

SPRIGGS FARM PARK SHORELINE IMPROVEMENTS

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

ANNE ARUNDEL COUNTY, MD

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ANNE ARUNDEL COUNTY STANDARD SPECIFICATIONS AND/OR DETAILS FOR CONSTRUCTION AND THE STATE HIGHWAY ADMINISTRATION'S HIGHWAY DRAINAGE MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, WATER AND SEWER LINES. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- WORK IS TO BE CONFINED TO WITHIN THE LIMITS SHOWN ON THE SITE PLAN. DEBRIS ALONG THE SHORELINE AND IN THE NEAR SHORE AREA WILL BE REMOVED AND DISPOSED OF OFF-SITE. AFTER SHORELINE CLEANUP, MATERIALS ARE TO BE BROUGHT TO THE SITE BY WATER ACCESS OR LAND ACCESS ROUTES AS SHOWN ON THE PLANS. THE STONE SILL STRUCTURES SHALL BE BUILT IN THE LOCATION SHOWN ON THE SITE PLAN. CONSTRUCTION WILL BE COMPLETED BY CLEANING UP THE WORK AREA, RAKING FERTILIZING, AND SEEDING AND MULCHING DISTURBED AREAS, AND PLANTING OF THE
- ALL EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION.
- DISTURBANCES THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE SHALL BE STABILIZED BY THE END OF THE WORKDAY. NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF THE WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE. SLOPES SHALL BE STABILIZED IMMEDIATELY WITH TOPSOIL, SEED AND EROSION CONTROL MATTING (IF REQUIRED). SEE NOTE 12.
- ALL STONE USED FOR THE SILLS SHALL BE DURABLE QUARRIED STONE. THE STONE SHALL BE HARD AND ANGULAR, FREE FROM EITHER LAMINATIONS, WEAK CLEAVAGES, OR UNDESIRABLE WEATHERING, AND OF SUCH CHARACTER THAT IT WILL NOT DISINTEGRATE FROM THE ACTION OF AIR, SALT, WATER OR HANDLING. SEDIMENTARY STONE WILL GENERALLY BE UNACCEPTABLE. INDIVIDUAL STONES WILL BE FREE FROM THIN, SLABBY PIECES HAVING A MAXIMUM DIMENSION OF MORE THAN THREE AND ONE-HALF (3.5) TIMES THE LEAST DIMENSION.
- THE WORK INSTALLED AS A PART OF THE PROJECT WILL CONTAIN NO FAULTY MATERIALS. OR ANY CARELESS OR UNSKILLED WORKMANSHIP.
- THE CONTRACTOR SHALL CORRECT, REPAIR OR REMOVE AND REPLACE WITH PROPER WORK AT NO COST TO THE COUNTY ANY WORK FOUND NOT TO BE AS PER THE GUARANTEE. THE CONTRACTOR SHALL ALSO MAKE GOOD ALL DAMAGES CAUSED TO OTHER WORK OR MATERIALS IN THE PROCESS OF FULFILLING THE GUARANTEE.
- O. CONTRACTOR MUST STAY WITHIN THE LIMITS OF DISTURBANCE (LOD) WHEN STOCKPILING MATERIAL OR STORING EQUIPMENT.
- ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN:
- END OF THE WORK DAY FOR AREAS WITHIN WATERWAYS. 11.2. THREE CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF

ALL PERIMETER SEDIMENT CONTROLS.

- 11.3. SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS 12. ALL DISTURBED AREAS WITH SLOPES STEEPER THAN OR EQUAL TO 3:1 SHALL BE STABILIZED WITH 100% BIODEGRADABLE SOIL STABILIZATION MATTING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE
- APPROVED SEDIMENT AND EROSION CONTROL PLANS. . ALL TREES WITH A DIAMETER GREATER THAN 12 INCHES WITHIN THE LIMIT OF DISTURBANCE SHALL NOT BE REMOVED UNLESS PRIOR APPROVAL IS OBTAINED OR EXPLICITLY SHOWN ON THE PLANS TO BE REMOVED. ALL TREES WITHIN THE LIMIT OF
- DISTURBANCE THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED WITH TREE PROTECTION FENCING OR TREE REINFORCED PLANKING. 4. ALL ROADS SHALL BE CLEANED AND CLEARED BY THE END OF EACH WORK DAY. ANY
- MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEPT OFF BEFORE THE END

15. ALL STAKING, RESTAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED

- LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE. 6. ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH STATE OF MARYLAND OCCUPATIONAL SAFETY LAWS.
- CONTRACTOR MUST ENSURE THAT COPIES OF FEDERAL, STATE, AND COUNTY PERMITS

ARE POSTED ON SITE PRIOR TO THE START OF ANY WORK.

- 8. CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT IS NOT LIMITED TO GRASS AREAS, ROADS AND PAVED AREAS, ETC.

MEAN TIDE RANGE IS APPROXIMATELY 1.0 FEET BASED ON NOAA TIDE STATION 8575512 IN ANNAPOLIS, MD.

HORIZONTAL AND VERTICAL CONTROL ESTABLISHED FROM REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) CONTROL POINTS. COORDINATES AND BEARINGS SHOWN HEREON REFER TO THE MARYLAND COORDINATE SYSTEM (NAD83/91). ELEVATIONS SHOWN HEREON REFER TO MEAN LOW WATER (MLW). CONTROL POINTS SET BY BAYLAND CONSULTANTS & DESIGNERS, INC. ON 02/07/2023.

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TPS# 1	507,890.66	1,461,800.99	21.81'	YELLOW PLASTIC CAP (YPC)
TPS# 2	508,068.35	1,461,934.55	15.38'	YELLOW PLASTIC CAP (YPC)
TPS# 3	508,151.68	1,461,950.71	16.06	YELLOW PLASTIC CAP (YPC)

- TOPOGRAPHIC AND HYDROGRAPHIC SURVEYS WERE PERFORMED BY BAYLAND FEBRUARY 7, 2023 AND OCTOBER 11, 2023. CONTOURS SHOWN OUTSIDE OF LIMIT OF WORK ARE BASED ON ANNE ARUNDEL COUNTY
- PROPERTY LINES SHOWN ARE BASED ON ANNE ARUNDEL COUNTY CADASTRAL DATA.
- THE PROJECT SITE IS WITHIN FEMA FLOODPLAIN LIMITS (ZONE VE 7 FT NAVD88) SHOWN ON FEMA FIRM 24003C0186F.
- THE PROJECT SITE IS WITHIN RESOURCE CONSERVATION AREA (RCA) OF CHESAPEAKE BAY CRITICAL AREA.
- 3. THE PROJECT SITE IS WITHIN THE 100' CRITICAL AREA BUFFER.
- MARYLAND WETLAND LICENSE NO. 20-WL-0472. U.S. ARMY CORPS OF ENGINEERS PERMIT 202060736.

TIME OF YEAR RESTRICTION

NO IN-WATER WORK SHALL BE PERFORMED BETWEEN FEBRUARY 15 THROUGH OCTOBER 15, INCLUSIVE OF ANY YEAR, AS SPECIFIED IN THE PERMITS.

SIEP 1	_	SHALL BE DISPLAYED ON SITE AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.
STEP 2	_	THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, WATER AND SEWER LINES. NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (410-222-7780) AT LEAST 48 HOURS BEFORE COMMENCING WORK, AND M.D.E. INSPECTIONS AND COMPLIANCE (410-537-3510) AT LEAST TEN (10) DAYS PRIOR TO COMMENCING TIDAL WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.
STEP 3	_	HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT

- REPRESENTATIVES INCLUDING BUT NOT LIMITED TO AACO DPW. DRP REPRESENTATIVES, ENGINEER, CONTRACTORS, UTILITY REPRESENTATIVES, INSPECTOR, ETC. CLEAR MINIMUM AREA NECESSARY TO INSTALL ANY REQUIRED ACCESS AND EROSION AND SEDIMENT CONTROL MEASURES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO STABILIZED CONSTRUCTION ENTRANCE, TURBIDITY CURTAIN, REINFORCED
- CONTROLS AS DIRECTED BY THE SEDIMENT CONTROL ONCE THE SEDIMENT CONTROLS HAVE BEEN INSTALLED, 1 DAY CONTACT THE INSPECTOR FOR APPROVAL OF SEDIMENT CONTROL INSTALLATION PRIOR TO COMMENCING WORK INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING. PERFORM NECESSARY BEACH CLEARING. DEMO EXISTING

SILT FENCE (RSF), AND ANY OTHER SEDIMENT EROSION

- STAIRS. CLEAR PROJECT AREA OF ANY TRASH AND DEBRIS. DISPOSE OFF-SITE TO AN APPROVED UPLAND DISPOSAL SITE. INSTALL STONE STRUCTURES AS INDICATED ON THE PLANS. GRADE STEEP BANKS AND PLACE CUT MATERIAL IN DESIGNATED ON-SITE PLACEMENT AREA. PLACE SAND FILL AND COBBLE TOE AT LIVING SHORELINE AND GRADE AS SHOWN ON THE PLANS. NO MORE AREA SHALL BE DISTURBED BY GRADING/EXCAVATION THAN CAN BE PROTECTED BY THE STONE STRUCTURES AND/OR STABILIZED BY THE END OF EACH WORKING DAY. THE INTENTION OF THIS RESTRICTION IS TO ENSURE GRADING OPERATIONS DO NOT
- OUT-PACE STABILIZATION EFFORTS. STOCKPILE ALL MATERIAL SUITABLE FOR REUSE AND/OR AS DIRECTED BY THE INSTALL MARSH PLANTINGS AND SHRUBS AS SHOWN ON THE 15 DAYS PLANS. STABILIZE PLACEMENT AREA. INSTALL GOOSE AND INSTALL ADA PERMEABLE ACCESS PATH AND PARKING, WORK

CAN BE DONE CONCURRENTLY W/ STEPS 7 & 8.

ONCE THE AREA HAS BEEN 95% STABILIZED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES. IMMEDIATELY STABILIZE ANY DISTURBED AREAS THAT RESULT FROM THE SEDIMENT CONTROL DEVICES.

TOTAL: 110 DAYS

APPROXIMATE PROPERTY LINE

EX. WOOD FENCE

EX. MAJOR CONTOUR

EX. MINOR CONTOUR

EX. TOP OF BANK

EX. BOTTOM OF BANK

EX. MLW

EX. MHW

1 DAY

PROJECT INFORMATION

 OWNER/DEVELOPER: ANNE ARUNDEL COUNTY DPW CONTACT: MELISSA HARLINSKI, 2. OWNER/DEVELOPER INFORMATION: 2662 RIVA ROAD - 3RD FLOOR ANNAPOLIS, MD 21401 BAYLAND CONSULTANTS AND DESIGNERS, INC. 7455 NEW RIDGE ROAD, SUITE T 4. ENGINEER INFORMATION: HANOVER, MARYLAND 21076 7. DEED REF: 23634/ 00103 8. LOT: DISTRICT: 10. ZONING: COUNTY PARK 11. USE: 12. SUBWATERSHED: MAGOTHY RIVER TIDAL STREAM 13. WATERSHED: MAGOTHY RIVER 14. GRADING PERMIT: G02020037 15. WETLAND LICENSE:

1.30'

NOT TO SCALE

DATUM COMPARISON BASED ON NATIONAL OCEANIC AND

ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM FROM

SITE LOCATION (LONG) -76°28'25", (LAT) 39°03'36".

1.00'

CRITICAL AREA BUFFER EX. FEMA FLOODPLAIN (ZONE AE) — ZONE AE — EX. FEMA FLOODPLAIN (ZONE VE) EX. 500-YEAR FEMA FLOODPLAIN EX. MARSH EX. POND EX. SAV 20-WL-0472 EX. STONE REVETMENT EX. TREE EX. TREE (TO BE REMOVED) 100 YR FLOOD ELEV. (ZONE AE) EX. BENCH

EX. SIGN ADA COMPLIANCE NOTE

order to meet the adopted 2010 ADA minimum DATUM CONVERSIONS

requirements and in accordance with the public ights-of-way Accessibility Guidelines (PROWAG) published by the U.S. Access Board in 2011, all public and private pedestrian access routes, sidewalks, curb and gutter, curb ramps, and traffic control devices shall be designed in accordance with the Anne Arundel County Pedestrian facility standards PFI - PF29

PROJECT NO. P468700 PROPOSAL NO. P468709

MAY 2024

SITE

LOCATION MAP

PR. MOBI-MAT

Phone: (410) 694-9401

Fax: (410) 694-9105

Consultants & Designers, Inc.

"Integrating Engineering and Environment"

www.baylandinc.com

BAYLAND JOB NO. 5_18802

7455 New Ridge Road, Suite T

PR. BORING _____ PR. CONSTRUCTION BASELINE PR. STABILIZED CONSTRUCTION ENTRANCE PR. CONSTRUCTION ACCESS ROAD PR. WETLAND PROTECTION MATTING PR. BIODEGRADABLE STABILIZATION MATTING PR. LIMIT OF DISTURBANCE ____ LOD ____ PR. REINFORCED SILT FENCE & LIMIT OF DISTURBANCE PR. TURBIDITY CURTAIN <u> — тс —</u> A-2 A-2 A-2 PR. MAJOR CONTOUR PR. MINOR CONTOUR -----PR. SAND FILL * * * * * PR. MARSH PLANTINGS PR. SHRUB PLANTINGS PR. MITIGATION TREE PLANTINGS PR. STONE SILL PR. ADA ACCESSIBLE PERMEABLE PAVER *URKIRKIRI* PR. PARKING

AS-BUILT STORMWATER CERTIFICATION

"ALL GRADING, DRAINAGE, STRUCTURES, AND EROSION AND SEDIMENT CONTROL PRACTICES INCLUDING FACILITIES AND VEGETATIVE MEASURES HAVE BEEN COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AS REQUIRED BY COMAR 26.17.01.07B(3)(H)."

DEVIATIONS AND DIFFERENCES IN CONSTRUCTED FIELD CONDITIONS ARE SHOWN (REDLINED) ON

STORMWATER MANAGEMENT SYSTEMS INDICATED ON THESE DRAWINGS HAVE BEEN INSTALLED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS

PROFESSIONAL ENGINEER 21194 SEPEHR BAHARLOU

MD P.E. REGISTRATION NO.

THE DEVELOPER'S PLAN TO CONTROL SILT AND EROSION IS ADEQUATE TO CONTAIN THE SILT AND EROSION ON THE PROPERTY COVERED BY THE PLAN. I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THIS SITE, AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASCD PLAN SUBMITTAL GUIDELINES AND THE CURRENT MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL. HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER

MD P.E. LICENSE # 21194 FIRM NAME BAYLAND CONSULTANTS & DESIGNERS, INC ADDRESS 7455 NEW RIDGE ROAD, SUITE T

PRINTED NAME

CITY HANOVER STATE MD ZIP CODE ______21076

53.79 ACRES 1.1. PROPOSED DISTURBED AREA: 1.68 ACRES 1.1.1. SHORELINE RESTORATION DISTURBED AREA: 1.44 ACRES 1.1.2. LANDSIDE IMPROVEMENTS DISTURBED AREA: 0.24 ACRES 2. TOTAL AREA TO BE STABILIZED: 1.68 ACRES 2.1. SHORELINE RESTORATION 2.1.1. TOTAL EX. COMPACTED ACCESS ROAD TO REMAIN: 0.54 ACRES 2.1.2. TOTAL TO BE STABILIZED WITH VEGETATION: 0.90 ACRES 2.2. LANDSIDE IMPROVEMENTS 2.2.1. TOTAL EX. COMPACTED ACCESS ROAD TO REMAIN: 0.03 ACRES TOTAL PR. IMPERVIOUS AREA: 0.08 ACRES TOTAL TO BE STABILIZED WITH VEGETATION: 0.13 ACRES 3. PROPOSED IMPERVIOUS AREA: 0.08 ACRES 4. ESTIMATED EARTH CUT: 1385 CY 5. ESTIMATED EARTH FILL: 1385 CY 6. ESTIMATED SAND FILL: 635 CY

THE EARTHWORK QUANTITIES SHOWN HEREON ARE FOR INFORMATION PURPOSES ONLY. BAYLAND MAKES NO GUARANTEES OF ACCURACY OF QUANTITIES OR BALANCE OF SITE. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY OF ACTUAL EARTHWORK QUANTITIES ENCOUNTERED DURING CONSTRUCTION.

POLLUTANT REDUCTION CREDITS SHORELIN PROPOSED SHORELINE _ENGTH AREA TREATED STABILIZATION MEASURES (ACRES) (LBS/YR) | (LBS/YR) | (TONS/YR) LIVING SHORELINE — STONE BREAKWATER AND MARSH 133.3 77.7 22.6 PLANTINGS * RECOMMENDATIONS OF THE EXPERT PANEL TO DEFINE REMOVAL RATES FOR SHORELINE MANAGEMENT PROJECTS (VERSION AMENDED

PROFESSIONAL CERTIFICATION

AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 21194, EXPIRATION DATE: 04/20/2026.

SHEET LIST TABLE

Sheet Title COVER SHEET SITE ACCESS PLAN KEY SHEET EXISTING CONDITIONS & DEMOLITION PLAN SITE PLAN CROSS SECTIONS & DETAILS SITE DETAILS EROSION SEDIMENT CONTROL NOTES & PLANTING PLAN

PLANTING PLAN

STANDARD RESPONSIBILITY NOTES

(AASCD) BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.

a. ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN, AND FURTHER, AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT

b. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

RESPONSIBLE PERSONNEL ON SITE:

c. IF APPLICABLE, THE APPROPRIATE ENCLOSURE WILL BE CONSTRUCTED AND MAINTAINED ON SEDIMENT BASIN(S) INCLUDED IN THIS PLAN. SUCH STRUCTURE(S) WILL BE IN COMPLIANCE WITH THE ANNE ARUNDEL COUNTY CODE.

RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THE PLAN. FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT AND/OR TEMPORARY

2. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHT, AND/OR

STABILIZATION PER THE AASCD VEGETATIVE ESTABLISHMENT SHALL BE CÓMPLETED WITHIN THREE CALENDAR DAYS FOR THE SURFACE OF ALL CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1): AND SEVEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITÈ.

4. THE GRADING AND SEDIMENT CONTROL APPROVAL ON THIS PLAN EXTENDS ONLY TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE.

5. THE APPROVAL OF THIS PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH FEDERAL, STATE OR COUNTY REQUIREMENTS PÉRTAINING TO ENVIRONMENTAL ISSUES. 6. THE DEVELOPER MUST REQUEST THAT THE SEDIMENT AND EROSION CONTROL INSPECTOR

APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED FROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.

7. ALL MATERIAL SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN.

8. FIRST PHASE INSPECTION AND APPROVAL OF THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL BE REQUIRED UPON COMPLETION OF THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS PRIOR TO PROCEEDING WITH ANY OTHER FARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IS GIVEN. INSPECTION AND PERMITS MAY ALSO REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.

9. APPROVAL FROM THE INSPECTOR MUST BE REQUESTED ON FINAL STABILIZATION OF ALL SITES PRIOR TO REMOVAL OF SEDIMENT AND EROSION CONTROLS.

10. EXISTING TOPOGRAPHY MUST BE FIELD VERIFIED BY RESPONSIBLE PERSONNEL TO THE SATISFACTION OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK.

SIGNATURE OF DEVELOPER/OWNER NAME: MELISSA HARLINSKI TITLE: PROJECT MANAGER AFFILIATION: ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS ADDRESS: 2662 RIVA ROAD, ANNAPOLIS, MARYLAND 21401 TELEPHONE NUMBER: 410-222-4126

EMAIL ADDRESS: PWHARL45@AACOUNTY.ORG

PROPOSAL NO. P468709

NOVEMBER 2021). ** ACCOUNTING FOR STORMWATER WASTELOAD ALLOCATIONS AND IMPERVIOUS ACRES TREATED (VERSION DATE IS 2021).

FNGINFER ADMINISTRATOR

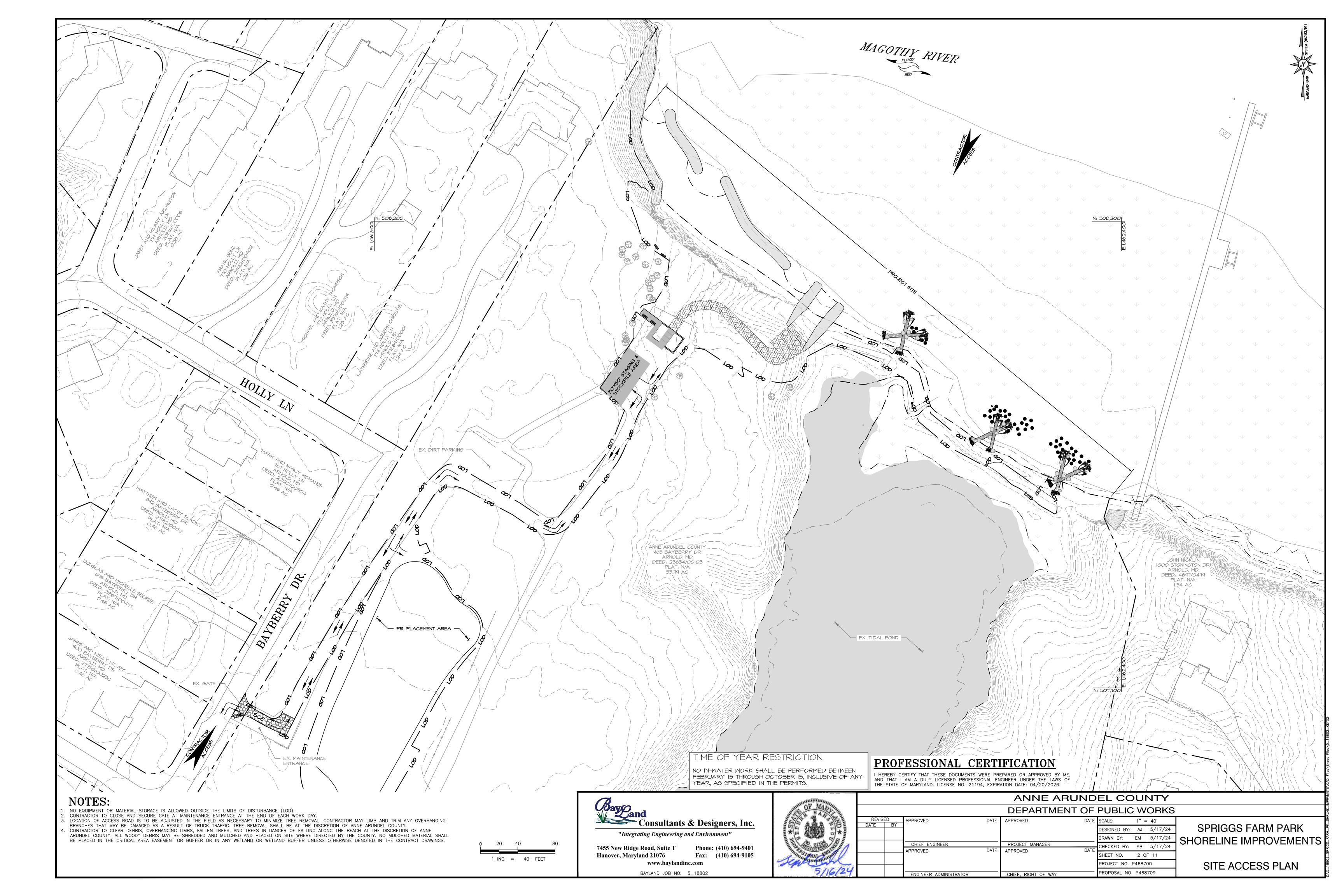
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME,

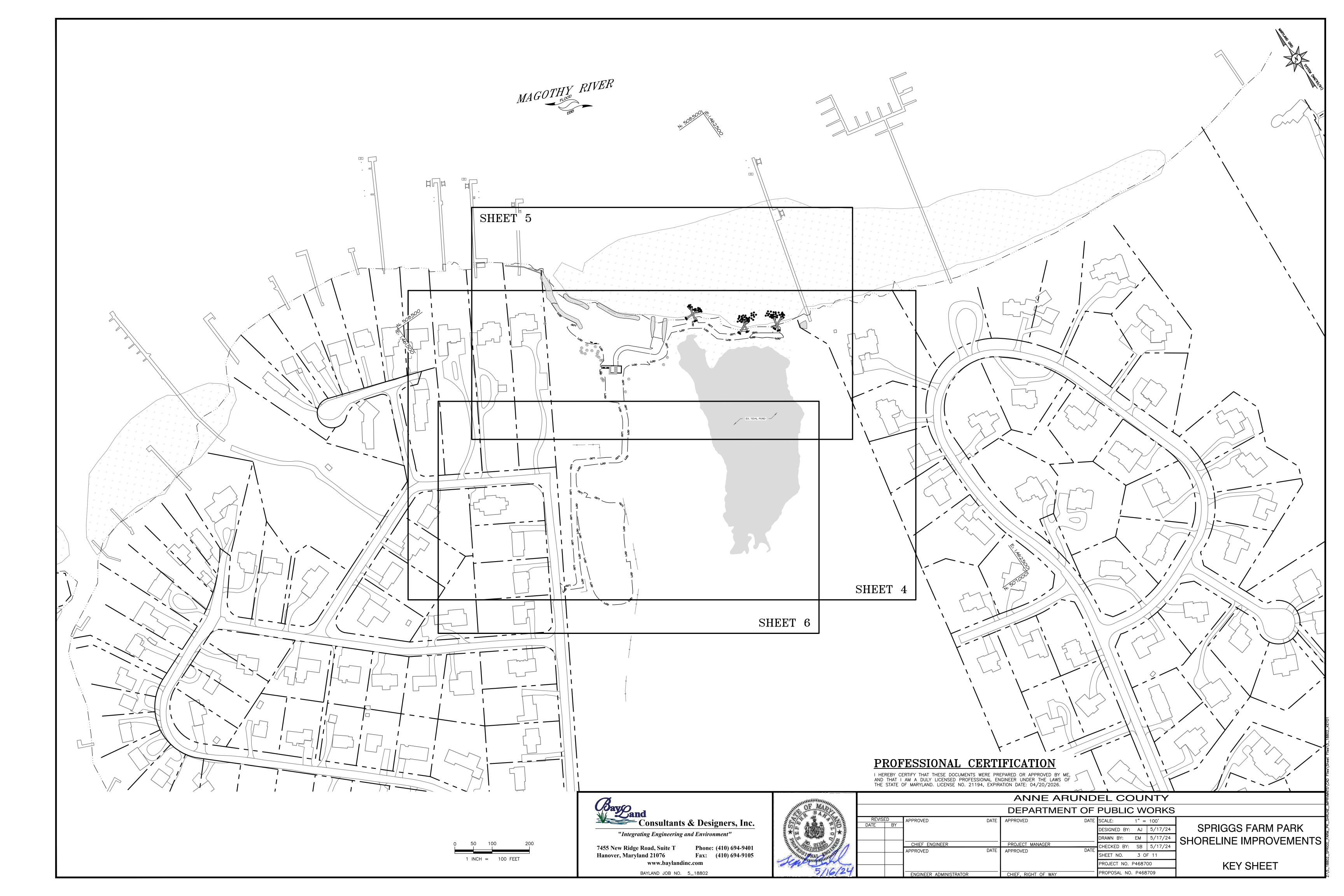
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TE	BY					DESIGNED BY:	AJ	5/17/24
						DRAWN BY:	EM	5/17/24
		CHIEF ENGINEER	DATE	PROJECT MANAGER	DATE	CHECKED BY:	SB	5/17/24
		APPROVED	DATE	APPROVED	DATE	SHEET NO.	1 O)F 11
						PROJECT NO. P468700		00

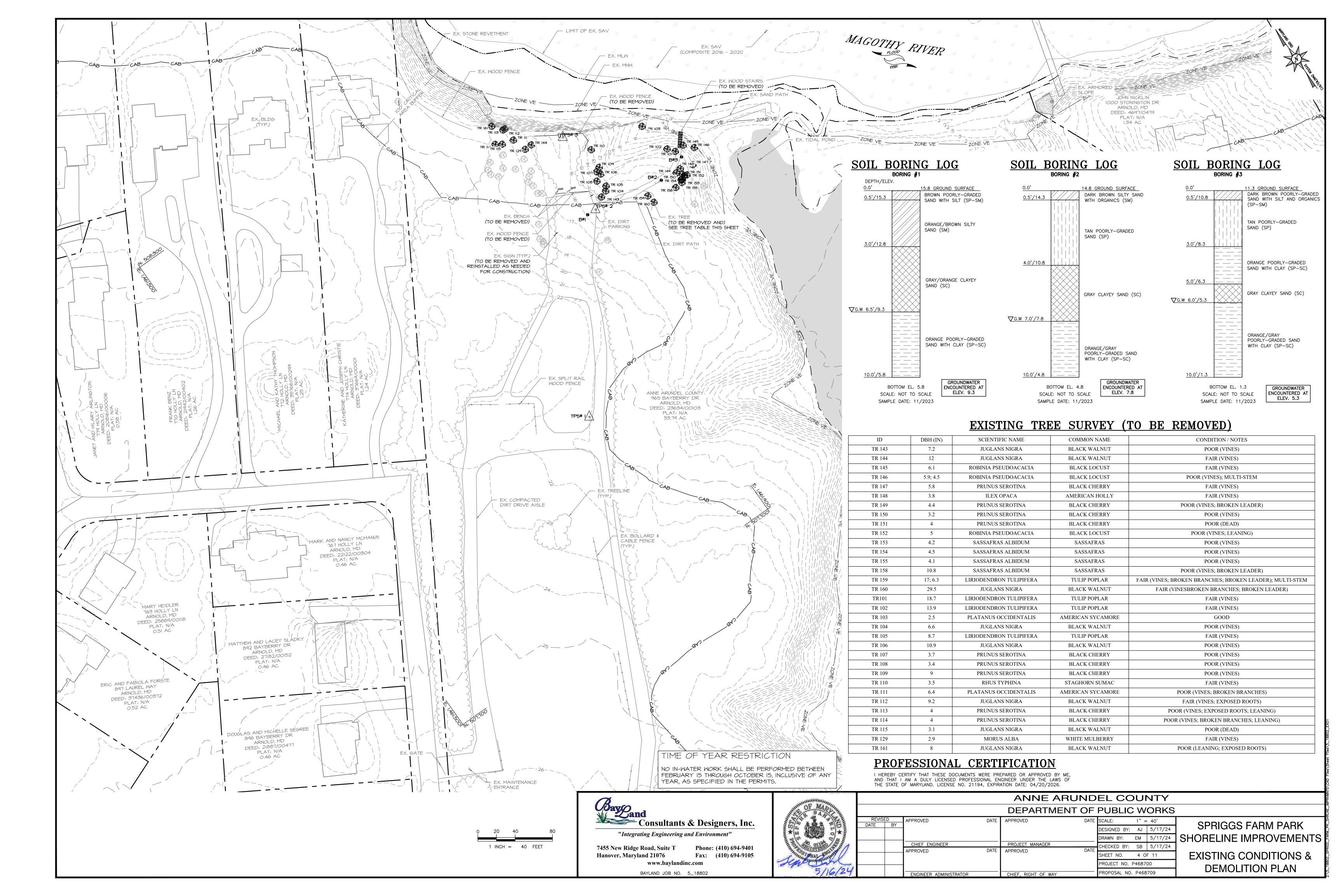
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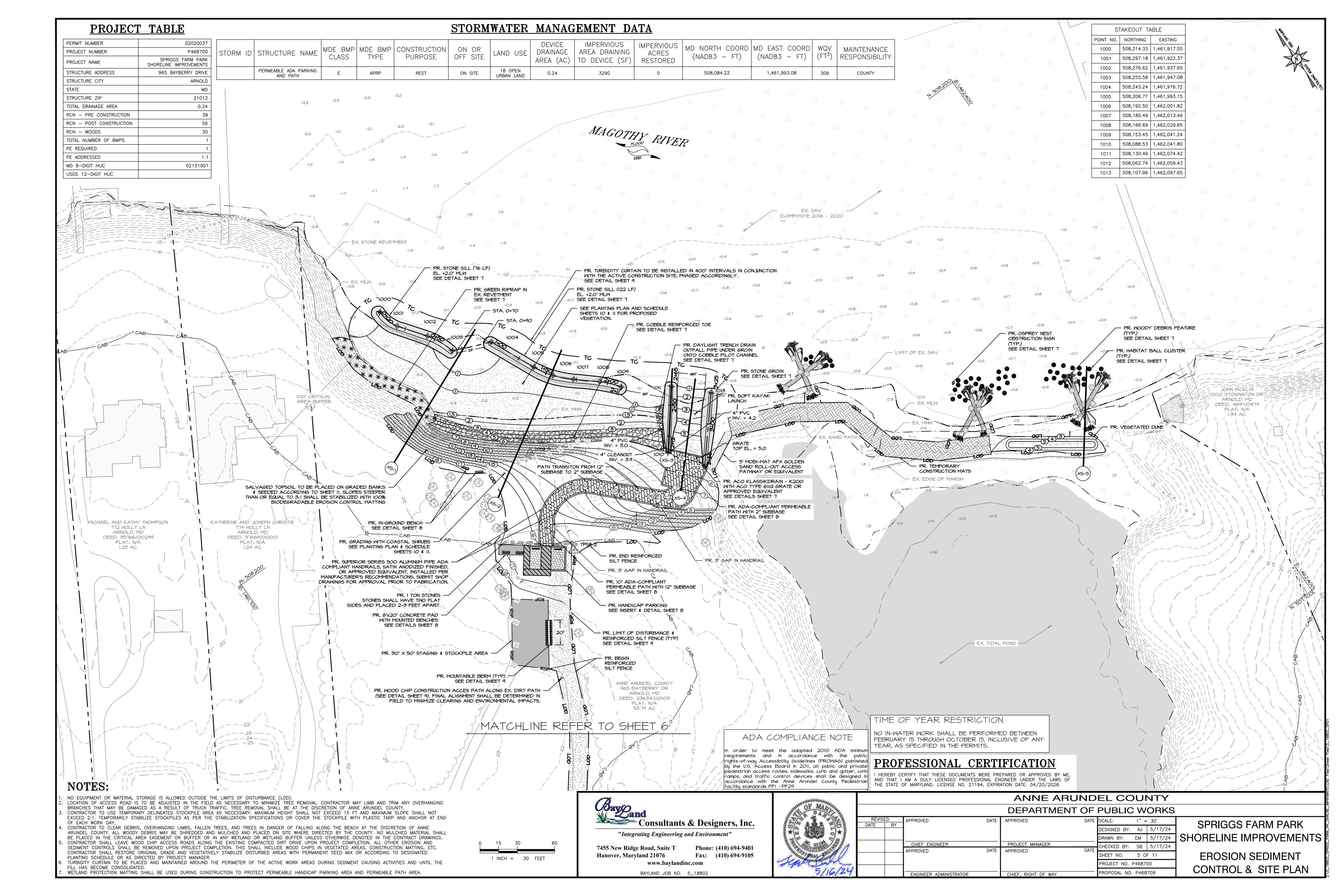
SPRIGGS FARM PARK SHORELINE IMPROVEMENTS

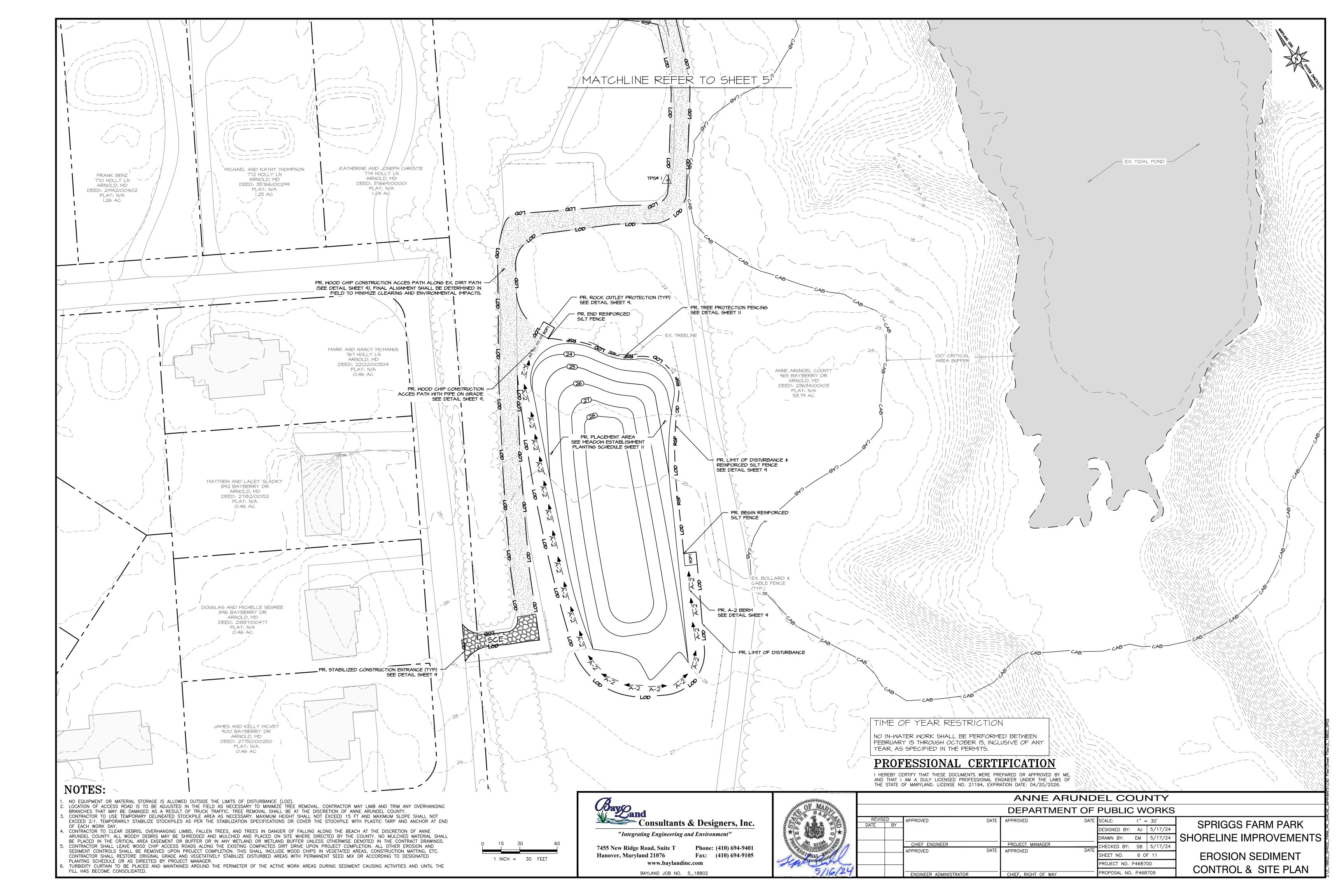
COVER SHEET

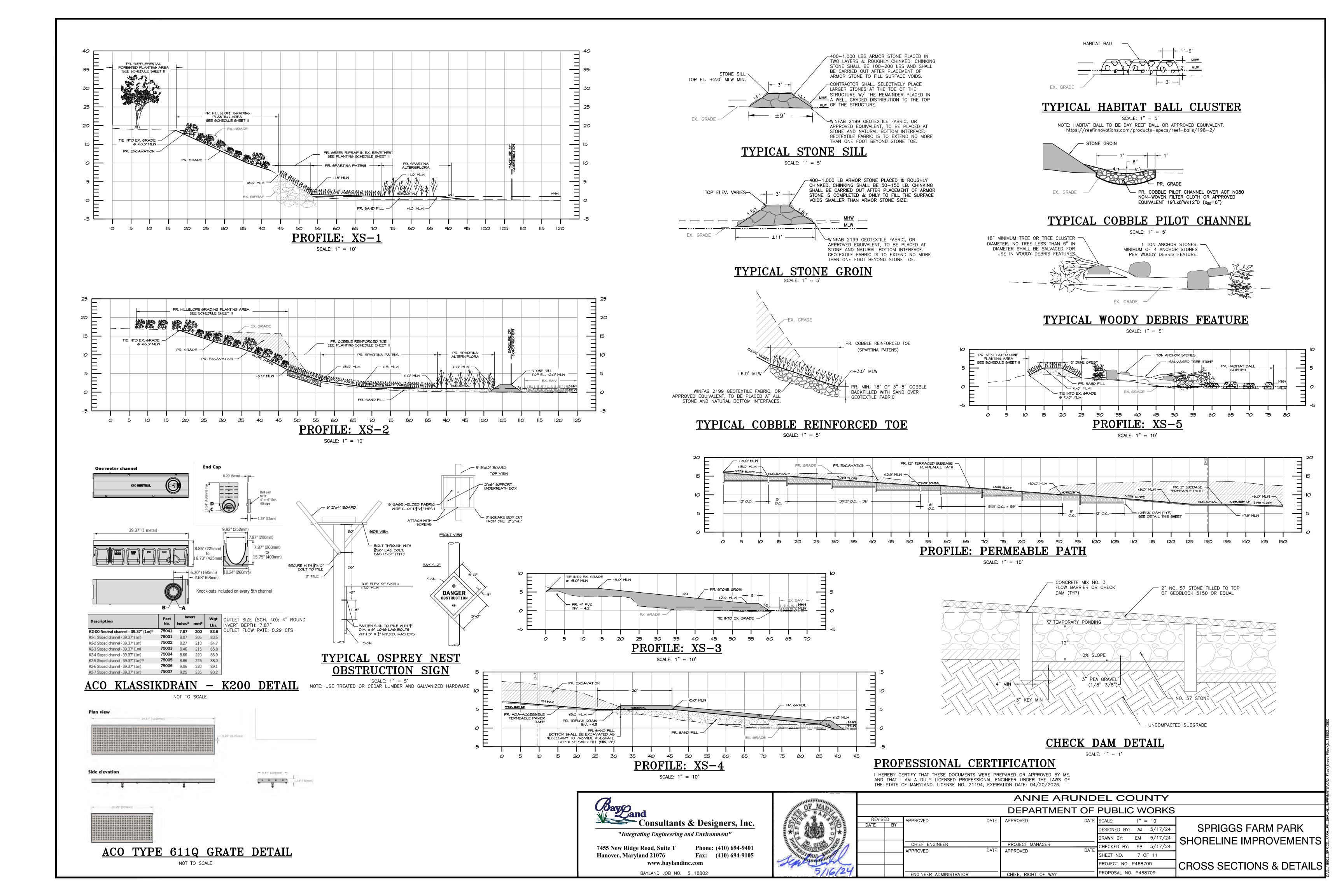


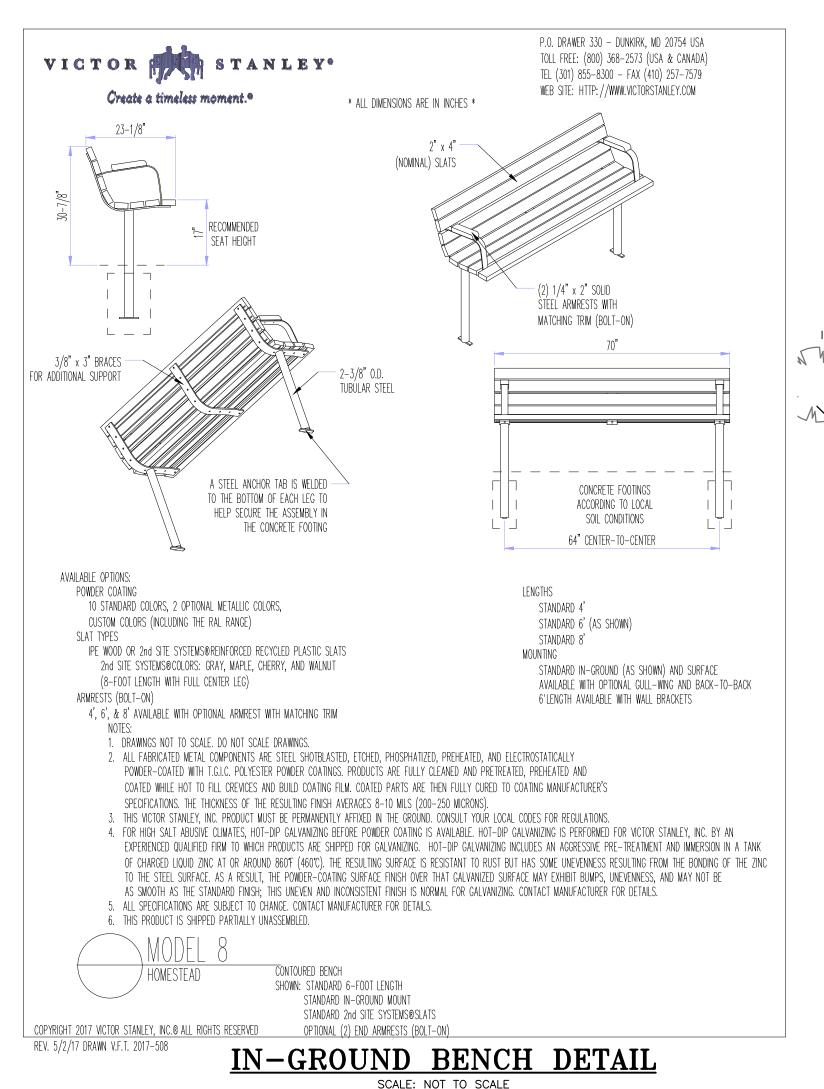


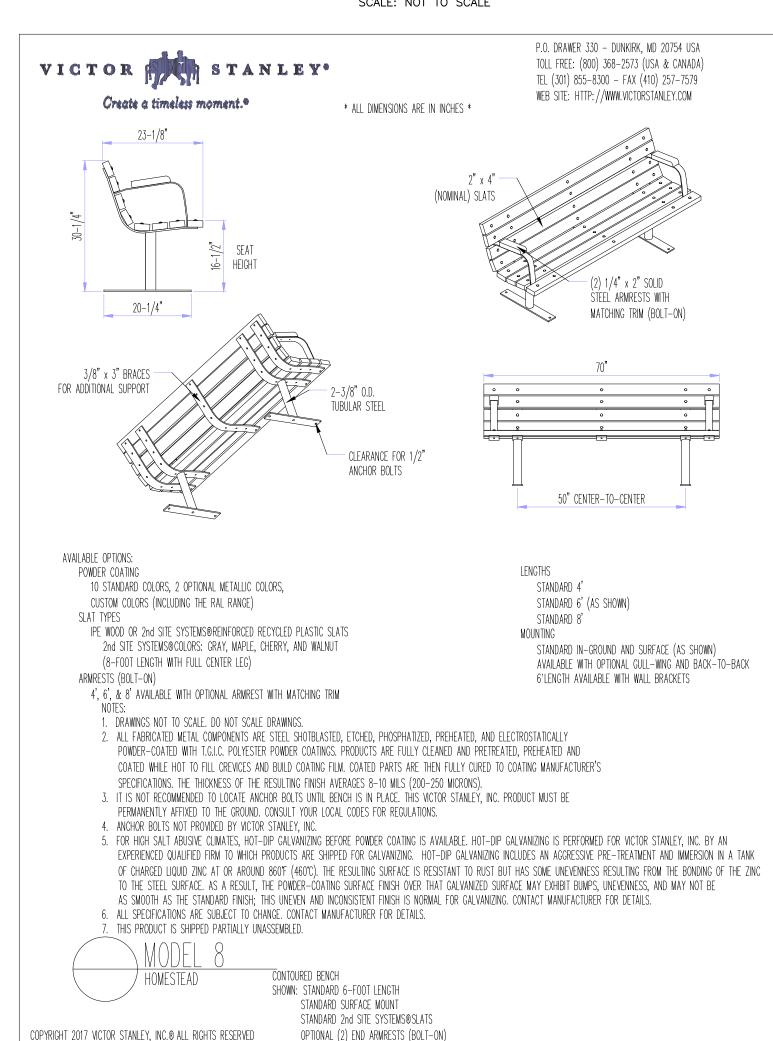








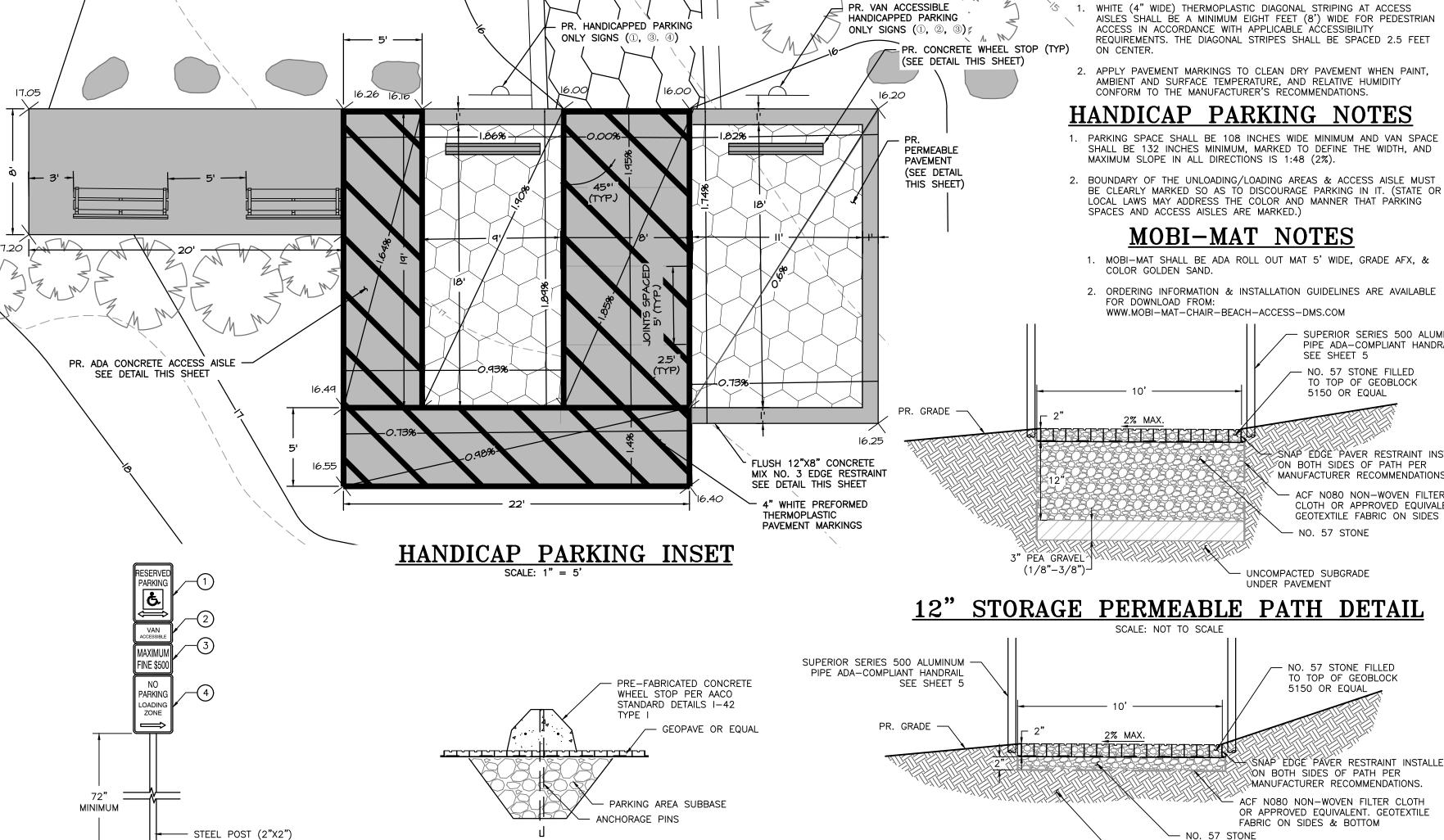




MOUNTED BENCH DETAIL

SCALE: NOT TO SCALE

REV. 5/2/17 DRAWN V.F.T. 2017-506



CONCRETE WHEEL STOP

SCALE: NOT TO SCALE

1. WHEEL STOP TO BE CONSTRUCTED CONSISTENT WITH

2. CONCRETE TO BE MIX NO. 2. OR AS APPROVED BY

STANDARD DETAIL I-42.

THE COUNTY.

HANDICAP PARKING SIGN

- FINAL GRADE

CONCRETE

BASE

ADA COMPLIANCE NOTE

order to meet the adopted 2010 ADA minimum

requirements and in accordance with the public

riahts-of-way Accessibility Guidelines (PROWAG) published

by the U.S. Access Board in 2011, all public and private

pedestrian access routes, sidewalks, curb and qutter, curb

. ramps, and traffic control devices shall be designed in

acc'ordance with the Anne Arundel County Pedestrian

facility standards PFI - PF29

- FLUSH 12"x8" CONCRETE MIX NO. 3 EDGE RESTRAINT (ALL 4 SIDES) SEE DETAIL THIS SHEET - CONCRETE WHEEL STOP SEE DETAIL THIS SHEET GEOPAVE AGGREGATE 2" PRESTO'S GEOPAVE SYSTEM OR APPROVED EQUIVALENT (HERRINGBONE PATTERN) 12" GEOPAVE AGGREGATE BASE UNCOMPACTED SUBGRADE UNDER PAVEMENT ACF N080 NON-WOVEN FILTER 3" PEA GRAVEL-CLOTH OR APPROVED EQUIVALENT. GEOTEXTILE ON SIDES ONLY

PERMEABLE PAVEMENT DETAIL

SCALE: 1" = 1'

GEOPAVE SYSTEM MANUFACTURED BY REYNOLDS PRESTO PRODUCTS, INC. PHONE: 920-738-1328 WEBSITE: WWW.PRESTOGEO.COM FOR INSTALLATION GUIDLINES

MAINTENANCE AND INSPECTION NOTES FOR PERMEABLE PAVEMENT

- 1. PAVEMENTS SHOULD BE USED ONLY WHERE REGULAR MAINTENANCE CAN BE PERFORMED. MAINTENANCE AGREEMENTS SHOULD CLEARLY SPECIFY HOW TO CONDUCT ROUTINE TASKS TO ENSURE LONG-TERM PERFORMANCE.
- 2. PAVEMENT SURFACES SHOULD BE SWEPT AND VACUUMED TO REDUCE SEDIMENT ACCUMULATION AND ENSURE CONTINUED SURFACE POROSITY. SWEEPING SHOULD BE PERFORMED AT LEAST TWICE ANNUALLY WITH A COMMERCIAL CLEANING UNIT. WASHING SYSTEMS AND COMPRESSED AIR UNITS SHOULD NOT BE USED TO PERFORM SURFACE CLEANING.
- 3. DRAINAGE PIPES, INLETS, STONE EDGE DRAINS, AND OTHER STRUCTURES WITHIN OR DRAINING TO THE SUBBASE SHOULD BE CLEANED OUT AT REGULAR INTERVALS.
- 4. TRUCKS AND OTHER HEAVY VEHICLES CAN GRIND DIRT AND GRIT INTO THE POROUS SURFACES, LEADING TO CLOGGING AND PREMATURE FAILURE. THESE VEHICLES SHOULD BE PREVENTED FROM TRACKING AND SPILLING MATERIAL ONTO THE PAVEMENT.
- 5. DEICERS SHOULD BE USED IN MODERATION. WHEN USED, DEICERS SHOULD BE NON-TOXIC AND ORGANIC AND CAN BE APPLIED EITHER AS CALCIUM MAGNESIUM ACETATE OR AS PRETREATED SALT. SNOW PLOWING SHOULD BE DONE CAREFULLY WITH BLADES SET ONE-INCH HIGHER THAN NORMAL. PLOWED SNOW PILES AND SNOWMELT SHOULD NOT BE DIRECTED TO PERMEABLE PAVEMENT.

Consultants & Designers, Inc. "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401 Hanover, Maryland 21076 Fax: (410) 694-9105 www.baylandinc.com

BAYLAND JOB NO. 5_18802

NOTES:

1. NO SECTION SHALL BE SHORTER THAN 4' IN LENGTH.

6 X 6 X W2.9 X W2.9

WELDED WIRE 2" CL.

CONTROL JOINTS, -

1" DEEP, ₹ RAD.

1. PANELS SHALL BE 5' IN LENGTH.

ANNE ARUNDEL SOIL CONSERVATION **DISTRICT DETAILS AND SPECIFICATIONS** FOR VEGETATIVE ESTABLISHMENT

FOLLOWING INITIAL SOIL DISTURBANCES OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

1. PERMANENT SEEDING:

- SUPERIOR SERIES 500 ALUMINUM

EDGE PAVER RESTRAINT INSTALLED

PIPE ADA-COMPLIANT HANDRAIL

SEE SHEET 5

- NO. 57 STONE FILLED

5150 OR EQUAL

YON BOTH SIDES OF PATH PER

─ NO. 57 STONE

MO. 57 STONE FILLED

5150 OR EQUAL

ON BOTH SIDES OF PATH PER

MANUFACTURER RECOMMENDATIONS.

ACF NO80 NON-WOVEN FILTER CLOTH

OR APPROVED EQUIVALENT. GEOTEXTILE

FABRIC ON SIDES & BOTTOM

PREPARED SUBGRADE

– 4" MIX NO. 3 CONCRETE

2" SUBBASE PERMEABLE PATH DETAIL

1. PAVER EDGE RESTRAINT TO BE SNAP EDGE OR APPROVED EQUIVALENT. https://sek.us.com/products/sek-paver-restraints/snap-edge/

2. PREFORMED 3 EXPANSION JOINTS SHALL BE USED EVERY 15'. 1" DEEP, 3 RADIUS

CONCRETE EDGE RESTRAINT DETAIL

SCALE: NOT TO SCALE

2. PREFORMED 3" EXPANSION JOINTS SHALL BE USED EVERY 15', CONTROL JOINTS SHALL BE USED EVERY 5'

PPROVED

PPROVED

CHIFF ENGINEER

ENGINEER ADMINISTRATOR

AND 1 EXPANSION JOINTS SHALL BE USED WHERE EDGE RESTRAINT MEETS ADA CONCRETE ACCESS AISLE.

<u>PROFESSIONAL CERTIFICATION</u>

THE STATE OF MARYLAND. LICENSE NO. 21194, EXPIRATION DATE: 04/20/2026

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

EDGE RESTRAINT MEETS ADA CONCRETE ACCESS AISLE.

CONTROL JOINTS SHALL BE USED EVERY 5'. 3" EXPANSION JOINTS SHALL BE USED WHERE

PER A.A. CO. SPEC 02670

TO TOP OF GEOBLOCK

(ŚŃAP^EDGE PÁVER RESTRAINT INSTALLED

PREFORMED EXPANSION

AND EDGE RESTRAINT (TYP.)

OINTS TO BE USED BETWEEN ACCESS AISLE

4" GAB AS DIRECTED

PER A.A. CO. SPEC 02670

JOINT SEALANT, BACKER ROD

F PREFORMED EXPANSION

JOINTS TO BE USED

EVERY 15'

APPROVED

APPROVED

PROJECT MANAGER

CHIEF, RIGHT OF WAY

PREPARED SUBGRADE

PER A.A. CO. SPEC 02670

PREPARED SUBGRADE

BY ENGINEER

CONCRETE MIX NO. 3

EDGE RESTRAINT

UNCOMPACTED SUBGRADE

MANUFACTURER RECOMMENDATIONS.

ACF NO80 NON-WOVEN FILTER

CLOTH OR APPROVED EQUIVALENT.

GEOTEXTILE FABRIC ON SIDES ONLY

TO TOP OF GEOBLOCK

STRIPING SPECIFICATIONS

- A. SOIL TESTS: LIME AND FERTILIZER WILL BE APPLIED PER SOIL TESTS RESULTS FOR SITES GREATER THAN 5 ACRES. SOIL TESTS WILL BE DONE AT COMPLETION OF INITIAL ROUGH GRADING OR AS RECOMMENDED BY THE SEDIMENT CONTROL INSPECTOR. RATES AND ANALYSES WILL BE PROVIDED TO THE GRADING INSPECTOR AS WELL AS THE CONTRACTOR.
- OCCURRENCE OF ACID SULFATE SOILS (GRAYISH BLACK COLOR) WILL REQUIRE COVERING WITH A MINIMUM OF 12 INCHES OF CLEAN SOIL WITH 6 INCHES MINIMUM CAPPING OF TOP SOIL. NO STOCKPILING OF MATERIAL IS ALLOWED. IF NEEDED, SOIL TESTS SHOULD BE DONE BEFORE AND AFTER A 6-WEEK INCUBATION PERIOD TO ALLOW OXIDATION OF SULFATES.

THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT

- a. SOIL PH SHALL BE BETWEEN 6.0 AND 7.0.
- b. SOLUBLE SALTS SHALL BE LESS THAN 500 PARTS PER MILLION (PPM). c. THE SOIL SHALL CONTAIN LESS THAN 40% CLAY BUT ENOUGH FINE GRAINED MATERIAL (> 30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION IS IF LOVEGRASS OR SERECIA LESPEDEZA IS TO BE PLANTED, THEN A SANDY SOIL (< 30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.
- d. SOIL SHALL CONTAIN 1.5% MINIMUM ORGANIC MATTER BY WEIGHT. e. SOIL MUST CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- f. IF THESE CONDITIONS CANNOT BE MET BY SOILS ON SITE, ADDING TOPSOIL IS REQUIRED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS FROM THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR AMENDMENTS MADE AS RECOMMENDED BY A CERTIFIED AGRONOMIST.
- B. SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3-5 INCHES. THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-10-10 FERTILIZER PER 1.000 SQUARE FEET. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3-5 INCHES ON SLOPES
- C. SEEDING: APPLY 5-6 POUNDS PER 1,000 SQUARE FEET OF TALL FESCUE BETWEEN FEBRUARY 1 AND APRIL 30 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDER, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER. RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE WHERE NECESSARY TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. IF OTHER SEED MIXES ARE TO BE USED, SELECT FROM TABLE B3 AND B5 OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- D. MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED. UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH-ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATÉRIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND, TO A DEPTH OF 1-2 INCHES.
- E. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE MOVEMENT BY WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
- i. USE A MULCH-ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH, HOWEVER, IT IS LIMITED TO
- RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY. ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. iii. LIQUID BINDERS MAY BE USED. APPLY AT HIGHER RATES AT THE EDGES WHERE WIND CATCHES MULCH. SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. TH REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION. BINDERS LISTED IN THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR
- SOIL EROSION AND SEDIMENT CONTROL OR APPROVED EQUAL SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURERS. iv. LIGHTWEIGHT PLASTIC NETTING MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 2. TEMPORARY SEEDING: LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SQUARE FEET. FERTILIZER: 15 POUNDS OF 10-10-10 PER 1,000 SQUARE FEET.
- SEED: PERENNIAL RYE 0.92 POUNDS PER 1,000 SQUARE FEET (FEBRUARY 1 THROUGH APRIL 30 OR AUGUST 15 THROUGH OCTOBER 31). MILLET - 0.92 POUNDS PER 1,000 SQUARE FEET (MAY 1 THROUGH AUGUST 15). MULCH: SAME AS 1 D AND E ABOVE. 3. NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL IS TO BE PLACED IN
- APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL COMPACTION REQUIREMENTS ARE IN ACCORDANCE TO ANNE. ARUNDEL COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS THE AA COUNTY DESIGN MANUAL AND STANDARD DETAILS. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER MD-378 CONSTRUCTION SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.

4. PERMANENT SOD:

INSTALLATION OF SOD SHOULD FOLLOW PERMANENT SEEDING DATES. SEEDBED PREPARATION FOR SOD SHALL BE AS NOTED IN SECTION (B) ABOVE. PERMANENT SOD IS TO BE TALL FESCUE, STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH AN APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE INSTALLED ON FROZEN GROUND. SOD SHALL NOT BE TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO ENSURE ESTABLISHMENT OF SOD.

5. MINING OPERATIONS:

SEDIMENT CONTROL PLANS FOR MINING OPERATIONS MUST INCLUDE THE FOLLOWING SEEDING DATES AND MIXTURES:

FOR SEEDING DATES OF FEBRUARY 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 31, USE SEED MIXTURE OF TALL FESCUE AT THE RATE OF 2 POUNDS PER 1,000 SQUARE FEET AND SERICEA LESPEDEZA AT THE MINIMUM RATE OF 0.5 POUNDS PER 1,000 SQUARE FEET.

- 6. TOPSOIL SHALL BE APPLIED AS PER THE STANDARD AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS FROM THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 7. USE OF THESE VEGETATIVE ESTABLISHMENT SPECIFICATIONS DOES NOT PRECLUDE THE PERMITTEE OR CONTRACTOR FROM MEETING ALL OF THE REQUIREMENTS SET FORTH IN THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

SEDIMENT CONTROL.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

DATE SCALE:

SHEET NO.

PROJECT NO. P468700

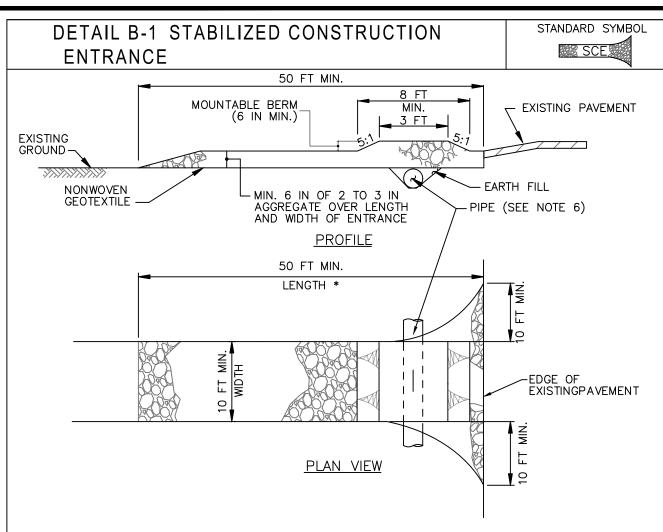
PROPOSAL NO. P468709

AS NOTED

8 OF 11

SPRIGGS FARM PARK DESIGNED BY: AJ 5/17/24 DRAWN BY: EM | 5/17/24 SHORELINE IMPROVEMENTS CHECKED BY: SB 5/17/24

SITE DETAILS



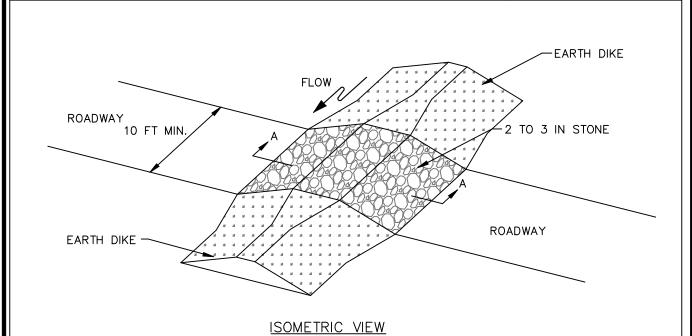
CONSTRUCTION SPECIFICATIONS

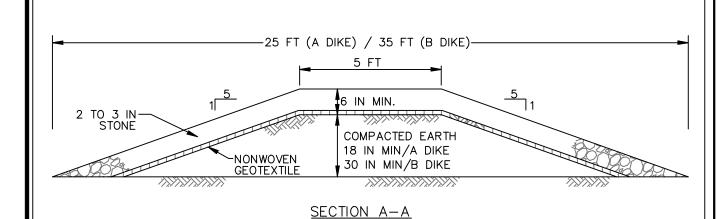
. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE. AS SPECIFIED IN SECTION H-1 MATERIALS.
- 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION DETAIL C-8 MOUNTABLE BERM ********





CONSTRUCTION SPECIFICATIONS

- USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.
- PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.
- PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.

MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL **A**−1 DETAIL C-1 EARTH DIKE PLACE DESIGNATION (e.g. A-1) ON FLOW CHANNEL SIDE OF DIK —2:1 SLOPE OR FLATTER 2:1 SLOPE OR FLATTER FXISTING-GROUND **DIKE TYPE** a — DIKE HEIGHT 18 IN MIN. 30 IN MIN. b – DIKE WIDTH 24 IN MIN. 36 IN MIN c - FLOW WIDTH 4 FT MIN. 6 FT MIN. d – FLOW DEPTH 12 IN MIN. 24 IN MIN.

FLOW CHANNEL STABILIZATION

PLAN VIEW

SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.) SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.

A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

- REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.
- . EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
- COMPACT FILL.
- 4. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- 5. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.

WETLAND PROTECTION

MATTING

GENERAL SPECIFICATIONS

OVERALL DIMENSIONS: 8 ' x 14 '

- SURFACE DIMENSIONS: 7 ' x 13

WEIGHT: VARIABLE (SEE BELOW)

ALL MEASUREMENTS AND WEIGHTS ARE NOMINAL.

MATTING. APPROVED COMPOSITE MATTING SUPPLIERS INCLUDE

800 LBS

1050 LBS

1050 LBS

LARGE MAT

SURETRAK

- MEGA DECK

RUGGED ROAD

- MEGA DECK SLP 800 LBS

0

6. STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.

MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

8. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED

MARYLAND STANDARDS AND SPECIFICATIONS	FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 20	MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION

000

EACH MAT IS EQUIPPED WITH A LIP ON TWO SIDES THAT CREATE AN OVERLAPPING JOINT WITH AN ADJOINING

THE USE OF INTERLOCKING COMPOSITE MATTING IS THE PREFERRED CHOICE FOR ACCESSING WETLANDS. ALL

TYPE OF MATTING, QUANTITY, SIZE AND DESIGN MUST TAKE INTO CONSIDERATION THE WEIGHT, SIZE AND

STRESSES. THIS GUIDANCE IS BASED UPON THE ENHANCED ABILITY TO OBTAIN PERMISSION FROM THE

ALL CONSTRUCTION TRAFFIC AND WORK AREAS IN WETLANDS AND WETLAND BUFFERS TO USE COMPOSITE

COMPOSITE CAM LOCKING SYSTEM

ALUMINUM CAM LOCKING SYSTEM

ALUMINUM CAM LOCKING SYSTEM

ALUMINUM CAM LOCKING SYSTEM

ALUMINUM CAM LOCKING SYSTEM

MATTING INSTALLATIONS MUST ADHERE TO AVOIDANCE AND MINIMIZATION PRINCIPLES TO CREATE THE LEAST

POTENTIAL IMPACT OF THE PROTECTED RESOURCE WHILE SAFELY ACCOMPLISHING THE NECESSARY WORK. THE

MOVEMENT OF THE EQUIPMENT THAT WILL BE USING THE TEMPORARY ACCESS STRUCTURE. THE CONTRACTOR IS

WEIGHT), ONE MUST INCLUDE THE WEIGHT OF MATERIALS THAT THE EQUIPMENT WILL BE HANDLING SUCH AS PILES

APPROPRIATE AGENCIES BY UTILIZING THIS TECHNOLOGY TO PERFORM WORK WITHIN ENVIRONMENTALLY SENSITIVE

EXPECTED TO FOLLOW MANUFACTURER RECOMMENDATIONS. WHEN CONSIDERING DESIGN LOADING (EQUIPMENT

STRUCTURES, LOADED CONCRETE TRUCKS, BUCKETS, CRANES AND OTHER APPARENT IMPACTS TO WEIGHT OR

MAT. EACH MAT IS ALSO EQUIPPED WITH 16 SLOTS INTO WHICH LOCKING PINS ARE INSERTED AND

ENGAGED IN ORDER TO FASTEN MULTIPLE MATS TOGETHER. WETLAND PROTECTION MATTING MUST BE

INSTALLED AT RIGHT ANGLES AND JOINED TOGETHER WITH PINS WHEN USED FOR WETLAND PROTECTION.

13'

STANDARD SYMBOL

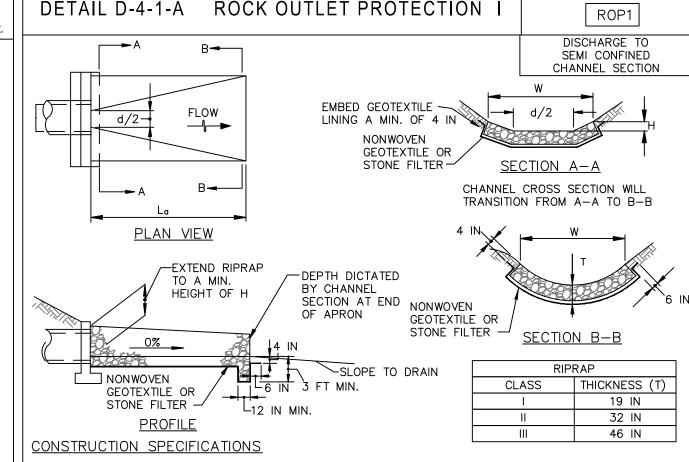
4IN HOLLOW REINFORCED CORE

4.25IN REINFORCED HOLLOW CORE

4.25IN REINFORCED HOLLOW CORE

1.5IN SOLID

1.5IN SOLID



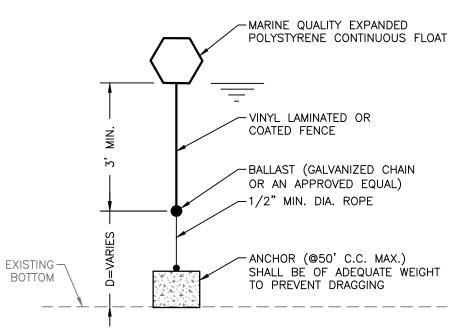
STANDARD SYMBOL

RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.

USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H—1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.

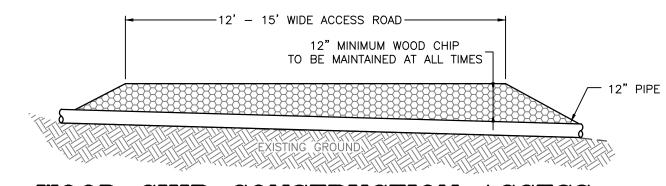
- 3. PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (¾ TO 1½ INCH STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- 4. EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF THE RIPRAP. 5. CONSTRUCT RIPRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER
- AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE STONE FOR RIPRAP OUTLET IN A MANNER THAT WILL FNSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RIPRAP IN A MANNER TO PREVENT DAMAGE TO THE STONE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY
- WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
- CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS IN WITH EXISTING GROUND.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED RIPRAP. MAKE NECESSARY

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

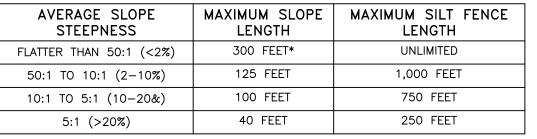


TYPE II - TURBIDITY CURTAIN DETAIL NOT TO SCALE

NOTE: TURBIDITY CURTAIN AS REQUIRED BY THE INSPECTOR TO PROTECT ACTIVE SHORELINE WORK AREA - LIMITED TO 400' AT ANY ONE TIME.

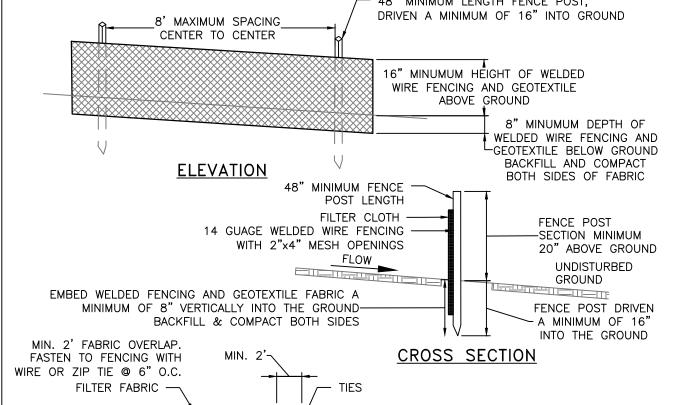


WOOD CHIP CONSTRUCTION ACCESS ROAD WITH DRAINAGE PIPE



- * MAXIMUM SLOPE LENGTH IS UNLIMITED ON THE HYDROLOGIC SOIL GROUP (HSG) "A" SOILS
- THE USE OF REINFORCED SILT FENCE MUST CONFORM TO THE DESIGN CONSTRAINTS LISTED ABOVE.
- 2. THE AREA DOWNGRADE OF THE REINFORCED SILT FENCE MUST BE UNDISTURBED GROUND.
- 3. REINFORCED SILT FENCE MUST BE PLACED ALONG THE CONTOUR.
- 4. REINFORCED SILT FENCE SHOULD BE USED WITH CAUTION IN AREAS WHERE ROCKY SOILS MAY PREVENT TRENCHING.

EXTEND BOTH ENDS OF REINFORCED SILT FENCE A MINIMUM OF FIVE (5) HORIZONTAL FEET UPSLOPE AND 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE EDGES. 48" MINIMUM LENGTH FENCE POST.



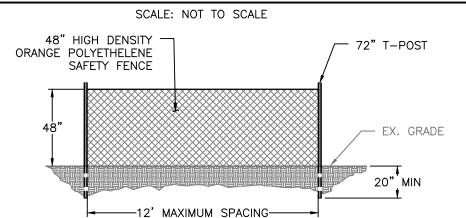
"U" OR "T" POST ATTACH WELDED WIRE FENCE W/ WIRE OR ZIP TIES <u>JOINING TWÓ ADJACENT FABRIC SECTIONS</u> TOP VIEW

- 1. METAL FENCE POST SHALL BE A MINIMUM OF 48 INCHES LONG, DRIVEN 16 INCHES MINIMUM INTO THE GROUND AND NO MORE THAN 8 FEET APART. POST SHALL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT. REINFOREMENT SHALL BE 14 GAUGE WELDED WIRE FENCING WITH 2 INCHX4INCH MESH OPENINGS.
- GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR ZIP TIES AT TOP AND MID SECTION. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND WIRE TIED OR ZIP TIED TO POST TO PREVENT SEDIMENT
- UPSLOPE SIDE OF THE FENCE POSTS WITH WIRE OR ZIP TIES AT TOP AND MIDSECTION. THE MANUFACTURER'S CERTIFICATION THAT THE FABRIC MEETS THE REQUIREMENTS IN SECTION H-1 MUST BE MADE AVAILABLE TO THE INSPECTION/ENFORCEMENT AUTHORITY.

3. USE A WOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, AND FASTENED TO THE

- 4. EXTEND BOTH ENDS OF REINFORCED SILT FENCE A MINIMUM OF FIVE (5) HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING
- 5. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN THE REINFORCED SILT FENCE FABRIC OR WHEN SEDIMENT REACHES 25% OF THE FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. OF UNDERMINING OCCURS, REINSTALL FENCE.

REINFORCED SILT FENCING DETAIL

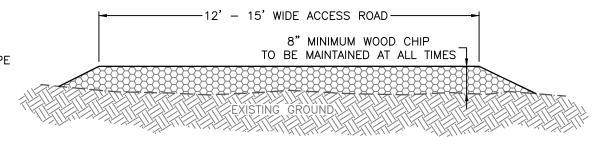


- WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE
- 2. T-POST SHALL BE SPACED A MAXIMUM OF 12' O/C. AVOID ROOT DAMAGE WHEN PLACING
- 3. THE HIGH VISIBILITY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS WITH WIRE 4. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE

OF THE FENCING MUST BE APPROVED.

HIGH VISIBILITY FENCE DETAIL

-12' - 15' WIDE ACCESS ROAD----



WOOD CHIP CONSTRUCTION ACCESS ROAD NOT TO SCALE

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. 21194, EXPIRATION DATE: 04/20/2026.

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL **AMENDMENTS**

A. SOIL PREPARATION

- 1. TEMPORARY STABILIZATION
- a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED. IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
- b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
- c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

- a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
- i. SOIL PH BETWEEN 6.0 AND 7.0.
- ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
- iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
- iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
- v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT
- MEET THE ABOVE CONDITIONS :. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED
- ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES. d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED
- BY THE RESULTS OF A SOIL TEST. e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE
- LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

- 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
- 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
- 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND
- 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING
- a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED. SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 11/2 INCHES IN DIAMETER.
- b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR
- c. TOPSOIL SUBSTITUTES OR AMENDMENTS. AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

6. TOPSOIL APPLICATION

- a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING
- b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
- 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
- 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
- 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
- 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
- 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.



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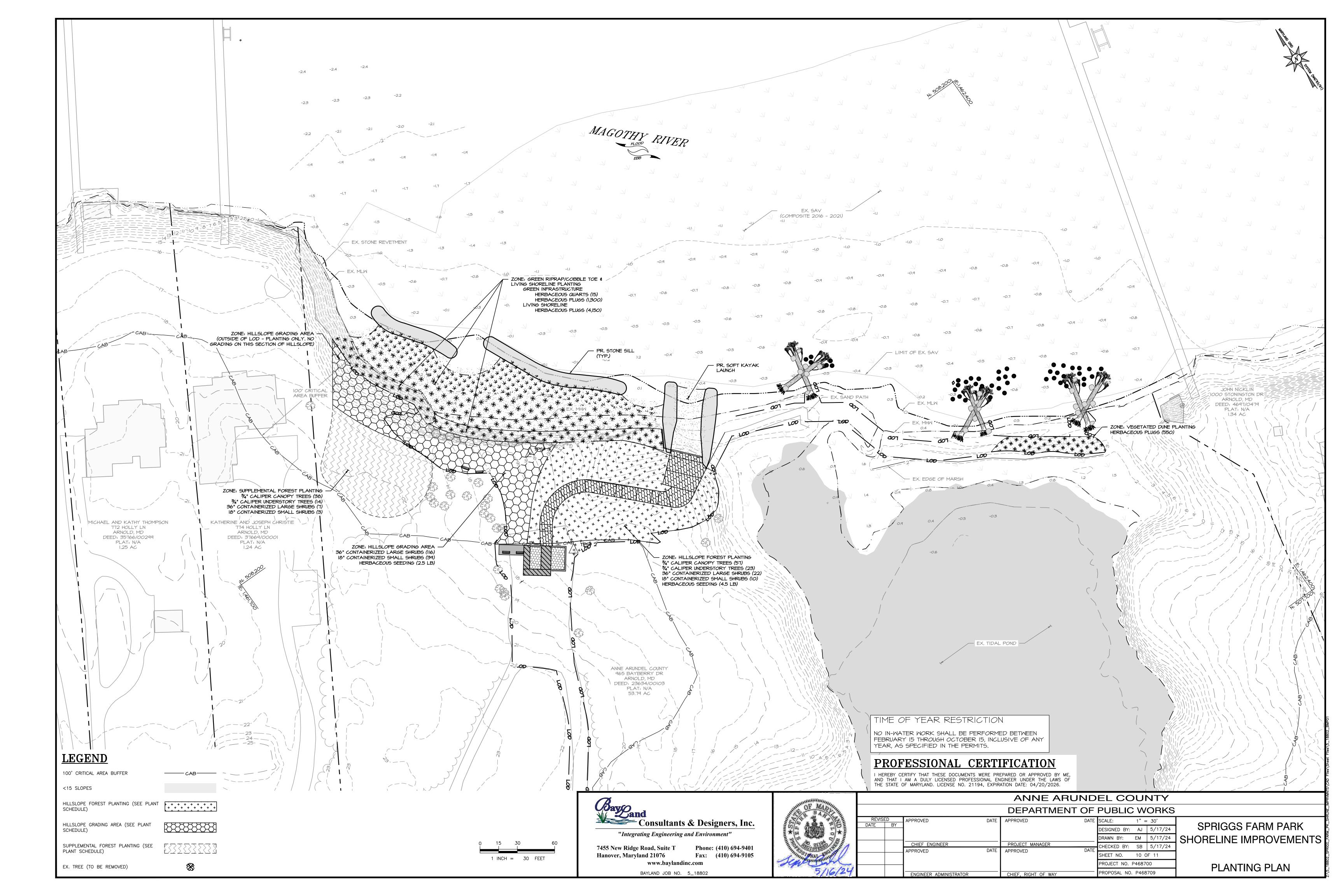


ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS APPROVED **APPROVED** DATE SCALE: AS NOTED DESIGNED BY: AJ 5/17/24 DRAWN BY: EM |5/17/24|CHIFF ENGINEER PROJECT MANAGER CHECKED BY: SB 5/17/24 PPROVED APPROVED SHEET NO. 9 OF 11 PROJECT NO. P468700 PROPOSAL NO. P468709 CHIEF, RIGHT OF WAY ENGINEER ADMINISTRATOR

SPRIGGS FARM PARK SHORELINE IMPROVEMENTS

EROSION SEDIMENT CONTROL NOTES & DETAILS

TURBIDITY CURTAIN TO BE INSTALLED IN 400' INTERVALS PRIOR TO AND MAINTAINED DURING SAND PLACEMENT AND ANY OTHER SEDIMENT CAUSING ACTIVITY. PHASED ACCORDINGLY. 2. NO EQUIPMENT OR MATERIAL STORAGE IS ALLOWED OUTSIDE OF THE LIMIT OF DISTURBANCE (LOD)



ZONE: HILLSLOPE FOREST PLANTING SCHEDULE - 8,179 SF

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	SPACING	QUANTITY	CREDIT TOTAL, SF
CANOPY TREES - 3/4" CALIPER		SF C	REDIT PER UNIT =	100	
ACER RUBRUM	RED MAPLE	FAC	NATURALIZED AT 10' OC	7	700
DIOSPYROS VIRGINIANA	COMMON PERSIMMON	FAC	NATURALIZED AT 10' OC	10	1,000
NYSSA SYLVATICA	BLACK GUM	FAC	NATURALIZED AT 10' OC	8	800
QUERCUS ALBA	WHITE OAK	FACU	NATURALIZED AT 10' OC	8	800
QUERCUS FALCATA	SOUTHERN RED OAK	FACU	NATURALIZED AT 10' OC	7	700
QUERCUS RUBRA	NORTHERN RED OAK	FACU	NATURALIZED AT 10' OC	10	1,000
SASSAFRAS ALBIDUM	SASSAFRAS	FACU	NATURALIZED AT 10' OC	7	700
		•	CAN	NOPY TREE CREDIT	58.4%
UNDERSTORY TREES - 3/4" CALIPER			SF C	REDIT PER UNIT =	75
CORNUS FLORIDA	FLOWERING DOGWOOD	FACU	NATURALIZED AT 8.5' OC	8	600
AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	FACU	NATURALIZED AT 8.5' OC	8	600
ILEX OPACA	AMERICAN HOLLY	FAC	NATURALIZED AT 8.5' OC	7	525
		•	UNDERS	TORY TREE CREDIT	17.7%
LARGE SHRUBS - 36" CONTAINERIZED					50
BACCHARIS HALIMIFOLIA	GROUNDSEL BUSH	FAC	NATURALIZED AT 7' OC	6	300
MORELLA PENNSYLVANICA	NORTHERN BAYBERRY	FAC	NATURALIZED AT 7' OC	6	300
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	FAC	NATURALIZED AT 7' OC	5	250
VIBURNUM PRUNIFOLIUM	BLACKHAW	FACU	NATURALIZED AT 7' OC	5	250
		•	LAF	RGE SHRUB CREDIT	11.3%
SMALL SHRUBS -18" CONTAINERIZED			SF C	REDIT PER UNIT =	25
ARONIA MELANOCARPA	BLACK CHOKEBERRY	FAC	NATURALIZED AT 5' OC	5	125
ILEX GLABRA	INKBERRY HOLLY	FAC	NATURALIZED AT 5' OC	5	125
		•	SMA	ALL SHRUB CREDIT	2.6%
SEEDING			,	SF CREDIT BASED OF	N AREA COVERED
HERBACEOUS					
ERNMX-172 MIX OR EQUIVALENT	NATIVE UPLAND SEED MIX	N/A	N/A	4.5 LB	980
COVER/NURSE CROP, SEE T	ABLE FOR RATE & DATES	N/A	N/A	SEE TABLE FOR RATES	0
			HE	RBACEOUS CREDIT	10.0%
			TOTAL:	112	9,755

ZONE: HILLSLOPE GRADING AREA PLANTING SCHEDULE - 6,926 SF TOTAL; 4,761 SF IN LOD

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	SPACING	QUANTITY	CREDIT TOTAL, SF
LARGE SHRUBS - 36" CONTAINERIZED			SF C	REDIT PER UNIT =	50
AMORPHA FRUTICOSA	FALSE INDIGO BUSH	FAC	NATURALIZED AT 7' OC	22	1,100
ARONIA ARBUTIFOLIA	RED CHOKEBERRY	FAC	NATURALIZED AT 7' OC	18	900
BACCHARIS HALIMIFOLIA	GROUNDSEL BUSH	FAC	NATURALIZED AT 7' OC	16	800
MORELLA PENNSYLVANICA	NORTHERN BAYBERRY	FAC	NATURALIZED AT 7' OC	16	800
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	FAC	NATURALIZED AT 7' OC	22	1,100
VIBURNUM PRUNIFOLIUM	BLACKHAW	FACU	NATURALIZED AT 7' OC	22	1,100
		•	LAF	RGE SHRUB CREDIT	50.5%
SMALL SHRUBS -18" CONTAINERIZED			SF C	REDIT PER UNIT =	25
ARONIA MELANOCARPA	BLACK CHOKEBERRY	FAC	NATURALIZED AT 5' OC	22	550
PRUNUS MARITIMA	BEACH PLUM	NL	NATURALIZED AT 5' OC	17	425
			SMA	ALL SHRUB CREDIT	13.0%
SEEDING			,	SF CREDIT BASED OF	N AREA COVERED
HERBACEOUS					
ERNMX-172 MIX OR EQUIVALENT	NATIVE UPLAND SEED MIX	N/A	N/A	2.5 LB	750
COVER/NURSE CROP, SEE TABLE FOR RATE & DATES		N/A	N/A	SEE TABLE FOR RATES	0
			HE	RBACEOUS CREDIT	10.0%
			TOTAL:	155	7,525

ZONE: GREEN RIPRAP/COBBLE TOE & LIVING SHORELINE PLANTING SCHEDULE - 12,141 SF TOTAL; 4,621 SF ABOVE EX. MHW

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	MAX SPACING/LOCATION	QUANTITY	CREDIT TOTAL, SF
	GREEN INF	RASTRUCTURE			
HERBACEOUS					
QUARTS				SF CREDIT PER UNIT	2
BAPTISIA TINCTORIA	YELLOW INDIGO	NL	RANDOM @ 3' O.C.	15	30
PLUGS				SF CREDIT BASED	ON AREA COVERED
OENOTHERA BIENNIS	COMMON EVENING PRIMROSE	FACU	RANDOM @ 18" O.C.	50	113
MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	FAC	RANDOM @ 18" O.C.	50	113
PANICUM VIRGATUM	SWITCHGRASS	FAC	RANDOM @ 18" O.C.	150	338
SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	FACW	RANDOM @ 18" O.C.	100	225
SPARTINA PATENS**	SALT MEADOW CORDGRASS	FACW	RANDOM @ 18" O.C.	950	2085
	LIVING	SHORELINE			
HERBACEOUS					
PLUGS SF CREDIT BASED ON A					
SPARTINA ALTERNIFLORA*	SMOOTH CORDGRASS	OBL ²	18" O.C. IN LOW MARSH	1650	0
SPARTINA PATENS**	SALT MEADOW CORDGRASS	FACW ¹	18" O.C. IN HIGH MARSH	2500	1,714
HERBACEOUS CREDIT					100.0%

ALL PLANTINGS AREA BELOW EX. MHW, NOT INCLUDED AS CRITICAL AREA MITIGATION ** ONLY AREA PLANTED ABOVE EX. MHW IS INCLUDED AS CRITICAL AREA MITIGATION ¹ PLANT IN HIGHER ELEVATIONS OF LIVING SHORELINE

² PLANT IN LOWER ELEVATIONS OF LIVING SHORELINE

ZONE: VEGETATED DUNE PLANTING SCHEDULE - 1,058 SF

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	MAX SPACING/LOCATION	QUANTITY*	CREDIT TOTAL, SF**
HERBACEOUS					
PLUGS			SF (CREDIT BASED ON A	AREA COVERED
OENOTHERA BIENNIS	COMMON EVENING PRIMROSE	FACU	RANDOM @ 18" O.C.	50	56
PANICUM VIRGATUM	SWITCHGRASS	FAC	RANDOM @ 18" O.C.	50	56
SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	FACW	RANDOM @ 18" O.C.	50	56
SPARTINA PATENS**	SALT MEADOW CORDGRASS	FACW	RANDOM @ 18" O.C.	400	892
HERBACEOUS CREDIT					
			TOTAL:	550	1,060

** ONLY AREA PLANTED ABOVE EX. MHW IS INCLUDED AS CRITICAL AREA MITIGATION

ZONE: MEADOW ESTABLISHMENT PLANTING SCHEDULE - 31,823 SF

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	SPACING	QUANTITY	CREDIT TOTAL, SF
SEEDING	SF CREDIT BASED ON				
HERBACEOUS					
ERNMX-172 MIX OR EQUIVALENT	NATIVE UPLAND SEED MIX	N/A	N/A	20 LB	0
COVER/NURSE CROP, SEE TABLE FOR RATE & DATES		N/A	N/A	SEE TABLE FOR RATES	0
HERBACEOUS CREDIT					0.0%
			TOTAL:	_	0

ZONE: SUPPLEMENTAL FOREST PLANTING SCHEDULE - 5,033 SF

BOTANICAL NAME/ TECHNICAL DESCRIPTION	COMMON NAME	INDICATOR STATUS	SPACING	QUANTITY	CREDIT TOTAL SF
CANOPY TREES - 3/4" CALIPER			SF CF	REDIT PER UNIT =	100
DIOSPYROS VIRGINIANA	COMMON PERSIMMON	FAC	NATURALIZED AT 10' OC	8	800
NYSSA SYLVATICA	BLACK GUM	FAC	NATURALIZED AT 10' OC	6	600
QUERCUS ALBA	WHITE OAK	FACU	NATURALIZED AT 10' OC	6	600
QUERCUS FALCATA	SOUTHERN RED OAK	FACU	NATURALIZED AT 10' OC	4	400
QUERCUS RUBRA	NORTHERN RED OAK	FACU	NATURALIZED AT 10' OC	8	800
SASSAFRAS ALBIDUM	SASSAFRAS	FACU	NATURALIZED AT 10' OC	6	600
		•	CAN	OPY TREE CREDIT	72.0%
UNDERSTORY TREES - 3/4" CALIPER			SF CF	REDIT PER UNIT =	75
CORNUS FLORIDA	FLOWERING DOGWOOD	FACU	NATURALIZED AT 8.5' OC	5	375
AMELANCHIER ARBOREA*	DOWNY SERVICEBERRY	FACU	NATURALIZED AT 8.5' OC	4	300
ILEX OPACA	AMERICAN HOLLY	FAC	NATURALIZED AT 8.5' OC	5	375
		•	UNDERST	ORY TREE CREDIT	19.9%
LARGE SHRUBS - 36" CONTAINERIZED					50
MORELLA PENNSYLVANICA	NORTHERN BAYBERRY	FAC	NATURALIZED AT 7' OC	2	100
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	FAC	NATURALIZED AT 7' OC	2	100
VIBURNUM PRUNIFOLIUM	BLACKHAW	FACU	NATURALIZED AT 7' OC	3	150
			LAR	GE SHRUB CREDIT	6.6%
SMALL SHRUBS -18" CONTAINERIZED			SF CF	REDIT PER UNIT =	25
ARONIA MELANOCARPA	BLACK CHOKEBERRY	FAC	NATURALIZED AT 5' OC	3	75
			SMA	LL SHRUB CREDIT	1.4%
			TOTAL:	62	5,275

SEQUENCE OF IMPLEMENTATION

- 1. CONTRACTOR SHALL ARRANGE PRE-PLANTING MEETINGS WITH COUNTY PLANNING & ZONING DEPARTMENT STAFF AT LEAST 5 DAYS IN ADVANCE OF DISTURBANCES OF ANY LAND ON SITE.
- 2. REMOVE\ELIMINATE TURF GRASS AND TILL AREAS UNFORESTED AREAS TO BE PLANTED TO A DEPTH OF 12 INCHES.
- 3. USE TREE SHELTER TUBES WITH MESH TOPS FOR SEEDLINGS PLANTING TO REDUCE ANIMAL DAMAGE.
- 4. MULCH AROUND LANDSCAPING STOCK TO REDUCE COMPETITION FROM INVASIVE SPECIES
- 5. MONITOR THE PLANTINGS OFTEN TO REDUCE PLANT STRESS SUCH AS WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, AND DISEASE.
- 6. THE CONTRACTOR SHALL OBSERVE: MINIMAL SITE PREPARATION/DISTURBANCE, PROTECTION OF PLANTS AFTER DELIVERY UNTIL THEY ARE PLANTED, PROPER DIGGING AND HANDLING OF PLANT MATERIALS, PROPER EXCAVATION OF PLANTING AREAS, PLANTING OPERATIONS, STABILIZATION OF THE PLANTING AREAS WITH MULCH AFTER PLANTING, STAKING AND PRUNING, AND INSTALLATION OF

BUFFER MANAGEMENT & PROTECTION STANDARDS

- 1. REMOVAL OF VEGETATION WITHIN THE 100-FOOT BUFFER AND EXPANDED BUFFER IS PROHIBITED, CUTTING AND CLEARING OF NATURAL VEGETATION WITHIN THE BUFFER AND EXPANDED BUFFER SHALL BE AS SHOWN ON THIS BUFFER MANAGEMENT PLAN AS SUBMITTED AND OR AS SUBSEQUENTLY AMENDED. SUBJECT TO APPROVAL BY THE COUNTY PLANNING AND ZONING OFFICE, ADDITIONAL INFORMATION CAN BE OBTAINED BY CONTACTING THE PLANNING AND ZONING OFFICE AT 2664 RIVA ROAD, ANNAPOLIS MARYLAND 21401.
- 2. THE BUFFER ON THIS PARCEL SHALL BE PLANTED IN ACCORDANCE WITH THIS PLAN. ALL EXISTING AND PLANTED VEGETATION WITHIN THE BUFFER SHALL BE MAINTAINED AND SURVIVAL OF PLANTED AND NATURALLY OCCURRING REGENERATED AREAS OF THE BUFFER SHALL BE AS
- 3. NEW LAWN AREAS SHALL NOT BE CREATED WITHIN THE BUFFER OR EXPANDED BUFFER UNLESS SPECIFICALLY ADDRESSED IN THIS BUFFER MANAGEMENT PLAN.
- 4. THE CONTRACTOR SHALL OBSERVE MINIMAL SITE PREPARATION/DISTURBANCE, PROTECTION, OF PLANTS AFTER DELIVERY UNTIL THEY ARE PLANTED, PROPER DIGGING AND HANDLING OF PLANT MATERIALS, PROPER EXCAVATION OF PLANTING AREAS, PLANTING OPERATIONS, STABILIZATION OF THE PLANTING AREAS WITH MULCH AFTER PLANTING, STAKING, PRUNING, AND INSTALLATION OF BUFFER PROTECTION SIGNAGE.

LANDSCAPE NOTES

5465

TOTAL:

- 1. ALL PLANT SPECIES SHALL BE NATIVE TO THE CHESAPEAKE AND ATLANTIC COASTAL BAYS REGION BASED ON THE U.S. FISH AND WILDLIFE SERVICE PUBLICATION, NATIVE PLANTS FOR WILDLIFE HABITAT AND CONSERVATION LANDSCAPING.
- 2. SPECIES CLASSIFICATION (CANOPY TREE, UNDERSTORY TREE, ETC.) IS IN ACCORDANCE WITH MATURE HEIGHTS AS SET FORTH IN THE U.S. FISH AND WILDLIFE SERVICE PUBLICATION, NATIVE PLANTS FOR WILDLIFE HABITAT AND CONSERVATION LANDSCAPING.
- 3. SPECIES HAVE BEEN SELECTED BASED ON AN ANALYSIS OF SURROUNDING NATIVE FOREST AND DEVELOPED WOODLAND COVER.
- 4. UNLESS SPECIFIC PLANTING LOCATIONS ARE SHOWN, ALL WOODY PLANTINGS SHALL BE INSTALLED IN A NATURALIZED LAYOUT TO SIMULATE NATURAL PATTERNS OF DISTRIBUTION AND GROWTH.
- 5. THE QUANTITY OF ANY SINGLE SPECIES DOES NOT EXCEED 20 PERCENT OF THE OVERALL PLANTING.

MONITORING & SURVIVAL REQUIREMENTS

- 1. PLANTINGS SHALL BE MONITORED TWICE A YEAR FOR A PERIOD OF TWO YEARS AFTER PLANT INSTALLATION
- 2. MONITORING SHALL BE PERFORMED ONCE DURING APRIL/MAY AND ONCE AUGUST/SEPTEMBER DURING EACH MONITORING YEAR.
- 3. MONITORING SHALL INCLUDE AN ASSESSMENT OF PLANT SURVIVAL, GENERAL CONDITION OF PLANTED VEGETATION, INVASIVE SPECIES PRESENCE EVIDENCE OF PESTS OR PREDATION, AND RECOMMENDATIONS TO IMPROVE PLANT CONDITION.
- 4. AT THE END OF THE 2-YEAR MONITORING PERIOD, PLANT SURVIVAL SHALL BE 100% IN ACCORDANCE WITH ANNE ARUNDEL COUNTY CODE AND COMAR 27.01.09.01-20. ANY SURVIVAL DEFICIENCY SHALL BE REQUIRED TO BE REPLACED TO MEET THE MINIMUM REQUIREMENT.
- 5. THE REQUIREMENT FOR REPLACEMENT PLANTINGS MAY EXTEND THE MONITORING PERIOD BEYOND 2-YEARS.

MAINTENANCE REQUIREMENTS

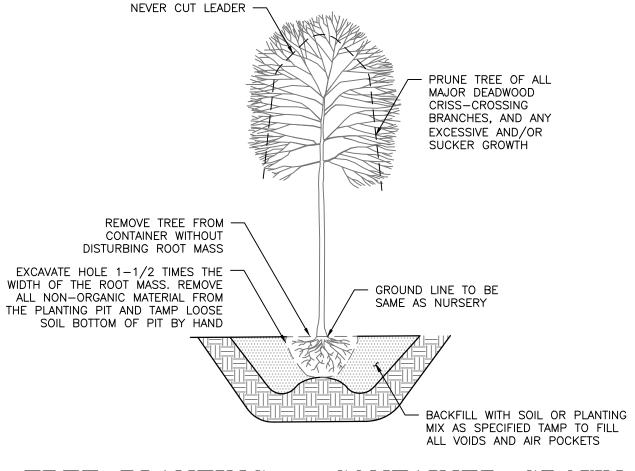
- 1. CONTRACTOR SHALL MONITOR PLANTINGS OFTEN TO REDUCE STRESS SUCH AS WATER AND/OR NUTRIENT DEFICIENCY, INVASIVE SPECIES, PEST
- 2. WATER ONLY AS NECESSARY BUT AT LEAST ONCE EVERY 5 DAYS WITHOUT RAINFALL FROM MAY THROUGH SEPTEMBER FOR THE FIRST GROWING SEASON AFTER PLANTING
- 3. USE OF LOW NITROGEN AND SLOW RELEASE FERTILIZER MAY BE UTILIZED. APPLICATION SHALL BE COMPLETED IN EARLY SPRING OR LATE
- 4. INSPECTIONS FOR SURVIVAL SHALL BE PERFORMED IN ACCORDANCE WITH MONITORING AND SURVIVAL REQUIREMENTS.
- 5. DEER PROTECTION SHALL BE REMOVED AT THE CLOSE OF THE REQUIRED MONITORING PERIOD.

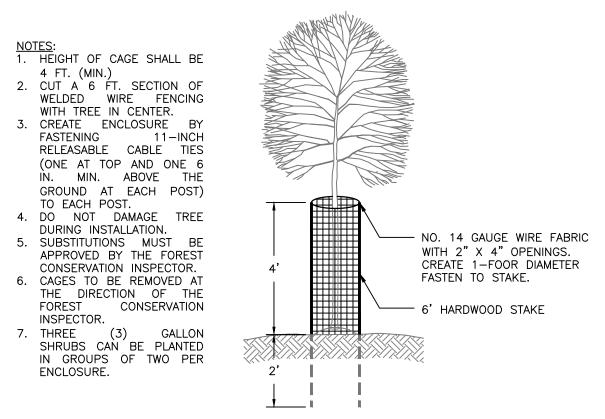
NATIVE UPLAND SEED MIX COMPOSITION

% COMPOSITION	BOTANICAL NAME	COMMON NAME
48.00%	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
28.60%	ELYMUS VIRGINICUS	VIRGINIA WILDRYE
4.30%	RUDBECKIA HIRTA	BLACKEYED SUSAN
2.90%	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED
2.10%	CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
2.10%	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS
2.10%	LESPEDEZA VIRGINICA	SLENDER LESPEDEZA
2.10%	SENNA HEBECARPA	WILD SENNA
1.80%	PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE
1.10%	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER
1.10%	ASTER PILOSUS	HEATH ASTER
0.70%	CHAMAECRISTA NICTITANS	SENSITIVE PEA
0.60%	MONARDA FISTULOSA	WILD BERGAMOT
0.60%	PYCNANTHEMUM TENUIFOLIUM	NARROWLEAF MOUNTAINMINT
0.50%	SOLIDAGO BICOLOR	WHITE GOLDENROD
0.50%	SOLIDAGO NEMORALIS	GRAY GOLDENROD
0.40%	PENSTEMON LAEVIGATUS	APPALACHIAN BEARDTONGUE
0.30%	PYCNANTHEMUM INCANUM	HOARY MOUNTAINMINT
0.20%	PENSTEMON HIRSUTUS	HAIRY BEARDTONGUE

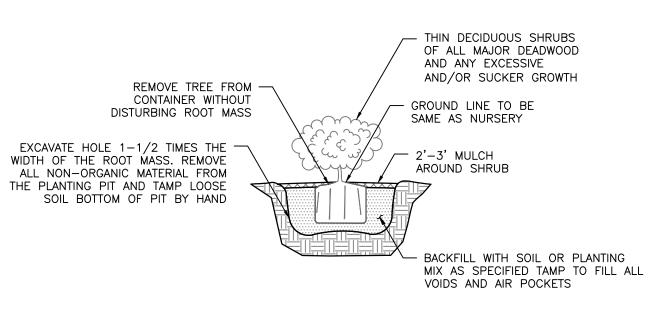
COVER/NURSE CROP SEEDING TABLE

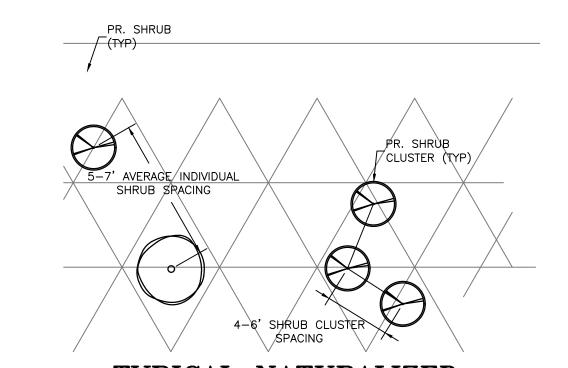
SEEDING RATE	BOTANICAL NAME	COMMON NAME	SEEDING DATE
30 LB/AC	SECALE CEREAL	CEREAL RYE	11/1-2/28
30 LB/AC	AVENA SATIVA	GRAIN OATS	3/1-4/30
10 LB/AC	SETARIA ITALICA	FOXTAIL MILLET	5/1-8/31
ZONE:	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	9/1-10/31





TREE PLANTING - CONTAINER GROWN TREE/SHRUB PLANTING DEER PROTECTION

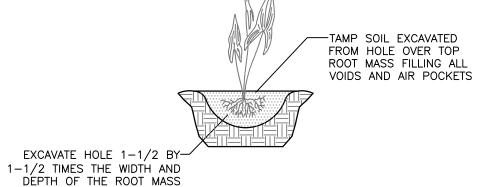




SHRUB PLANTING - CONTAINER GROWN

SCALE: NOT TO SCALE

TYPICAL NATURALIZED SHRUB PLANTING DETAIL NOT TO SCALE

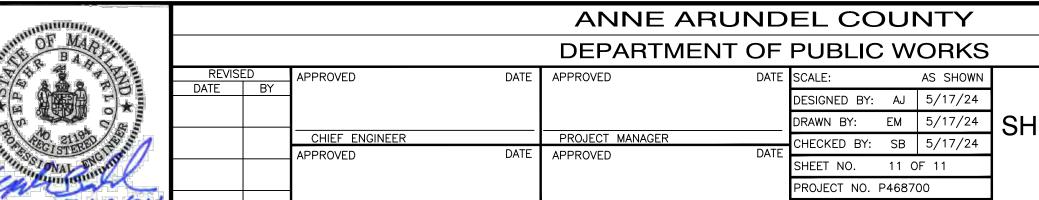


PROPOSAL NO. P468709

HERBACEOUS PLANTING - PLUG

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. 21194, EXPIRATION DATE: 04/20/2026.



CHIEF, RIGHT OF WAY

SPRIGGS FARM PARK SHORELINE IMPROVEMENTS

PLANTING PLAN

Consultants & Designers, Inc. "Integrating Engineering and Environment"

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BAYLAND JOB NO. 5 18802

ENGINEER ADMINISTRATOR