\pm 14,284$ SF of area to a depth of -7.0'. Total cubic yards of spoils is ± 774 .

Dredge $\pm 10,390$ SF of area to a depth of -8.0'. Total cubic yards of spoils is ± 655 .

Dredge $\pm 125,645$ SF of area to a depth of -9.0' total cubic yards of spoils is $\pm 9,79$

← ✓ both
but not to
this extent.

Dock G:

Remove 26 mooring piles. Construct a 8' x 40' pier extension which includes a 8' x 216' T-head, (2) - 6' x 50' end finger, (1) - 6' x 70' end finger, (5) - 3' x 50' finger piers, and (3) - 3' x 70' end finger. Install 16 mooring piles and replace 10 existing mooring piles.

Dock H:

Remove 41 mooring piles. Construct (4) - 3' x 35' finger piers (3) - 3' x 30' finger piers (2) - 3' x 45' finger piers, and (3) - 3' x 50' finger piers. Install 8 boat lift piles, 8 boat lifts, and 18 mooring piles.

Dock I:

Remove 23 mooring piles. Construct (7) - 3' x 27' finger piers, & 16 boat lift piles with 15 boat lifts.

Dock G – Fixed Pier Extension:

Work Proposed	Overall Length (Ft.)	Average Width (Ft.)	Permanent Impact (Sqft.)	Maximum Distance Channelward from MHWL (Ft.)
Pier Extension	40'	8'	320	274'
T-Head	216'	8'	1,728	282'
End Finger Pier – (2)	50'	6'	600	330' / 273'
End Finger Pier – (1)	70'	6'	420	351'
Finger Pier – (5)	50'	3'	750	233'
Finger Pier – (3)	70'	3'	630	351'
Mooring Piles – (16)	N/A	N/A	N/A	351'

Dock H – Fixed Pier:

Work Proposed	Overall Length (Ft.)	Average Width (Ft.)	Permanent Impact (Sqft.)	Maximum Distance Channelward from MHWL (Ft.)
Finger Pier – (4)	35'	3'	420	106'
Finger Pier – (3)	30'	3'	270	
Finger Pier – (2)	45'	3'	270	157'
Finger Pier – (3)	50'	3'	450	162'
Boatlifts – (8)	12'	13'	N/A	92'
Mooring Piles – (18)	N/A	N/A	N/A	162'

Dock I:

Work Proposed	Overall Length (Ft.)	Average Width (Ft.)	Permanent Impact (Sqft.)	Maximum Distance Channelward from MHWL (Ft.)
Finger Pier – (7)	27'	3'	567	27'
Boatlifts – (16)	12'	12'	N/A	27'

Dredging: (Would like to include maintenance dredging in the permit)

Work Proposed All Work is Maintenance	Overall Length (Ft.)	Average Width (Ft.)	Volume of Fill Material (cu. yards)	Permanent Impact (Sqft.)	Maximum Distance Channelward from MHWL (Ft.)
Mechanical Dredging	406	307	9,795	125,645	432
Mechanical Dredging	141	82	655	10,390	140
Mechanical Dredging	105	82	774	14,284	136

QUAD MAP 1"=200'



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

QUAD MAP SHEET

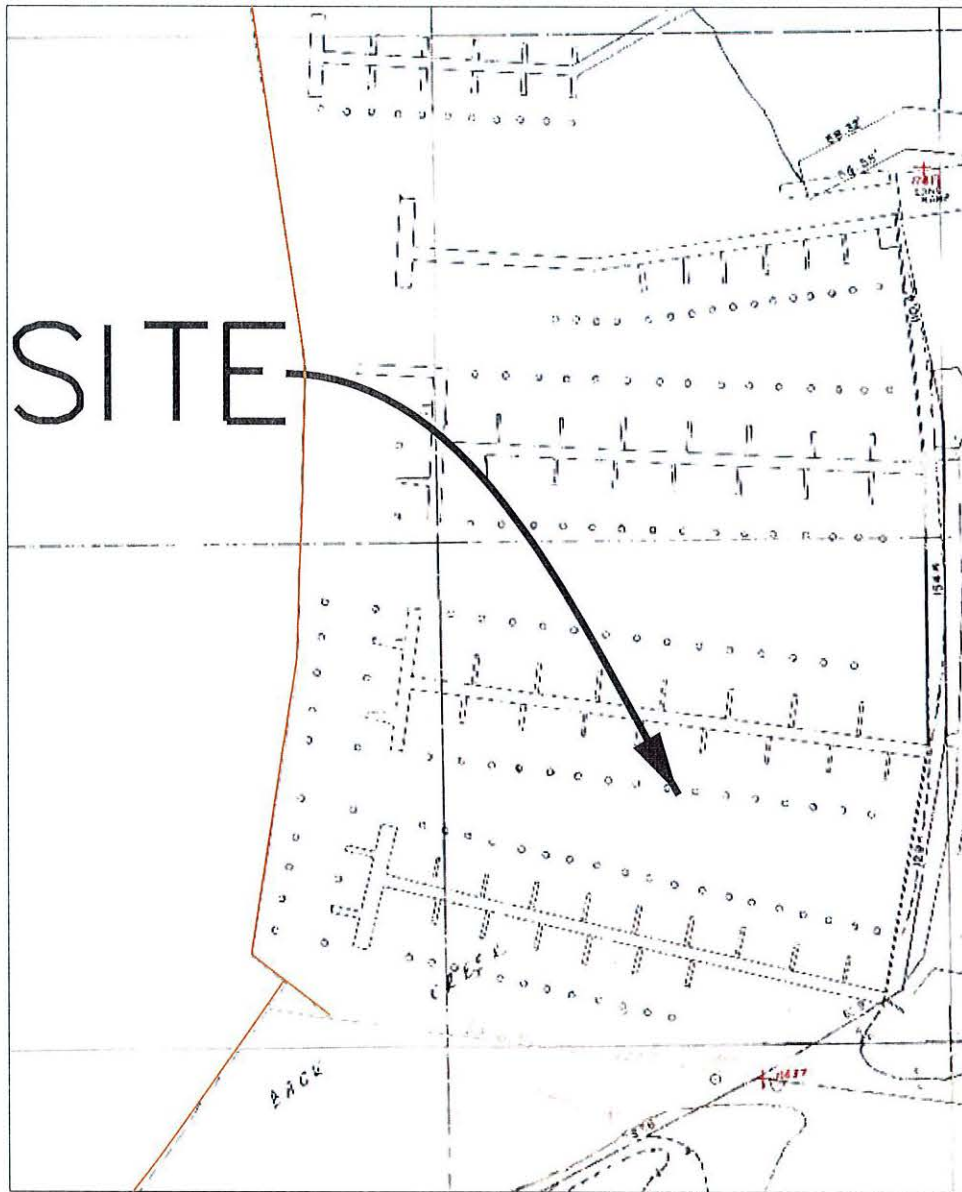
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Shoreline Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 1 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

HARBOR LINE MAP 1" = 200'



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

HARBOR LINE MAP SHEET

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 2 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

VICINITY MAP 1" = 2000'



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

VICINITY MAP

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 3 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC



EXISTING SITE PLAN 1
SCALE: 1"=100'
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

LON: -76.47916°
LAT: 38.96398°

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 4 of 23 Date: March 24, 2023
State: Maryland
at: Bembe Beach

NOTE: All dimensions and measurements shall be field verified by contractor.



NOTE: All dimensions and measurements shall be field verified by contractor.



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC



OVERLAY SITE PLAN 1
SCALE: 1" = 100'

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 6 of 23 Date: March 24, 2023

LON: -76.47916°
LAT: 38.96398°

State: Maryland
at: Bembe Beach

NOTE: All dimensions and measurements shall be field verified by contractor.



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC



OVERLAY SITE PLAN 2
SCALE: 1" = 100'

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

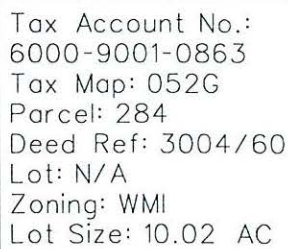
PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 7 of 23 Date: March 24, 2023

LON: -76.47916°
LAT: 38.96398°

State: Maryland
at: Bembe Beach

NOTE: All dimensions and measurements shall be field verified by contractor.



Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

in: Back Creek State: Mar
co: Anne Arundel at: Bembe
Application by: Port Annapolis Associates
Sheet 8 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

State: Maryland
at: Bembe Beach

Application by: Port Annapolis Associates
Sheet 8 of 23 Date: March 24, 2023

NOTE: All dimensions and measurements shall be field verified by contractor.

DOCK 1:
CONSTRUCT
(7) - 3'x27' FINGER PIERS.
INSTALL 16 BOAT LIFT PILES.
AND 15 BOAT LIFTS

DREDGE +14.284 SF
OF AREA
TO A DEPTH OF
-7.0'. TOTAL
CUBIC YARDS OF
SPOILS IS +774
PREVIOUSLY DREDGED
UNDER 14-GL-0885

HARBOR LINE

HARBOR LINE

HARBOR LINE

REPLACE A 460 LF
BULKHEAD

EXISTING DOCK E

EXISTING DOCK D

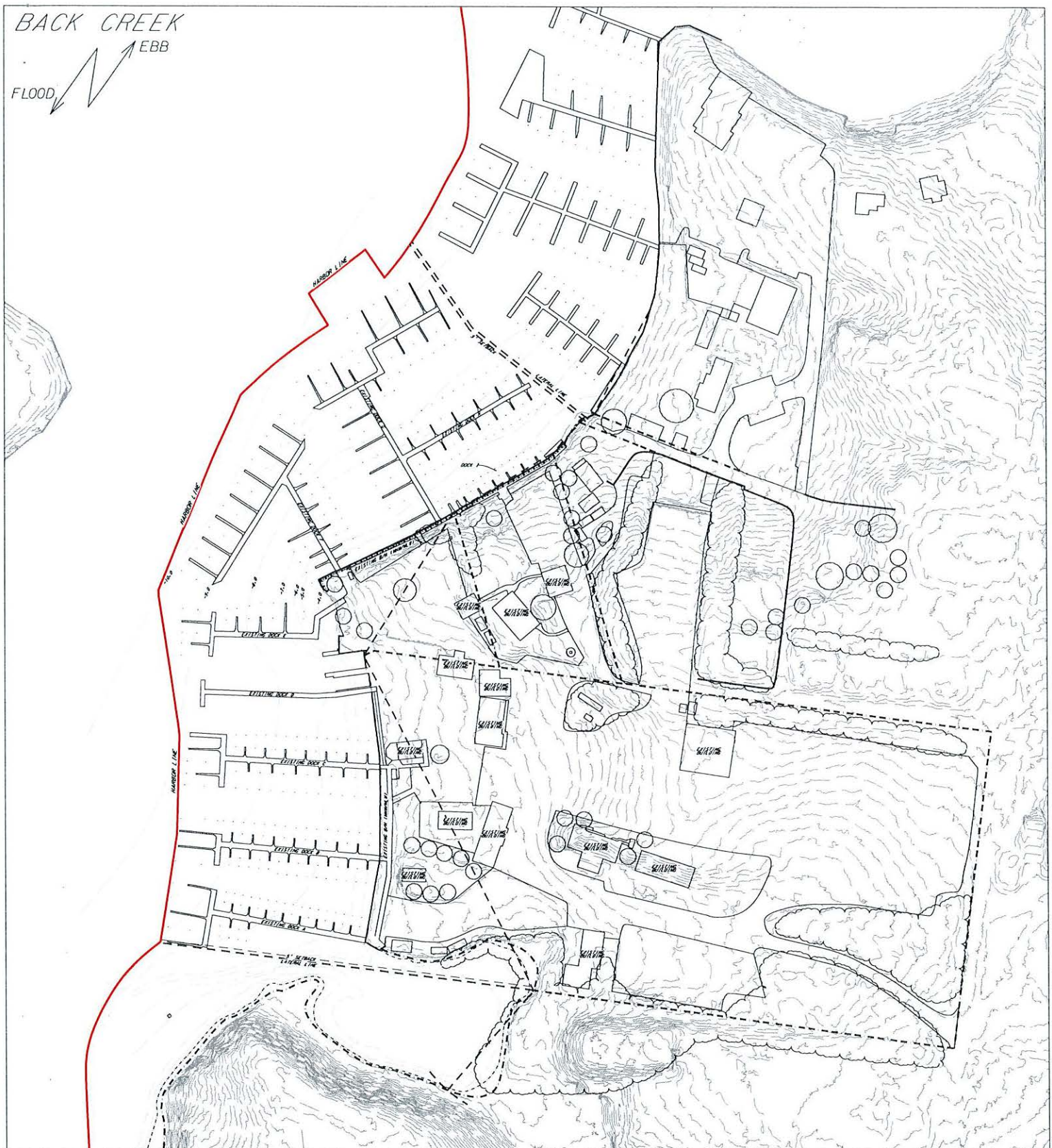
EXISTING DOCK

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

in: Back Creek State: Mar
co: Anne Arundel at: Bembe E
Application by: Port Annapolis Associates
Sheet 9 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

NOTE: All dimensions and measurements shall be field verified by contractor.



Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC



LATERAL LINE PLAN SCALE: 1" = 200'

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

LON: -76.47916°
LAT: 38.96398°

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 10 of 23 Date: March 24, 2023

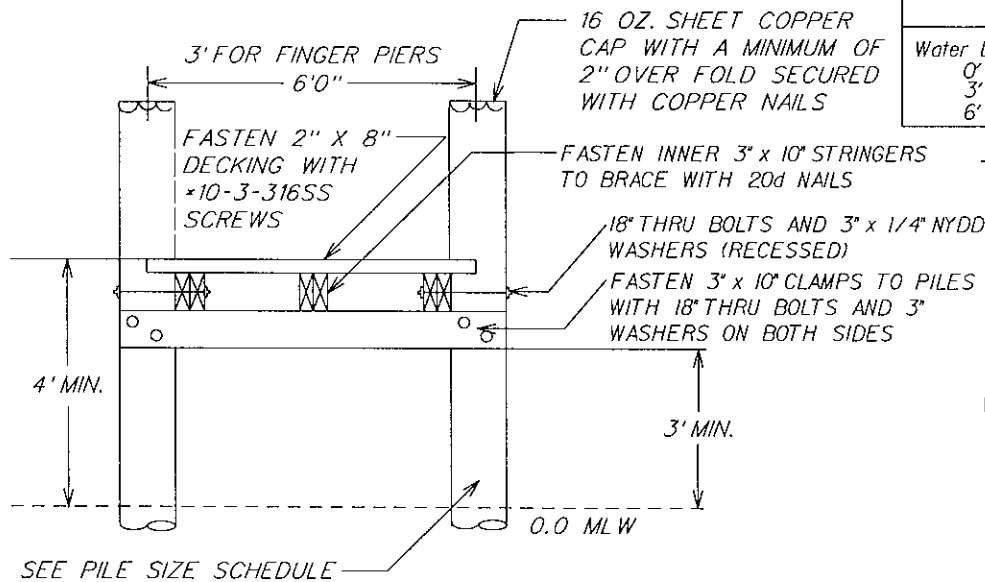
State: Maryland
at: Bembe Beach

NOTE: All dimensions and measurements shall be field verified by contractor.

NOTE: ALL PILES MUST BE DRIVEN OR VIBRATED IN WHERE POSSIBLE.

PILE SIZE SCHEDULE

Water Depth (MLW)	Pile Diameter	Pile Length
0' - 3'	10"	30'
3' - 6'	12"	40'
6' - 9'	14"	50'



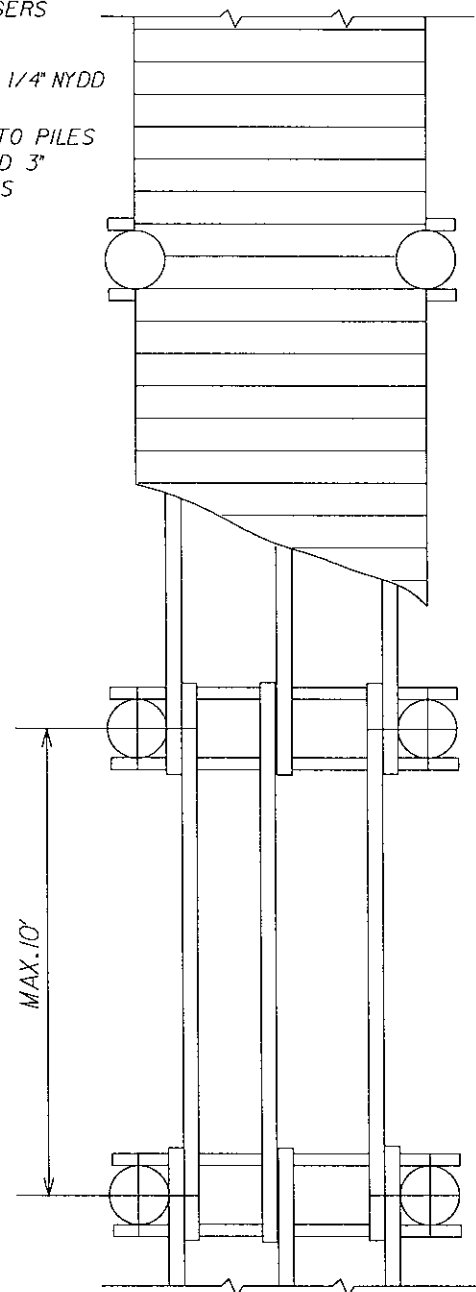
TYPICAL PIER SECTION

NOT TO SCALE

COPYRIGHT 2019

NOTES:

- All Wood shall be grade #1 or better per S.P.I.B. Standards. Treatment shall be per AWP Standards:
Piles - 2.5 lb/cu. ft. CCA Type C is required.
Stringers - 2.5 lb/cu. ft. CCA Type C is required.
Decking - 1.5 lb/cu. ft. CCA Type C is required.
- All steel hardware shall be hot dip galvanized after fabrication and must be specified for marine use.
- For pilings extending more than 6 ft. above MLW, the pile length must be increased accordingly.
- For pier widths of 3' or less a center stringer is not required unless composite decking is being utilized.
- This standard is for typical river conditions with firm granular soil. It does not take into account excessive water depth, poor soil conditions, scouring due to currents or waves, or heavy loads. Where site conditions differ the structure shall be designed and sealed by a Licensed Professional Engineer registered to practice in the State of Maryland.
- The details on this drawing are to be considered as the minimum standards for specific conditions. It shall be the responsibility of the applicant's contractor to determine if conditions require design modifications. Waterfront Engineering, Design and Construction, Inc. assume no responsibility or liability for performance of the structure on this drawing.
- All bolts to be thru bolted and recessed on outboard side. Minimum size of hardware is 1" diameter bolts with 3" x 1/4" NYDD washer and nut.
- Use #10-3-316SS screws when attaching decking to pier. Two screws on each stringer across the entire width of the pier.
- WEDC, Inc. reserves the right to prosecute violators of Federal copyright laws.



TYPICAL PIER PLAN

NOT TO SCALE

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

PIER DETAIL SHEET

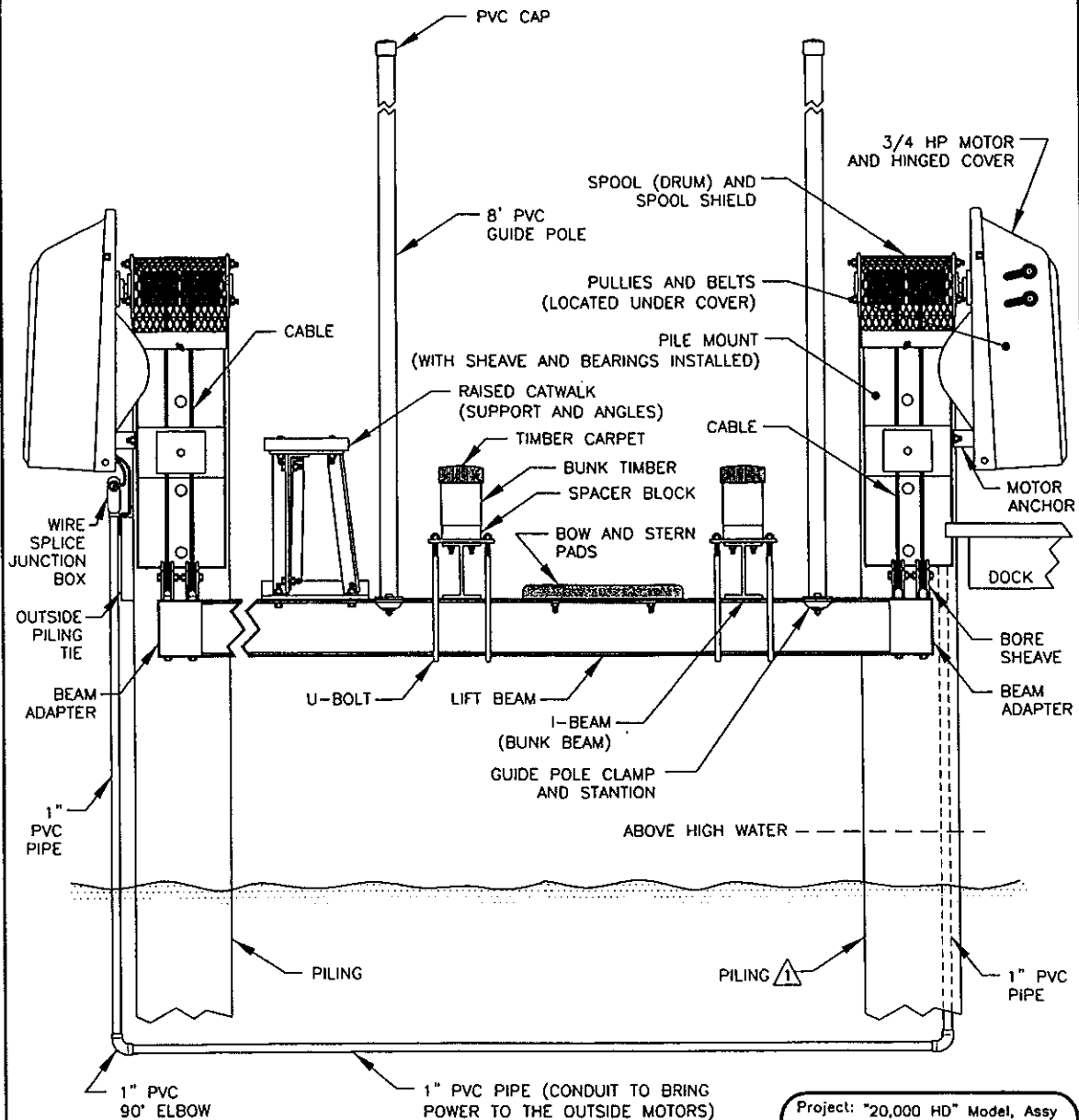
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 12 of 23 Date: March 24, 2023
State: Maryland
at: Bembe Beach

GENERAL NOTES:

⚠ IMPORTANT—PILINGS SHOULD BE SECURELY ANCHORED TO A SEAWALL OR INTEGRATED INTO A DOCK.



Project: "20,000 HD" Model, Assy Drawing Part Names (Piling Mount)		
No.: 001	Revision Date:	
Scale: None	Date: 03-20-01	Sheet: 1 of 1

TYPICAL BOAT LIFT DETAIL

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 436,471 SF

BOAT LIFT DETAIL

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 13 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel

State: Maryland
at: Bembé Beach

Application by: Port Annapolis Associates
Sheet 14 of 23 Date: March 24, 2023

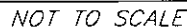
PROPOSED:
Marina World

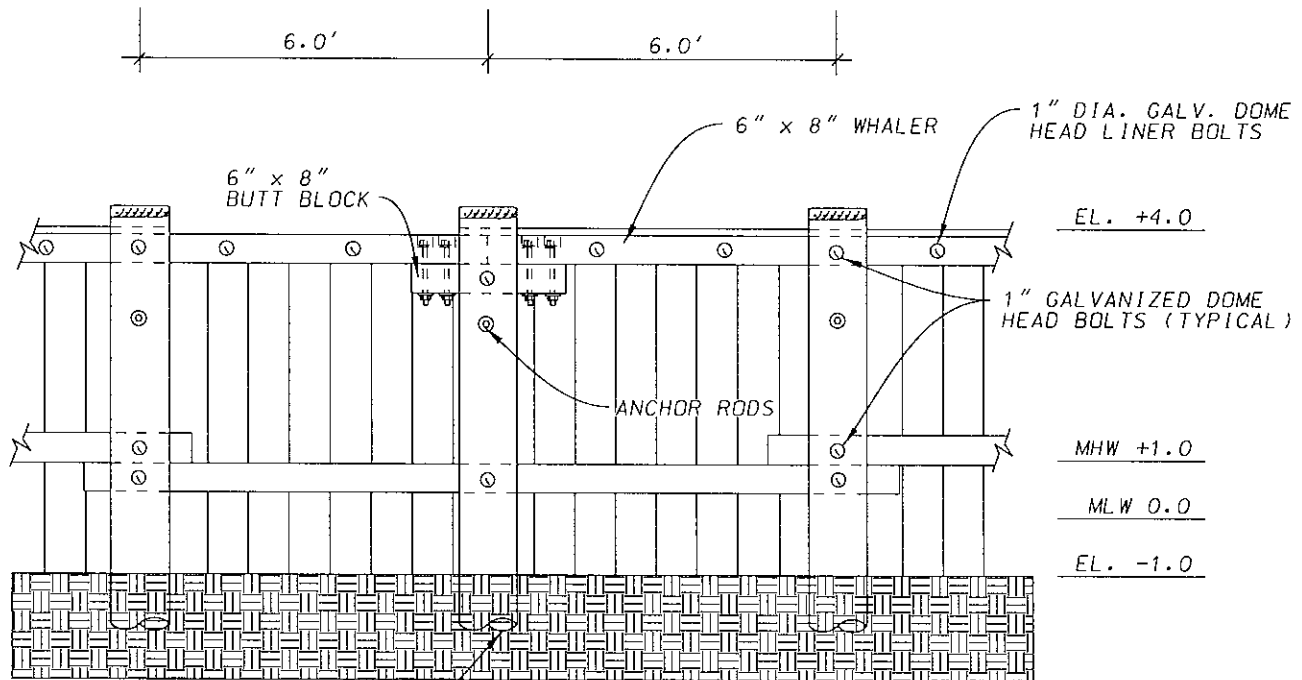
NOTES:

1. Wood shall be grade #1 or better per S.P.I.B. Standards. Treatment shall be per AWPFA Standards.
 - (1) Piles - 2.5 lb/cu. ft. CCA Type C is required.
 - (2) Wales, Cap-Boards, and Sheeting - 2.5 lb/cu. ft. CCA Type C is required.
2. All steel hardware shall be hot dip galvanized after fabrication and must be specified for marine use.
3. All wall piles must be a minimum length of 35' with 12" minimum butt, 8" minimum tip, 6.0' O/C.
4. This standard is for typical river conditions with firm granular soil. It does not take into account excessive water depth, poor soil conditions, scouring due to currents or waves, or heavy loads. Where site conditions differ the structure shall be designed and sealed by a Licensed Professional Engineer registered to practice in the State of Maryland.
5. The details on this drawing are to be considered as the minimum standards for specific conditions. It shall be the responsibility of the applicant's contractor to

Continued:

- determine if conditions require design modifications. Waterfront Engineering, Design and Construction, Inc. assume no responsibility or liability for performance of the structure on this drawing.
6. All bolts to be thru bolted and recessed on outboard side. Minimum size of hardware is 1" diameter bolts with 3" x 1/4" NYDD washer and nut.
7. Use 60d spikes for attaching sheeting to wales and 20d nails to attach cap to wales.
8. All piles must be driven or vibrated in where possible.
9. Use minimum of 16 gauge copper w/2" overlap for wall pile caps.
10. All existing plumbing and electric to be extended through new bulkhead.
11. This is not an engineered or sealed construction detail. This detail is for general permitting purposes only.

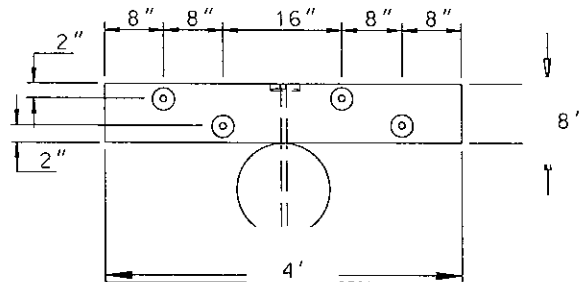




35' TIMBER WALL PILE, 6.0' O/C.
12" MINIMUM BUTT, 8" MINIMUM
TIP 2.5 CCA, CLASS 'B' PILE

WALE SPLICE DETAIL

NOT TO SCALE



BUTT BLOCK TOP VIEW

NOT TO SCALE

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

WALE SPLICE AND BUTT BLOCK

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek State: Maryland
co: Anne Arundel at: Bembe Beach
Application by: Port Annapolis Associates
Sheet 15 of 23 Date: March 24, 2023

HSP2

TECHNICAL DATA SHEET

WOVEN GEOTEXTILE

GEOSYNTHETICS

HSP2 is manufactured using high tenacity polypropylene yarns woven to form a dimensionally stable network. It has been stabilized to resist degradation due to ultraviolet exposure and is resistant to commonly encountered mildew, insects and soil chemicals, and is non-biodegradable. The high strength and flow rate of HSP2 makes it ideal for construction of embankments over soft soils, steepened slopes and retaining walls.

SPECIFICATIONS:

The HSP2 polypropylene woven fabric will utilize the following characteristics:

PROPERTY	TEST METHOD	MIN. AVG. ROLL VALUE
Grab Tensile Strength	ASTM D4632	315 x 315 lbs
Grab Tensile Elongation	ASTM D4632	15%
Wide Width Tensile Strength	ASTM D4595	2400 x 2400 lbs/ft
Wide Width Elongation	ASTM D4595	12 x 8%
Wide Width Strength at 5% Strain	ASTM D4595	774 x 1404 lbs/ft
CBR Puncture	ASTM D6241	1400 lbs
Trapezoid Tear Strength	ASTM D4533	125 x 125 lbs
UV Resistance @ 500 hrs	ASTMD4355	90%
Apparent Opening Size (AOS)	ASTM D4751	40 US Sieve
Permittivity (sec ⁻¹)	ASTM D4491	0.70 (sec ⁻¹)
Flow Rate	ASTM D4491	50 gpm/ft ²

Values quoted above are the result of multiple tests conducted at an independent testing facility. HSP2 meets or exceeds values listed.

Mullen burst ASTM D-3786 has been removed. It is not recognized by ASTM D-35 on Geosynthetics.

Puncture ASTM D-4833 has been removed. It is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D-6241.

PACKAGING:

Roll Width	15 ft.
Roll Length	300 ft.
Roll Area	500 yd ²

Disclaimer: ACF Environmental assumes no liability for the completeness or accuracy of this information or the ultimate use of this information. This document should not be construed as engineering advice. Always consult the project engineer for project specific requirements. The end user assumes sole responsibility for the use of this information and product.

For more information about our products, contact Inside Sales at 800.448.3636 or email at info@acfenv.com



*FILTER FABRIC FOR
BULKHEADS*

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

**FILTER FABRIC
DETAIL SHEET**
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek State: Maryland
co: Anne Arundel at: Bembe Beach
Application by: Port Annapolis Associates
Sheet 16 of 23 Date: March 24, 2023



Platipus Anchor Specification

B10 BAT Anchor

Preliminary load testing and in process load testing will be performed to insure the anchor's performance.

If, during the work, unforeseen ground conditions or obstructions are encountered that have not been identified on any soils investigation report or indicated whilst conducting a site test, then the anchor specification may change accordingly. We will not be liable for any costs associated with these changes.

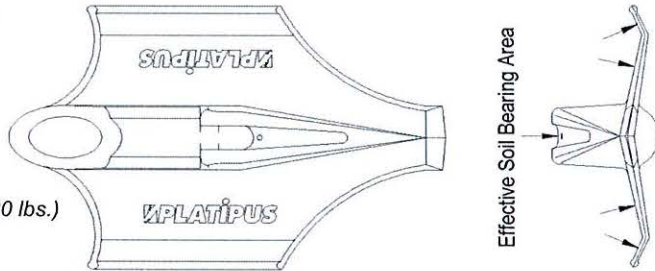
Platipus Anchor Assembly

Cast Galvanized Spheroidal Graphite Anchor (50 yr. design life in normal soils)

Anchor

Platipus B10 cast iron galvanized spheroidal anchor with a T-Knuckle internally machined to accept up to a 1" threaded bar.

- Effective Soil Bearing Area: 138,000mm² (~213.90in²)
- Width: 335mm (~13.1")
- Length: 541mm (~21.2")
- Height: 110mm (~4.3")
- Weight: Minimum: 13.6 kg (30 lbs.)



This anchor has an ultimate holding capacity of 196kN (44,000 Lbs.) depending on soils and has minimum drive depth of 4.0m – 5.0m (13' to 16') beyond failure plane.

All anchors shall be manufactured in accordance with ISO 9001 standards, and anchor manufacturer shall provide proof of ISO 9001 certification.

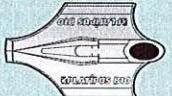
PLATIPUS, Inc. 1902 Garner Station Blvd., Raleigh, NC 27603 USA.
 Phone Toll Free: (866) 752-8478 Fax: (919) 622-0998
 Web: www.platipus.us E-Mail: usa@platipus.us
 Platipus, Inc. is a USA Registered Company

PLATIPUS EARTH ANCHORING DETAILS

Tax Account No.: 6000-9001-0863 Tax Map: 052G Parcel: 284 Deed Ref: 3004/60 Lot: N/A Zoning: WMI Lot Size: 10.02 AC	ANCHORING DETAIL SHEET	PROPOSED: Marina Work	
	Waterfront Engineering, Design and Construction, Inc. 8348 Ritchie Hwy. Pasadena, MD 21122 (410) 798-1494 waterfrontdesign@verizon.net	in: Back Creek co: Anne Arundel Application by: Port Annapolis Associates Sheet 17 of 23 Date: March 24, 2023	

State: Maryland
 at: Bembe Beach

CORE HOLE / CUT DIMENSIONS

Example				
B06				
ANCHOR		CIRCULAR	MULTI-CORE HOLE	RECTANGULAR
S06		63mm 2.5"	N/A	N/A
S08		95mm 3.75"	N/A	N/A
B04		127mm 5"	N/A	110mm x 110mm 4.5" x 4.5"
B06		210mm 8.25"	3 x 127mm 3 x 5"	100mm x 210mm 4" x 8.25"
B08		265mm 10.5"	3 x 127mm 3 x 5"	115mm x 265mm 4.5" x 10.5"
B10		340mm 13.5"	N/A	115mm x 340mm 4.5" x 13.5"

070114


PLATIPUS 866 Platipus (752 8478) @ usacivils@platipus.us www.platipus.us
EARTH ANCHORING SYSTEMS Platipus Anchors Inc, 1902 Garner Station Boulevard, Raleigh, NC 27603, USA.

PLATIPUS EARTH ANCHORING DETAILS

Tax Account No.:
 6000-9001-0863
 Tax Map: 052G
 Parcel: 284
 Deed Ref: 3004/60
 Lot: N/A
 Zoning: WMI
 Lot Size: 10.02 AC

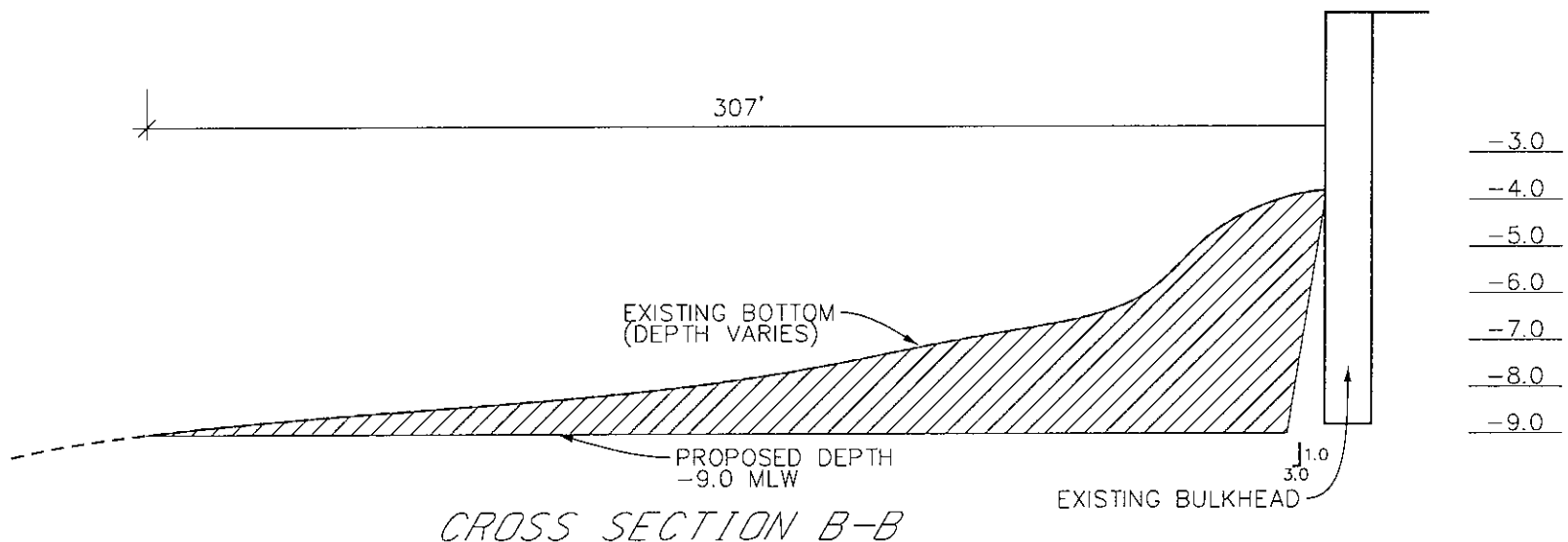
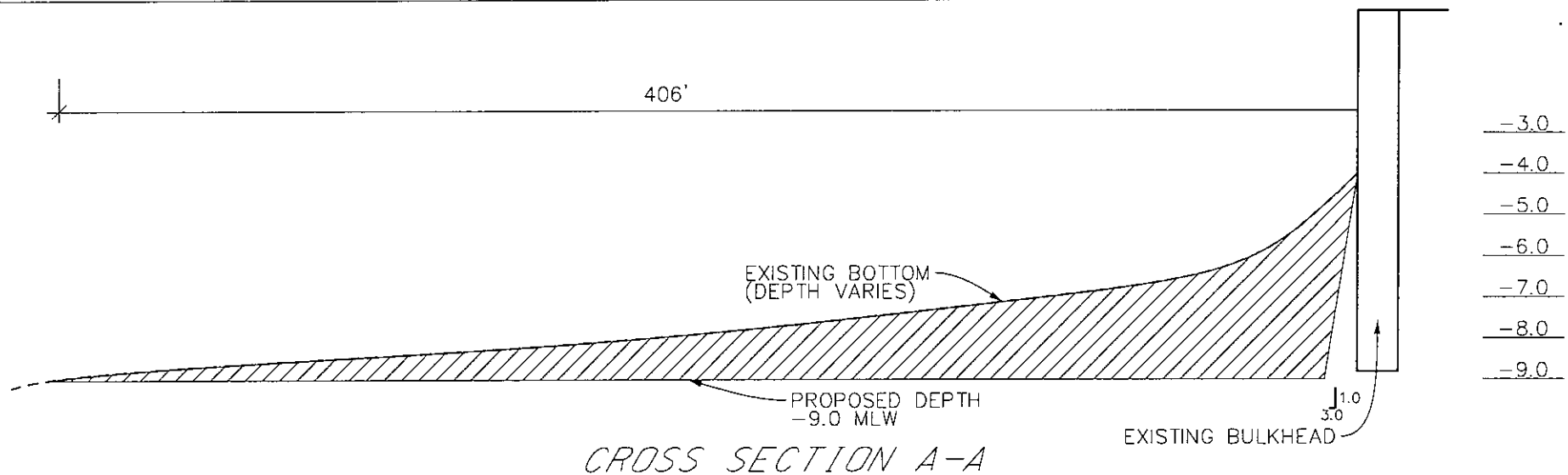
CORE HOLE CUT DETAIL SHEET

Waterfront Engineering,
 Design and Construction, Inc.
 8348 Ritchie Hwy.
 Pasadena, MD 21122
 (410) 798-1494
 waterfrontdesign@verizon.net

PROPOSED:
 Marina Work

in: Back Creek
 co: Anne Arundel
 Application by: Port Annapolis Associates
 Sheet 18 of 23 Date: March 24, 2023

State: Maryland
 at: Bembe Beach



DREDGING CROSS SECTIONS

NOT TO SCALE

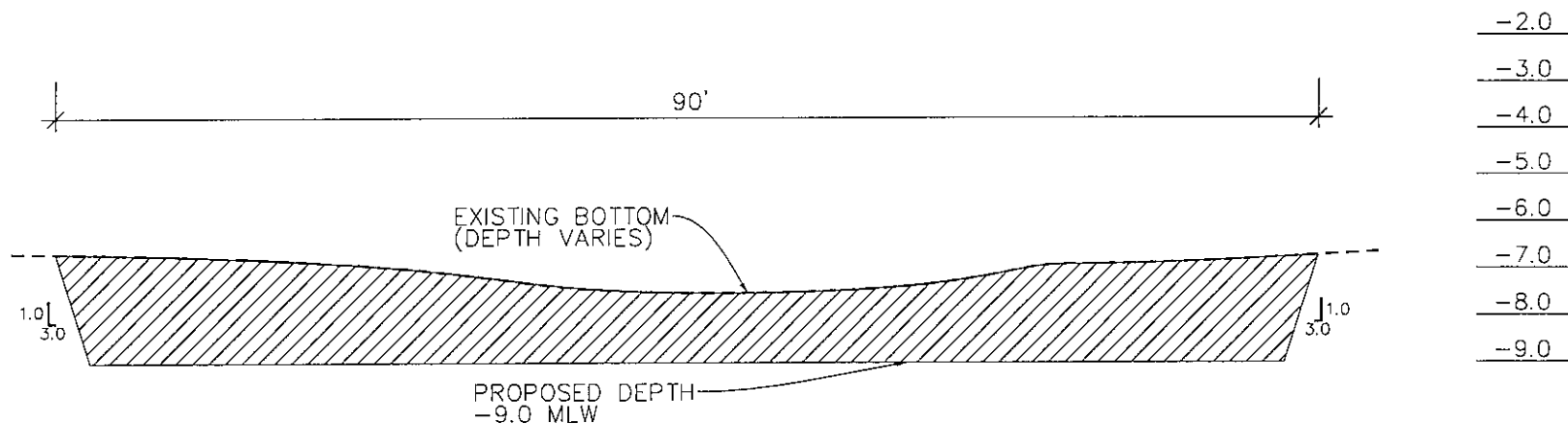
Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

DREDGING CROSS
SECTION A-A AND B-B
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 19 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach



CROSS SECTION C-C

DREDGING CROSS SECTIONS

NOT TO SCALE

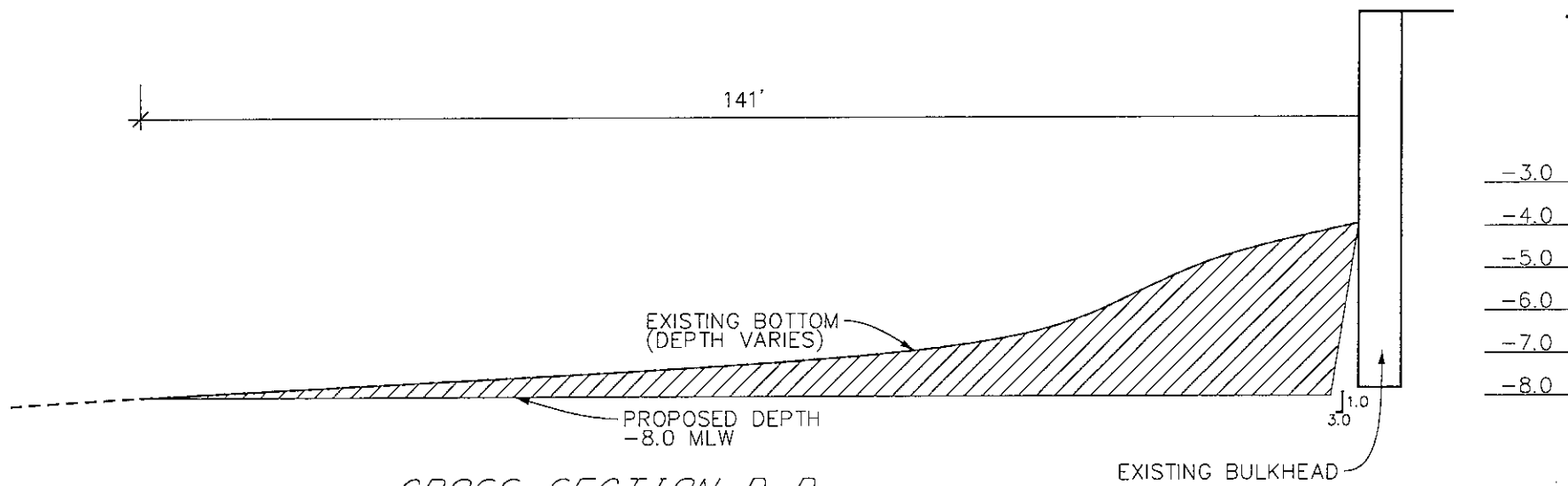
Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

DREDGING CROSS
SECTION C-C
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

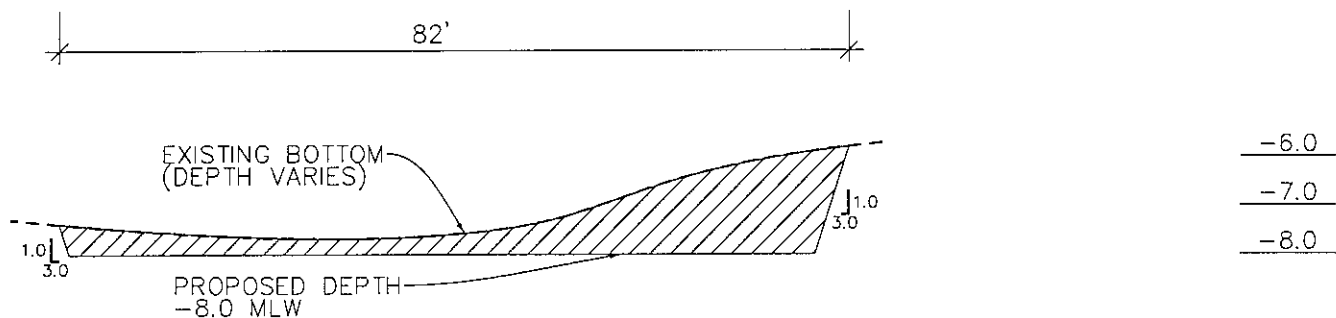
PROPOSED:
Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 20 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach



CROSS SECTION D-D



CROSS SECTION E-E

DREDGING CROSS SECTIONS

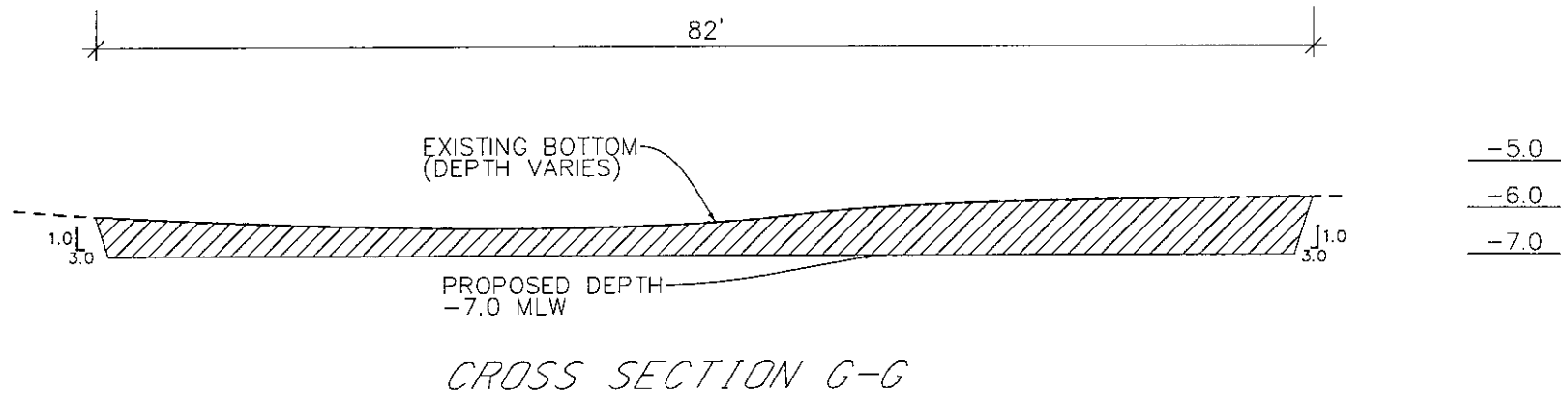
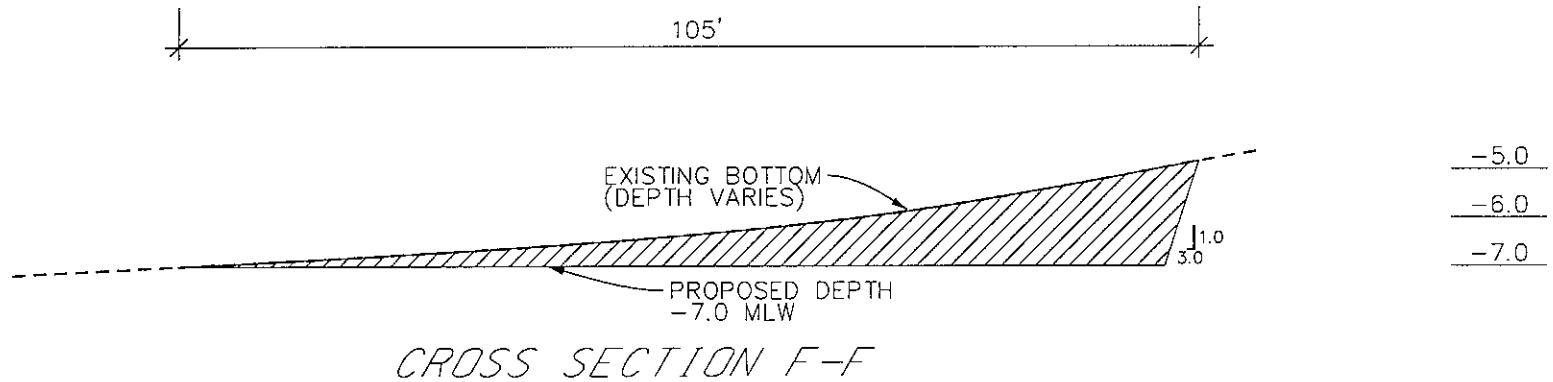
Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

DREDGING CROSS
SECTION D-D AND E-E
Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

Marina Work

in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 21 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach



DREDGING CROSS SECTIONS

NOT TO SCALE

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

DREDGING CROSS SECTION F-F AND G-G

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

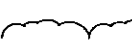
in: Back Creek
co: Anne Arundel
Application by: Port Annapolis Associates
Sheet 22 of 23 Date: March 24, 2023

State: Maryland
at: Bembe Beach

SITE PLAN NOTES AND DISCLAIMERS

1. PROPERTY LINES SHOWN HEREON HAVE BEEN TAKEN FROM FIELD EVIDENCE, AND/OR AVAILABLE DEEDS AND PLATS AND SHOULD NOT BE CONSTRUED TO BE REPRESENTATIVE OF THE ACCURACY OF A BOUNDARY SURVEY. THIS IS NOT A BOUNDARY SURVEY! THIS SITE PLAN WAS DEVELOPED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REFLECT ENCUMBRANCES, DEDICATIONS, AND/OR RESTRICTIONS WHICH MAY EXIST AND COULD POTENTIALLY BE REVEALED THROUGH A THOROUGH TITLE EXAMINATION.
2. ALL SHORELINE WORK WILL BE CONDUCTED FROM WATER. STOCKPILE AREA WILL BE ON BARGE TO BE LOADED FROM AN AUTHORIZED OFF-SITE LOCATION.
3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ANY PROPOSED STRUCTURES IN RELATION WITH THE PROPERTY CORNERS. NEIGHBORING STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE IN LOCATION AND SHOULD NOT BE USED TO LOCATE NEW OR REPLACEMENT STRUCTURES. A SURVEY IS REQUIRED TO LOCATE ANY NEW OR REPLACEMENT STRUCTURES. THIS SURVEY MUST BE PERFORMED BY A STATE OF MARYLAND LICENSED SURVEYOR.
4. THIS SITE PLAN HAS BEEN PREPARED TO REPLACE EXISTING PIERS, DREDGE, AND REPLACE AN EXISTING BULKHEAD. ANY CHANGE TO THESE PLANS WILL REQUIRE A SEPARATE PERMIT FROM ANNE ARUNDEL CO., FOR WORK ABOVE MHW. IF ANY WORK WILL BE BELOW MHW OR WITHIN TIDAL OR NON-TIDAL WETLANDS THEN ADDITIONAL PERMITS ARE REQUIRED FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE ARMY CORPS OF ENGINEERS. THIS WILL REQUIRE MORE DETAILS AND INFORMATION. THIS DRAWING SHALL NOT BE UTILIZED FOR SUCH LICENSES OR PERMITS THAT ARE NOT SPECIFICALLY OUTLINED ON THIS PLAN.
5. CONTACT MS. UTILITY AT LEAST 48 HOURS PRIOR TO START OF ANY ON LAND OR IN WATER WORK. ALL UTILITIES MUST BE LOCATED PRIOR TO ANY CONSTRUCTION. THIS PLAN SHALL NOT BE UTILIZED FOR LOCATING ANY UTILITIES EITHER ABOVE OR BELOW GROUND.
6. TOPOGRAPHY WAS OBTAINED FROM 2017 ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS SURVEY DATA. WATER DEPTHS ARE TIED TO A VERTICAL DATUM OF 0.0 FEET WHICH IS EQUAL TO MEAN LOW WATER.

LEGEND

EXISTING CONTOUR	
EX. MEAN LOW WATER (MLW)	
EX. MEAN HIGH WATER (MHW)	
EXISTING TREE LINE	
PROPERTY LINE	
EXISTING RIP-RAP	
EXISTING/PROPOSED IMPROVEMENTS	
LIMIT OF DISTURBANCE	
TURBIDITY CURTAIN	
DREDGE/CUT AREA	

Tax Account No.:
6000-9001-0863
Tax Map: 052G
Parcel: 284
Deed Ref: 3004/60
Lot: N/A
Zoning: WMI
Lot Size: 10.02 AC

SITE PLAN NOTES AND DATA

Waterfront Engineering,
Design and Construction, Inc.
8348 Ritchie Hwy.
Pasadena, MD 21122
(410) 798-1494
waterfrontdesign@verizon.net

PROPOSED:
Marina Work

in: Back Creek State: Maryland
co: Anne Arundel at: Bembe Beach
Application by: Port Annapolis Associates
Sheet 23 of 23 Date: March 24, 2023

