

BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL 811



JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT

RESILIENCE AUTHORITY

ANNE ARUNDEL COUNTY, MARYLAND

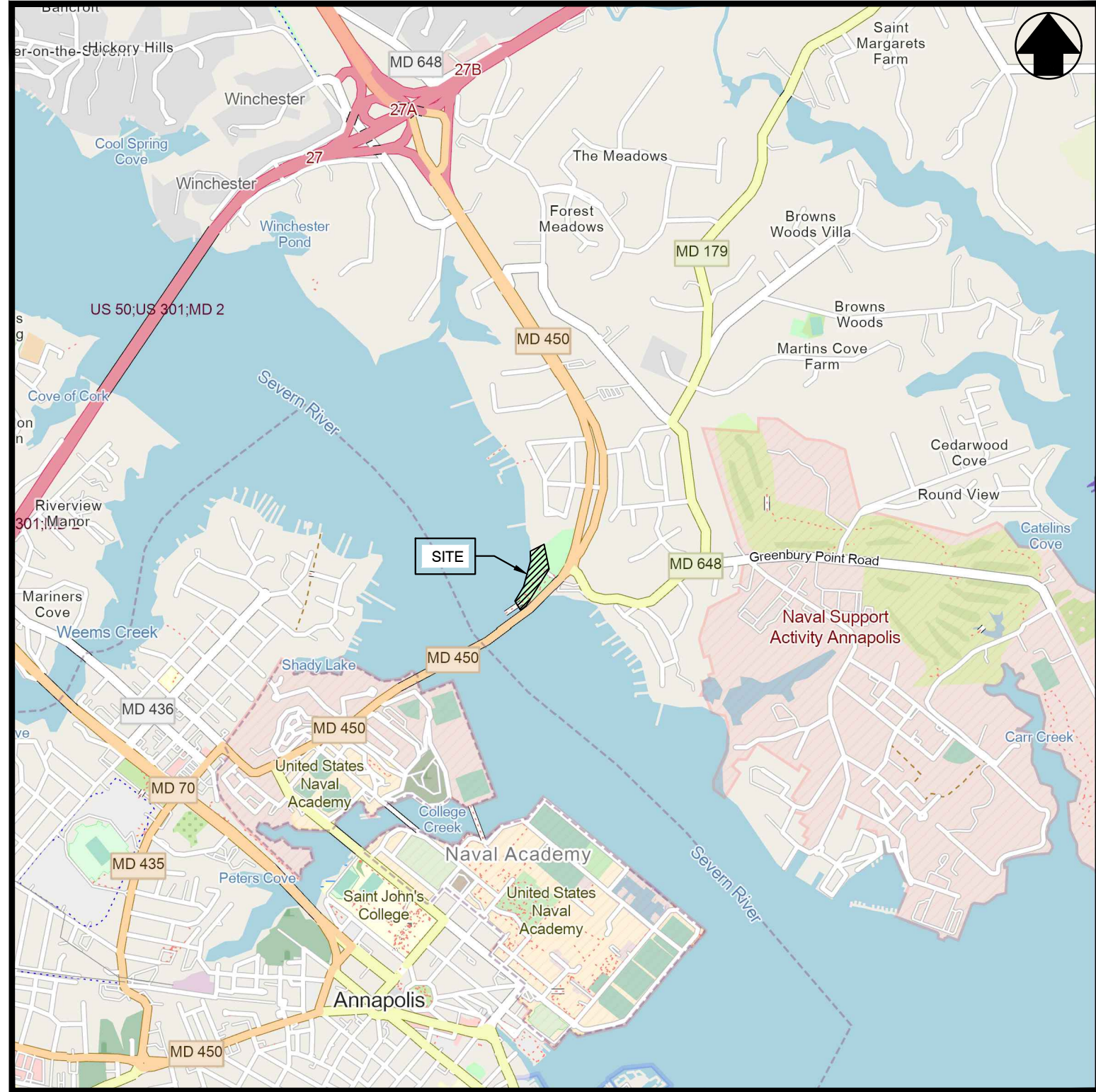
JULY 2026

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY STANDARD SPECIFICATIONS OR DETAILS FOR CONSTRUCTION UNLESS OTHERWISE NOTED. THE STATE HIGHWAY ADMINISTRATION'S HIGHWAY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND THE BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES SHALL BE USED IF NO ANNE ARUNDEL COUNTY STANDARD OR DETAIL EXIST.
- THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO THEIR SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S OWN EXPENSE.
- 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.
- MECHANICAL EXCAVATION SHALL NOT BE CONDUCTED WITHIN 3 FEET HORIZONTALLY OR WITHIN 2 FEET VERTICALLY OF KNOWN UTILITY LOCATIONS. HAND OR SOFT DIGGING SHALL BE DONE WITHIN THESE LIMITS. UNDERGROUND UTILITIES, ONCE UNCOVERED, SHALL BE PROTECTED FROM BEING STRUCK BY EQUIPMENT.
- 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 THEIR RESPONSIBILITY TO COMPLETE SUCH WORK.
- 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 TO REMAIN WITHIN THE LIMIT OF DISTURBANCE THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED.
- ALL FILL AREAS SHALL BE CLEANED OF ALL VEGETATION AND DEBRIS, SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES PRIOR TO THE PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN CONTROLLED LIFTS WITH A MAXIMUM THICKNESS OF 8" PRIOR TO COMPACTION THAT IS CONTINUOUS OVER THE ENTIRE AREA OF FILL. EACH LAYER OF FILL SHALL BE COMPACTED WITH THE MINIMUM NUMBER OF PASSES NECESSARY TO PRODUCE A FULL ASYMPTOTIC COMPACTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING INCLUDING CONCRETE, FLOWABLE FILL, HOT MIX ASPHALT AND FILL COMPACTION. ALL MATERIALS TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL BE COMPENSATED FOR AS PART OF THE APPROPRIATE PAY ITEM.
- SEE STANDARD GEOTECHNICAL NOTES FOR FILL COMPACTION TESTING REQUIREMENTS.
- ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN:
 - END OF THE WORK DAY FOR AREAS WITHIN WATERWAYS.
 - THREE (3) CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS.
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS.
 - ALL STABILIZATION MUST BE IN ACCORDANCE WITH MARYLAND DEPARTMENT OF AGRICULTURE (MDA) FERTILIZER LAW.
- ALL DISTURBED AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH 100% BIODEGRADABLE SOIL STABILIZATION MATING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE APPROVED SEDIMENT AND EROSION CONTROL PLANS.
- ALL PERMANENTLY STABILIZED AREAS SHALL INCLUDE A MINIMUM OF 4" OF TOPSOIL PER THE 2011 MDE SPECIFICATIONS.
- ALL STAKING, RESTAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 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.
- ALL ROADS SHALL BE CLEANED AND CLEARED BY THE END OF EACH DAY. ANY MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEEP BEFORE THE END OF SHIFT EACH DAY.
- CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT IS NOT LIMITED TO GRASS AREAS, ROADS, PAVED AREAS, ETC...

LEGEND

TRAVERSE POINT	TP# 2	PR. MAJOR CONTOUR	5
EX. SPOT SHOT		PR. MINOR CONTOUR	1
EX. PROPERTY LINE/RIGHT-OF-WAY		PR. ODD CONTOUR	5.5
EX. MAJOR CONTOUR	5	PR. BANK FULL	BF
EX. MINOR CONTOUR	1	PR. CONSTRUCTION E	
EX. EDGE OF WATER		PR. LIMIT OF CLEARING	
EX. ROAD		PR. CHAINLINK FENCE	X
EX. TREELINE		PR. DRAINAGE AREA	
EX. TOP OF BANK	TOB	PR. BORING	B
EX. BOTTOM OF BANK	BOB	PR. LIMIT OF DISTURBANCE	LOD
EX. CHAINLINK FENCE	X	PR. LIMIT OF DISTURBANCE AND HIGH VISIBILITY FENCE	LOD HVF
EX. WOOD FENCE		PR. SUPER SILT FENCE	SF
EX. THALWEG		PR. SILT FENCE	SF
EX. 100-YR FEMA FLOODPLAIN		PR. REINFORCED SILT FENCE	RSF
EX. DRAINAGE AREA		PR. HIGH VISIBILITY FENCE	HVF
EX. 15' NON-TIDAL WETLAND BUFFER	W15 AsE	PR. STABILIZED CONSTRUCTION ENTRANCE	
EX. SOIL		PR. FILTER BAG	
EX. NON-TIDAL WETLANDS		PR. MOUNTABLE BERM	
EX. SEWER & MANHOLE		PR. TEMPORARY ACCESS ROAD	
EX. STORM DRAIN, INLET & MANHOLE		TURBIDITY CURTAIN	TC
EX. WATER & VALVE		PR. PARK BENCH	
EX. TREE		PR. TREE	
EX. TREE TO BE REMOVED		PR. REEF HABITAT BALL	
EX. TREE TO REMAIN		PR. BOARDWALK	
EX. SHRUB		PR. PAVEMENT	
EX. LIGHT POLE		PR. SAND FILL	
EX. UTILITY POLE		PR. SHINGLE MIX	
EX. FIRE HYDRANT			
EX. SIGN			

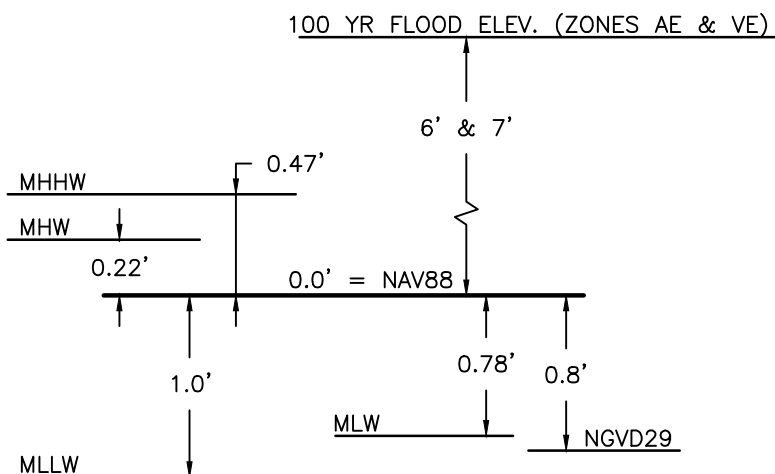


LOCATION MAP

SCALE: 1"=2000'

PROJECT INFORMATION

- OWNER/DEVELOPER: AACO DEPT. RECREATION & PARKS
CONTACT: 1 HARRY S TRUMAN PKWY
ANNAPOLIS MD, 21401
PHONE: 410-222-7300
- OWNER/DEVELOPER INFORMATION: 7455 NEW RIDGE ROAD, SUITE T
HANOVER, MARYLAND 21076
PH: 410-694-9401
- ENGINEER: BAYLAND CONSULTANTS AND DESIGNERS, INC.
- ENGINEER INFORMATION: TAX MAP # 46
PARCELS # 14 & 300
TBD
03
OS (OPEN SPACE)
7.9 ACRES
SEVERN RIVER (02131002)
##-XX-####
XX ACRES
- TAX MAP:
- PARCEL:
- AA COUNTY GRADING PERMIT NO:
- DISTRICT:
- ZONING:
- PROPERTY AREA:
- WATERSHED:
- MDE TIDAL WETLANDS PERMIT NO:
- SITE AREA LOCATED WITHIN CRITICAL AREA:



DATUM CONVERSIONS

NOTE:
DATUM COMPARISON BASED ON NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) VDATUM FROM SITE LOCATION (LATITUDE) 38.995651, (LONGITUDE) -76.484970.

SITE ANALYSIS

- TOTAL SITE AREA: 7.9 ACRES
1.1. PROPOSED DISTURBED AREA: ## ACRES
- TOTAL AREA TO BE STABILIZED: ### ACRES
2.1. TOTAL EX. IMP. AREA: ### ACRES
2.2. TOTAL EX. IMP. AREA TO REMAIN: ### ACRES
2.3. TOTAL PR. IMPERVIOUS AREA: ### ACRES
2.4. TOTAL TO BE STABILIZED WITH VEGETATION: ### ACRES
- PROPOSED IMPERVIOUS AREA: ## ACRES
- ESTIMATED CUT: 0 CY
- ESTIMATED FILL: TBD CY

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

ADA COMPLIANCE NOTE

IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-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 PF1 - PF29

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: 04/20/2028.



Consultants & Designers, Inc.

"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
www.baylandinc.com

BAYLAND JOB NO. 8_57401

CONSULTANT'S CERTIFICATION

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. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER / DEVELOPER

MD P.E. LICENSE NO.: 21194
NAME: SEPEHR BAHARLOU
FIRM NAME: BAYLAND CONSULTANTS & DESIGNERS, INC.
ADDRESS: 7455 NEW RIDGE ROAD, SUITE T
CITY: HANOVER STATE: MD ZIP CODE: 21076

GENERAL SITE NOTES

- MEAN TIDAL RANGE IS APPROXIMATELY 1 FOOT BASED ON VDATUM.
- HYDROGRAPHIC AND TOPOGRAPHIC SURVEYS WERE PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. ON OCTOBER 15, 2025.
- HORIZONTAL CONTROL IS BASED ON THE MARYLAND COORDINATE SYSTEM (NAD83/1991).
- SOUNDINGS ARE IN FEET AND REFER TO THE LOCAL MEAN LOW WATER DATUM (MLW).
- 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 10/15/2025.
- CONTOURS SHOWN OUTSIDE OF LIMIT OF WORK ARE BASED ON 2023 COUNTY LIDAR TOPOGRAPHY. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY PLANIMETRICS.
- PROPERTY LINES SHOWN ARE BASED ON ANNE ARUNDEL COUNTY 2025 CADASTRAL DATA.
- THE PROJECT SITE IS WITHIN FEMA FLOODPLAIN LIMITS (ZONE VE - 7 FT NAVD88, AND ZONE AE - 6 FT NAVD88) SHOWN ON FEMA FIRMS 24003C0251F.
- THE PROJECT SITE IS LOCATED PARTIALLY WITHIN A RESOURCE CONSERVATION AREA (RCA) AND PARTIALLY WITHIN A LIMITED DEVELOPMENT AREA OF THE CHESAPEAKE BAY CRITICAL AREA.
- THE PROJECT IS WITHIN THE 100' CRITICAL AREA BUFFER.
- MARYLAND WETLANDS LICENSE NO. XX-WL-XXXX, U.S. ARMY CORPS OF ENGINEERS PERMIT - MARYLAND STATE PROGRAMMATIC GENERAL PERMIT (TRACKING NO. NAB-20XX-XXXX).
- ANNE ARUNDEL SOIL CONSERVATION DISTRICT (AASCD) NO. TBD; G.P. NO. TBD.

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2	KEY SHEET
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4	EXISTING CONDITIONS & DEMOLITION PLAN
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7	CROSS-SECTIONS
8	RIFFLE WEIR DETAILS
9	BOARDWALK DETAILS
10	BOARDWALK DETAILS
11	BOARDWALK PLAZA DETAILS
12	PIER DETAILS
13	PIER DETAILS
14	FISHING PLATFORM DETAILS
15	PATH AND PARKING LOT DETAILS
16	PLANTING PLAN & DETAILS
17	PLANTING DETAILS

30% DESIGN

JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT COVER SHEET

REVISIONS			DESIGNED BY:	JH	7/29/26
DATE	BY	DESCRIPTION	DRAWN BY:	JH	7/29/26
			CHECKED BY:	AJ	7/29/26
			SHEET NO.		1 OF 17

RESILIENCE AUTHORITY
Annapolis and Anne Arundel County

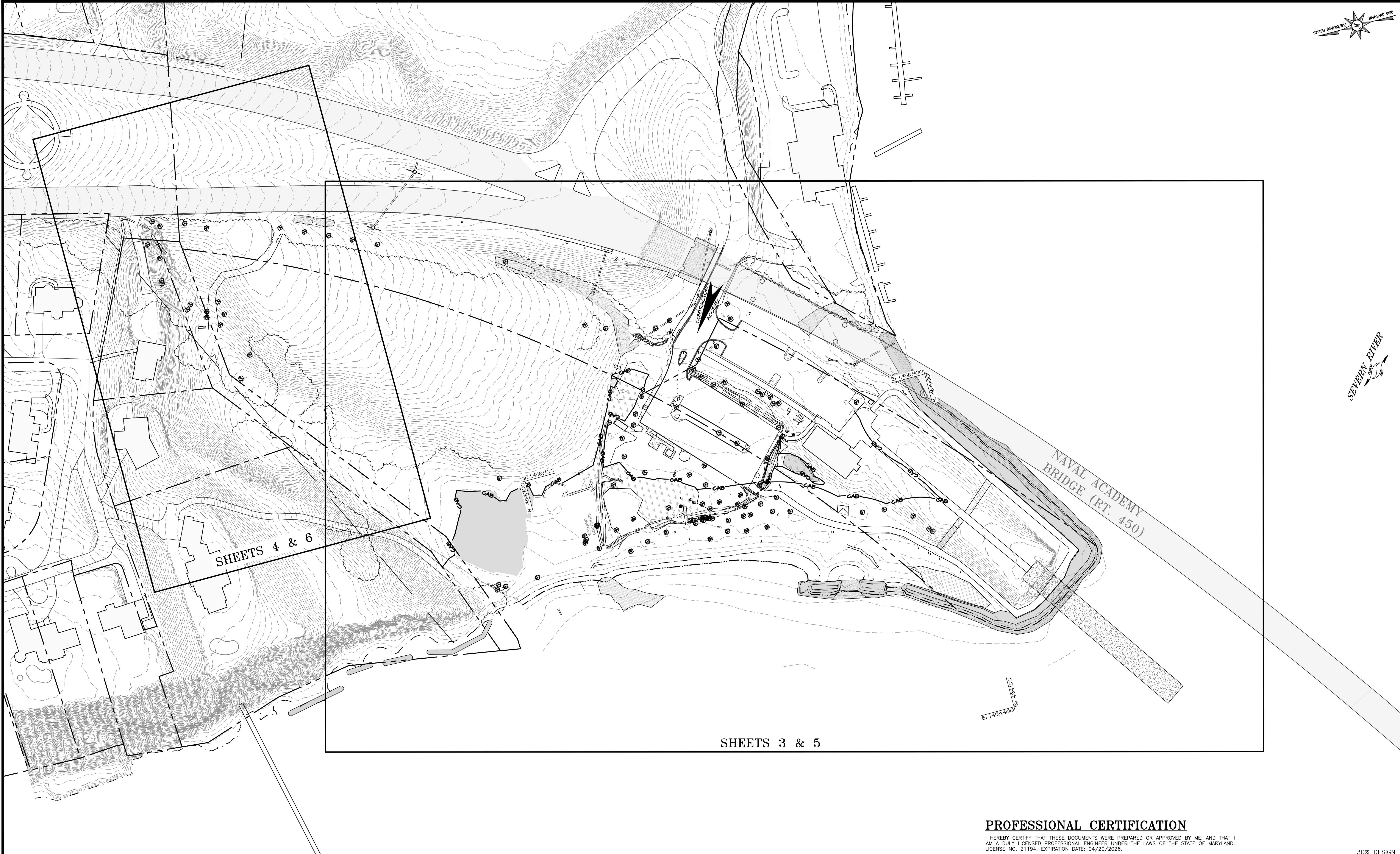


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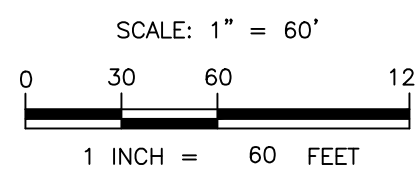
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- NOTES:**
1. MEAN TIDAL RANGE IS APPROXIMATELY 1 FOOT BASED ON VDATUM.
 2. TOPOGRAPHIC SURVEY WERE PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. ON OCTOBER 17, 2025 AND APRIL 5, 2026. SURVEYS PERFORMED WITH REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS).
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 6. BASEMAP COMPILED FROM ANNE ARUNDEL COUNTY PLANIMETRICS.
 7. PROPERTY LINES SHOWN ARE BASED ON ANNE ARUNDEL COUNTY 2025 CADASTRAL DATA.



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JONAS & ANNE CATHARINE GREEN PARK

COASTAL RESILIENCY PROJECT

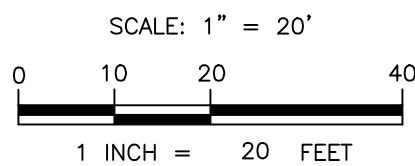
KEY SHEET

REVISIONS		
DATE	BY	DESCRIPTION

DESIGNED BY: SB,JH	7/29/26
DRAWN BY: JH	7/29/26
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SHEET NO.	2 OF 17



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JONAS & ANNE CATHARINE GREEN PARK
COASTAL RESILIENCY PROJECT
EXISTING CONDITIONS & DEMOLITION PLAN

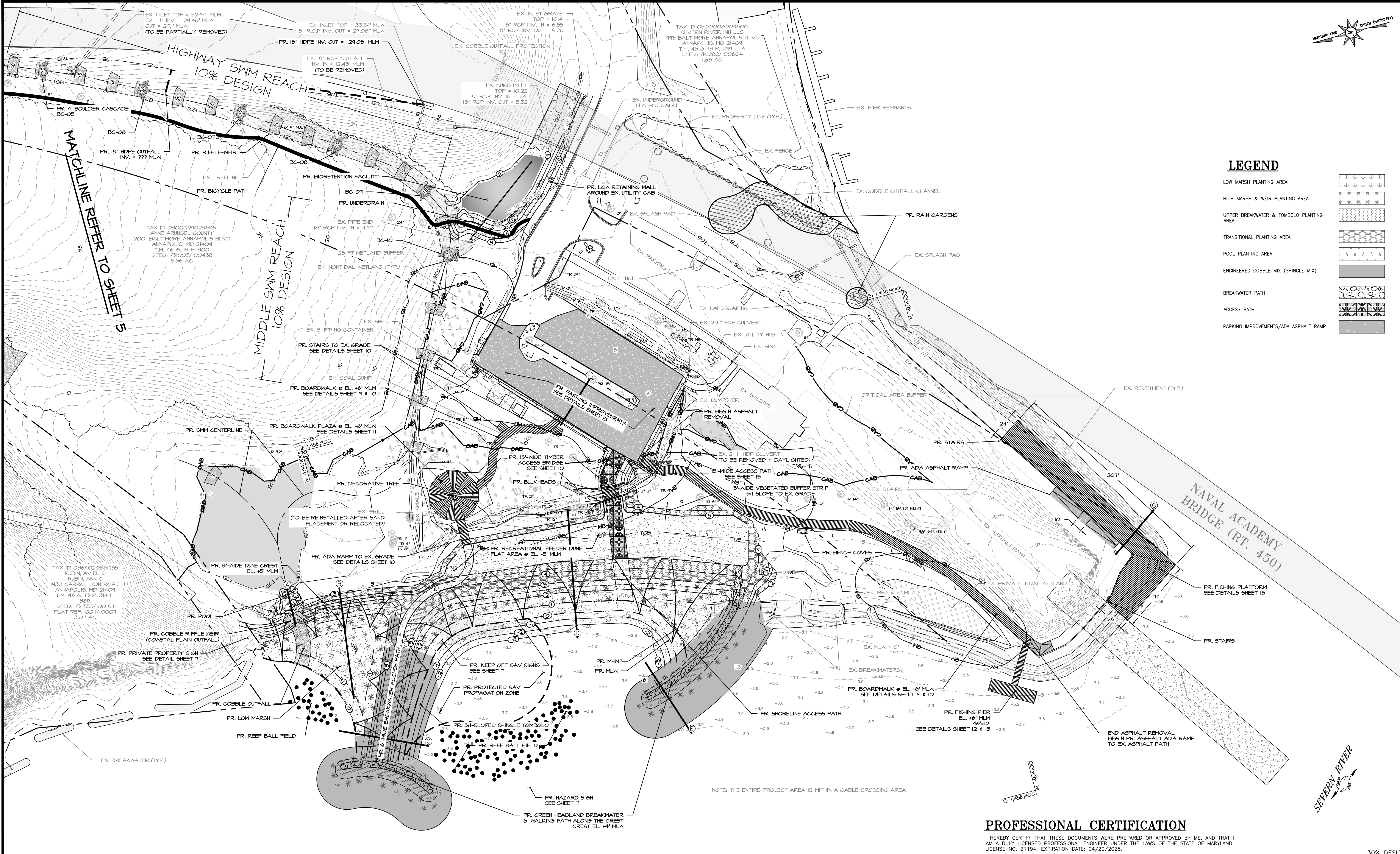
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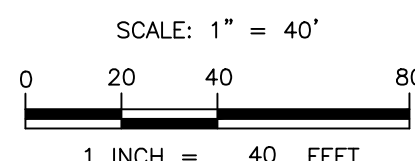
SHEET NO. 4 OF 17



LEGEND

- LOW MARSH PLANTING AREA
- HIGH MARSH & WEIR PLANTING AREA
- UPPER BREAKWATER & TOMBOLO PLANTING AREA
- TRANSITIONAL PLANTING AREA
- POOL PLANTING AREA
- ENGINEERED COBBLE MIX (SHINGLE MIX)
- BREAKWATER PATH
- ACCESS PATH
- PARKING IMPROVEMENTS/ADA ASPHALT RAMP

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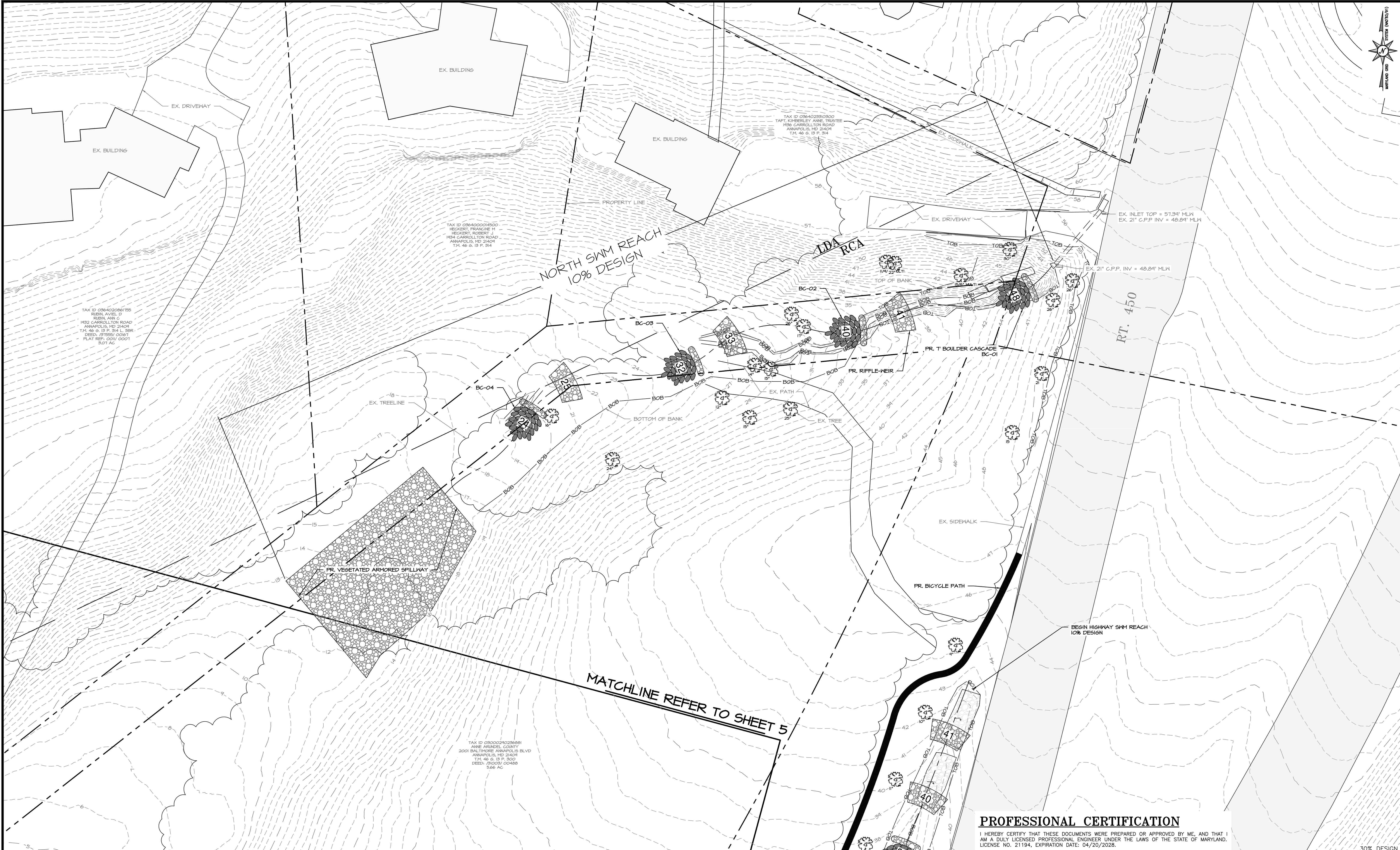
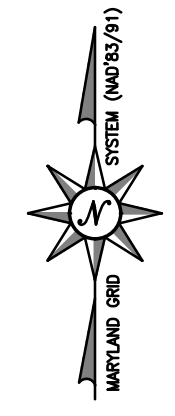
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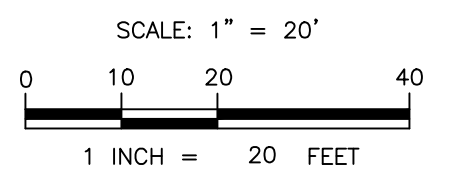


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ANNAPOLIS, MD 21401
T.M. 46 & 13 P. 314 L. 50R
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PLAT REF. 001/0007
5.07 AC

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HECKERT, ROBERT J
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TART, KIMBERLEY ANNE, TRUSTEE
1836 CARROLLTON ROAD
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2001 BALTIMORE ANNAPOLIS BLVD
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T.M. 46 & 13 P. 502
DEED: 01003/00488
5.66 AC



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JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT CROSS-SECTIONS			
REVISONS			DESIGNED BY: JH 7/29/26
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			SHEET NO. 7 OF 17

RESILIENCE
AUTHORITY

Annapolis and Anne Arundel County



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SPSC RIFFLE-WEIR CONSTRUCTION SPECIFICATIONS

MATERIALS

THE CONTRACTOR WILL NOT BE GRANTED AN EXTENSION OF EXTRA TIME OR EXTRA COMPENSATION DUE TO DELAY CAUSED BY SAMPLING, TESTING, APPROVAL OR DISAPPROVAL OF THE MATERIALS UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS. THE MATERIAL SHALL BE AS SPECIFIED ON THE RIFFLE-WEIR ROCK SIZE TABLE AND HEREIN. IF SUFFICIENT MATERIAL IS NOT AVAILABLE FROM THE SITE, THE CONTRACTOR SHALL OBTAIN MATERIAL FROM A QUARRY AND PROVIDE A CERTIFICATE VERIFYING THAT THE STONE MEETS THE SPECIFIED REQUIREMENTS AND/OR A SAMPLE OF STONE TO THE COUNTY FOR APPROVAL PRIOR TO INSTALLATION. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SOURCE OF SUPPLY IN A TIMELY FASHION, SO THAT THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF ALL MATERIALS AND THAT WORK SHALL NOT BE UNNECESSARILY DELAYED DUE TO INSUFFICIENT SUPPLY.

1. 9" STONES

9" STONES SHALL BE AS SPECIFIED ON THE RIFFLE-WEIR ROCK SIZE TABLE. THESE STONES SHALL CONSIST OF SANDSTONE OR NATURALLY OCCURRING SILICA-BASED STONE (E.G., QUARTZ OR QUARTZITE) AND SHALL BE YELLOW, RED, BROWN, PURPLE, OR OTHER NATURAL EARTH TONES IN COLOR. IN GENERAL, THE STONES SHALL BE SELECTED TO BE THE LARGEST ROCKS AVAILABLE. STONES MUST HAVE A MINIMUM DRY UNIT WEIGHT OF 145 LBS/CF.

2. SILICA COBBLE

SILICA COBBLE SHALL MEET THE STONE SIZES SPECIFIED IN THE RIFFLE-WEIR ROCK SIZE TABLE. COBBLE SHALL BE COMPOSED OF A WELL-GRADED MIXTURE OF STONE SIZE SO THAT 50% OF THE PIECES BY SIZE SHALL BE LARGER THAN THE D50 SIZE. A WELL GRADED MIXTURE IS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE SIZES BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE LARGE VOIDS BETWEEN THE STONES. COBBLE SHALL CONSIST OF NATURALLY OCCURRING SILICA-BASED MATERIAL AND SHALL BE BROWN, LIGHT TAN, OR OTHER NATURAL EARTH TONES IN COLOR. THE ROCK SHALL BE FREE FROM LAMINATIONS AND WEAK CLEAVAGES AND SHALL NOT DISINTEGRATE FROM THE ACTION OF AIR, WATER, HANDLING OR PLACING. SILICA COBBLE MUST HAVE A MINIMUM DRY UNIT WEIGHT OF 145 LBS/CF.

3. BANK RUN GRAVEL FILTER

BANK RUN GRAVEL FILTER SHALL MEET THE AGGREGATE GRADING REQUIREMENTS AS SPECIFIED IN AGGREGATE BASE AND SUBBASE COURSES OF AACO SPECIFICATION 02621.02.C OR AS DIRECTED BY THE COUNTY. IT SHALL BE A MIX OF EQUAL PARTS BANK RUN GRAVEL SUBBASE COURSE AND COARSE AGGREGATE FOR BASE COURSE.

4. SUITABLE FILL

SUITABLE FILL SHALL BE FROM ON-SITE EXCAVATIONS (IF OF PROPER QUALITY) OR FROM OFF SITE BORROW SOURCES. ALL FILL AND/OR BACKFILL MATERIAL SHALL BE FREE FROM VEGETATIVE MATTER, ORGANICS, FROZEN MATERIAL, ROCKS/STONES GREATER THAN ONE AND A HALF INCHES IN ANY DIMENSION, WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR OTHER DELETERIOUS MATERIALS. THE MATERIAL SHALL NOT CONTAIN MICA IN QUANTITIES WHICH, IN THE JUDGEMENT OF THE ENGINEER, ARE SUFFICIENT TO AFFECT COMPACTION CHARACTERISTICS AND SHALL BE A MINIMUM OF 85 POUNDS PER CUBIC FOOT FOR THE MAXIMUM DRY DENSITY ACCORDING TO AASHTO T-150, METHOD C.

5. SELECT BORROW

SELECT BORROW MATERIAL SHALL CONFORM TO THE REQUIREMENTS OUTLINED IN THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION, INCLUDING ANY APPLICABLE REVISIONS AND ADDENDA, SPECIFICALLY SECTION 203 - EXCAVATION AND EMBANKMENT AND SECTION 901 - FURNISHING OF BORROW MATERIAL.

6. SILICA-BASED GRAVEL

CONSISTING OF HARD, DURABLE MATERIAL DERIVED FROM NATURALLY HIGH-SILICA SOURCES SUCH AS QUARTZ OR QUARTZITE. THE STONE SHALL BE CLEAN AND WASHED, FREE OF FINES, CLAY, SILT, ORGANIC MATTER, AND OTHER DELETERIOUS SUBSTANCES, WITH TOTAL FINES NOT EXCEEDING ONE PERCENT BY WEIGHT. STONE COLORATION SHALL CONSIST OF NATURALLY OCCURRING WHITE, TAN, RED, PURPLE, AND BROWN TONES, WITH NO ARTIFICIAL COLORANTS OR COATINGS PERMITTED. FIFTY PERCENT OF THE PIECES BY SIZE SHALL BE LARGER THAN THE SPECIFIED D50 SIZE. THE MATERIAL SHALL HAVE A MINIMUM DRY UNIT WEIGHT OF 145 LBS/CF.

7. SAND

SAND IF APPROVED FOR USE BY THE COUNTY SHALL MEET AASHTO-M-6 OR ASTM-C-33 STANDARD, 0.02 INCHES TO 0.04 INCHES IN SIZE. SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 IS NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO ROCK DUST SHALL BE SUBSTITUTED FOR SAND.

SUBMITTALS

8. THE CONTRACTOR SHALL PROVIDE CERTIFICATIONS OF COMPLIANCE STATING THAT ALL ITEMS FURNISHED ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

9. PRIOR TO THE START OF WORK ON THIS ITEM, THE CONTRACTOR SHALL SUBMIT THE SOURCE OF SUPPLY OF STONE TO THE COUNTY FOR REVIEW AND APPROVAL. IF REQUIRED BY THE COUNTY, THE CONTRACTOR AND THE COUNTY OR ITS REPRESENTATIVE WILL JOINTLY VISIT THE SOURCE SITES TO DETERMINE WHETHER THE STONE MEETS THE SPECIFIED REQUIREMENTS AND WHETHER THERE ARE SUFFICIENT QUANTITIES OF THE STONE TO MEET THE PROJECT REQUIREMENTS. THE CONTRACTOR WILL NOT BE GRANTED AN EXTENSION OF TIME OR EXTRA COMPENSATION DUE TO DELAY CAUSED BY SAMPLING, TESTING, APPROVAL OR DISAPPROVAL OF MATERIAL UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A CERTIFICATE VERIFYING THE FOLLOWING:

- A. STONE CLASSIFICATION
- B. STONE DENSITY (I.E., WEIGHT PER CUBIC FOOT)
- C. WEIGHT OF STONE BEING SUPPLIED.
- D. STONE QUALITY SHALL MEET ALL OF THE ABOVE SPECIFICATIONS.

10. THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC DOCUMENTATION OF ALL ROCK INCLUDING BOULDERS, COBBLE AND RIPRAP TO VERIFY COLOR REQUIREMENTS.

11. THE CONTRACTOR SHALL PROVIDE A CERTIFICATION FOR REVIEW AND APPROVAL THAT VERIFIES THE BANK RUN GRAVEL MEETS THE REQUIRED GRADATION. MATERIAL MAY NOT BE INSTALLED WITHOUT PRIOR APPROVAL.

12. THE CONTRACTOR SHALL FURNISH SPECIFICATIONS AND A SOURCE OF SOIL STABILIZATION MATTING TO THE COUNTY FOR REVIEW AND APPROVAL.

13. ANY UNAPPROVED MATERIAL BROUGHT TO THE PROJECT SITE THAT IS NOT APPROVED WILL BE REMOVED AND REPLACED AT NO EXPENSE TO THE COUNTY.

CONSTRUCTION

14. THE RIFFLE-WEIRS SHALL BE INSTALLED ACCORDING TO THE SEQUENCE OF CONSTRUCTION, THE CONSTRUCTION DRAWINGS, THESE SPECIFICATIONS, AND AS DIRECTED BY THE COUNTY.

15. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT, INSTALL, AND MAINTAIN THE RIFFLE-WEIRS AS SHOWN ON THE CONTRACT DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS OR AS DIRECTED BY THE COUNTY.

16. THE CONTRACTOR SHALL REVIEW THE DETAILS AND SPECIFICATIONS WITH THE ENGINEER PRIOR TO CONSTRUCTION.

17. THE CONTRACTOR SHALL STAKE OUT THE EXTENTS OF EACH STRUCTURE AND IF REQUIRED, REVIEW THE STAKEOUT WITH THE COUNTY PRIOR TO CONSTRUCTION. AT A MINIMUM, THE FIRST RIFFLE-WEIR STRUCTURE STAKEOUT MUST BE REVIEWED AND APPROVED BY THE COUNTY PRIOR TO CONSTRUCTION.

18. 25% COVERAGE OF 9" STONES IS REQUIRED WITHIN ALL STONE PLACEMENT AREAS.

19. RIFFLE-WEIR MIX SHOULD BE PLACED IN VERTICAL LIFTS OF NO MORE THAN TWELVE (12) INCHES THICK. STREAMBED MATERIAL SHALL BE WASHED INTO THE MIX AFTER EACH LAYER IS PLACED TO MINIMIZE VOID SPACE IN THE MIXTURE EXCEPT FOR THE TOP 4 INCHES WHICH DO NOT REQUIRE STREAMBED MATERIAL. STONE SHALL BE PLACED IN A MANNER SO THAT IT SHINGLES IN A DOWNSTREAM DIRECTION, MINIMIZES VOID SPACE AND PROMOTES INTERLOCKING. DUMPING OF STONE WILL NOT BE PERMITTED. EACH LIFT SHALL BE COMPACTED BY TRACKING OVER WITH EQUIPMENT. CONTRACTOR SHALL TRACK OVER THE MIX MULTIPLE TIMES TO UNIFORMLY COMPACT. VOID SPACE MUST BE MINIMIZED TO THE SATISFACTION OF THE ENGINEER PRIOR TO ACCEPTANCE OF EACH CONSTRUCTED STRUCTURE. STRUCTURES OBSERVED LUMPING DUE TO INADEQUATE COMPACTION AT ANY POINT DURING CONSTRUCTION OR DURING THE WARRANTY PERIOD WILL BE REQUIRED TO BE REBUILT AT NO ADDITIONAL COST TO THE COUNTY.

20. OBSERVE DURING AND AFTER STORMS TO NOTE FLOW OVER WEIRS AND ADD ADDITIONAL SMALL ROCK AND STREAMBED MATERIAL IN STRATEGIC LOCATIONS TO

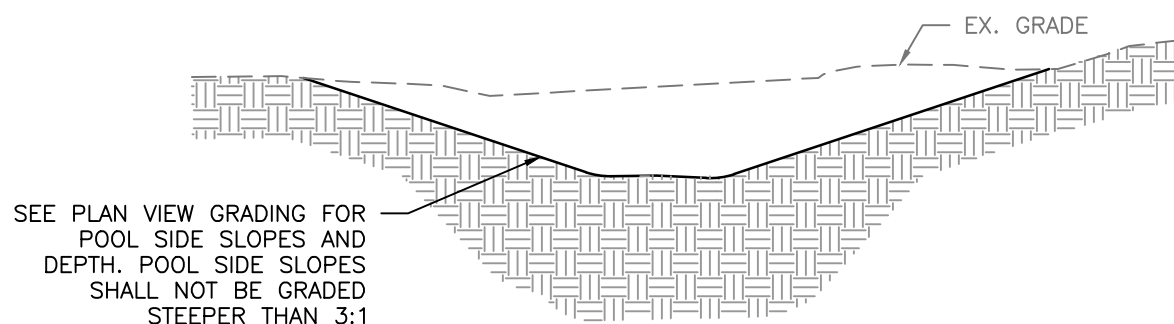
FILL VOIDS INCLUDING ALONG THE SHOULDERS OF THE WEIRS. WITHIN THE BASEFLOW PATH, THE TOP 4 INCHES OF THE COBBLE MIX DO NOT REQUIRE STREAMBED MATERIAL.

21. ONCE THE RIFFLE-WEIR-POOL COMBINATION IS COMPLETE, THE ENTIRE SURFACE SHALL BE STABILIZED. ANY DISTURBED AREA SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH CONTRACT DOCUMENTS AT THE END OF EACH WORKING DAY.

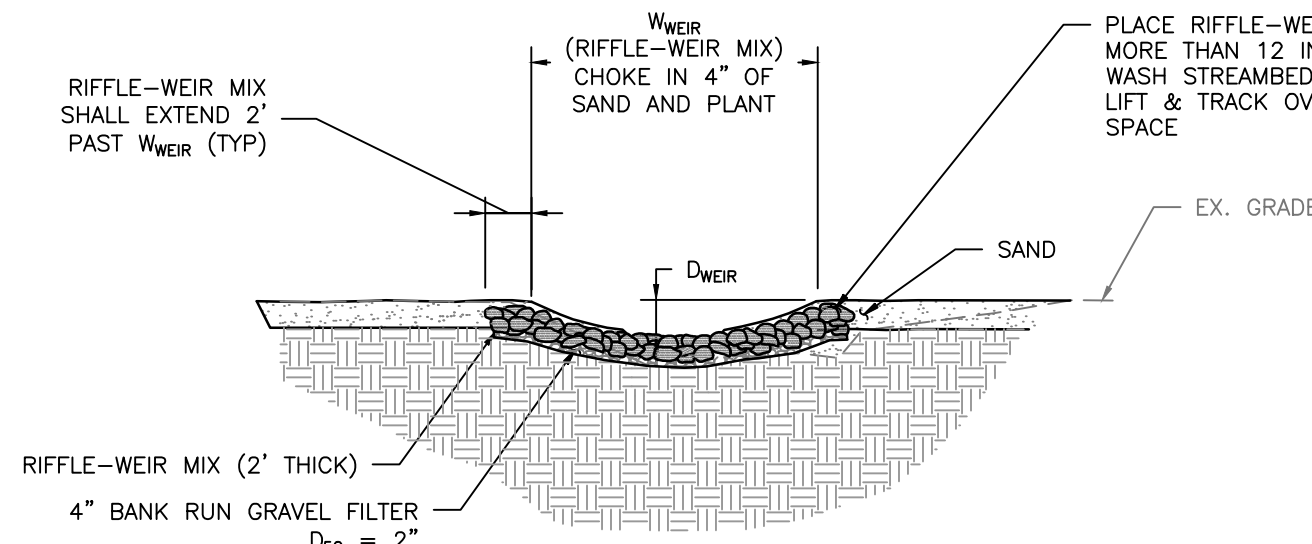
22. SURFACE ELEVATIONS OF THE STRUCTURES SHALL CONFORM TO THE PROPOSED DESIGN STORMWATER BMP PROFILES AND CROSS SECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS. TOLERANCES OF THE FINISHED STRUCTURE ARE AS FOLLOWS:

SURFACE ELEVATION: +/- 0.2 FEET
SLOPE: +/- 0.1 PERCENT

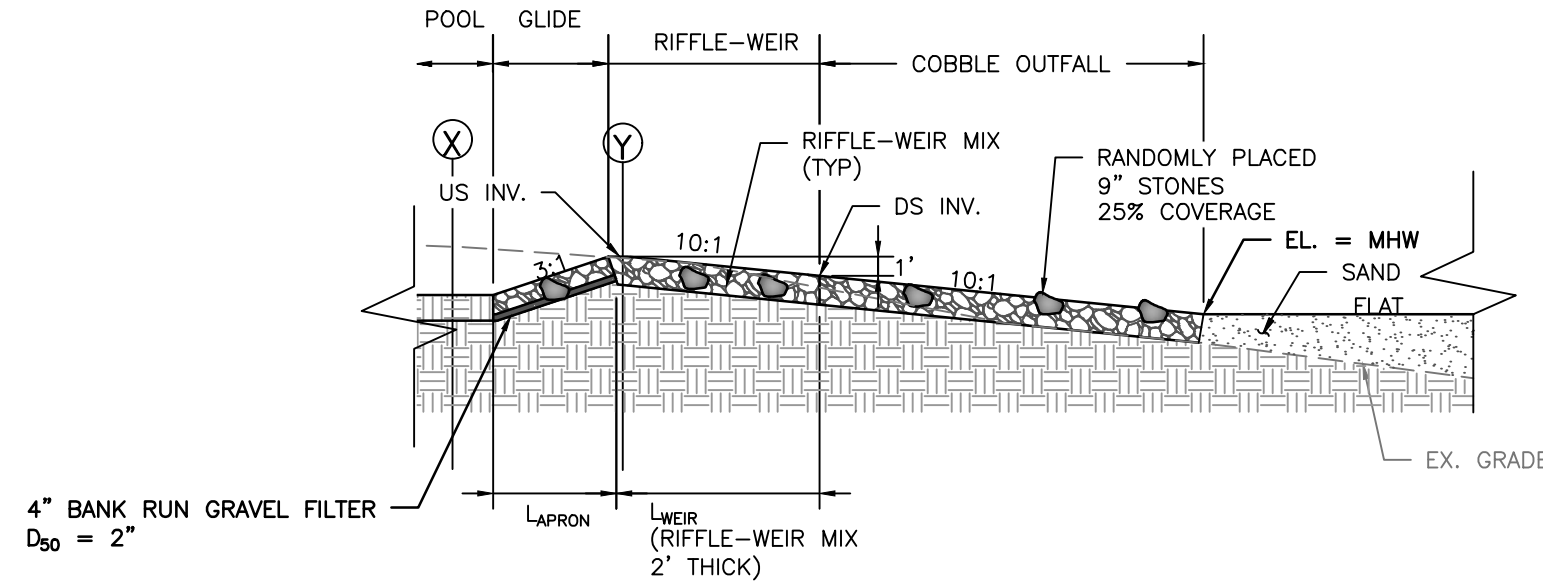
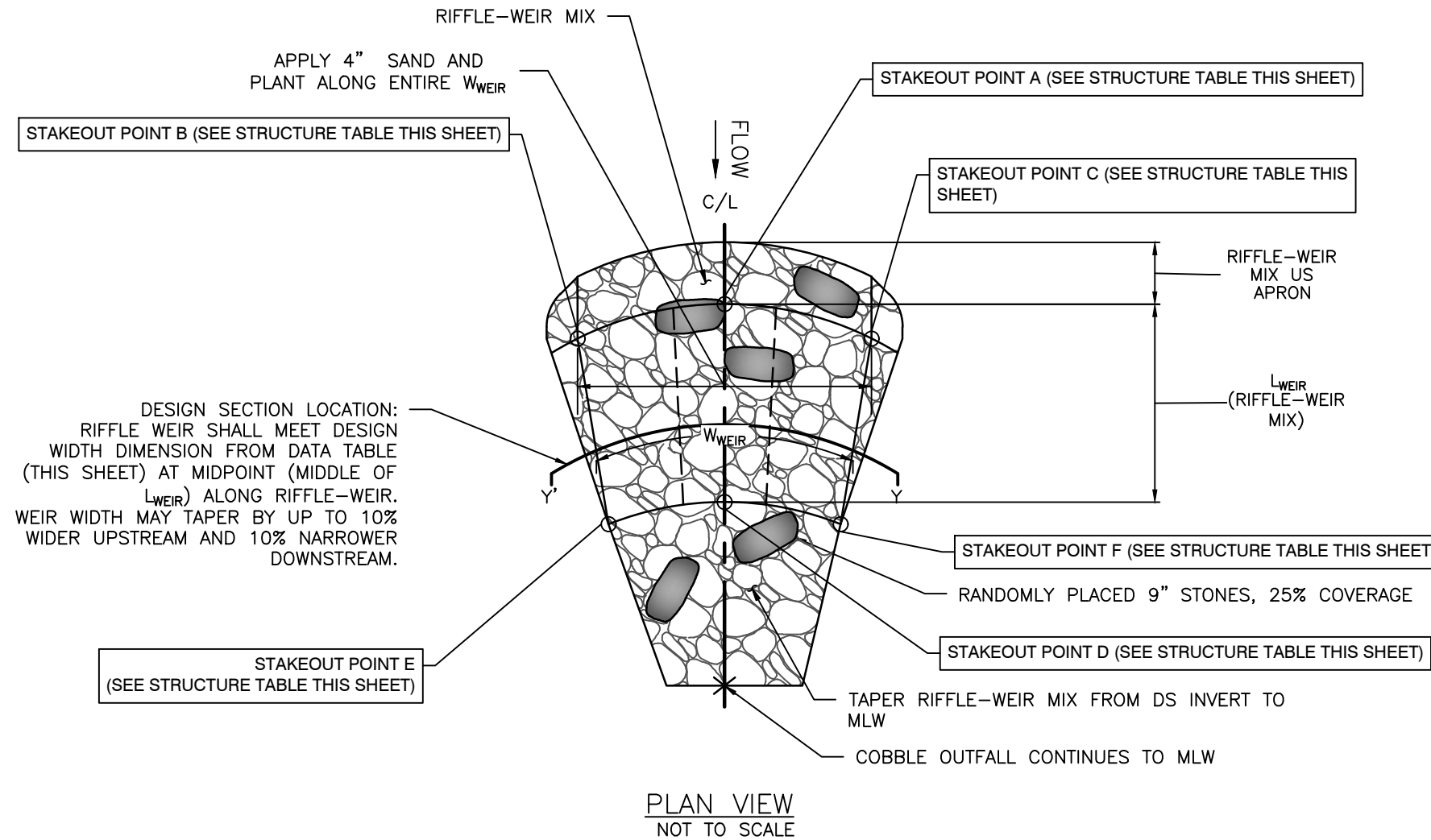
23. PLACED MATERIAL NOT CONFORMING TO THE SPECIFIED LIMITS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE COUNTY AT NO ADDITIONAL COST.



SECTION X
THROUGH POOL IN CUT
NOT TO SCALE



SECTION Y-Y'
WEIR (THROUGH RIFFLE-WEIR MIX)
IN CUT
NOT TO SCALE



PROFILE VIEW (SHOWN AT THALWEG)
NOT TO SCALE

A STRUCTURE STAKEOUT LOCATION (TYP.) SEE STRUCTURE TABLE THIS SHEET

CONCRETE SAND MAY BE SUBSTITUTED FOR SUITABLE FILL WITH WRITTEN APPROVAL FROM THE COUNTY.

RIFFLE WEIR DETAILS

SCALE: NOT TO SCALE

RIFFLE-WEIR DATA TABLE

	ALL WEIRS
RIFFLE LENGTH (LWEIR, FEET)	10
DROP ACROSS RIFFLE (RDRP, FEET)	1
RIFFLE WIDTH (WWEIR, FEET)	20
RIFFLE DEPTH (DWEIR, FEET)	2.0
RUN SLOPE (H1:V1, FEET/FEET)	3:1
GLIDE SLOPE (H2:V2, FEET/FEET)	3:1
RIFFLE WIDTH TO DEPTH RATIO (WWEIR:DWEIR, FEET/FEET)	10.00

RIFFLE-WEIR ROCK SIZE TABLE

STRUCTURE ID	ROCK TYPE	ROCK SIZE	% MIX BY PART
RW1	RIFFLE-WEIR MIX #1	SILICA COBBLE (RANGE=4" TO 9"; D/50=6.0"; D/100=9.5")	60
		2" SILICA GRAVEL	15
		9" SILICA STONES	25

- NOTES:
1. THE MINIMUM DRY UNIT WEIGHT FOR ALL STONE SHALL BE 145 LB/CF.
2. SUBSTITUTIONS FOR SILICA 9" STONES MUST BE APPROVED BY THE COUNTY AND ENGINEER.

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: 04/20/2028.

30% DESIGN



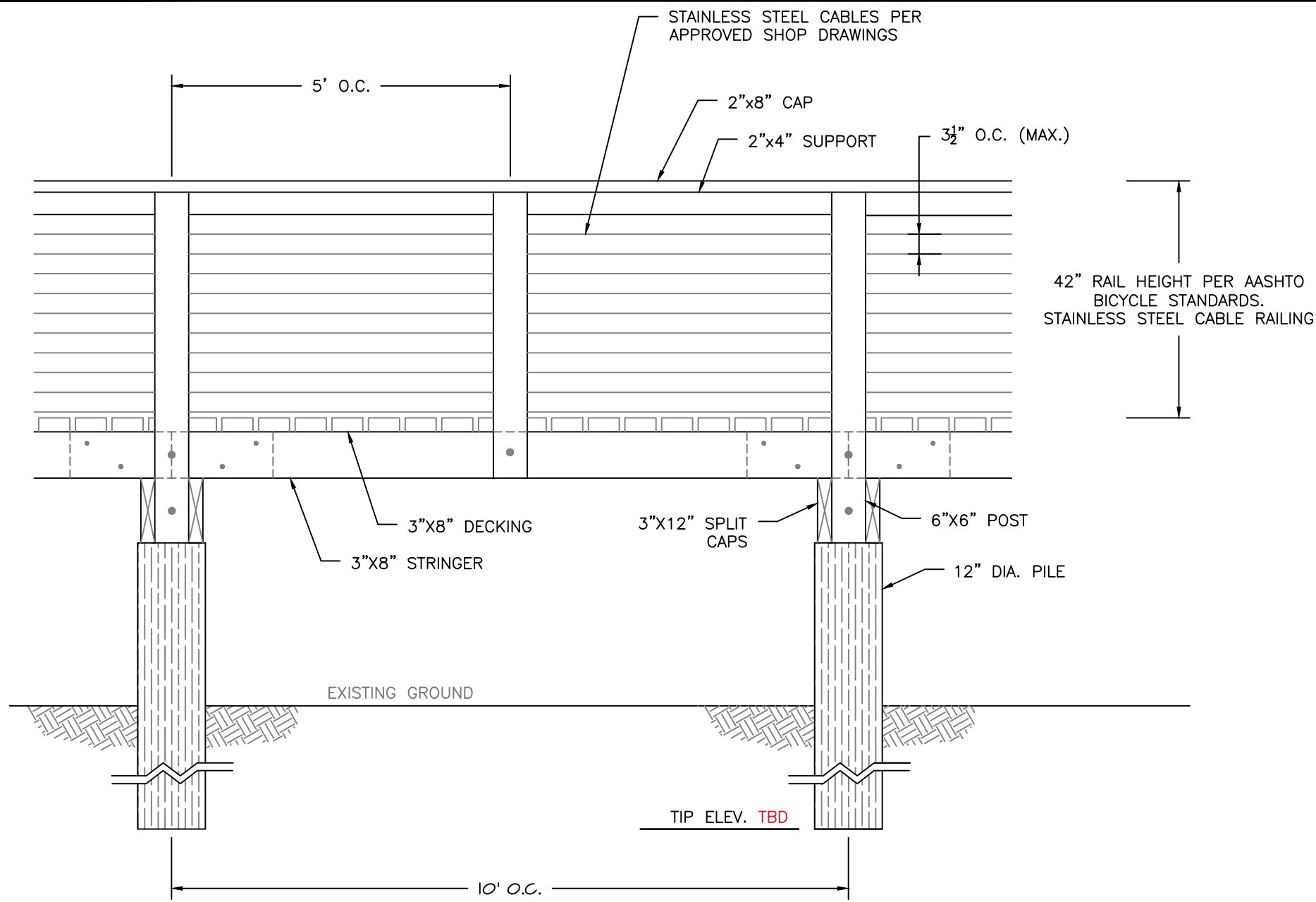
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BAYLAND JOB NO. 8_57401

JONAS & ANNE CATHARINE GREEN PARK
COASTAL RESILIENCE PROJECT
RIFFLE WEIR DETAILS

REVISIONS			DESIGNED BY:	JH	7/29/26
DATE	BY	DESCRIPTION	DRAWN BY:	JH	7/29/26
			CHECKED BY:	AJ	7/29/26
			SHEET NO.		8 OF 17

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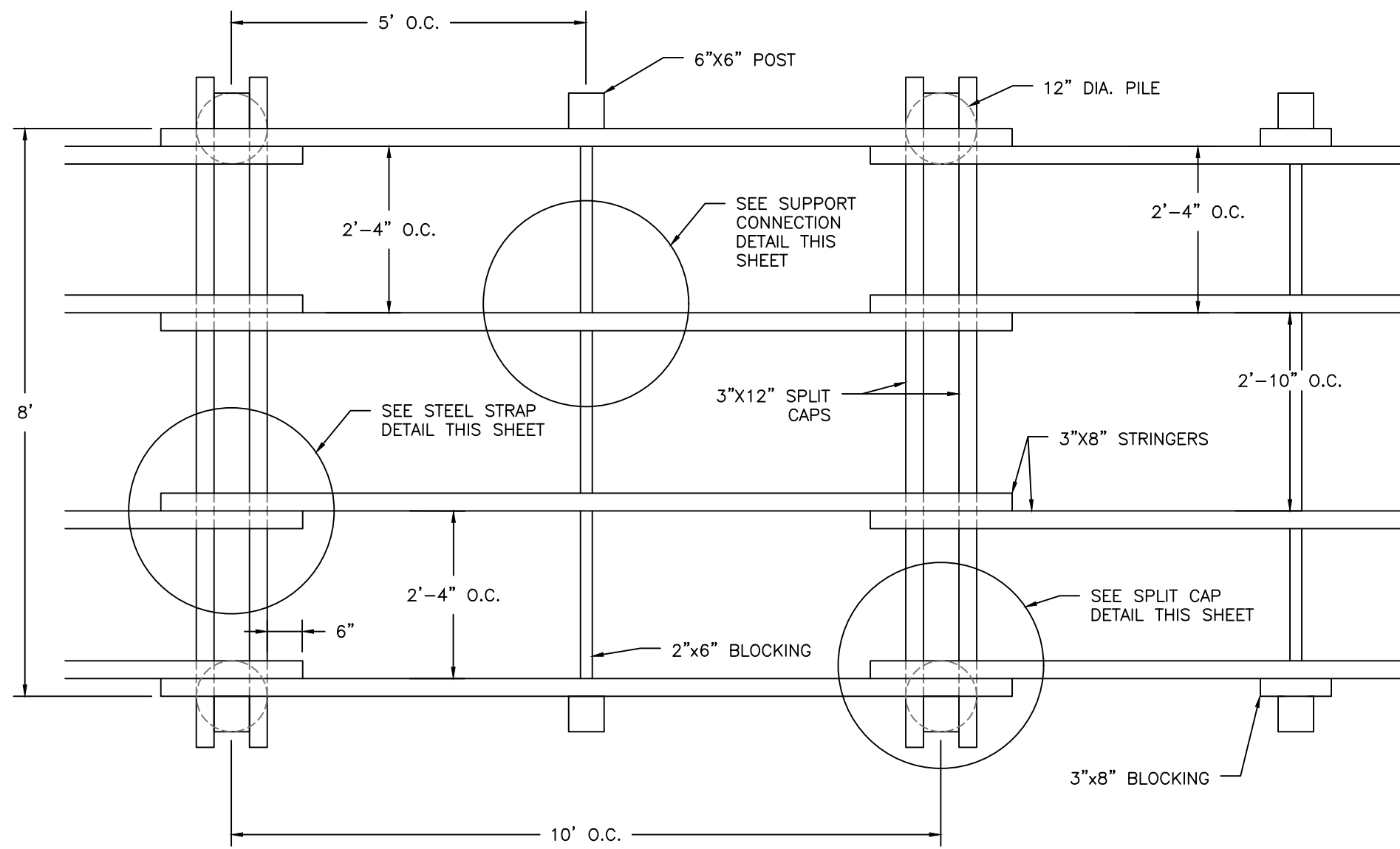


TYPICAL BOARDWALK & ACCESS BRIDGE SIDE VIEW

SCALE: 1" = 2'

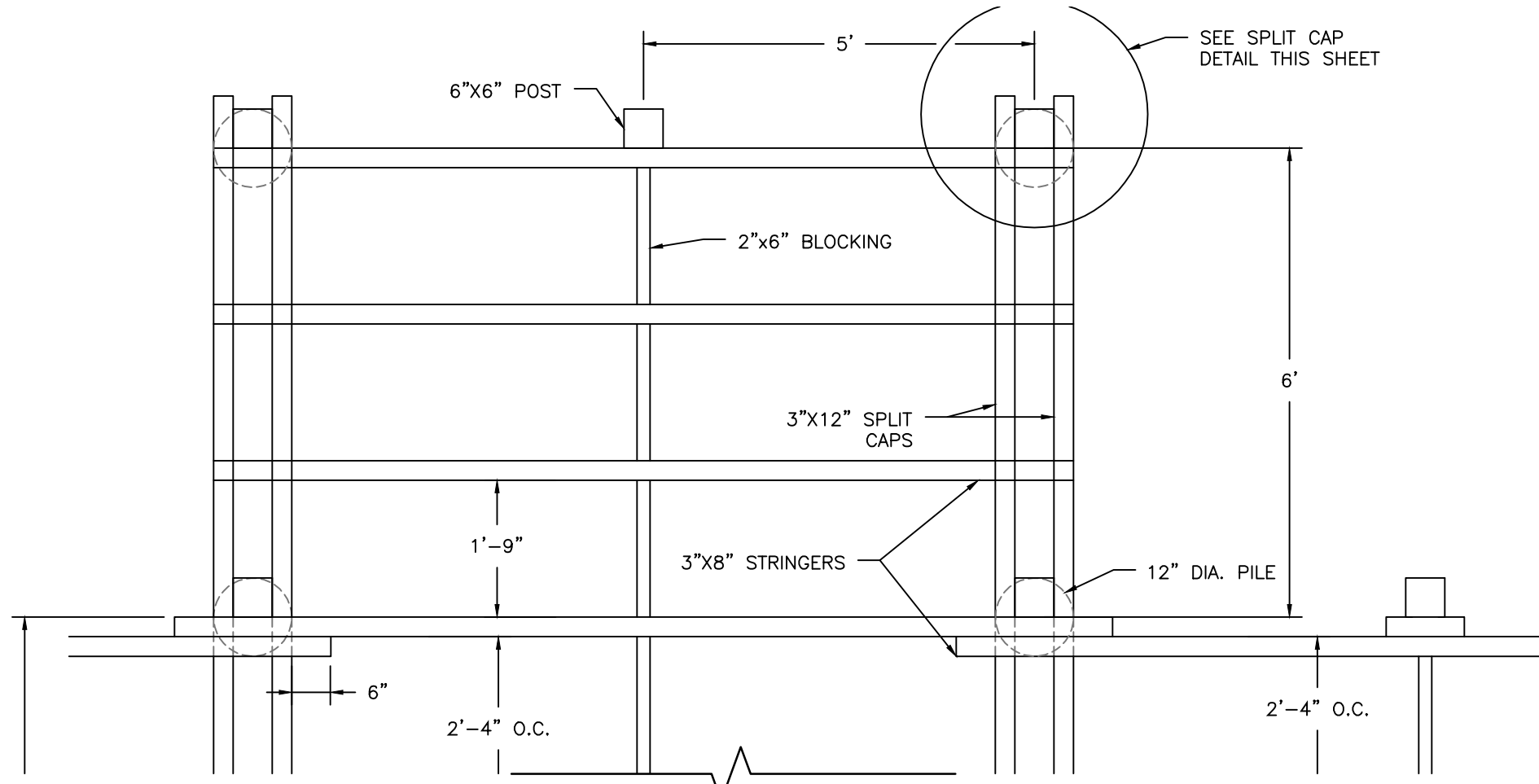
STAINLESS STEEL CABLE RAILING NOTE

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE PROPOSED STAINLESS STEEL CABLE RAILING SYSTEM. THE SHOP DRAWINGS MUST BE STAMPED APPROVED BY MARYLAND REGISTERED PROFESSIONAL ENGINEER.



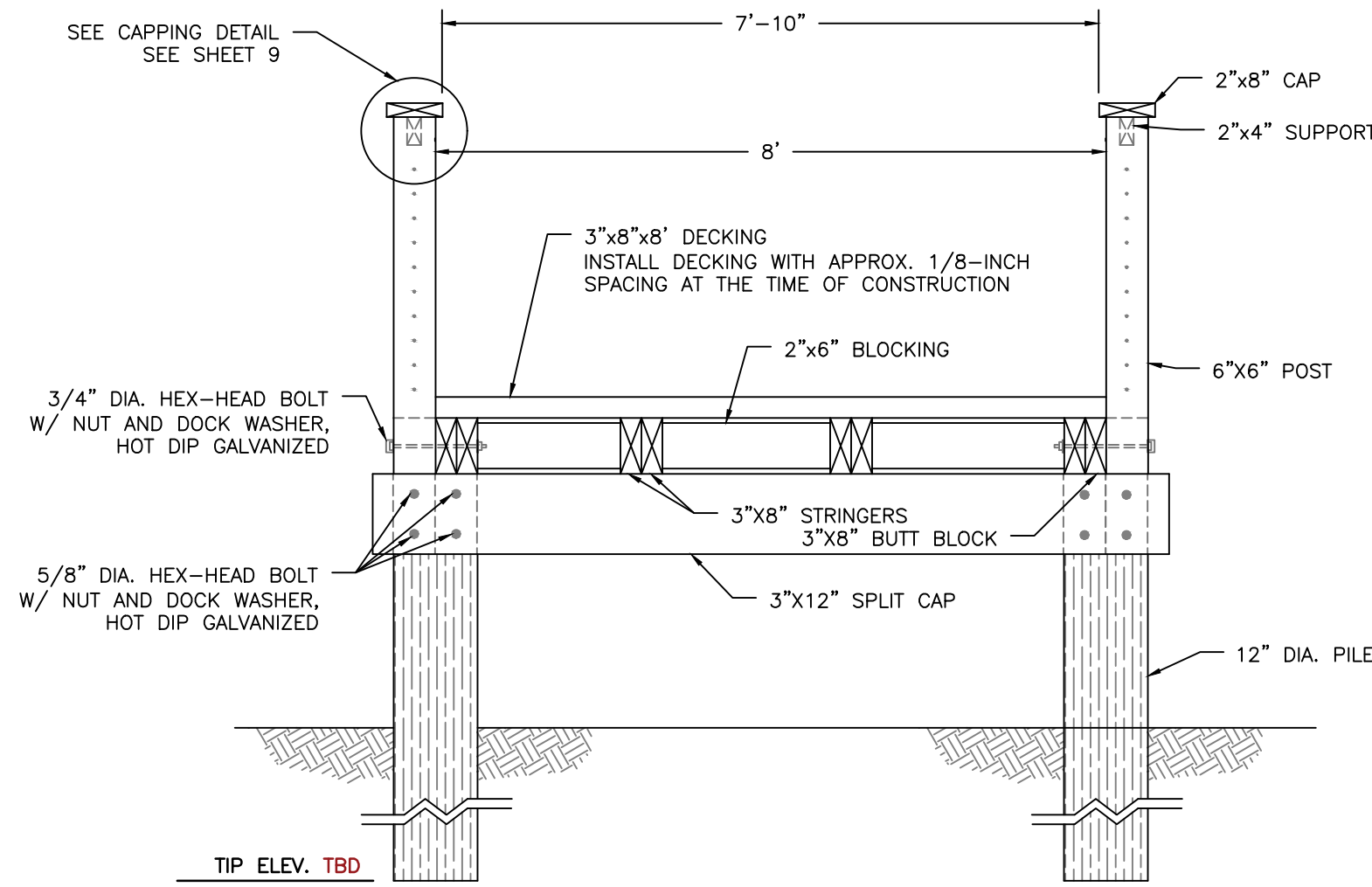
TYPICAL BOARDWALK PLAN VIEW

SCALE: 1" = 2'



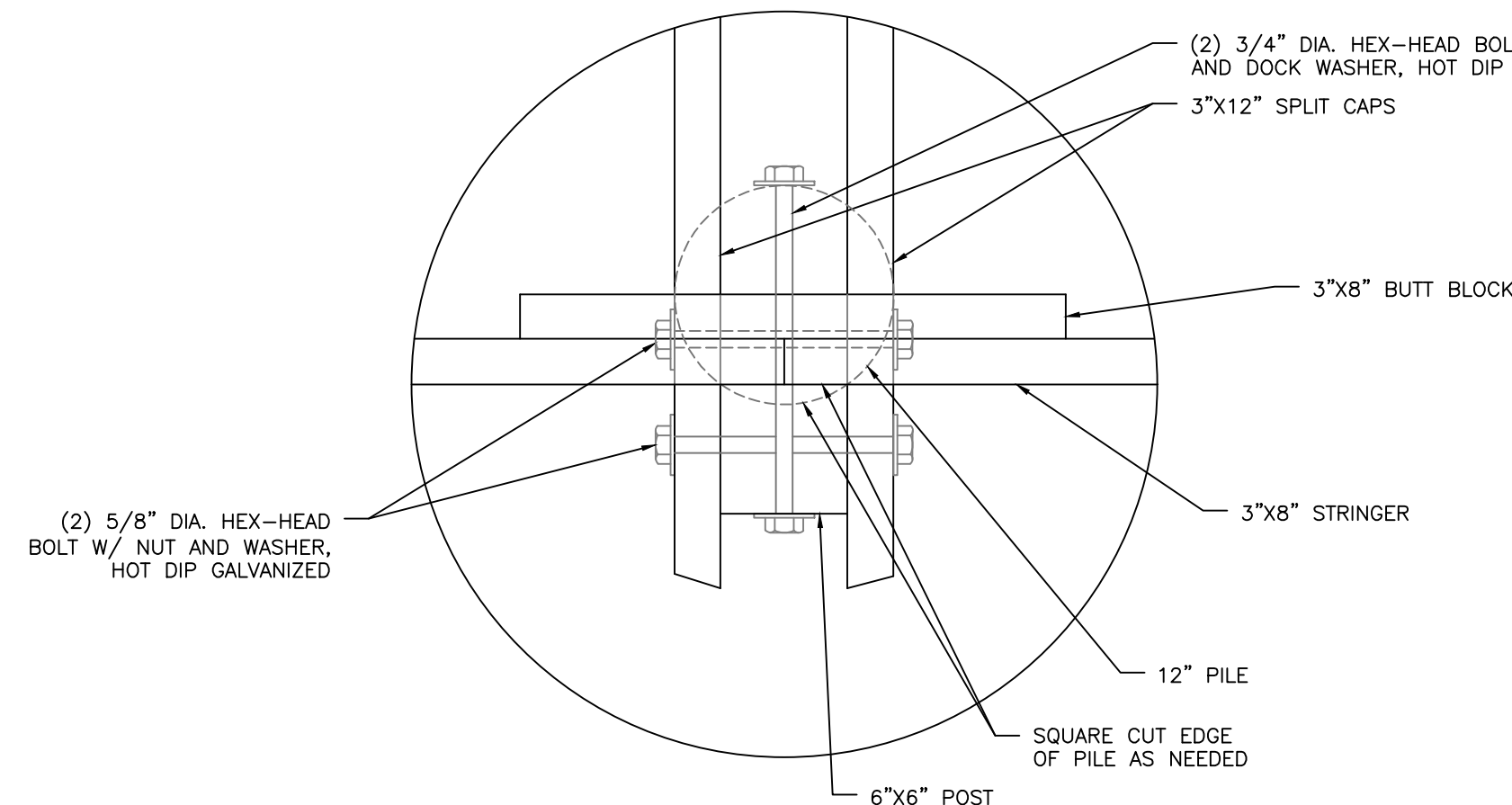
TYPICAL BOARDWALK BENCH COVE PLAN VIEW

SCALE: 1" = 2'



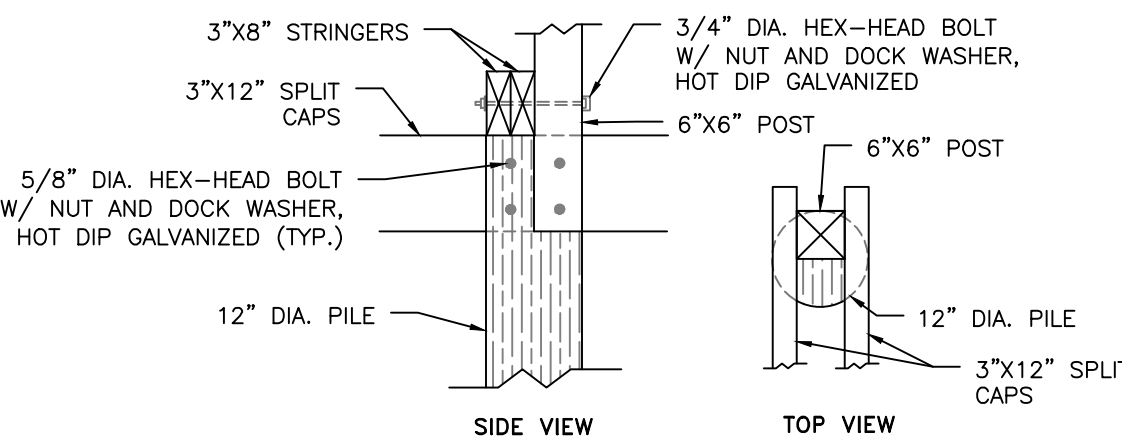
TYPICAL BOARDWALK CROSS SECTION

SCALE: 1" = 2'



SPLIT CAP DETAIL

NOT TO SCALE



PILE DETAILS

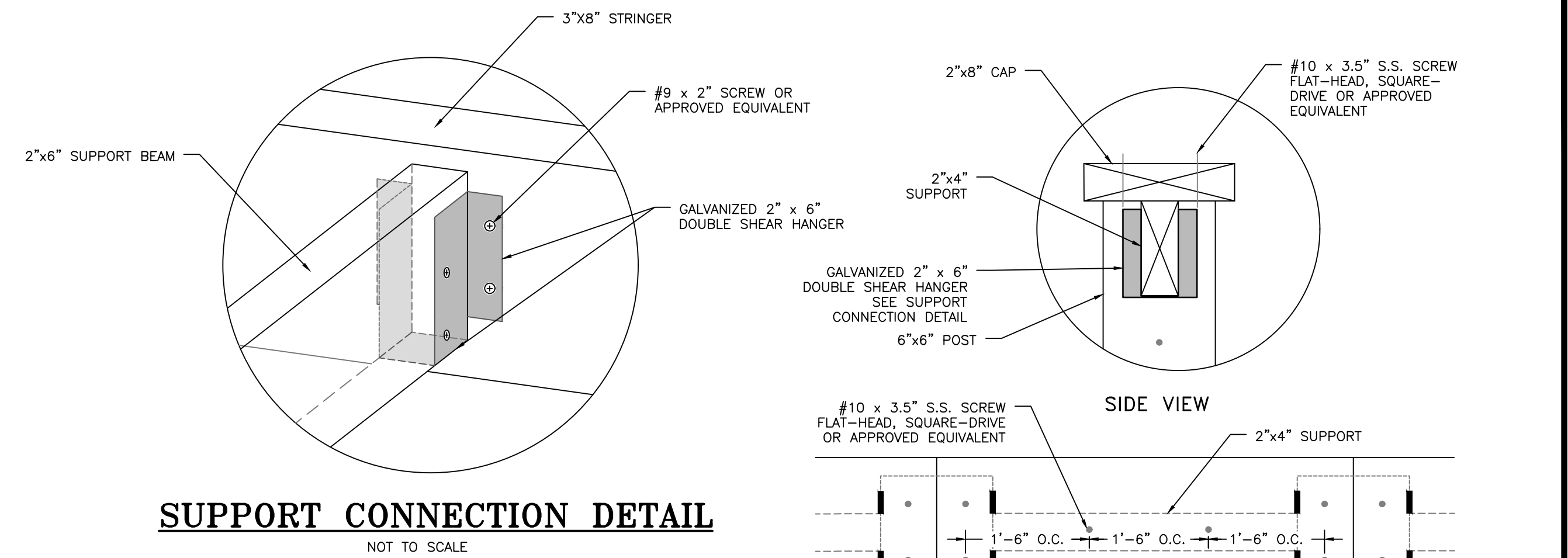
SCALE: 1" = 2'

NOTES:

1. ALL PILES SHALL BE 12" DIA. TIMBER TYPE 'B' AND TREATED W/ 2.5 CCA
2. ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP
2.1. STRUCTURAL LUMBER SHALL BE TREATED W/ 1.0 CCA
2.2. DECKING, POSTS, & CAPS SHALL BE TREATED W/ 0.06 CA-C
3. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED (GALV.) OR 305 STAINLESS STEEL (S.S.)
4. ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK
5. INSTALL DECKING WITH APPROXIMATELY 1/8-INCH SPACING AT THE TIME OF CONSTRUCTION.

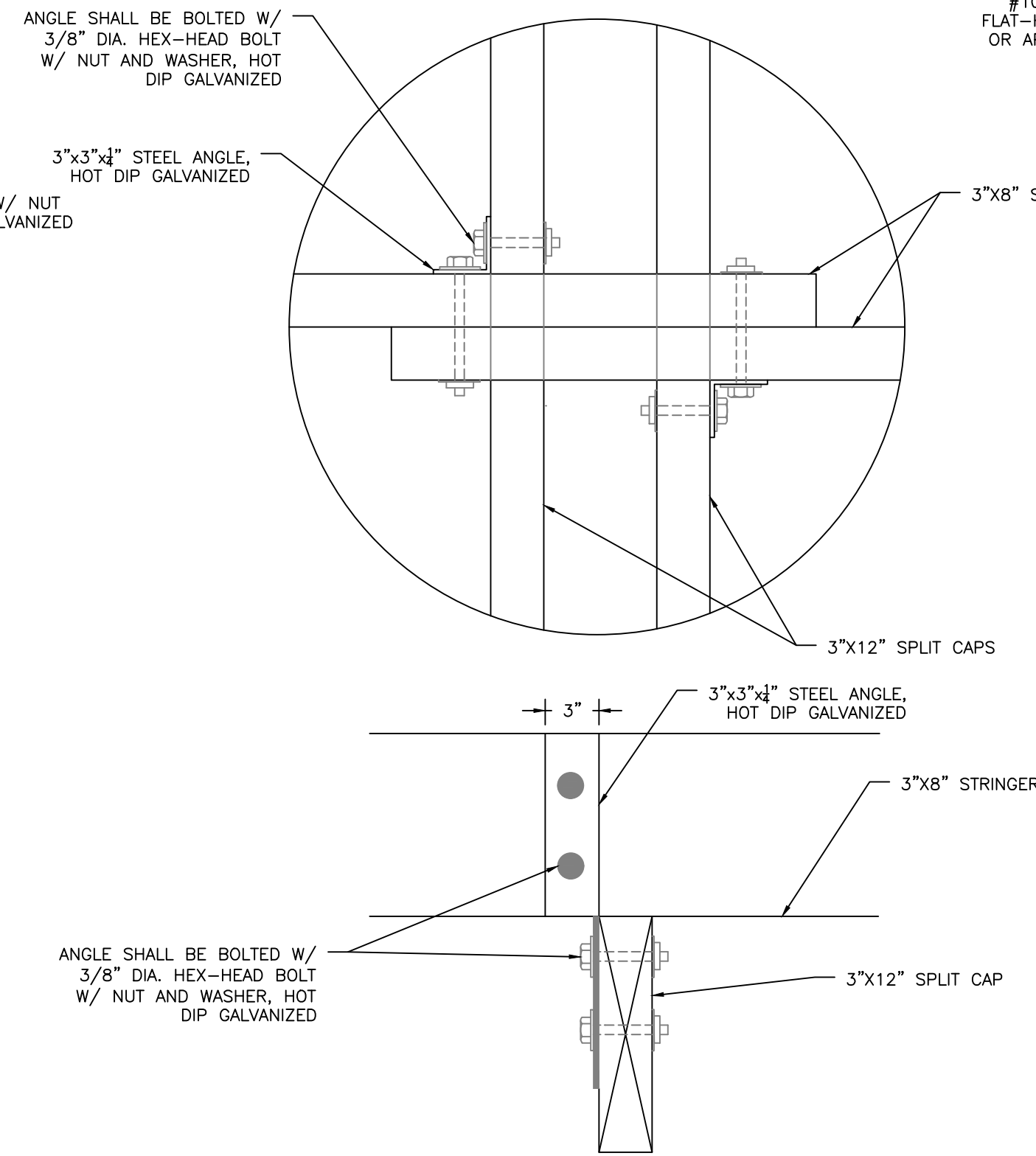
ADA COMPLIANCE NOTE

IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-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 PF1 - PF29



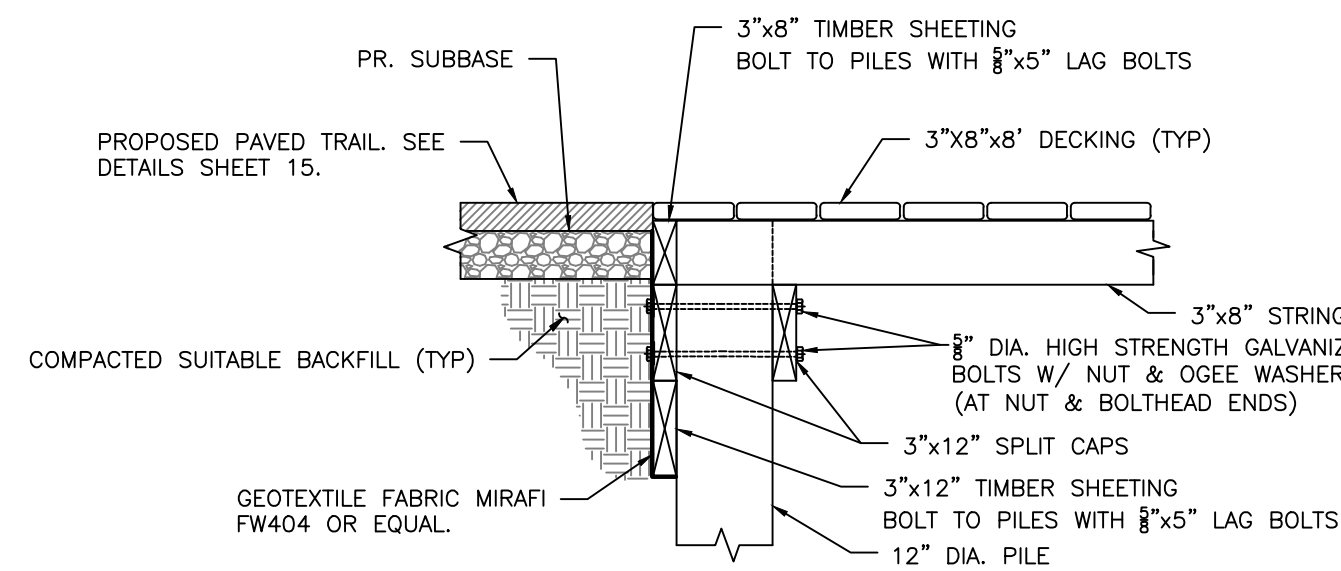
SUPPORT CONNECTION DETAIL

NOT TO SCALE



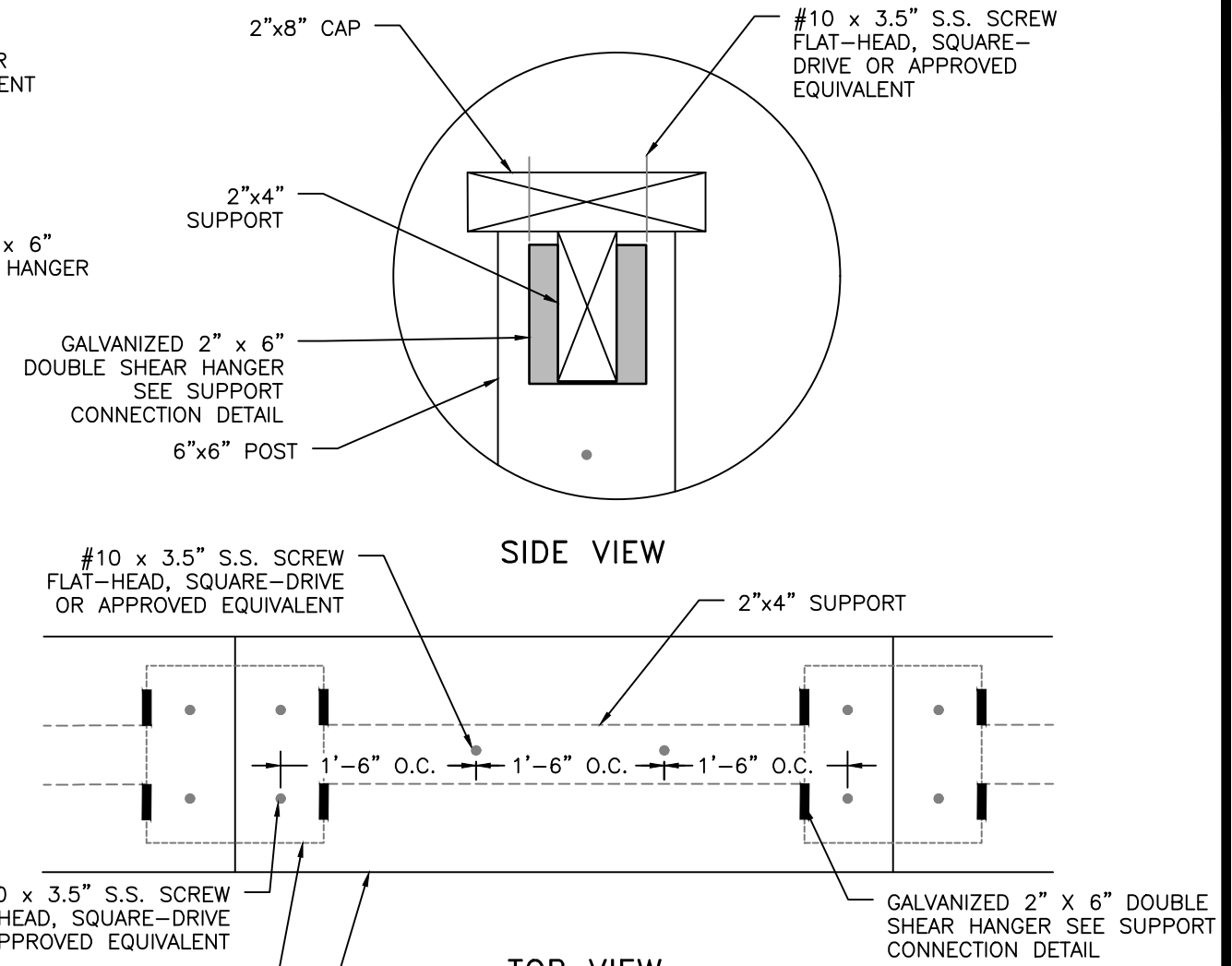
STEEL STRAP DETAIL

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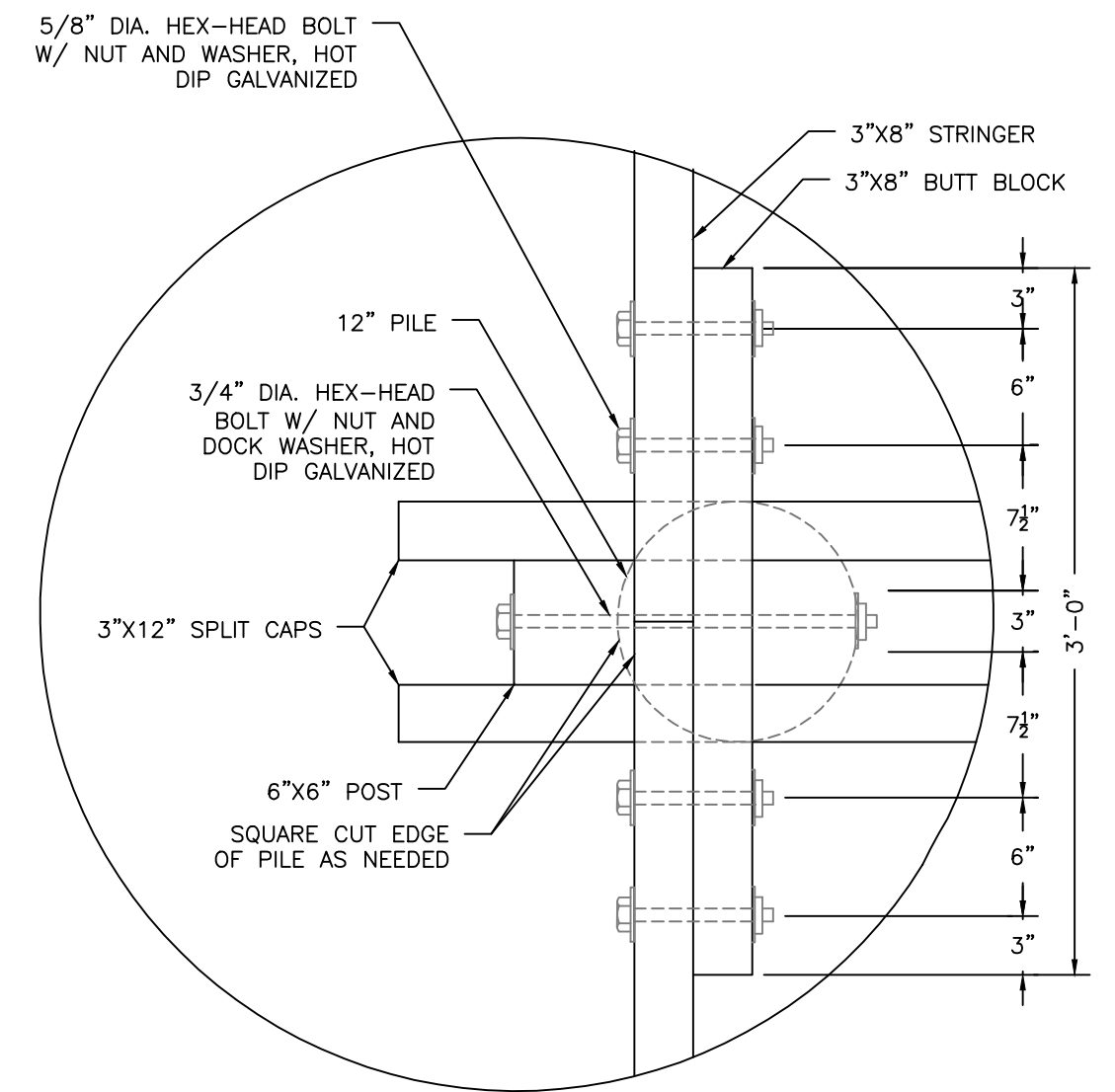
BOARDWALK TO PAVED TRAIL TRANSITION

SCALE: 1" = 2'



CAPPING DETAIL

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BUTT BLOCK DETAIL

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PROFESSIONAL CERTIFICATION

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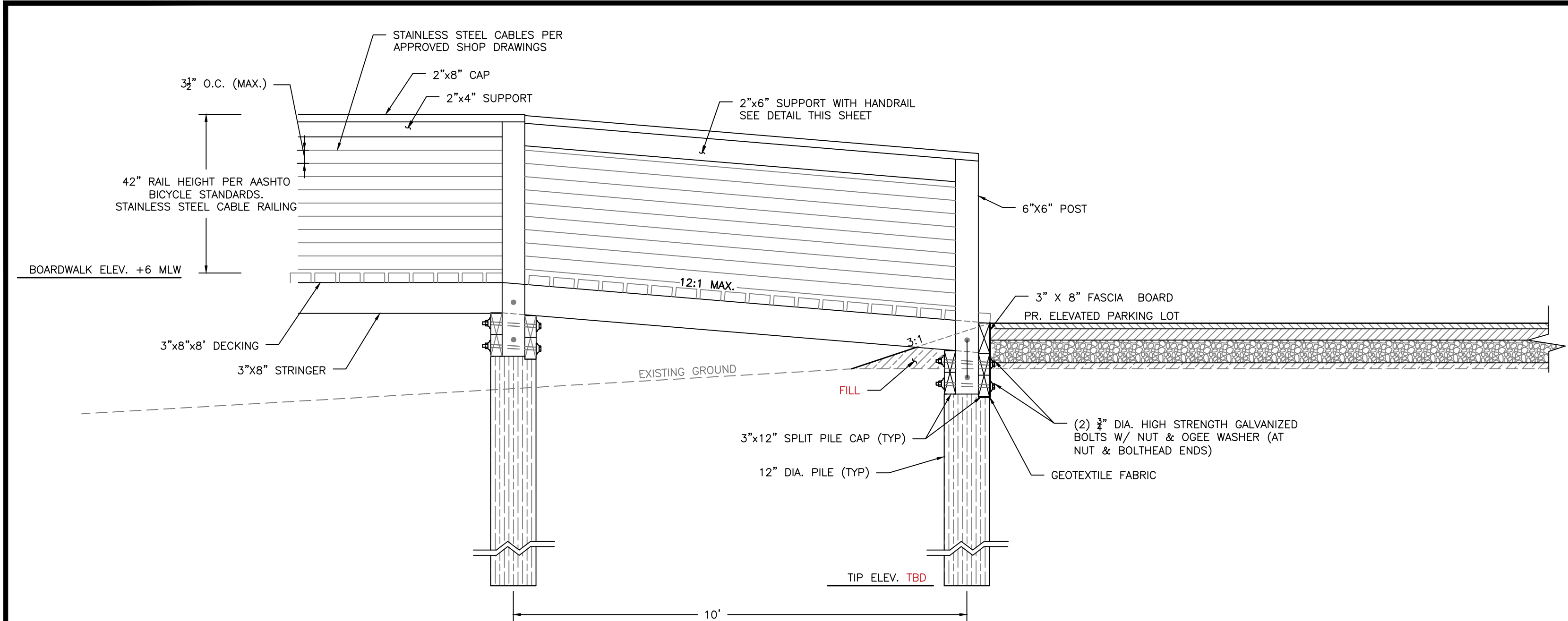
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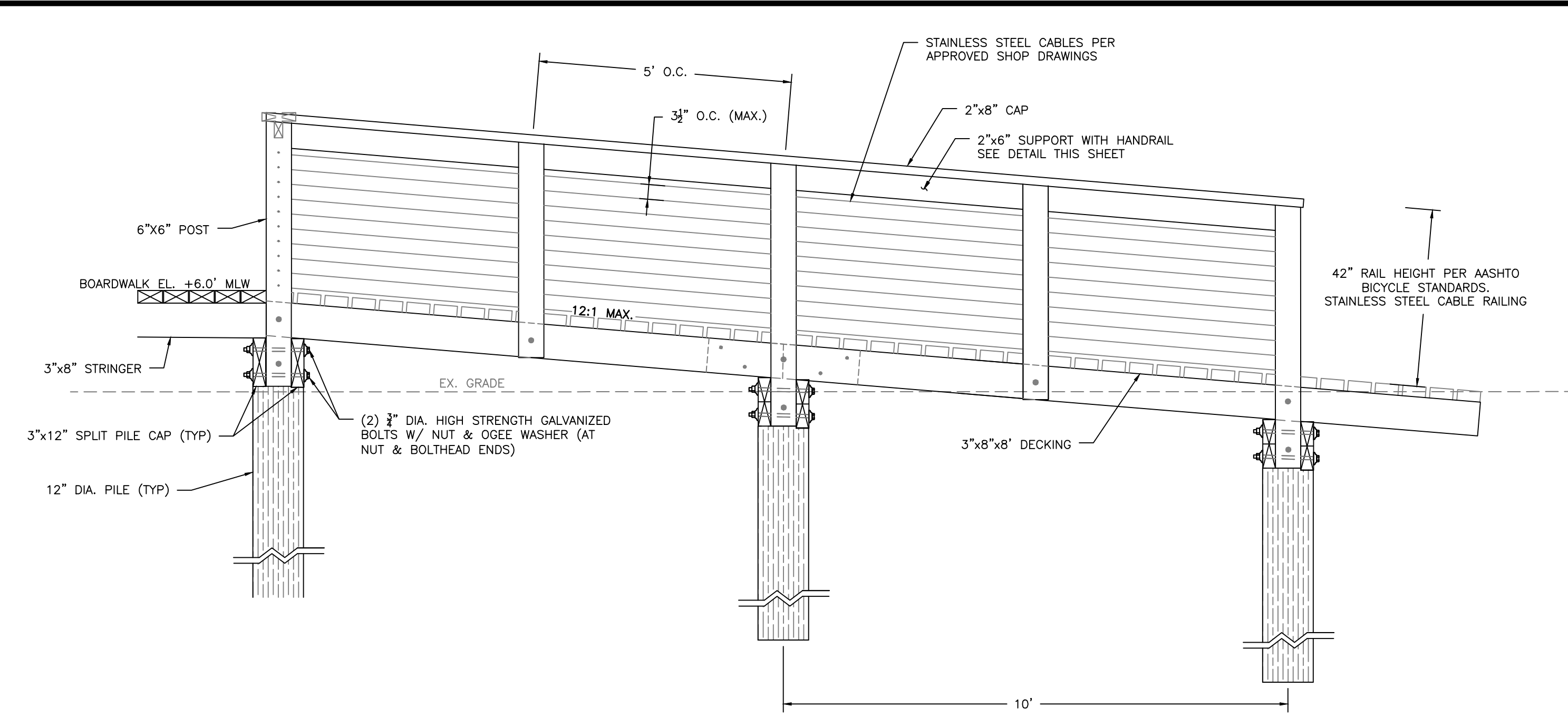
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JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT BOARDWALK DETAILS

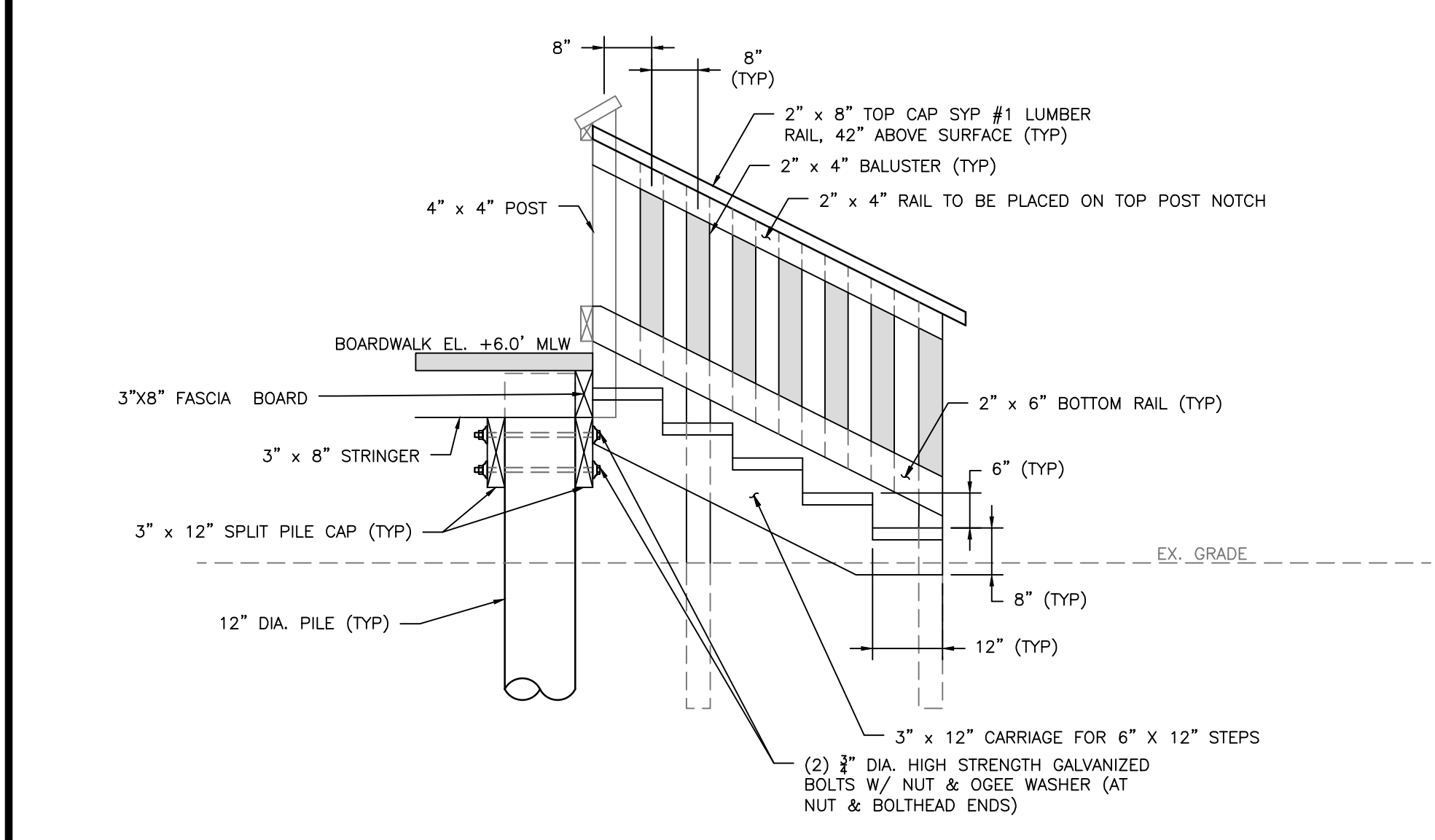
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DATE	BY	DESCRIPTION	DRAWN BY:	JH
			CHECKED BY:	AJ
			SHEET NO.	9 OF 17



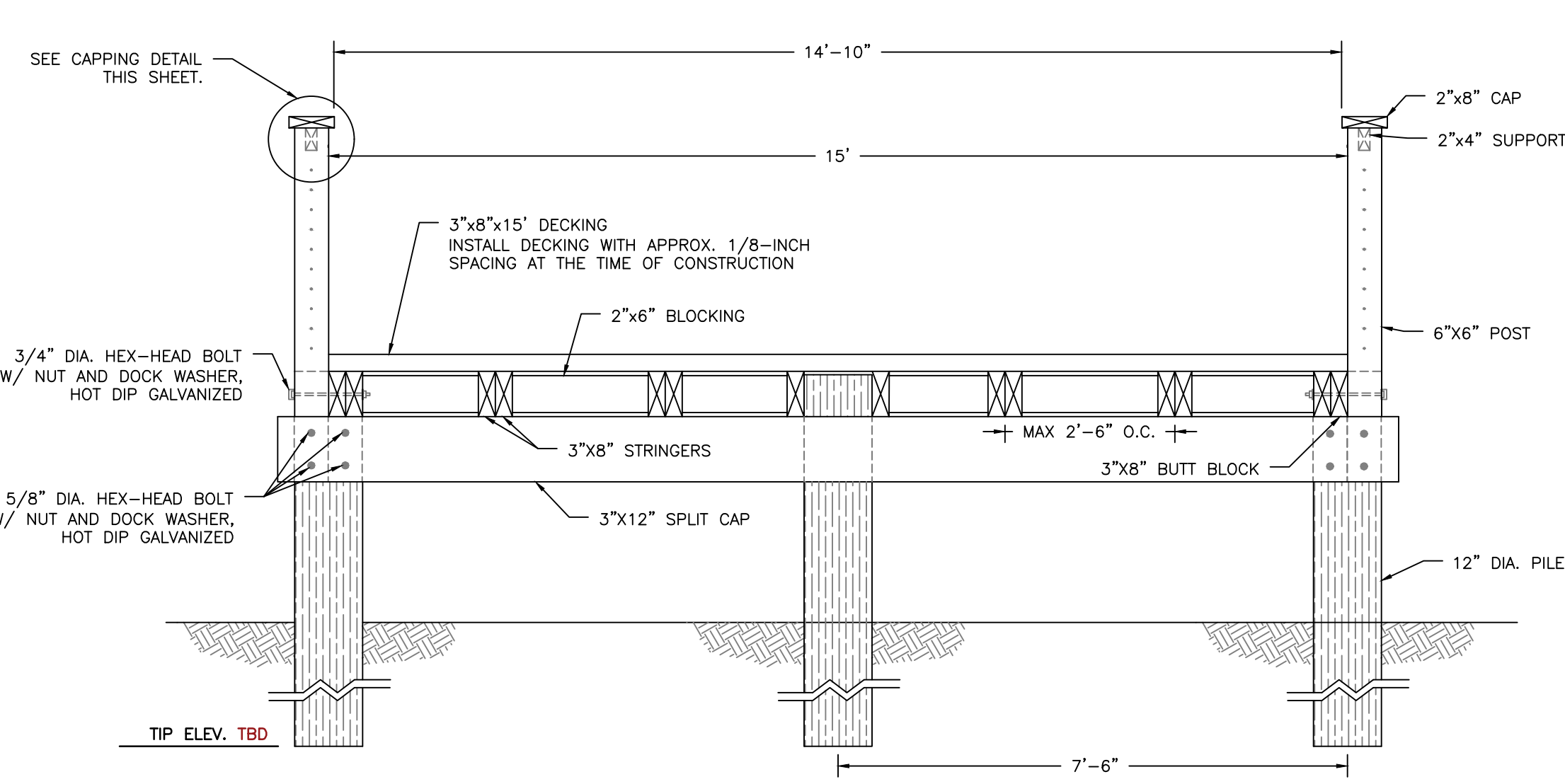
BOARDWALK RAMP-PARKING LOT INTERFACE SIDE VIEW
SCALE: 1" = 2'



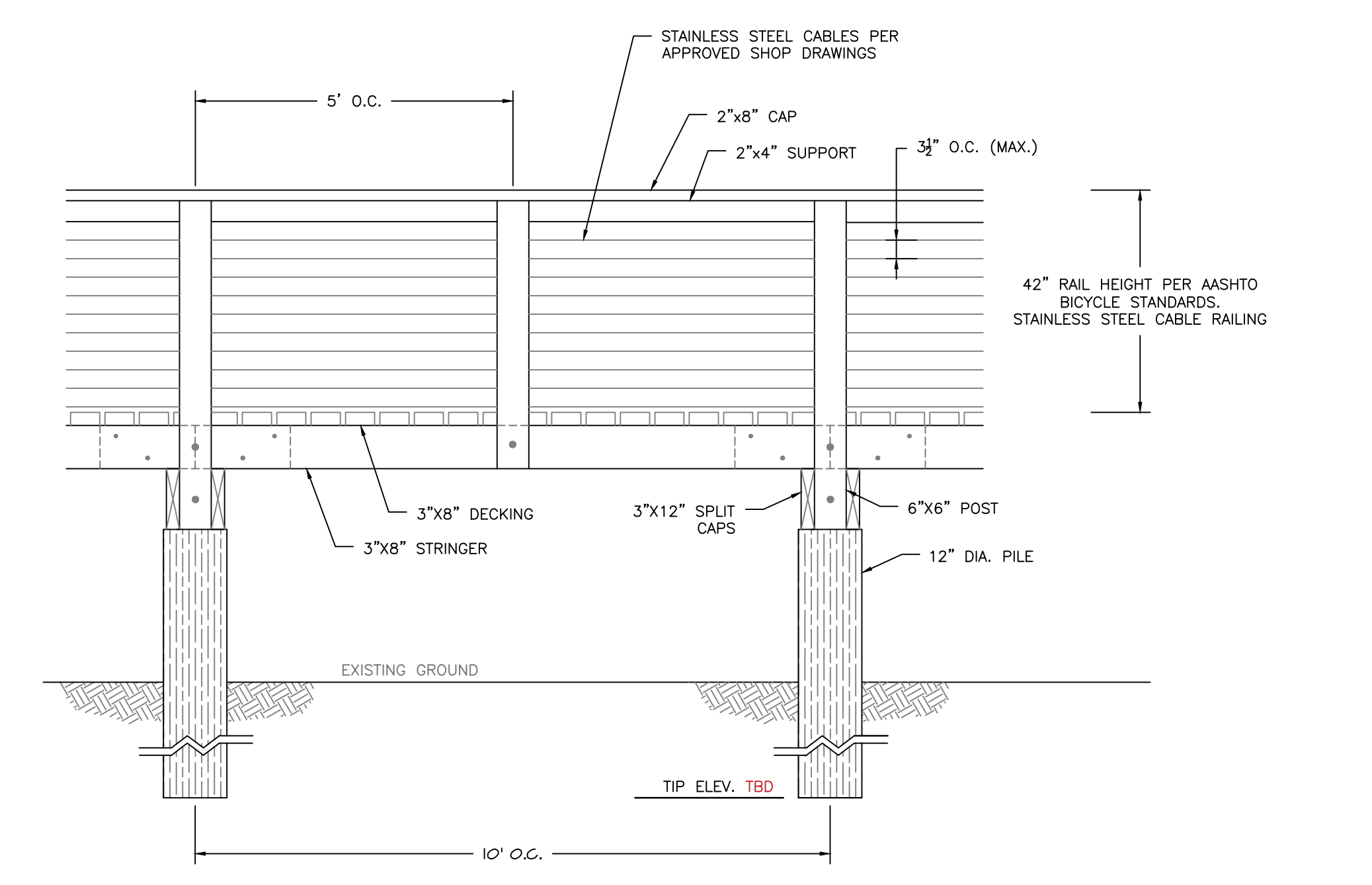
BOARDWALK RAMP-GROUND INTERFACE SIDE VIEW
SCALE: 1" = 2'



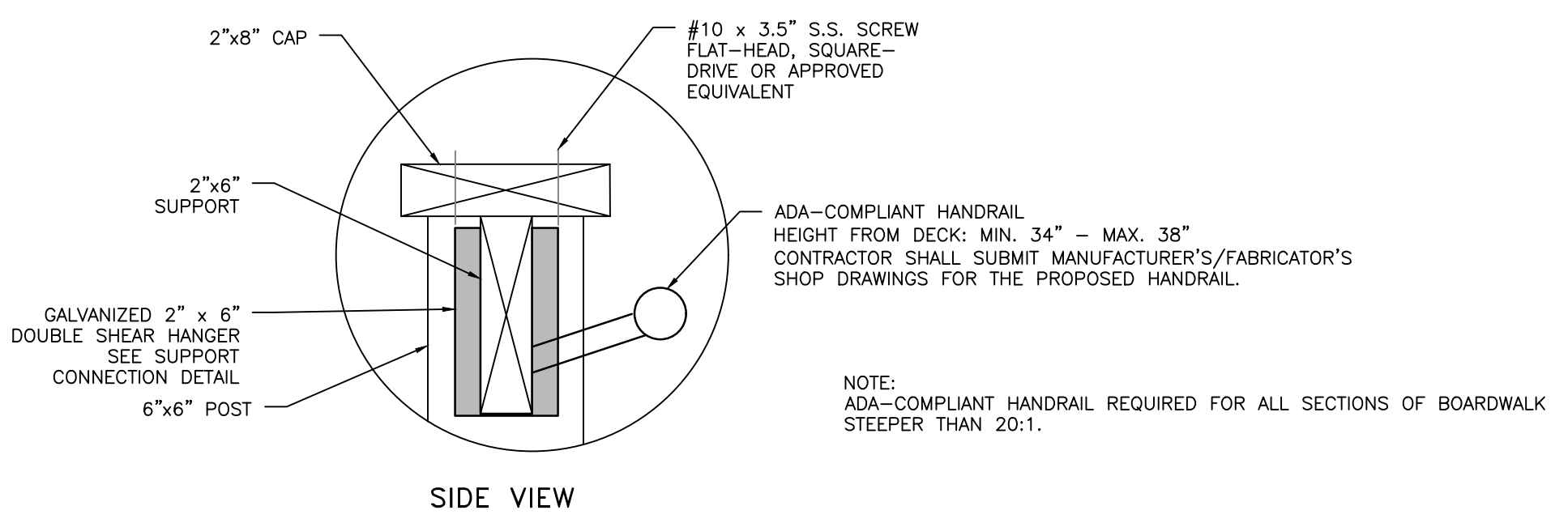
BOARDWALK STAIRS SIDE VIEW
SCALE: 1" = 2'



ACCESS BRIDGE CROSS SECTION
SCALE: 1" = 2'



ACCESS BRIDGE SIDE VIEW
SCALE: 1" = 2'



ADA HANDRAIL DETAIL
NOT TO SCALE

ADA COMPLIANCE NOTE
IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-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 RAMP, AND TRAFFIC CONTROL DEVICES SHALL BE DESIGNED IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY PEDESTRIAN FACILITY STANDARDS PF1 - PF29

- NOTES:**
- ALL PILES SHALL BE 12" DIA. TIMBER TYPE 'B' AND TREATED W/ 2.5 CCA
 - ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP
2.1. STRUCTURAL LUMBER SHALL BE TREATED W/ 1.0 CCA
2.2. DECKING, POSTS, & CAPS SHALL BE TREATED W/ 0.06 CA-C
 - ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED (GALV) OR 305 STAINLESS STEEL (S.S.)
 - ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK
 - INSTALL DECKING WITH APPROXIMATELY 1/8-INCH SPACING AT THE TIME OF CONSTRUCTION.

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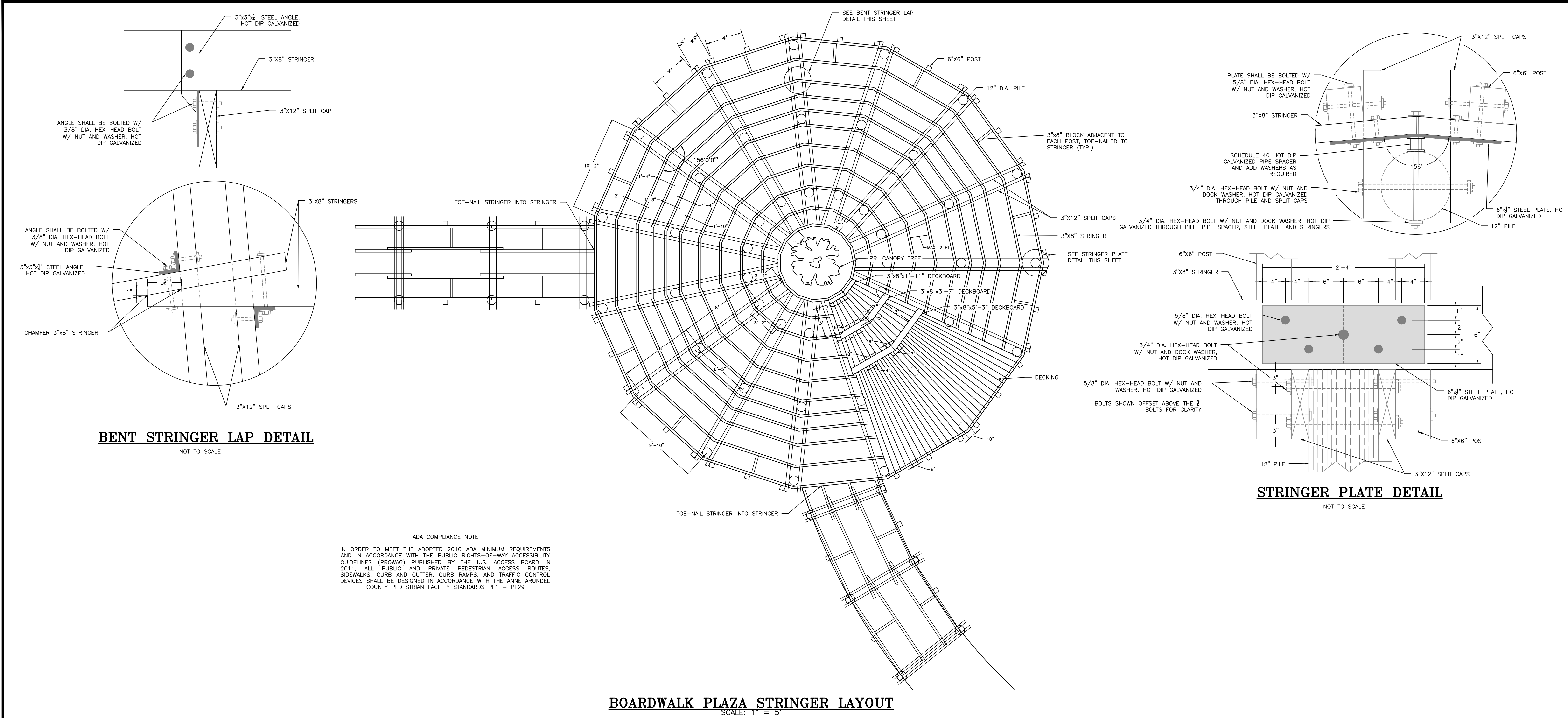
PROFESSIONAL CERTIFICATION

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: 04/20/2028.

JONAS & ANNE CATHARINE GREEN PARK
COASTAL RESILIENCE PROJECT
BOARDWALK DETAILS

REVISIONS		DESIGNED BY:	7/29/26
DATE	DESCRIPTION	DRAWN BY:	7/29/26
		CHECKED BY:	7/29/26
		SHEET NO.	10 OF 17

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NOTES

- ALL PILES SHALL BE 12" DIA. TIMBER TYPE 'B' AND TREATED W/ 2.5 CCA
- ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP AND TREATED WITH:
 - STRUCTURAL LUMBER - 1.0 CCA
 - DECKING - 0.06 CA-C
- ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK.
- ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED (GALV.) OR 305 STAINLESS STEEL (S.S.)
- PILES SHALL BE DRIVEN TO A MINIMUM 15' INTO FIRM SOIL AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS, MINIMUM. THE CONTRACTOR SHALL DRIVE 3 TEST PILES WITH A DROP HAMMER AT THE LOCATIONS SHOWN ON THE DETAIL PRIOR TO ORDERING PILES FOR THE PROJECT. THE VERTICAL BEARING CAPACITY SHALL BE DETERMINED BY THE ENR FORMULA. THE PILE TEST RESULTS SHALL BE USED TO DETERMINE THE LENGTHS OF THE PILES FOR THE PROJECT THAT WILL ACHIEVE THE MINIMUM BEARING CAPACITY NOTED ABOVE. THE CONTRACTOR SHALL FURNISH THE TEST PILE RESULTS TO THE OWNER AND/OR HIS AGENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PILES FOR THE PROJECT.
- PILES SHALL HAVE SUFFICIENT LENGTHS AND ADEQUATE BEARING AS DETERMINED BY THE TEST PILES. THE CONTRACTOR SHALL FURNISH THE OWNER AND/OR HIS AGENT WITH THE RECORD OF EACH DAY'S PILE DRIVING FOR REVIEW.
- INSTALL DECKING WITH APPROXIMATELY 1/8-INCH SPACING AT THE TIME OF CONSTRUCTION.

PROFESSIONAL CERTIFICATION

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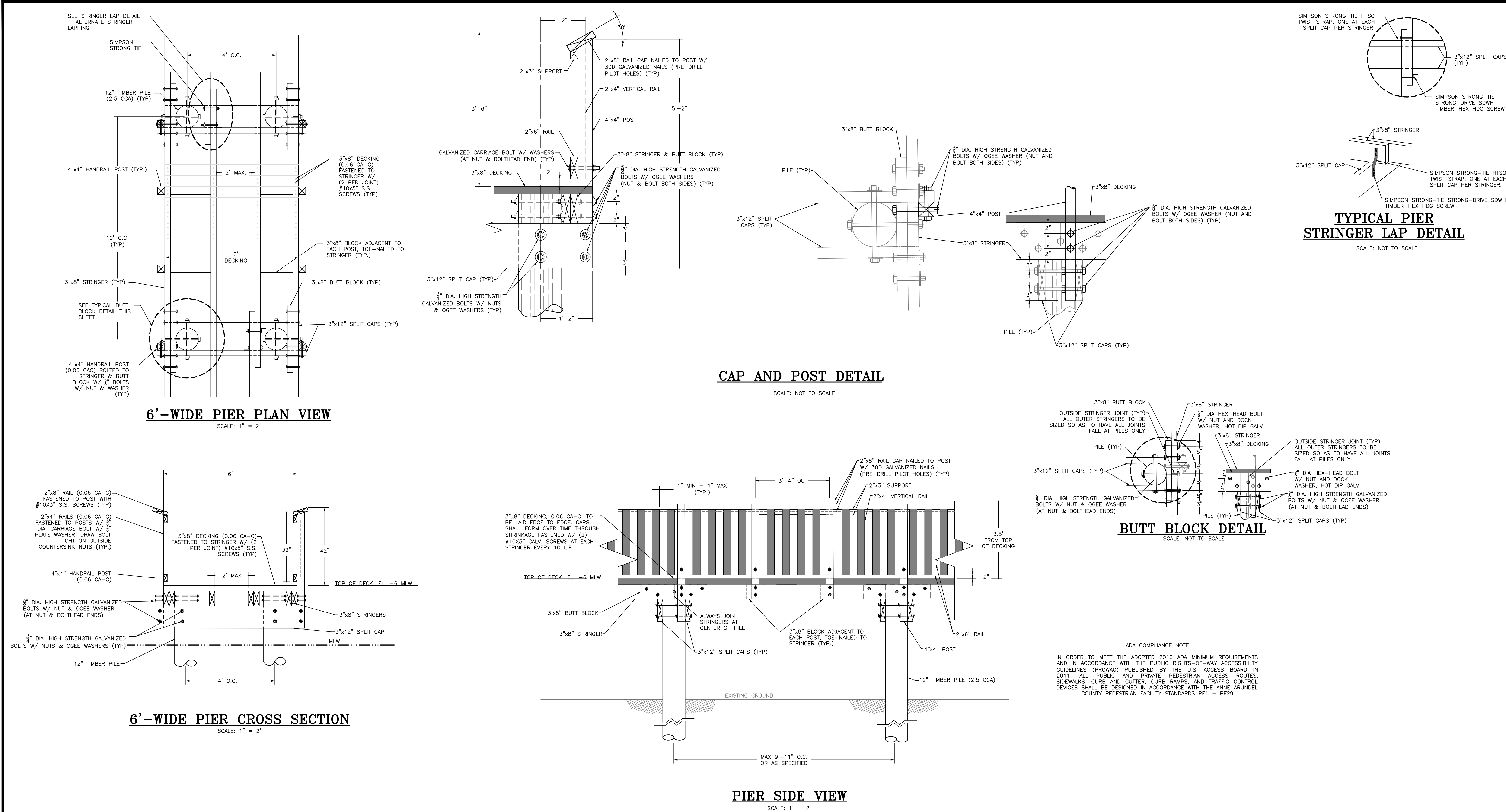
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JONAS & ANNE CATHARINE GREEN PARK

COASTAL RESILIENCE PROJECT

BOARDWALK PLAZA DETAILS

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			CHECKED BY:	AJ
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NOTES:

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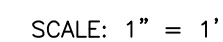
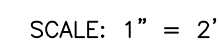
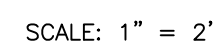
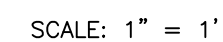
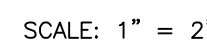
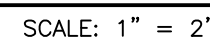
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7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9405
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PROFESSIONAL CERTIFICATION

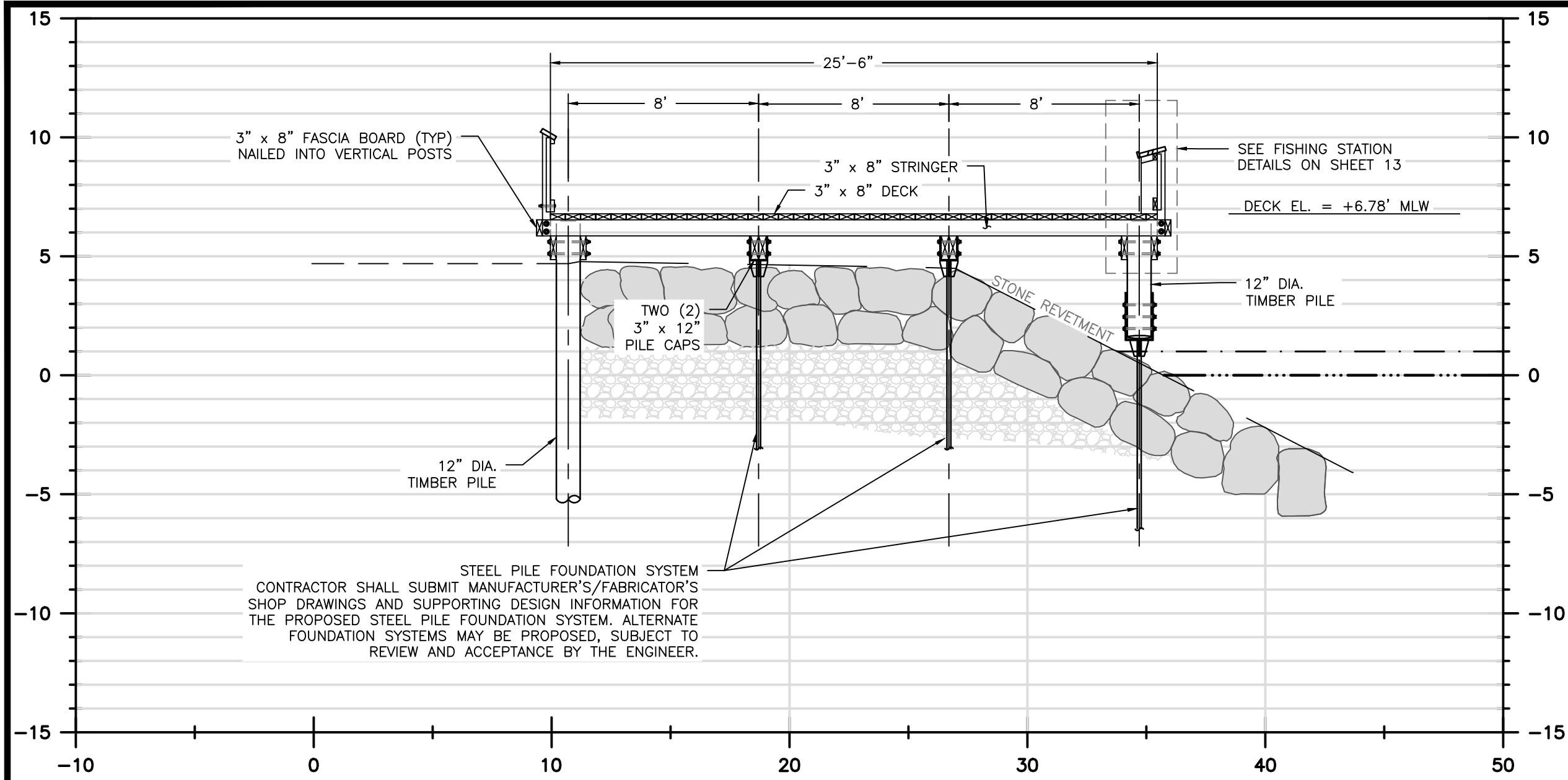
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 21134, EXPIRATION DATE: 04/20/2028.

JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT PIER DETAILS			
REVISIONS			
DATE	BY	DESCRIPTION	
			DESIGNED BY: JH 7/29/26
			DRAWN BY: JH 7/29/26
			CHECKED BY: AJ 7/29/26
			SHEET NO. 12 OF 17

30% DESIGN



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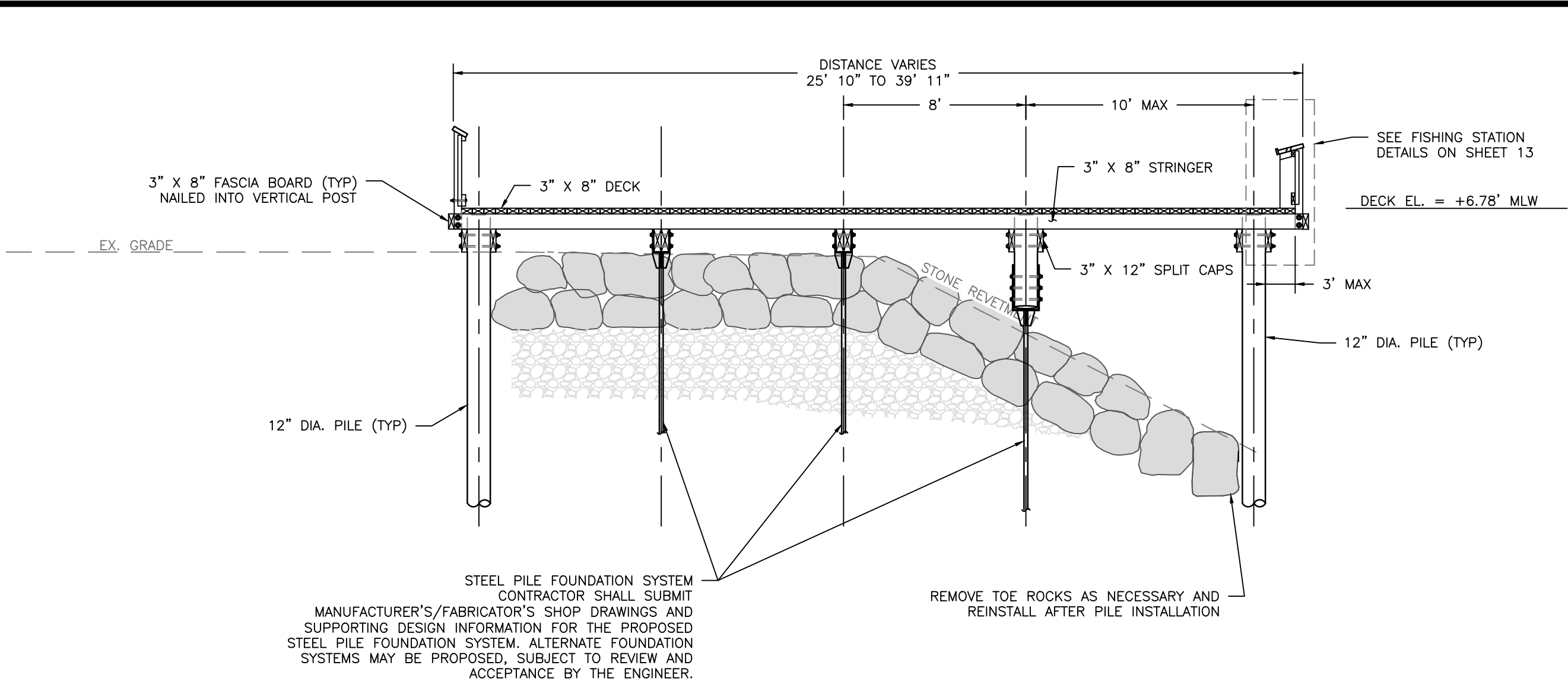


CROSS-SECTION G
SCALE: 1" = 5'

ADA COMPLIANCE NOTE
IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-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 PF1 - PF29

NOTES

- ALL DIMENSIONAL LUMBER SHALL BE NO.1 SYP AND TREATED WITH:
 - STRUCTURAL LUMBER - 1.0 CCA
 - DECKING - 0.06 CA-C
- ALL EXPOSED HARDWARE SHALL BE COUNTERSUNK.
- ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED (GALV.)
- PILES SHALL BE DRIVEN TO A MINIMUM 15' INTO FIRM SOIL AND TO ACHIEVE A VERTICAL BEARING CAPACITY OF 10 TONS, MINIMUM. THE CONTRACTOR SHALL DRIVE 3 TEST PILES WITH A DROP HAMMER AT THE LOCATIONS SHOWN ON THE DETAIL PRIOR TO ORDERING PILES FOR THE PROJECT. THE VERTICAL BEARING CAPACITY SHALL BE DETERMINED BY THE ENR FORMULA. THE PILE TEST RESULTS SHALL BE USED TO DETERMINE THE LENGTHS OF THE PILES FOR THE PROJECT THAT WILL ACHIEVE THE MINIMUM BEARING CAPACITY NOTED ABOVE. THE CONTRACTOR SHALL FURNISH THE TEST PILE RESULTS TO THE OWNER AND/OR HIS AGENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE PILES FOR THE PROJECT.
- PILES SHALL HAVE SUFFICIENT LENGTHS AND ADEQUATE BEARING AS DETERMINED BY THE TEST PILES. THE CONTRACTOR SHALL FURNISH THE OWNER AND/OR HIS AGENT WITH THE RECORD OF EACH DAY'S PILE DRIVING FOR REVIEW.



EAST SIDE FISHING BOARDWALK SECTION
SCALE: 1" = 5'

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: 04/20/2028.

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RESILIENCE AUTHORITY
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REVISIONS			DESIGNED BY: JH		7/29/26	
DATE	BY	DESCRIPTION	DRAWN BY: JH		7/29/26	
			CHECKED BY: AJ		7/29/26	
			SHEET NO.		14 OF 17	

\\NAS-57401\JONAS & ANNE CATHARINE GREEN PARK COASTAL\CAD Files\Sheet Files\8_57401.D07



- SCALE: 1" = 2'

IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS
AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-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 PF1 – PF29

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REVISIONS			DESIGNED BY:	JH	7/29/26
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			SHEET NO.		15 OF 17

PLANTING SCHEDULE												
PLANTING ZONE	TOTAL AREA (SF)	COMMON NAME	SCIENTIFIC NAME	INDICATOR STATUS	TYPE	SIZE	DISTRIBUTION	AVG SPACING (FT)	QUANTITY	CREDIT AREA (SF PER PLANT)	TOTAL CREDIT AREA (SF)	DESCRIPTION
LOW MARSH	4,556	LOW MARSH CORDGRASS	SPARTINA ALTERNIFLORA	OBL	HERBACEOUS	PLUG	RANDOM	1	4,556	2	9,112	MHW FLATS
HIGH MARSH & WEIR	16,350	SALTGRASS	DISTICHUS SPICATA	FACW	HERBACEOUS	PLUG	RANDOM, UPPER ZONE, PROTECTED AREAS	1	3270	2	6540	MHW TO EL. +3, AND WITHIN THE COBBLE RIFLE-WEIR FOOTPRINT
		SWITCHGRASS	PANICUM VIRGATUM	FAC	HERBACEOUS	PLUG / #1	RANDOM, UPPER ZONE, PROTECTED AREAS	1	3270	2	6540	
		BIG CORDGRASS	SPARTINA CYNOSUROIDES	OBL	HERBACEOUS	PLUG	RANDOM, LOWER ZONE	1	3270	2	6540	
		CHAIRMAKER'S BULRUSH	SCHOENOPLECTUS AMERICANUS	OBL	HERBACEOUS	PLUG	RANDOM, LOWER ZONE	1	3270	2	6540	
UPPER BREAKWATER & TOMBOLO	3,585	HIGH MARSH CORDGRASS	SPARTINA PATENS	FACW	HERBACEOUS	PLUG	RANDOM, FULL FOOTPRINT	1	3,270	2	6,540	>3 FT MLW, WITHIN THE BREAKWATER & TOMBOLO FOOTPRINT AS DESIGNATED ON PLANS
		SEASIDE GOLDENROD	SOLIDAGO SEMPERVIRENS	FAC	HERBACEOUS	QT	RANDOM, FULL FOOTPRINT	1	1,195	2	2,390	
		LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	FACU	HERBACEOUS	PLUG / #1	RANDOM, PROTECTED AREAS	1	1195	2	2390	
		VIRGINIA ROSE	ROSA VIRGINIANA	FAC	SMALL SHRUB	#1-#2	RANDOM, PROTECTED AREAS	3	133	25	3,325	
COASTAL TRANSITION	11,631	SEASIDE GOLDENROD	SOLIDAGO SEMPERVIRENS	FAC	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN; UPPER SHORELINE TRANSITION AND EXPOSED SLOPES	1	970	2	1940	AREAS ABOVE ELEVATION 3 FT MLW
		LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	FACU	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN; WELL-DRAINED UPPER SLOPES	1	970	2	1940	
		SWITCHGRASS	PANICUM VIRGATUM	FAC	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN TO PARTIAL SUN; AVERAGE TO MOIST SOILS	1	970	2	1940	
		MARYLAND WILD SENNA	SENNA MARILANDICA	FAC	HERBACEOUS	PLUG / #1	RANDOM, TRANSITION ZONE; FULL SUN TO PARTIAL SUN; AVERAGE TO MOIST SOILS	1	679	2	1358	
		PARTRIDGE PEA	CHAMAECRISTA FASCIOLATA	FACU	HERBACEOUS	PLUG	RANDOM, FULL SUN; WELL-DRAINED TRANSITION AREAS	1	291	2	582	
		VIRGINIA ROSE	ROSA VIRGINIANA	FAC	SMALL SHRUB	#1-#2, 18"	RANDOM, FULL SUN TO PARTIAL SUN; UPPER SLOPES AND WOODLAND EDGE	3	108	25	2700	
		NEW JERSEY TEA	CEANOTHUS AMERICANUS	FACU	SMALL SHRUB	#1, 18"	RANDOM, FULL SUN; WELL-DRAINED UPPER SLOPES	3	108	25	2700	
		NORTHERN BAYBERRY	MORELLA PENSYLVANICA	FAC	LARGE SHRUB	#1-#3, 4'	RANDOM, FULL SUN; UPPER SLOPES AND TRANSITION AREAS	5	39	50	1950	
		GROUNDSEL BUSH	BACCHARIS HALIMIFOLIA	FAC	LARGE SHRUB	#1-#3, 4'	RANDOM, FULL SUN; LOWER TRANSITION AREAS AND MOIST MARGINS	5	39	50	1950	
		EASTERN REDCEDAR	JUNIPERUS VIRGINIANA	FACU	UNDERSTORY TREE	3/4" CALIP., 6'	RANDOM, FULL SUN; UPPER SLOPES AND DRIEST AREAS	8	16	75	1200	
		SWAMP WHITE OAK	QUERCUS BICOLOR	FACW	CANOPY TREE	3/4" CALIP., 6'	RANDOM, TRANSITION ZONE; LOWER SLOPES AND SEASONALLY MOIST SOILS	14	5	100	500	
		BLACK GUM	NYSSA SYLVATICA	FAC	CANOPY TREE	3/4" CALIP., 6'	RANDOM, PARTIAL SUN; LOWER SLOPES AND SEASONALLY MOIST SOILS	14	5	100	500	
LOWER TIDAL POOLS	445	SOFTSTEM BULRUSH	SCHOENOPLECTUS TABERNAEMONTANI	OBL	HERBACEOUS	PLUG	RANDOM, POOL BOTTOM AND PERMANENTLY WETTED AREAS (+1 TO +1.5' MLW)	1	89	2	178	WITHIN THE POOL FOOTPRINT, EL. +1 TO +3' MLW
		CHAIRMAKER'S BULRUSH	SCHOENOPLECTUS AMERICANUS	OBL	HERBACEOUS	PLUG	RANDOM, LOWER POOL MARGINS AND SHALLOW SHELVES (+1.25 TO +2' MLW)	1	89	2	178	
		BIG CORDGRASS	SPARTINA CYNOSUROIDES	OBL	HERBACEOUS	PLUG	RANDOM, MID POOL SLOPES AND PERIODICALLY INUNDATED MARGINS (+1.5 TO +2.5' MLW)	1	89	2	178	
		HIGHMARSH CORDGRASS	SPARTINA PATENS	FACW	HERBACEOUS	PLUG	RANDOM, UPPER POOL MARGINS AND BENCHES (+2.25 TO +3' MLW)	1	89	2	178	
		SALTGRASS	DISTICHUS SPICATA	FACW	HERBACEOUS	PLUG	RANDOM, UPPER POOL MARGINS AND HIGHEST BENCHES (+2.5 TO +3' MLW)	1	89	2	178	
UPPER FRESHWATER POOLS	1000	SOFT RUSH	JUNCUS EFFUSUS	FACW	HERBACEOUS	PLUG	RANDOM, POOL BOTTOM AND LOWER MARGINS; SEASONALLY SATURATED SOILS	1	143	2	286	STORMWATER-FED OR GROUNDWATER-FED DEPRESSIONS WITH LITTLE TO NO TIDAL INFLUENCE
		BLUEFLAG IRIS	IRIS VERSICOLOR	OBL	HERBACEOUS	PLUG	RANDOM, SHALLOW POOL MARGINS AND LOWER SIDE SLOPES	1	143	2	286	
		TUSSOCK SEDGE	CAREX STRICTA	OBL	HERBACEOUS	PLUG	RANDOM, POOL BOTTOM AND SATURATED MARGINS	1	143	2	286	
		CARDINAL FLOWER	LOBELIA CARDINALIS	FACW	HERBACEOUS	PLUG	RANDOM, LOWER TO MID POOL SLOPES; MOIST SOILS	1	143	2	286	
		WHITE TURTLEHEAD	CHELONE GLABRA	OBL	HERBACEOUS	PLUG	RANDOM, POOL MARGINS AND SATURATED UPPER BENCHES	1	143	2	286	
		SENSITIVE FERN	ONOCLEA SENSIBILIS	FACW	HERBACEOUS	PLUG	RANDOM, SHADED POOL MARGINS AND MOIST UPPER SLOPES	1	143	2	286	
		MARSH HIBISCUS	HIBISCUS MOSCHEUTOS	OBL	HERBACEOUS	PLUG	RANDOM, SUNNY POOL MARGINS AND UPPER SATURATED BENCHES	1	143	2	286	
WEIRS & VEGETATED ARMORED SPILLWAY	8041	BLUEFLAG IRIS	IRIS VERSICOLOR	OBL	HERBACEOUS	PLUG	RANDOM, POOL MARGINS AND COBBLE PLANTING POCKETS; FULL SUN TO PARTIAL SHADE	1	805	2	1610	WITHIN THE ROCKY WEIR FOOTPRINTS AND THE VEGETATED ARMORED SPILLWAY
		SOFT RUSH	JUNCUS EFFUSUS	FACW	HERBACEOUS	PLUG	RANDOM, LOWER POOL MARGINS AND COBBLE PLANTING POCKETS; FULL SUN TO PARTIAL SHADE	1	805	2	1610	
		TUSSOCK SEDGE	CAREX STRICTA	OBL	HERBACEOUS	PLUG	RANDOM, SATURATED POOL MARGINS AND COBBLE PLANTING POCKETS	1	805	2	1610	
		CARDINAL FLOWER	LOBELIA CARDINALIS	FACW	HERBACEOUS	PLUG	RANDOM, MOIST POOL MARGINS AND COBBLE PLANTING POCKETS; FULL SUN TO PARTIAL SHADE	1	805	2	1610	
		CHRISTMAS FERN	POLYSTICHUM ACROSTICHOIDES	FACU	HERBACEOUS	PLUG	RANDOM, SHADED WEIR MARGINS AND ADJACENT BERMS	1	805	2	1610	
		WHITE TURTLEHEAD	CHELONE GLABRA	OBL	HERBACEOUS	PLUG	RANDOM, SHADED POOL MARGINS AND SATURATED PLANTING POCKETS	1	805	2	1610	
		DENSE BLAZING STAR	LIATRIS SPICATA	FAC	HERBACEOUS	PLUG	RANDOM, UPPER COBBLE PLANTING POCKETS AND ADJACENT BERMS; FULL SUN	1	805	2	1610	
		SWITCHGRASS	PANICUM VIRGATUM	FAC	HERBACEOUS	PLUG	RANDOM, UPPER COBBLE PLANTING POCKETS AND ADJACENT BERMS	1	805	2	1610	
		GOLDEN RAGWORT	PACKERA AUREA	FACW	HERBACEOUS	PLUG	RANDOM, SHADED MOIST BERMS AND UPPER POOL MARGINS	1	805	2	1610	
		LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	FACU	HERBACEOUS	PLUG	RANDOM, UPPER BERMS AND WELL-DRAINED MARGINS; FULL SUN	1	805	2	1610	
		SWITCHGRASS	PANICUM VIRGATUM	FAC	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN TO PARTIAL SUN; BERMS AND UPPER SLOPES	1	100	2	200	
SPSC TRANSITION	1000	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	FACU	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN; WELL-DRAINED BERM CRESTS	1	100	2	200	BERMS AND TRANSITION AREAS SURROUNDING ROCK WEIRS, POOLS, AND CASCADES, ELEVATIONS ABOVE +3 MLW
		MARYLAND WILD SENNA	SENNA MARILANDICA	FAC	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN TO PARTIAL SUN; AVERAGE TO MOIST SOILS	1	100	2	200	
		DENSE BLAZING STAR	LIATRIS SPICATA	FAC	HERBACEOUS	PLUG / #1	RANDOM, FULL SUN; UPPER BERMS AND WELL-DRAINED SLOPES	1	100	2	200	
		WHITE WOOD ASTER	EURYBIA DIVARICATA	FACU	HERBACEOUS	PLUG	RANDOM, PARTIAL SHADE; WOODLAND EDGE AND SHADED BERMS	1	100	2	200	
		CHRISTMAS FERN	POLYSTICHUM ACROSTICHOIDES	FACU	HERBACEOUS	PLUG	RANDOM, SHADED BERMS AND WOODLAND EDGE	1	100	2	200	
		VIRGINIA ROSE	ROSA VIRGINIANA	FAC	SMALL SHRUB	#1-#2, 18"	RANDOM, FULL SUN TO PARTIAL SUN; BERM SLOPES	3	12	25	300	
		NEW JERSEY TEA	CEANOTHUS AMERICANUS	FACU	SMALL SHRUB	#1, 18"	RANDOM, FULL SUN; WELL-DRAINED BERM CRESTS	3	12	25	300	
		SPICEBUSH	LINDERA BENZOIN	FACW	LARGE SHRUB	#1-#3, 3'	RANDOM, PARTIAL SHADE; MOIST WOODLAND EDGE	5	4	50	200	
		BLACK GUM	NYSSA SYLVATICA	FAC	CANOPY TREE	3/4" CALIP., 6'	RANDOM, LOWER BERMS AND MOIST SWALES	14	1	100	100	

GENERAL PLANTING NOTES

- ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMEN, INC. STANDARDS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UTILITY LOCATIONS PRIOR TO PLANTING MATERIAL. IF CONFLICTS ARISE, BAYLAND, INC. MUST BE NOTIFIED PRIOR TO ANY GROUND BREAKING.
- MARSH PLANTING WILL BE ACCOMPLISHED BETWEEN APRIL 1 AND JUNE 30 (SPRING PLANTING SEASON) OR AUGUST 15 AND OCTOBER 15 (FALL PLANTING SEASON).
- SHRUBS SHALL BE PLANTED FROM MARCH 1 TO JUNE 15 AND FROM SEPTEMBER 15 TO DECEMBER 15. PLANTING MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDING THERE IS NO FROST IN THE GROUND AND FROST FREE TOPSOIL PLANTING MIXTURES ARE USED.
- NO CONTAINER-GROWN MATERIAL SHALL BE PLANTED IF NOT ACCLIMATED TO THE CURRENT WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR GENERAL MAINTENANCE INCLUDING WATERING.
- ALL PLANTING MATERIAL AND PLANTING METHODS SHALL CONFORM TO CONSTRUCTION SPECIFICATIONS.
- DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE SHALL BE STABILIZED PER THE DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT.
- IF A MINIMUM COVERAGE OF 85% IS NOT ACHIEVED IN THE MARSH PLANTING AREA AFTER THE SECOND GROWING SEASON, A REINFORCEMENT PLANTING WILL BE REQUIRED.

SEQUENCE OF IMPLEMENTATION

- 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.
- REMOVE\ELIMINATE TURF GRASS AND TILL UNFORESTED AREAS TO BE PLANTED TO A DEPTH OF 12 INCHES.
- USE TREE SHELTER TUBES WITH MESH TOPS FOR SEEDLINGS PLANTING TO REDUCE ANIMAL DAMAGE.
- MULCH AROUND LANDSCAPING STOCK TO REDUCE COMPETITION FROM INVASIVE SPECIES.
- MONITOR THE PLANTINGS OFTEN TO REDUCE PLANT STRESS SUCH AS WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, AND DISEASE.
- 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 PROTECTION SIGNAGE.

BUFFER MANAGEMENT & PROTECTION STANDARDS

- 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.
- 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 DESCRIBED IN THIS PLAN.
- NEW LAWN AREAS SHALL NOT BE CREATED WITHIN THE BUFFER OR EXPANDED BUFFER UNLESS SPECIFICALLY ADDRESSED IN THIS BUFFER MANAGEMENT PLAN.
- 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

- 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.
- 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.
- SPECIES HAVE BEEN SELECTED BASED ON AN ANALYSIS OF SURROUNDING NATIVE FOREST AND DEVELOPED WOODLAND COVER.
- UNLESS SPECIFIC PLANTING LOCATIONS ARE SHOWN, ALL WOODY PLANTINGS SHALL BE INSTALLED IN A NATURALIZED LAYOUT TO SIMULATE NATURAL PATTERNS OF DISTRIBUTION AND GROWTH.
- THE QUANTITY OF ANY SINGLE SPECIES DOES NOT EXCEED 20 PERCENT OF THE OVERALL PLANTING.

MONITORING & SURVIVAL REQUIREMENTS

- PLANTINGS SHALL BE MONITORED TWICE A YEAR FOR A PERIOD OF TWO YEARS AFTER PLANT INSTALLATION.
- MONITORING SHALL BE PERFORMED ONCE DURING APRIL/MAY AND ONCE AUGUST/SEPTEMBER DURING EACH MONITORING YEAR.
- 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.
- 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.
- THE REQUIREMENT FOR REPLACEMENT PLANTINGS MAY EXTEND THE MONITORING PERIOD BEYOND 2-YEARS.

MAINTENANCE REQUIREMENTS

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

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: 04/20/2028.

30% DESIGN

RESILIENCE

AUTHORITY

Annapolis and Anne Arundel County



Anne Arundel

RECREATION AND PARKS

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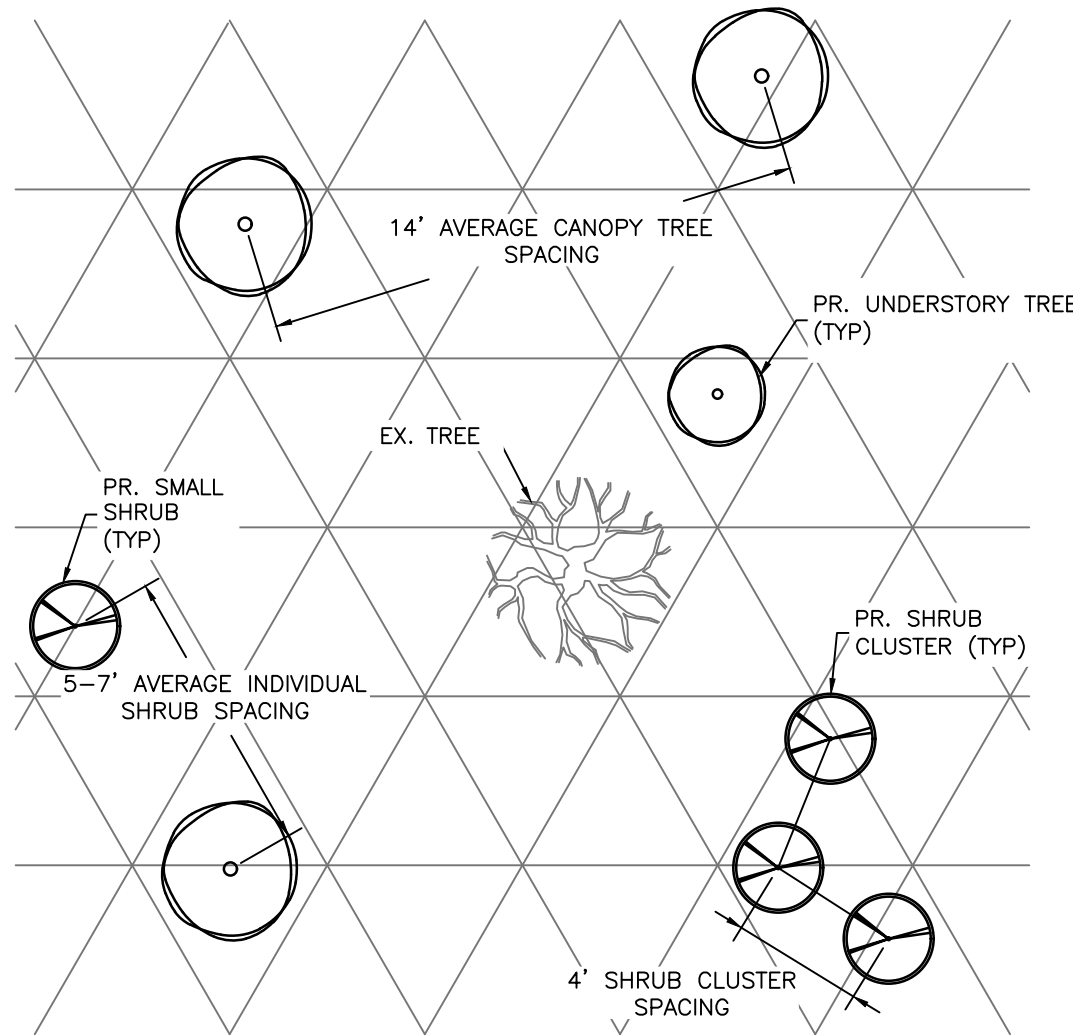
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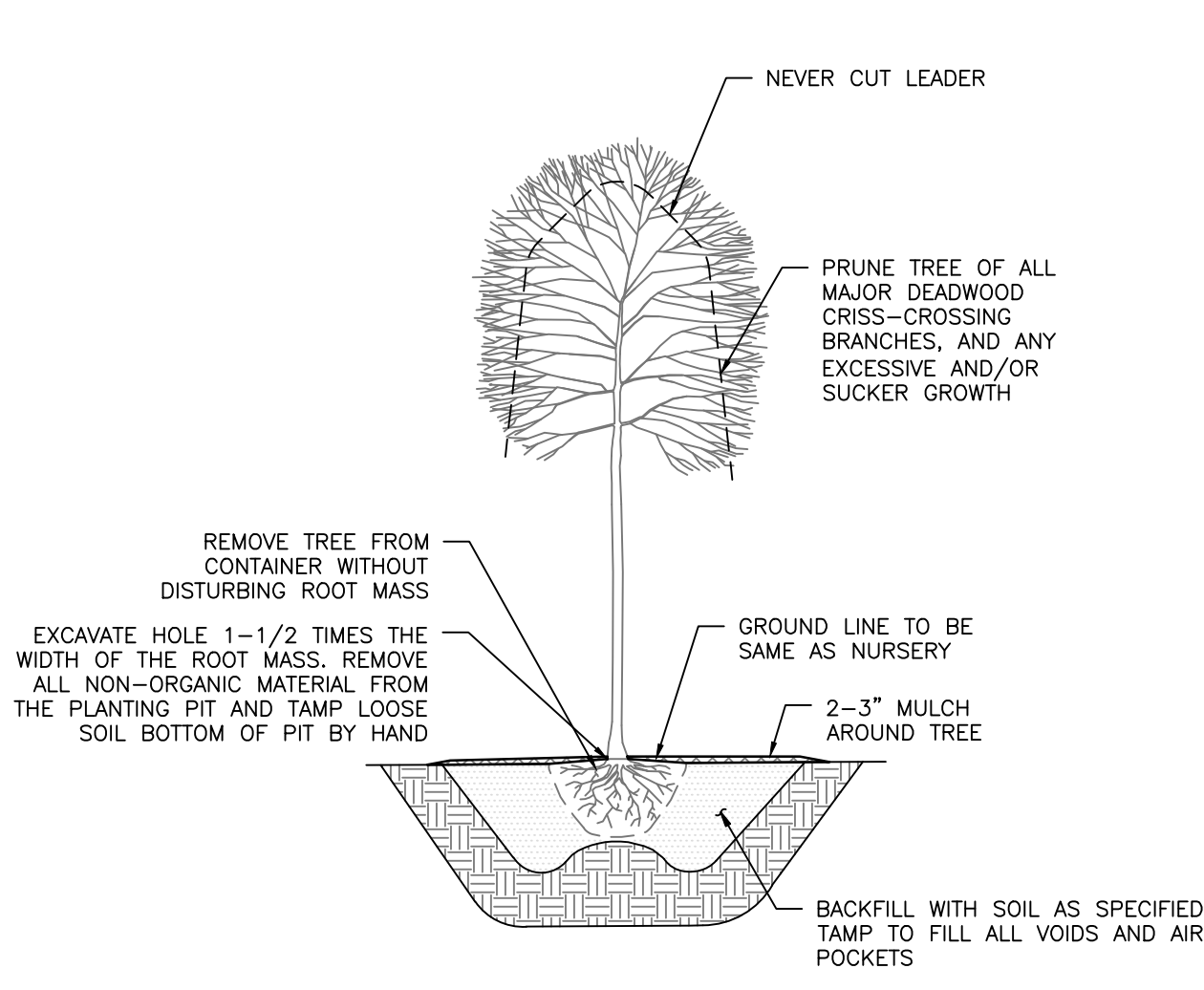
BAYLAND JOB NO. 8_57401

JONAS & ANNE CATHARINE GREEN PARK COASTAL RESILIENCE PROJECT PLANTING PLAN & DETAILS			
REVISIONS			
DATE	BY	DESCRIPTION	
			DESIGNED BY: JH 7/29/26
			DRAWN BY: JH 7/29/26
			CHECKED BY: AJ 7/29/26
			SHEET NO. 16 OF 17

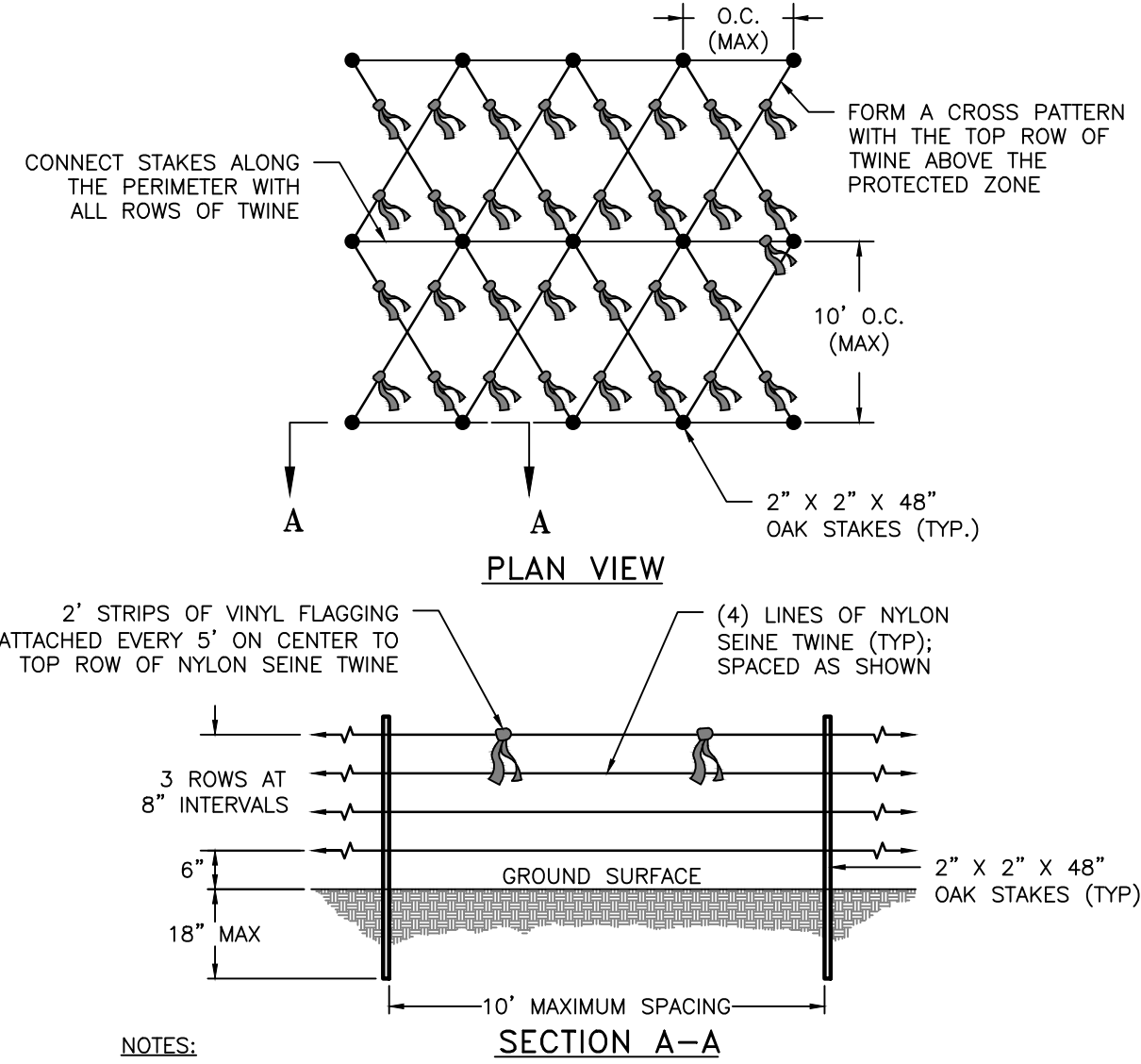
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TYPICAL 30'X30' NATURALIZED PLANTING DETAIL
NOT TO SCALE

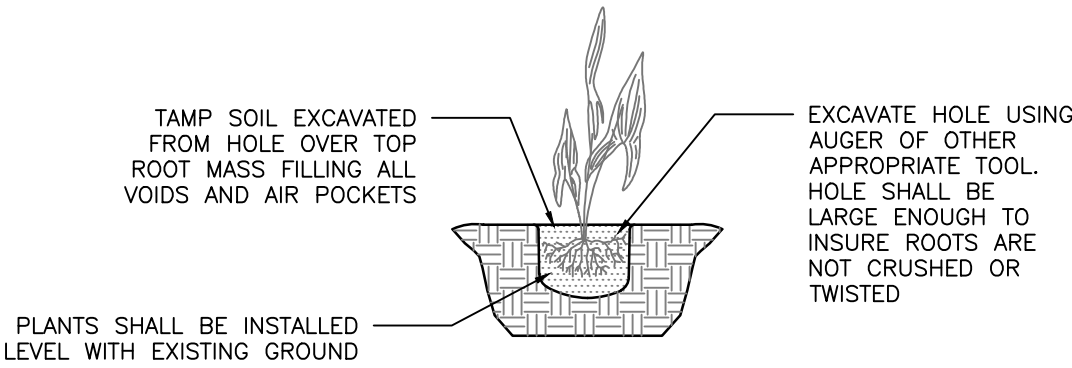


TREE PLANTING - CONTAINER GROWN
NOT TO SCALE

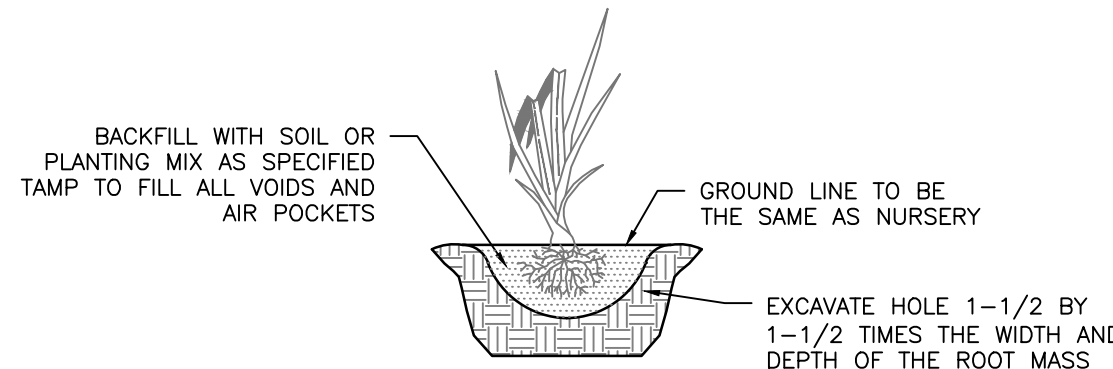


- NOTES:
- OAK STAKES SHALL BE SPACED A MAXIMUM OF 10' O/C. WITH A MINIMUM OF TWO ROWS OF STAKES INSTALLED ALONG THE INNER AND OUTER PERIMETERS OF THE PLANTING TERRACE.
 - THE SEINE NYLON TWINE SHALL BE STRUNG FROM EACH STAKE TO EVERY ADJACENT STAKE WITHIN THE SAME ROW AND ADJACENT ROWS TO FORM A CRISS-CROSS PATTERN.
 - THE FIRST ROW OF SEINE NYLON TWINE SHALL BE PLACED A MINIMUM OF 6" OFF THE GROUND SURFACE, WITH EACH SUBSEQUENT ROW 8" IN SEPARATION.
 - THE SEINE NYLON TWIN SHALL BE SECURELY FASTENED TO THE STAKE AT THE APPROPRIATE ELEVATION ON THE POST.
 - 2' STRIPS OF FLUORESCENT COLORED VINYL FLAGGING SHALL BE SECURELY FASTENED TO THE SEINE NYLON TWINE AT A MAXIMUM 5' O/C BETWEEN THE OAK STAKES. THE FLAGGING SHALL BE TIED TO THE SEINE NYLON TWINE IN THE MIDDLE TO PRODUCE TWO STREAMERS OF NYLON TWINE EACH APPROXIMATELY 12" IN LENGTH.
 - THE GOOSE EXCLUSION FENCING SHALL COMPLETELY ENCLOSE THE PLANTING TERRACE AND PREVENT GOOSE ACCESS TO THE WATER FROM LAND AND VISE VERSA.
 - THE FENCING MUST REMAIN IN PLACE UNTIL THE VEGETATION HAS HAD TIME TO BECOME ESTABLISHED. AFTER TWO GROWING SEASONS THE FENCING SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

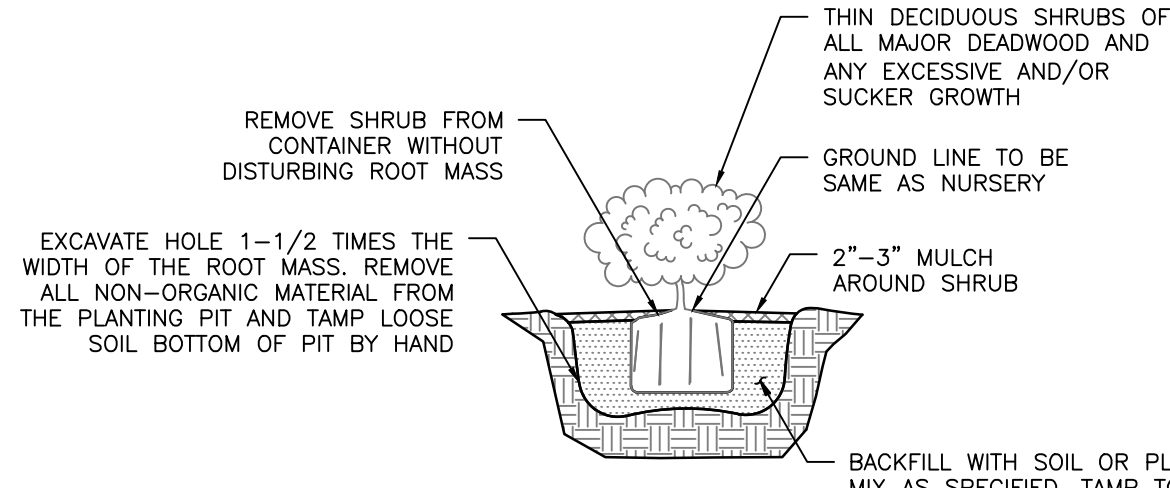
GOOSE EXCLUSION FENCE DETAIL
(TO BE INSTALLED ABOVE & AROUND SHORELINE PLANTINGS)
NOT TO SCALE



HERBACEOUS PLANTING - PLUG
NOT TO SCALE

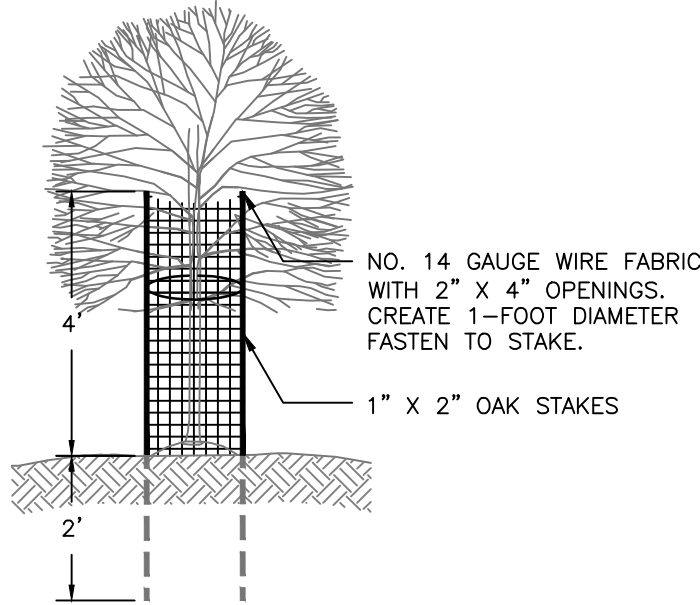


HERBACEOUS PLANTING - QUART
NOT TO SCALE



SHRUB PLANTING - CONTAINER GROWN
NOT TO SCALE

- NOTES:
- HEIGHT OF CAGE SHALL BE 4 FT. (MIN.)
 - CUT A 6 FT. SECTION OF WELDED WIRE FENCING WITH TREE IN CENTER.
 - CREATE ENCLOSURE BY FASTENING 11-INCH RELEASABLE CABLE TIES (ONE AT TOP AND ONE 6 IN. MIN. ABOVE THE GROUND AT EACH POST) TO EACH POST.
 - DO NOT DAMAGE TREE DURING INSTALLATION.
 - SUBSTITUTIONS MUST BE APPROVED BY THE FOREST CONSERVATION INSPECTOR.
 - CAGES TO BE REMOVED AT THE DIRECTION OF THE FOREST CONSERVATION INSPECTOR.
 - THREE (3) GALLON SHRUBS CAN BE PLANTED IN GROUPS OF TWO PER ENCLOSURE.



TREE/SHRUB PLANTING DEER PROTECTION
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: 04/20/2028.

30% DESIGN

REVISIONS			DESIGNED BY: JH	7/29/26
DATE	BY	DESCRIPTION		
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