STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION
26-WQC-0021

EFFECTIVE DATE: **September 1, 2026**

CERTIFICATION HOLDER: **Maryland Department of Natural Resources**
580 Taylor Ave, D-3
Annapolis, Maryland 21404
Attn: Kelly Wright

PROJECT LOCATION: **3461 Worcester Hwy, Snow Hill, Worcester County, MD 21842**

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH §9-313 THROUGH §9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (DEPARTMENT) HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN THE REQUEST FOR CERTIFICATION FOR MARYLAND DEPARTMENT OF NATURAL RESOURCES ASSOCIATED WITH U.S. ARMY CORPS OF ENGINEERS (CORPS) AUTHORIZATION CORPS AUTH NAB-2024-60129, WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS CERTIFICATION.

THIS CERTIFICATION IS HEREBY GRANTED WITH CONDITIONS. THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS. THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

PROJECT DESCRIPTION

Tracking Number: 202460129 Agency Interest Number: 84075

1. Remove existing marina infrastructure;

2. Construct the following: (Pier A)- four gangways measuring 31-foot long by 4-foot wide, 26-foot long by 4-foot wide, 30-foot-long by 6-foot wide, and 30-foot long by 8-foot wide leading to a 612-foot long by 6-foot wide floating parallel pier with a 40-foot long by 6-foot wide floating perpendicular pier with two 32-foot long by 6-foot wide finger piers, and four mooring piles, (Pier B & C)- two 64-foot long by 6-foot wide floating perpendicular piers with two 32-foot long by 6-foot wide finger piers, two 32-foot long by 4-foot wide finger piers, and four mooring piles, (Pier D)- a 64-foot long by 6-foot wide floating perpendicular pier with a 32-foot long by 6-foot wide finger pier, a 32-foot long by 4-foot wide finger

pier, a 25-foot long by 6-foot wide finger pier, a 25-foot long by 4-foot wide finger pier, and four mooring piles, (Pier E)- a 80-foot long by 6-foot wide floating perpendicular pier with a 25-foot long by 6-foot wide finger pier, two 25-foot long by 4-foot wide finger piers, and five mooring piles, and (Pier F)- a 110-foot long by 10-foot wide floating angled fuel pier; all extending a maximum of 100 feet channelward of the mean high water line;

3. Construct a 25-foot long by 6-foot wide fixed pier with a 34.5-foot long by 6-foot wide gangway and associated 16-foot long by 8-foot wide landing and one 29-foot long by 8-foot wide gangway leading to a 187-foot long by 6-foot wide floating parallel pier with three 31.5-long by 6-foot wide finger piers, four 25-foot long by 6-foot wide finger piers, a 30-foot long by 30-foot wide floating platform with two 32-foot long by 5-foot wide kayak launches, and two boat lifts with associated piles all extending a maximum of 68 feet channelward of the mean high water line;

4. Install 230-foot long by 1-foot wide temporary cofferdam;

5. Construct a 76-foot long by 77-foot wide boat ramp with two 50-foot long by 8-foot wide floating piers and associated concrete abutments, all extending a maximum of 50 feet channelward of the mean high water line;

6. Construct a 214-foot long stone toe revetment extending a maximum of 10 feet channelward of a deteriorated bulkhead.

This Water Quality Certification (Certification) is issued under authority of Section 401 of the Federal Water Pollution Control Act and its Amendments, Title 9, Subtitle 3 of the Environment Article, and Code of Maryland Regulations (COMAR) 26.08.02.10. The Department has determined from a review of the request application file that the project activities described in the above will not violate Maryland's water quality standards, provided that the following conditions are satisfied. The Department satisfied statutory and regulatory public notice requirements by placing this WQC on Public Notice from August 1, 2026 to August 28, 2026 on the Department's Public Notice webpage (and advertising in the Worcester County Times on August 6, 2026).

SPECIAL CONDITIONS

1. The Certificate Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certificate does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

2. If the authorized work is not performed by the property owner or is not otherwise exempt from the licensing requirement, all work performed under this Certification shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland and COMAR 26.30. The licensed marine contractor shall be authorized for the appropriate license category to perform or solicit to perform the activities within this authorization, if applicable. A list of licensed marine contractors and their license category may be obtained by contacting the MCLB at 410-537- 3249, by e-mail at MDE.MCLB@maryland.gov, or by accessing the Maryland Department of the Environment, Environmental Boards webpage at https://mde.maryland.gov/programs/water/WetlandsandWaterways/Pages/LicensedMarineContractors.aspx.

3. The Certificate Holder shall design and construct the stone revetment with filter cloth or similar geotech material to prevent the loss of fill material to waters of the State of Maryland.

4. The Certificate Holder, to reduce any potential adverse effects to aquatic resources, shall construct and maintain a cofferdam or similar containment structure around and channelward of the boat ramp area prior to any excavation and backfilling through completion of any excavation, backfilling, and concrete work along the shoreline.

GENERAL CONDITIONS

1. The Certification Holder shall comply with all water quality-related performance standards and conditions required by the Department or the Board of Public Works (BPW) in any state issued authorization for activities in tidal wetlands, nontidal wetlands, their 100-year floodplains, nontidal wetlands buffers, or nontidal wetland expanded buffers, to ensure that any discharges will not result in a failure to comply with water quality standards in COMAR 26.08.02 or any other water quality requirements of state law or regulation.

2. This Certification does not obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.

3. The Certification Holder shall obtain and comply with all additional authorizations or approvals, including self-certifying General Permits issued by the Department.

4. The Project shall be constructed and activities conducted in accordance with the final plan approved by the Department or BPW (or if Department or BPW approval is not required, then in accordance with the plan approved by the Corps), and its approved revisions (Approved Plan).

5. This Certification does not authorize any injury to private property, any invasion of rights, or any infringement of federal, state, or local laws or regulations.

6. The Certification Holder shall allow authorized representatives of the Department access to the site of authorized activities during normal business hours to conduct inspections and evaluations of the operations and records necessary to assure compliance with this Certification.

7. Structures and activities may not interfere with movement of aquatic life, fish, and other wildlife nor cause their entanglement.

8. The Certification Holder may not conduct activities which result in the introduction of non-native species with adverse effects on the aquatic ecosystem into waters or wetlands.

9. No stockpiles of any material shall be placed in Waters of the U.S. or state or private tidal wetlands. All fill and construction materials not used in the project shall be removed and disposed of in a manner approved by the Department which will prevent their entry into waters of this State.

10. Temporary construction trailers or structures, staging areas and stockpiles may not be located within tidal wetlands, nontidal wetlands, nontidal wetlands buffers, nontidal wetland expanded buffers, or the 100-year floodplain unless specifically included on the Approved Plan.

11. The Certification Holder shall adhere to the construction time of year restrictions, unless waived or amended by the Department or BPW, as identified in a state authorization.

12. The Certification Holder shall obtain and comply with an erosion and sediment control plan approved by the appropriate authority (if applicable), including following the stabilization requirements set forth in COMAR 26.17.01.07 and "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control," as may be amended for activities which result in an earth disturbance subject to the requirements in Annotated Code of Maryland, Environment Article, Title 4 and COMAR 26.17.01.

13. The disturbance of the bottom of the waterway and sediment transport into adjacent State waters shall be minimized.

14. The Certification Holder shall notify the Compliance Program at mde.wsacompliance@maryland.gov a minimum of 2 weeks prior to commencement of regulated activities and discharges.

15. The Certification Holder shall notify the Water and Science Administration, Wetlands and Waterways Protection Program, in writing, upon transferring property ownership or responsibility for compliance with these conditions to another person. The new owner/operator shall request, in writing, transfer of this Certification to his/her name.

16. The Certification Holder shall ensure that a copy of this Certification, including the Approved Plans, is available at the site until the authorized work is complete.

17. This Certification is valid for the project identified herein and the associated Corps authorization NAB-2025-61733 until such time that the Corps authorization expires or is not administratively extended.

STATEMENTS OF NECESSITY AND CITATIONS

1. Statement of Necessity for General Conditions 1, 2, 3, 4, and 10 and Special Conditions 1, 3, and 4: These conditions are necessary to ensure that water quality standards are met, and designated uses are maintained.

   Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23; COMAR 26.24

2. Statement of Necessity for General Condition 5: This condition is necessary to clarify the scope of this certification to ensure compliance with water quality regulations, without limiting restrictions through other requirements.

   Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08, COMAR 26.08.02.10E; COMAR 26.23.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

3. Statement of Necessity for General Condition 6: Conditions of certification involve precise actions to comply with water quality standards. Site inspection may be necessary to ensure that limits, methods, and other requirements are met to ensure that water quality standards are met and designated uses are maintained. These conditions are necessary to ensure that the activity was conducted, and project completed according to terms of the authorization/certification, while allowing for review of in-field modifications which may have resulted in discharges to ensure that water quality standards were met. Designated uses include support of estuarine and marine aquatic life and shellfish harvesting and for growth and propagation of fish, other aquatic life, and wildlife.

   Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2); COMAR 26.23.02.06; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

4. Statement of Necessity for General Condition 7: Movement of aquatic life and passage of flows is essential for growth and propagation of aquatic life, fish, and other wildlife to meet these designated uses.

   Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08;; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2) - B(8); 26.08.02.03B(1)(b); 26.08.02.03B(2)(e); COMAR 26.17.01; COMAR 26.23.02.06A; COMAR 26.23; COMAR 26.17.04

5. Statement of Necessity for General Condition 8: Nuisance or non-native species may spread and disrupt and dislodge native species from their habitat, leading to declines in distribution, density, growth and propagation. This may result in failure to support native species; and growth, propagation of fish, other aquatic life, and wildlife. Limitations on loss will sustain habitat for a variety of aquatic species. The conditions ensure that discharges will not result in failure to support designated uses.

   Citations: COMAR 26.08; COMAR 26.08.02.02.B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3)(b; COMAR 26.08.02B(4))(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e);; COMAR 26.23.02.06A; COMAR 26.23; COMAR 26.17.04

6. Statement of Necessity for General Conditions 9, 10, 12: Fill or construction material within or adjacent to regulated resources may cause discharges resulting in turbidity in excess of water quality standards and interfere with designated uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

   Citations: 26.08.02.03B(1)-B(2); COMAR 26.08.02.03-3; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

7. Statement of Necessity for General Condition 11: The growth and propagation of fish, other aquatic life, and wildlife and support of estuarine and marine aquatic life and shellfish harvesting are dependent upon certain times during the year and specific environmental conditions. The condition is necessary to ensure that activities are restricted during the critical growth, propagation, movement, and harvesting periods to ensure that designated uses will be met.

   Citations: Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3); COMAR 26.08.02.02B(4)(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMAR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e)

8. Statement of Necessity for General Condition 13: Restrictions on instream construction are necessary to protect designated uses for propagation and growth of fish, other aquatic life, and wildlife and comply with numeric water quality standards for turbidity and clarity.

   Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03-3.D; COMAR 26.23.02.06; COMAR 26.08.02.02B(1)(d); COMAR 26.08.02.02B(2)(a); COMAR 26.08.02.02B(3); COMAR 26.08.02.02B(4)(a); COMAR 26.08.02.02B(5); COMAR 26.08.02.02B(6)(a); COMAR 26.08.02.02B(7); COMAR 26.08.02.02B(8)(a); COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2)(e); COMAR 26.08.02.03-3.

9. Statement of Necessity for General Condition 14: The condition is necessary to ensure that Compliance personnel are aware of when discharges are taking place so that an inspection can be undertaken to ensure that water quality standards are met.

   Citation: MD Env Code § 1-301 (2019)

10. Statement of Necessity for General Condition 15: In order to ensure that water quality standards will be met and conditions followed, a responsible party must be identified for accountability if needed. A change in ownership or other responsibility must be indicated as the new Certification Holder.

    Citations: COMAR 26.08.02.10E(2)

11. Statement of Necessity for General Condition 16: This condition ensures that the Certification Holder and persons conducting work have the certification on the site for referral so that approved discharges will not result in violations of water quality standards.

    Citations: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.24; COMAR 26.08.02.01E(2); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23;

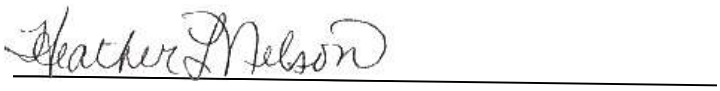
12. Statement of Necessity for General Condition 17: This condition is necessary to qualify the period of applicability of the terms and conditions of this Certification to be protective of Maryland water quality standards.

    Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; 40 C.F.R. 121, 15 C.F.R. 930, Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

13. Statement of Necessity for Special Condition 2: Expertise for conducting certain activities is required to ensure that there is no violation of water quality standards nor interference with designated uses. This condition is necessary to ensure that discharges will be conducted in a manner which does not violate water quality criteria nor interfere with designated uses.

    Citations: COMAR 26.08.02.02B(2)- B(4); COMAR 26.08.02.03B(2)(d) – (e); COMAR 26.08.02.03B(1)(b); 26.08.02.03B(2); COMAR 23.02.04.04

CERTIFICATION APPROVED



Heather L. Nelson, Program Manager
Wetlands and Waterways Protection Program
Water and Science Administration

Effective Date: September 1, 2026

cc: WSA Inspection & Compliance Program
U.S. Army Corps of Engineers

MARINA REPLACEMENT PROJECT

POCOMOKE RIVER STATE PARK MARINA & BOAT RAMP IMPROVEMENTS AT SHAD LANDING

100% CONSTRUCTION DOCUMENTS
3461 WORCESTER HIGHWAY
SNOW HILL, MARYLAND
WORCESTER COUNTY

PROJECT NO. P-018-203-010

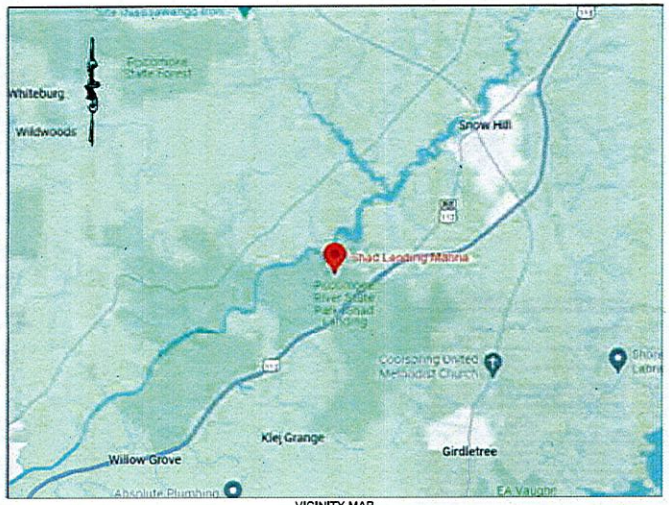
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GENERAL NOTES:

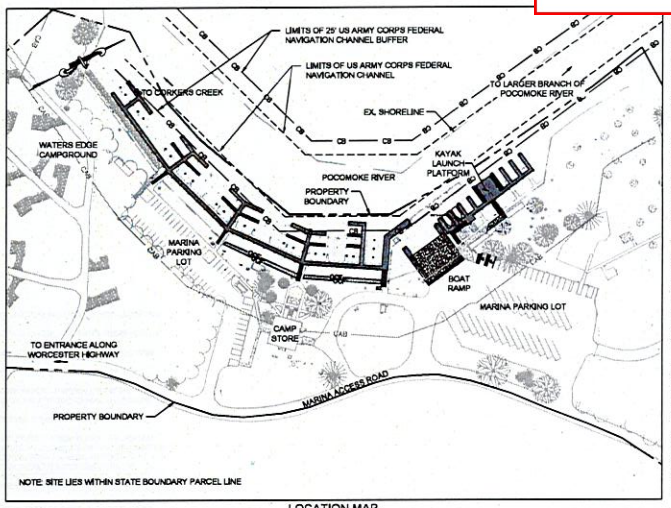
1. TAX MAP PARCEL: MAP 71, GRID 001, PARCEL 0028
2. PLAN SHOWS AREA OF SHAD LANDING MARINA IN POCOMOKE RIVER STATE PARK. PLAN DOES NOT SHOW THE COMPLETE PARCEL.
3. NO PERSON SHALL PLACE ANY OBSTRUCTION IN AN EASEMENT ASSOCIATED WITH A FEDERAL OR STATE REGULATED RESOURCE WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE APPROPRIATE REGULATORY AUTHORITY.
4. STORMWATER MANAGEMENT WILL NOT BE REQUIRED FOR THIS PROJECT. SEDIMENT & EROSION CONTROL WILL BE REQUIRED FOR UPLAND DISTURBANCE.
5. WETLANDS AND FLOODPLAIN HAVE NOT BEEN DELINEATED ON THIS PLAN.
6. THE SITE LIES WITHIN THE RESOURCE CONSERVATION AREA (RCA) CRITICAL AREA.
7. TIDAL ELEVATIONS PER NOAA STATION ID 8571359 LOCATED IN SNOW HILL, MARYLAND. MEAN HIGH WATER LEVEL (MHW) = 0.83' MEAN LOW WATER LEVEL (MLW) = -1.00'. FIELD SURVEY OBSERVED STAINING ON EXISTING PILINGS AT AN ELEVATION OF 1.042' WHICH IS TYPICALLY CONSISTENT WITH MHW.
8. TOPOGRAPHIC SURVEY WAS PERFORMED BY KCI TECHNOLOGIES, INC. IN JULY 2022.
9. FOREST CONSERVATION IS NOT REQUIRED FOR THIS PROJECT.
10. PLAN WAS CREATED WITHOUT OBTAINING A TITLE REPORT.
11. ALL WORK IS TO TAKE PLACE IN ONE PHASE.

APPLICABLE CODES AND STANDARDS:

1. 2019 PROCEDURE MANUAL FOR PROFESSIONAL SERVICES, STATE OF MARYLAND DEPARTMENT OF GENERAL SERVICES, DESIGN, CONSTRUCTION, AND ENERGY PROJECT MANAGEMENT AND DESIGN DIVISION.
2. 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION.
3. 2000 STORM WATER DESIGN MANUAL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION (INCLUDING APRIL 15, 2010 REVISIONS).
4. 2021 IBC - INTERNATIONAL BUILDING CODE
5. 2018 IPC - INTERNATIONAL PLUMBING CODE
6. MARYLAND BUILDING PERFORMANCE STANDARDS REGULATIONS, COMAR 09.12.54, 2022 EDITION
7. STATE OF MARYLAND FIRE PREVENTION CODE, 2020 EDITION
8. NFPA 1 - FIRE CODE, 2018 EDITION
9. NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2018 EDITION
10. NFPA 25 - STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2017 EDITION
11. NFPA 101 - LIFE SAFETY CODE, 2018 EDITION
12. NFPA 303 - FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS, 2018 EDITION
13. 2010 AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS
14. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
15. 2020 NATIONAL ELECTRICAL CODE
16. 2021 INTERNATIONAL ENERGY CONSERVATION CODE WORCESTER COUNTY FLOODPLAIN MANAGEMENT CODE BR 3-301 COAST SMART
17. MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT), STATE HIGHWAY ADMINISTRATION (SHA) BOOK OF STANDARDS - FOR HIGHWAY & INCIDENTAL STRUCTURES, CURRENT EDITION
18. INTERNATIONAL FUEL GAS CODE (IFGC)



VICINITY MAP
SCALE: 1" = 1 MILE



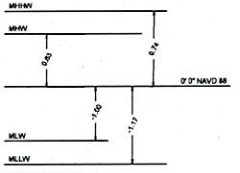
LOCATION MAP
SCALE: 1" = 100'

SHT. NO.	DWG. NO.	SHEET TITLE
01 OF 42	G-100	COVER SHEET
02 OF 42	C-001	EROSION & SEDIMENT CONTROL NOTES
03 OF 42	C-100	EXISTING CONDITIONS AND DEMOLITION PLAN
04 OF 42	C-101	SITE PLAN
05 OF 42	C-102	EROSION & SEDIMENT CONTROL PLAN
06 OF 42	C-400	ENLARGED PARCEL ADA PLAN
07 OF 42	C-500	SITE DETAILS
08 OF 42	C-501	SITE DETAILS
09 OF 42	C-502	EROSION & SEDIMENT CONTROL DETAILS
10 OF 42	S-001	STRUCTURAL NOTES AND COVER SHEET
11 OF 42	S-100	PROPOSED MARINA LAYOUT
12 OF 42	S-101	PARTIAL PILE PLAN (1)
13 OF 42	S-102	PARTIAL PILE PLAN (2)
14 OF 42	S-103	PARTIAL PILE PLAN (3)
15 OF 42	S-300	PIER AND CHANNELS SECTIONS (1)
16 OF 42	S-301	PIER AND CHANNELS SECTIONS (2)
17 OF 42	S-400	ENLARGED BOAT RAMP PLAN AND DETAILS
18 OF 42	S-401	ENLARGED ADA FIXED PIER PLAN AND DETAILS
19 OF 42	S-402	ENLARGED FISH STATION AND BOAT LIFT PLAN W/ DETAILS
20 OF 42	S-500	TYPICAL DETAILS
21 OF 42	P-001	PLUMBING COVER SHEET
22 OF 42	P-100	PLUMBING DEMOLITION PLAN
23 OF 42	P-101	PLUMBING NEW WORK PLAN
24 OF 42	P-500	PLUMBING DETAILS
25 OF 42	F-001	FIRE STANDPIPE COVER SHEET
26 OF 42	F-100	FIRE STANDPIPE DEMOLITION PLAN
27 OF 42	F-200	FIRE STANDPIPE NEW WORK PLAN
28 OF 42	F-500	FIRE STANDPIPE DETAILS
29 OF 42	F-600	FIRE STANDPIPE CONCEPTUAL RISER
30 OF 42	E-001	ELECTRICAL COVER SHEET
31 OF 42	E-100	ELECTRICAL DEMOLITION PLAN
32 OF 42	E-101	ELECTRICAL NEW WORK PLAN
33 OF 42	E-500	ELECTRICAL ONE LINE DIAGRAM
34 OF 42	E-501	ELECTRICAL DETAILS
35 OF 42	E-600	ELECTRICAL SCHEDULE
36 OF 42	DWT-001	FUEL DEMOLITION PLAN
37 OF 42	DWT-002	FUEL DESIGN LAYOUT
38 OF 42	DWT-003	MECHANICAL DETAILS
39 OF 42	DWT-004	MECHANICAL DETAILS II
40 OF 42	DWT-005	MECHANICAL DETAILS III
41 OF 42	DWT-006	ELECTRICAL DETAILS
42 OF 42	DWT-007	ELECTRICAL DETAILS II

STATE OF MARYLAND

DEPARTMENT OF GENERAL SERVICES
ATIF CHAUDHRY, SECRETARY
301 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

BOARD OF PUBLIC WORKS
WES MOORE, GOVERNOR
BROOKE E. LIERMAN, COMPTROLLER
DERECK E. DAVIS, TREASURER



DATUM COMPARISONS
NOT TO SCALE

DATUM COMPARISONS WERE OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). INFORMATION INTERPOLATED FROM STATION ID #8671359

100% CONSTRUCTION DOCUMENTS

SML ENGINEER
RAMANON BAYLER, P.E.
KCI TECHNOLOGIES INC.
1502 NARROWS ROAD
KENNARK, DE 19711
(302) 316-1967

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ELECTRICAL ENGINEER
KANAK BARRAJ
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10701 STONES DR,
FREDERICKSBURG, VA 22408
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PLUMBING ENGINEER
BRADY GREM
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MARYLAND DEPARTMENT OF NATURAL RESOURCES APPROVAL
NAME DATE
TITLE

DEPARTMENT OF GENERAL SERVICES APPROVAL
PROJECT MANAGER DATE
CHIEF OF PM&D DATE

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

MDE Page 1 of 21

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE _____

SIGNATURE _____ DATE _____

KCI TECHNOLOGIES
Engineers Planners Surveyors Construction Managers
936 Ridgebrook Road, Sparks, Maryland 21152
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REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1" = 50'
DRAWN BY: RKB
CHECKED BY: RKB
MDE NO:

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
1 INCH = 100 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

COVER SHEET
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
G-100
SHEET 1 OF 42
KCI PROJECT NUMBER
272202504

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY MDE AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY MDE, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF MDE.

2. THE CONTRACTOR SHALL NOTIFY MDE IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
   A. THE REQUIRED PRE-CONSTRUCTION MEETING.
   B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
   C. DURING INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLANS). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
   D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
   E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
   F. PRIOR TO FINAL ACCEPTANCE.

3. THE PLAN APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MDE AND THE AGENCY RESPONSIBLE FOR THE PROJECT.

4. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE MDE INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE MDE INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM MDE INSPECTOR. THE CONTRACTOR SHALL OBTAIN PRIOR AGENCY AND MDE APPROVAL FOR MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.

5. THE MDE INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.

6. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.

7. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE MDE INSPECTOR.

8. EROSION AND SEDIMENT CONTROL FOR UTILITY CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH APPROVED PLANS. UTILITY CONSTRUCTION SHALL ONLY BE FOR AREAS WITHIN THE DELINEATED LIMIT OF DISTURBANCE. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO "THE START OF WORK. WHEN SAME DAY STABILIZATION IS APPROVED:
   A. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
   B. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY.

9. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN MDE APPROVED DEWATERING PRACTICE PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

10. CONCRETE WASHOUT STRUCTURES SHALL BE USED WHEN CONCRETE TRUCKS, DRUMS, PUMPS, CHUTES, OR OTHER EQUIPMENT IS RINSED OR CLEANED ON-SITE.

11. CONSTRUCTION ACTIVITIES PRODUCING DUST SHALL IMPLEMENT CONTROL MEASURES TO AVOID THE SUSPENSION OF DUST PARTICLES AND/OR PREVENT DUST FROM BLOWING OFF-SITE OR TO AREAS WITHOUT TREATMENT.

12. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
   A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
   B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

13. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.

14. WHEN SEEDING, ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 2:1 SHALL BE STABILIZED WITH 4 INCHES OF TOPSOIL, SEED, AND MULCH. ALL DISTURBED AREAS WITH SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH BIODEGRADABLE MULCH RETENTION OVER 2 INCHES OF TOPSOIL AND SEED ONLY. PLASTIC NETTING MULCH RETENTION MATTING IS PROHIBITED.

15. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE MINIMIZED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

16. FOR STOCKPILE SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), THE CONTRACTOR SHALL APPLY BIODEGRADABLE MULCH RETENTION OVER 2 INCHES OF TOPSOIL AND SEED OR OTHER APPROVED STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN THREE (3) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. PLASTIC NETTING MULCH RETENTION MATTING IS PROHIBITED. FOR SLOPES 3:1 OR FLATTER, THE CONTRACTOR SHALL APPLY STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN SEVEN (7) DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

17. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

18. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOILS AMENDMENTS AND BIODEGRADABLE MULCH RETENTION. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROVIDE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NOT LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT FOR SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS FOR FLATTER SLOPES. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND BIODEGRADABLE MULCH RETENTION SHALL BE APPLIED TO DISTURBED AREAS. THE PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

19. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITH PERMISSION OF THE MDE INSPECTOR WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. UPON REMOVAL OF SEDIMENT CONTROL DEVICES, THE AREA DISTURBED BY REMOVAL SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED, WITHIN 24 HOURS OF SAID REMOVAL. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

20. OFF-SITE OR BORROW AREAS ON STATE OR FEDERAL PROPERTY SHALL HAVE PRIOR APPROVAL BY MDE AND OTHER APPLICABLE STATE, FEDERAL, AND LOCAL AGENCIES; OTHERWISE APPROVAL SHALL BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE SHALL BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

21. SITE INFORMATION:
   A. UPLAND AREA DISTURBED 4,845 SQUARE FEET
   B. TOTAL CUT 0 CUBIC YARDS
   C. TOTAL FILL 90 CUBIC YARDS
   D. OFF-SITE WASTE/BORROW AREA LOCATION N/A

22. USE ONLY 100-PERCENT BIODEGRADABLE MULCH RETENTION MESH FOR SEEDING AND VEGETATIVE SLOPE STABILIZATION. NO PLASTIC, SYNTHETIC NETTING FOR SEED AND MULCH RETENTION SYSTEMS PERMITTED.

SEQUENCE OF CONSTRUCTION

1. NOTIFICATION OF MDE'S COMPLIANCE PROGRAM AT 410-537-3510 A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF ANY EARTH DISTURBANCE ACTIVITY TO SCHEDULE A PRE-CONSTRUCTION MEETING.
2. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS.
3. CONSTRUCTION AND STABILIZATION OF PERIMETER CONTROLS, WHICH INCLUDES BUT MAY NOT BE LIMITED TO, STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TURBIDITY CURTAIN, AND COFFERDAM. CONTRACTOR TO DETERMINE EXACT LOCATION OF COFFERDAM AND TURBIDITY CURTAIN SO AS TO PROVIDE ENOUGH CLEARANCE FOR CONSTRUCTION. ALL SEDIMENT CONTROLS ARE TO BE INSPECTED REGULARLY TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. IF WATER IS PONDING WITHIN THE LIMITS OF DISTURBANCE (LOD), A PORTABLE PUMP AND FILTER BAG ARE TO BE UTILIZED TO DEWATER THE AREA.
4. WITH PERIMETER CONTROLS IN PLACE, BEGIN SITE DEMOLITION PER SHEET C-100. CARE IS TO BE TAKEN WITH DEMOLITION OF PILES WITHIN THE SUBMERGED AQUATIC VEGETATION (SAV) AREA, SO AS NOT TO DAMAGE THE SAV. CONTRACTOR TO DISPOSE OF ALL MATERIAL OFF-SITE UNLESS OTHERWISE NOTED ON PLANS.
5. ALL SEDIMENT CONTROLS ARE TO BE INSPECTED REGULARLY TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY.
6. WITH ALL SEDIMENT CONTROLS IN PLACE, AND ALL DEMOLITION COMPLETE, BEGIN CONSTRUCTION OF REVETMENT, BOAT RAMP, PILING AND FLOATING PIERS. A VIBRATORY HAMMER IS TO BE USED TO INSTALL STEEL PIPE PILES SO AS TO MINIMIZE ADVERSE IMPACTS ASSOCIATED WITH UNDERWATER NOISE.
7. INSTALL ELECTRICAL AND WATER COMPONENTS. REFER TO PLUMBING AND ELECTRICAL PLANS FOR WORK TO BE COMPLETED.
8. STABILIZE ALL DISTURBED AREAS.
9. WITH ALL AREAS STABILIZED, GAIN MDE APPROVAL PRIOR TO REMOVAL OF SEDIMENT CONTROLS.
10. WITH MDE APPROVAL, REMOVE SEDIMENT CONTROLS AND STABILIZE AREAS THAT ARE DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.
11. SUBMIT FINAL STABILIZATION PHOTOGRAPHS OF THE IMPERVIOUS REMOVAL AREA TO MDE SSPRD, AT MDE.SSPRD@MARYLAND.GOV, FOR PROJECT CLOSEOUT.

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YR FLOODPLAIN.
3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND AND BUFFER AREAS. THE AREAS SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
9. TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:
   -USE I WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
   -USE III WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD OCTOBER 1 THROUGH APRIL 30, INCLUSIVE, DURING ANY YEAR.
   -USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF ALL 40 EXISTING DOCKS, GANGWAYS, AND ASSOCIATED ITEMS SUCH AS BUT NOT LIMITED TO LIGHT POLES, TIMBER PILES, LADDERS, ETC. LOCATED ON OR NEAR THE DOCKS. THESE EXTENTS ARE SHOWN ON C-100 FOR REFERENCE. ALL EXISTING LADDERS, LIFE RINGS, ETC. SHALL BE REUSED PROVIDED IN GOOD CONDITION. A TOTAL OF 33 BOAT SLIPS, BOAT RAMP, AND 2 KAYAK LAUNCHES ARE PROPOSED WITH ADA ACCESSIBILITY PROVIDED TO ALL PROPOSED PIER LOCATIONS, AS WELL AS THE RESTRIPING AND REPAINTING OF THE EXISTING ADA SPACES ADJACENT TO THE PIERS. ALL OF THIS IS TO BE COMPLETED WITHIN THE 3,344 SF LOD. REFER TO PLAN SHEETS 2 THROUGH 9 FOR ADDITIONAL INFORMATION.

GENERAL CONTRACTOR NOTES:

1. ALL MATERIALS SCHEDULE TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE.
2. OTHER THEN THE EXISTING DOCK LADDERS, NO MATERIALS WILL BE SALVAGED.
3. SHOULD DAMAGE OCCUR TO ANY EXISTING STRUCTURES OR FEATURES NOT IN THE PROJECT SCOPE, THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.
4. A UTILITY SURVEY WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE. THE GENERAL CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY EXISTING UTILITIES THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE. (TYPICAL FOR ALL EXISTING UTILITIES).

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 2 of 21

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

SIGNATURE: _____ DATE: _____

ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone (410) 316-7800
Fax (410) 316-7848

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RAS
CHECKED BY: RAS
MDE NO:

100% CONSTRUCTION DOCUMENTS

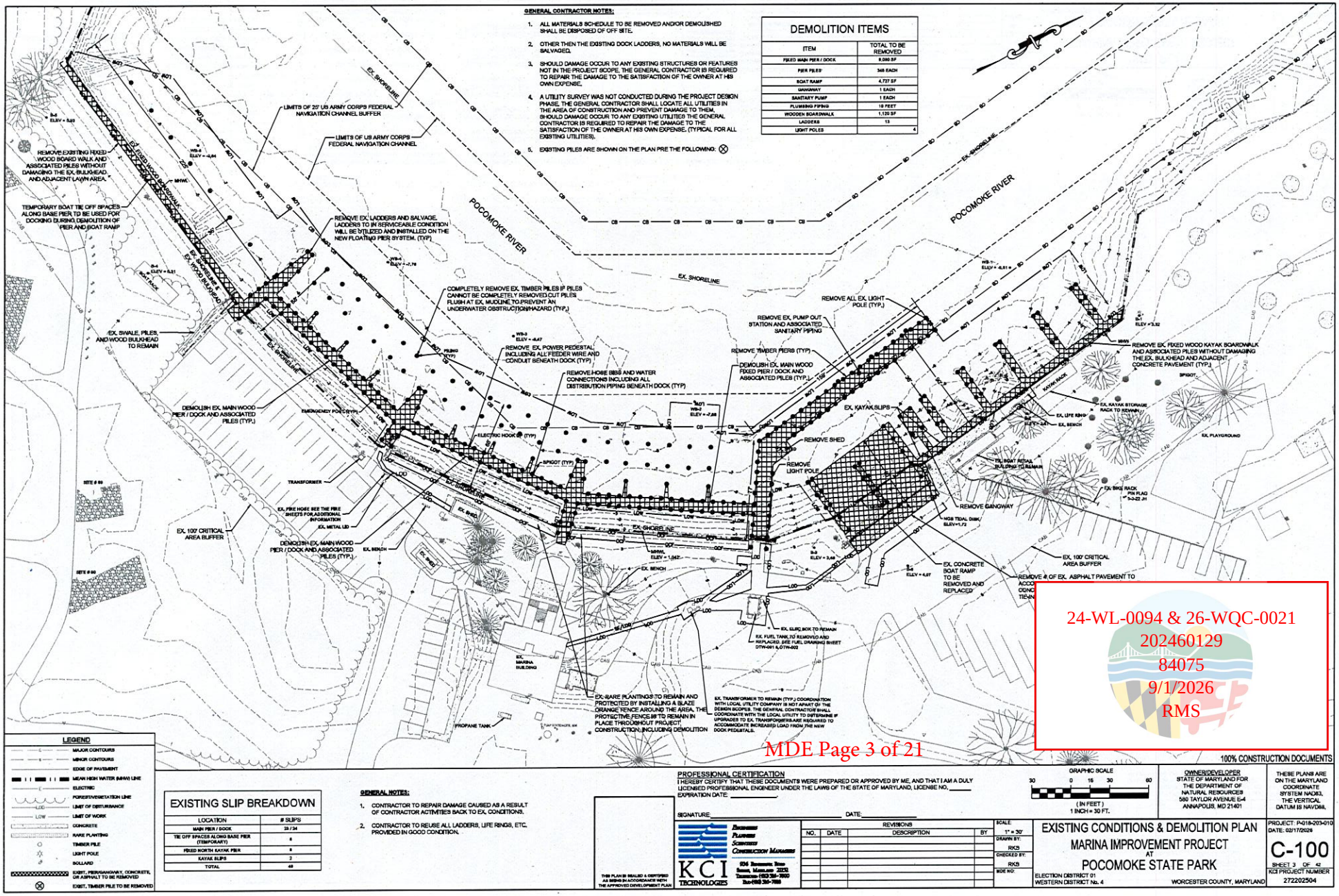
OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM (NAD83), THE VERTICAL DATUM IS NAVD88.

SEDIMENT CONTROL NOTES
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-001
SHEET 2 OF 42
KCI PROJECT NUMBER
272202504



EXISTING SLIP BREAKDOWN

LOCATION	# SLIPS
MAIN PIER / DOCK	28 / 34
TIE OFF SPACES ALONG BASE PIER (TEMPORARY)	6
FIXED NORTH KAYAK PIER	6
KAYAK SLIPS	2
TOTAL	48

GENERAL NOTES:

1. CONTRACTOR TO REPAIR DAMAGE CAUSED AS A RESULT OF CONTRACTOR ACTIVITIES BACK TO EX. CONDITIONS.
2. CONTRACTOR TO REUSE ALL LADDERS, LIFE RINGS, ETC. PROVIDED IN GOOD CONDITION.

THIS PLAN IS SEALED & CERTIFIED AS SIGNED IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____
SIGNATURE _____ DATE: _____

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ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
936 Ridgebrook Road, Sparks, Maryland 21152
Phone: (410) 316-7800 Fax: (410) 316-7899

REVISIONS
NO. | DATE | DESCRIPTION | BY

SCALE: 1" = 30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

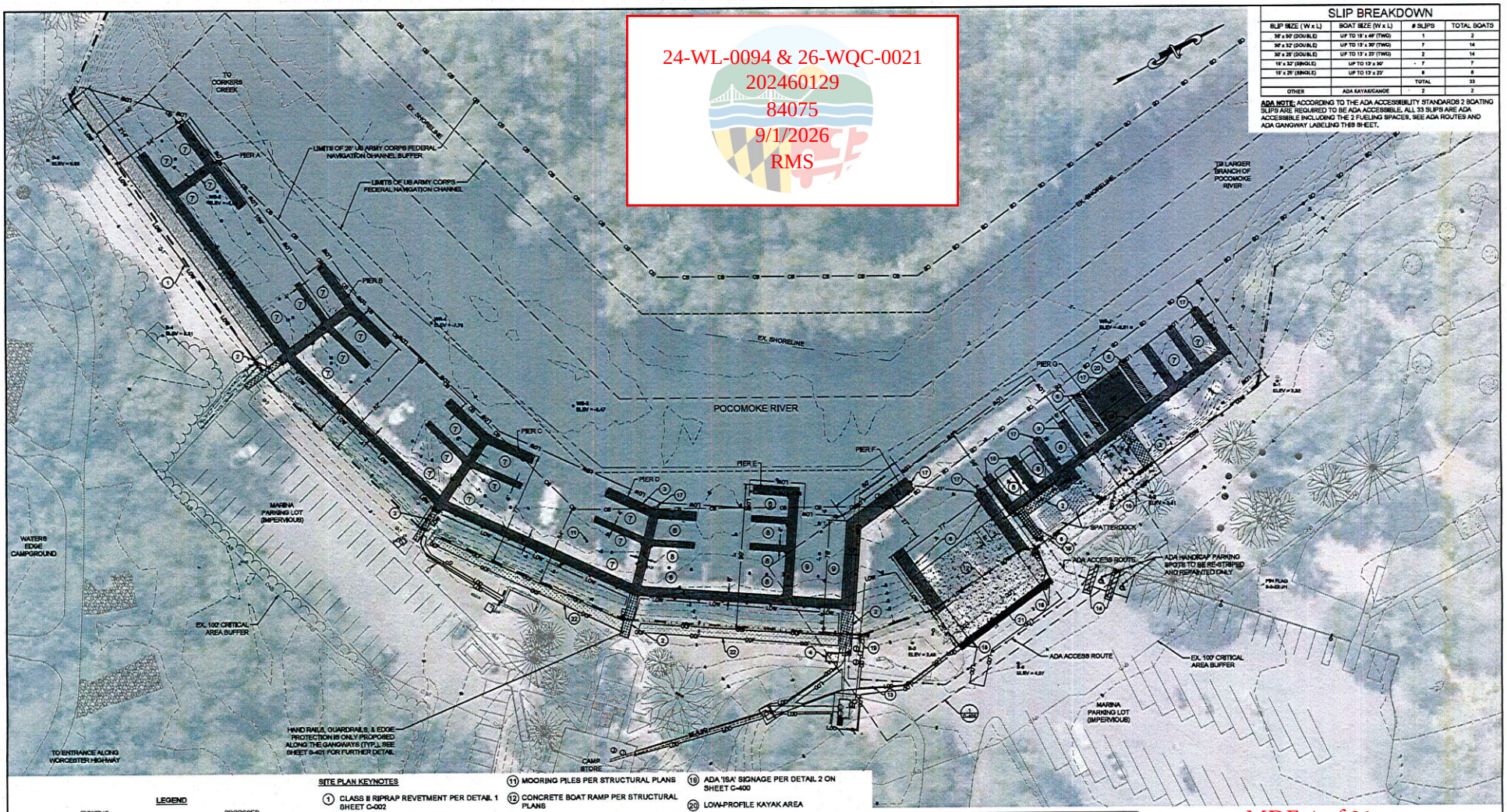
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

EXISTING CONDITIONS & DEMOLITION PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-100
SHEET 3 OF 42
KCI PROJECT NUMBER
272202504

24-WL-0094 & 26-WQC-0021
202460129
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9/1/2026
RMS

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



SLIP BREAKDOWN

SLIP SIZE (W x L)	BOAT SIZE (W x L)	# SLIPS	TOTAL BOATS
30' x 50' (DOUBLE)	UP TO 19' x 49' (TWO)	1	2
30' x 32' (DOUBLE)	UP TO 19' x 30' (TWO)	7	14
30' x 28' (DOUBLE)	UP TO 13' x 27' (TWO)	2	14
15' x 32' (SINGLE)	UP TO 13' x 30'	7	7
15' x 26' (SINGLE)	UP TO 13' x 23'	8	8
		TOTAL	33
OTHER	ADA KAYAK/CANOE	2	2

ADA NOTE: ACCORDING TO THE ADA ACCESSIBILITY STANDARDS 2 BOATING SLIPS ARE REQUIRED TO BE ADA ACCESSIBLE. ALL 33 SLIPS ARE ADA ACCESSIBLE INCLUDING THE 2 FUELING SPACES. SEE ADA ROUTES AND ADA GANGWAY LABELING THIS SHEET.

LEGEND

EXISTING	PROPOSED
MAJOR CONTOUR	MAJOR CONTOUR
MINOR CONTOUR	MINOR CONTOUR
EDGE OF PAVEMENT	RIGHT OF WAY
MEAN HIGH WATER (MHW) LINE	LOT LINE
ELECTRIC	LOD — LIMIT OF DISTURBANCE
FOREST/VEGETATION LINE	LOW — LIMIT OF WORK
LIMIT OF DISTURBANCE	TC — TURBIDITY CURTAIN
LIMIT OF WORK	OCF — ORANGE PROTECTION FENCE
CONCRETE	SF — SILT FENCE
RARE PLANTING	ADA ACCESSIBLE GANGWAY
TIMBER PILE	FLOATING DOCK
LIGHT POLE	KAYAK LAUNCH
BOLLARD	PRIED DOCK
EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED	RIPRAP REVETMENT
	ASPHALT PAVEMENT
	CONCRETE
	MOORING PILE

SITE PLAN KEYNOTES

1. CLASS II RIPRAP REVETMENT PER DETAIL 1 SHEET C-002
2. ADA ACCESSIBLE GANGWAY CONNECTION BETWEEN SHORELINE & FLOATING DOCK PER STRUCTURAL PLAN SHEET S-401
3. FLOATING DOCK PER STRUCTURAL PLANS
4. 8' X 5' CONCRETE FISHING CLEANING PAD
5. *BOARDSAFE* ONE-WAY KAYAK LAUNCH PER STRUCTURAL PLANS
6. FIXED DOCK PER STRUCTURAL PLANS
7. 15 FT WIDE BY 32 FT LONG BOAT SLIP
8. 15 FT WIDE BY 25 FT LONG BOAT SLIP
9. 17.5FT WIDE BY 57 FT LONG BOAT SLIP
10. 2 MECHANICAL BOAT LIFTS FOR PARK & NRP FOR RESCUE BOAT PER STRUCTURAL PLANS
11. MOORING PILES PER STRUCTURAL PLANS
12. CONCRETE BOAT RAMP PER STRUCTURAL PLANS
13. SEE MEP PLANS FOR NEW UTILITY CONNECTIONS
14. RE-STRIPE AND RE-PAINT (ONLY) ADA ACCESSIBLE PARKING SPOTS
15. EXTEND EXISTING SIDEWALK TO NEW GANGWAY
16. PROVIDE TRANSITION PLATE THRESHOLD ON KAYAK LANDING SEE SHEET S-001 FOR MORE DETAIL
17. LADDERS (CONTRACTOR SHALL REPURPOSE ALL LADDERS, LIFE RINGS, ETC. PROVIDED IN GOOD CONDITION)
18. YELLOW SLEEVE WITH RED REFLECTOR BOLLARDS PER DETAIL ON SHEET C-400
18. ADA 'ISA' SIGNAGE PER DETAIL 2 ON SHEET C-400
20. LOW-PROFILE KAYAK AREA
21. ASPHALT TO BE REMOVED AND REPLACED
22. BLAZE ORANGE SAFETY FENCING TO REMAIN THROUGHOUT CONSTRUCTION TO PROVIDE PROTECTION OF RARE PLANTINGS

SITE DATA

EXISTING IMPERVIOUS (WITHIN LOD ABOVE MHW)	4,226 SF
PROPOSED IMPERVIOUS (WITHIN LOD ABOVE MHW)	297 SF
TOTAL LOD (ALL WITHIN CRITICAL AREA BUFFER ABOVE MHW)	4,949 SF
LOW	86,110 SF

MDE 4 of 21

100% CONSTRUCTION DOCUMENTS

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

SIGNATURE_____ DATE:_____

THIS PLAN IS VALID & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7898

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

SITE PLAN
MARINA IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

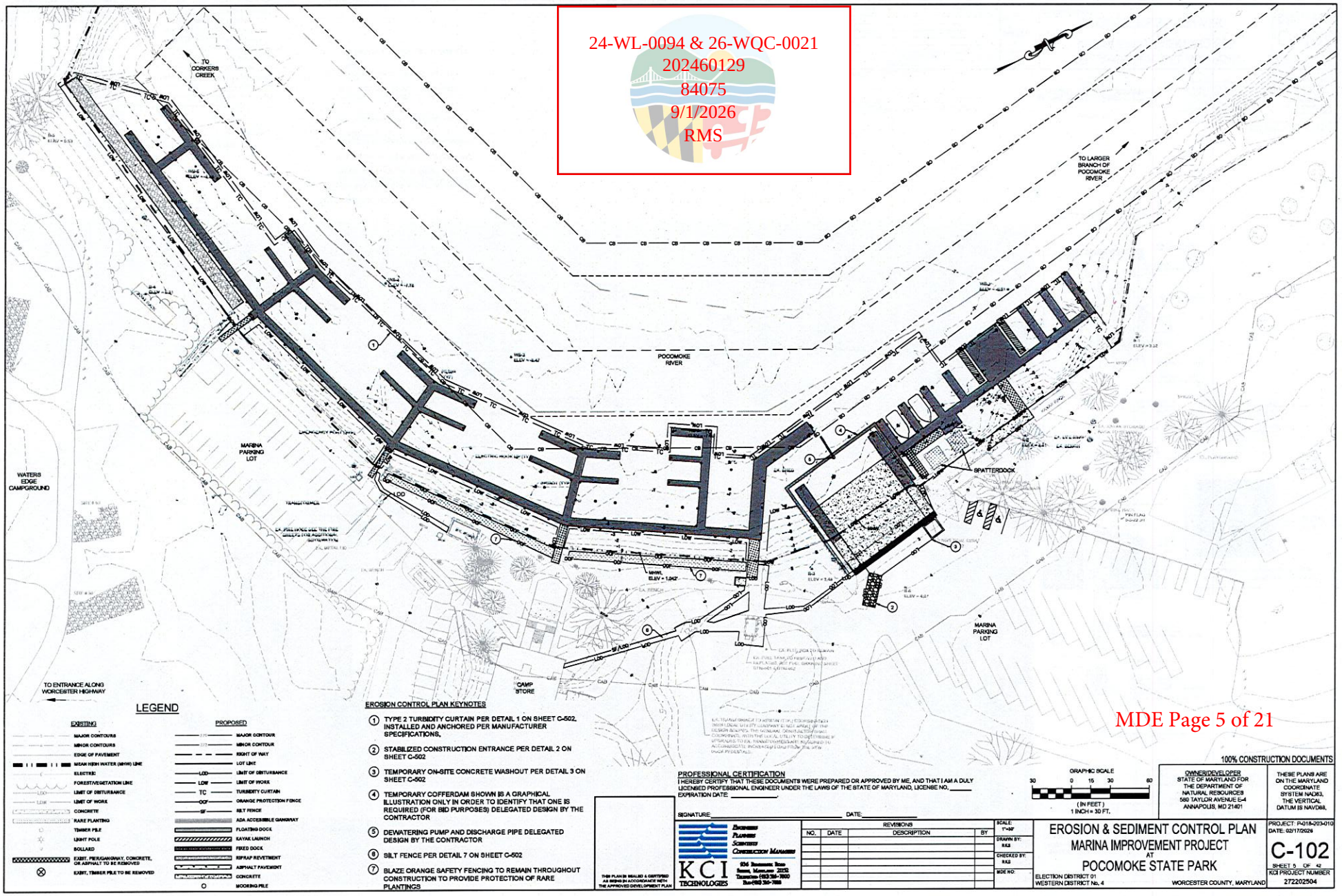
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026

C-101
SHEET 4 OF 42

KCI PROJECT NUMBER
272202504

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



LEGEND

EXISTING	PROPOSED
MAJOR CONTOURS	MAJOR CONTOUR
MINOR CONTOURS	MINOR CONTOUR
EDGE OF PAVEMENT	RIGHT OF WAY
MEAN HIGH WATER (MHW) LINE	LOT LINE
ELECTRIC	LOD — LIMIT OF DISTURBANCE
FOREST/VEGETATION LINE	LOW — LIMIT OF WORK
LIMIT OF DISTURBANCE	TC — TURBIDITY CURTAIN
LIMIT OF WORK	OCF — ORANGE PROTECTION FENCE
CONCRETE	SF — SILT FENCE
RARE PLANTING	ADA ACCESSIBLE GANGWAY
TIMBER PILE	FLOATING DOCK
LIGHT POLE	KAYAK LAUNCH
BOLLARD	FIXED DOCK
EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED	RIPRAP REVETMENT
EXIST. TIMBER PILE TO BE REMOVED	ASPHALT PAVEMENT
	CONCRETE
	MOORING PILE

EROSION CONTROL PLAN KEYNOTES

1. TYPE 2 TURBIDITY CURTAIN PER DETAIL 1 ON SHEET C-502, INSTALLED AND ANCHORED PER MANUFACTURER SPECIFICATIONS.
2. STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2 ON SHEET C-502
3. TEMPORARY ON-SITE CONCRETE WASHOUT PER DETAIL 3 ON SHEET C-502
4. TEMPORARY COFFERDAM SHOWN IS A GRAPHICAL ILLUSTRATION ONLY IN ORDER TO IDENTIFY THAT ONE IS REQUIRED (FOR BID PURPOSES) DELEGATED DESIGN BY THE CONTRACTOR
5. DEWATERING PUMP AND DISCHARGE PIPE DELEGATED DESIGN BY THE CONTRACTOR
6. SILT FENCE PER DETAIL 7 ON SHEET C-502
7. BLAZE ORANGE SAFETY FENCING TO REMAIN THROUGHOUT CONSTRUCTION TO PROVIDE PROTECTION OF RARE PLANTINGS

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____, EXPIRATION DATE: _____.

SIGNATURE: _____ DATE: _____

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

KCI TECHNOLOGIES
ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
936 Industrial Road
Suite 300
Salisbury, Maryland 21804
Telephone: (410) 546-1500
Fax: (410) 546-7553

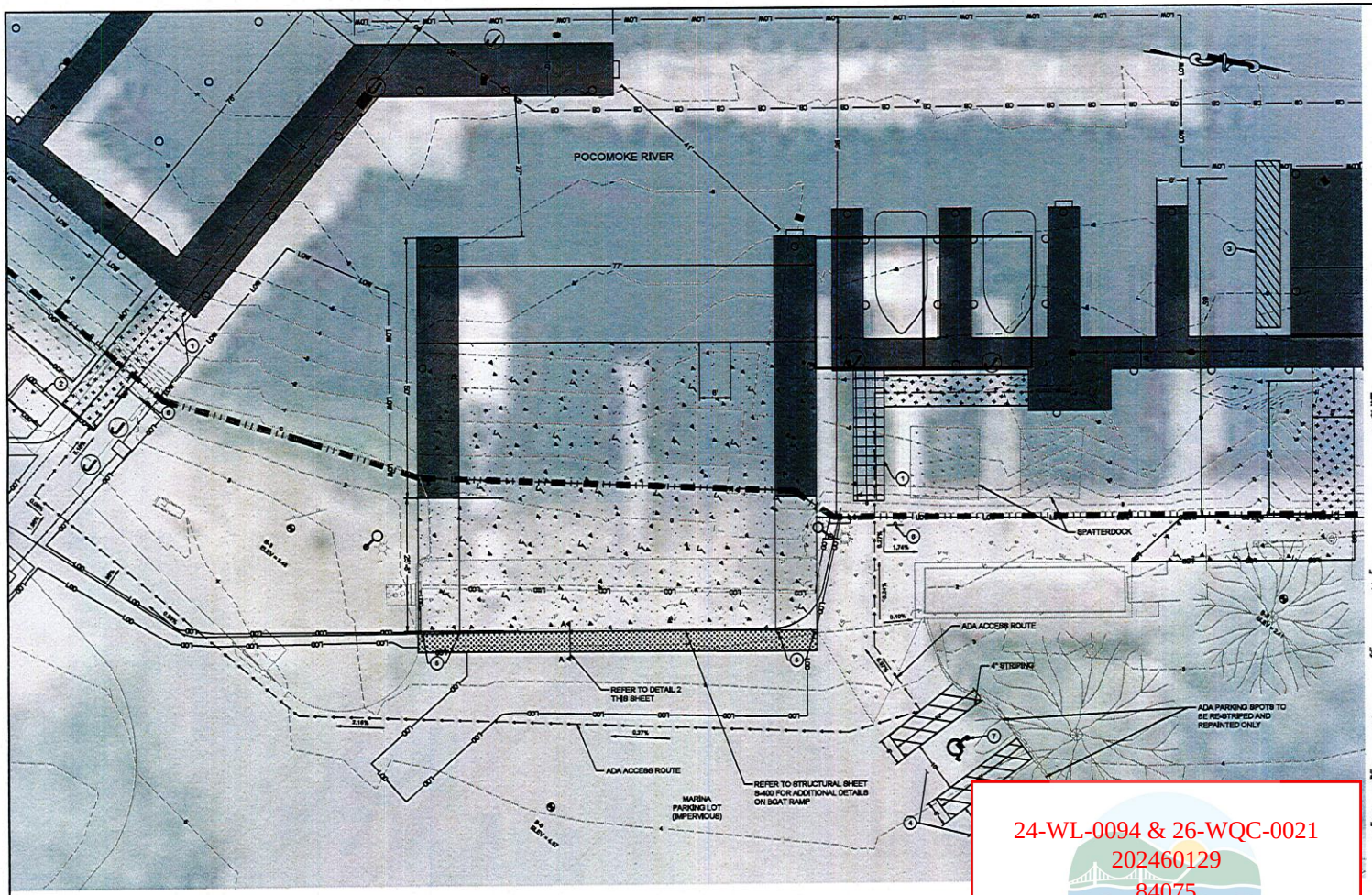
REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RKB
CHECKED BY: RKB
MDE NO:

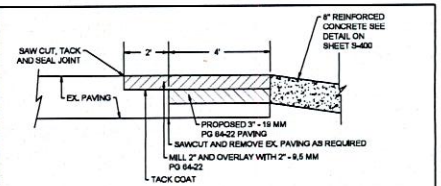
EROSION & SEDIMENT CONTROL PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

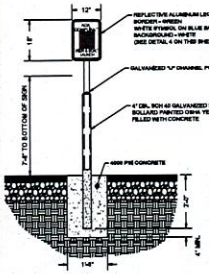
PROJECT: P-018-203-010
DATE: 02/17/2026
C-102
SHEET 5 OF 42
KCI PROJECT NUMBER
27220504



① ENLARGED ADA ACCESS PLAN
SCALE 1"=10'



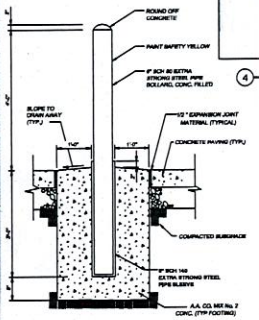
② PAVEMENT TIE-IN
SCALE: NOT TO SCALE



③ ADA SIGN
SCALE: NOT TO SCALE



④ ADA PARKING SYMBOL
SCALE: NOT TO SCALE



⑤ YELLOW BOLLARD
SCALE: NOT TO SCALE

LEGEND

EXISTING		PROPOSED	
	MAJOR CONTOURS		MAJOR CONTOUR
	MINOR CONTOURS		MINOR CONTOUR
	EDGE OF PAVEMENT		RIGHT OF WAY
	MEAN HIGH WATER (MHW) LINE		LOT LINE
	ELECTRIC	LOD	LIMIT OF DISTURBANCE
	FOREST/VEGETATION LINE	LOW	LIMIT OF WORK
LOD	LIMIT OF DISTURBANCE	TC	TURBIDITY CURTAIN
LOW	LIMIT OF WORK	OCF	ORANGE PROTECTION FENCE
	CONCRETE	SF	SILT FENCE
	RARE PLANTING		ADA ACCESSIBLE GANGWAY
	TIMBER PILE		FLOATING DOCK
	LIGHT POLE		KAYAK LAUNCH
	BOLLARD		FIXED DOCK
	EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED		RIPRAP REVETMENT
			ASPHALT PAVEMENT

ADA PLAN KEYNOTES

1. ADA ACCESSIBLE GANGWAY CONNECTION BETWEEN SHORELINE & FLOATING DOCK PER STRUCTURAL PLAN SHEET S-401
2. 8' X 5' CONCRETE FISHING CLEANING PAD
3. *BOARDSAFE* ONE-WAY KAYAK LAUNCH PER STRUCTURAL PLANS
4. RE-STRIPE AND RE-PAINT (ONLY) ADA ACCESSIBLE PARKING SPOTS
5. YELLOW SLEEVE WITH RED REFLECTOR BOLLARDS PER DETAIL 3 THIS SHEET
6. ADA 'ISA' SIGNAGE PER DETAIL 1 THIS SHEET
7. ADA PARKING SYMBOL SEE THIS SHEET

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 6 of 21

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

SIGNATURE: _____ DATE: _____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7898

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=10'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 INCH = 10 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

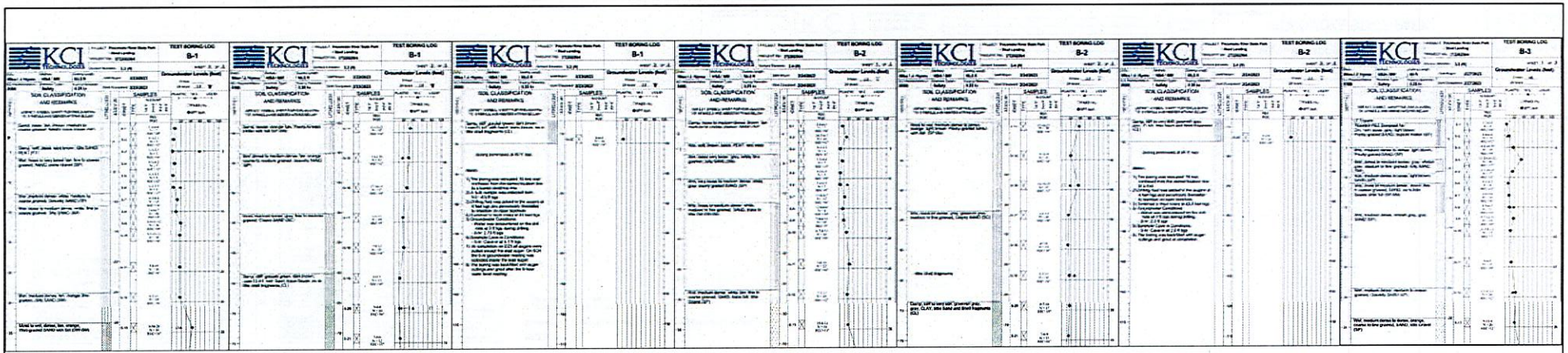
100% CONSTRUCTION DOCUMENTS

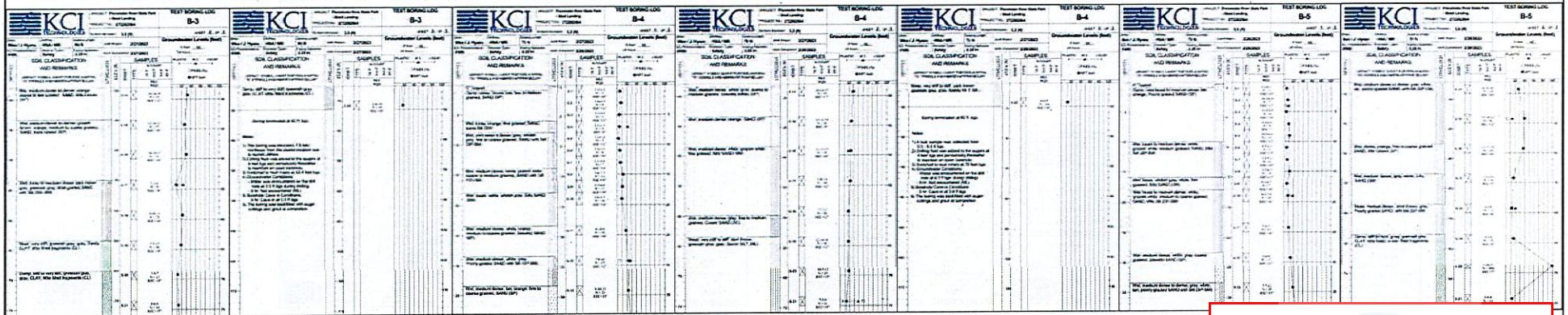
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

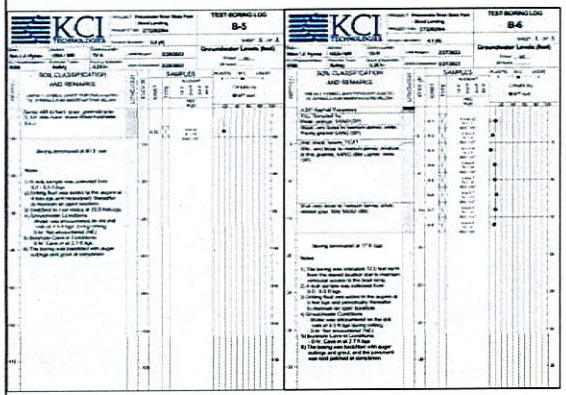
ENLARGED PARCEL ADA PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

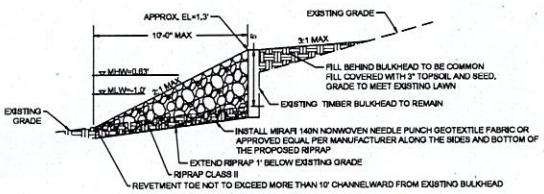
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-400
SHEET 8 OF 42
KCI PROJECT NUMBER
272202504









1 CLASS II RIPRAP REVETMENT
SCALE: 1"=5'

NOTES:

BORINGS ARE LOCATED ON SHEET C-100 AND ARE DESIGNATED AS FOLLOWS:

- WB-XX: WATER BORINGS
- B-XX: LAND BORINGS

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

PROFESSIONAL CERTIFICATION

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SIGNATURE: _____ DATE: _____

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KCI TECHNOLOGIES
ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83. THE VERTICAL DATUM IS NAVD88.

SITE DETAILS
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

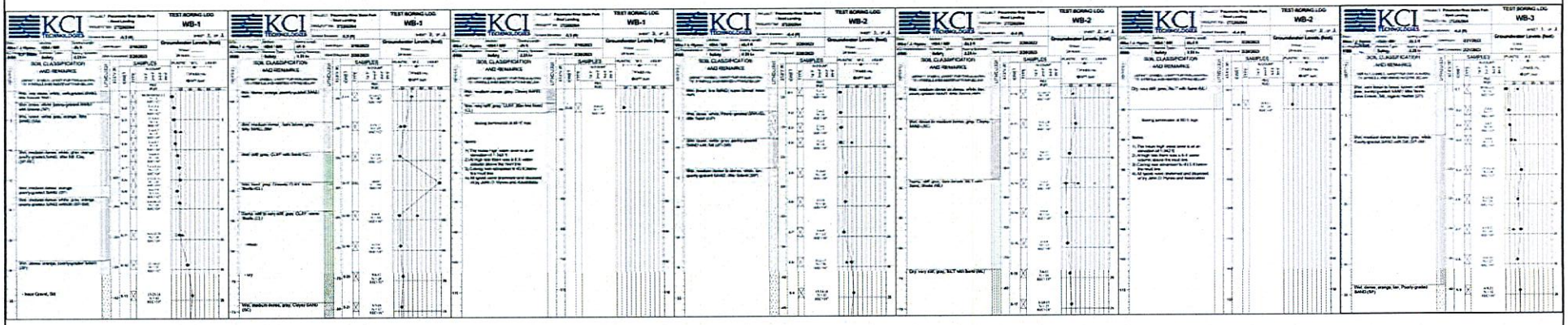
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

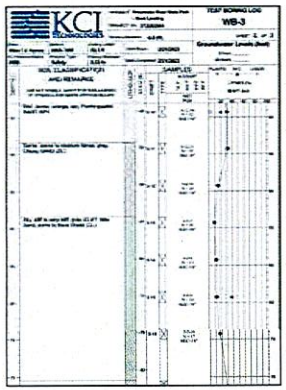
PROJECT: P-018-203-010
DATE: 02/17/2026

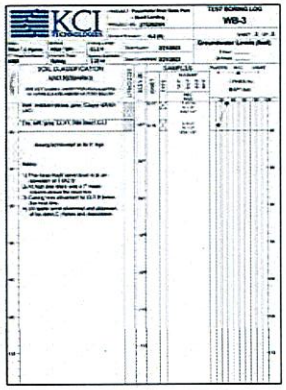
C-500

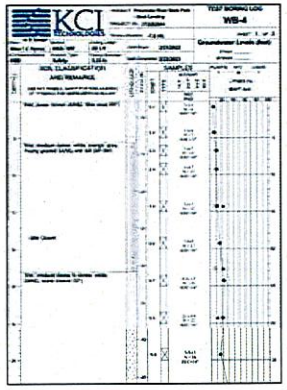
SHEET 7 OF 42

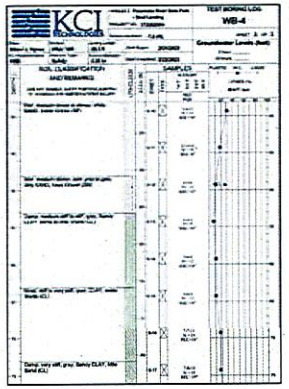
KCI PROJECT NUMBER
272202504

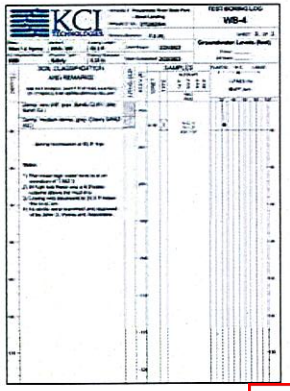


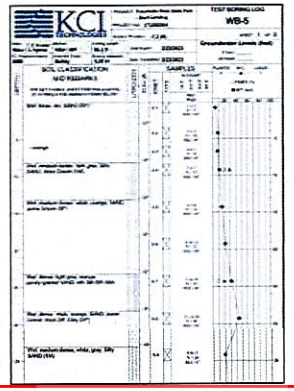


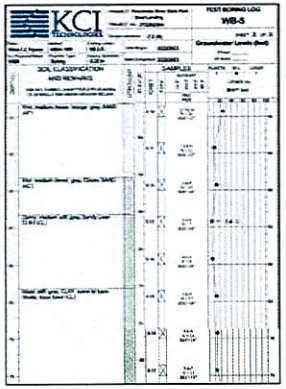


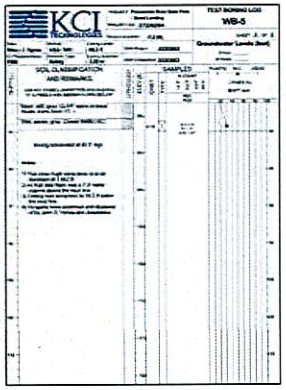












NOTES:

BORINGS ARE LOCATED ON SHEET C-100 AND ARE DESIGNATED AS FOLLOWS:

- WB-XX; WATER BORINGS
- B-XX; LAND BORINGS

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION

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SIGNATURE: _____ DATE: _____

THIS PLAN IS INVALID & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SURVEYORS
CONSTRUCTION MANAGERS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: KKS
CHECKED BY: KKS
MDE NO:

MDE Page 8 of 21

OWNER/DEVELOPER
STATE OF MARYLAND FOR
THE DEPARTMENT OF
NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

SITE DETAILS
MARINA IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

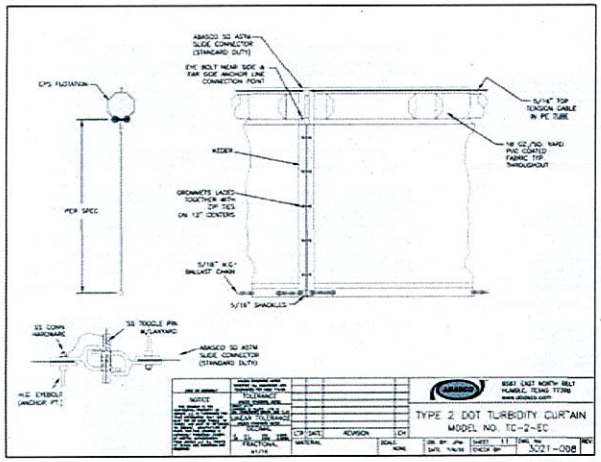
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026

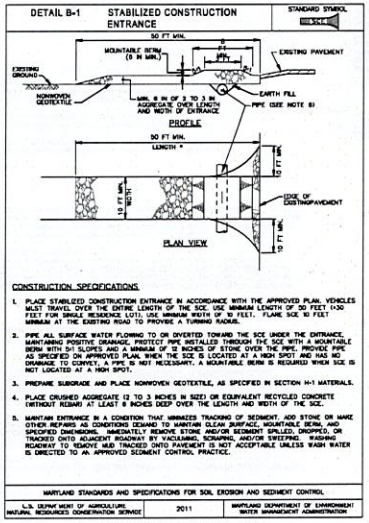
C-501

SHEET 8 OF 42

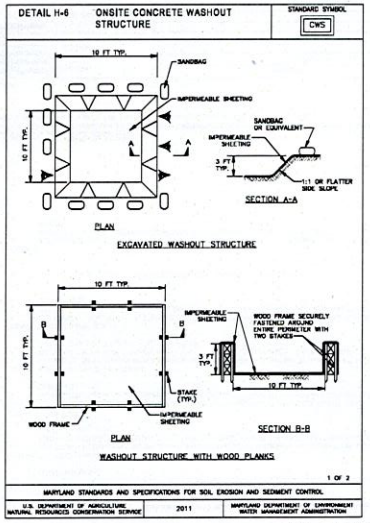
KCI PROJECT NUMBER
272202504



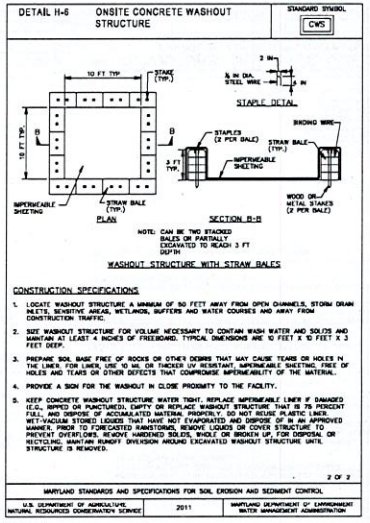
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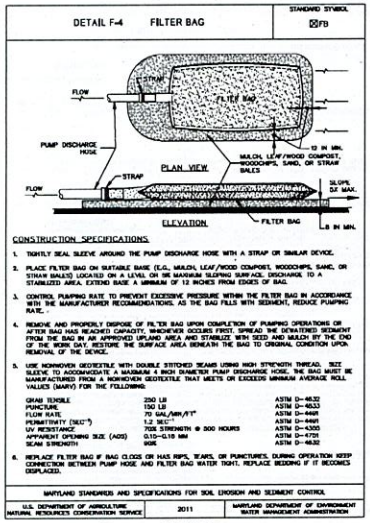


2 STABILIZED CONSTRUCTION ENTRANCE

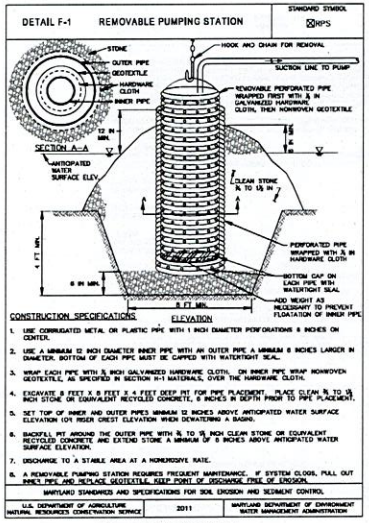


3 ONSITE CONCRETE WASHOUT

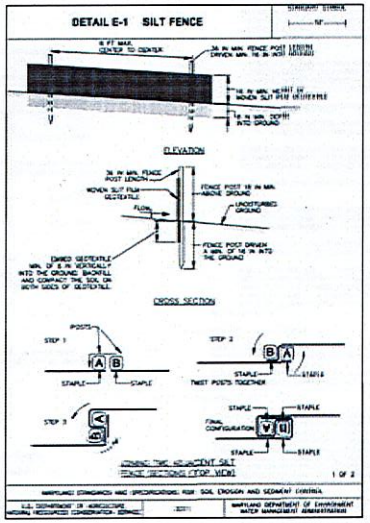


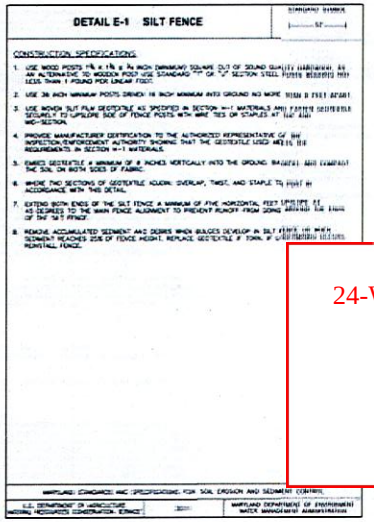


5 FILTER BAG



6 DEWATERING PUMP





7 SILT FENCE

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
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EXPIRATION DATE: _____
SIGNATURE: _____ DATE: _____

MDE Page 9 of 21

KCI TECHNOLOGIES
Engineers Planners Surveyors Construction Managers

REVISIONS			
NO.	DATE	DESCRIPTION	BY

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

SCALE: 1"=40'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

SEDIMENT CONTROL DETAILS
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-502
SHEET 9 OF 42
KCI PROJECT NUMBER 272202504

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

A. SEE CIVIL DRAWINGS G-100 FOR ELEVATIONS SET AT MEAN LOW WATER.

B. ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS RELATING TO THE WORK SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ORDERING MATERIALS AND STARTING THE WORK.

C. STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF THE ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC)2021.

D. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS, INCLUDING THE FEDERAL DEPARTMENT OF GENERAL SERVICES, NRG, DNR, STANDARD SPECIFICATIONS FOR CONSTRUCTION.

E. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED AND INCLUDED IN THE PROJECT.

F. IN THE CASE OF CONFLICTS BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

G. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

H. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS/MEASURES TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM DAMAGES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES THAT MAY OCCUR DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DONE TO EXISTING STRUCTURES, UTILITIES AND ROADWAYS THAT ARE NOT PART OF THIS SPECIFIC PROJECT, ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

I. JOB SAFETY, CONSTRUCTION PROCEDURES AND CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE TO ENSURE JOB-SITE SAFETY. ALL PROPOSED STAGING AREAS SHALL BE COORDINATED WITH THE ENGINEER AND OWNER BEFORE STARTING THE WORK.

J. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE, AND MUNICIPAL REGULATIONS. ENVIRONMENTAL CONTROLS SHALL INCLUDE BUT NOT BE LIMITED TO TURBIDITY, DUST AND DEBRIS.

K. STORAGE, FUELING AND LUBRICATION OF EQUIPMENT AND MOTORIZED VEHICLES SHALL BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILL AND EVAPORATION. FUEL, LUBRICANTS AND OIL SHALL BE MANAGED AND STORED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. THERE SHALL BE NO STORAGE OF FUEL ON THE PROJECT SITE. FUEL MUST BE BROUGHT TO THE SITE AS NEEDED.

L. INSPECTION OF THE COMPLETED WORK WILL BE PERFORMED FOLLOWING NOTIFICATION FROM THE CONTRACTOR THAT A SPECIFIED PORTION OF THE WORK HAS BEEN COMPLETED.

M. CONTRACTOR MUST DISPLAY ON SITE THAT APPROPRIATE CONSTRUCTION PLACARDS AS REQUIRED BY THE PERMITTING AGENCIES HAVING JURISDICTION THROUGHOUT THE PROJECT.

BUILDING CODES:

A. THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND ALL SUBSEQUENT SUPPLEMENTS.
B. GOVERNING LOCAL BUILDING CODES AND AMENDMENTS.

EXISTING STRUCTURES:

A. EXISTING PLANS:

1. DETAIL 8, DIMENSIONS, AND ELEVATIONS INDICATE EXISTING CONDITIONS AS KNOWN (SHOWN ON CONSTRUCTION DOCUMENTS DATED 1/12/66 BY GEORGE, MILLS & BUHR ARCHITECTS & ENGINEERS)
2. EXISTING INFORMATION SHOWN ON NEW CONSTRUCTION DOCUMENTS IS NOT INTENDED TO BE "AS BUILT" INFORMATION AND THE ACTUAL CONSTRUCTION MAY DIFFER FROM THAT SHOWN.

B. CONTRACTOR RESPONSIBILITIES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MINOR VARIATIONS CAN BE EXPECTED AND ANY REQUIRED CHANGES TO THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION. THE DESIGN OF ALL TEMPORARY BRACING AND SHORING IS THE CONTRACTOR'S RESPONSIBILITY.
3. THE CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF AREAS EXHIBITING DISTRESS OR FAILURE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REPAIRS FOR ANY DAMAGE TO THE EXISTING SITE THAT RESULTS DURING CONSTRUCTION.

SPECIAL INSPECTIONS

A. ALL SPECIAL INSPECTIONS SHOULD ABIDE BY IBC 2021 AND ALL SUBSEQUENT CODES TO ENSURE PROPER QUALITY CONTROL DURING CONSTRUCTION.

MISCELLANEOUS

A. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY UTILITIES, THE CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.

B. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.

C. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS.

D. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.

E. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.

F. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

G. CONTRACT SPECIFICATIONS SUPERCEED ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS.

CAST IN PLACE CONCRETE:

A. CODES AND STANDARDS:

1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
2. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
3. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
4. ACI 300 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING"
5. ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING"
6. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"
7. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
8. CRSI "MANUAL OF STANDARD PRACTICE"

B. REINFORCING MATERIALS:

1.	STEEL REINFORCEMENT:	ASTM A 615, GRADE 60, DEFORMED
2.	PLAIN-STEEL WELDED WIRE REINFORCEMENT:	ASTM A 185

C. CONCRETE MATERIALS:

1.	PORTLAND CEMENT:	ASTM C 150, TYPE I/II
2.	FLY ASH:	ASTM C 618, CLASS F
3.	GROUND GRANULATED BLAST FURNACE SLAG:	ASTM C 989, GRADE 120
4.	NORMAL WEIGHT AGGREGATES:	ASTM C 33
	a. MAXIMUM COARSE AGGREGATE SIZE:	3/4 INCH NOMINAL
5.	WATER:	ASTM C 94, POTABLE

D. ADMIXTURES:

1.	AIR ENTRAINMENT:	ASTM C 260
2.	WATER-REDUCER:	ASTM C 494
3.	SILICA FUME:	ASTM C 1240
4.	NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED.	

E. CONCRETE MIXTURES:

1. FLY ASH, POZZOLAN, GROUND GRANULATED BLAST FURNACE SLAG, AND SILICA FUME MAY BE USED AS NEEDED TO REDUCE THE TOTAL AMOUNT OF PORTLAND CEMENT WHICH WOULD OTHERWISE BE USED BUT NOT MORE THAN 40 PERCENT.
   a. MAXIMUM SUBSTITUTION OF FLY ASH SHALL BE 20 PERCENT.
   b. MAXIMUM SUBSTITUTION OF SILICA FUME SHALL BE 10 PERCENT.

F. PROPORTION NORMAL WEIGHT CONCRETE MIXES AS FOLLOWS:

LOCATION	28 DAY STRENGTH (f'c)	WATER-CEMENTIOUS RATIO	SLUMP LIMIT	AIR CONTENT
FOUNDATIONS, WALLS BELOW GRADE	3600 PSI	0.55	4" ± 1"	4.5% ± 1.5%
SLABS ON GRADE (BOAT RAMP)	5000 PSI	0.40	4" ± 1"	5.0% ± 1.5%
SLABS ON GRADE (OTHER STRUCTURES)	4000 PSI	0.40	4" ± 1"	5.0% ± 1.5%

G. ALL CONCRETE MIX DESIGNS, INCLUDING CEMENT CONTENT, WATER CEMENT RATIO, FINE AND COARSE AGGREGATE CONTENT AND ALL ADMIXTURES, SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO PLACING FIRST CONCRETE.

H. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY THE TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE PLACING OF ANY CONCRETE.

I. THE CONCRETE STRUCTURE SHALL NOT SUPPORT THE DESIGN LIVE LOAD FOR A MINIMUM OF 28 DAYS AND ALL SHORING AND RESHORING REQUIRED TO SUPPORT THE CONCRETE STRUCTURE DURING CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR. SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF MARYLAND, SHALL BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL INDICATE THE TYPE, EXTENT, SIZE, AND LOCATION OF ALL SHORING AND RESHORING AS WELL AS THE SEQUENCE OF CONSTRUCTION.

J. MINIMUM COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:

FOUNDATIONS	3 INCHES
SLABS ON GRADE	2 INCHES (TOP)

FLOATING PIER DESIGN AND LOAD CONDITIONS:

A. VERTICAL LOADS:

1. DEAD LOADS SHALL CONSIST OF THE ENTIRE WEIGHT OF THE FLOATING STRUCTURE, INCLUDING UTILITIES, RAMPS, DECK BOXES AND OTHER ACCESSORIES.
2. DECK SURFACE AND STRUCTURAL FRAME LIVE LOAD SHALL BE EQUAL TO 50 PSF APPLIED TO THE FULL SURFACE AREA OF THE DECK.
3. BRIDGES AND RAMPS FOUR FEET (4') IN WIDTH OR LESS SHALL BE DESIGNED FOR 40 PSF APPLIED TO THE FULL SURFACE AREA AND 50 PSF FOR WIDTHS OVER FOUR FEET. BRIDGE AND RAMP HANDRAILS SHALL BE DESIGNED FOR A 200 POUND LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ALONG THE HANDRAIL.
4. FLOTATION SHALL BE DESIGNED TO SUPPORT THE DEAD LOAD PLUS 30 PSF LIVE LOAD APPLIED TO THE FULL AREA OF THE DECK SURFACE.
5. FREEBOARD UNDER DEAD LOAD CONDITIONS ONLY SHALL EQUAL 20" +/- 1". FREEBOARD UNDER COMBINED DEAD LOAD AND 30 LBS. PER SQUARE FOOT UNIFORMLY DISTRIBUTED LIVE LOAD SHALL NOT BE LESS THAN 6".
6. CONCENTRATED LIVE LOAD: 400 LBS. AT ANY ONE POINT ON THE DECK SHALL NOT TILT THE DOCK MORE THAN SIX DEGREES FROM HORIZONTAL.

B. HORIZONTAL LOADS:

1. A UNIFORM HORIZONTAL WIND LOADING FROM ANY DIRECTION SHALL BE CALCULATED AT 15 PSF ON ALL PROJECTED SURFACES, ASSUMING 100% BOAT OCCUPANCY. CRAFT PROFILE HEIGHTS SHALL BE DETERMINED FROM FIGURE 4-9, PAGE 106, ASCE REPORT NO. 60 REVISED. FULL WIND LOAD IS TO BE APPLIED TO ALL UNSHIELDED DOCK AND BOAT PROFILES AND 10% OF THE WIND LOAD IS TO BE APPLIED TO EACH SHIELDED BOAT PROFILE.
2. A HORIZONTAL LOAD DUE TO IMPACT ON A FINGER DOCK SHALL BE THE RESULT OF THE LARGEST BERTHED CRAFT NORMALLY USING THE ADJACENT SLIP STRIKING THE END OF THE FINGER DOCK 10 DEGREES OFF CENTER LINE. FOR PURPOSES OF CALCULATIONS, THE WEIGHT OF THE CRAFT SHALL BE 12 TIMES THE FINGER LENGTH SQUARED (12L), THE CRAFT SHALL BE CONSIDERED MOVING AT A SPEED OF 3 FPS.

BRIEF STRUCTURAL DESIGN NARRATIVE:

A. DESIGN ANCHOR PILES TO ACCOMMODATE FLOATING DOCK LAYOUT, SMALL ADA FIXED WOOD APPROACH PIER, AND TWO (2) NRP BOAT LIFTS.

B. PROVIDE DESIGN CRITERIA (PERFORMANCE CRITERIA) FOR DELEGATED DESIGN ITEMS SUCH AS FLOATING DOCKS, DOCK COMPONENETS, GANGWAYS, AND HINGES.

C. PROVIDE DESIGNS FOR CONCRETE GANGWAY ABUTMENTS FOR SUPPORT ALONG SHORELINE, CONCRETE RAMP BOAT LAUNCHING PAD, SUBSEQUENT BOARDING ACCESS ABUTMENTS, AND CONCRETE PAD FOR NEW FISH CLEANING STATION.

FLOATING PIER DESIGN AND LOAD CRITERIA:

A. WORK INCLUDED

1. DELEGATED DESIGN; COMPLETE PRE-ENGINEERED FLOATING DOCK SYSTEM, ACCESS RAMPS AND ANCHORAGE.

B. APPLICABLE STANDARDS

1. NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION"
2. WEST COAST LUMBER INSPECTION BUREAU: GRADING AND DRESSING RULES FOR LUMBER
3. AMERICAN WOOD PRESERVERS' ASSOCIATIONS STANDARDS C1 AND C18
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION
   a. AMERICAN SOCIETY FOR TESTING MATERIALS:
   b. A36 SPECIFICATIONS FOR STRUCTURAL STEEL.
   c. A123 SPECIFICATION FOR ZINC COATINGS (HOT-DIP) ON IRON AND STEEL PRODUCTS
   d. A153 SPECIFICATION FOR ZINC COATINGS (HOT-DIP) ON IRON AND STEEL HARDWARE

C. EXPERIENCE

1. THE FLOATING DOCK SYSTEM AND ACCESS RAMPS SHALL BE MANUFACTURED BY MEECO SULLIVAN, LLC, P.O. BOX 639, 3 CHANCELLOR LANE, WARWICK, NY, 845-7377, OR AN APPROVED EQUAL HAVING A MINIMUM OF TEN YEARS' EXPERIENCE IN THE MANUFACTURING AND INSTALLATION OF FLOATING DOCK SYSTEMS, THAT ARE THE SAME TYPE AS PROPOSED FOR THIS PROJECT, ON AT LEAST THREE OTHER INSTALLATIONS. DOCKS SHALL BE COMPLETELY FABRICATED IN THE MANUFACTURERS FACILITY AND SHIPPED TO SITE COMPLETE WITH DECKING AND FLOTATION ATTACHED READY FOR OFF-LOAD DIRECT INTO WATER. KNOCKED DOWN FRAMING SYSTEMS ASSEMBLED AT SITE WILL NOT BE ALLOWED, PANELIZED DECKING SYSTEMS WILL NOT BE ALLOWED.

D. SUBMITTALS

1. A GENERAL LAYOUT DRAWING OF THE PROPOSED FLOATING STRUCTURES GIVING ALL DIMENSIONS, CLEARANCES AND ANCHORAGE LOCATIONS.
2. GENERAL CONSTRUCTION DRAWINGS SHOWING (1) MAIN WALKWAY SECTION & (1) TYPICAL FINGER PIER ALONG WITH ANY MISCELLANEOUS DETAILS RELATIVE TO THE PROJECT.

G. MATERIALS AND CONSTRUCTION

1. WOOD FRAMING:
   a. ALL STRUCTURAL BEAMS, BRACING AND DECK SUPPORTS TO BE SOUTHERN YELLOW PINE GRADE #1 OR BETTER EXTERIOR AND GRADE #2 OR BETTER INTERIOR, IN ACCORDANCE WITH THE RULES OF THE WEST COAST BUREAU OF TIMBER GRADE AND INSPECTION FOR SOUTHERN YELLOW PINE. INDIVIDUAL MEMBERS SHALL BE MINIMUM 2" X 6" FOR HORIZONTAL MEMBERS AND 2" X 8" FOR VERTICAL MEMBERS.
   b. ALL DECKING TO BE SOUTHERN YELLOW PINE 2" X 6" GRADE # 1 OR BETTER, PRESSURE TREATMENT FOR USE CATEGORY 4B, 4C IN ACCORDANCE WITH AWPA USE CATEGORY SYSTEM.
   c. ALL FRAMING LUMBER TO BE PRESSURE TREATED TO 0.6 PCF RETENTION WITH CHROMATED COPPER ARSENATE (CCA). TREATMENT SHALL BE FULL LENGTH UNDER PRESSURE BY THE EMPTY-CELL OR FULL-CELL PROCESS IN ACCORDANCE WITH AWPA STANDARDS C1 AND C18 DECKING.
   d. ALL LUMBER TO BE KILN DRIED AFTER TREATMENT.
   e. ALL LUMBER SHALL BE SOUND, WELL SEASONED, AND STRAIGHT GRAINED, FREE FROM SHAKES AND LARGE OR LOOSE KNOTS AND SHALL HAVE NO DEFECTS WHICH WILL IMPAIR ITS STRENGTH OR DURABILITY FOR THE PURPOSE INTENDED.
   f. ALL STRUCTURAL SIDE BEAMS TO BE OF MECHANICAL LAMINATED CONSTRUCTION, MINIMUM 3 MEMBERS, MINIMUM SIZE OF EACH MEMBER TO BE 2" X 8" WITH A 2" X 10" OUTER MEMBER.
   g. ALL LUMBER TO BE SURFACED FOUR SIDES.
   h. FOR TORSIONAL RIGIDITY ON MAIN WALKWAYS A COMBINATION OF HORIZONTALLY LAID TIMBER CROSS MEMBERS AND DIAGONALS WITH INTERIOR STEEL CROSS BRACKETS SHALL BE UTILIZED. FINGER DOCKS SHALL HAVE MINIMUM 4" X 2" TUBE CROSS MEMBERS WITH MINIMUM 2" X 2" STEEL TUBE DIAGONAL MEMBERS IN ADDITION TO HORIZONTAL TIMBER BRACING USED ON MAIN WALKWAYS.
   i. SECTIONS TO BE FABRICATED IN FULL LENGTH WITH LONGITUDINAL SPLICING (MONOLITHIC REQUIRE AT MINIMUM (2) 2" X 4" X 8' LONG TIMBER SPLICE WITH INTERIOR BEAMS SPLICED WITH MINIMUM 2" X 8" X 8' TO GIVE ADEQUATE DEPTH TO UTILITY CHANNELS 2"x4" OR 4"x4" TIMBER MEMBERS WILL NOT BE ALLOWED IN CONSTRUCTION OF MAIN WALKWAYS.
2. FLOTATION:
   a. ALL UNITS WILL BE ROTATIONALLY MOLDED FOR SEAMLESS ONE PIECE CONSTRUCTION.
   b. ENCASEMENT SHALL BE MANUFACTURED FROM LINEAR VIRGIN POLYETHYLENE RESIN CONTAINING UV RAY INHIBITORS AND CARBON BLACK PIGMENT. NOMINAL WALL THICKNESS SHALL BE .150".
   c. FOAM CORE SHALL BE EXPANDED POLYSTYRENE FOAM WITH A MINIMUM OF 1.0 # PER CUBIC FOOT DENSITY.
3. FLOTATION PERFORMANCE:
   a. FLOTATION UNITS SHALL BE DESIGNED TO SIGNIFICANTLY MAINTAIN THE DESIRED BUOYANCY AND FREEBOARD EVEN IF PUNCTURED OR CRACKED. FLOTATION UNIT AND FRAME TO ACT AS ONE INTEGRAL UNIT.
4. STEEL COMPONENTS:
   a. ALL STRUCTURAL STEEL CONNECTORS, BRACKETS AND MISCELLANEOUS PARTS TO BE FABRICATED FROM ASTM A 36 GRADE STEEL, INSTALLED AND FASTENED IN FACTORY BEFORE SHIPPING.
   b. BOLTS, NUTS AND WASHERS:
   c. ALL BOLTS, NUTS AND WASHERS SHALL BE FABRICATED ACCORDING TO ASTM A 307 AND SHALL BE OF SUFFICIENT SIZE, SHAPE AND LENGTH FOR THEIR INTENDED USE. FLOTATION FASTENERS TO BE MINIMUM 1/2" DIAMETER.
5. FINISH OF STEEL AND BOLTS:
   a. ALL STRUCTURAL STEEL, ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE TO ASTM A 123. A MINIMUM COATING OF 2 OUNCES PER SQUARE FOOT SHALL BE APPLIED.
7. DECK
   a. ALL DECK SHALL BE 2" COMPOSITE DECK FOR THE FULL DOCK LENGTH.
8. CLEATS:
   a. ALL CLEATS SHALL BE 10", 12", OR 14" MALLEABLE CAST IRON, CONFORMING TO ASTM A 47. CLEATS SHALL BE FASTENED TO INTERIOR STEEL ANGLE WITH (2) 3/8" DIAMETER THROUGH BOLTS.

WOOD FRAMING - FIXED WOOD DOCK:

A. CODES AND STANDARDS:
1. "NATIONAL DESIGN SPECIFICATIONS" PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. NIST'S VOLUNTARY PRODUCT STANDARD DOC PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD"

B. AMERICAN WOOD PRESERVER'S ASSOCIATION (APWA) STANDARD

C. MATERIALS (UNADJUSTED VALUES FOR 12" DEPTH):
1. DIMENSION LUMBER: NO. 2 SOUTHERN PINE AT 19 PERCENT MOISTURE CONTENT OR APPROVED EQUAL

Fb	Fv	Fc perpendicular	Fc parallel	E min	E
975 PSI	175 PSI	565 PSI	1450 PSI	580 PSI	1600 KSI

2. PRESERVATIVE TREATMENT BY PRESSURE PROCESS (P.T.) LUMBER: AWPA U1
   a. EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND: USE CATEGORY UC3

D. SUBMITTALS:
1. WOOD PRESERVATIVE TREATMENT DATA, INCLUDING CERTIFICATION BY TREATING PLANT THAT MATERIALS COMPLY WITH REQUIREMENTS.
2. MATERIAL CERTIFICATES FOR LUMBER SPECIFIED TO COMPLY WITH MINIMUM ALLOWABLE UNIT STRESSES.

E. TECHNICAL DATA FOR FASTENERS, INCLUDING GAUGE, FINISH, AND STRUCTURAL LOAD CAPACITY.

F. FASTENERS
1. WHERE WOOD FRAMING IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR PRESSURE-PRESERVATIVE TREATED, PROVIDE STAINLESS STEEL FASTENERS.

G. CONNECTION OF ALL WOOD FRAMING SHALL MEET THE MINIMUM RECOMMENDED REQUIREMENTS PROVIDED IN THE FASTENING SCHEDULE OF THE ISC BUILDING CODE.

H. INSTALLATION:
1. WOOD BEAMS MADE UP OF THREE OR MORE MEMBERS SHALL BE BOLTED TOGETHER WITH TWO ROWS OF 1/2 INCH DIA. BOLTS SPACED AT 32 INCHES ON CENTER.
2. ALL WOOD MEMBERS BEARING DIRECTLY ON MASONRY OR CONCRETE SHALL HAVE A PRESERVATIVE PRESSURE TREATMENT.
   a. PROVIDE A MINIMUM 3" BEARING LENGTH OF ALL WOOD MEMBERS BEARING ON MASONRY OR CONCRETE.
3. PROVIDE SOLID BRIDGING AT 4'-0" ON CENTER BETWEEN FIRST THREE EXTERIOR FLOOR JOISTS WHERE FRAMING SPANS PARALLEL TO BASEMENT WALLS.
4. PROVIDE SOLID OR DIAGONAL BRIDGING BETWEEN ALL JOISTS AT BEARING LOCATIONS AND AT 8'-0" MAXIMUM BETWEEN SUPPORTS.
5. THE CONTRACTOR SHALL CUT OR NOTCH THE WOOD FRAMING ONLY AS SHOWN ON THE CONTRACT DRAWINGS OR MANUFACTURER SPECIFICATIONS FOR ENGINEERED WOOD PRODUCTS.
6. PROVIDE SOLID BLOCKING AT MAXIMUM SPACING OF 4'-0" OC, VERTICAL, FOR ALL WALL STUDS.

TIMBER PILES:

A. REFER TO "WOOD FRAMING" SECTION FOR APPLICABLE CODES AND STANDARDS.

B. REFER TO PROJECT GEOTECHNICAL REPORT BY KCI, INC, AND DATED 11/2023 FOR SITE PREPARATION AND RECOMMENDATIONS.

C. MATERIALS

1. ROUND TIMBER PILES: SOUTHERN PINE PILES CONFORMING TO ASTM D 25, UNUSED, CLEAN PEELED, UNIFORMLY TAPERED, ONE PIECE FROM BUTT TO TIP.

BUTT DIAMETER	TIP DIAMETER
12 INCHES	8 INCHES

2. PROVIDE PILES OF SUFFICIENT LENGTH TO DEVELOP SPECIFIED BEARING VALUE AS INDICATED. BEARING ELEVATIONS OF TIMBER PILE FOUNDATIONS AS INDICATED ON DRAWINGS ARE APPROXIMATE.
3. PRESERVATIVE PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING AWPA USE CATEGORY STANDARDS:
   a. MARINE FOUNDATION PILES: AWPA UC5B
   b. FIELD TREATMENT OF CUT ENDS AND HOLES: AWPA M4
4. CONSTRUCTION TOLERANCES:
   a. DEVIATION FROM PLUMB AND ANGLE OF BATTER: 1/4 INCH PER FOOT OF PILE LENGTH, NOT TO EXCEED 6 INCHES OVERALL.
   b. DEVIATION FROM PILE TOP: 6 INCHES
5. PILES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH ASTM D 1143 UNDER THE DIRECTION OF A REGISTERED GEOTECHNICAL ENGINEER. ANY SUDDEN DECREASE IN DRIVING RESISTANCE SHALL BE INVESTIGATED BY THE GEOTECHNICAL ENGINEER AND RESULTS PROVIDED TO THE STRUCTURAL ENGINEER.

D. TIMBER PILES SHALL BE SOUTHERN YELLOW PINE AND HAVE A MINIMUM BUTT DIAMETER OF 12 INCHES, MINIMUM TIP DIAMETER OF 8 INCHES (+/- 1 INCH), CLEAR 8 FOOT MATERIAL, TAPER, STRAIGHTNESS, AND ALLO

E. TIMB CATE PCP,

F. PILE FIRE

G. PILE DRAI

H. TIMB ABLE LARG

I. HAN OR P

J. CUT TREA

24-WL-0094 & 26-WQC-0021
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84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

NO.	DATE	REVISIONS DESCRIPTION	BY

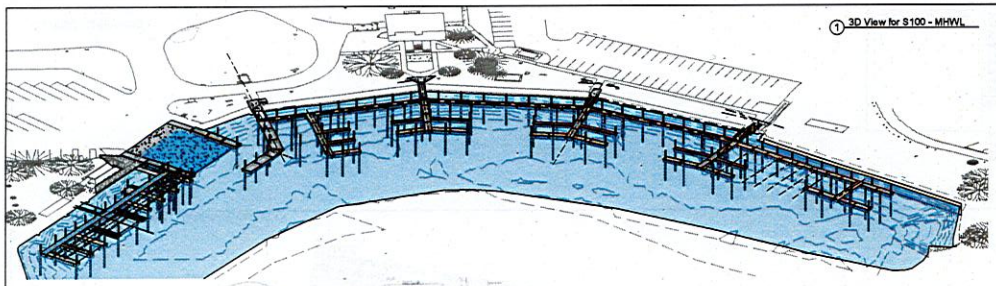
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

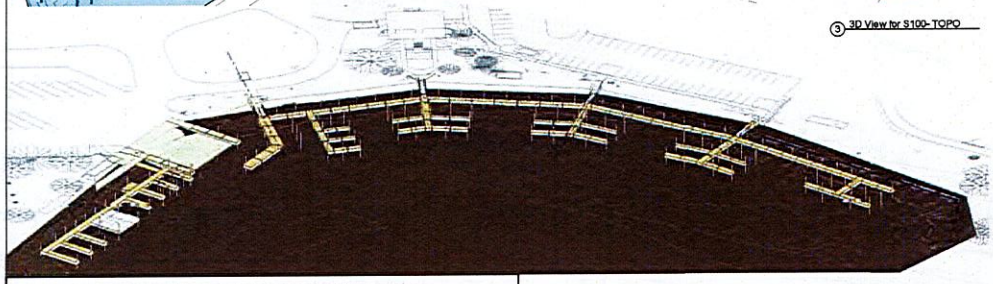
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

STRUCTURAL NOTES AND COVER SHEET
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-001
SHEET 10 OF 42
KCI JOB NUMBER 272202504



1 3D View for S100 - MHWL

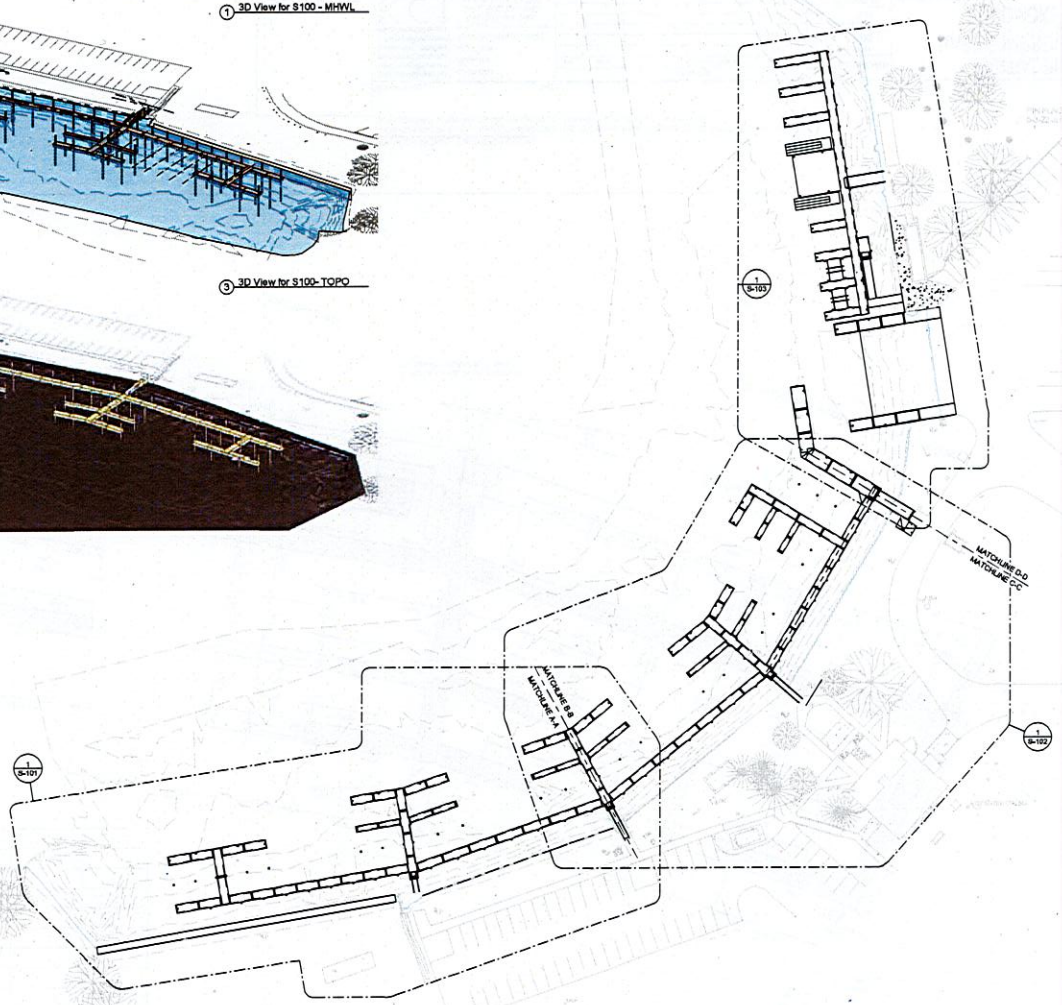


3 3D View for S100- TOPO

DELEGATED DESIGN SCHEDULE

ITEM:	DISCRIPTION:	REQUIREMENTS:
GANGWAY	ALUMINUM	SEE STRUCTURAL NOTES & S-500
FLOATING PIERS	ALUMINUM	SEE STRUCTURAL NOTES & S-500
LADDERS	ALUMINUM	SEE S-500
GUARDRAILS	ALUMINUM	SEE S-500
HINGES	ALUMINUM	SEE S-500
BOAT LIFTS	N/A	SEE S-402
COFFER DAM	WOOD OR SHEET PILING	SEE S-400
FISH CLEANING STATION	N/A	SEE S-402
EXISTING BULKHEAD ASSESSMENT	HIRE P.E. TO ASSESS	SEE S-103
KAYAK PLATFORM	TO SUIT BOARDSAFE LAUNCH	SEE S-103

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



2 STRUCTURAL MARINA LAYOUT PLAN
1" = 40'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS

LEGEND:

- STONE REVENTMENT
- CONCRETE SURFACE
- FLOATING PIERS
- GANGWAYS

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

THIS PLAN IS SEALED & CERTIFIED AS REQUIRED IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

PROPOSED MARINA LAYOUT
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-100
SHEET 11 OF 42
KCI JOB NUMBER 272202504

MDE Page 11 of 21

SCALE: 1/16" = 1'-0" (0, 8', 16', 32')
SCALE: 3/32" = 1'-0" (0, 4', 8', 12', 20')

AS-BUILT PILE DATA											
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:	PILE #:	TIP ELEV:	BUTT EL:	LENGTH:	PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

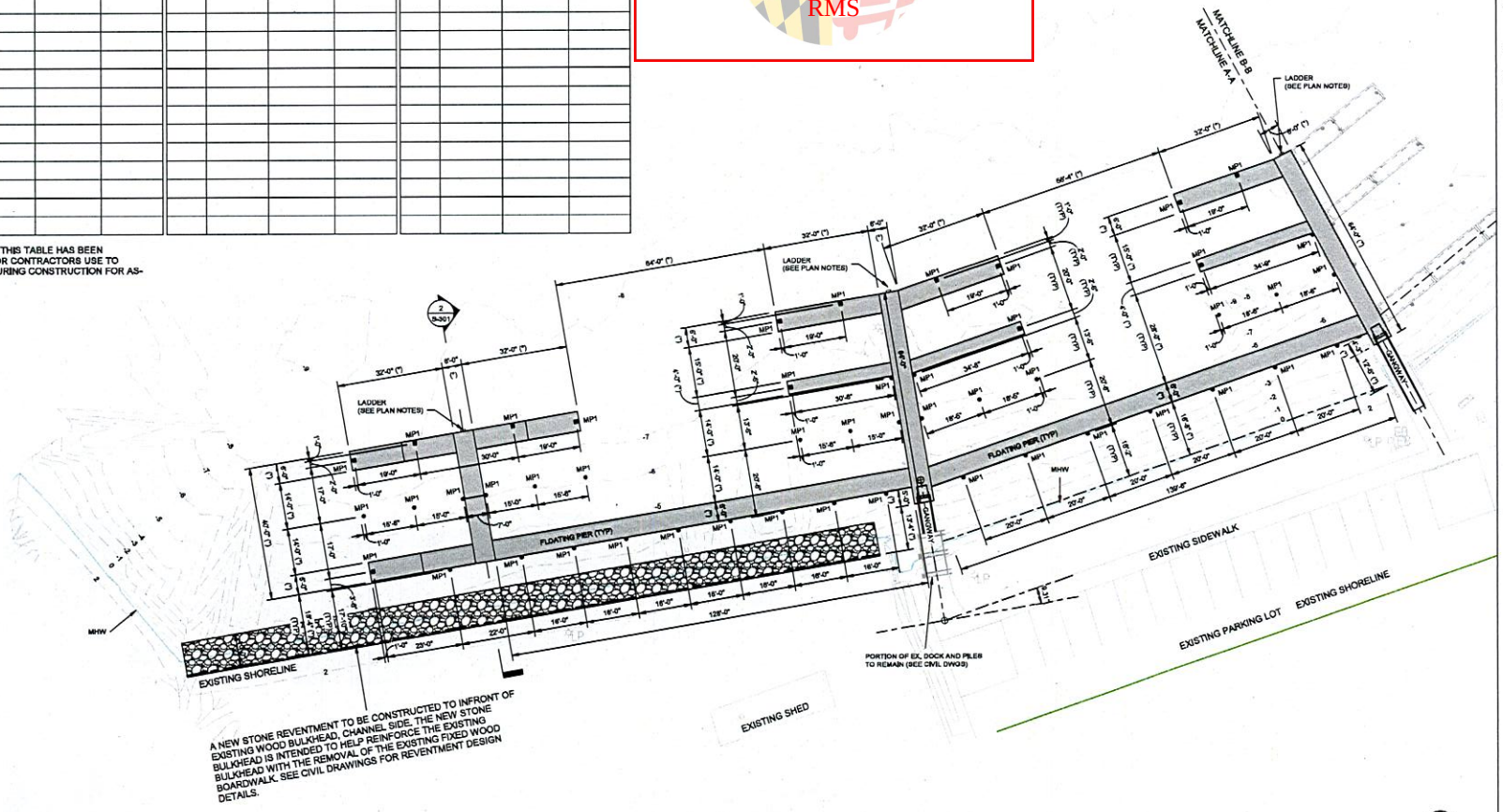
TABLE NOTE: THIS TABLE HAS BEEN PROVIDED FOR CONTRACTORS USE TO POPULATE DURING CONSTRUCTION FOR AS-BUILT DATA

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV:	BUTT EL:	LENGTH:
MP1	+10.00'	-25.00'	35'-0"
MP2:	+1.875'	-25.00'	26'-10 1/2"
MP3:	+8.00'	-25.00'	33'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS



1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPART MENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: DATE:

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7886

REVISIONS			
NO.	DATE	DESCRIPTION	BY

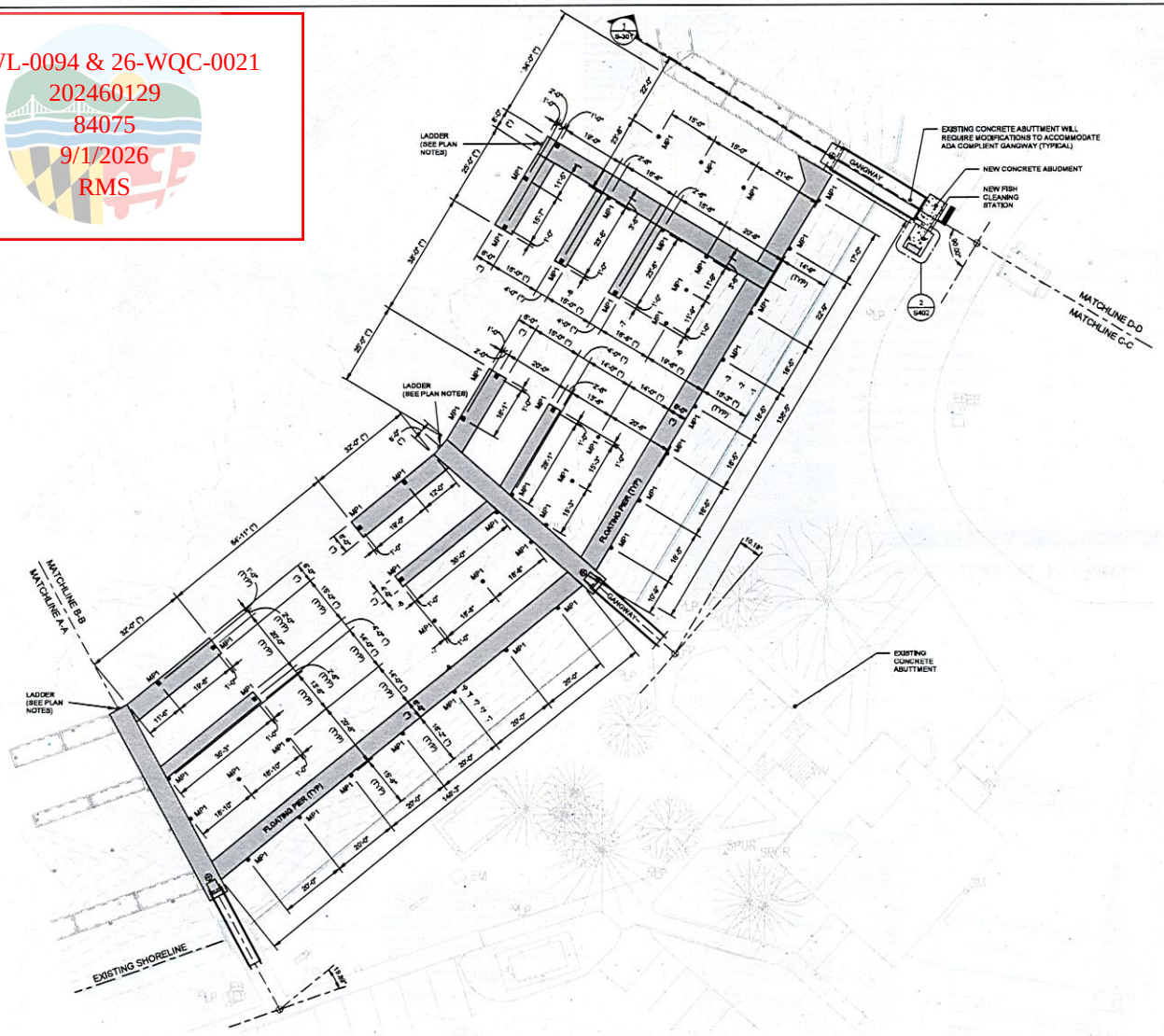
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

PARTIAL PILE PLAN (1)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-101
SHEET 12 OF 42
KCI JOB NUMBER
27202504

AS-BUILT PILE DATA			
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV:	BUTT EL:	LENGTH:
MP1	+10.00'	-25.00'	35'-0"
MP2:	+1.875'	-25.00'	26'-10 1/2"
MP3:	+8.00'	-25.00'	33'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

TABLE NOTE: THIS TABLE HAS BEEN PROVIDED FOR CONTRACTORS USE TO POPULATE DURING CONSTRUCTION FOR AS-BUILT DATA

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

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KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

PARTIAL PILE PLAN (2)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

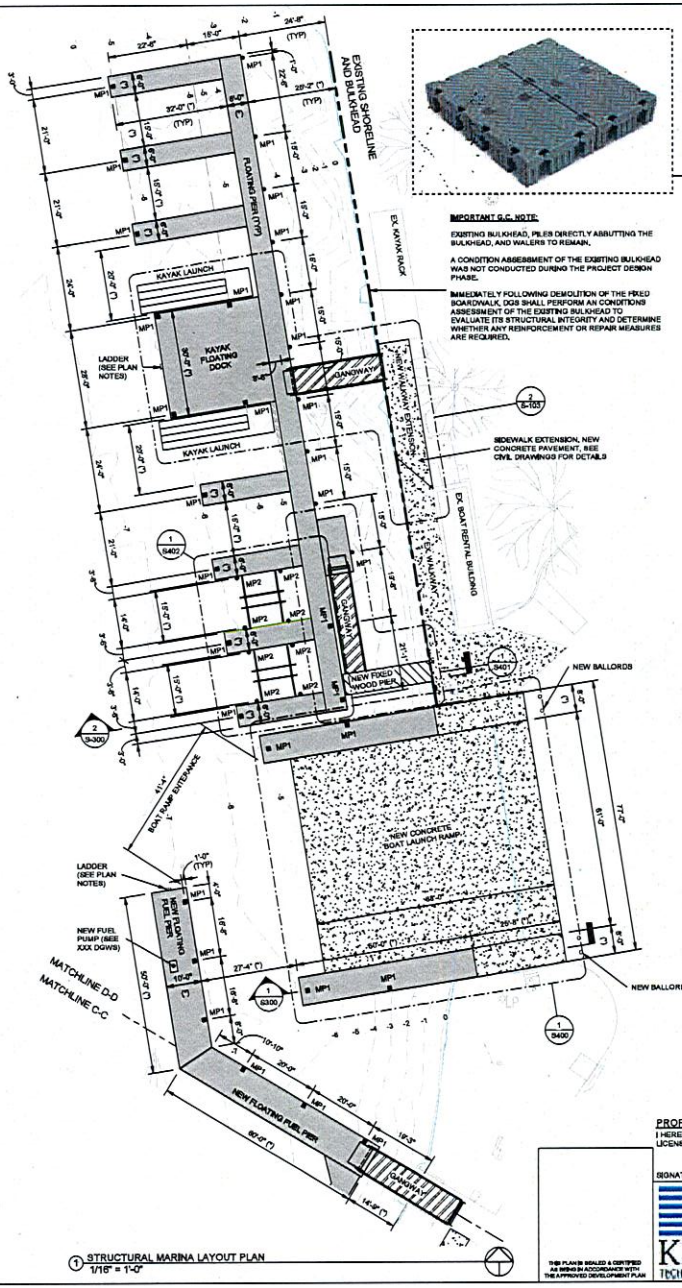
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-102
SHEET 13 OF 42
KCI JOB NUMBER
272202504

AS-BUILT PILE DATA			
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

TABLE NOTE: THIS TABLE HAS BEEN PROVIDED FOR CONTRACTORS USE TO POPULATE DURING CONSTRUCTION FOR AS-BUILT DATA

SCALE: 1/8" = 1'-0" SCALE: 1/16" = 1'-0"



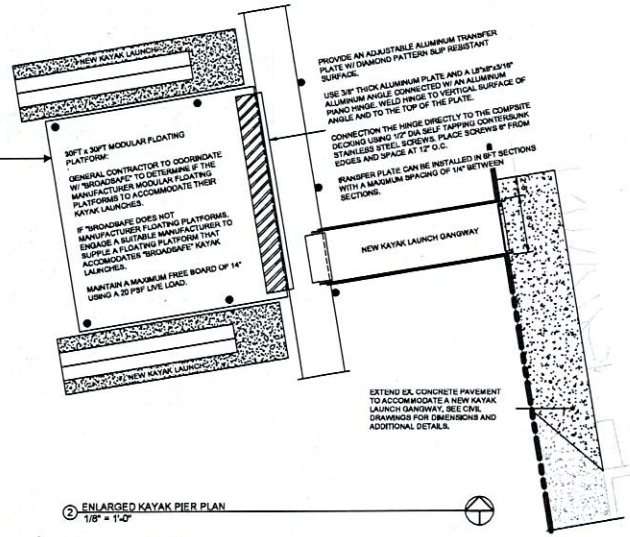
1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

IMPORTANT G.C. NOTE:

EXISTING BULKHEAD, PILES DIRECTLY ABBUTTING THE BULKHEAD, AND WALERS TO REMAIN.

A CONDITION ASSESSMENT OF THE EXISTING BULKHEAD WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE.

IMMEDIATELY FOLLOWING DEMOLITION OF THE FIXED BOARDWALK, DGS SHALL PERFORM AN CONDITIONS ASSESSMENT OF THE EXISTING BULKHEAD TO EVALUATE ITS STRUCTURAL INTEGRITY AND DETERMINE WHETHER ANY REINFORCEMENT OR REPAIR MEASURES ARE REQUIRED.



2 ENLARGED KAYAK PIER PLAN
1/8" = 1'-0"

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV:	BUTT EL:	LENGTH:
MP1	+10.00'	-25.00'	35'-0"
MP2:	+1.875'	-25.00'	26'-10 1/2"
MP3:	+8.00'	-25.00'	33'-0"

PLAN NOTES

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4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS

ALTERNATIVE OPTION (KAYAK PLATFORM):









Safety & Access for All Abilities

Features	Other Launche
Aluminum gangway 1:12 ADA slope	
Gangway top handrail and 36" handrail	
Parallel boat slide	
Tiered Bench	x
Bench rail	x
Overhead bars	
Overhead Straps	
Slideout Seat	x
Support saddles for vessles	x
Pull bars	
Informational signage with QR Code	x
Styrofoam encapsulated floation for stability	
Self-Performed installation Services	
Debris Diversion Control	x
SUP compatibility	
Extruded aluminum for added strength	x
Non-roller kayak chute for stability	x x

Note: All the above features are available for every BoardSafe launch although they may not be specified for each project.

BoardSafe

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: DATE:

THESE PLANS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

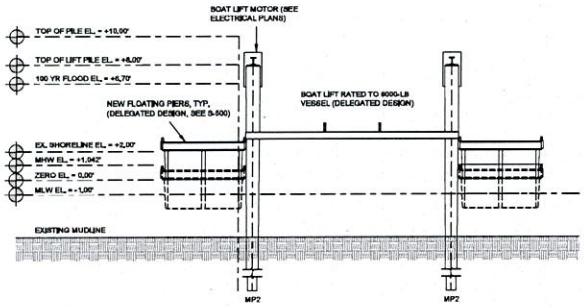
REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

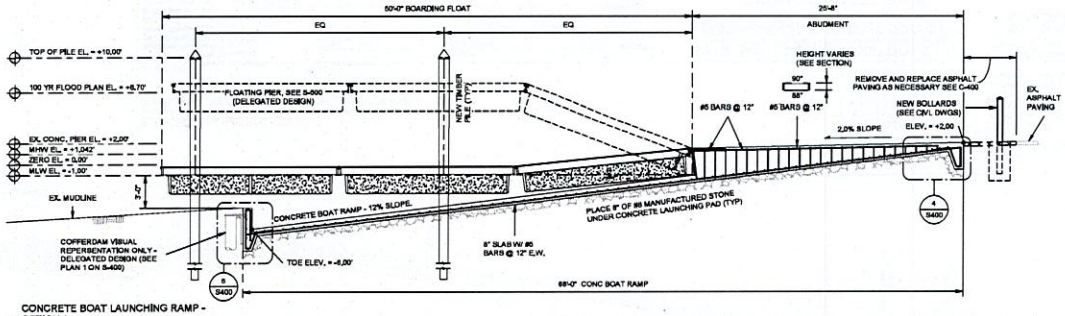
PARTIAL PILE PLAN (3)
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

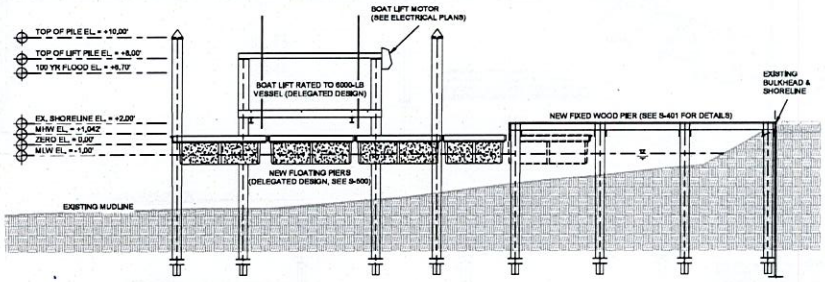
PROJECT: P-018-203-010
DATE: 02/17/2026
S-103
SHEET 14 OF 42
KCI JOB NUMBER
272202504



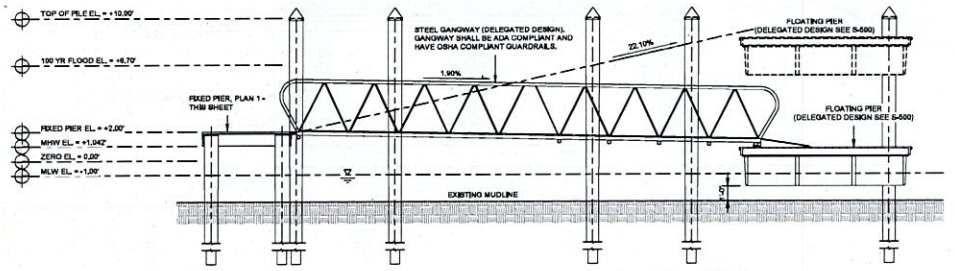
④ BOAT LIFT SECTION B
1/4" = 1'-0"



CONCRETE BOAT LAUNCHING RAMP - OPTION 1
① 3/16" = 1'-0"



② BOAT LIFT SECTION A
3/16" = 1'-0"



③ FIXED PIER GANGWAY SECTION
1/4" = 1'-0"

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

0 2' 4' 8' 10'
SCALE: 3/16" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

MDE Page 15 of 21

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

THIS PLAN IS SIGNED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

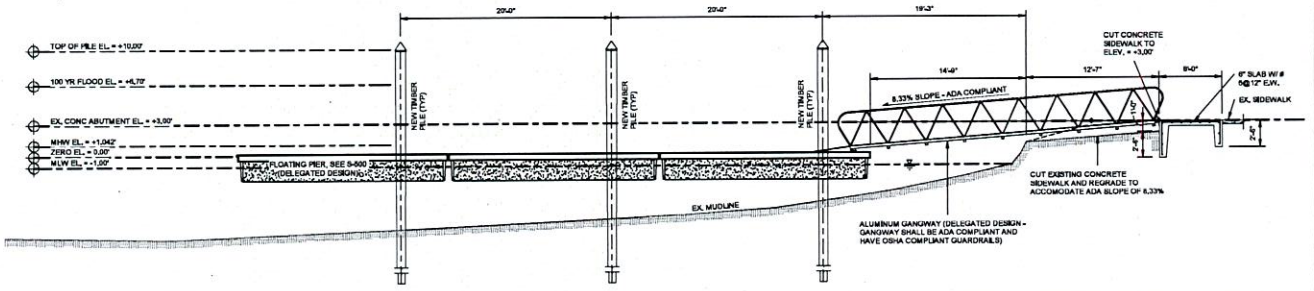
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

PIER AND CHANNEL SECTIONS (1)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

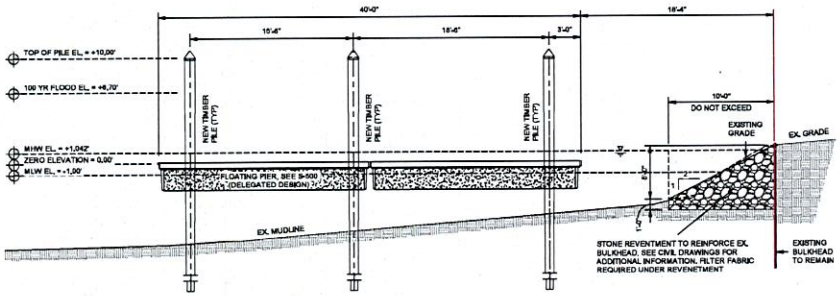
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-019-293-010
DATE: 02/17/2026
S-300
SHEET 19 OF 42
KCI JOB NUMBER
272202504

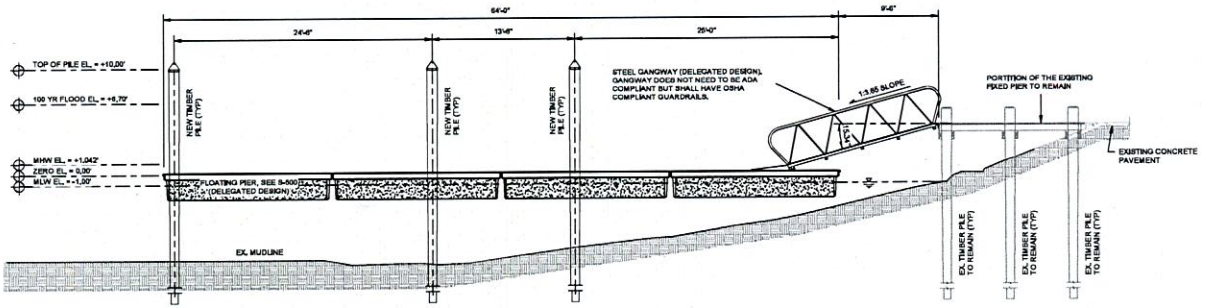
24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



1 FLOATING FUELING PIER SECTION
3/16" = 1'-0"



2 FLOATING PIER AT "BASS FISHING" AREA SECTION
3/16" = 1'-0"



3 FLOATING PIER SECTION CONNECTING TO EXISTING FIXED DOCK
3/16" = 1'-0"

0 2 4 8 10
SCALE: 3/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

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KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SURVEYORS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE (410) 316-7800
FAX (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
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CHECKED BY: DL

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

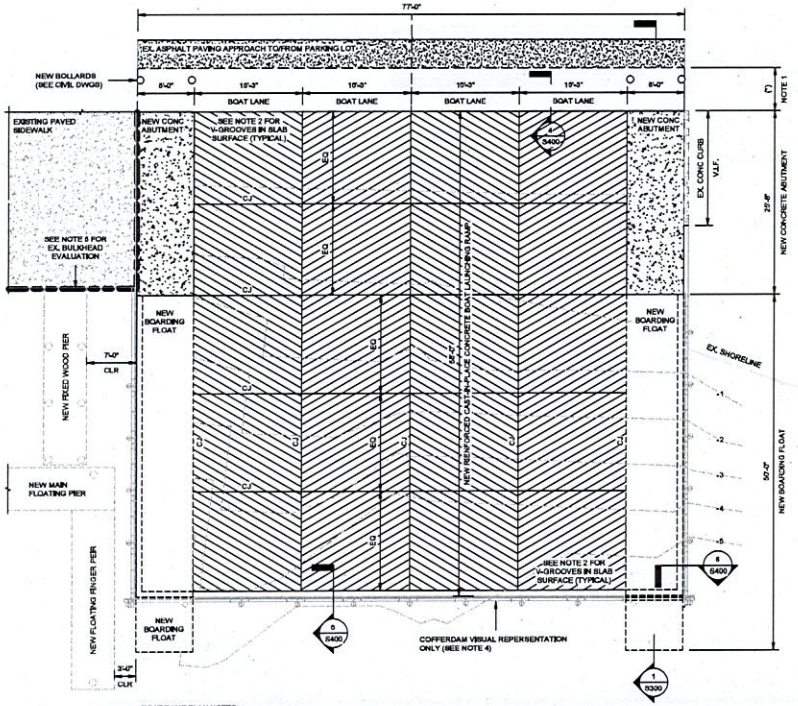
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PIER AND CHANNEL SECTIONS (2) MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-301
SHEET 16 OF 42
KCI JOB NUMBER 27202504

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



BOAT RAMP PLAN NOTES:

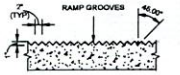
1. (T) REMOVE SECTION OF EXISTING ASPHALT PAVING TO ACCOMMODATE INSTALLATION OF NEW REINFORMED CAST-IN-PLACE CONCRETE BOAT LAUNCHING RAMP. REPAIR REMOVED SECTION OF ASPHALT PAVING PER CIVIL DRAWINGS ON C-400.
2. V-GROOVES: V-GROOVES SHALL HAVE ALTERNATING 1 INCH 45 DEGREES FACES AT 45 DEGREES, RESULTING IN 90 DEGREES PEAKS AND VALLEYS. ALIGNMENT OF V-GROOVES SHOULD BE AS FOLLOWS:
   A. A30 DEGREES MEASURED FROM THE HORIZONTAL TOE OF THE LAUNCHING RAMP LANES; AND
   B. 90 DEGREES MEASURED FROM THE SLOPING SIDES OF THE LAUNCHING LANES.
3. SEE CAST-IN-PLACE CONCRETE NOTES ON S-001 FOR CONCRETE MIX AND STRENGTH REQUIREMENTS.
4. COFFERDAM: A COFFERDAM SHALL BE INSTALLED SO THE CAST-IN-PLACE CONCRETE SLAB CAN BE CONSTRUCTED "IN-THE-DRY." THE DESIGN AND CONSTRUCTION OF A COFFERDAM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR INCLUDING MATERIALS TO BE USED. ADDITIONALLY, "DE-WATERING" WILL LIKELY BE REQUIRED TO INSTALL THE BOAT RAMP.

   NOTE: THE COFFERDAM ILLUSTRATED IN THE PLAN IS A GRAPHICAL REPERSENTATION ONLY. COFFERDAM CONSTRUCTION INCLUDING MATERIALS AND DESIGN IN THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (DELEGATED DESIGN ITEM).
5. EXISTING BULKHEAD: EXISTING BULKHEAD, PILES DIRECTLY ABBUTTING THE BULKHEAD, AND WALERS TO REMAIN.

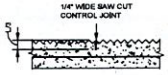
   A CONDITION ASSESSMENT OF THE EXISTING BULKHEAD WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE.

   DIRECTLY AFTER DEMOLITION OF THE FIXED BOARDWALK DGB WILL CONDUCT AN EXISTING CONDITIONS ASSESS OF THE BULKHEAD TO DETERMINE IF ITS STRUCTURE INTERGRITY IS INTACT OR WHETHER REINFORCEMENT/REPAIR MEASURES ARE REQUIRED.

① ENLARGED BOAT RAMP PLAN
1/8" = 1'-0"

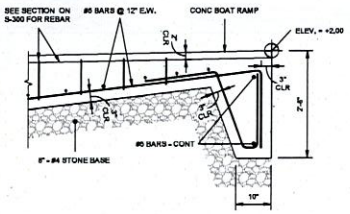


② BOAT RAMP CONCRETE GROOVE DETAIL
3/4" = 1'-0"

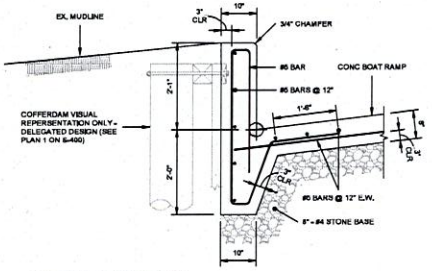


③ BOAT RAMP CONTROL JOINT DETAIL
3/4" = 1'-0"

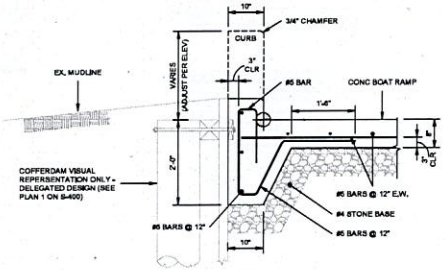
SCALE: 1/16" = 1'-0" (0, 8', 16', 32')
SCALE: 3/32" = 1'-0" (0, 4', 8', 12', 20')



④ BOAT RAMP REINFORCEMENT DETAIL - NO CURB
3/4" = 1'-0"



⑤ BOAT RAMP TOE REINFORCEMENT DETAIL
3/4" = 1'-0"



⑥ BOAT RAMP SIDE REINFORCEMENT DETAIL
3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

MDE Page 17 of 21

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83. THE VERTICAL DATUM IS NAVD88.

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

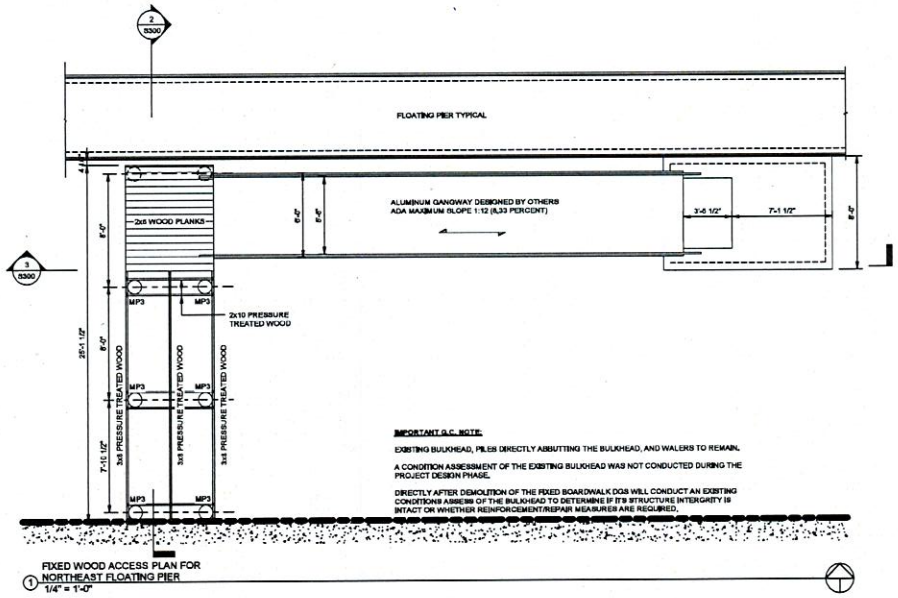
KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

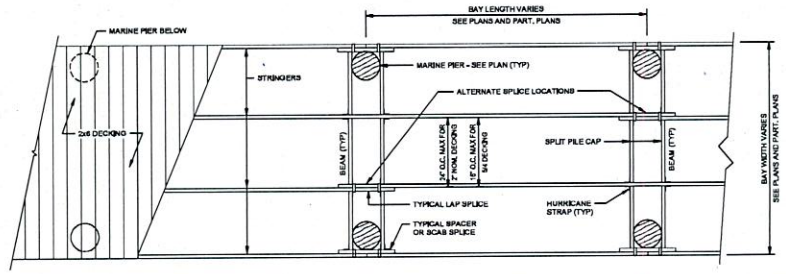
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

ENLARGED PARTIAL PLANS
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

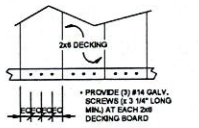
PROJECT: PA018-203-010
DATE: 02/17/2026
S-400
SHEET 17 OF 42
KCI JOB NUMBER 272202504



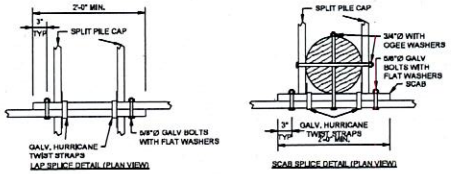
1 FIXED WOOD ACCESS PLAN FOR NORTHEAST FLOATING PIER
1/4" = 1'-0"



2 TYPICAL FIXED PIER FRAMING PLAN
1/2" = 1'-0"

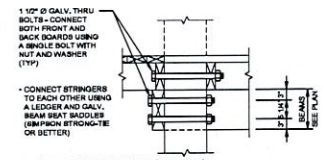


3 TYPICAL 2x6 DECKING CONNECTION DETAIL
1 1/2" = 1'-0"

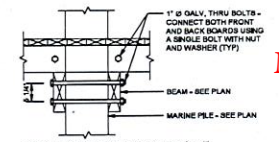


NOTES:
1. THE SPACING BETWEEN DECKING MEMBERS SHOULD BE CHOSEN TO PREVENT A GAP WHICH WOULD HINDER DISABLED ACCESS IN CASE OF SHRINKAGE.
2. HARDWARD SHOULD BE OVERSIZED DUE TO THE HARSHNESS OF THE ENVIRONMENT IN WHICH A TYPICAL PIER IS LOCATED.
3. HURRICANE STRAPS ARE RECOMMENDED.
4. SCREWS TO BE USED AS FASTENERS.
5. AS IN TYPICAL MARINE CONSTRUCTION, FASTENERS SHOULD BE HOT-DIPPED GALVANIZED (COATED WITH EPOXY AFTER INSTALLATION) OR STAINLESS STEEL.

4 TYPICAL SPLICE CONNECTION DETAILS
1" = 1'-0"



5 TYPICAL LEDGER CONNECTION DETAIL AT SLIPS
3/4" = 1'-0"



6 TYPICAL PIER CONNECTION DETAIL AT STRINGERS & BEAMS
3/4" = 1'-0"

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 18 of 21

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,
SIGNATURE: _____ DATE: _____

SCALE: 1/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 1'-0"

THIS PLAN IS SCALED & CERTIFIED AS WRITTEN IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

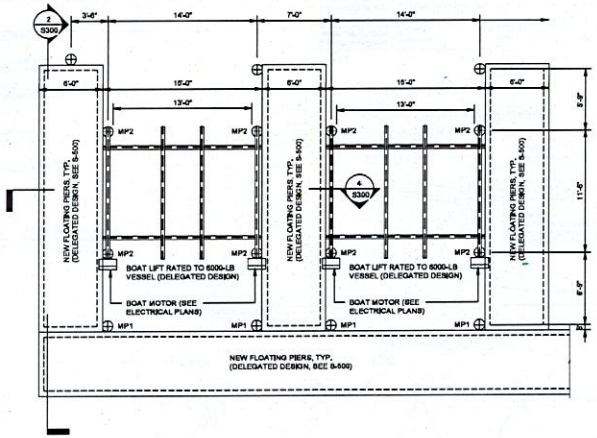
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

ENLARGED ADA FIXED PIER & DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

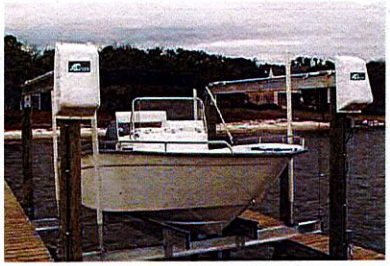
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

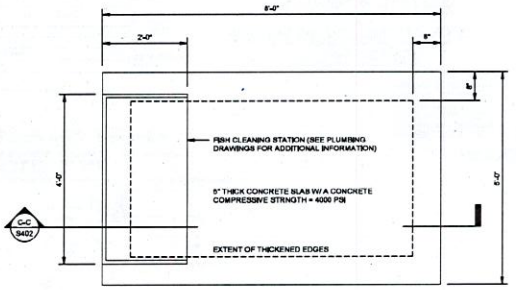
PROJECT: P-018-203-010
DATE: 02/17/2026
S-401
SHEET 18 OF 42
KCI JOB NUMBER
272202504

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

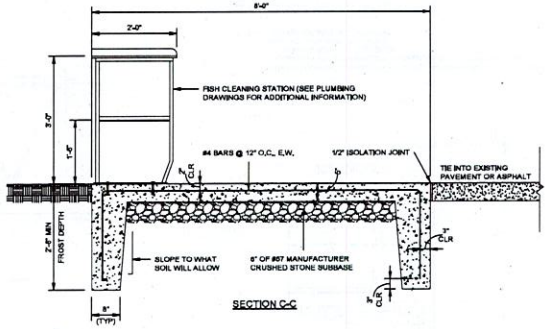


1 ENLARGED BOAT LIFT PLAN
3/16" = 1'-0"





PLAN VIEW



SECTION C-C

2 ENLARGED FISH CLEANING STATION W/ SECTION
3/4" = 1'-0"



MDE Page 19 of 21

100% CONSTRUCTION DOCUMENTS

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SIGNATURE: _____ DATE: _____

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE (410) 316-7800
FAX (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

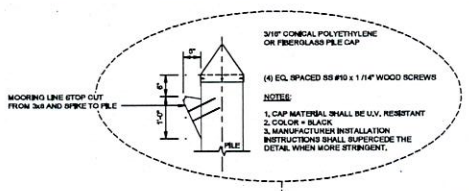
ENLARGED FISH STATION & BOAT LIFT
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

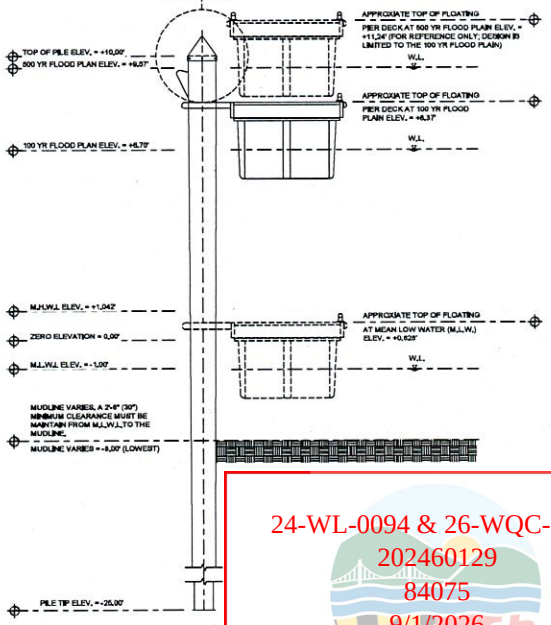
PROJECT: P-018-203-010
DATE: 02/17/2026
S-402
SHEET 19 OF 42
KCI JOB NUMBER
27220250

THIS PLAN IS SCALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

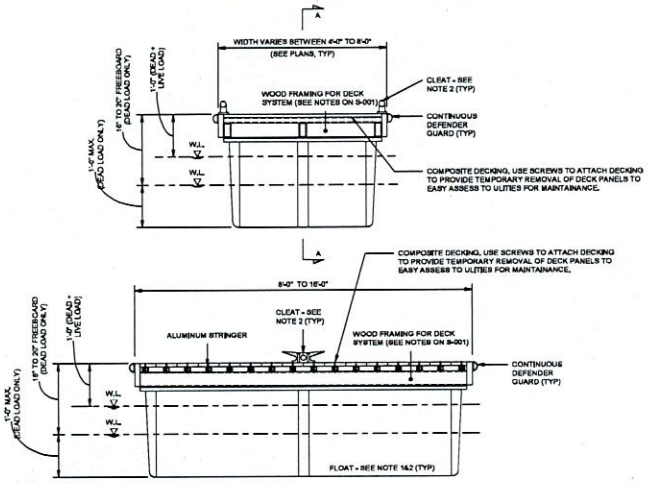
0 2' 4' 8' 10'
SCALE: 3/16" = 1'-0"

0 1' 2' 3'
SCALE: 3/4" = 1'-0"



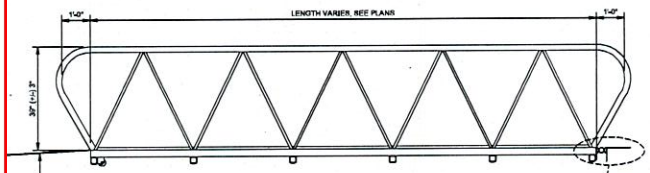


1 TYPICAL MARINE PILE DETAIL
1/2" = 1'-0"



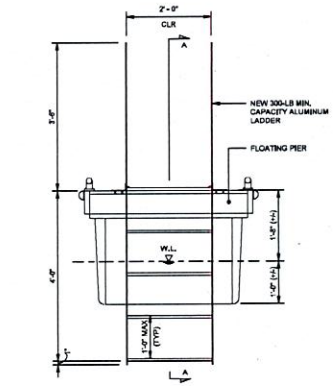
NOTES:
1. FLOATING PIER TO BE DESIGN BY THE CONTRACTOR FOR A 40-PSF LIVE LOAD.
2. FLOATS SHALL BE EPS FOAM FILLED WITH A POLYETHYLENE SHELL.
3. FLOATS AND CHEATS SHALL BE ATTACHED TO STRUCTURAL FRAMING MEMBERS USING BOLTS; SCREWS WILL NOT BE PERMITTED.
4. ALTERNATIVE DESIGNS REQUIRE APPROVAL FROM THE ENGINEER IN RESPONSIBLE CHARGE.
5. FLOATS SHALL NOT COMPLETELY SUBMERGE UNDER DESIGN LOADS.

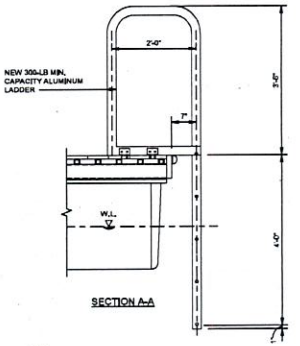
2 TYPICAL FLOATING PIER DETAILS
3/4" = 1'-0"



NOTES:
1. GANGWAY IS A DELEGATED DESIGN
2. GANGWAY TO BE CONSTRUCTED OF ALUMINUM

3 GANGWAY DETAILS
1/2" = 1'-0"

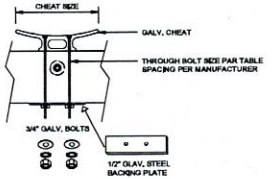




NOTES:
1. SALVAGE EXISTING LADDERS AND REUSE.

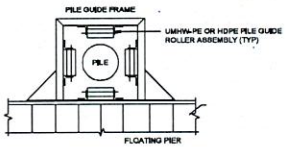
FOR NEW LADDERS:
2. LADDER AND CONNECTION HARDWARE SHALL BE DESIGNED BY THE CONTRACTOR.
a. LADDER TO BE DESIGNED FOR A MINIMUM 300-LBS CAPACITY AND CONSTRUCTED OF ALUMINUM.
2. LADDER SHALL BE OSHA COMPLIANT.
3. SEE PLANS FOR LADDER LOCATIONS.

4 TYPICAL LADDER TO FLOATING PIER DETAILS
3/4" = 1'-0"



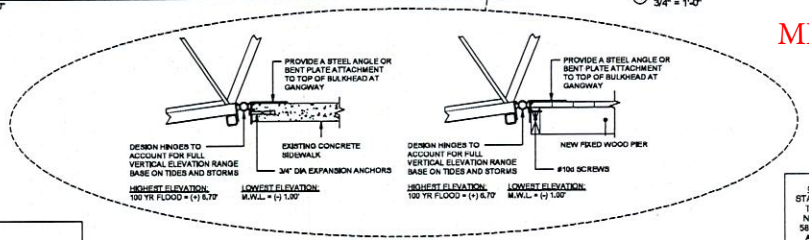
CHEAT TABLE		
LOCATION	CHEAT SIZE	BOLT SIZE
ALL	10" HD	3/4" DIA
HD = HEAVY DUTY CHEAT SIZE		

5 CLEAT DETAIL
3/4" = 1'-0"



NOTES:
1. PILE GUIDE DESIGN SHALL BE THE RESPONSIBILITY OF THE FLOATING PIER MANUFACTURER.
2. ALTERNATIVE EXTERIOR PILE GUIDE DESIGNS REQUIRE APPROVAL OR THE ENGINEER-IN-CHARGE.

6 EXTERNAL ROLLER GUIDE FOR PILES
3/4" = 1'-0"



PROFESSIONAL CERTIFICATION
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SIGNATURE: _____ DATE: _____

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KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

TYPICAL DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-500
SHEET 20 OF 42
KCI JOB NUMBER
272202504

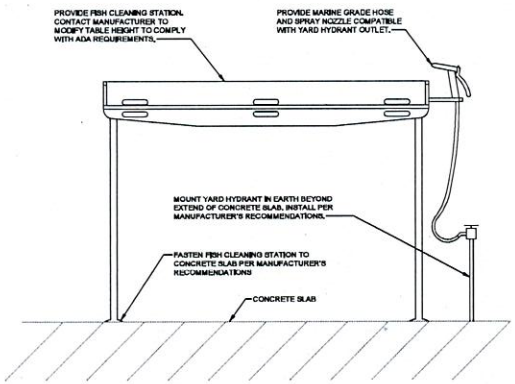
100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPART MENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

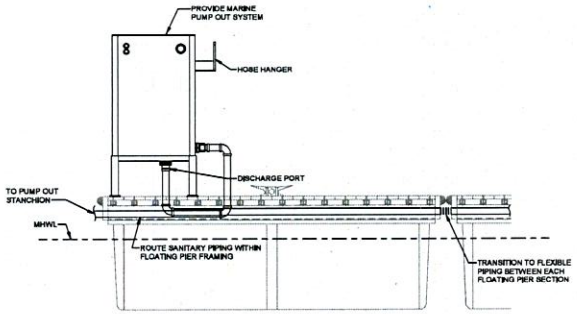
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

SCALE: 1/2" = 1'-0"
SCALE: 3/4" = 1'-0"

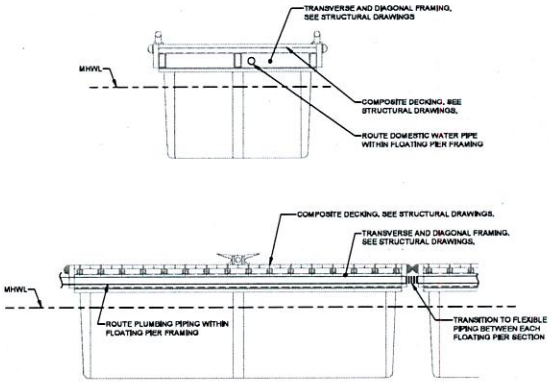
24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



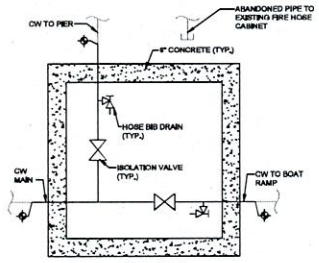
5 FISH CLEANING STATION DETAIL
NOT TO SCALE



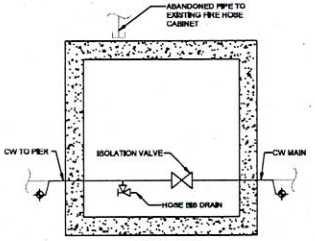
3 MARINE PUMP-OUT SYSTEM DETAIL
NOT TO SCALE



1 FLOATING PIER PIPING INSTALLATION DETAIL
NOT TO SCALE



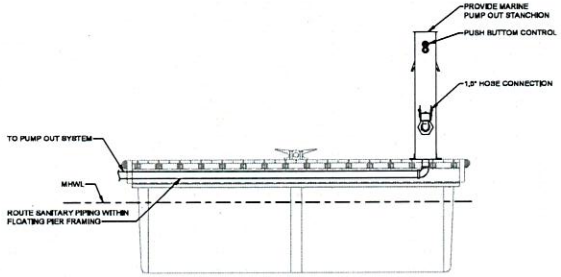
VAULT B



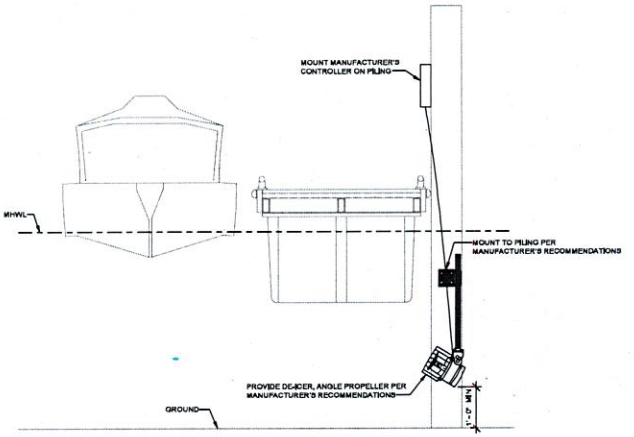
VAULT A

NOTES:
1. VAULTS SHALL BE 24"x24"x36" CONFIRM DEPTH PRIOR TO PURCHASE.
2. PROVIDE VAULTS WITH GRAVEL BOTTOM
3. PROVIDE CAST IRON FRAME AND COVER

6 VALVE VAULT DETAILS
NOT TO SCALE



4 MARINE PUMP-OUT STANCHION DETAIL
NOT TO SCALE



2 DE-ICER DETAIL
NOT TO SCALE

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36130 EXPIRATION DATE: 01.06.2027

SIGNATURE: DATE:

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN.

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD SPARKS, MARYLAND 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818

REVISIONS NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: FG
CHECKED BY: BPB
MDE NO:

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PLUMBING DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4 WORCESTER COUNTY, MARYLAND

PROJECT: P-016-283-010
DATE: 02/17/2026
P-500
SHEET 24 OF 42
KCI PROJECT NUMBER 272202504

MARINA REPLACEMENT PROJECT

POCOMOKE RIVER STATE PARK MARINA & BOAT RAMP IMPROVEMENTS AT SHAD LANDING

100% CONSTRUCTION DOCUMENTS
3461 WORCESTER HIGHWAY
SNOW HILL, MARYLAND
WORCESTER COUNTY

PROJECT NO. P-018-203-010

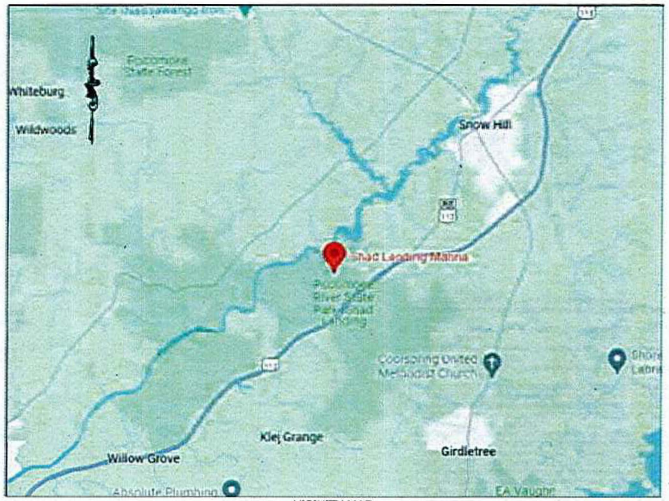
24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

GENERAL NOTES:

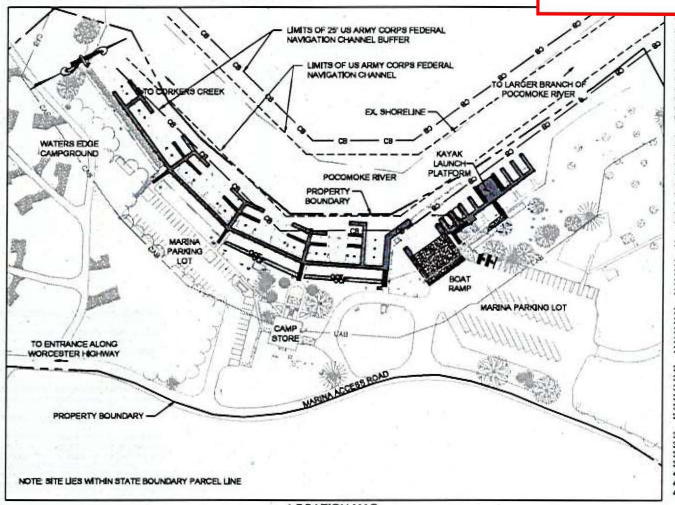
1. TAX MAP PARCEL: MAP 71, GRID 001, PARCEL 0028
2. PLAN SHOWS AREA OF SHAD LANDING MARINA IN POCOMOKE RIVER STATE PARK, PLAN DOES NOT SHOW THE COMPLETE PARCEL.
3. NO PERSON SHALL PLACE ANY OBSTRUCTION IN AN EASEMENT ASSOCIATED WITH A FEDERAL OR STATE REGULATED RESOURCE WITHOUT PRIOR WRITTEN AUTHORIZATION BY THE APPROPRIATE REGULATORY AUTHORITY.
4. STORMWATER MANAGEMENT WILL NOT BE REQUIRED FOR THIS PROJECT. SEDIMENT & EROSION CONTROL WILL BE REQUIRED FOR UPLAND DISTURBANCE.
5. WETLANDS AND FLOODPLAIN HAVE NOT BEEN DELINEATED ON THIS PLAN.
6. THE SITE LIES WITHIN THE RESOURCE CONSERVATION AREA (RCA) CRITICAL AREA.
7. TIDAL ELEVATIONS PER NOAA STATION ID 8571358 LOCATED IN SNOW HILL, MARYLAND: MEAN HIGH WATER LEVEL (MHW) = 0.63' MEAN LOW WATER LEVEL (MLW) = -1.00'. FIELD SURVEY OBSERVED STAINING ON EXISTING PILINGS AT AN ELEVATION OF 1.042' WHICH IS TYPICALLY CONSISTENT WITH MHW.
8. TOPOGRAPHIC SURVEY WAS PERFORMED BY KCI TECHNOLOGIES, INC. IN JULY 2022.
9. FOREST CONSERVATION IS NOT REQUIRED FOR THIS PROJECT.
10. PLAN WAS CREATED WITHOUT OBTAINING A TITLE REPORT.
11. ALL WORK IS TO TAKE PLACE IN ONE PHASE.

APPLICABLE CODES AND STANDARDS:

1. 2018 PROCEDURE MANUAL FOR PROFESSIONAL SERVICES, STATE OF MARYLAND DEPARTMENT OF GENERAL SERVICES, DESIGN, CONSTRUCTION, AND ENERGY PROJECT MANAGEMENT AND DESIGN DIVISION.
2. 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION.
3. 2000 STORM WATER DESIGN MANUAL, MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION (INCLUDING APRIL 15, 2010 REVISIONS).
4. 2021 IBC - INTERNATIONAL BUILDING CODE
5. 2018 IPC - INTERNATIONAL PLUMBING CODE
6. MARYLAND BUILDING PERFORMANCE STANDARDS REGULATIONS, COMAR 08.12.54, 2022 EDITION
7. STATE OF MARYLAND FIRE PREVENTION CODE, 2020 EDITION
8. NFPA 1 - FIRE CODE, 2018 EDITION
9. NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2018 EDITION
10. NFPA 25 - STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2017 EDITION
11. NFPA 101 - LIFE SAFETY CODE, 2018 EDITION
12. NFPA 303 - FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS, 2018 EDITION
13. 2010 AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS
14. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
15. 2020 NATIONAL ELECTRICAL CODE
16. 2021 INTERNATIONAL ENERGY CONSERVATION CODE WORCESTER COUNTY FLOODPLAIN MANAGEMENT CODE BR 2-301 COAST SMART
17. MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT), STATE HIGHWAY ADMINISTRATION (SHA), BOOK OF STANDARDS - FOR HIGHWAY & INCIDENTAL STRUCTURES, CURRENT EDITION
18. INTERNATIONAL FUEL GAS CODE (IFGC)



VICINITY MAP
SCALE: 1" = 1 MILE



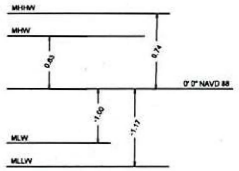
LOCATION MAP
SCALE: 1" = 100'

SHT. NO.	DWG. NO.	SHEET TITLE
01 OF 42	G-100	COVER SHEET
02 OF 42	C-001	EROSION & SEDIMENT CONTROL NOTES
03 OF 42	C-100	EXISTING CONDITIONS AND DEMOLITION PLAN
04 OF 42	C-101	SITE PLAN
05 OF 42	C-102	EROSION & SEDIMENT CONTROL PLAN
06 OF 42	C-400	ENLARGED PARCEL ADA PLAN
07 OF 42	C-500	SITE DETAILS
08 OF 42	C-501	SITE DETAILS
09 OF 42	C-502	EROSION & SEDIMENT CONTROL DETAILS
10 OF 42	S-001	STRUCTURAL NOTES AND COVER SHEET
11 OF 42	S-100	PROPOSED MARINA LAYOUT
12 OF 42	S-101	PARTIAL PILE PLAN (1)
13 OF 42	S-102	PARTIAL PILE PLAN (2)
14 OF 42	S-103	PARTIAL PILE PLAN (3)
15 OF 42	S-300	PIER AND CHANNELS SECTIONS (1)
16 OF 42	S-301	PIER AND CHANNELS SECTIONS (2)
17 OF 42	S-400	ENLARGED BOAT RAMP PLAN AND DETAILS
18 OF 42	S-401	ENLARGED ADA FIXED PIER PLAN AND DETAILS
19 OF 42	S-402	ENLARGED FISH STATION AND BOAT LIFT PLAN W/ DETAILS
20 OF 42	S-500	TYPICAL DETAILS
21 OF 42	P-001	PLUMBING COVER SHEET
22 OF 42	P-100	PLUMBING DEMOLITION PLAN
23 OF 42	P-101	PLUMBING NEW WORK PLAN
24 OF 42	P-500	PLUMBING DETAILS
25 OF 42	F-001	FIRE STANDPIPE COVER SHEET
26 OF 42	F-100	FIRE STANDPIPE DEMOLITION PLAN
27 OF 42	F-200	FIRE STANDPIPE NEW WORK PLAN
28 OF 42	F-500	FIRE STANDPIPE DETAILS
29 OF 42	F-600	FIRE STANDPIPE CONCEPTUAL RISER
30 OF 42	E-001	ELECTRICAL COVER SHEET
31 OF 42	E-100	ELECTRICAL DEMOLITION PLAN
32 OF 42	E-101	ELECTRICAL NEW WORK PLAN
33 OF 42	E-500	ELECTRICAL ONE LINE DIAGRAM
34 OF 42	E-501	ELECTRICAL DETAILS
35 OF 42	E-600	ELECTRICAL SCHEDULE
36 OF 42	DWT-001	FUEL DEMOLITION PLAN
37 OF 42	DWT-002	FUEL DESIGN LAYOUT
38 OF 42	DWT-003	MECHANICAL DETAILS
39 OF 42	DWT-004	MECHANICAL DETAILS II
40 OF 42	DWT-005	MECHANICAL DETAILS III
41 OF 42	DWT-006	ELECTRICAL DETAILS
42 OF 42	DWT-007	ELECTRICAL DETAILS II

STATE OF MARYLAND

DEPARTMENT OF GENERAL SERVICES
ATIF CHAUDHRY, SECRETARY
301 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

BOARD OF PUBLIC WORKS
WES MOORE, GOVERNOR
BROOKE E. LIERMAN, COMPTROLLER
DERECK E. DAVIS, TREASURER



DATUM COMPARISONS
NOT TO SCALE

DATUM COMPARISONS WERE OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) INFORMATION INTERPOLATED FROM STATION ID #8571358

MDE Page 1 of 21

100% CONSTRUCTION DOCUMENTS

MARYLAND DEPARTMENT OF NATURAL RESOURCES APPROVAL
NAME DATE
TITLE

DEPARTMENT OF GENERAL SERVICES APPROVAL
PROJECT MANAGER DATE
CHIEF OF PM&D DATE

THIS PLAN IS SEALED & CERTIFIED AS SIGNED IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____, EXPIRATION DATE: _____.

SIGNATURE: _____ DATE: _____

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
1 INCH = 100 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

KCI TECHNOLOGIES
Engineers
Planners
Scientists
Construction Managers
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1" = 50'
DRAWN BY: RKS
CHECKED BY: RKS
RDE NO:

COVER SHEET
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
G-100
SHEET 1 OF 42
KCI PROJECT NUMBER
272202504

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY MDE AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY MDE, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF MDE.

2. THE CONTRACTOR SHALL NOTIFY MDE IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
   A. THE REQUIRED PRE-CONSTRUCTION MEETING.
   B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
   C. DURING INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
   D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
   E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
   F. PRIOR TO FINAL ACCEPTANCE.

3. THE PLAN APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MDE AND THE AGENCY RESPONSIBLE FOR THE PROJECT.

4. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE MDE INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE MDE INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM MDE INSPECTOR. THE CONTRACTOR SHALL OBTAIN PRIOR AGENCY AND MDE APPROVAL FOR MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.

5. THE MDE INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.

6. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC TOADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.

7. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE MDE INSPECTOR.

8. EROSION AND SEDIMENT CONTROL FOR UTILITY CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH APPROVED PLANS. UTILITY CONSTRUCTION SHALL ONLY BE FOR AREAS WITHIN THE DELINEATED LIMIT OF DISTURBANCE. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO "THE START OF WORK. WHEN SAME DAY STABILIZATION IS APPROVED:
   A. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
   B. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY.

9. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN MDE APPROVED DEWATERING PRACTICE PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

10. CONCRETE WASHOUT STRUCTURES SHALL BE USED WHEN CONCRETE TRUCKS, DRUMS, PUMPS, CHUTES, OR OTHER EQUIPMENT IS RINSED OR CLEANED ON-SITE.

11. CONSTRUCTION ACTIVITIES PRODUCING DUST SHALL IMPLEMENT CONTROL MEASURES TO AVOID THE SUSPENSION OF DUST PARTICLES AND/OR PREVENT DUST FROM BLOWING OFF-SITE OR TO AREAS WITHOUT TREATMENT.

12. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
   A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
   B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

13. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.

14. WHEN SEEDING, ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 2:1 SHALL BE STABILIZED WITH 4 INCHES OF TOPSOIL, SEED, AND MULCH. ALL DISTURBED AREAS WITH SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH BIODEGRADABLE MULCH RETENTION OVER 2 INCHES OF TOPSOIL AND SEED ONLY. PLASTIC NETTING MULCH RETENTION MATTING IS PROHIBITED.

15. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE MINIMIZED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

16. FOR STOCKPILE SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), THE CONTRACTOR SHALL APPLY BIODEGRADABLE MULCH RETENTION OVER 2 INCHES OF TOPSOIL AND SEED OR OTHER APPROVED STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN THREE (3) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. PLASTIC NETTING MULCH RETENTION MATTING IS PROHIBITED. FOR SLOPES 3:1 OR FLATTER, THE CONTRACTOR SHALL APPLY STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN SEVEN (7) DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

17. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

18. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOILS AMENDMENTS AND BIODEGRADABLE MULCH RETENTION. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROVIDE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NOT LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT FOR SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS FOR FLATTER SLOPES. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND BIODEGRADABLE MULCH RETENTION SHALL BE APPLIED TO DISTURBED AREAS. THE PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

19. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITH PERMISSION OF THE MDE INSPECTOR WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. UPON REMOVAL OF SEDIMENT CONTROL DEVICES, THE AREA DISTURBED BY REMOVAL SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED, WITHIN 24 HOURS OF SAID REMOVAL. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

20. OFF-SITE OR BORROW AREAS ON STATE OR FEDERAL PROPERTY SHALL HAVE PRIOR APPROVAL BY MDE AND OTHER APPLICABLE STATE, FEDERAL, AND LOCAL AGENCIES; OTHERWISE APPROVAL SHALL BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE SHALL BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

21. SITE INFORMATION:
   A. UPLAND AREA DISTURBED 4,865 SQUARE FEET
   B. TOTAL CUT 0 CUBIC YARDS
   C. TOTAL FILL 90 CUBIC YARDS
   D. OFF-SITE WASTE/BORROW AREA LOCATION N/A

22. USE ONLY 100-PERCENT BIODEGRADABLE MULCH RETENTION MESH FOR SEEDING AND VEGETATIVE SLOPE STABILIZATION. NO PLASTIC, SYNTHETIC NETTING FOR SEED AND MULCH RETENTION SYSTEMS PERMITTED.

SEQUENCE OF CONSTRUCTION

1. NOTIFICATION OF MDE'S COMPLIANCE PROGRAM AT 410-537-3510 A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF ANY EARTH DISTURBANCE ACTIVITY TO SCHEDULE A PRE-CONSTRUCTION MEETING.
2. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS.
3. CONSTRUCTION AND STABILIZATION OF PERIMETER CONTROLS, WHICH INCLUDES BUT MAY NOT BE LIMITED TO, STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TURBIDITY CURTAIN, AND COFFERDAM. CONTRACTOR TO DETERMINE EXACT LOCATION OF COFFERDAM AND TURBIDITY CURTAIN SO AS TO PROVIDE ENOUGH CLEARANCE FOR CONSTRUCTION. ALL SEDIMENT CONTROLS ARE TO BE INSPECTED REGULARLY TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. IF WATER IS PONDING WITHIN THE LIMITS OF DISTURBANCE (LOD), A PORTABLE PUMP AND FILTER BAG ARE TO BE UTILIZED TO DEWATER THE AREA.
4. WITH PERIMETER CONTROLS IN PLACE, BEGIN SITE DEMOLITION PER SHEET C-100. CARE IS TO BE TAKEN WITH DEMOLITION OF PILES WITHIN THE SUBMERGED AQUATIC VEGETATION (SAV) AREA, SO AS NOT TO DAMAGE THE SAV. CONTRACTOR TO DISPOSE OF ALL MATERIAL OFF-SITE UNLESS OTHERWISE NOTED ON PLANS.
5. ALL SEDIMENT CONTROLS ARE "TO BE INSPECTED REGULARLY TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY.
6. WITH ALL SEDIMENT CONTROLS IN PLACE, AND ALL DEMOLITION COMPLETE, BEGIN CONSTRUCTION OF REVETMENT, BOAT RAMP, PILING AND FLOATING PIERS. A VIBRATORY HAMMER IS TO BE USED TO INSTALL STEEL PIPE PILES SO AS TO MINIMIZE ADVERSE IMPACTS ASSOCIATED WITH UNDERWATER NOISE.
7. INSTALL ELECTRICAL AND WATER COMPONENTS. REFER TO PLUMBING AND ELECTRICAL PLANS FOR WORK TO BE COMPLETED.
8. STABILIZE ALL DISTURBED AREAS.
9. WITH ALL AREAS STABILIZED, GAIN MDE APPROVAL PRIOR TO REMOVAL OF SEDIMENT CONTROLS.
10. WITH MDE APPROVAL, REMOVE SEDIMENT CONTROLS AND STABILIZE AREAS THAT ARE DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.
11. SUBMIT FINAL STABILIZATION PHOTOGRAPHS OF THE IMPERVIOUS REMOVAL AREA TO MDE SSPRD, AT MDE.SSPRD@MARYLAND.GOV, FOR PROJECT CLOSEOUT.

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

1. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YR FLOODPLAIN.
3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
4. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
6. RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
7. ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND AND BUFFER AREAS. THE AREAS SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
9. TO PROTECT AQUATIC SPECIES, INSTREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:
   -USE I WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
   -USE II WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD OCTOBER 1 THROUGH APRIL 30, INCLUSIVE, DURING ANY YEAR.
   -USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
11. CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION OF ALL 40 EXISTING DOCKS, GANGWAYS, AND ASSOCIATED ITEMS SUCH AS BUT NOT LIMITED TO LIGHT POLES, TIMBER PILES, LADDERS, ETC. LOCATED ON OR NEAR THE DOCKS. THESE EXTENTS ARE SHOWN ON C-100 FOR REFERENCE. ALL EXISTING LADDERS, LIFE RINGS, ETC. SHALL BE REUSED PROVIDED IN GOOD CONDITION. A TOTAL OF 33 BOAT SLIPS, BOAT RAMP, AND 2 KAYAK LAUNCHES ARE PROPOSED WITH ADA ACCESSIBILITY PROVIDED TO ALL PROPOSED PIER LOCATIONS, AS WELL AS THE RESTRIPING AND REPAINTING OF THE EXISTING ADA SPACES ADJACENT TO THE PIERS. ALL OF THIS IS TO BE COMPLETED WITHIN THE 3,344 SF LOD, REFER TO PLAN SHEETS 2 THROUGH 9 FOR ADDITIONAL INFORMATION.

GENERAL CONTRACTOR NOTES:

1. ALL MATERIALS SCHEDULE TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE.
2. OTHER THEN THE EXISTING DOCK LADDERS, NO MATERIALS WILL BE SALVAGED.
3. SHOULD DAMAGE OCCUR TO ANY EXISTING STRUCTURES OR FEATURES NOT IN THE PROJECT SCOPE, THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.
4. A UTILITY SURVEY WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE. THE GENERAL CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY EXISTING UTILITIES THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE. (TYPICAL FOR ALL EXISTING UTILITIES).

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 2 of 21

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

SIGNATURE _____ DATE _____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
936 Ridgebrook Road, Sparks, Maryland 21152
Telephone: (410) 316-7800 Fax: (410) 316-7848

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=40'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

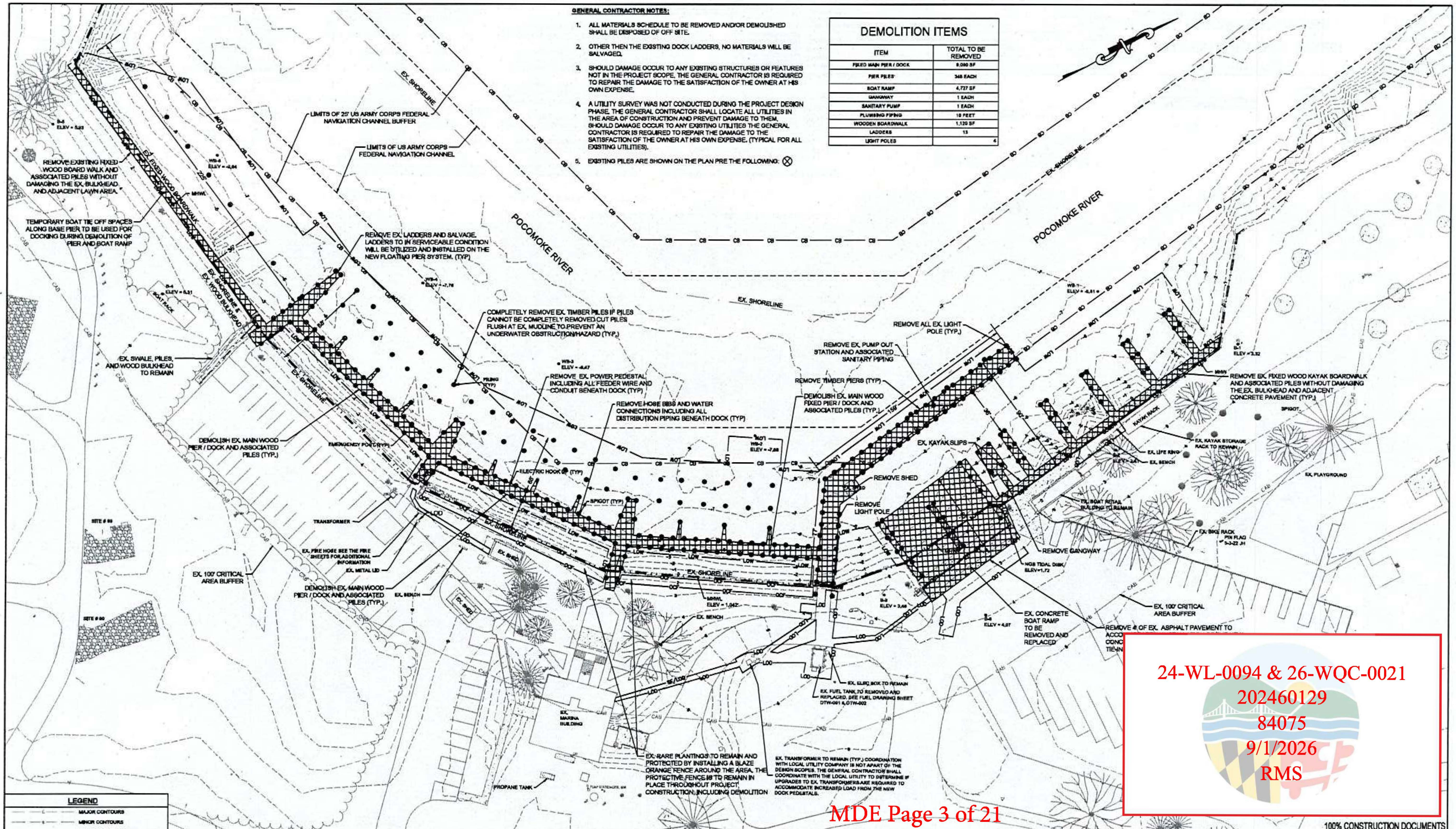
OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

SEDIMENT CONTROL NOTES
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-001
SHEET 2 OF 42
KCI PROJECT NUMBER 272202504



GENERAL CONTRACTOR NOTES:

1. ALL MATERIALS SCHEDULE TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE.
2. OTHER THEN THE EXISTING DOCK LADDERS, NO MATERIALS WILL BE SALVAGED.
3. SHOULD DAMAGE OCCUR TO ANY EXISTING STRUCTURES OR FEATURES NOT IN THE PROJECT SCOPE, THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.
4. A UTILITY SURVEY WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE. THE GENERAL CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY EXISTING UTILITIES THE GENERAL CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE. (TYPICAL FOR ALL EXISTING UTILITIES).
5. EXISTING PILES ARE SHOWN ON THE PLAN PRE THE FOLLOWING: ⊗

DEMOLITION ITEMS

ITEM	TOTAL TO BE REMOVED
FIXED MAIN PIER / DOCK	8,090 SF
PIER PILES	348 EACH
BOAT RAMP	4,727 SF
GANGWAY	1 EACH
SANITARY PUMP	1 EACH
PLUMBING PIPING	10 FEET
WOODEN BOARDWALK	1,120 SF
LADDERS	13
LIGHT POLES	4

LEGEND

— 5 —	MAJOR CONTOURS
— 4 —	MINOR CONTOURS
———	EDGE OF PAVEMENT
▬ ı ı ▬	MEAN HIGH WATER (MHW) LINE
— E —	ELECTRIC
⌣⌣⌣	FOREST/VEGETATION LINE
— LOD —	LIMIT OF DISTURBANCE
— LOW —	LIMIT OF WORK
	CONCRETE
	RARE PLANTING
○	TIMBER PILE
☼	LIGHT POLE
	BOLLARD
	EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED
⊗	EXIST. TIMBER PILE TO BE REMOVED

EXISTING SLIP BREAKDOWN

LOCATION	# SLIPS
MAIN PIER / DOCK	23 / 24
TIE OFF SPACES ALONG BASE PIER (TEMPORARY)	8
FIXED NORTH KAYAK PIER	8
KAYAK SLIPS	2
TOTAL	40

GENERAL NOTES:

1. CONTRACTOR TO REPAIR DAMAGE CAUSED AS A RESULT OF CONTRACTOR ACTIVITIES BACK TO EX. CONDITIONS.
2. CONTRACTOR TO REUSE ALL LADDERS, LIFE RINGS, ETC. PROVIDED IN GOOD CONDITION.

24-WL-0094 & 26-WQC-0021
202460129
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9/1/2026
RMS

MDE Page 3 of 21

100% CONSTRUCTION DOCUMENTS

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. ______
EXPIRATION DATE: ________

SIGNATURE: ________________ DATE: ________

KCI TECHNOLOGIES
Engineers
Planners
Scientists
Construction Managers
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone (410) 316-7800
Fax (410) 316-7888

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1" = 30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

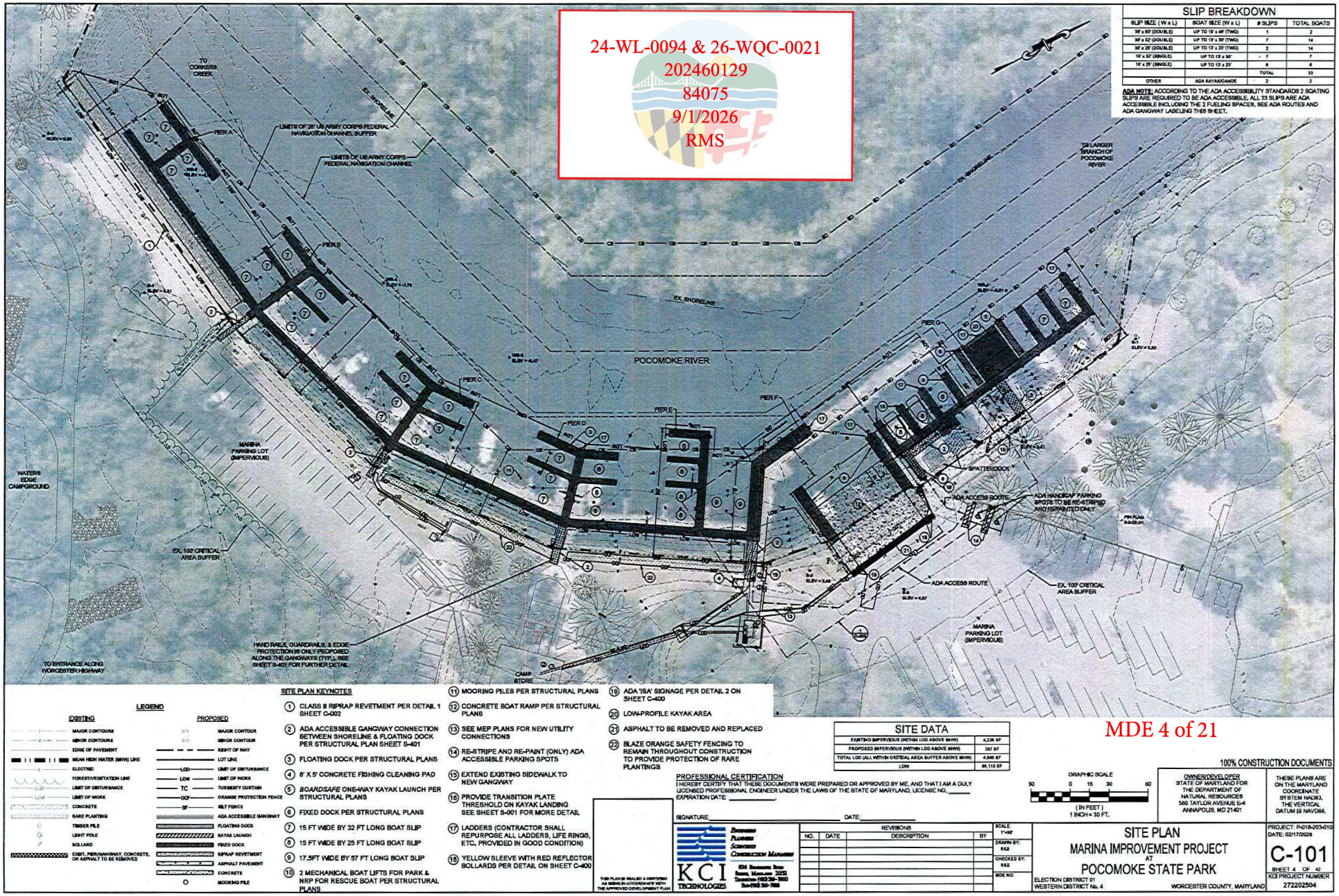
EXISTING CONDITIONS & DEMOLITION PLAN
MARINA IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

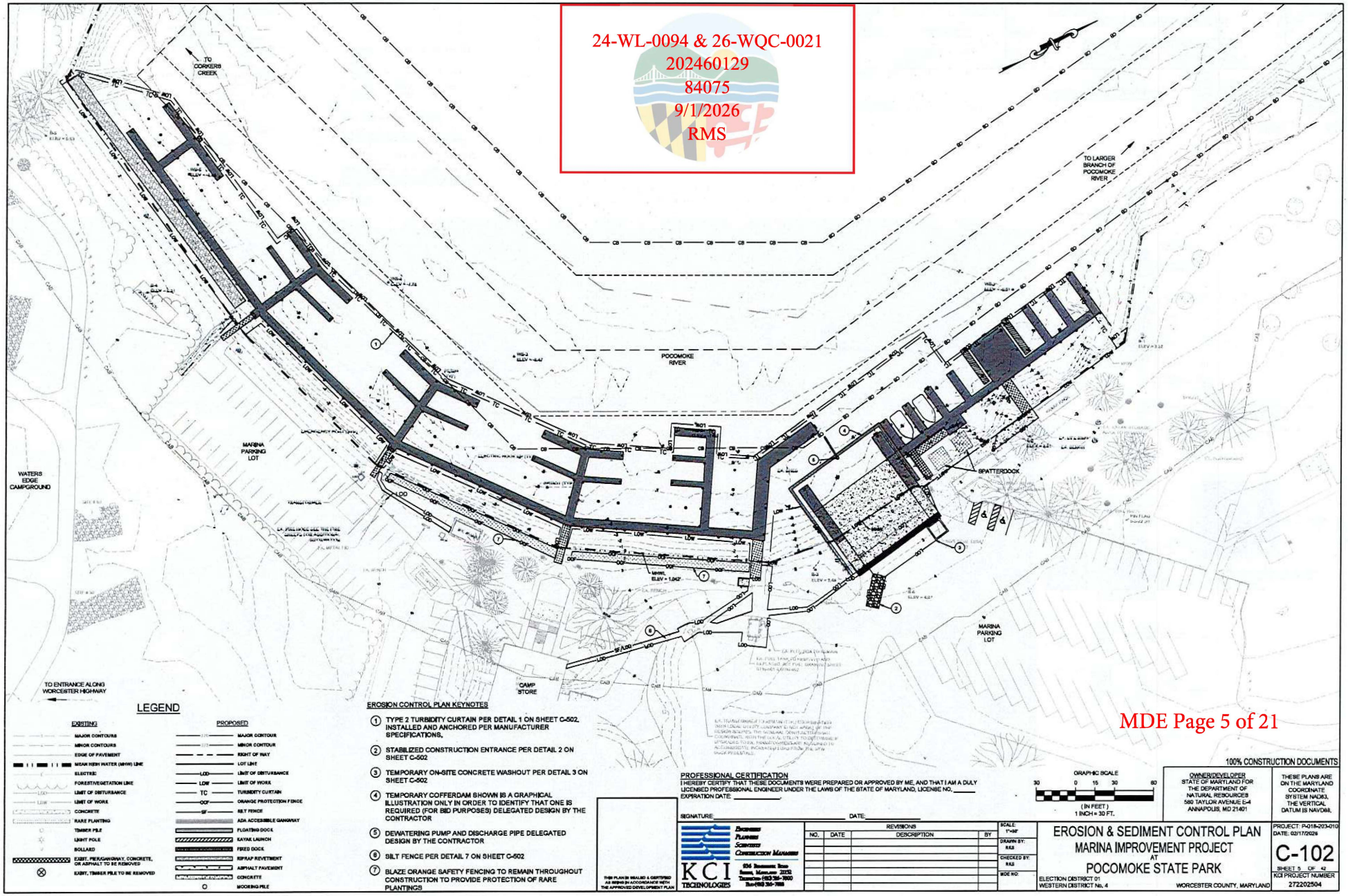
PROJECT: P-018-203-010
DATE: 02/17/2026

C-100

SHEET 3 OF 42
KCI PROJECT NUMBER
272202504


24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS
SLIP BREAKDOWN
SLIP SIZE (W x L) | BOAT SIZE (W x L) | # SLIPS | TOTAL BOATS
36' x 50' (DOUBLE) | UP TO 19' x 46' (TWO) | 1 | 2
30' x 52' (DOUBLE) | UP TO 13' x 30' (TWO) | 7 | 14
30' x 25' (DOUBLE) | UP TO 13' x 23' (TWO) | 2 | 14
19' x 53' (SINGLE) | UP TO 13' x 30' | 7 | 7
19' x 25' (SINGLE) | UP TO 13' x 23' | 6 | 6
TOTAL | | | 33
OTHER | ADA KAYAK/CANOE | 2 | 2
ADA NOTE: ACCORDING TO THE ADA ACCESSIBILITY STANDARDS 2 BOATING SLIPS ARE REQUIRED TO BE ADA ACCESSIBLE. ALL 33 SLIPS ARE ADA ACCESSIBLE INCLUDING THE 2 FUELING SPACES, SEE ADA ROUTES AND ADA GANGWAY LABELING THIS SHEET.
TO CORKER CREEK
EX. SHORELINE
LIMITS OF 28' US ARMY CORPS FEDERAL NAVIGATION CHANNEL BUFFER
LIMITS OF US ARMY CORPS FEDERAL NAVIGATION CHANNEL
PIER A
PIER B
PIER C
PIER D
PIER E
PIER F
PIER G
POCOMOKE RIVER
TO LARGER BRANCH OF POCOMOKE RIVER
MARINA PARKING LOT (IMPERVIOUS)
WATERS EDGE CAMPGROUND
EX. 100' CRITICAL AREA BUFFER
SPATTERDOCK
ADA ACCESS ROUTE
ADA HANDICAP PARKING SPOTS TO BE RE-STRIPED AND REPAINTED ONLY
HAND RAILS, GUARDRAILS, & EDGE PROTECTION IS ONLY PROPOSED ALONG THE GANGWAYS (TYP.), SEE SHEET S-401 FOR FURTHER DETAIL
TO ENTRANCE ALONG WORCESTER HIGHWAY
CAMP STORE
LEGEND
EXISTING
PROPOSED
MAJOR CONTOURS
MINOR CONTOURS
EDGE OF PAVEMENT
MEAN HIGH WATER (MHW) LINE
ELECTRIC
FORESTIVE/DETATION LINE
LIMIT OF DISTURBANCE
LIMIT OF WORK
CONCRETE
RARE PLANTING
TIMBER PILE
LIGHT POLE
BOLLARD
EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED
RIGHT OF WAY
LOT LINE
LOD
LOW
LIMIT OF DISTURBANCE
LIMIT OF WORK
TC
TURBIDITY CURTAIN
OCF
ORANGE PROTECTION FENCE
SF
SILT FENCE
ADA ACCESSIBLE GANGWAY
FLOATING DOCK
KAYAK LAUNCH
RIPRAP REVETMENT
ASPHALT PAVEMENT
CONCRETE
MOORING PILE
SITE PLAN KEYNOTES
1 CLASS II RIPRAP REVETMENT PER DETAIL 1 SHEET C-002
2 ADA ACCESSIBLE GANGWAY CONNECTION BETWEEN SHORELINE & FLOATING DOCK PER STRUCTURAL PLAN SHEET S-401
3 FLOATING DOCK PER STRUCTURAL PLANS
4 8' X 5' CONCRETE FISHING CLEANING PAD
5 BOARDSAFE ONE-WAY KAYAK LAUNCH PER STRUCTURAL PLANS
6 FIXED DOCK PER STRUCTURAL PLANS
7 15 FT WIDE BY 32 FT LONG BOAT SLIP
8 15 FT WIDE BY 25 FT LONG BOAT SLIP
9 17.5FT WIDE BY 57 FT LONG BOAT SLIP
10 2 MECHANICAL BOAT LIFTS FOR PARK & NRP FOR RESCUE BOAT PER STRUCTURAL PLANS
11 MOORING PILES PER STRUCTURAL PLANS
12 CONCRETE BOAT RAMP PER STRUCTURAL PLANS
13 SEE MEP PLANS FOR NEW UTILITY CONNECTIONS
14 RE-STRIPE AND RE-PAINT (ONLY) ADA ACCESSIBLE PARKING SPOTS
15 EXTEND EXISTING SIDEWALK TO NEW GANGWAY
16 PROVIDE TRANSITION PLATE THRESHOLD ON KAYAK LANDING SEE SHEET S-001 FOR MORE DETAIL
17 LADDERS (CONTRACTOR SHALL REPURPOSE ALL LADDERS, LIFE RINGS, ETC. PROVIDED IN GOOD CONDITION)
18 YELLOW SLEEVE WITH RED REFLECTOR BOLLARDS PER DETAIL ON SHEET C-400
19 ADA 'ISA' SIGNAGE PER DETAIL 2 ON SHEET C-400
20 LOW-PROFILE KAYAK AREA
21 ASPHALT TO BE REMOVED AND REPLACED
22 BLAZE ORANGE SAFETY FENCING TO REMAIN THROUGHOUT CONSTRUCTION TO PROVIDE PROTECTION OF RARE PLANTINGS
SITE DATA
EXISTING IMPERVIOUS (WITHIN LOD ABOVE MHW) 4,226 SF
PROPOSED IMPERVIOUS (WITHIN LOD ABOVE MHW) 397 SF
TOTAL LOD (ALL WITHIN CRITICAL AREA BUFFER ABOVE MHW) 4,646 SF
LOW 88,110 SF
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____
SIGNATURE_____ DATE_____
THIS PLAN IS REALIZED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN
KCI TECHNOLOGIES
REVISIONS
NO. | DATE | DESCRIPTION | BY
SCALE: 1"=30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:
GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.
100% CONSTRUCTION DOCUMENTS
OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.
SITE PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND
PROJECT: P-018-203-010
DATE: 02/17/2026
C-101
SHEET 4 OF 42
KCI PROJECT NUMBER
272202504
MDE 4 of 21

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



LEGEND

EXISTING	PROPOSED
MAJOR CONTOURS	MAJOR CONTOUR
MINOR CONTOURS	MINOR CONTOUR
EDGE OF PAVEMENT	RIGHT OF WAY
MEAN HIGH WATER (MHW) LINE	LOT LINE
ELECTRIC	LOD — LIMIT OF DISTURBANCE
FOREST/VEGETATION LINE	LOW — LIMIT OF WORK
LIMIT OF DISTURBANCE	TC — TURBIDITY CURTAIN
LIMIT OF WORK	OOF — ORANGE PROTECTION FENCE
CONCRETE	SF — SILT FENCE
RARE PLANTING	ADA ACCESSIBLE GANGWAY
TIMBER PILE	FLOATING DOCK
LIGHT POLE	KAYAK LAUNCH
BOLLARD	FIXED DOCK
EXIST. PIER/GANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED	RIPRAP REVETMENT
EXIST. TIMBER PILE TO BE REMOVED	ASPHALT PAVEMENT
	CONCRETE
	MOORING PILE

EROSION CONTROL PLAN KEYNOTES

1. TYPE 2 TURBIDITY CURTAIN PER DETAIL 1 ON SHEET C-502, INSTALLED AND ANCHORED PER MANUFACTURER SPECIFICATIONS.
2. STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2 ON SHEET C-502
3. TEMPORARY ON-SITE CONCRETE WASHOUT PER DETAIL 3 ON SHEET C-502
4. TEMPORARY COFFERDAM SHOWN IS A GRAPHICAL ILLUSTRATION ONLY IN ORDER TO IDENTIFY THAT ONE IS REQUIRED (FOR BID PURPOSES) DELEGATED DESIGN BY THE CONTRACTOR
5. DEWATERING PUMP AND DISCHARGE PIPE DELEGATED DESIGN BY THE CONTRACTOR
6. SILT FENCE PER DETAIL 7 ON SHEET C-502
7. BLAZE ORANGE SAFETY FENCING TO REMAIN THROUGHOUT CONSTRUCTION TO PROVIDE PROTECTION OF RARE PLANTINGS

MDE Page 5 of 21

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
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SIGNATURE: _____ DATE: _____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES — ENGINEERS, PLANNERS, SURVEYORS, CONSTRUCTION MANAGERS
936 Ridgebrook Road, Sparks, Maryland 21152
Telephone: (410) 316-7800 Fax: (410) 316-7898

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RKS
CHECKED BY: RKS
MDE NO:

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 INCH = 30 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

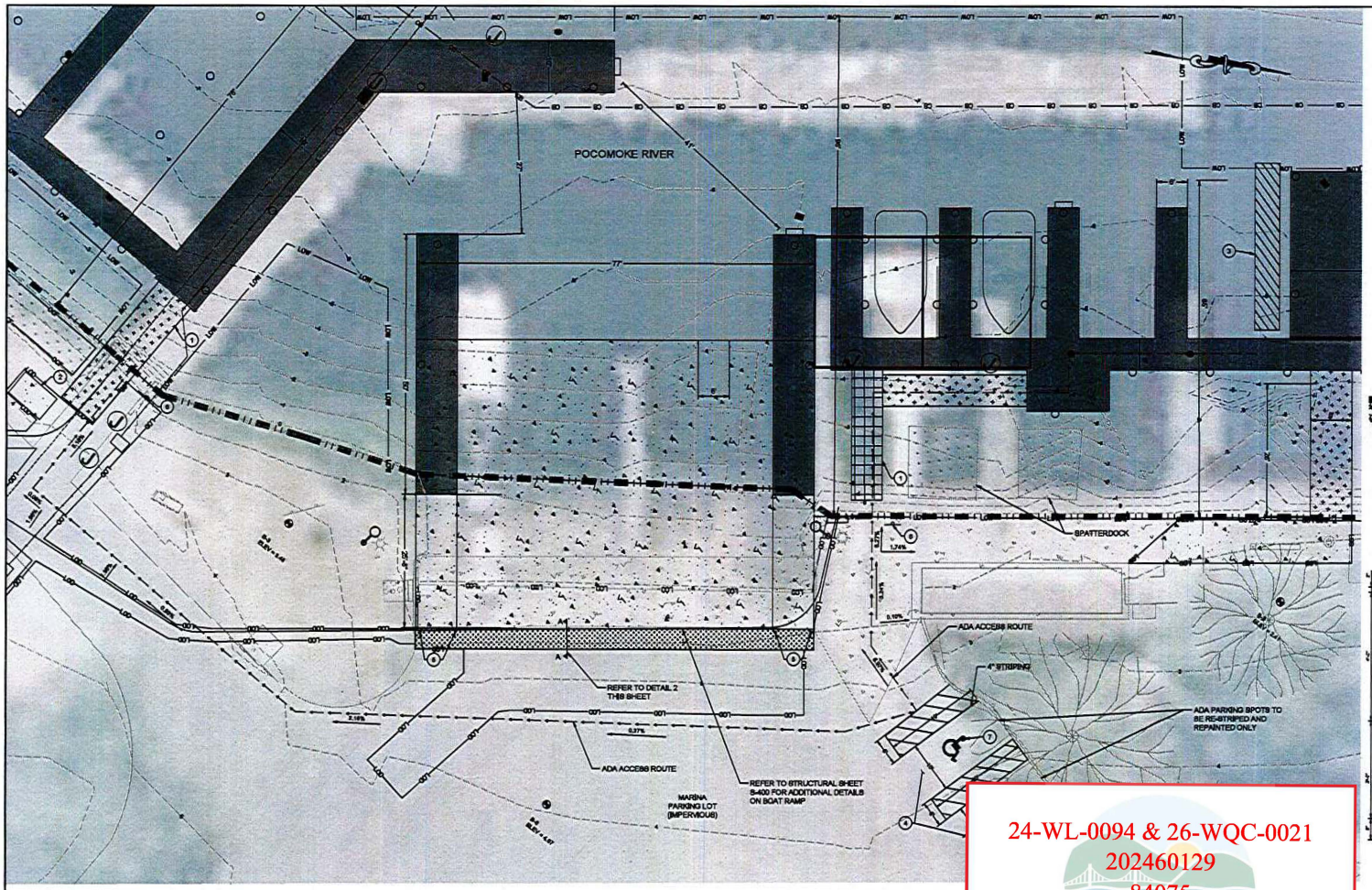
EROSION & SEDIMENT CONTROL PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

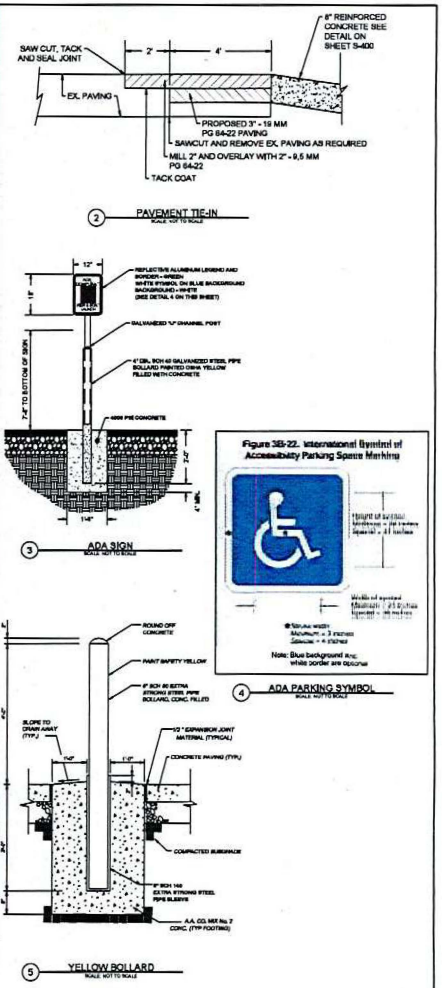
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026

C-102
SHEET 5 OF 42

KCI PROJECT NUMBER
272202504





1 ENLARGED ADA ACCESS PLAN

LEGEND

EXISTING	PROPOSED
MAJOR CONTOURS	MAJOR CONTOUR
MINOR CONTOURS	MINOR CONTOUR
EDGE OF PAVEMENT	RIGHT OF WAY
MEAN HIGH WATER (MHW) LINE	LOT LINE
ELECTRIC	LOD LIMIT OF DISTURBANCE
FOREST/VEGETATION LINE	LOW LIMIT OF WORK
LIMIT OF DISTURBANCE	TC TURBIDITY CURTAIN
LIMIT OF WORK	ORANGE PROTECTION FENCE
CONCRETE	SF SILT FENCE
RAKE PLANTING	ADA ACCESSIBLE GANGWAY
TIMBER PILE	FLOATING DOCK
LIGHT POLE	KAYAK LAUNCH
BOLLARD	FIXED DOCK
EXIST., PERGANGWAY, CONCRETE, OR ASPHALT TO BE REMOVED	RIPRAP REVETMENT
	ASPHALT PAVEMENT

ADA PLAN KEYNOTES

1. ADA ACCESSIBLE GANGWAY CONNECTION BETWEEN SHORELINE & FLOATING DOCK PER STRUCTURAL PLAN SHEET S-401
2. 8' X 5' CONCRETE FISHING CLEANING PAD
3. *BOARDSAFE* ONE-WAY KAYAK LAUNCH PER STRUCTURAL PLANS
4. RE-STRIPE AND RE-PAINT (ONLY) ADA ACCESSIBLE PARKING SPOTS
5. YELLOW SLEEVE WITH RED REFLECTOR BOLLARDS PER DETAIL 3 THIS SHEET
6. ADA "ISA" SIGNAGE PER DETAIL 1 THIS SHEET
7. ADA PARKING SYMBOL SEE THIS SHEET

24-WL-0094 & 26-WQC-0021
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84075
9/1/2026
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MDE Page 6 of 21

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
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SIGNATURE _____ DATE: _____

THIS PLAN IS VALID & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
Engineers Planners Surveyors Construction Managers
936 Ironmaster Drive Suite 1 Salisbury, Maryland 21801 Telephone: (410) 546-9000 Fax: (410) 546-7886

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 INCH = 10 FT.

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

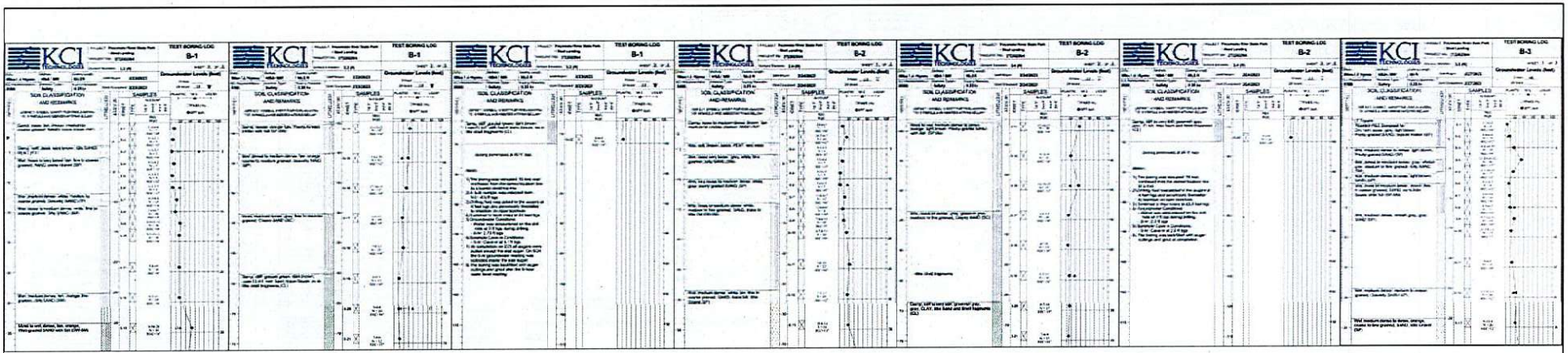
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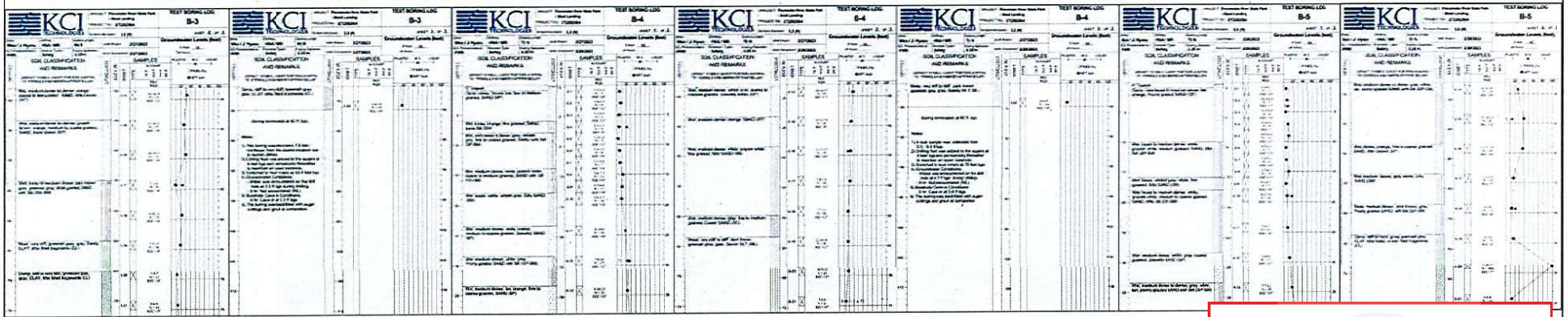
REVISIONS			
NO.	DATE	DESCRIPTION	BY

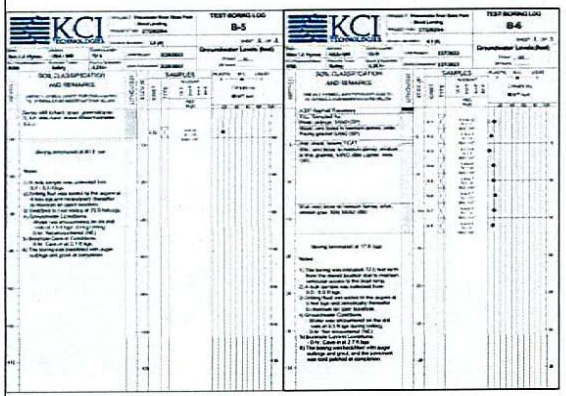
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MDE NO:

ENLARGED PARCEL ADA PLAN
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
C-400
SHEET 6 OF 42
KCI PROJECT NUMBER
272202504



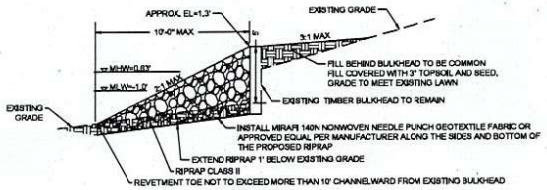




NOTES:

BORINGS ARE LOCATED ON SHEET C-100 AND ARE DESIGNATED AS FOLLOWS:

- WB-XX WATER BORINGS
- B-XX LAND BORINGS



1 CLASS II RIPRAP REVETMENT
SCALE: 1"=5'

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 7 of 21

100% CONSTRUCTION DOCUMENTS

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SIGNATURE: ____ DATE: ____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
Engineers
Planners
Surveyors
Construction Managers
936 Ridgebrook Road
Sparks, Maryland 21152
Tel: (410) 316-7800
Fax: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=30'
DRAWN BY: RKS
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MDE NO:

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

SITE DETAILS
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

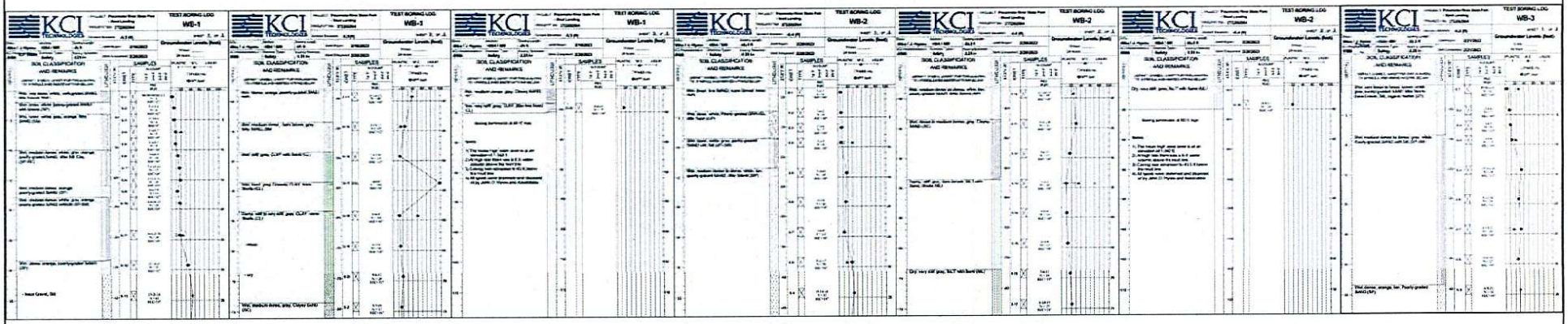
ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

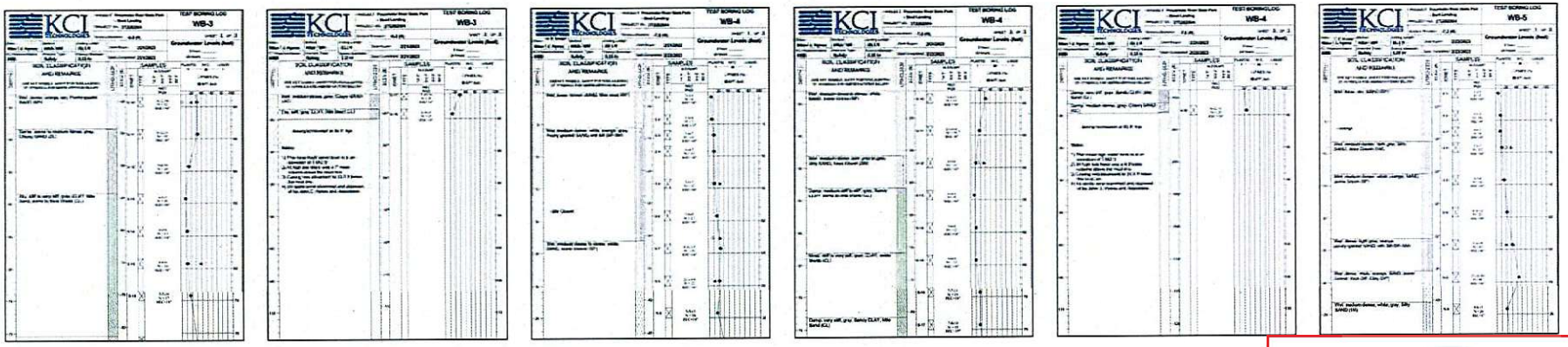
PROJECT: P-018-203-010
DATE: 02/7/2026

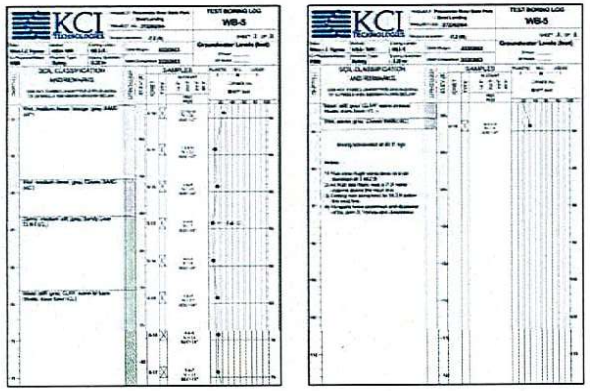
C-500

SHEET 7 OF 42

KCI PROJECT NUMBER
272202504







NOTES:

BORINGS ARE LOCATED ON SHEET C-100 AND ARE DESIGNATED AS FOLLOWS:

- WB-XX: WATER BORINGS
- B-XX: LAND BORINGS

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION

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SIGNATURE: _____ DATE: _____

MDE Page 8 of 21

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SURVEYORS
CONSTRUCTION MANAGERS
104 Sunsweet Drive
Suite 101
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7898

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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DRAWN BY: KKS
CHECKED BY: KKS
MDE NO:

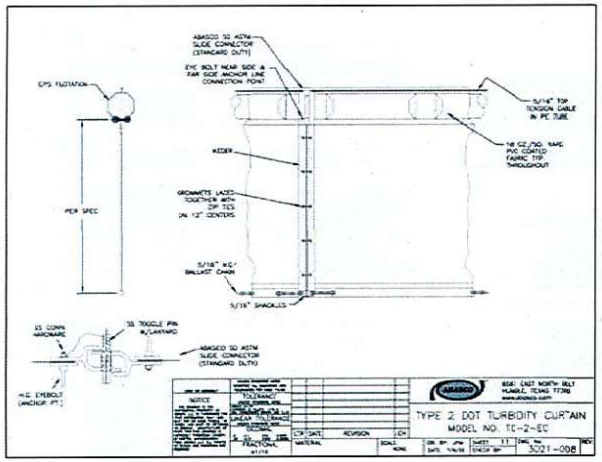
SITE DETAILS
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

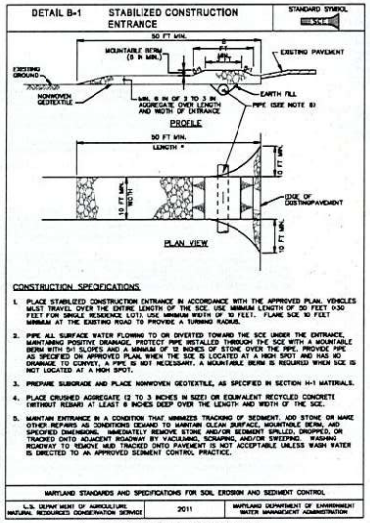
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DATE: 02/17/2026

C-501

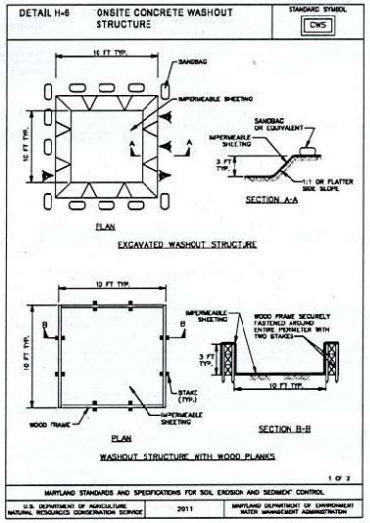
SHEET 8 OF 42
KCI PROJECT NUMBER
272202504



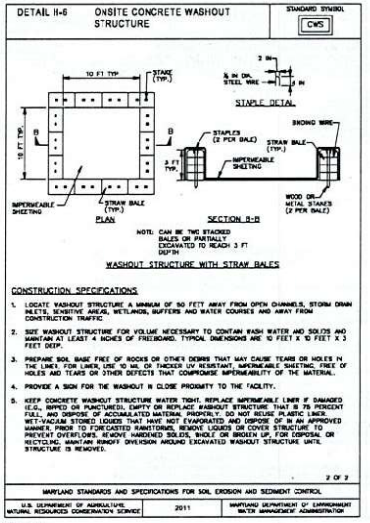
1 TURBIDITY CURTAIN

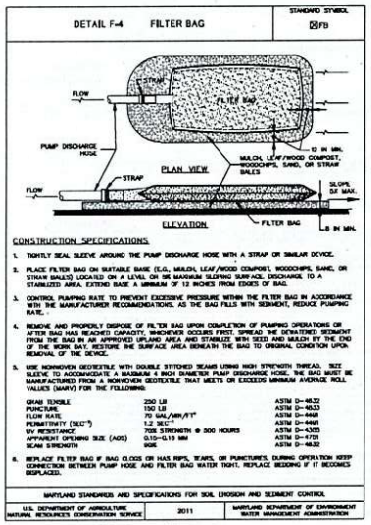


2 STABILIZED CONSTRUCTION ENTRANCE

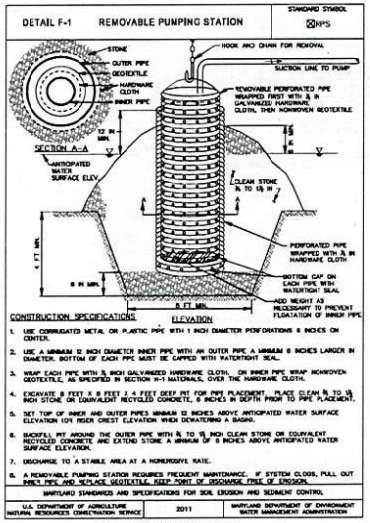


3 ONSITE CONCRETE WASHOUT

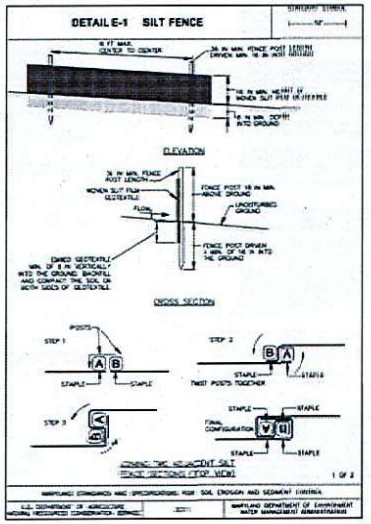




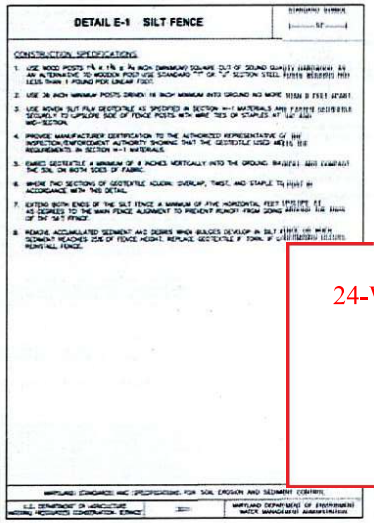
5 FILTER BAG



6 DEWATERING PUMP



7 SILT FENCE



24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

SIGNATURE: _____ DATE: _____

THIS PLAN IS VALID & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS PLANNERS SURVEYORS CONSTRUCTION MANAGERS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: 1"=0'
DRAWN BY: RKS
CHECKED BY: RKS
BDE NO:

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

SEDIMENT CONTROL DETAILS
MARINA IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No. 4
WORCESTER COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026

C-502

SHEET 9 OF 42
KCI PROJECT NUMBER 272202504

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

A. SEE CIVIL DRAWINGS G-100 FOR ELEVATIONS SET AT MEAN LOW WATER.

B. ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS RELATING TO THE WORK SHALL BE FIELD VERIFIED BY THE CONTRACTOR, ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ORDERING MATERIALS AND STARTING THE WORK.

C. STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF THE ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC)2021.

D. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS, INCLUDING THE FEDERAL DEPARTMENT OF GENERAL SERVICES, NRG, DNR, STANDARD SPECIFICATIONS FOR CONSTRUCTION.

E. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED AND INCLUDED IN THE PROJECT.

F. IN THE CASE OF CONFLICTS BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

G. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

H. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS/MEASURES TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM DAMAGES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES THAT MAY OCCUR DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DONE TO EXISTING STRUCTURES, UTILITIES AND ROADWAYS THAT ARE NOT PART OF THIS SPECIFIC PROJECT, ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

I. JOB SAFETY, CONSTRUCTION PROCEDURES AND CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE TO ENSURE JOB-SITE SAFETY. ALL PROPOSED STAGING AREAS SHALL BE COORDINATED WITH THE ENGINEER AND OWNER BEFORE STARTING THE WORK.

J. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE, AND MUNICIPAL REGULATIONS. ENVIRONMENTAL CONTROLS SHALL INCLUDE BUT NOT BE LIMITED TO TURBIDITY, DUST AND DEBRIS.

K. STORAGE, FUELING AND LUBRICATION OF EQUIPMENT AND MOTORIZED VEHICLES SHALL BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILL AND EVAPORATION. FUEL, LUBRICANTS AND OIL SHALL BE MANAGED AND STORED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. THERE SHALL BE NO STORAGE OF FUEL ON THE PROJECT SITE. FUEL MUST BE BROUGHT TO THE SITE AS NEEDED.

L. INSPECTION OF THE COMPLETED WORK WILL BE PERFORMED FOLLOWING NOTIFICATION FROM THE CONTRACTOR THAT A SPECIFIED PORTION OF THE WORK HAS BEEN COMPLETED.

M. CONTRACTOR MUST DISPLAY ON SITE THAT APPROPRIATE CONSTRUCTION PLACARDS AS REQUIRED BY THE PERMITTING AGENCIES HAVING JURISDICTION THROUGHOUT THE PROJECT.

BUILDING CODES:

A. THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND ALL SUBSEQUENT SUPPLEMENTS.
B. GOVERNING LOCAL BUILDING CODES AND AMENDMENTS.

EXISTING STRUCTURES:

A. EXISTING PLANS:

1. DETAILS, DIMENSIONS, AND ELEVATIONS INDICATE EXISTING CONDITIONS AS KNOWN (SHOWN ON CONSTRUCTION DOCUMENTS DATED 1/1246 BY GEORGE, MILES & BUHR ARCHITECTS & ENGINEERS).
2. EXISTING INFORMATION SHOWN ON NEW CONSTRUCTION DOCUMENTS IS NOT INTENDED TO BE "AS BUILT" INFORMATION AND THE ACTUAL CONSTRUCTION MAY DIFFER FROM THAT SHOWN.

B. CONTRACTOR RESPONSIBILITIES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MINOR VARIATIONS CAN BE EXPECTED AND ANY REQUIRED CHANGES TO THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION. THE DESIGN OF ALL TEMPORARY BRACING AND SHORING IS THE CONTRACTOR'S RESPONSIBILITY.
3. THE CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF AREAS EXHIBITING DISTRESS OR FAILURE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REPAIRS FOR ANY DAMAGE TO THE EXISTING SITE THAT RESULTS DURING CONSTRUCTION.

SPECIAL INSPECTIONS

A. ALL SPECIAL INSPECTIONS SHOULD ABIDE BY IBC 2021 AND ALL SUBSEQUENT CODES TO ENSURE PROPER QUALITY CONTROL DURING CONSTRUCTION.

MISCELLANEOUS

A. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM, SHOULD DAMAGE OCCUR TO ANY UTILITIES, THE CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.

B. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.

C. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS.

D. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.

E. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.

F. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

G. CONTRACT SPECIFICATIONS SUPERCEED ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS.

CAST IN PLACE CONCRETE:

A. CODES AND STANDARDS:

1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
2. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
3. ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
4. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING"
5. ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING"
6. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"
7. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
8. CRSI "MANUAL OF STANDARD PRACTICE"

B. REINFORCING MATERIALS:

1.	STEEL REINFORCEMENT:	ASTM A 615, GRADE 60, DEFORMED
2.	PLAIN-STEEL WELDED WIRE REINFORCEMENT:	ASTM A 185

C. CONCRETE MATERIALS:

1.	PORTLAND CEMENT:	ASTM C 150, TYPE I/II
2.	FLY ASH:	ASTM C 618, CLASS F
3.	GROUND GRANULATED BLAST FURNACE SLAG:	ASTM C 989, GRADE 120
4.	NORMAL WEIGHT AGGREGATES:	ASTM C 33
	a. MAXIMUM COARSE AGGREGATE SIZE:	3/4 INCH NOMINAL
5.	WATER:	ASTM C 94, POTABLE

D. ADMIXTURES:

1.	AIR ENTRAINMENT:	ASTM C 260
2.	WATER-REDUCER:	ASTM C 494
3.	SILICA FUME:	ASTM C 1240
4.	NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED.	

E. CONCRETE MIXTURES:

1. FLY ASH, POZZOLAN, GROUND GRANULATED BLAST FURNACE SLAG, AND SILICA FUME MAY BE USED AS NEEDED TO REDUCE THE TOTAL AMOUNT OF PORTLAND CEMENT WHICH WOULD OTHERWISE BE USED BY NOT MORE THAN 40 PERCENT.
   a. MAXIMUM SUBSTITUTION OF FLY ASH SHALL BE 20 PERCENT.
   b. MAXIMUM SUBSTITUTION OF SILICA FUME SHALL BE 10 PERCENT.

F. PROPORTION NORMAL WEIGHT CONCRETE MIXES AS FOLLOWS:

LOCATION	28 DAY STRENGTH (f'c)	WATER-CEMENTIOUS RATIO	SLUMP LIMIT	AIR CONTENT
FOUNDATIONS, WALLS BELOW GRADE	3500 PSI	0.55	4" ± 1"	4.5% ± 1.5%
SLABS ON GRADE (BOAT RAMP)	5000 PSI	0.40	4" ± 1"	5.0% ± 1.5%
SLABS ON GRADE (OTHER STRUCTURES)	4000 PSI	0.40	4" ± 1"	5.0% ± 1.5%

G. ALL CONCRETE MIX DESIGNS, INCLUDING CEMENT CONTENT, WATER CEMENT RATIO, FINE AND COARSE AGGREGATE CONTENT AND ALL ADMIXTURES, SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO PLACING FIRST CONCRETE.

H. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY THE TESTING AGENCY. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE PLACING OF ANY CONCRETE.

I. THE CONCRETE STRUCTURE SHALL NOT SUPPORT THE DESIGN LIVE LOAD FOR A MINIMUM OF 28 DAYS AND ALL SHORING AND RESHORING REQUIRED TO SUPPORT THE CONCRETE STRUCTURE DURING CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR. SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF MARYLAND, SHALL BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL INDICATE THE TYPE, EXTENT, SIZE, AND LOCATION OF ALL SHORING AND RESHORING AS WELL AS THE SEQUENCE OF CONSTRUCTION.

J. MINIMUM COVER FOR ALL REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:

FOUNDATIONS	3 INCHES
SLABS ON GRADE	2 INCHES (TOP)

FLOATING PIER DESIGN AND LOAD CONDITIONS:

A. VERTICAL LOADS:

1. DEAD LOADS SHALL CONSIST OF THE ENTIRE WEIGHT OF THE FLOATING STRUCTURE, INCLUDING UTILITIES RAMPS, DOCK BOXES AND OTHER ACCESSORIES.
2. DECK SURFACE AND STRUCTURAL FRAME LIVE LOAD SHALL BE EQUAL TO 60 PSF APPLIED TO THE FULL SURFACE AREA OF THE DECK.
3. BRIDGES AND RAMPS FOUR FEET (4') IN WIDTH OR LESS SHALL BE DESIGNED FOR 40 PSF APPLIED TO THE FULL SURFACE AREA AND 60 PSF FOR WIDTHS OVER FOUR FEET. BRIDGE AND RAMP HANDRAILS SHALL BE DESIGNED FOR A 200 POUND LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ALONG THE HANDRAIL.
4. FLOTATION SHALL BE DESIGNED TO SUPPORT THE DEAD LOAD PLUS 30 PSF LIVE LOAD APPLIED TO THE FULL AREA OF THE DECK SURFACE.
5. FREEBOARD UNDER DEAD LOAD CONDITIONS ONLY SHALL EQUAL 20" +/- 1". FREEBOARD UNDER COMBINED DEAD LOAD AND 30 LBS. PER SQUARE FOOT UNIFORMLY DISTRIBUTED LIVE LOAD SHALL NOT BE LESS THAN 8".
6. CONCENTRATED LIVE LOAD: 400 LBS. AT ANY ONE POINT ON THE DECK SHALL NOT TILT THE DOCK MORE THAN SIX DEGREES FROM HORIZONTAL.

B. HORIZONTAL LOADS:

1. A UNIFORM HORIZONTAL WIND LOADING FROM ANY DIRECTION SHALL BE CALCULATED AT 15 PSF ON ALL PROJECTED SURFACES, ASSURING 100% BOAT OCCUPANCY. CRAFT PROFILE HEIGHTS SHALL BE DETERMINED FROM FIGURE 6-5, PAGE 106, ASCE REPORT NO. 60 REVISED. FULL WIND LOAD IS TO BE APPLIED TO ALL UNSHIELDED DOCK AND BOAT PROFILES AND 10% OF THE WIND LOAD IS TO BE APPLIED TO EACH SHIELDED BOAT PROFILE.
2. A HORIZONTAL LOAD DUE TO IMPACT ON A FINGER DOCK SHALL BE THE RESULT OF THE LARGEST BERTHED CRAFT NORMALLY USING THE ADJACENT SLIP STRIKING THE END OF THE FINGER DOCK 10 DEGREES OFF CENTER LINE. FOR PURPOSES OF CALCULATIONS, THE WEIGHT OF THE CRAFT SHALL BE 12 TIMES THE FINGER LENGTH SQUARED (12L), THE CRAFT SHALL BE CONSIDERED MOVING AT A SPEED OF 3 FPS.

BRIEF STRUCTURAL DESIGN NARRATIVE:

A. DESIGN ANCHOR PILES TO ACCOMMODATE FLOATING DOCK LAYOUT, SMALL ADA FIXED WOOD APPROACH PIER, AND TWO (2) NRP BOAT LIFTS.

B. PROVIDE DESIGN CRITERIA (PERFORMANCE CRITERIA) FOR DELEGATED DESIGN ITEMS SUCH AS FLOATING DOCKS, DOCK COMPONENETS, GANGWAYS, AND HINGES.

C. PROVIDE DESIGNS FOR CONCRETE GANGWAY ABUTMENTS FOR SUPPORT ALONG SHORELINE, CONCRETE RAMP BOAT LAUNCHING PAD, SUBMERGANT BOARDING ACCESS ABUTMENTS, AND CONCRETE PAD FOR NEW FISH CLEANING STATION.

FLOATING PIER DESIGN AND LOAD CRITERIA:

A. WORK INCLUDED

1. DELEGATED DESIGN; COMPLETE PRE-ENGINEERED FLOATING DOCK SYSTEM, ACCESS RAMPS AND ANCHORAGE.

B. APPLICABLE STANDARDS

1. NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION"
2. WEST COAST LUMBER INSPECTION BUREAU: GRADING AND DRESSING RULES FOR LUMBER
3. AMERICAN WOOD PRESERVERS' ASSOCIATIONS STANDARDS C1 AND C18
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION
   a. AMERICAN SOCIETY FOR TESTING MATERIALS
   b. A36 SPECIFICATIONS FOR STRUCTURAL STEEL
   c. A123 SPECIFICATION FOR ZINC COATINGS (HOT-DIP) ON IRON AND STEEL PRODUCTS
   d. A153 SPECIFICATION FOR ZINC COATINGS (HOT-DIP) ON IRON AND STEEL HARDWARE

C. EXPERIENCE

1. THE FLOATING DOCK SYSTEM AND ACCESS RAMPS SHALL BE MANUFACTURED BY MEECO SULLIVAN, LLC, P.O. BOX 639, 3 CHANCELLOR LANE, WARWICK, NY, 845-727', OR AN APPROVED EQUAL HAVING A MINIMUM OF TEN YEARS' EXPERIENCE IN THE MANUFACTURING AND INSTALLATION OF FLOATING DOCK SYSTEMS, THAT ARE THE SAME TYPE AS PROPOSED FOR THIS PROJECT. GNAT LEAST THREE OTHER INSTALLATIONS. DOCKS SHALL BE COMPLETELY FABRICATED IN THE MANUFACTURERS FACILITY AND SHIPPED TO SITE COMPLETE WITH DECKING AND FLOTATION ATTACHED READY FOR OFFLOAD DIRECT INTO WATER. KNOCKED DOWN FRAMING SYSTEMS ASSEMBLED AT SITE WILL NOT BE ALLOWED, PANELIZED DECKING SYSTEMS WILL NOT BE ALLOWED.

D. SUBMITTALS

1. A GENERAL LAYOUT DRAWING OF THE PROPOSED FLOATING STRUCTURES GIVING ALL DIMENSIONS, CLEARANCES AND ANCHORAGE LOCATIONS.
2. GENERAL CONSTRUCTION DRAWINGS SHOWING (1) MAIN WALKWAY SECTION & (1) TYPICAL FINGER PIER ALONG WITH ANY MISCELLANEOUS DETAILS RELATIVE TO THE PROJECT.

E. MATERIALS AND CONSTRUCTION

1. WOOD FRAMING:
   a. ALL STRUCTURAL BEAMS, BRACING AND DECK SUPPORTS TO BE SOUTHERN YELLOW PINE GRADE #1 OR BETTER EXTERIOR AND GRADE #2 OR BETTER INTERIOR, IN ACCORDANCE WITH THE RULES OF THE WEST COAST BUREAU OF TIMBER GRADE AND INSPECTION FOR SOUTHERN YELLOW PINE. INDIVIDUAL MEMBERS SHALL BE MINIMUM 2" X 6" FOR HORIZONTAL MEMBERS AND 2" X 8" FOR VERTICAL MEMBERS.
   b. ALL DECKING TO BE SOUTHERN YELLOW PINE 2" X 6" GRADE # 1 OR BETTER, PRESSURE TREATMENT FOR USE CATEGORY 4S, AC IN ACCORDANCE WITH AWPA USE CATEGORY SYSTEM.
   c. ALL FRAMING LUMBER TO BE PRESSURE TREATED TO 0.6 PCF RETENTION WITH CHROMATED COPPER ARSENATE (CCA). TREATMENT SHALL BE FULL LENGTH UNDER PRESSURE BY THE EMPTY-CELL OR FULL-CELL PROCESS IN ACCORDANCE WITH AWPA STANDARDS C1 AND C18 DECKING.
   d. ALL LUMBER TO BE KILN DRIED AFTER TREATMENT.
   e. ALL LUMBER SHALL BE SOUND, WELL SEASONED, AND STRAIGHT GRAINED, FREE FROM SHAKES AND LARGE OR LOOSE KNOTS AND SHALL HAVE NO DEFECTS WHICH WILL IMPAIR ITS STRENGTH OR DURABILITY FOR THE PURPOSE INTENDED.
   f. ALL STRUCTURAL SIDE BEAMS TO BE OF MECHANICAL LAMINATED CONSTRUCTION, MINIMUM 3 MEMBERS, MINIMUM SIZE OF EACH MEMBER TO BE 2" X 8" WITH A 2" X 10" OUTER MEMBER.
   g. ALL LUMBER TO BE SURFACED FOUR SIDES.
   h. FOR TORSIONAL RIGIDITY ON MAIN WALKWAYS A COMBINATION OF HORIZONTALLY LAID TIMBER CROSS MEMBERS AND DIAGONALS WITH INTERIOR STEEL CROSS BRACKETS SHALL BE UTILIZED. FINGER DOCKS SHALL HAVE MINIMUM 4" X 2" TUBE CROSS MEMBERS WITH MINIMUM 2" X 2" STEEL TUBE DIAGONAL MEMBERS IN ADDITION TO HORIZONTAL TIMBER BRACING USED ON MAIN WALKWAYS.
   i. SECTIONS TO BE FABRICATED IN FULL LENGTH WITH LONGITUDINAL SPLICING. (MONOLITHIC REQUIRE AT MINIMUM (2) 2" X 4" X 8' LONG TIMBER SPLICE WITH INTERIOR BEAMS SPLICED WITH MINIMUM 2" X 4" X 8' TO GIVE ADEQUATE DEPTH TO UTILITY CHANNELS 2"x4" OR 4"x4" TIMBER MEMBERS WILL NOT BE ALLOWED IN CONSTRUCTION OF MAIN WALKWAYS.
2. FLOTATION
   a. ALL UNITS WILL BE ROTATIONALLY MOLDED FOR SEAMLESS ONE PIECE CONSTRUCTION.
   b. ENCASEMENT SHALL BE MANUFACTURED FROM LINEAR VIRGIN POLYETHYLENE RESIN CONTAINING UV RAY INHIBITORS AND CARBON BLACK PIGMENT. NOMINAL WALL THICKNESS SHALL BE .150".
   c. FOAM CORE SHALL BE EXPANDED POLYSTYRENE FOAM WITH A MINIMUM OF 1.0 # PER CUBIC FOOT DENSITY.
3. FLOTATION PERFORMANCE:
   a. FLOTATION UNITS SHALL BE DESIGNED TO SIGNIFICANTLY MAINTAIN THE DESIRED BUOYANCY OF THE FLOTATION EVEN IF PUNCTURED OR CRACKED. FLOTATION UNIT AND FRAME TO ACT AS ONE INTEGRAL UNIT.
4. STEEL COMPONENTS:
   a. ALL STRUCTURAL STEEL CONNECTORS, BRACKETS AND MISCELLANEOUS PARTS TO BE FABRICATED FROM ASTM A 36 GRADE STEEL, INSTALLED AND FASTENED IN FACTORY BEFORE SHIPPING.
   b. BOLTS, NUTS AND WASHERS:
   c. ALL BOLTS, NUTS AND WASHERS SHALL BE FABRICATED ACCORDING TO ASTM A 307 AND SHALL BE OF SUFFICIENT SIZE, SHAPE AND LENGTH FOR THEIR INTENDED USE. FLOTATION FASTENERS TO BE MINIMUM 1/2" DIAMETER.
5. FINISH OF STEEL AND BOLTS:
   a. ALL STRUCTURAL STEEL, ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE TO ASTM A 123. A MINIMUM COATING OF 2 OUNCES PER SQUARE FOOT SHALL BE APPLIED.
7. DECK:
   a. ALL DECK SHALL BE 2" COMPOSITE DECK FOR THE FULL DOCK LENGTH.
8. CLEATS:
   a. ALL CLEATS SHALL BE 10", 12", OR 14" MALLEABLE CAST IRON, CONFORMING TO ASTM A 47. CLEATS SHALL BE FASTENED TO INTERIOR STEEL ANGLE WITH (2) 3/8" DIAMETER THROUGH BOLTS.

WOOD FRAMING - FIXED WOOD DOCK:

A. CODES AND STANDARDS:
   1. "NATIONAL DESIGN SPECIFICATIONS" PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
   2. NIST'S VOLUNTARY PRODUCT STANDARD DOC PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD"

B. AMERICAN WOOD PRESERVER'S ASSOCIATION (APWA) STANDARD

C. MATERIALS (UNADJUSTED VALUES FOR 12" DEPTH):
   1. DIMENSION LUMBER: NO. 2 SOUTHERN PINE AT 19 PERCENT MOISTURE CONTENT OR APPROVED EQUAL

Fb:	Fv:	Fc(perp):	Fc(parallel):	E:	E:
975 PSI	175 PSI	565 PSI	1455 PSI	550 PSI	1600 KSI

   2. PRESERVATIVE TREATMENT BY PRESSURE PROCESS (P.T.) LUMBER: AWPA U1
      a. EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND: USE CATEGORY UC3

D. SUBMITTALS:
   1. WOOD PRESERVATIVE TREATMENT DATA, INCLUDING CERTIFICATION BY TREATING PLANT THAT MATERIALS COMPLY WITH REQUIREMENTS.
   2. MATERIAL CERTIFICATES FOR LUMBER SPECIFIED TO COMPLY WITH MINIMUM ALLOWABLE UNIT STRESSES.

E. TECHNICAL DATA FOR FASTENERS, INCLUDING GAUGE, FINISH, AND STRUCTURAL LOAD CAPACITY.

F. FASTENERS
   1. WHERE WOOD FRAMING IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR PRESSURE-PRESERVATIVE TREATED, PROVIDE STAINLESS STEEL FASTENERS.

G. CONNECTION OF ALL WOOD FRAMING SHALL MEET THE MINIMUM RECOMMENDED REQUIREMENTS PROVIDED IN THE FASTENING SCHEDULE OF THE IBC BUILDING CODE.

H. INSTALLATION:
   1. WOOD BEAMS MADE UP OF THREE OR MORE MEMBERS SHALL BE BOLTED TOGETHER WITH TWO ROWS OF 1/2 INCH DIA. BOLTS SPACED AT 32 INCHES ON CENTER.
   2. ALL WOOD MEMBERS BEARING DIRECTLY ON MASONRY OR CONCRETE SHALL HAVE A PRESERVATIVE PRESSURE TREATMENT.
      a. PROVIDE A MINIMUM 3" BEARING LENGTH OF ALL WOOD MEMBERS BEARING ON MASONRY OR CONCRETE.
   3. PROVIDE SOLID BRIDGING AT 4'-0" ON CENTER BETWEEN FIRST THREE EXTERIOR FLOOR JOISTS WHERE FRAMING SPANS PARALLEL TO BASEMENT WALLS.
   4. PROVIDE SOLID OR DIAGONAL BRIDGING BETWEEN ALL JOISTS AT BEARING LOCATIONS AND AT 8'-0" MAXIMUM BETWEEN SUPPORTS.
   5. THE CONTRACTOR SHALL CUT OR NOTCH THE WOOD FRAMING ONLY AS SHOWN ON THE CONTRACT DRAWINGS OR MANUFACTURER SPECIFICATIONS FOR ENGINEERED WOOD PRODUCTS.
   6. PROVIDE SOLID BLOCKING AT MAXIMUM SPACING OF 4'-0" OC, VERTICAL, FOR ALL WALL STUDS.

TIMBER PILES:

A. REFER TO "WOOD FRAMING" SECTION FOR APPLICABLE CODES AND STANDARDS.

B. REFER TO PROJECT GEOTECHNICAL REPORT BY KCI, INC. AND DATED 11/2023 FOR SITE PREPARATION AND RECOMMENDATIONS.

C. MATERIALS:
   1. ROUND TIMBER PILES: SOUTHERN PINE PILES CONFORMING TO ASTM D 25, UNUSED, CLEAN PEELED, UNIFORMLY TAPERED, ONE PIECE FROM BUTT TO TIP.

BUTT DIAMETER	TIP DIAMETER
12 INCHES	8 INCHES

   2. PROVIDE PILES OF SUFFICIENT LENGTH TO DEVELOP SPECIFIED BEARING VALUE AS INDICATED. BEARING ELEVATIONS OF TIMBER PILE FOUNDATIONS AS INDICATED ON DRAWINGS ARE APPROXIMATE.
   3. PRESERVATIVE PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING AWPA USE CATEGORY STANDARDS:
      a. MARINE FOUNDATION PILES: AWPA UC5B
      b. FIELD TREATMENT OF CUT ENDS AND HOLES: AWPA M4
   4. CONSTRUCTION TOLERANCES:
      a. DEVIATION FROM PLUMB AND ANGLE OF BATTER: 1/4 INCH PER FOOT OF PILE LENGTH, NOT TO EXCEED 6 INCHES OVERALL.
      b. DEVIATION FROM PILE TOP: 6 INCHES
   5. PILES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH ASTM D 1143 UNDER THE DIRECTION OF A REGISTERED GEOTECHNICAL ENGINEER, ANY SUDDEN DECREASE IN DRIVING RESISTANCE SHALL BE INVESTIGATED BY THE GEOTECHNICAL ENGINEER AND RESULTS PROVIDED TO THE STRUCTURAL ENGINEER.

J. TIMBER PILES SHALL BE SOUTHERN YELLOW PINE AND HAVE A MINIMUM BUTT DIAMETER OF 12 INCHES, MINIMUM TIP DIAMETER OF 8 INCHES, NO LARGER THAN 16" MATERIAL, TAPER, STRAIGHTNESS, AND ALLO

E. TIMB CAT PCP

F. PILE FRIC

G. PILE DRA

H. TIMB ABR LAR

I. HAN ON

J. CUT TRE

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 10 of 21

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 Ridgebrook Road
Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7818

NO.	DATE	REVISIONS DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

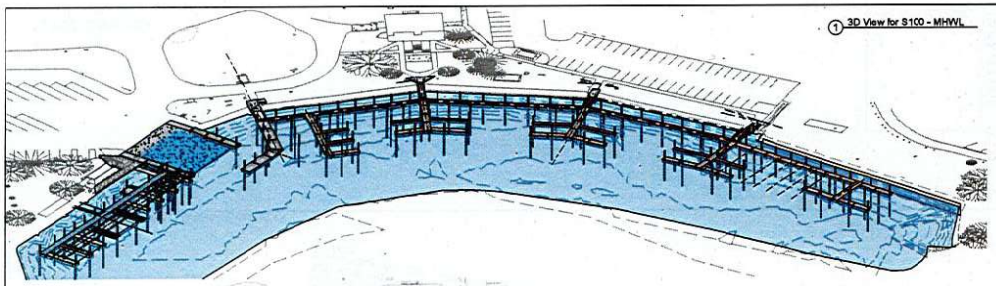
100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

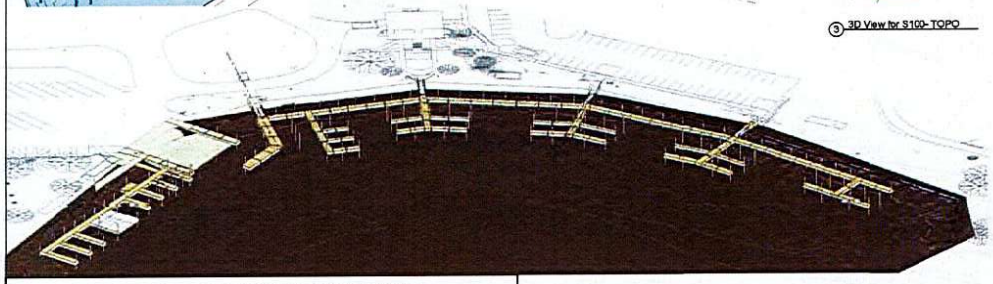
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

STRUCTURAL NOTES AND COVER SHEET
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-013
DATE: 02/17/2026
S-001
SHEET 10 OF 42
KCI JOB NUMBER 272202504



1 3D View for S100 - MHWL

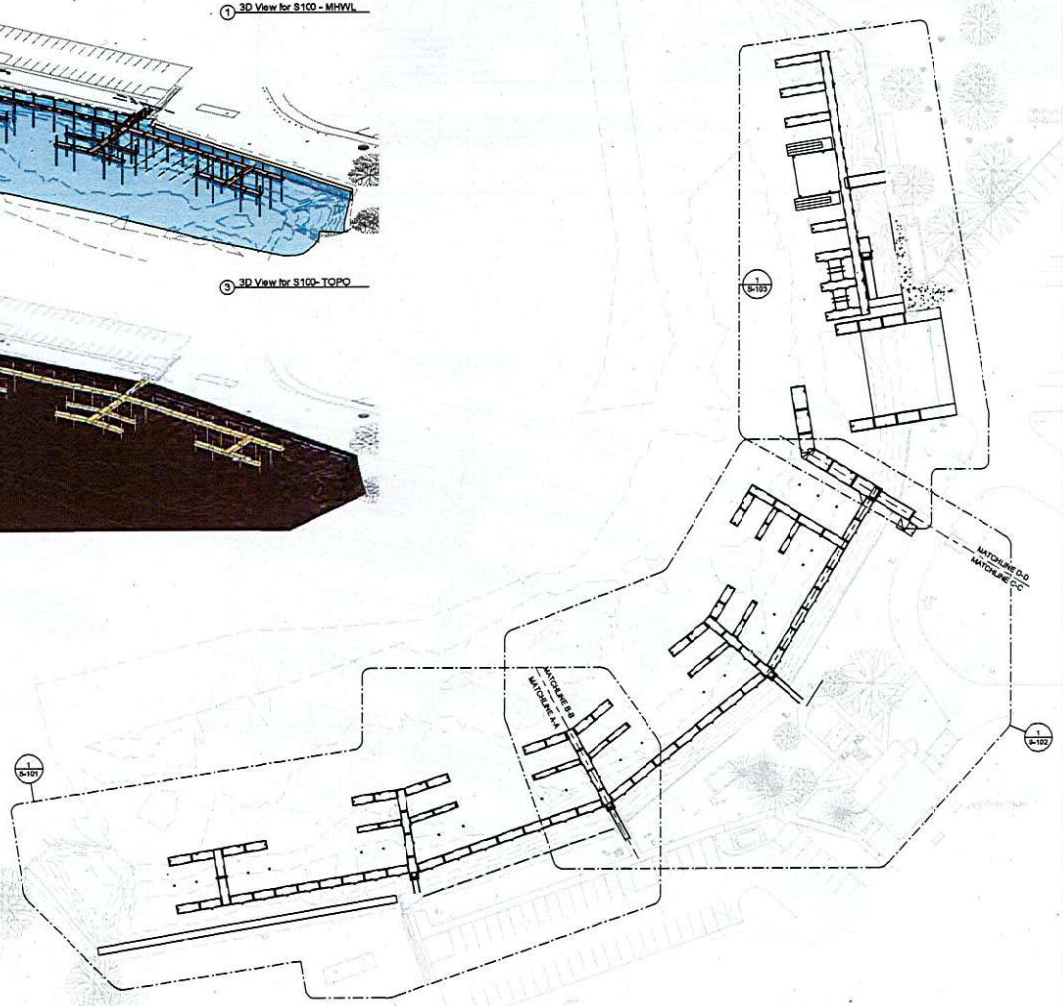


3 3D View for S100- TOPO

DELEGATED DESIGN SCHEDULE

ITEM:	DISCRIPTION:	REQUIREMENTS:
GANGWAY	ALUMINUM	SEE STRUCTURAL NOTES & S-500
FLOATING PIERS	ALUMINUM	SEE STRUCTURAL NOTES & S-500
LADDERS	ALUMINUM	SEE S-500
GUARDRAILS	ALUMINUM	SEE S-500
HINGES	ALUMINUM	SEE S-500
BOAT LIFTS	N/A	SEE S-402
COFFER DAM	WOOD OR SHEET PILING	SEE S-400
FISH CLEANING STATION	N/A	SEE S-402
EXISTING BULKHEAD ASSESSMENT	HIRE P.E. TO ASSESS	SEE S-103
KAYAK PLATFORM	TO SUIT BOARDSAFE LAUNCH	SEE S-103

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



2 STRUCTURAL MARINA LAYOUT PLAN
1" = 40'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS

LEGEND:

- STONE REVENTMENT
- CONCRETE SURFACE
- FLOATING PIERS
- GANGWAYS

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

PROFESSIONAL CERTIFICATION
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SIGNATURE: _____ DATE: _____

MDE Page 11 of 21

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7808

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

PROPOSED MARINA LAYOUT
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-100
SHEET 11 OF 42
KCI JOB NUMBER
272202504

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

0 4' 8' 12' 20'
SCALE: 3/32" = 1'-0"

AS-BUILT PILE DATA											
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:	PILE #:	TIP ELEV:	BUTT EL:	LENGTH:	PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

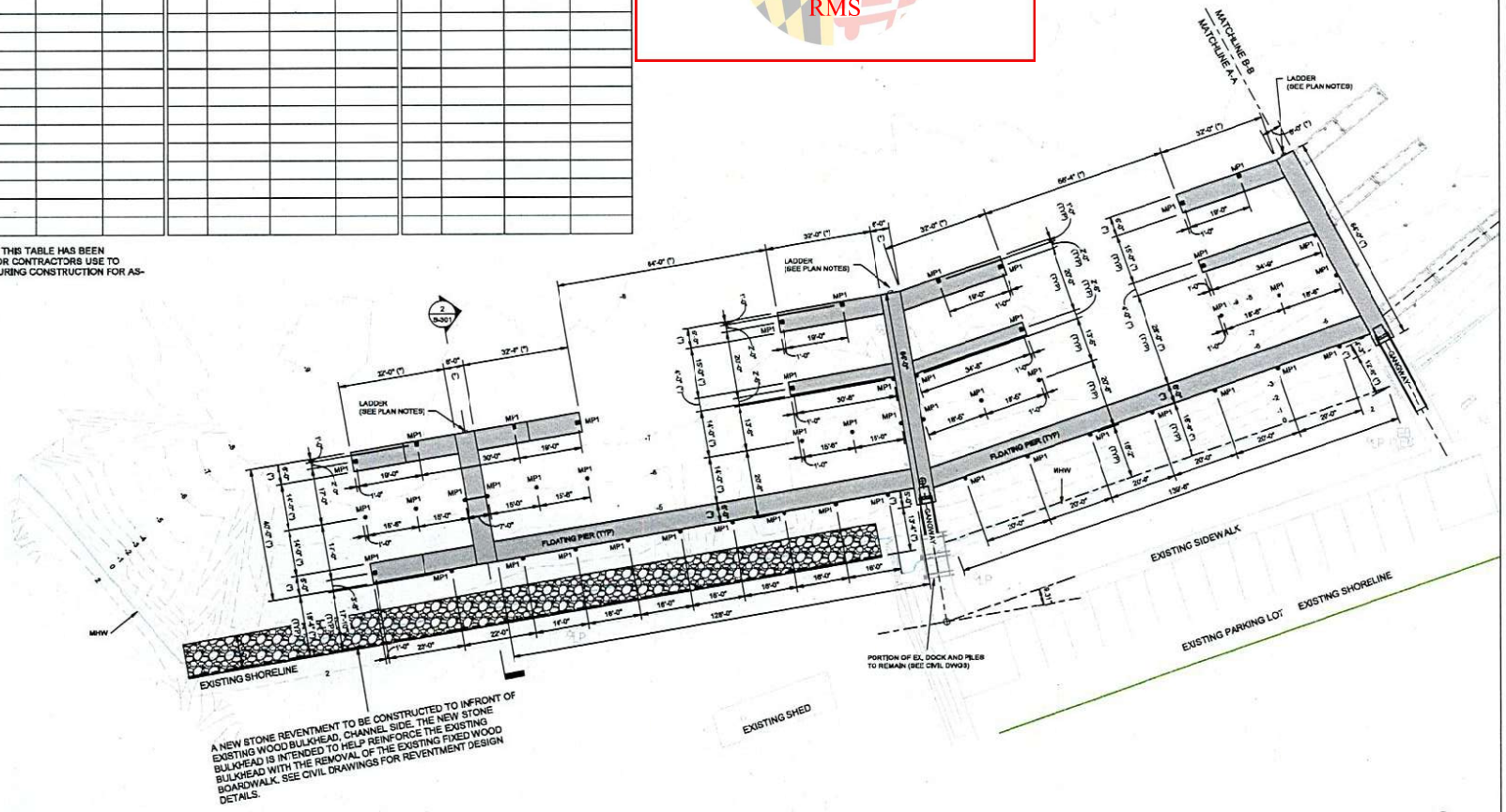
TABLE NOTE: THIS TABLE HAS BEEN PROVIDED FOR CONTRACTORS USE TO POPULATE DURING CONSTRUCTION FOR AS-BUILT DATA

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV:	BUTT EL:	LENGTH:
MP1	+10.00'	-25.00'	35'-0"
MP2:	+1.875'	-25.00'	26'-10 1/2"
MP3:	+8.00'	-25.00'	33'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS



1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

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KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800 FAX: (410) 316-7801

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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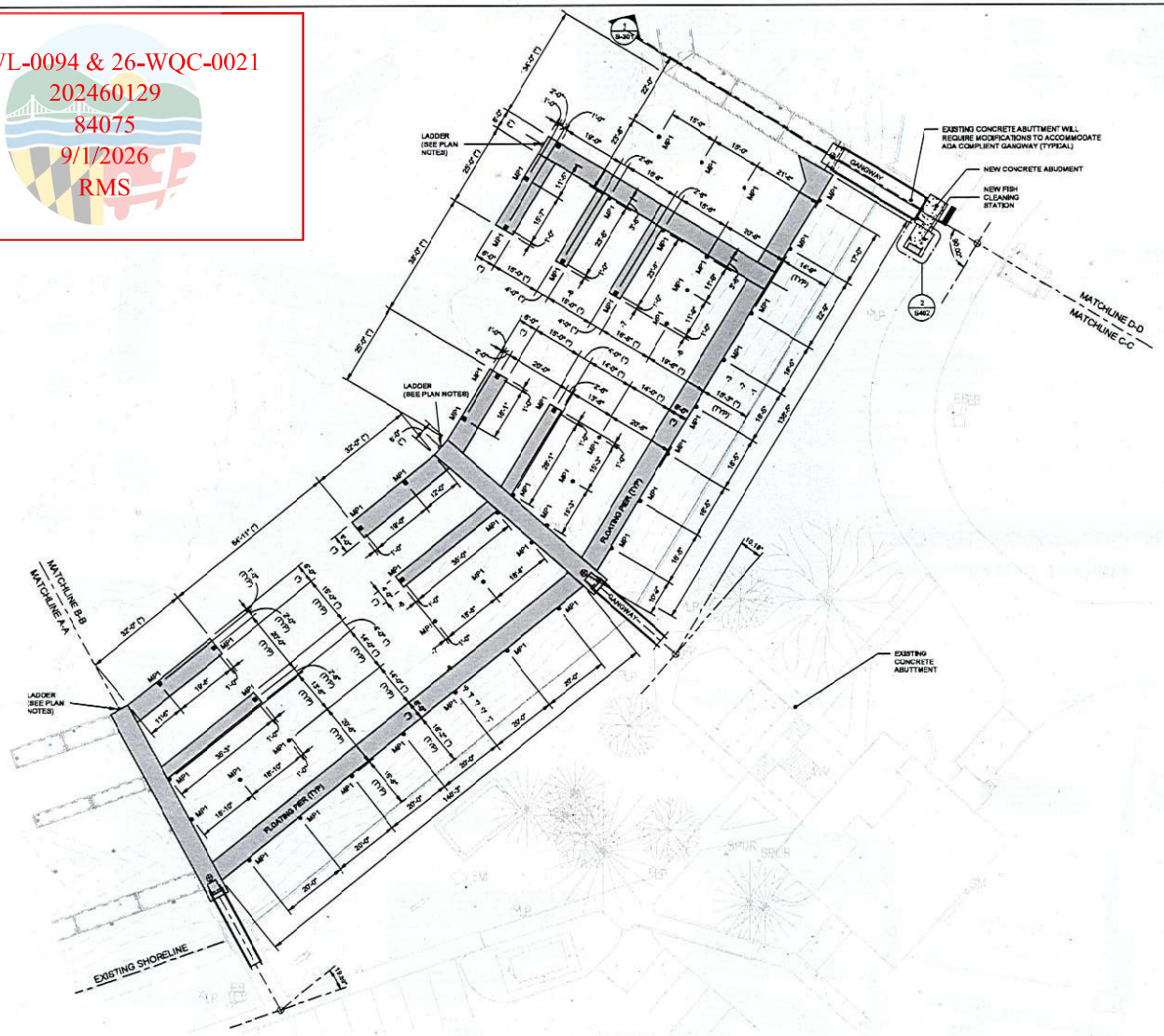
MDE Page 12 of 21

PARTIAL PILE PLAN (1)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-101
SHEET 12 OF 42
KCI JOB NUMBER
272202504

AS-BUILT PILE DATA			
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV.	BUTT EL:	LENGTH:
MP1	+10.00'	-25.00'	35'-0"
MP2:	+1.875'	-25.00'	26'-10 1/2"
MP3:	+8.00'	-25.00'	33'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
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4. SEE S401 FOR FIXED WOOD PIER DETAILS
5. SEE S402 FOR BOAT LIFT AND FISH CLEANING STATION DETAILS

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

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0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7808

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
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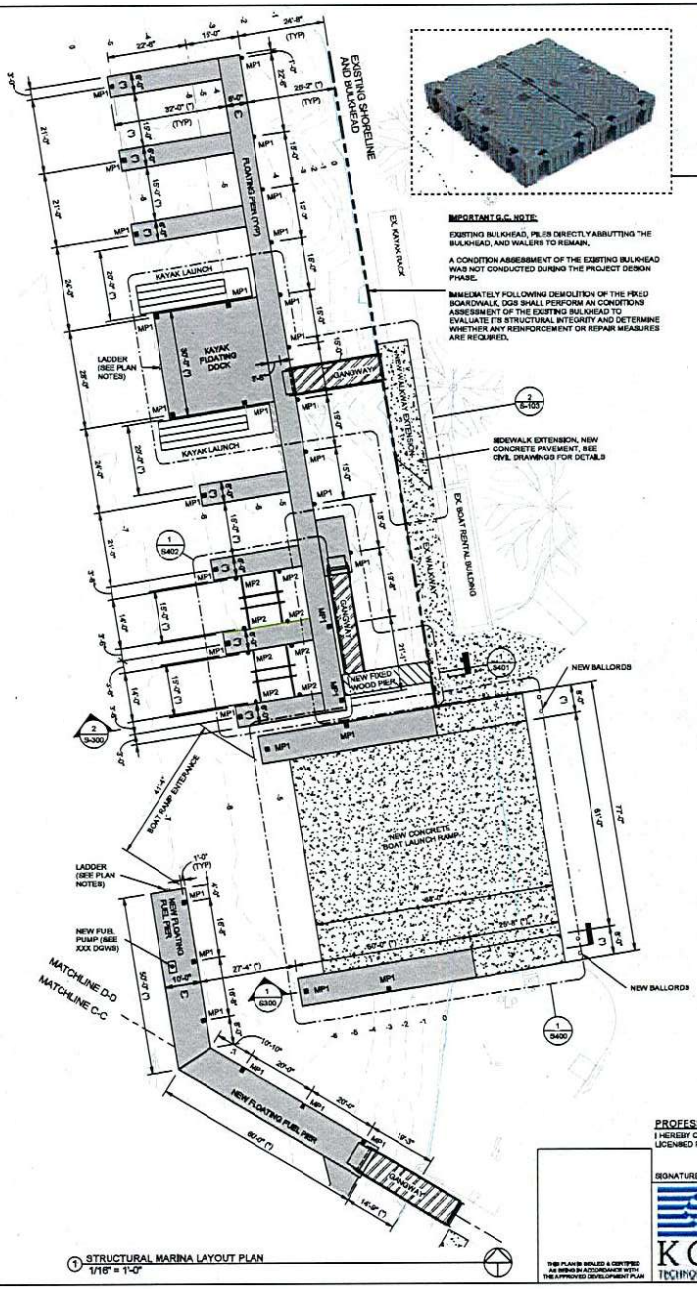
PARTIAL PILE PLAN (2)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT P-018-203-010
DATE: 02/17/2026
S-102
SHEET 13 OF 42
KCI JOB NUMBER
272202504

AS-BUILT PILE DATA			
PILE #:	TIP ELEV:	BUTT EL:	LENGTH:

TABLE NOTE: THIS TABLE HAS BEEN PROVIDED FOR CONTRACTORS USE TO POPULATE DURING CONSTRUCTION FOR AS-BUILT DATA



1 STRUCTURAL MARINA LAYOUT PLAN
1/16" = 1'-0"

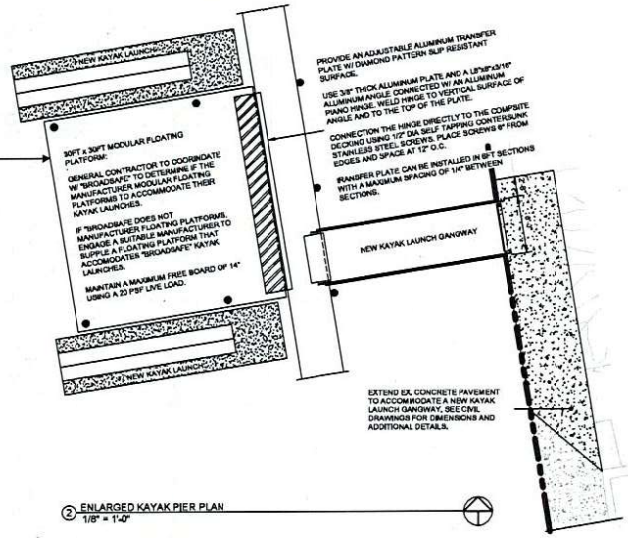
SCALE: 1/8" = 1'-0" SCALE: 1/16" = 1'-0"

IMPORTANT G.C. NOTE:

EXISTING BULKHEAD, PILES DIRECTLY ABBUTTING THE BULKHEAD, AND WALERS TO REMAIN.

A CONDITION ASSESSMENT OF THE EXISTING BULKHEAD WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE.

IMMEDIATELY FOLLOWING DEMOLITION OF THE FIXED BOARDWALK, DGS SHALL PERFORM AN CONDITIONS ASSESSMENT OF THE EXISTING BULKHEAD TO EVALUATE ITS STRUCTURAL INTEGRITY AND DETERMINE WHETHER ANY REINFORCEMENT OR REPAIR MEASURES ARE REQUIRED.



2 ENLARGED KAYAK PIER PLAN
1/8" = 1'-0"





Safety & Access for All Abilities

Features	Other Launches	BoardSafe
Aluminum gangway 1:12 ADA slope		
Gangway top handrail and 36" handrail		
Parallel boat slide		
Tiered Bench	X	
Bench rail	X	
Overhead bars		
Overhead Straps		
Sideout Seat	X	
Support saddles for vessles	X	
Pull bars		
Informational signage with QR Code	X	
Styrofoam encapsulated floation for stability		
Self-Performed installation Services		
Debris Diversion Control	X	
SUP compatibility		
Extruded aluminum for added strength		X
Non-roller kayak chute for stability	X	X

Note: All the above features are available for every BoardSafe launch although they may not be specified for each project.

BoardSafe

PILE TIP AND BUTT ELEVATIONS			
PILE:	TIP ELEV:	BUTT EL:	LENGTH:
MP1	-10.00'	-25.00	35'-0"
MP2:	-1.875'	-25.00	26'-10 1/2"
MP3:	-8.00'	-25.00	33'-0"

PLAN NOTES

1. (*) DIMENSIONS WITH AN ASTERISK INDENTIFY SPACING OF FLOATING PIER ELEMENTS.
2. DIMENSION WITHOUT AN ASTERISK ARE ASSOSIATED WITH PILE AND MOORING SPACING.
3. SEE S500 FOR NEW LADDER, GANGWAY, AND FLOATING PIER DETAILS.
4. SEE S401 FOR FIXED WOOD PIER DETAILS
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ALTERNATIVE OPTION (KAYAK PLATFORM):





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202460129
84075
9/1/2026
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ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
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Sparks, Maryland 21152
Telephone: (410) 316-7800
Fax: (410) 316-7801

REVISIONS			
NO.	DATE	DESCRIPTION	BY

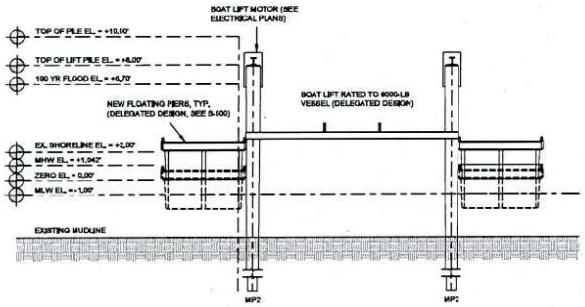
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OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

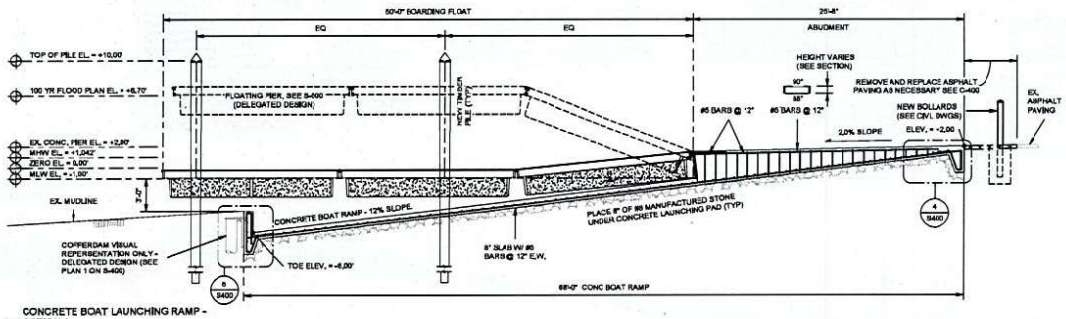
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PARTIAL PILE PLAN (3)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-013
DATE: 02/17/2026
S-103
SHEET 14 OF 42
KCI JOB NUMBER
272202504

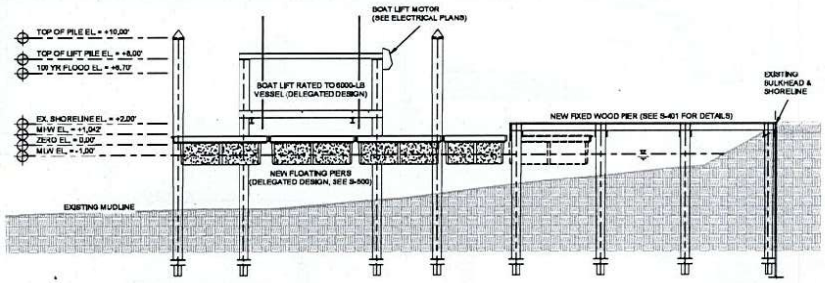


④ BOAT LIFT SECTION B
1/4" = 1'-0"

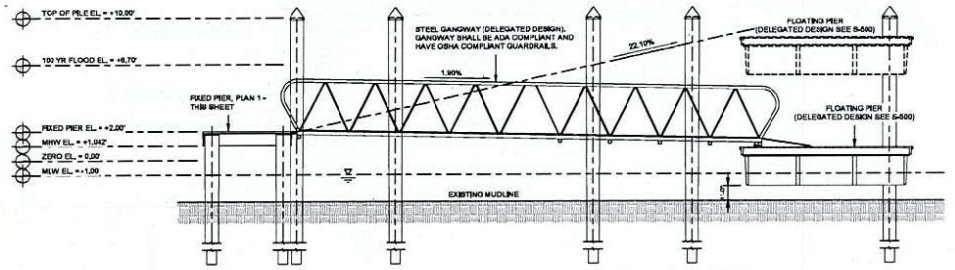


CONCRETE BOAT LAUNCHING RAMP - OPTION 1
① 3/16" = 1'-0"

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



② BOAT LIFT SECTION A
3/16" = 1'-0"



③ FIXED PIER GANGWAY SECTION
1/4" = 1'-0"

0 2' 4' 8' 10'
SCALE: 3/16" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

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OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

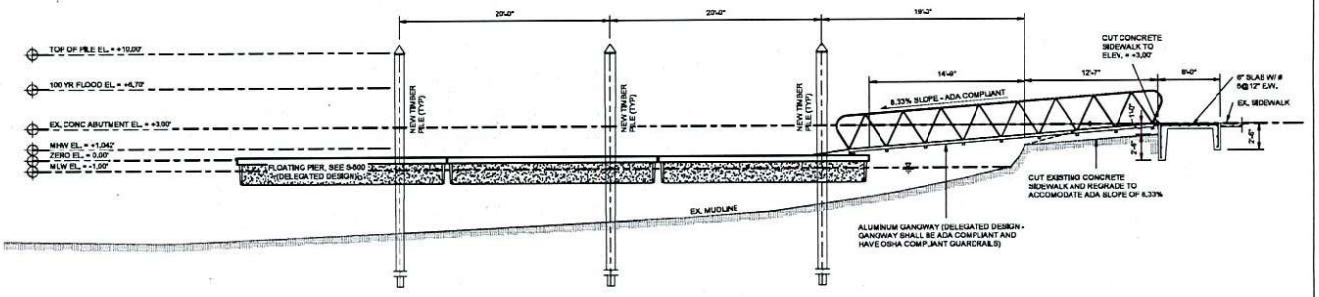
THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PIER AND CHANNEL SECTIONS (1)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

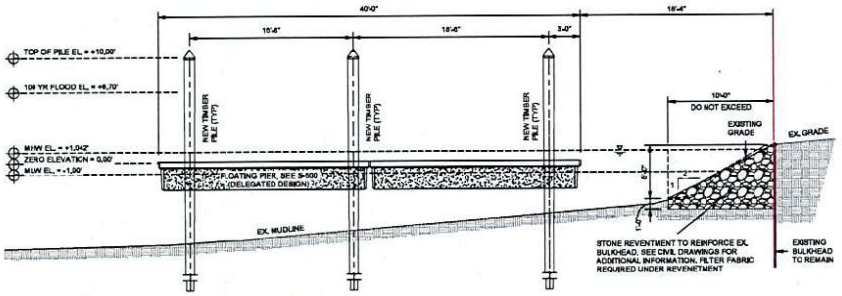
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

PROJECT: P-018-203-010
DATE: 02/17/2026
S-300
SHEET 15 OF 42
KCI JOB NUMBER 272202504

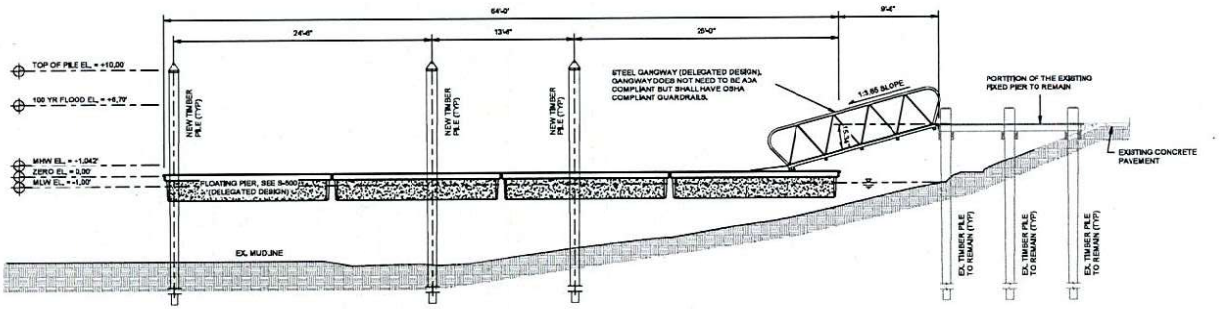
24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



1 FLOATING FUELING PIER SECTION
3/16" = 1'-0"



2 FLOATING PIER AT "BASS FISHING" AREA SECTION
3/16" = 1'-0"



3 FLOATING PIER SECTION CONNECTING TO EXISTING FIXED DOCK
3/16" = 1'-0"

0 2' 4' 8' 16'
SCALE: 3/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS

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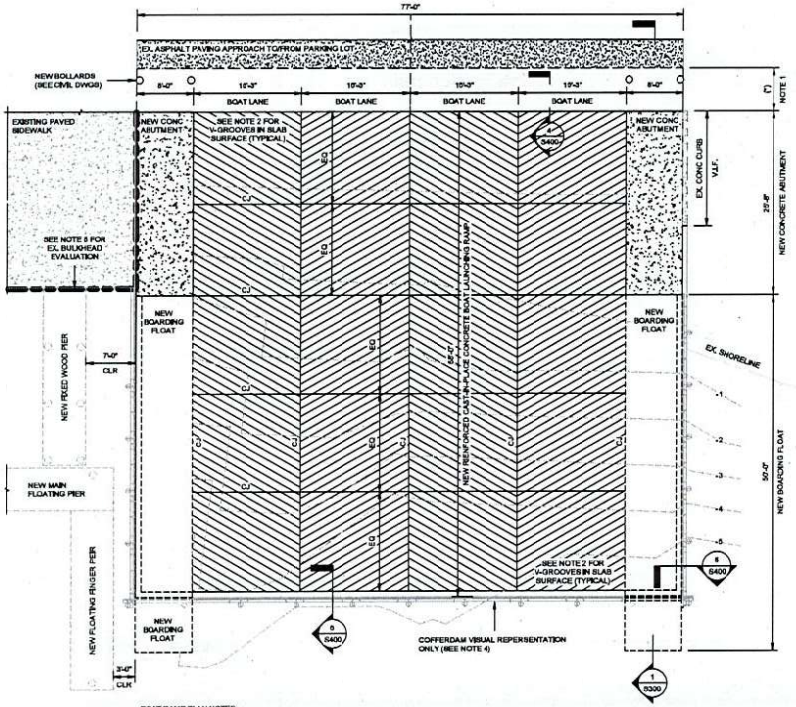
PIER AND CHANNEL SECTIONS (2)
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PROJECT: P-018-203-010
DATE: 02/17/2026
S-301
SHEET 18 OF 42
KCI JOB NUMBER
272202504

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



BOAT RAMP PLAN NOTES:

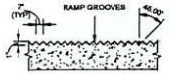
1. (*) REMOVE SECTION OF EXISTING ASPHALT PAVING TO ACCOMMODATE INSTALLATION OF NEW REINFORMED CAST-IN-PLACE CONCRETE BOAT LAUNCHING RAMP. REPAIR REMOVED SECTION OF ASPHALT PAVING PER CIVIL DRAWINGS ON C-400.
2. V-GROOVES: V-GROOVES SHALL HAVE ALTERNATING 1 INCH 45 DEGREES FACES AT 45 DEGREES, RESULTING IN 90 DEGREES PEAKS AND VALLEYS. ALIGNMENT OF V-GROOVES SHOULD BE AS FOLLOWS:
   A. 430 DEGREES MEASURED FROM THE HORIZONTAL TOE OF THE LAUNCHING RAMP LANES; AND
   B. 90 DEGREES MEASURED FROM THE SLOPING SIDES OF THE LAUNCHING LANES.
3. SEE CAST-IN-PLACE CONCRETE NOTES ON S-001 FOR CONCRETE MIX AND STRENGTH REQUIREMENTS.
4. COFFERDAM: A COFFERDAM SHALL BE INSTALLED SO THE CAST-IN-PLACE CONCRETE SLAB CAN BE CONSTRUCTED "IN-THE-DRY." THE DESIGN AND CONSTRUCTION OF A COFFERDAM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR INCLUDING MATERIALS TO BE USED. ADDITIONALLY, "DE-WATERING" WILL LIKELY BE REQUIRED TO INSTALL THE BOAT RAMP.

   NOTE: THE COFFERDAM ILLUSTRATED IN THE PLAN IS A GRAPHICAL REPRESENTATION ONLY. COFFERDAM CONSTRUCTION INCLUDING MATERIALS AND DESIGN IN THE RESPONSIBILITY OF THE GENERAL CONTRACTOR (DELEGATED DESIGN ITEM).
5. EXISTING BULKHEAD: EXISTING BULKHEAD, PILES DIRECTLY ABBUTTING THE BULKHEAD, AND WALERS TO REMAIN.

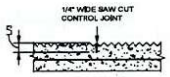
   A CONDITION ASSESSMENT OF THE EXISTING BULKHEAD WAS NOT CONDUCTED DURING THE PROJECT DESIGN PHASE.

   DIRECTLY AFTER DEMOLITION OF THE FIXED BOARDWALK DGS WILL CONDUCT AN EXISTING CONDITIONS ASSESS OF THE BULKHEAD TO DETERMINE IF ITS STRUCTURE INTERGRITY IS INTACT OR WHETHER REINFORCEMENT/REPAIR MEASURES ARE REQUIRED.

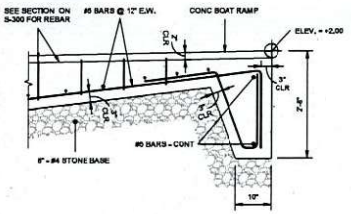
① ENLARGED BOAT RAMP PLAN
1/8" = 1'-0"



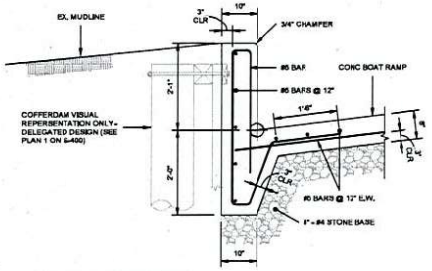
② BOAT RAMP CONCRETE GROOVE DETAIL
3/4" = 1'-0"



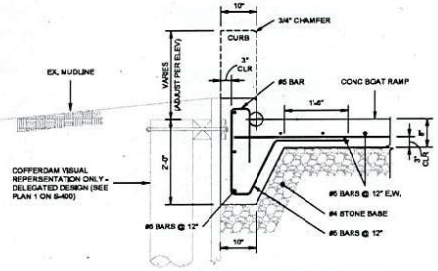
③ BOAT RAMP CONTROL JOINT DETAIL
3/4" = 1'-0"



④ BOAT RAMP REINFORCEMENT DETAIL - NO CURB
3/4" = 1'-0"



⑤ BOAT RAMP TOE REINFORCEMENT DETAIL
3/4" = 1'-0"



⑥ BOAT RAMP SIDE REINFORCEMENT DETAIL
3/4" = 1'-0"

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

0 4' 8' 12' 20'
SCALE: 3/32" = 1'-0"

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____ DATE: _____

MDE Page 17 of 21

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD SPARKS, MARYLAND 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: POB
DESIGNED BY: POB
CHECKED BY: DL

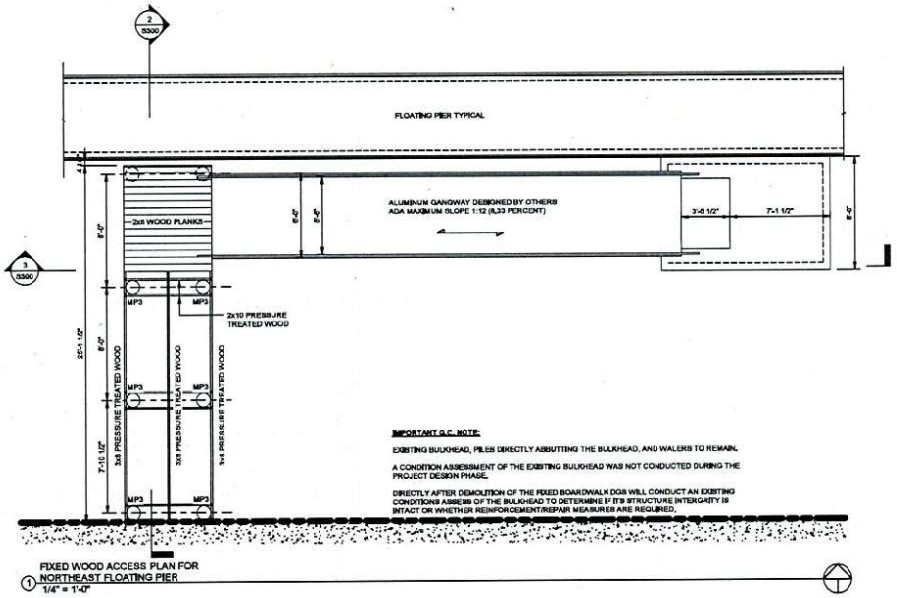
OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

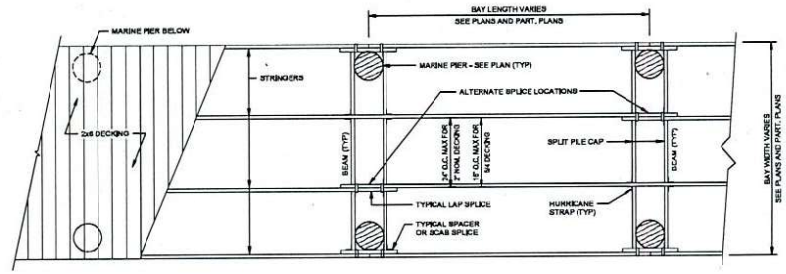
ENLARGED PARTIAL PLANS
MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

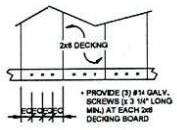
PROJECT: P-018-203-010
DATE: 02/17/2026
S-400
SHEET 1 OF 42
KCI JOB NUMBER 272202504



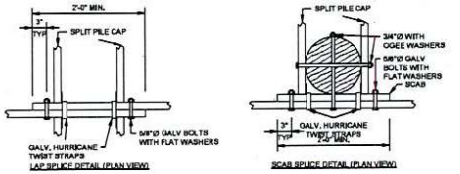
1 FIXED WOOD ACCESS PLAN FOR NORTHEAST FLOATING PIER
1/4" = 1'-0"



2 TYPICAL FIXED PIER FRAMING PLAN
1/2" = 1'-0"

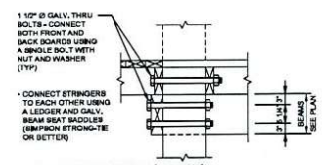


3 TYPICAL 2x6 DECKING CONNECTION DETAIL
1 1/2" = 1'-0"

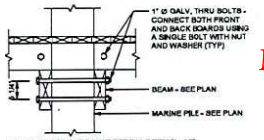


NOTES:
1. THE SPACING BETWEEN DECKING MEMBERS SHOULD BE CHOSEN TO PREVENT A GAP WHICH WOULD HINDER DISABLED ACCESS IN CASE OF SHRINKAGE.
2. HARDWARD SHOULD BE OVERSIZED DUE TO THE HARSHNESS OF THE ENVIRONMENT IN WHICH A TYPICAL PIER IS LOCATED.
3. HURRICANE STRAPS ARE RECOMMENCED.
4. SCREWS TO BE USED AS FASTENERS.
5. AS IN TYPICAL MARINE CONSTRUCTION, FASTENERS SHOULD BE HOT-DIPPED GALVANIZED (COATED WITH EPOXY AFTER INSTALLATION) OR STAINLESS STEEL.

4 TYPICAL SPLICE CONNECTION DETAILS
1" = 1'-0"



5 TYPICAL LEDGER CONNECTION DETAIL AT SLIPS
3/4" = 1'-0"



6 TYPICAL PIER CONNECTION DETAIL AT STRINGERS & BEAMS
3/4" = 1'-0"

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

MDE Page 18 of 21

100% CONSTRUCTION DOCUMENTS

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
SIGNATURE: _____ DATE: _____

SCALE: 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0"

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SURVEYORS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7808

REVISIONS			
NO.	DATE	DESCRIPTION	BY

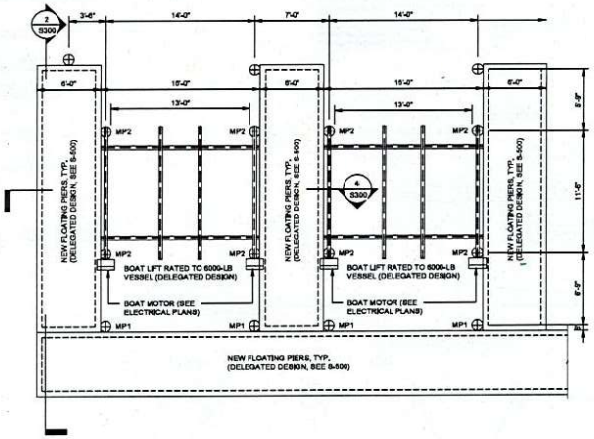
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

ENLARGED ADA FIXED PIER & DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

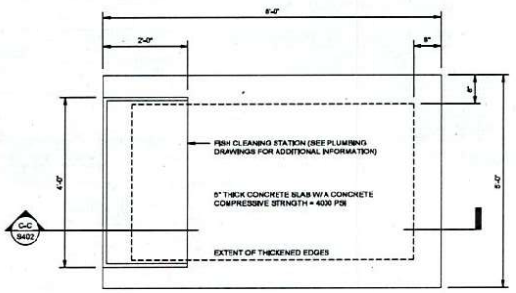
PROJECT: P-018-203-010
DATE: 02/17/2026
S-401
SHEET 11 OF 42
KCI JOB NUMBER
272202504

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

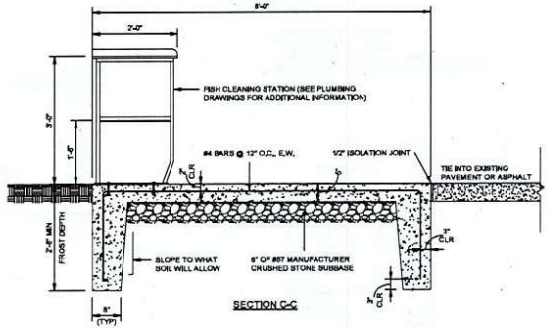


1 ENLARGED BOAT LIFT PLAN
3/16" = 1'-0"





PLAN VIEW



SECTION C-C

2 ENLARGED FISH CLEANING STATION W/ SECTION
3/4" = 1'-0"



MDE Page 19 of 21

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
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SIGNATURE: _____ DATE: _____

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAV88.

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE (410) 316-7800
FAX (410) 316-7808

REVISIONS			
NO.	DATE	DESCRIPTION	BY

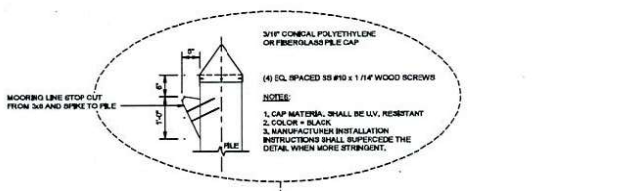
SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
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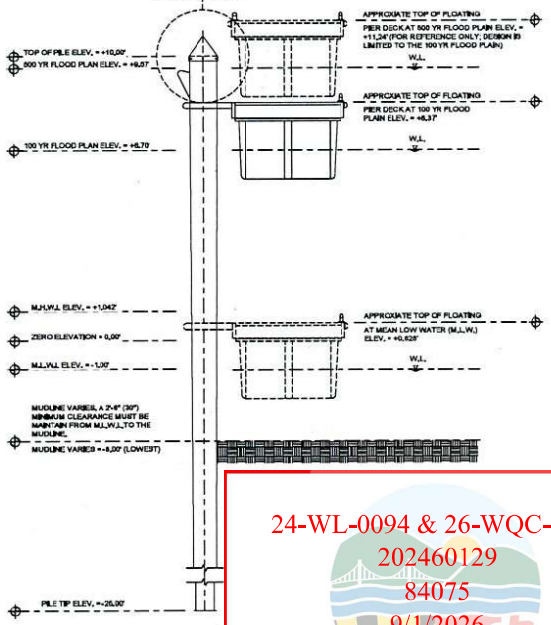
ENLARGED FISH STATION & BOAT LIFT MARINE IMPROVEMENT PROJECT
AT
POCOMOKE STATE PARK
ELECTION DISTRICT 01
WESTERN DISTRICT No.4 WORCESTOR COUNTY, MARYLAND

PROJECT: P-016-263-010
DATE: 02/17/2026
S-402
SHEET 19 OF 42
KCI JOB NUMBER 272202504

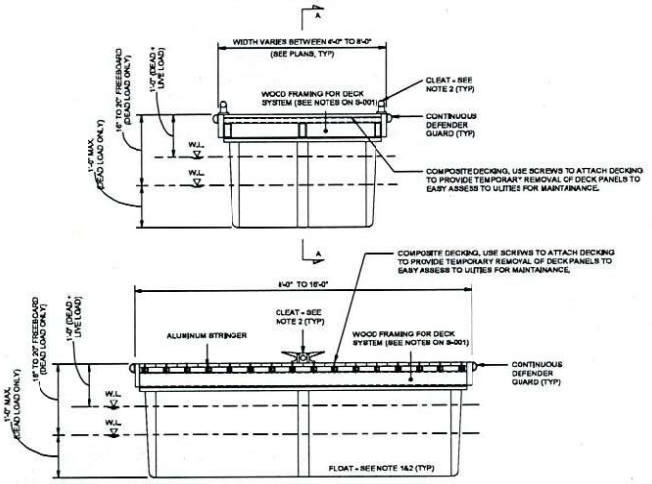
0 2' 4' 8' 12'
SCALE: 3/16" = 1'-0"

0 1' 2' 3'
SCALE: 3/4" = 1'-0"



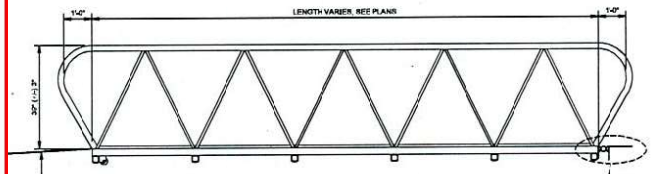


1 TYPICAL MARINE PILE DETAIL
1/2" = 1'-0"



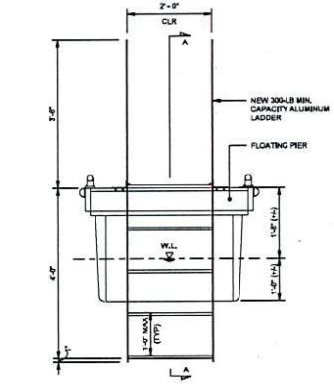
NOTES:
1. FLOATING PIER TO BE DESIGN BY THE CONTRACTOR FOR A 40-PSF LIVE LOAD.
2. FLOATS SHALL BE EPS FOAM FILLED WITH A POLYETHYLENE SHELL.
3. FLOATS AND CHEATS SHALL BE ATTACHED TO STRUCTURAL FRAMING MEMBERS USING BOLTS, SCREWS WILL NOT BE PERMITTED.
4. ALTERNATIVE DESIGNS REQUIRE APPROVAL FROM THE ENGINEER IN RESPONSIBLE CHARGE.
5. FLOATS SHALL NOT COMPLETELY SUBMERGE UNDER DESIGN LOADS.

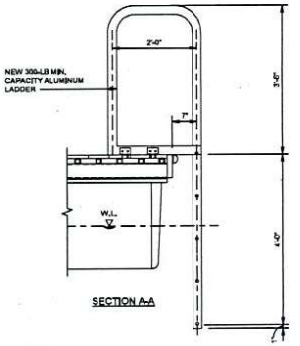
2 TYPICAL FLOATING PIER DETAILS
3/4" = 1'-0"



NOTES:
1. GANGWAY IS A DELEGATED DESIGN
2. GANGWAY TO BE CONSTRUCTED OF ALUMINUM

3 GANGWAY DETAILS
1/2" = 1'-0"

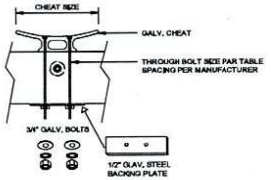




NOTES:
1. SALVAGE EXISTING LADDERS AND REUSE.

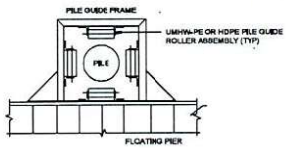
FOR NEW LADDERS:
2. LADDER AND CONNECTION HARDWARE SHALL BE DESIGNED BY THE CONTRACTOR.
   a. LADDER TO BE DESIGNED FOR A MINIMUM 300-LB CAPACITY AND CONSTRUCTED OF ALUMINUM.
2. LADDER SHALL BE OSHA COMPLIANT.
3. SEE PLANS FOR LADDER LOCATIONS.

TYPICAL LADDER TO FLOATING PIER DETAILS
3/4" = 1'-0"



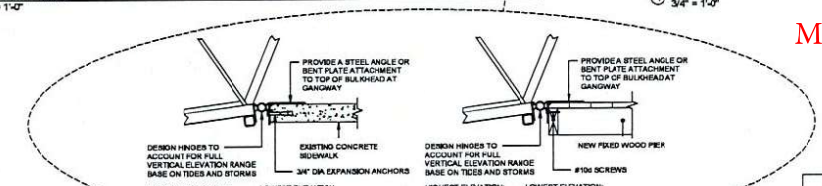
CHEAT TABLE		
LOCATION	CHEAT SIZE	BOLT SIZE
ALL	10"HD	3/4" DIA
HD = HEAVY DUTY CHEAT SIZE		

5 CLEAT DETAIL
3/4" = 1'-0"



NOTES:
1. PILE GUIDE DESIGN SHALL BE THE RESPONSIBILITY OF THE FLOATING PIER MANUFACTURER.
2. ALTERNATIVE EXTERIOR PILE GUIDE DESIGNS REQUIRE APPROVAL OR THE ENGINEER-IN-CHARGE.

6 EXTERNAL ROLLER GUIDE FOR PILES
3/4" = 1'-0"



SCALE: 1/2" = 1'-0"
SCALE: 3/4" = 1'-0"

PROFESSIONAL CERTIFICATION
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SIGNATURE: _____ DATE: _____

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KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD SPARKS, MARYLAND 21152
TELEPHONE (410) 316-7800 FAX (410) 316-7801

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: PDB
DESIGNED BY: PDB
CHECKED BY: DL

TYPICAL DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTOR COUNTY, MARYLAND

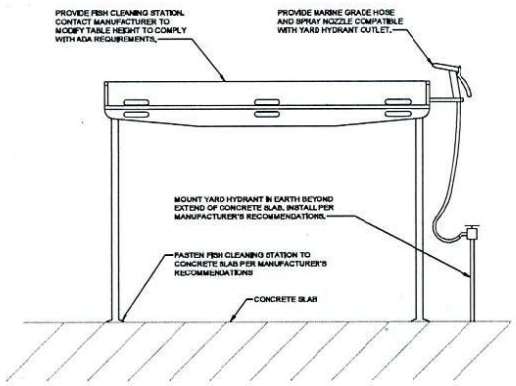
PROJECT: P-018-203-010
DATE: 02/17/2026
S-500
SHEET 20 OF 42
KCI JOB NUMBER 272202504

100% CONSTRUCTION DOCUMENTS

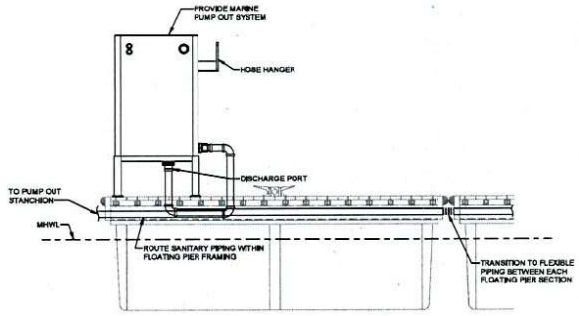
OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

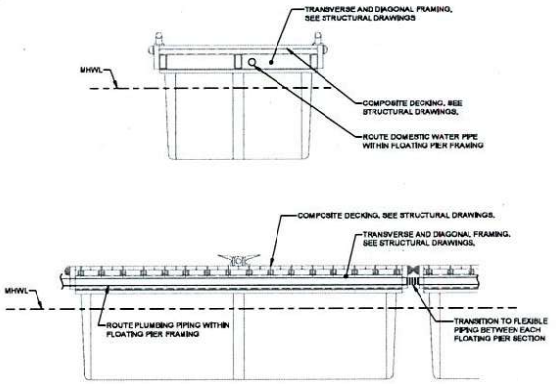
24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS



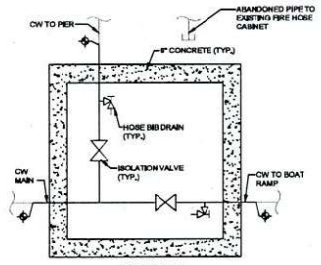
5 FISH CLEANING STATION DETAIL
NOT TO SCALE



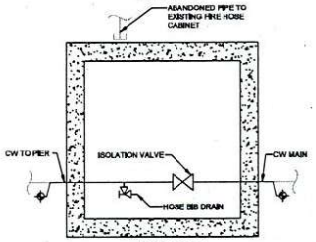
3 MARINE PUMP-OUT SYSTEM DETAIL
NOT TO SCALE



1 FLOATING PIER PIPING INSTALLATION DETAIL
NOT TO SCALE



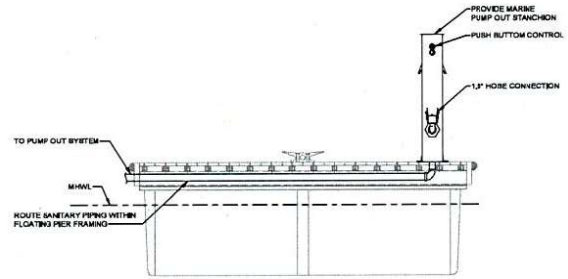
VAULT B



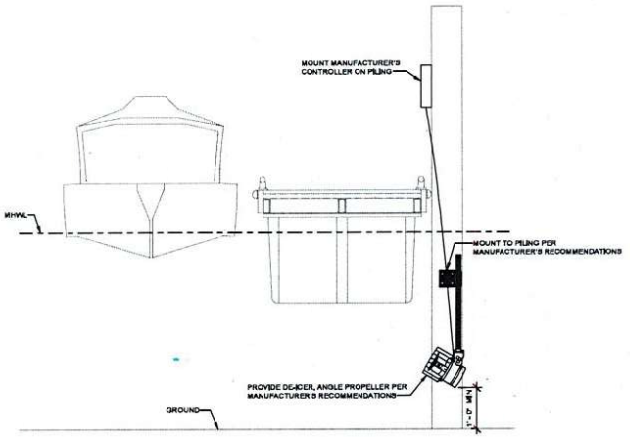
VAULT A

NOTES:
1. VAULTS SHALL BE 2'X2'X3'. CONFIRM DEPTH PRIOR TO PURCHASE.
2. PROVIDE VAULTS WITH GRAVEL BOTTOM
3. PROVIDE CAST IRON FRAME AND COVER

6 VALVE VAULT DETAILS
NOT TO SCALE



4 MARINE PUMP-OUT STANCHION DETAIL
NOT TO SCALE



2 DE-ICER DETAIL
NOT TO SCALE

24-WL-0094 & 26-WQC-0021
202460129
84075
9/1/2026
RMS

100% CONSTRUCTION DOCUMENTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36130 EXPIRATION DATE: 07.06.2027

SIGNATURE: DATE:

THIS PLAN IS SEALED & CERTIFIED AS BEING IN ACCORDANCE WITH THE APPROVED DEVELOPMENT PLAN.

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800 FAX: (410) 316-7818

REVISIONS			
NO.	DATE	DESCRIPTION	BY

SCALE: AS SHOWN
DRAWN BY: FG
CHECKED BY: BPB
MOE NO:

OWNER/DEVELOPER
STATE OF MARYLAND FOR THE DEPARTMENT OF NATURAL RESOURCES
580 TAYLOR AVENUE E-4
ANNAPOLIS, MD 21401

THESE PLANS ARE ON THE MARYLAND COORDINATE SYSTEM NAD83, THE VERTICAL DATUM IS NAVD88.

PLUMBING DETAILS
MARINE IMPROVEMENT PROJECT AT POCOMOKE STATE PARK

ELECTION DISTRICT 01
WESTERN DISTRICT No.4
WORCESTER COUNTY, MARYLAND

PROJECT: P-016-283-010
DATE: 02/17/2026
P-500
SHEET 24 OF 42
KCI PROJECT NUMBER
272202504