

9/25/2026 19:25 AUTOCAD CIVIL3D 2024 C:\Users\WKSID\OneDrive\Documents\AECOM\WEN-AMER(US)-607282394-NPS TIMU KINGSLEY PLANTATION\Project Files\TIMU123456\CAD v2024 DRAWINGS\GENERAL COVER.dwg

LEGEND

- ?

Information

Food available

Picnic area

Campground
- Observation platform

Boat ramp

Canoe/kayak access

Self-guiding trail
- Salt marsh

Intracoastal Waterway

edges

Timucuan Ecological and Historic Preserve authorized boundary



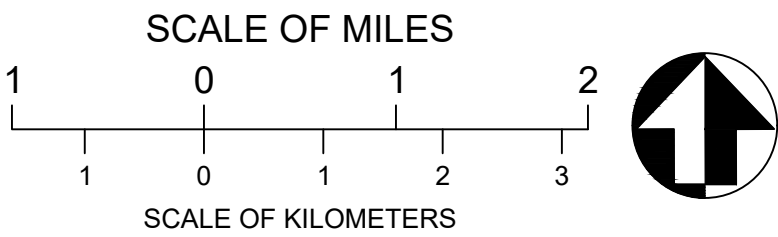
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TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE

PROJ. NO. 140P2026F0010



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A/E FIRM
PRIME/CIVIL/STRUCT:

AECOM
SAVANNAH, GA

Mark	Sheet	REVISION	Date	Initial

QUALITY DESIGN CERTIFICATION

- ☐ Prepared in Accordance with Design Development (Title I) Drawing No. _____ OR
- ☐ Variance from Design Development (Title I) Approved by Superintendent on _____ Date _____ OR
- ☐ Construction Drawing Not Preceded by Design Development (Title I)

Project Manager _____ Date _____



DESIGN DRAWINGS

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICES
DENVER SERVICE CENTER

TITLE OF PROJECT
**STABILIZE KINGSLEY PLANTATION
SHORELINE WITH SEAWALL EXTENSION**

LOCATION WITHIN PARK
KINGSLEY PLANTATION

NAME OF PARK
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE

REGION: SOUTHEAST COUNTY: DUVALL STATE: FLORIDA

DRAWING NO.
**006
191524**

SHEET
01
OF **27**

GENERAL NOTES

PROJECT

1. PROJECT NAME:

STABILIZE TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE - KINGSLEY PLANTATION SHORELINE WITH SEAWALL EXTENSION.

DRAWINGS

- 1. THE ISSUED PROJECT DRAWINGS ARE ONE COMPONENT OF THE CONSTRUCTION CONTRACT DOCUMENTS WHICH IN CONJUNCTION WITH THE PROJECT SPECIFICATION AND APPLICABLE CODES AND REGULATION ARE INTENDED TO COVER A COMPLETE PROJECT.
- 2. WHERE A DETAIL, SECTION, TYPICAL SECTION OR A NOTE IS SHOWN FOR ONE CONDITION, IT MUST APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OR DIRECTED OTHERWISE.
- 3. REFER TO DIMENSIONS SHOWN WHEN CONSTRUCTING WORK, DO NOT SCALE DRAWINGS.

SAFETY AND SECURITY

- 1. PRIOR TO COMMENCING WORK, THE CONTRACTOR MUST FURNISH, ERECT AND MAINTAIN ALL BARRICADES, FENCINGS, WARNING SIGNS AND MARKING FOR HAZARDS.
- 2. THE CONTRACTOR MUST CONTROL HIS OPERATIONS AND THOSE OF HIS SUBCONTRACTORS AND ALL SUPPLIERS TO ASSURE THE LEAST INCONVENIENCE TO THE PARK AND ITS VISITORS. UNDER ALL CIRCUMSTANCES SAFETY MUST BE THE MOST IMPORTANT CONSIDERATION.
- 3. THE CONTRACTOR MUST CONDUCT ALL OF ITS WORK IN A SAFE MANNER. ALL WORKS MUST BE PERFORMED IN ACCORDANCE WITH RULES AND REGULATIONS, PROCEDURES AND SAFE PRACTICES OF NPS, OSHA AND ALL OTHER GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE PROJECT.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND CONTROLLING ACCESS TO THE WORK AREA.

GENERAL NOTES

- 1. THE CONTRACTOR MUST FIELD CHECK AND VERIFY ALL ELEVATIONS, COORDINATES, DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE CONTRACTING OFFICER.
- 2. CONTRACTOR MUST SWEEP CLEAN ALL PAVED AREAS SOILED/TRACKED BY CONSTRUCTION ACTIVITIES AND AS DIRECTED.
- 3. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
- 4. ALL MATERIALS MUST BE DELIVERED TO SITE ON MONDAYS AND TUESDAYS ONLY, WHEN THE PARK IS CLOSED FOR THE VISITORS.

DESIGN CODES, STANDARDS AND REFERENCES

- 1. INTERNATIONAL BUILDING CODE (IBC) - 2024
- 2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) PUBLICATION ASCE/SEI 7-22, "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES".
- 3. FLORIDA BUILDING CODE, 2023 8TH EDITION.
- 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN", 15TH EDITION.
- 5. UNIFIED FACILITIES CRITERIA (UFC) PUBLICATION "UFC 4-152-001 PIERS AND WHARVES".
- 6. U.S. ARMY CORPS OF ENGINEERS (USACE) "EM 1110-2-2504 DESIGN OF SHEET PILE WALLS".

DESIGN CRITERIA

- 1. LOCATION OF EXISTING STRUCTURES TAKEN FROM LAND SURVEY PERFORMED BY SSMC ON DECEMBER 2025, AND REPRESENTS THE CONDITIONS OF THE SITE AT THE TIME OF THE SURVEY.
- 2. HYDROGRAPHIC SURVEY PERFORMED BY AECOM ON APRIL 2024 REPRESENTS THE CONDITIONS OF THE SITE AT THE TIME OF THE SURVEY.
- 3. GEOTECHNICAL FIELD EXPLORATION PERFORMED BY TERRACON CONSULTANT ON APRIL 2024 REPRESENTS THE SUBSOIL CONDITIONS OF THE SITE AT THE TIME OF THE INVESTIGATION.
- 4. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). HORIZONTAL DATUM IS THE FLORIDA STATE PLANE COORDINATE SYSTEM (NAD83), EAST ZONE.

- 5. TIDAL DATUM AND STILL WATER ELEVATIONS AT THE PROJECT SITE ARE DEFINED AS FOLLOWS:

PROJECT TIDAL ELEVATIONS:

MEAN HIGHER HIGH WATER:	EL: +2.24
MEAN HIGH WATER:	EL: +1.94
MEAN SEA LEVEL:	EL: -0.36
MEAN LOW WATER:	EL: -2.84
MEAN LOWER LOW WATER	EL: -2.98

TIDAL ELEVATIONS WERE OBTAINED FROM TIDAL STATION ID 872-0186 LOCATED AT FORT GEORGE ISLAND. THE ELEVATIONS ARE IN FEET AND REFERENCED TO NAVD88. TIDAL DATA IS PER NOAA AVERAGE BASED ON THE 1983-2001 TIDAL EPOCH.

- 6. AS BUILT DRAWINGS FOR THE EXISTING BULKHEAD WERE USED IN CONJUNCTION WITH THE SITE INFORMATION.

- 7. ALL REFERENCE AND TEMPORARY BENCHMARKS LOCATED AT THE SITE ARE SHOWN IN THE DRAWING.

DESIGN LOADING

- 1. STRUCTURE IS DESIGNED FOR THE FOLLOWING NOTED LOAD CRITERIA. LOAD COMBINATION FOR BULKHEAD ARE IN ACCORDANCE WITH ASCE/SEI 7-22.
- 2. DEAD LOAD
DEAD LOADS ARE DETERMINED IN ACCORDANCE WITH APPLICABLE ENGINEERING MANUALS AND ASCE 7-16 AND INCLUDE SELF WEIGHT OF ALL PERMANENT CONSTRUCTION COMPONENTS.
- 3. LIVE LOAD
FOLLOWING UNIFORM LIVE LOAD SURCHARGE APPLIED TO THE STRUCTURE.
BULKHEAD: 100 PSF
- 4. WIND LOAD
WIND SPEED ON BULKHEAD: 130 MPH (ULTIMATE -LEVEL, 3 SEC GUST)
RISK CATEGORY II
- 5. SEISMIC LOAD
ANALYSIS PROCEDURE IS EQUIVALENT LATERAL FORCE IN ACCORDANCE WITH ASCE 7-16.
RISK CATEGORY II,
SEISMIC SITE CLASS D
IMPORTANCE FACTOR 1.0
- 6. CURRENT LOAD
CURRENT SPEED IS ASSUMED TO BE MAXIMUM OF 4 FT/SEC.
- 7. TEMPERATURE
THERMAL RANGE: ± 40 DEGREE

DEMOLITION

- 1. ITEMS NOT TO BE SALVAGED MUST BE PROMPTLY REMOVED FROM THE SITE BY THE CONTRACTOR.
- 2. ALL DEBRIS RESULTING FROM DEMOLITION AND REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AND DISPOSED OFF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 3. ALL DEMOLISHED AND REMOVED BUT NOT SALVAGED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 4. THE CONTRACTOR MUST NOTIFY CONTRACTING OFFICER OF ANY APPARENT CONTAMINATED OR HAZARDOUS MATERIALS FOUND.
- 5. THE CONTRACTOR MUST NOT DISTURB GROUND UNTIL THE GENERAL NPDES PERMIT IS APPROVED, AND ONCE APPROVED ABIDE BY ITS CONDITION.
- 6. THERE ARE NO KNOWN UTILITIES PRESENT INSIDE THE WORK LIMIT. THE CONTRACTOR SHALL IMMEDIATELY INFORM CONTRACTING OFFICER OF ANY ACTIVE OR INACTIVE UTILITIES FOUND DURING THE CONSTRUCTION WORK.
- 7. ITEMS NOT TO BE SALVAGED MUST BE PROMPTLY REMOVED FROM THE SITE BY THE CONTRACTOR.

TREE REPLACEMENT

- 1. CONTRACTOR SHALL REMOVE EXISTING CEDAR TREE AND REPLACE WITH A NURSERY-GROWN CEDAR TREE OF SIMILAR SPECIES.
- 2. REPLACEMENT TREE SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

12–14 FT HEIGHT
3-INCH MINIMUM CALIPER (MEASURED 6 INCHES ABOVE GRADE)
BALLED AND BURLAPPED (B&B) WITH MINIMUM 36-INCH ROOT BALL
- 3. SAPLINGS, WHIPS, OR CONTAINER-GROWN STOCK ARE NOT PERMITTED. TREE SHALL BE WELL-FORMED, FREE OF DEFECTS, AND MEET ANSI Z60.1.
- 4. INSTALL PER INDUSTRY STANDARDS WITH ROOT FLARE AT OR ABOVE FINISHED GRADE. PROVIDE MULCH AND WATERING AT TIME OF INSTALLATION.

- 5. TREE SHALL BE WARRANTED FOR 1 YEAR. ANY TREE THAT FAILS DURING THE WARRANTY PERIOD SHALL BE REPLACED WITH A TREE MEETING THESE REQUIREMENTS.

- 6. CONTRACTOR SHALL SUBMIT TREE FOR APPROVAL PRIOR TO INSTALLATION.

EXCAVATION, BACKFILLING AND COMPACTION

- 1. THE SITE MUST BE EXCAVATED, BACKFILLED, COMPACTED AND GRADED TO THE ELEVATIONS AND LIMITS SHOWN IN THE DRAWING AND AS NEEDED TO MEET THE REQUIREMENTS OF THE WORK.
- 2. SELECT BACKFILL SOILS MUST BE IMPORTED TO THE SITE TO MEET THE SPECIFICATION FOR SELECT STRUCTURAL BACKFILL. EXCAVATED MATERIAL FROM THE SITE, IF USED AS SELECT STRUCTURAL BACKFILL, MUST MEET THE PROJECT SPECIFICATION FOR SELECT STRUCTURAL FILL.
- 3. MATERIALS TO BE USED AS SELECT BACKFILL BEHIND THE WALL MUST BE GRANULAR AND HAVE A LIQUID LIMIT (LL) AND PLASTICITY INDEX (PI) OF LESS THAN 35 AND 15 RESPECTIVELY. THE SELECT BACKFILL MATERIAL MUST BE LIMITED TO NO MORE THAN 30 PERCENT FINE PARTICLES PASSING THROUGH THE NO. 200 SIEVE.
- 4. STRUCTURAL BACKFILL MUST BE PLACED IN LOOSE LIFT NOT EXCEEDING 8 INCHES IN THICKNESS AND SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR TEST). MOISTURE CONTENT OF THE FILL MATERIALS SHOULD BE ±3 PERCENT OF THE OPTIMUM CONTENT PER ASTM D 698.

SYNTHETIC SHEET PILING AND ACCESSORIES

- 1. SYNTHETIC SHEET PILING MUST MEET THE FOLLOWING MINIMUM PROPERTIES.

SHEET PILE TYPE	DEPTH (IN)	THICKNESS (IN)	ALLOWABLE MOMENT (FT-LBS/FT)	SECTION MODULUS (IN³/FT)	MOMENT OF INERTIA (IN⁴/FT)
PVC	10	0.48	8,480	31.80	159
FRP	17	0.54	48,750	58.50	497

- 2. SHEET PILING MUST BE FULL LENGTH SECTIONS OF THE DIMENSION INDICATED. POLYVINYL CHLORIDE (PVC) SHEET PILE WALL MUST MEET THE FOLLOWING MINIMUM MECHANICAL PROPERTIES

MINIMUM TENSILE STRENGTH:	6,500 PSI
MODULUS OF ELASTICITY:	400,000 PSI
ALLOWABLE BENDING STRENGTH:	3,200 PSI
IMPACT RESISTANCE:	1,500 IN.LB/IN

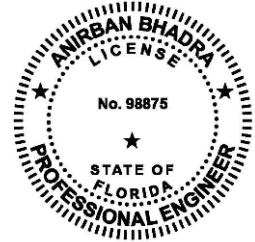
- 3. FIBER REINFORCED POLYMER (FRP) COMPOSITE SHEET PILE WALL MUST MEET THE FOLLOWING MINIMUM PROPERTIES.

MINIMUM TENSILE STRENGTH:	75,000 PSI
MODULUS OF ELASTICITY:	2,200,000 PSI
ALLOWABLE BENDING STRENGTH:	10,000 PSI

- 4. PVC AND FRP SHEET PILE MUST BE UV-LIGHT ABSORBERS AND STABILIZERS AND INCLUDE A MINIMUM 3 MIL POLYESTER OR NYLON VEIL.
- 5. SHEET PILE INTERLOCKS MUST BE FREE SLIDING AND MUST PROVIDE A SWING ANGLE SUITABLE FOR THE INTENDED INSTALLATION AND MAINTAIN CONTINUOUS INTERLOCKING WHEN INSTALLED.
- 6. CORNER CONNECTORS MUST BE HIGH IMPACT, CORROSION RESISTANCE PVC OR MARINE GRADE ALUMINUM MATERIAL, AS RECOMMENDED BY SHEET PILE MANUFACTURER. MANUFACTURER MUST RECOMMEND SPECIAL CORNER CONNECTOR BETWEEN PVC AND FRP SHEET PILE CORNER.

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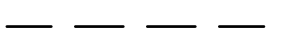
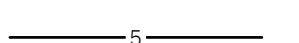
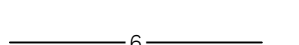
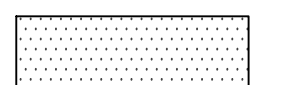
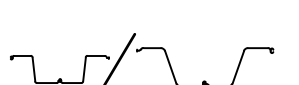
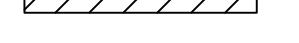


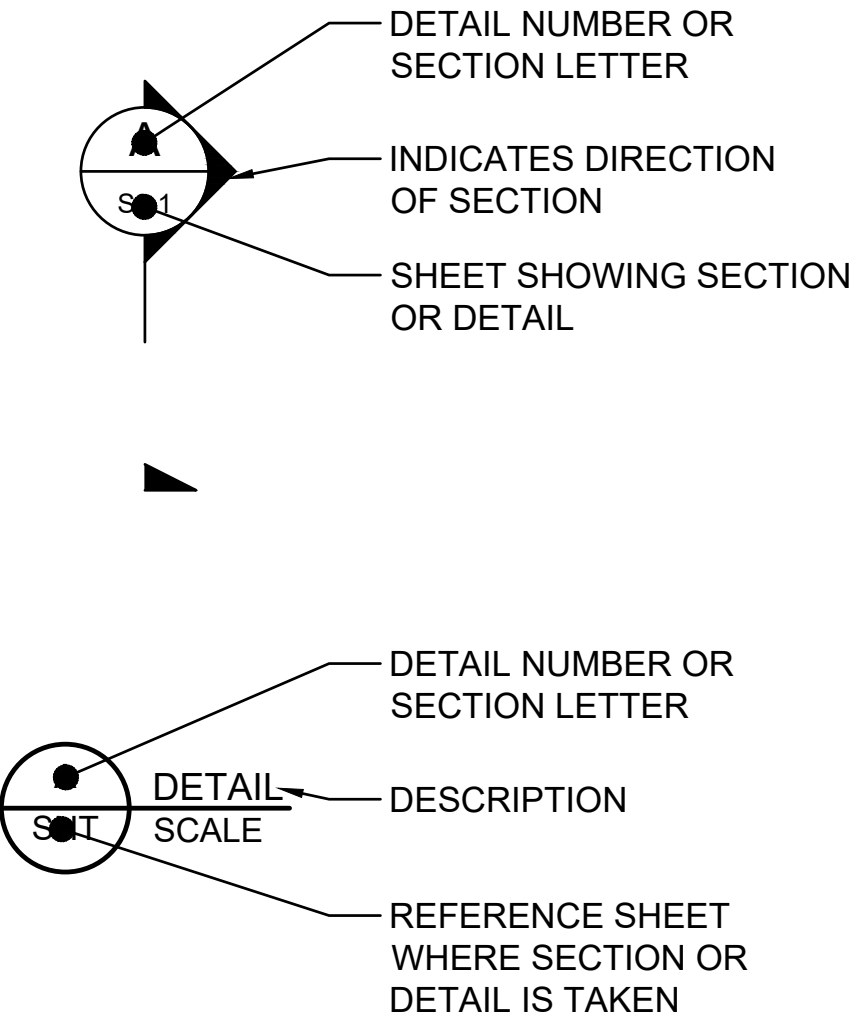
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ABBREVIATIONS LIST

A/E OR A&E	-	ARCHITECT/ENGINEER
ACI	-	AMERICAN CONCRETE INSTITUTE
AISC	-	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AITC	-	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
AMEND	-	AMENDMENT
ANSI	-	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	-	AMERICAN SOCIETY FOR CIVIL ENGINEERS
ASTM	-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CAD	-	COMPUTER AIDED DESIGN
CPT	-	CONE PENETRATION TEST
DSC	-	DENVER SERVICE CENTER
ELEV / EL	-	ELEVATION
FDOT	-	FLORIDA DEPARTMENT OF TRANSPORTATION
FRP	-	FIBER REINFORCED POLYMER
IBC	-	INTERNATIONAL BUILDING CODE
IN	-	INCH/INCHES
ISO	-	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
LB	-	POUNDS
LL	-	LIQUID LIMIT
MDD	-	MAXIMUM DRY DENSITY
MECH	-	MECHANICAL
MHHW	-	MEAN HIGHER HIGH WATER
MHW	-	MEAN HIGH WATER
MLLW	-	MEAN LOWER LOW WATER
MLW	-	MEAN LOW WATER
MPH	-	MILES PER HOUR
MOD	-	MODIFICATION
MIN	-	MINIMUM
MSL	-	MEAN SEA LEVEL
NAD	-	NORTH AMERICAN DATUM
NAVD	-	NORTH AMERICAN VERTICAL DATUM
NCS	-	NATIONAL CAD STANDARD
NOAA	-	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NPS	-	NATIONAL PARK SERVICES
O.C.	-	ON CENTER
OSHA	-	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCI	-	PRESTRESSED CONCRETE INSTITUTE
PCF	-	POUNDS PER CUBIC FOOT
PDF	-	PORTABLE DOCUMENT FORMAT
PI	-	PLASTICITY INDEX
PMIS	-	PROJECT MANAGEMENT INFORMATION SYSTEM
PMIS NO	-	PROJECT PMIS NUMBER
PSF	-	POUNDS PER SQUARE FOOT
PSI	-	POUND PER SQUARE INCH
PVC	-	POLYVINYL CHLORIDE
RCA	-	RECYCLED CONCRETE AGGREGATE
SPT	-	STANDARD PROCTOR TEST
STRUC	-	STRUCTURAL
TCS	-	TAPE COATING SYSTEM
TYP	-	TYPICAL
UFC	-	UNIFIED FACILITIES CRITERIA
U.S.	-	UNITED STATES
USACE	-	U.S. ARMY CORPS OF ENGINEERS
UV	-	ULTRAVIOLET
V	-	VERSION
V.I.F	-	VERIFY IN FIELD
V6	-	VERSION 6
WL	-	WORK LIMIT

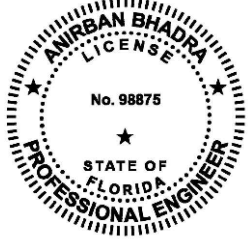
MASTER LEGEND

	WORK LIMIT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	GRADING LIMITS
	STONE RIPRAP
	IMPORTED BACKFILL
	RUBBER TRAIL
	EXISTING SHEET PILE
	PROPOSED SHEET PILE
	EXISTING TREE
	DEMOLITION
	LIMIT FOR BACKFILLING
	TOP OF BANK
	TOP OF SLOPE
	WOODEN FENCE
	ACCESS ROUTE
	DIRECTIONAL ARROWS

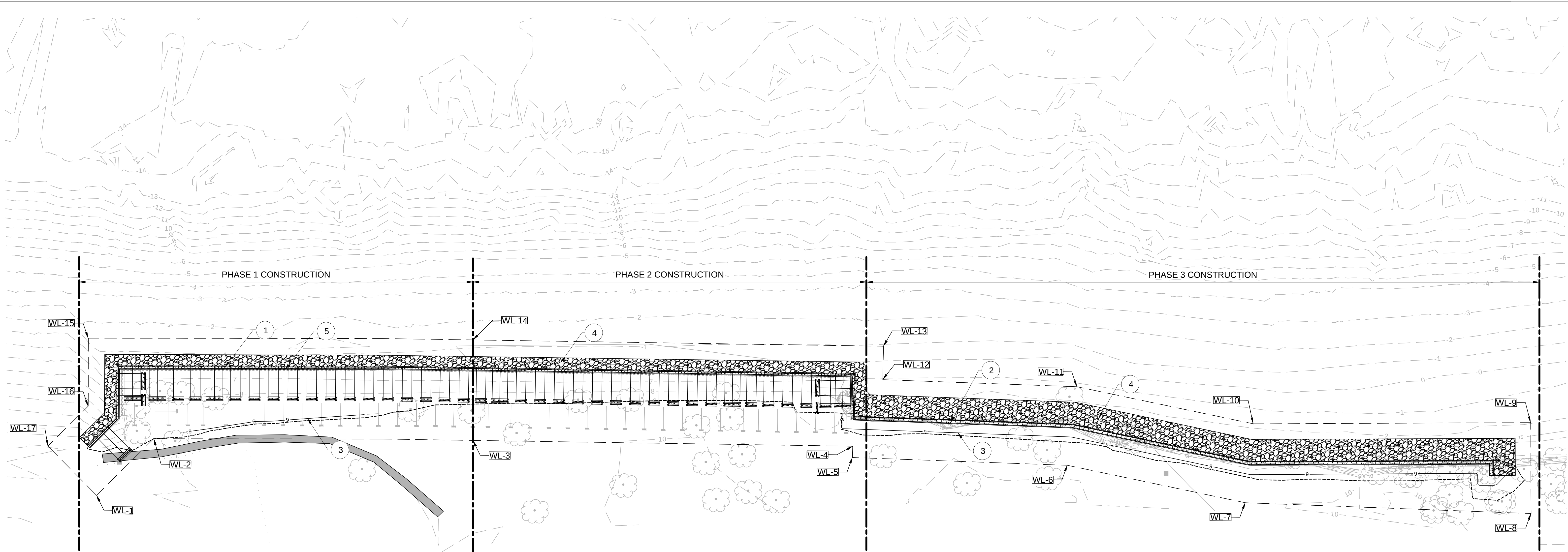


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AECOM SAVANNAH, GA		G0.2	LEGEND AND ABBREVIATIONS	006 191524
			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	PMIS NO. 335507 SHEET 03 OF 27



KEY NOTES

- 1 PVC SHEET PILE WALL WITH TIE RODS AND DEADMAN WALLS
- 2 FRP COMPOSITE CANTILEVER SHEET PILE WALL
- 3 IMPORTED SOIL BACKFILL
- 4 LIMESTONE ROCK RIPRAP
- 5 EXISTING PVC BULKHEAD WITH STEEL TIE ROD AND CONCRETE DEADMAN ABANDONED IN PLACE

LEGEND

- WORK LIMIT
- ▬ RUBBER TRAIL
- - - - - LIMIT FOR BACKFILLING
- ☼ EXISTING TREES

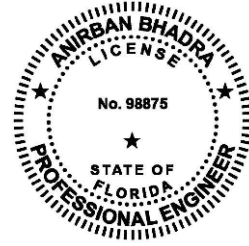
NOTES

- PROJECT SCOPE OF WORK IS SHOWN IN BLACK COLOR. EXISTING FEATURES TO REMAIN ARE SHOWN IN GRAY COLOR.
- WORK PRESENTED ON THIS SHEET DESCRIBES GENERAL INTENT ONLY. NOT ALL PROJECT WORKS AND FEATURES ARE SHOWN FOR CLARITY ON THIS SHEET.
- UPON COMPLETION OF WALL CONSTRUCTION, EXISTING RUBBER TRAIL MUST BE REINSTALLED.

WORKING LIMIT TABLE		
WORKING LIMIT #	NORTHING	EASTING
WL-1	2220391.67	517934.47
WL-2	2220409.42	517972.83
WL-3	2220351.78	518130.12
WL-4	2220281.32	518316.63
WL-5	2220275.83	518314.42
WL-6	2220233.69	518419.22
WL-7	2220183.54	518500.42
WL-8	2220127.33	518639.61
WL-9	2220172.30	518655.61
WL-10	2220221.08	518518.44

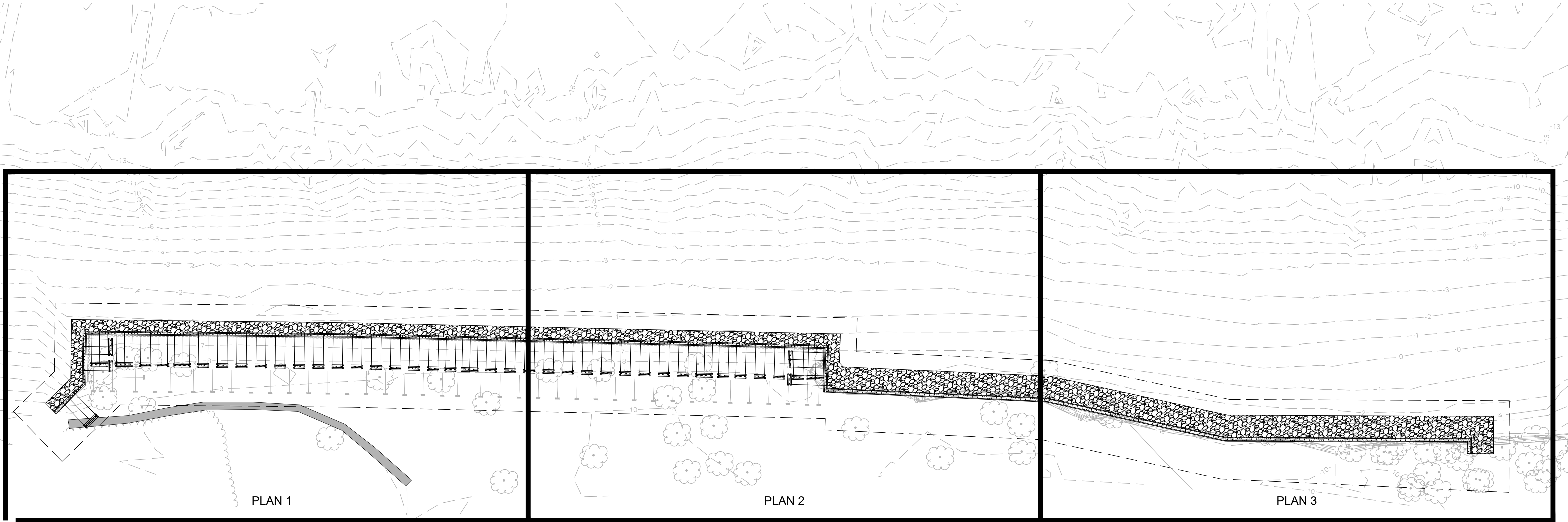
WORKING LIMIT TABLE		
WORKING LIMIT #	NORTHING	EASTING
WL-11	2220270.79	518437.97
WL-12	2220308.85	518343.32
WL-13	2220325.23	518349.64
WL-14	2220401.42	518148.00
WL-15	2220470.75	517958.40
WL-16	2220437.15	517946.24
WL-17	2220424.64	517919.21

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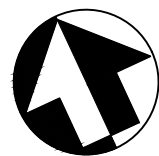
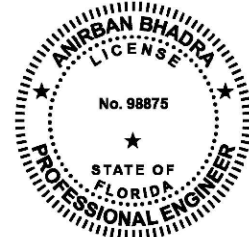
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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	G1.1	TITLE OF SHEET OVERALL SITE AND CONSTRUCTION PHASING PLAN TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 04
	TECH. REVIEW: POFF			DATE: 04/01/2026	OF 27

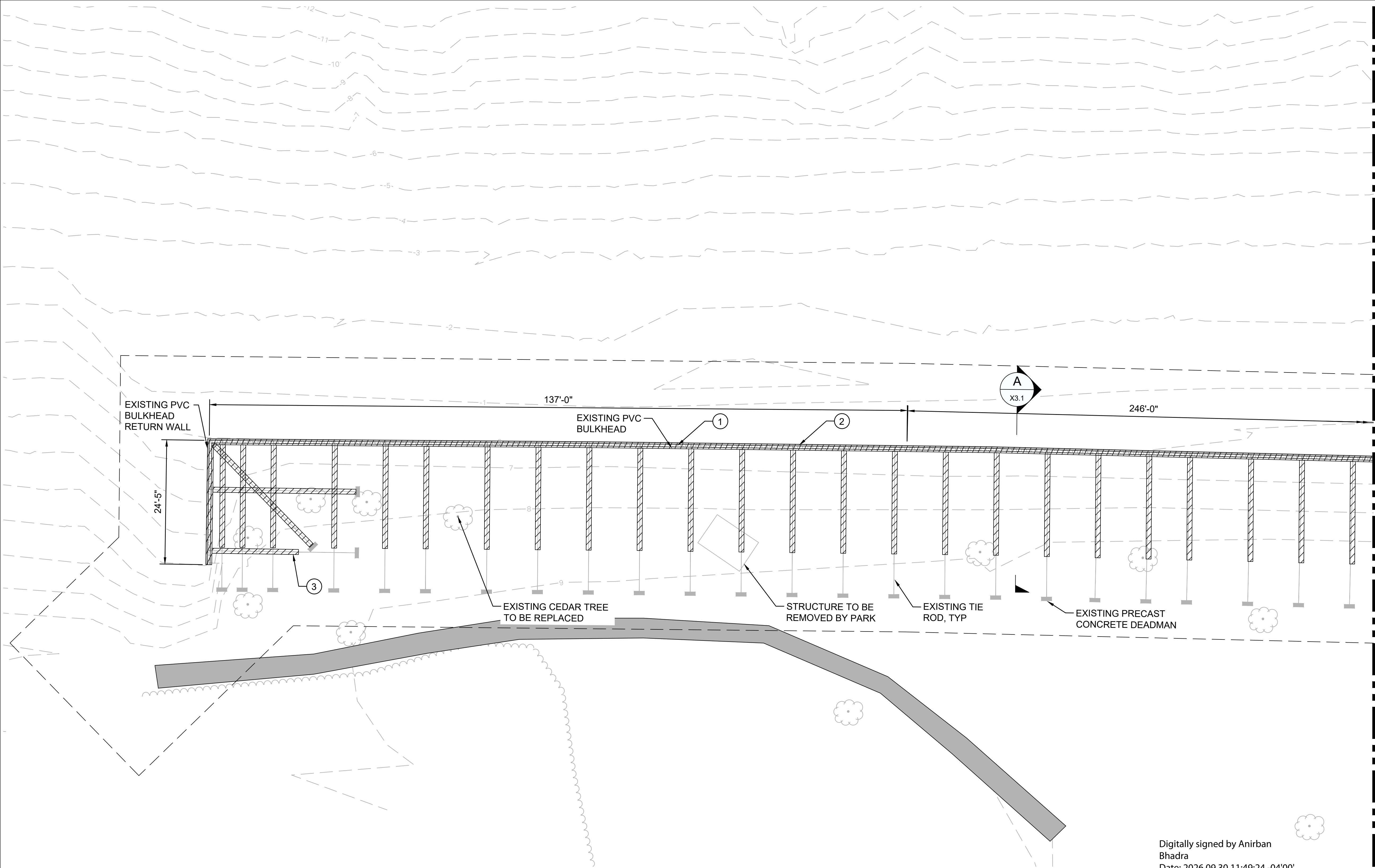


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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	G1.2	KEY PLAN	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 05
	TECH. REVIEW: POFF			OF 27	
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



LEGEND

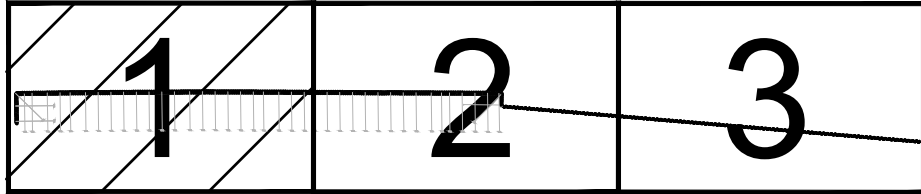
- WORK LIMIT
- 0 --- EXISTING MAJOR CONTOUR
- 16 --- EXISTING MINOR CONTOUR
- ~ EXISTING SHEET PILE
- ☁ EXISTING TREE
- RUBBER TRAIL
- ▨ DEMOLITION

NOTES

- DEMOLITION WORK SHOWN IN BLACK COLOR. EXISTING ITEMS TO REMAIN ARE SHOWN IN GRAY COLOR FOR CLARITY.
- SURVEY TEXT SHOWN IN GRAY COLOR FOR CLARITY REGARDLESS WHETHER ITEM IS TO BE DEMOLISHED OR NOT.
- DEMOLITION AND REMOVAL WORK MUST NOT DAMAGE EXISTING ITEMS TO REMAIN. THE CONTRACTOR MUST PROMPTLY REPORT TO THE CONTRACTING OFFICER ALL DAMAGES RESULTING FROM HIS OPERATION ALONG WITH HIS REPAIR RECOMMENDATION FOR APPROVAL. CONTRACTOR MUST REPAIR ALL DAMAGES RESULTING FROM HIS OPERATION TO THE SATISFACTION OF THE CONTRACTING OFFICER.
- ITEMS IDENTIFIED AS TO BE DEMOLISHED OR REMOVED AND DEBRIS MUST BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OFFSITE. EXERCISE CARE WHEN REMOVING ITEMS TO AVOID DAMAGING ADJACENT REMAINING ITEMS.
- THE CONTRACTOR MUST FOLLOW CONSTRUCTION SEQUENCE IN SHEETS S3.1 AND S3.2 PRIOR TO START DEMOLITION.
- THE CONTRACTOR MUST PROTECT THE TREES AND STRUCTURES TO BE REMAIN IN PLACE DURING THE DEMOLITION AND THROUGHOUT THE CONSTRUCTION.
- THE CONTRACTOR MUST REINSTALL THE RUBBER TRAIL AFTER COMPLETION OF THE CONSTRUCTION.

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Date: 2026.09.30 11:49:24 -04'00'

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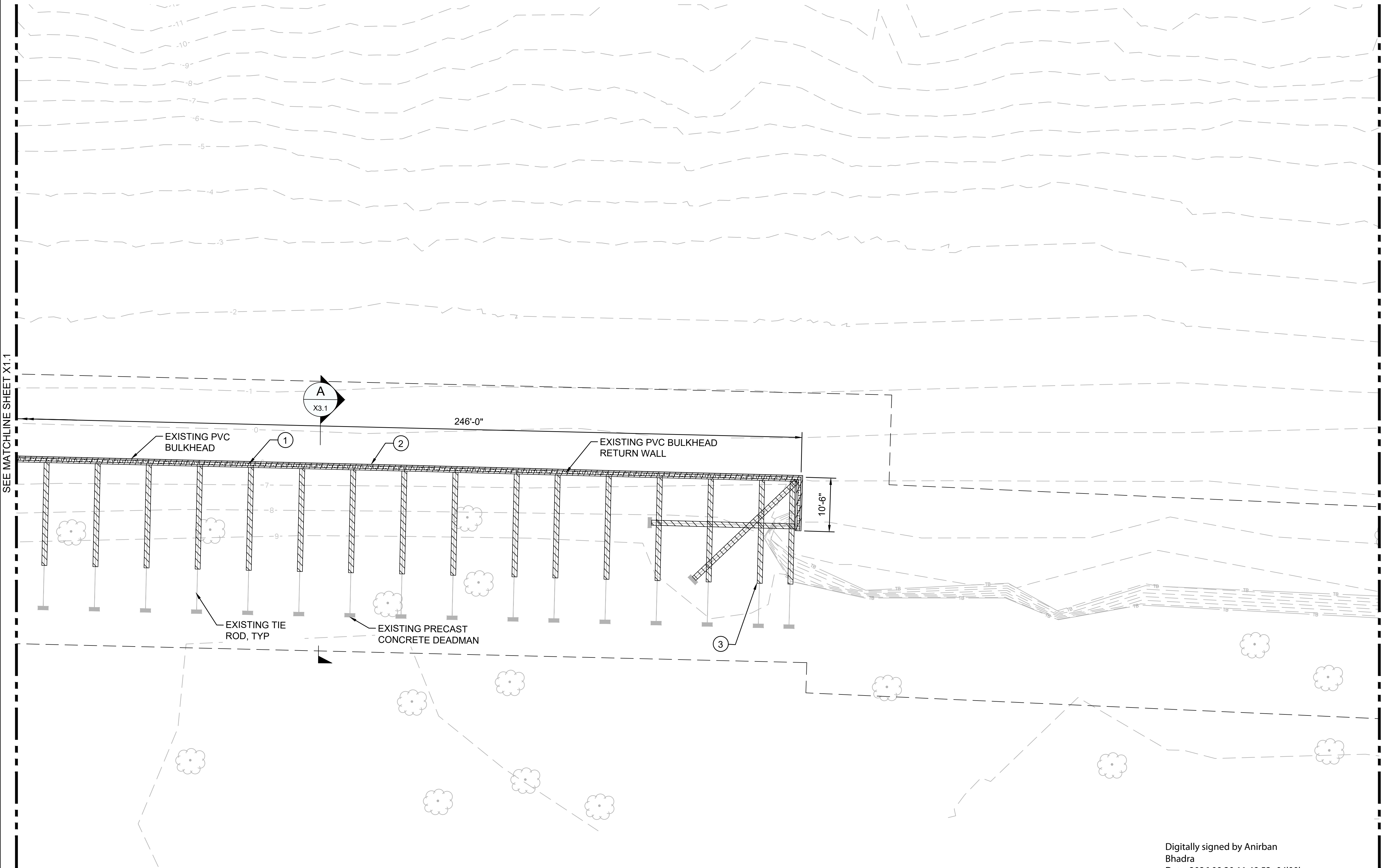


KEY MAP

DEMOLITION NOTES

- DISPOSE 2"x12" TIMBER SHEET PILE TOP WITH LAG BOLTS.
- SALVAGE 2"x6" HORIZONTAL FACING TIMBERS ABOVE SPLASHING ZONE TO BE RE-INSTALLED AT NEW WALL FACE. DISPOSE HORIZONTAL FACING TIMBERS BELOW SPLASH ZONE.
- CUT AND DISPOSE EXISTING TIE RODS.

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	<u>SUB SHEET NO.</u> X1.1	TITLE OF SHEET DEMOLITION PLAN 1	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507 _____ _____	SHEET 06
	TECH. REVIEW: POFF				
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



LEGEND

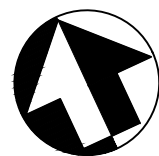
- WORK LIMIT
- 0 --- EXISTING MAJOR CONTOUR
- 16 --- EXISTING MINOR CONTOUR
- TB --- TOP OF BANK
- ~ EXISTING SHEET PILE
- (cloud symbol) EXISTING TREE
- (hatched box symbol) DEMOLITION

NOTES

- DEMOLITION WORK SHOWN IN BLACK COLOR. EXISTING ITEMS TO REMAIN ARE SHOWN IN GRAY COLOR FOR CLARITY.
- SURVEY TEXT SHOWN IN GRAY COLOR FOR CLARITY REGARDLESS WHETHER ITEM IS TO BE DEMOLISHED OR NOT.
- DEMOLITION AND REMOVAL WORK MUST NOT DAMAGE EXISTING ITEMS TO REMAIN. THE CONTRACTOR MUST PROMPTLY REPORT TO THE CONTRACTING OFFICER ALL DAMAGES RESULTING FROM HIS OPERATION ALONG WITH HIS REPAIR RECOMMENDATION FOR APPROVAL. CONTRACTOR MUST REPAIR ALL DAMAGES RESULTING FROM HIS OPERATION TO THE SATISFACTION OF THE CONTRACTING OFFICER.
- ITEMS IDENTIFIED AS TO BE DEMOLISHED OR REMOVED AND DEBRIS MUST BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OFFSITE. EXERCISE CARE WHEN REMOVING ITEMS TO AVOID DAMAGING ADJACENT REMAINING ITEMS.
- CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF THE SHEET PILE WALL EXTENSION AND ASSOCIATED WORK. ALL OTHER VEGETATION AND EXISTING FEATURES SHALL REMAIN UNDISTURBED.
- THE CONTRACTOR MUST FOLLOW CONSTRUCTION SEQUENCE IN SHEETS S3.1 AND S3.2 PRIOR TO START DEMOLITION.
- THE CONTRACTOR MUST PROTECT THE TREES AND STRUCTURES TO BE REMAIN IN PLACE DURING THE DEMOLITION AND THROUGHOUT THE CONSTRUCTION.

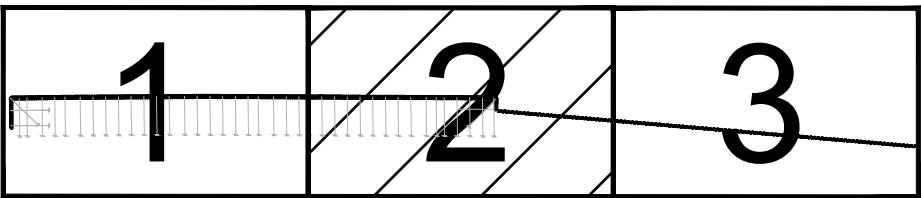
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DEMOLITION NOTES

- DISPOSE 2"x12" TIMBER SHEET PILE TOP WITH LAG BOLTS.
- SALVAGE 2"x6" HORIZONTAL FACING TIMBERS ABOVE SPLASHING ZONE TO BE RE-INSTALLED AT NEW WALL FACE. DISPOSE HORIZONTAL FACING TIMBERS BELOW SPLASH ZONE.
- CUT AND DISPOSE EXISTING TIE RODS.



KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	SUB SHEET NO. X1.2	TITLE OF SHEET DEMOLITION PLAN 2	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507 OF 27	SHEET 07
	TECH. REVIEW: POFF				
	DATE: 04/01/2026				

— — — — WORK LIMIT

— — 0 — — EXISTING MAJOR CONTOUR

— — 16 — — EXISTING MINOR CONTOUR

—— TB —— TOP OF BANK

—— TS —— TOP OF SLOPE

—— ** —— WOOD FENCE

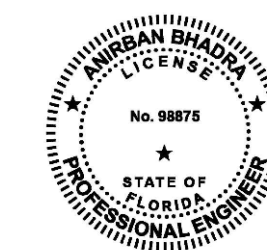
 EXISTING TREE

1. DEMOLITION WORK SHOWN IN BLACK COLOR. EXISTING ITEMS TO REMAIN ARE SHOWN IN GRAY COLOR FOR CLARITY.
2. SURVEY TEXT SHOWN IN GRAY COLOR FOR CLARITY REGARDLESS WHETHER ITEM IS TO BE DEMOLISHED OR NOT.
3. DEMOLITION AND REMOVAL WORK MUST NOT DAMAGE EXISTING ITEMS TO REMAIN. THE CONTRACTOR MUST PROMPTLY REPORT TO THE CONTRACTING OFFICER ALL DAMAGES RESULTING FROM HIS OPERATION ALONG WITH HIS REPAIR RECOMMENDATION FOR APPROVAL. CONTRACTOR MUST REPAIR ALL DAMAGES RESULTING FROM HIS OPERATION TO THE SATISFACTION OF THE CONTRACTING OFFICER.
4. ITEMS IDENTIFIED AS TO BE DEMOLISHED OR REMOVED AND DEBRIS MUST BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OFFSITE. EXERCISE CARE WHEN REMOVING ITEMS TO AVOID DAMAGING ADJACENT REMAINING ITEMS.
5. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF THE SHEET PILE WALL EXTENSION AND ASSOCIATED WORK. ALL OTHER VEGETATION AND EXISTING FEATURES SHALL REMAIN UNDISTURBED.
6. THE CONTRACTOR MUST PROTECT THE TREES AND STRUCTURES TO BE REMAIN IN PLACE DURING THE DEMOLITION AND THROUGHOUT THE CONSTRUCTION.

1 DEMOLISH AND DISPOSE EXISTING WOOD FENCE



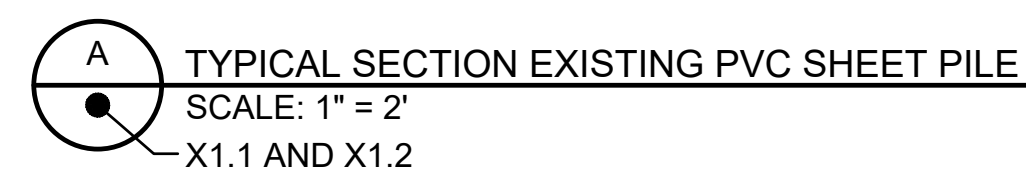
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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED:	<u>SUB SHEET NO.</u> X1.3	TITLE OF SHEET DEMOLITION PLAN 3 TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	DRAWING NO.	
	CADD:			006 191524	
	TECH. REVIEW:			PMIS NO.	SHEET
	DATE:			335507	08
	04/01/2026			OF	27

- REMOVE AND DISPOSE OFFSITE
- REMOVE AND SALVAGE

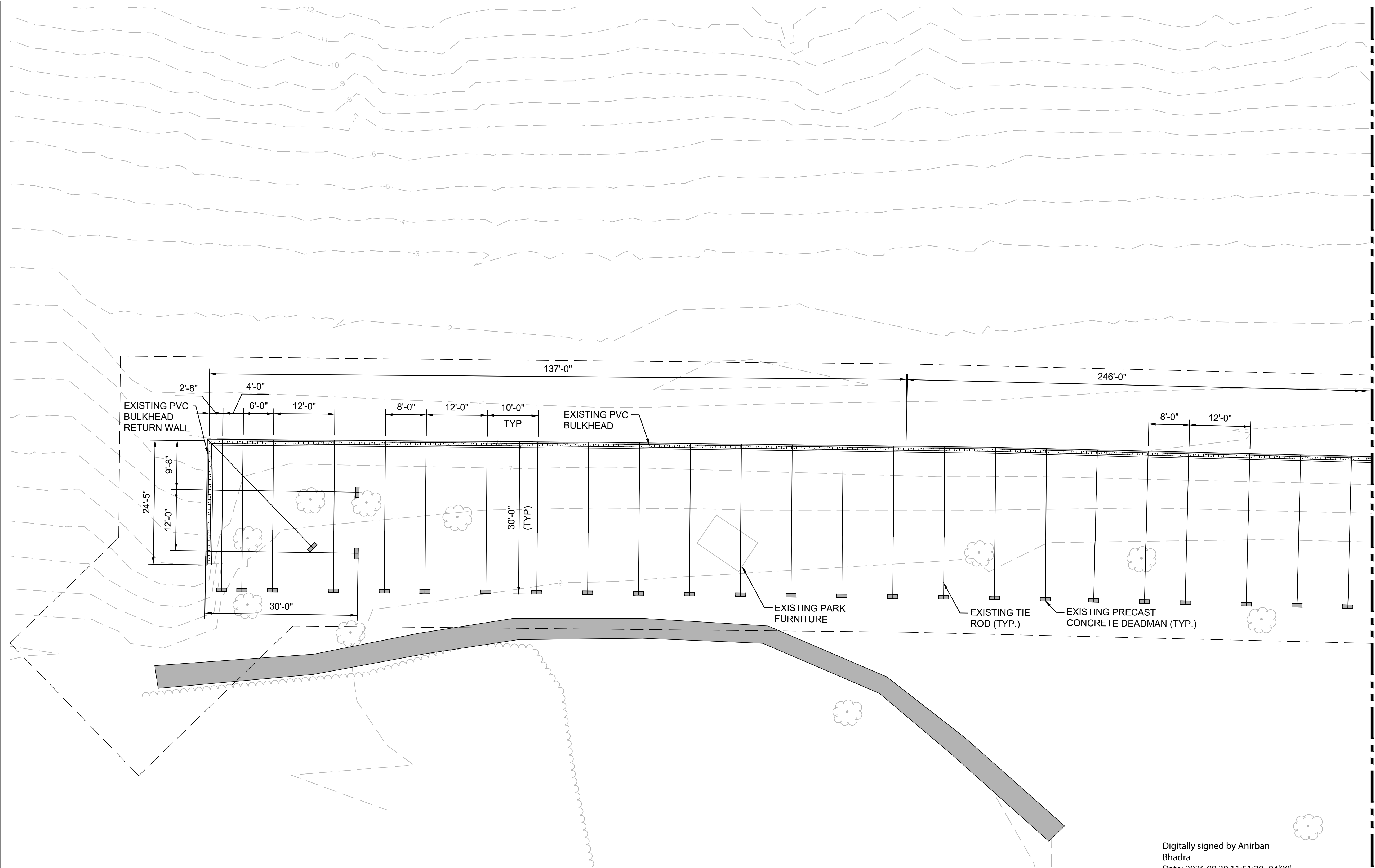
1. EXISTING BULKHEAD INFORMATION SHOWN BASED ON THE "RETAINING WALL INSTALLATION" DRAWING BY NATIONAL PARK SERVICES DATED JUNE 07, 1999.
2. LOCATION OF SUBSURFACE STRUCTURAL ELEMENT IS APPROXIMATE. ALL DIMENSION SHALL BE FIELD VERIFIED AND COORDINATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.
3. SALVAGED HORIZONTAL FACING BOARDS ABOVE SPLASH ZONE MUST BE REUSED FOR INSTALLING NEW WALL FACIA. THE CONTRACTOR SHALL TAKE NECESSARY CARE WHILE REMOVING THOSE BOARDS WITH NO OR MINIMAL DAMAGE.
4. THE CONTRACTOR MUST FOLLOW CONSTRUCTION SEQUENCE IN SHEETS S3.1 AND S3.2 PRIOR TO START DEMOLITION.



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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	SUB SHEET NO. X3.1	TITLE OF SHEET DEMOLITION SECTION	DRAWING NO. 006	
	CADD: KARTHI			191524	
	TECH. REVIEW: POFF			PMIS NO. 335507	SHEET 09
	DATE: 04/01/2026			OF 27	
			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE		



LEGEND

- WORK LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SHEET PILE
- EXISTING TREE
- RUBBER TRAIL

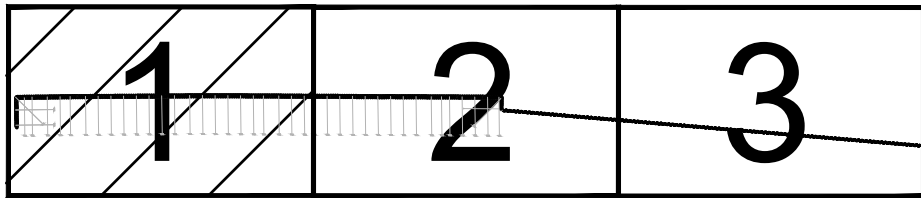
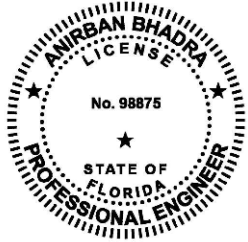
NOTES

- ELEMENTS IN BLACK ON THE SHEET SERIES REPRESENT CONDITION SURVEYED. ELEMENTS SHOWN IN GRAY INDICATE OTHER EXISTING CONDITION, INCLUDED FOR VISUAL CLARITY.
- SURVEY CONTOURS AND TEXTS ARE SHOWN IN GRAY COLOR FOR CLARITY.
- LOCATION OF SUBSURFACE STRUCTURAL ELEMENTS ARE APPROXIMATE. ALL DIMENSION SHALL BE FIELD VERIFIED AND COORDINATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.
- EXISTING BULKHEAD INFORMATION SHOWN BASED ON THE "RETAINING WALL INSTALLATION" DRAWING BY NATIONAL PARK SERVICES DATED JUNE 07, 1999.

SEE MATCHLINE SHEET C1.2

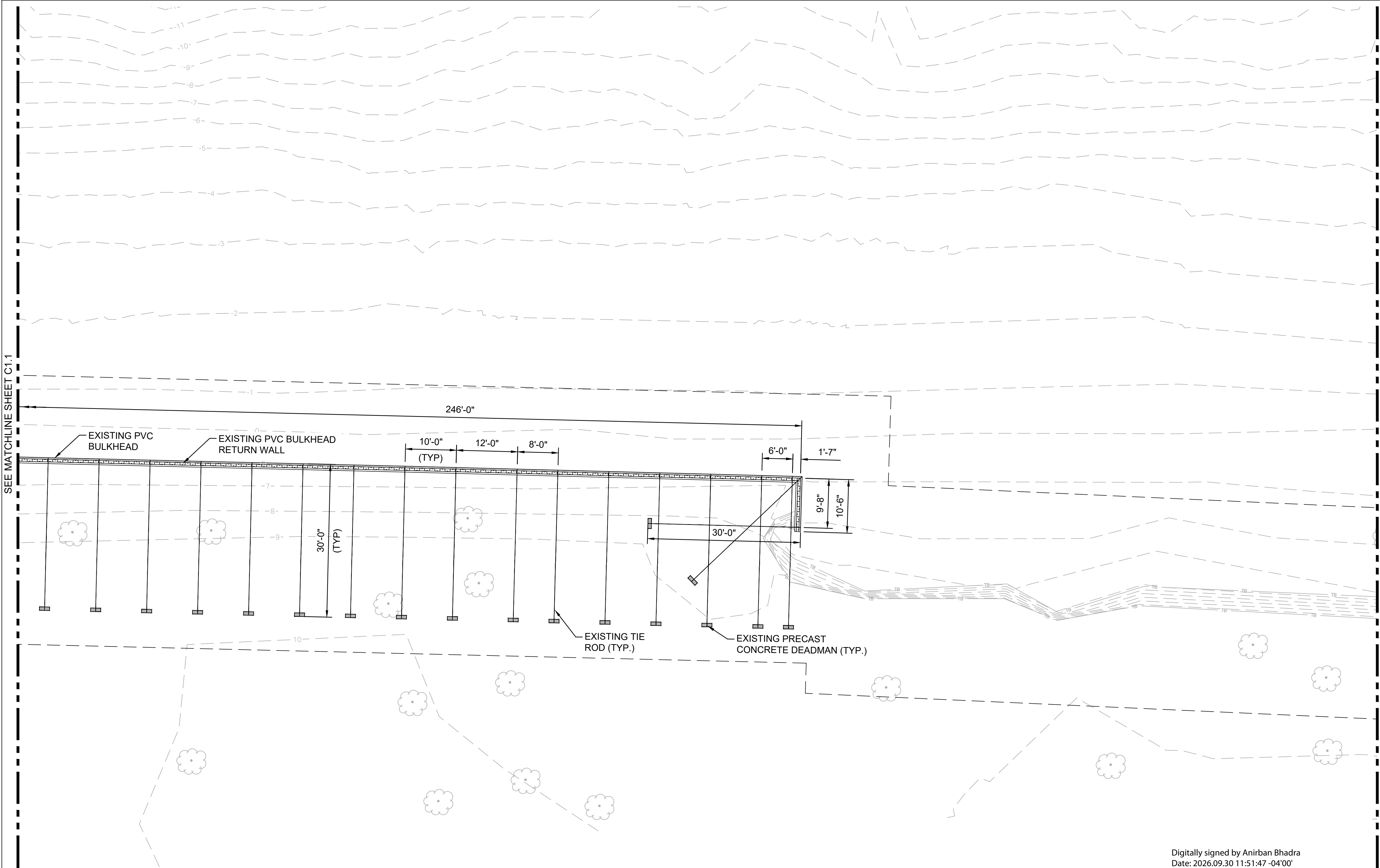
Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:51:20 -04'00'

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KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	SUB SHEET NO. C1.1	TITLE OF SHEET EXISTING CONDITION PLAN 1	DRAWING NO. 006 191524		
	CADD: KARTHI			PMIS NO. 335507	SHEET 10	
	TECH. REVIEW: BHADRA					OF 27
	DATE: 04/01/2026					
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE						



LEGEND

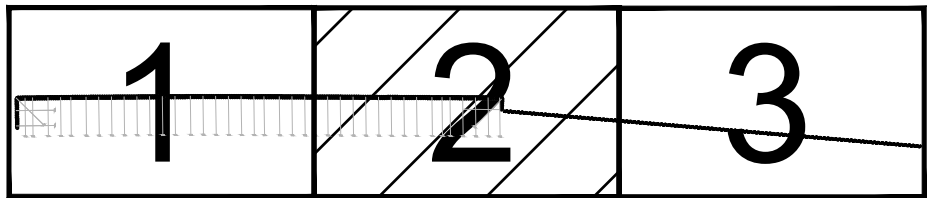
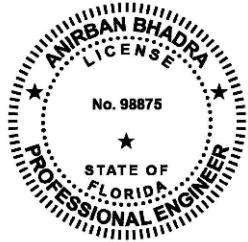
- WORK LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TB TOP OF BANK
- EXISTING SHEET PILE
- EXISTING TREE

NOTES

- ELEMENTS IN BLACK ON THE SHEET SERIES REPRESENT CONDITION SURVEYED. ELEMENTS SHOWN IN GRAY INDICATE OTHER EXISTING CONDITION, INCLUDED FOR VISUAL CLARITY.
- SURVEY CONTOURS AND TEXTS ARE SHOWN IN GRAY COLOR FOR CLARITY.
- LOCATION OF SUBSURFACE STRUCTURAL ELEMENTS ARE APPROXIMATE. ALL DIMENSION SHALL BE FIELD VERIFIED AND COORDINATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.
- EXISTING BULKHEAD INFORMATION SHOWN BASED ON THE "RETAINING WALL INSTALLATION" DRAWING BY NATIONAL PARK SERVICES DATED JUNE 07, 1999.

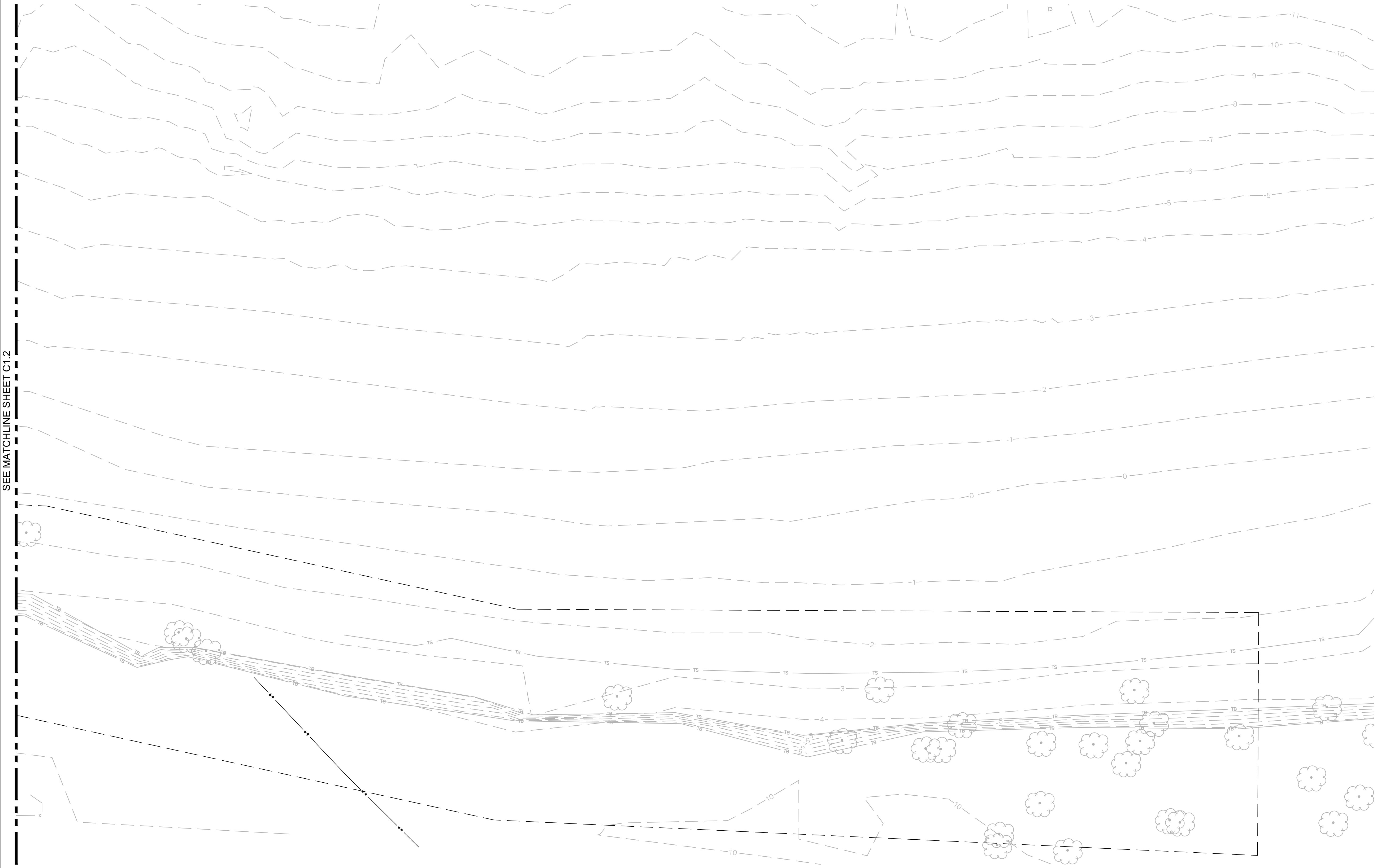
Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:51:47 -04'00'

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KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT. AECOM SAVANNAH, GA	DESIGNED: POFF	SUB SHEET NO. C1.2	TITLE OF SHEET EXISTING CONDITION PLAN 2	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 11
	TECH. REVIEW: BHADRA			OF 27	
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



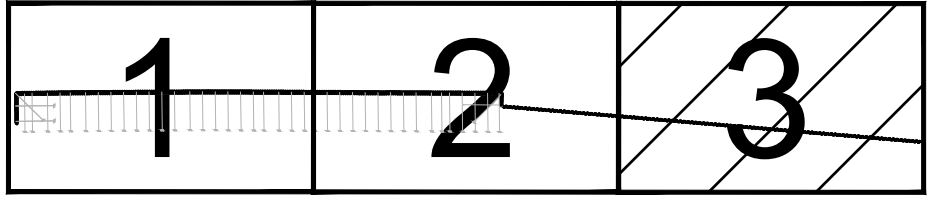
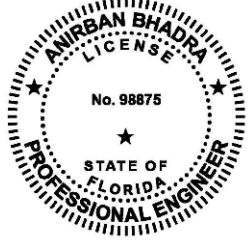
LEGEND

- WORK LIMIT
- 0 --- EXISTING MAJOR CONTOUR
- 16 --- EXISTING MINOR CONTOUR
- TB --- TOP OF BANK
- TS --- TOP OF SLOPE
- ** --- WOOD FENCE
- (Tree symbol) --- EXISTING TREE

- NOTES**
- ELEMENTS IN BLACK ON THE SHEET SERIES REPRESENT CONDITION SURVEYED. ELEMENTS SHOWN IN GRAY INDICATE OTHER EXISTING CONDITION, INCLUDED FOR VISUAL CLARITY.
 - SURVEY CONTOURS AND TEXTS ARE SHOWN IN GRAY COLOR FOR CLARITY.

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Date: 2026.09.30 11:52:09 -04'00'

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KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	SUB SHEET NO. C1.3	TITLE OF SHEET EXISTING CONDITION PLAN 3		DRAWING NO. 006	
	CADD: KARTHI				191524	
	TECH. REVIEW: BHADRA					
	DATE: 04/01/2026					
			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE		PMIS NO. 335507	SHEET 12
						OF 27



LEGEND

STAGING / LAYDOWN AREA

CM/CONTRACTOR PARKING AND TRAILER AREA

GOPHER TURTLE LOCATION

ACCESS ROUTE

DIRECTIONAL ARROWS

NOTES

1.

A TEMPORARY HAUL ROAD SHALL BE PROVIDED FOR CONSTRUCTION ACTIVITIES FOR THE DURATION OF CONSTRUCTION.

2.

A NONWOVEN GEOTEXTILE SEPARATOR SHALL BE INSTALLED BENEATH THE HAUL ROAD IN ACCORDANCE WITH FDOT SECTION 985, TYPE IV, OR APPROVED EQUIVALENT.

3.

AGGREGATE BASE MATERIAL SHALL CONSIST OF FDOT SECTION 911 BASE MATERIAL, INCLUDING LIME ROCK BASE OR RECYCLED CONCRETE AGGREGATE (RCA), MEETING FDOT REQUIREMENTS.

4.

THE TEMPORARY HAUL ROAD SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN A CONDITION SUITABLE FOR CONSTRUCTION ACCESS FOR THE DURATION OF THE WORK.

5.

THE TEMPORARY HAUL ROAD SHALL INCLUDE PULL-OFF AREAS AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACCESS AND TRAFFIC.

6.

UPON COMPLETION OF CONSTRUCTION, ALL HAUL ROAD AND LAYDOWN AREA MATERIALS SHALL BE REMOVED AND DISPOSED OFFSITE. DISTURBED AREAS RESTORED TO EXISTING CONDITIONS.

7.

TEMPORARY ACCESS ROAD WAY MUST BE CONSTRUCTED TO AVOID ANY DISTURBANCE TO EXISTING TREES.

8.

TEMPORARY EMBANKMENT OF THE ACCESS ROAD MUST MAINTAIN POSITIVE DRAINAGE AND AVOID PONDING.

9.

TEMPORARY ACCESS ROAD MUST BE STABILIZED AT THE ENTRANCE.

10.

CONTRACTOR DELIVERIES SHALL BE LIMITED TO MONDAYS AND TUESDAYS. DELIVERIES ON OTHER DAYS SHALL ONLY BE DONE IF APPROVED BY PARK MANAGEMENT AND SHALL ONLY BE CONDUCTED WHEN THE PARK IS CLOSED.

11.

TREE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH FDOT STANDARD FY 2026-27 STANDARD PLAN 110-100 FOR TREE PROTECTION AND PRESERVATION.

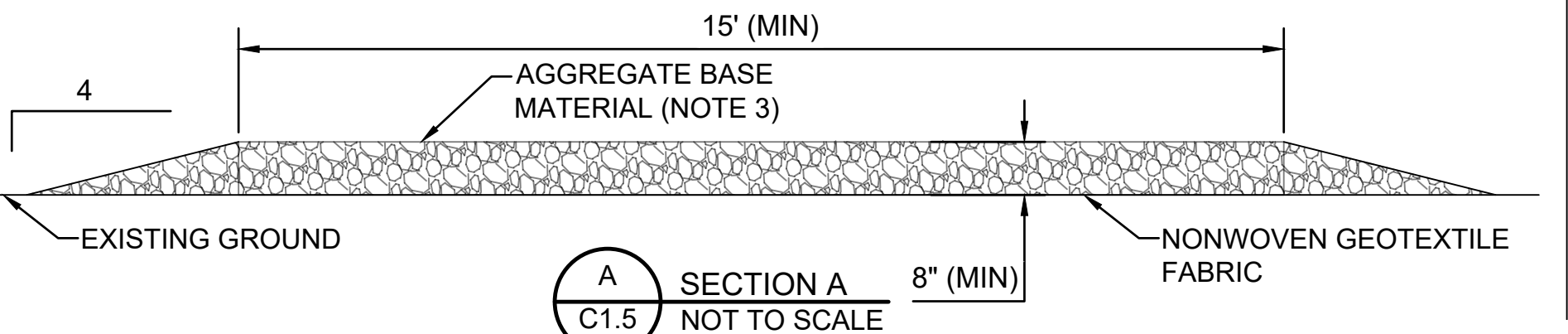
12.

ALL GOPHER TORTOISE BURROWS WITHIN OR ADJACENT TO THE PROJECT AREA SHALL BE PROTECTED. BURROWS SHALL NOT BE EXCAVATED, FILLED, OR OTHERWISE DISTURBED WITHOUT PRIOR AUTHORIZATION AND PERMIT FROM THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC). IF A BURROW IS ENCOUNTERED DURING CONSTRUCTION, WORK SHALL STOP IN THE IMMEDIATE AREA AND THE CONTRACTING OFFICE SHALL BE NOTIFIED.

13.

EXISTING ROAD TO DUMPSTER TO BE CLEAR FOR VEHICLE MOVEMENT ALL TIME DURING THE CONSTRUCTION.

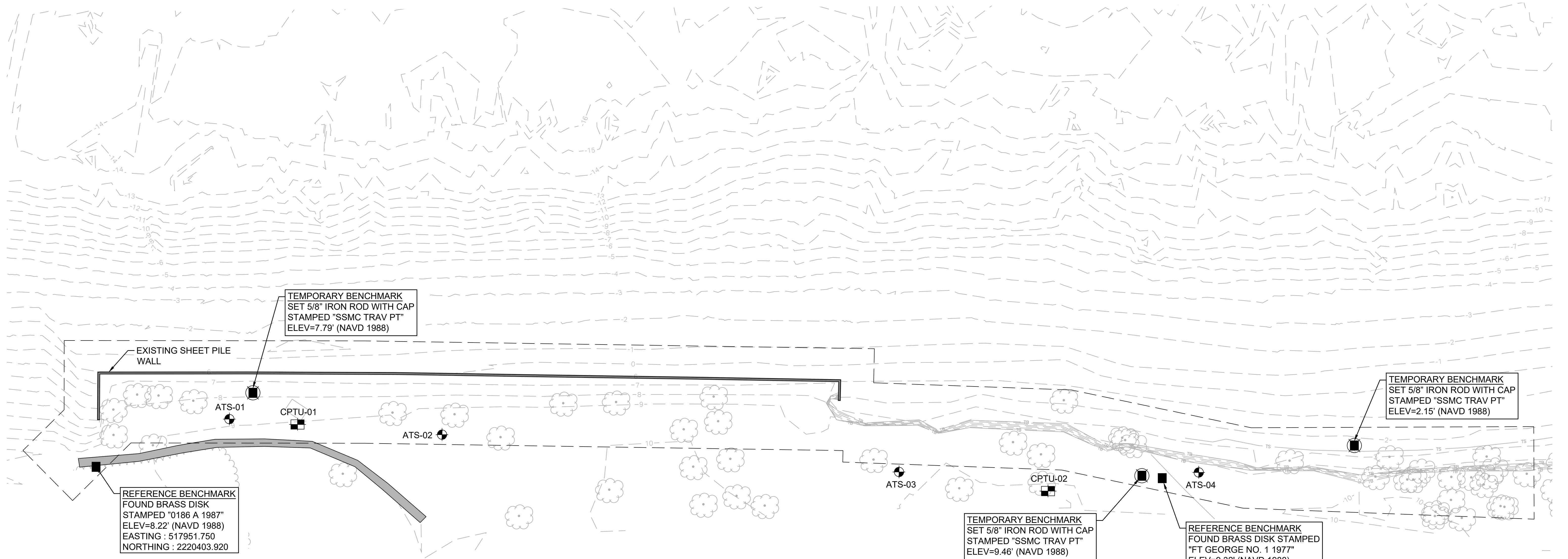
14.

WOODEN POSTS AT THE ENTRANCE OF HAUL ROAD TO BE REMOVED, SALVAGED AND REINSTALL ON COMPLETION OF CONSTRUCTION.

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:52:31 -04'00'

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A/E FIRM PRIME/CIVIL/STRUCT:	DESIGNED: POFF CADD: KARTHI TECH. REVIEW: BHADRA DATE: 04/01/2026	SUB SHEET NO. C1.4	TITLE OF SHEET CONTRACTOR SITE ACCESS AND STAGING AREA	DRAWING NO. 006 191524 SHEET 13 OF 27
AECOM SAVANNAH, GA			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



NOTES

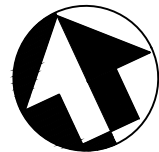
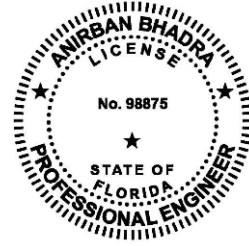
- GEOTECHNICAL DATA COLLECTION LISTED HEREIN WAS COLLECTED IN 04/2024. REFER TO AECOM GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING REPORT" DATED APRIL 14TH 2025.
- BORING AND CPT LOCATIONS ARE APPROXIMATE.

LEGEND

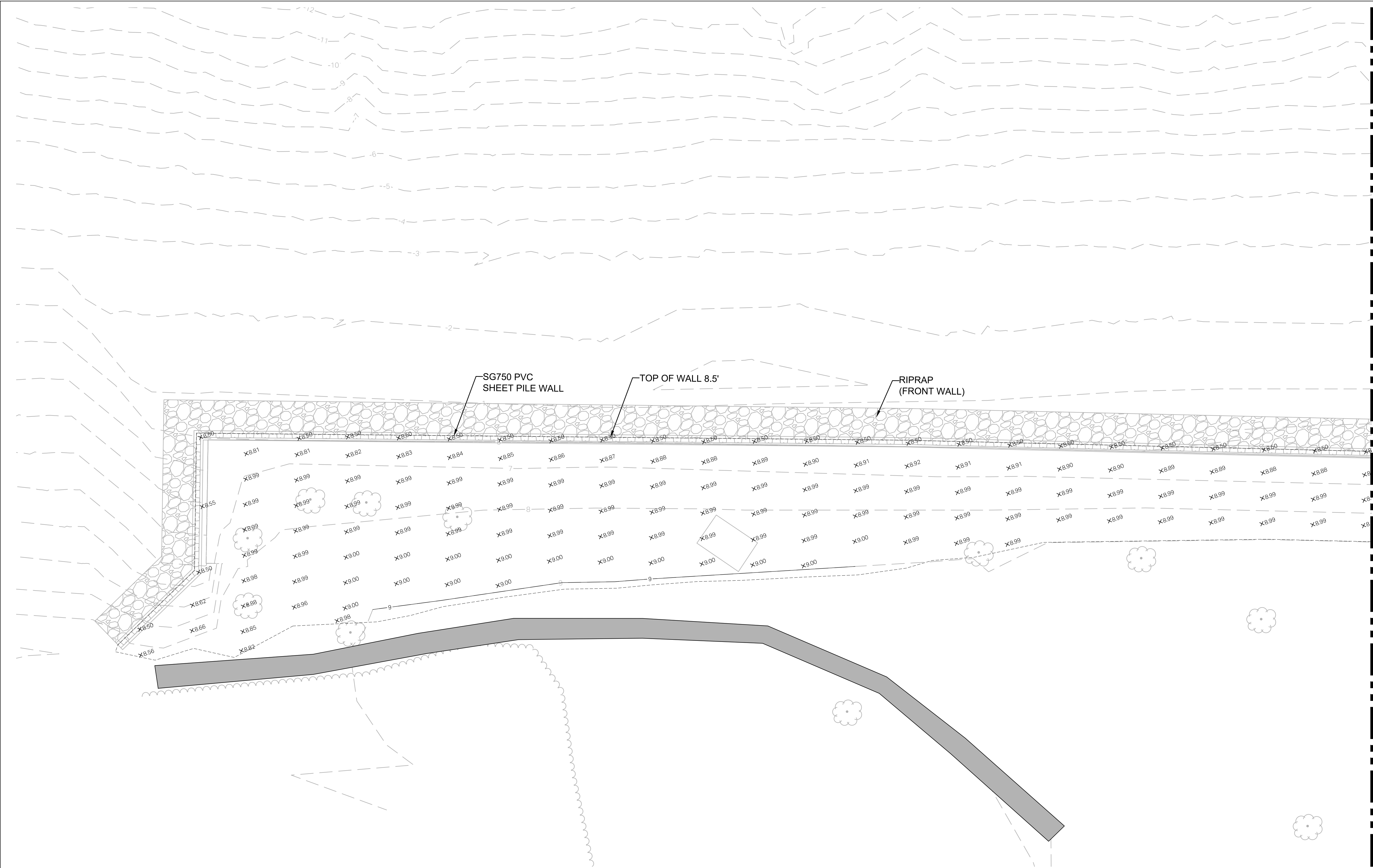
- DENOTES SOIL BORING LOCATION
- DENOTES CPT SOUNDING LOCATION
- REFERENCE BENCHMARK
- TEMPORARY BENCHMARK

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:52:57 -04'00'

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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	C1.5	SOIL BORING AND BENCHMARK LOCATION PLAN	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 14
	TECH. REVIEW: BHADRA			OF 27	
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



LEGEND

- WORK LIMIT
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADING LIMITS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- STONE RIPRAP
- PROPOSED SHEET PILE
- EXISTING TREE

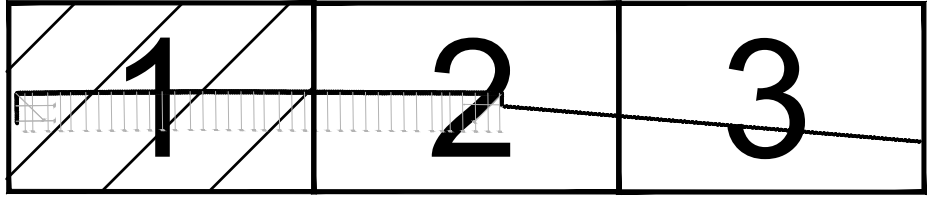
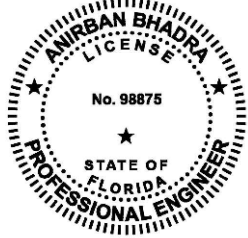
NOTES

- SOD ALL DISTURBED AREAS NOT OTHERWISE PAVED OR STABILIZED. SOD AND INSTALLATION SHALL CONFORM TO TECHNICAL SPECIFICATION SECTION 32 92 23. CONTRACTOR SHALL MAINTAIN SOD UNTIL FINAL ACCEPTANCE.

SEE MATCHLINE SHEET C1.7

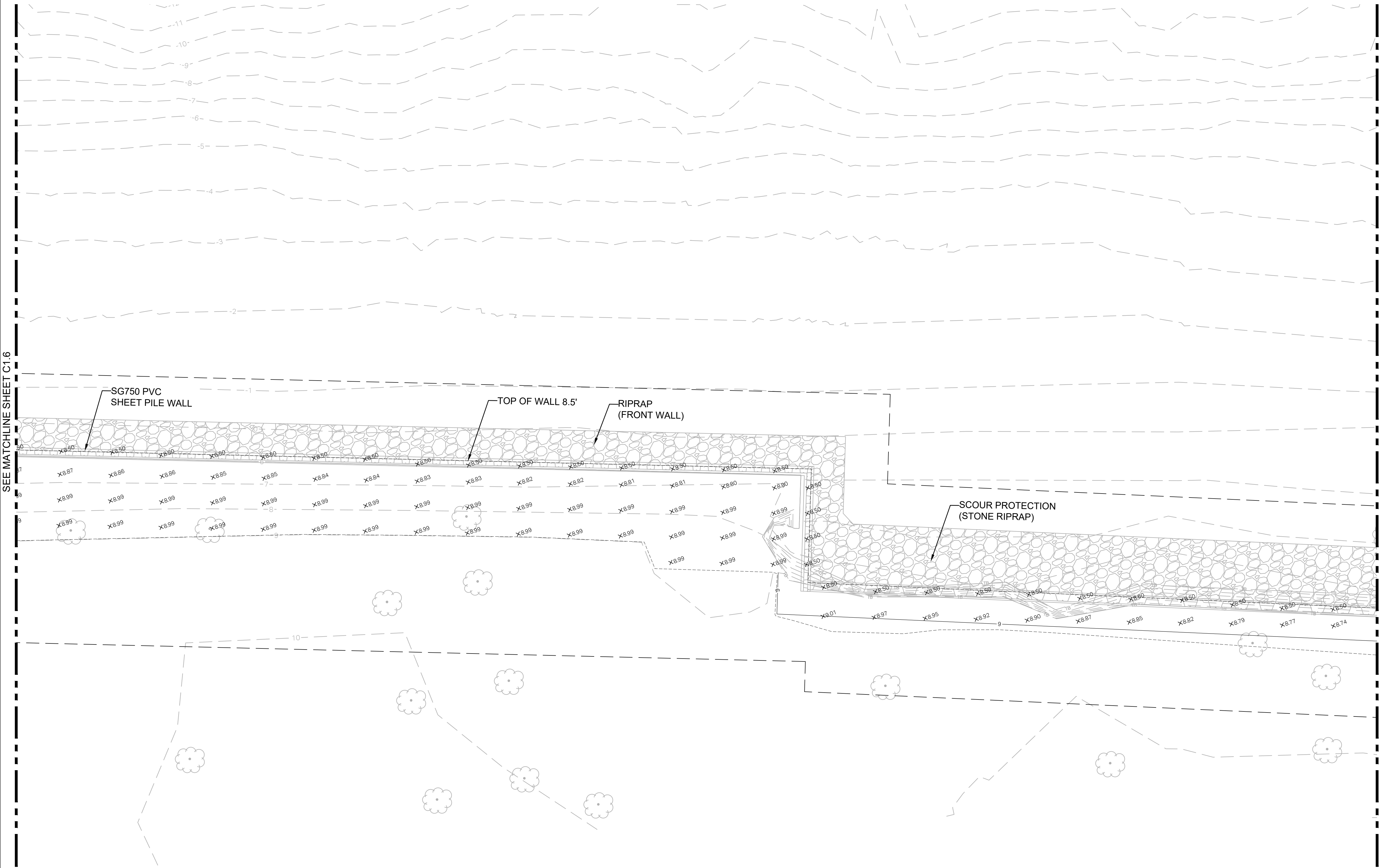
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KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	<u>SUB SHEET NO.</u> C1.6	TITLE OF SHEET GRADING PLAN 1	DRAWING NO. 006 191524		
	CADD: KARTHI			PMIS NO. 335507	SHEET 15	
	TECH. REVIEW: BHADRA					OF 27
	DATE: 04/01/2026					
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE						



LEGEND

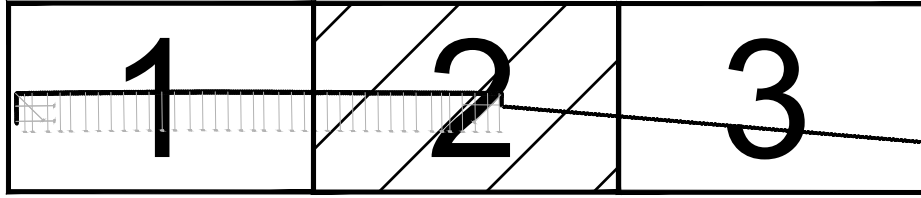
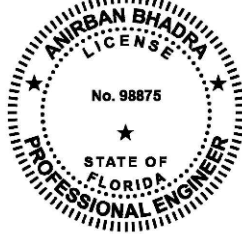
- WORK LIMIT
- 5 PROPOSED MAJOR CONTOUR
- 6 PROPOSED MINOR CONTOUR
- GRADING LIMITS
- 5 EXISTING MAJOR CONTOUR
- 6 EXISTING MINOR CONTOUR
- TB TOP OF BANK
- STONE RIPRAP
- PROPOSED SHEET PILE
- EXISTING TREE

NOTES

- SOD ALL DISTURBED AREAS NOT OTHERWISE PAVED OR STABILIZED. SOD AND INSTALLATION SHALL CONFORM TO TECHNICAL SPECIFICATION SECTION 32 92 23. CONTRACTOR SHALL MAINTAIN SOD UNTIL FINAL ACCEPTANCE.

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:53:42 -04'00'

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KEY MAP

A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	SUB SHEET NO. C1.7	TITLE OF SHEET GRADING PLAN 2	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 16
	TECH. REVIEW: BHADRA			OF 27	
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	

Technical drawing of a coastal defense structure, showing a cross-section of a wall and riprap. The drawing includes contour lines, elevation markers, and labels for various components.

Labels and Callouts:

- UC-95 FRP CANTILEVER SHEET PILE WALL
- SCOUR PROTECTION (STONE RIPRAP)
- TOP OF WALL 8.5'
- UC-95 FRP SHEET PILE RETURN WALL
- RIPRAP (RETURN WALL)

Elevation Markers:

- 8.72
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— WORK LIMIT

— 5 — PROPOSED MAJOR CONTOUR

— 6 — PROPOSED MINOR CONTOUR

— DASHED — GRADING LIMITS

— 5 — EXISTING MAJOR CONTOUR

— 6 — EXISTING MINOR CONTOUR

— TB — TOP OF BANK

— TS — TOP OF SLOPE

 STONE RIPRAP

 PROPOSED SHEET PILE

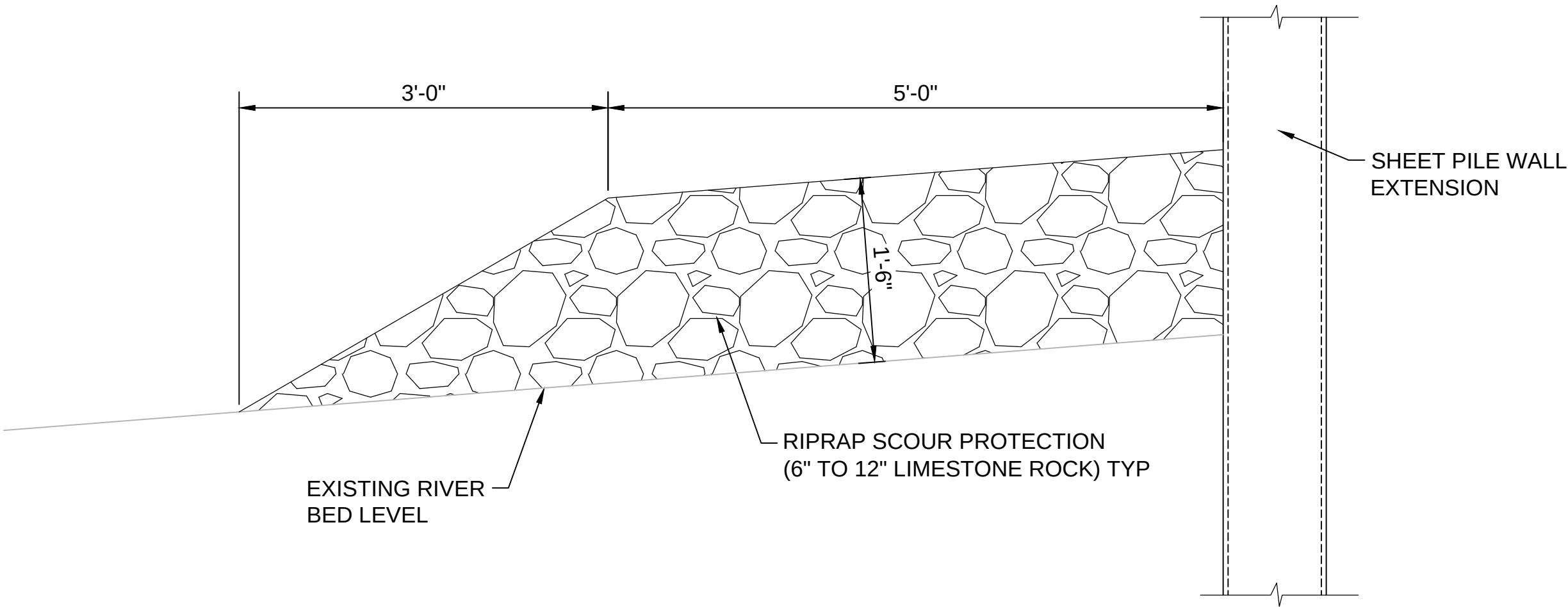
 EXISTING TREE

1. SOD ALL DISTURBED AREAS NOT OTHERWISE
PAVED OR STABILIZED. SOD AND INSTALLATION
SHALL CONFORM TO TECHNICAL SPECIFICATION
SECTION 32 92 23. CONTRACTOR SHALL
MAINTAIN SOD UNTIL FINAL ACCEPTANCE.

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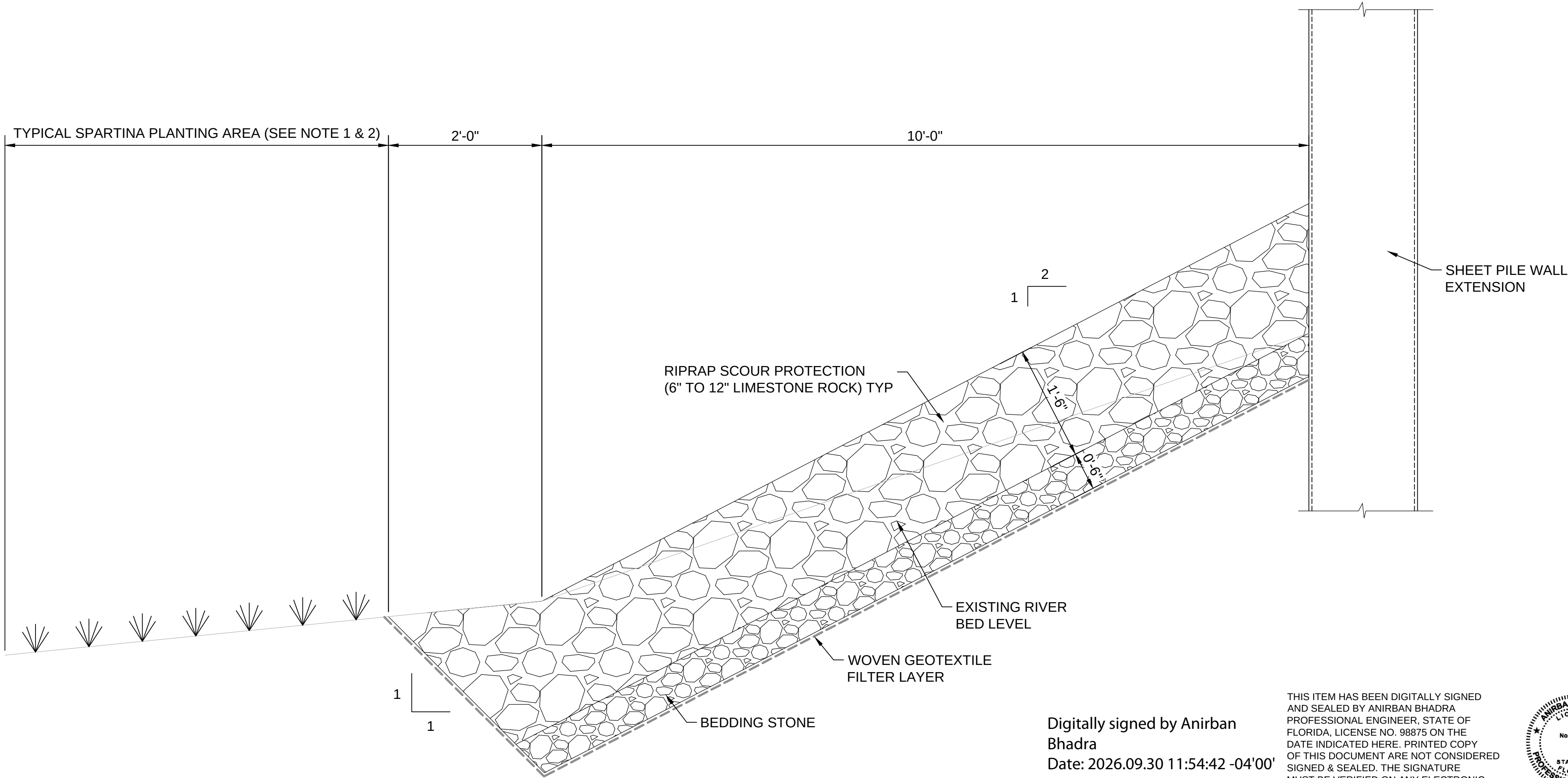


A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED:	SUB SHEET NO. C1.8	TITLE OF SHEET GRADING PLAN 3		DRAWING NO.	
	POFF				<u>006</u> 191524	
	CADD:					
	KARTHI					
	TECH. REVIEW:					
BHADRA					PMIS NO.	SHEET
DATE:					335507	17
04/01/2026						OF 27
			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE			



C
S3.1 TYPICAL HAND INSTALLED RIPRAP DETAILS - PVC SHEET PILE WALL SECTION IN FRONT OF EXISTING WALL
SCALE: 1" = 1'

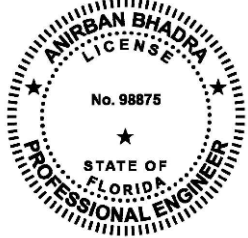
- NOTES**
1. THE CONTRACTOR SHALL PLANT THE SALTMEADOW CORDGRASS (SPARTINA PATENS) IN THE AREA EXTENDING FROM THE NEWLY INSTALLED EXTENSION WALL RIPRAP TOE OUT TO +2 FEET NAVD88 CONTOUR LINE. SPACING FOR SPARTINA PATENS SHALL BE 1 FEET ON CENTER IN A STAGGERED (TRANGLE) DISTRIBUTION.
 2. THE CONTRACTOR SHALL PLANT THE SMOOTH CORDGRASS (SPARTINA ALTERNIFOLIA) WATERWARD OF PLANTED SALTMEADOW CORDGRASS (SPARTINA PATENS) BETWEEN +2 FEET NAVD88 CONTOUR LINE AND THE +1.95 NAVD88 MEAN HIGH WATER LINE. SPACING FOR SPARTINA ALTERNIFOLIAOF SHALL BE 5 FEET ON CENTER IN A STAGGERED (TRANGLE) DISTRIBUTION.



D
S3.2 TYPICAL RIPRAP DETAILS - SHEET PILE WALL EXTENSION
SCALE: 1" = 1'

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:54:42 -04'00'

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A/E FIRM PRIME/CIVIL/STRUCT:	DESIGNED: POFF CADD: KARTHI TECH. REVIEW: BHADRA DATE: 04/01/2026	SUB SHEET NO. C3.1	TITLE OF SHEET RIP RAP DETAILS	DRAWING NO. 006 191524 SHEET 18 OF 27
AECOM SAVANNAH, GA			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	

[illegible]

AECOM					Log of Boring ATS-02									
					PROJECT: TIMU Kingsley Plantation Shoreline-Seawall PROJECT LOCATION: Kingsley Plantation Jacksonville, FL PROJECT NUMBER: 60728299									
DATE STARTED: 4/16/2024 DATE COMPLETED: 4/16/2024 LOGGED BY: S.Thapa CHECKED BY: A.White DRILLING CONTRACTOR: Sun Coast Drill DRILL RIG: Diedrich D-25 (Track) DRILLER: Jordan Walters			DRILL METHOD: Mud Rotary HAMMER TYPE/WEIGHT: Automatic/140lbs CASING TYPE: N/A CASING SIZE: N/A BIT TYPE/SIZE: Drag/N/A BOREHOLE DEPTH: 50.0 FT SURFACE ELEVATION: 10 FT			Groundwater Observations								
						Event		Date	Time	Depth (ft)	Cave in Depth (ft)			
						Encountered ▽		04-16-2024	13:53	7.8	48.2			
						24-hour reading ▼		04-17-2024	13:30	9.6	13.8			
DEPTH (FT) ELEV. (FT)														
DESCRIPTION			USCS	GRAPHIC STRATUM	NUMBER	SAMPLES TYPE	BLOWS (Uncorrected N-Values)	REC (IN) (%)	Moderate Content (%)	Liquid Limit	Plastic Limit	Pocket Pen. (ksi)	Fines Content (%)	REMARKS AND TESTS
0.0 - 24.0 ft: Moist, very loose, dark brown, POORLY GRADED SAND			SP	B	S-1	2-1-1-2 (N=2)	18 (75%)	5.8	NP	NP		3.6		
2.0 ft: Changes to light brown					S-2	1-2-1-1 (N=3)	17 (71%)							
6.0 ft: Changes to dark blackish brown					S-3	3-1-1-1 (N=2)	14 (58%)							
8.0 ft: Changes to loose, light grayish white					S-4	2-2-1-1 (N=3)	18 (75%)							
					S-5	3-3-4-6 (N=7)	21 (88%)							24.5
13.0 ft: Changes to Wet, medium dense, light brown			CH	B	S-6	5-6-7-7 (N=13)	13 (54%)							
19.0 ft: Changes to dense, light gray					S-7	7-15-20-22 (N=35)	13 (54%)							
24.0 - 26.0 ft: Wet, stiff, dark gray, FAT CLAY WITH SAND, Lot of clay fragments					S-8	3-4-8-7 (N=12)	24 (100%)							
24.0 - 26.0 ft: Wet, stiff, dark gray, FAT CLAY WITH SAND, Lot of clay fragments (continued)			SC		S-9	3-4-4-6 (N=8)	24 (100%)	31.6	42	17		41.2		
26.0 - 30.0 ft: Wet, loose, dark gray, CLAYEY SAND					S-10	2-1-1-1 (N=2)	24 (100%)							
30.0 - 38.0 ft: Wet, very loose, dark gray, POORLY GRADED SAND WITH CLAY			SP-SC	B	S-11	9-13-8-5 (N=21)	17 (71%)	23.2	NP	NP		7.2		
38.0 - 50.0 ft: Wet, medium dense, dark gray, POORLY GRADED SAND WITH SILT					S-12	13-30-23-25 (N=53)	15 (63%)							
43.0 ft: Changes to very dense			SP-SM		S-13	22-20-16-12 (N=36)	15 (63%)							
48.0 ft: Changes to dense														
Boring completed at 50.0 FT on 4/16/2024 at 13:50 HOURS. Boring backfilled with cement/bentonite grout through tremie pipe after last groundwater measurement. NE = Not Encountered, NP = Non-Plastic, NR = No Recovery														

NOTES

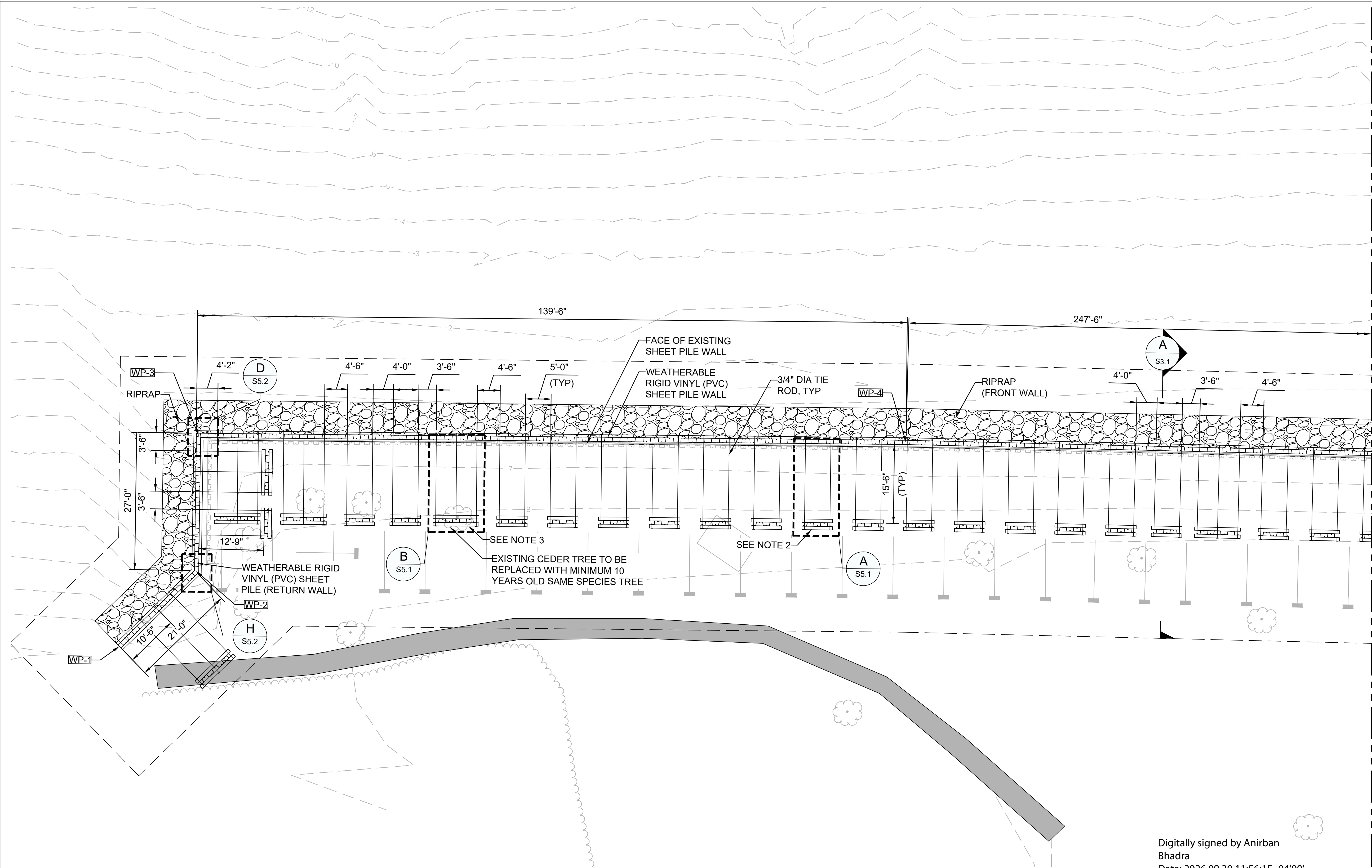
1. GEOTECHNICAL DATA COLLECTION LISTED HEREIN WAS COLLECTED IN 04/2024. REFER TO AECOM GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING REPORT" DATED APRIL 14TH 2025.
2. FOR BORING LOCATIONS SEE DRAWING C1.5.

Digitally signed by Anirban
Bhadra
Date: 2026.09.30 11:55:10 -04'00'

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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: POFF	SUB SHEET NO. C6.1	TITLE OF SHEET SOIL BORING LOGS 1	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 19
	TECH. REVIEW: BHADRA			OF	27
	DATE: 04/01/2026			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	



LEGEND

- WORK LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- STONE RIPRAP
- EXISTING SHEET PILE
- PROPOSED SHEET PILE
- EXISTING TREE

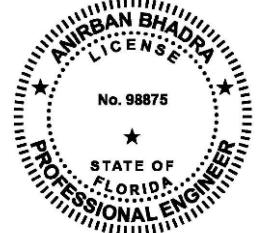
NOTES

- PROPOSED STRUCTURAL ELEMENTS ARE SHOWN IN BLACK ON THIS SHEET SERIES. ELEMENTS SHOWN IN GRAY INDICATE EXISTING CONDITION.
- SHEET PILE WALL PLAN TYPE I - FOR DETAIL REFER SHEET S5.1.
- SHEET PILE WALL PLAN TYPE II - FOR DETAIL REFER SHEET S5.1.
- THE LOCATION OF SUBSURFACE STRUCTURAL ELEMENTS IS APPROXIMATE. ALL DEMOLITION SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER IN WRITING OF ANY DISCREPANCIES IN PLAN.
- THE WORKING POINTS (WP) ARE BASED ON TOPOGRAPHIC SURVEY. THE CONTRACTOR MUST SITE VERIFY ALL POINTS. ANY DISCREPANCIES MUST BE REPORTED TO THE CONTRACTING OFFICER.
- THE CONTRACTOR MUST NOT REMOVE ANY TREE FOR CONSTRUCTING DEADMAN WALL OR INSTALLING TIE ROD. THE CONTRACTOR MUST INFORM THE CONTRACTING OFFICER IF ANY TREE IS PRESENT AT THE DEADMAN OR TIE ROD LOCATION.
- ALL PALM TREES AT THE EXCAVATION AREA MUST BE PROTECTED DURING THE CONSTRUCTION PERIOD IN ACCORDANCE WITH FDOT FY 2026-27 STANDARD PLAN 110-100, TREE PROTECTION AND PRESERVATION.

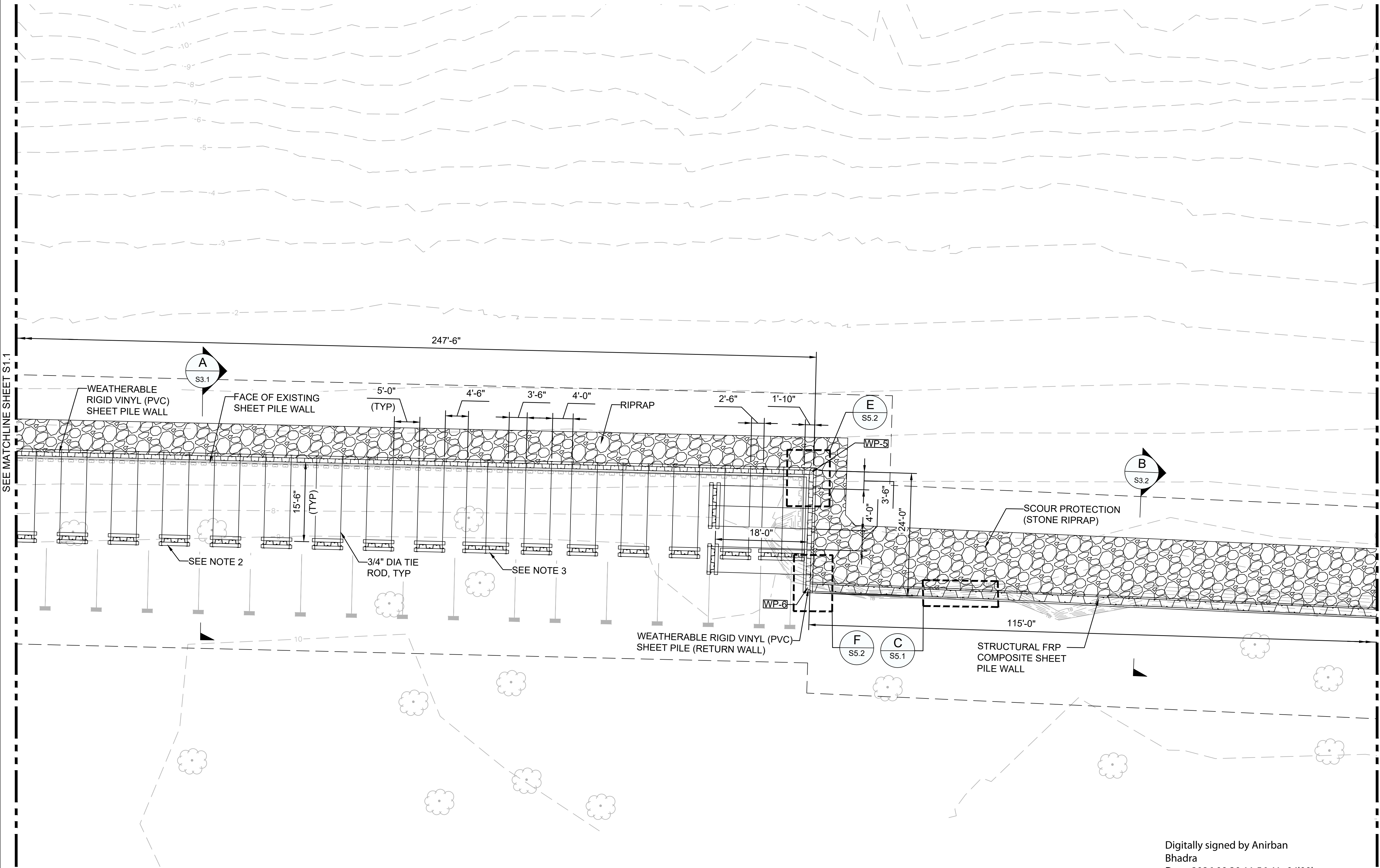
WORKING POINT TABLE		
WORKING POINT #	NORTHING	EASTING
WP-1	2220416.95	517939.29
WP-2	2220425.85	517958.51
WP-3	2220450.97	517967.73
WP-4	2220403.63	518098.53

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:56:15 -04'00'

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A/E FIRM PRIME/CIVIL/STRUCT: AECOM SAVANNAH, GA	DESIGNED: BHADRA	SUB SHEET NO. S1.1	TITLE OF SHEET GENERAL LAYOUT PLAN 1	DRAWING NO. 006 191524
	CADD: KARTHI			
	TECH. REVIEW: POFF			PMIS NO. 335507
	DATE: 04/01/2026			SHEET 21 OF 27
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE				



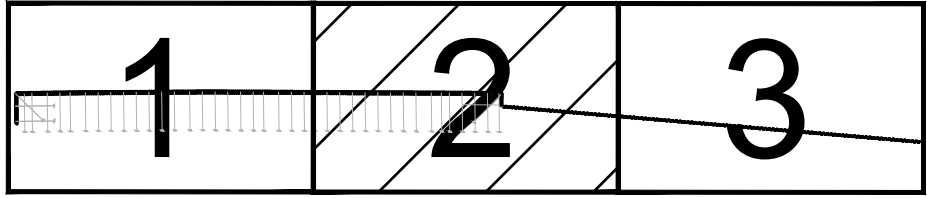
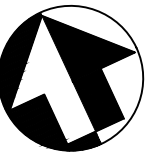
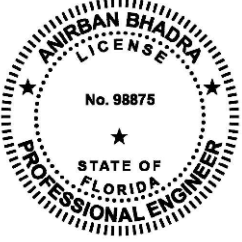
- LEGEND**
- WORK LIMIT
 - 0 --- EXISTING MAJOR CONTOUR
 - 16 --- EXISTING MINOR CONTOUR
 - TB --- TOP OF BANK
 - STONE RIPRAP
 - EXISTING SHEET PILE
 - PROPOSED SHEET PILE
 - EXISTING TREE

- NOTES**
- PROPOSED STRUCTURAL ELEMENTS ARE SHOWN IN BLACK ON THIS SHEET SERIES. ELEMENTS SHOWN IN GRAY INDICATE EXISTING CONDITION.
 - SHEET PILE WALL PLAN TYPE I - FOR DETAIL REFER SHEET S5.1.
 - SHEET PILE WALL PLAN TYPE II - FOR DETAIL REFER SHEET S5.1.
 - THE LOCATION OF SUBSURFACE STRUCTURAL ELEMENTS IS APPROXIMATE. ALL DEMOLITION SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER IN WRITING OF ANY DISCREPANCIES IN PLAN.
 - THE WORKING POINTS (WP) ARE BASED ON TOPOGRAPHIC SURVEY. THE CONTRACTOR MUST SITE VERIFY ALL POINTS. ANY DISCREPANCIES MUST BE REPORTED TO THE CONTRACTING OFFICER.
 - THE CONTRACTOR MUST NOT REMOVE ANY TREE FOR CONSTRUCTING DEADMAN WALL OR INSTALLING TIE ROD. THE CONTRACTOR MUST INFORM THE CONTRACTING OFFICER IF ANY TREE IS PRESENT AT THE DEADMAN OR TIE ROD LOCATION.
 - ALL PALM TREES AT THE EXCAVATION AREA MUST BE PROTECTED DURING THE CONSTRUCTION PERIOD IN ACCORDANCE WITH FDOT FY 2026-27 STANDARD PLAN 110-100, TREE PROTECTION AND PRESERVATION.

WORKING POINT TABLE		
WORKING POINT #	NORTHING	EASTING
WP-5	2220316.30	518329.67
WP-6	2220295.27	518321.56

Digitally signed by Anirban Bhadra
Date: 2026.09.30 11:56:41 -04'00'

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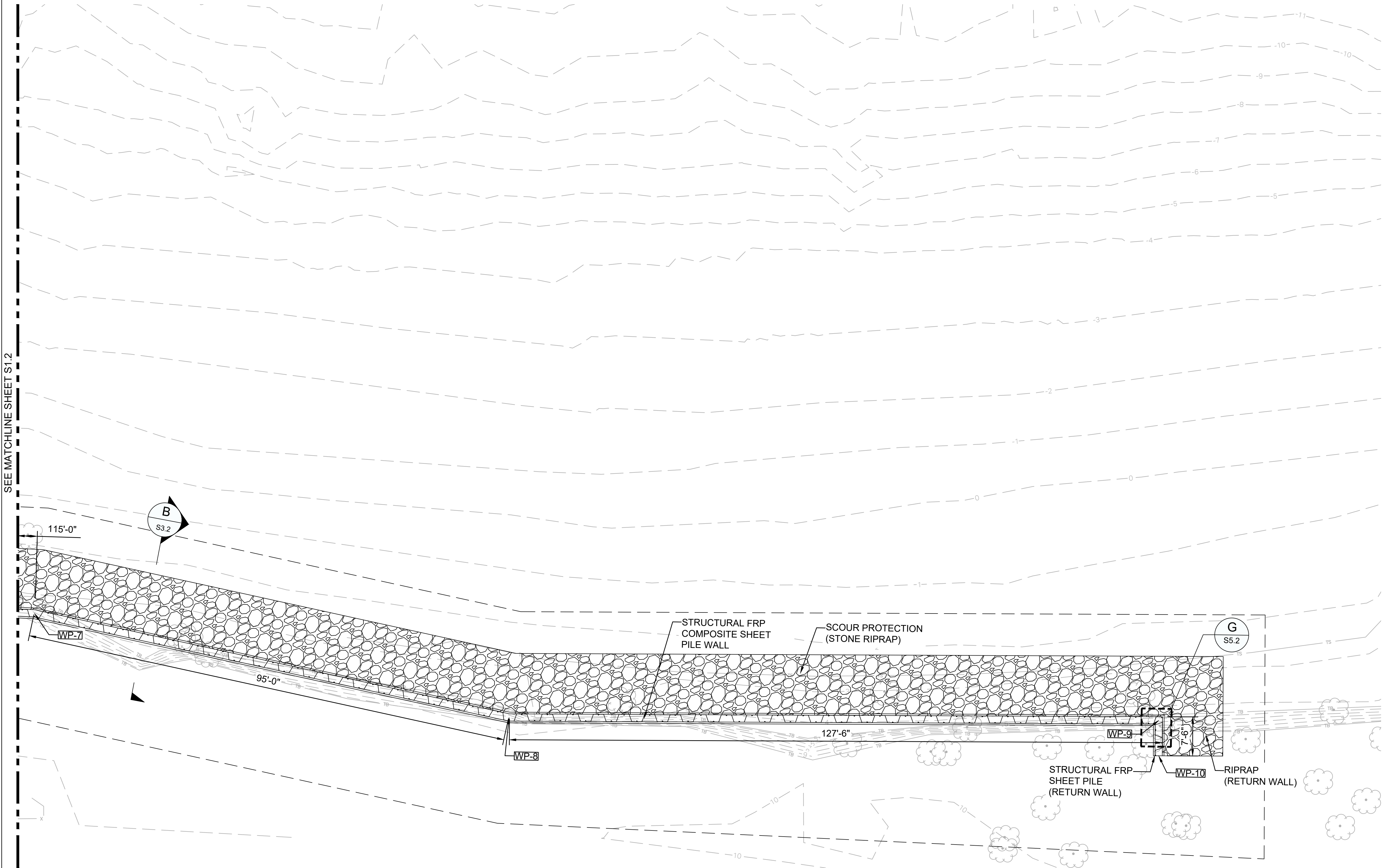


KEY MAP

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF SHEET		DRAWING NO.
PRIME/CIVIL/STRUCT:	BHADRA		GENERAL LAYOUT PLAN 2		006
	CADD:				191524
	KARTHI				
	TECH. REVIEW:				
	POFF		TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE		
	DATE:				
	04/01/2026				

S1.2

PMIS NO.	SHEET
335507	22
	OF 27



LEGEND

- WORK LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TB TOP OF BANK
- TS TOP OF SLOPE
- STONE RIPRAP
- PROPOSED SHEET PILE
- EXISTING TREE

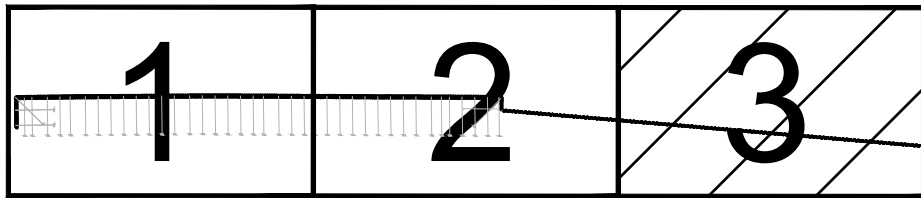
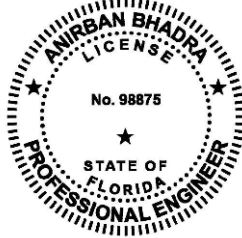
NOTES

- PROPOSED STRUCTURAL ELEMENTS ARE SHOWN IN BLACK ON THIS SHEET SERIES. ELEMENTS SHOWN IN GRAY INDICATE EXISTING CONDITION.
- THE WORKING POINTS ARE BASED ON TOPOGRAPHIC SURVEY. THE CONTRACTOR MUST SITE VERIFY ALL POINTS. ANY DISCREPANCIES MUST BE REPORTED TO THE CONTRACTING OFFICER.
- THE CONTRACTOR MUST NOT REMOVE ANY TREE FOR CONSTRUCTING DEADMAN WALL OR INSTALLING TIE ROD. THE CONTRACTOR MUST INFORM THE CONTRACTING OFFICER IF ANY TREE IS PRESENT AT THE DEADMAN OR TIE ROD LOCATION.
- ALL PALM TREES AT THE EXCAVATION AREA MUST BE PROTECTED DURING THE CONSTRUCTION PERIOD IN ACCORDANCE WITH FDOT FY 2026-27 STANDARD PLAN 110-100, TREE PROTECTION AND PRESERVATION.

WORKING POINT TABLE		
WORKING POINT #	NORTHING	EASTING
WP-7	2220252.24	518428.59
WP-8	2220202.31	518509.43
WP-9	2220159.73	518629.15
WP-10	2220153.20	518626.83

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Date: 2026.09.30 11:57:05 -04'00'

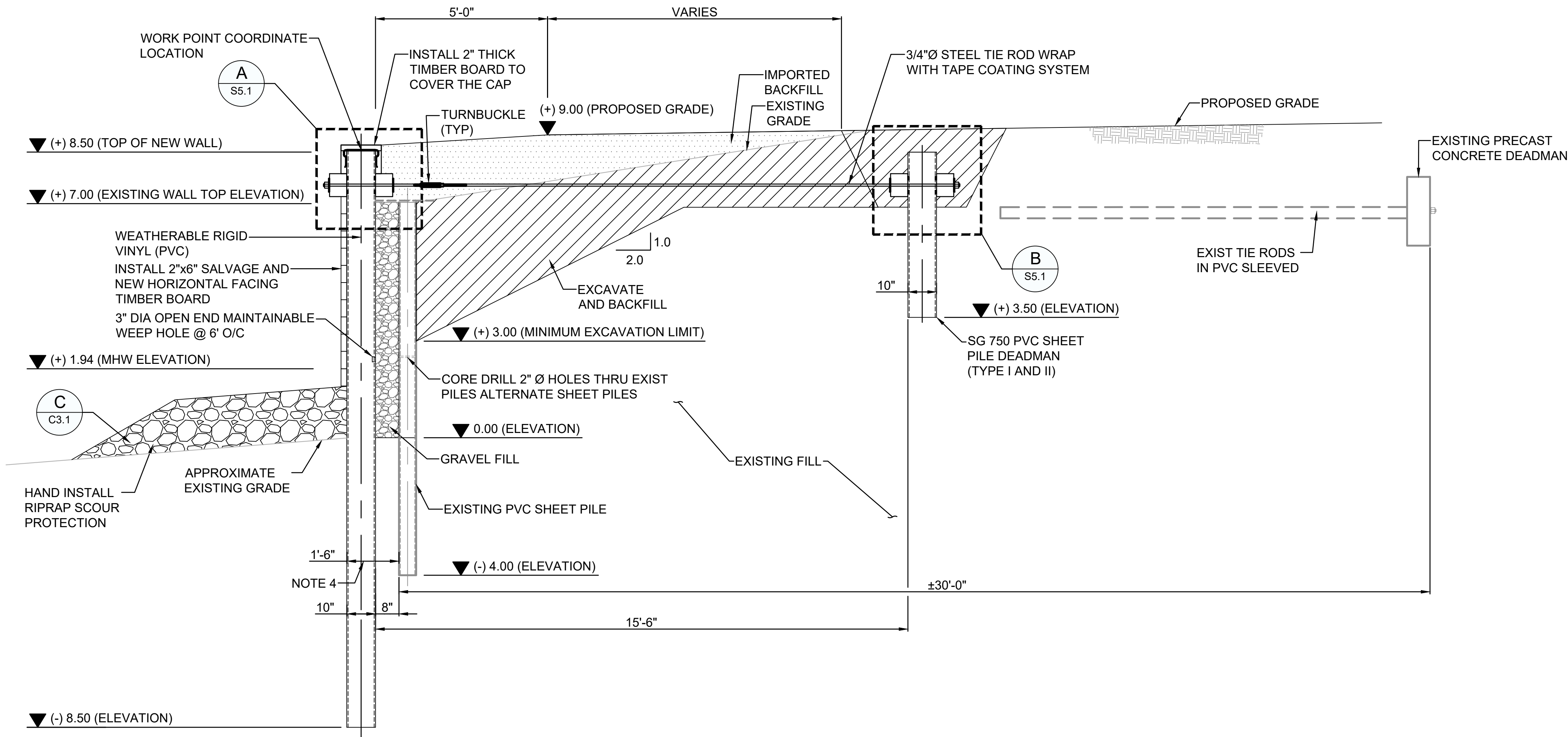
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KEY MAP

A/E FIRM	DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
PRIME/CIVIL/STRUCT:	BHADRA	S1.3	GENERAL LAYOUT PLAN 3	006
AECOM	CADD:			191524
SAVANNAH, GA	KARTHI			
	TECH. REVIEW:			
	POFF			
	DATE:			
	04/01/2026			
			TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE	

PMIS NO.	SHEET
335507	23
	OF 27



A
TYPICAL PVC SHEET PILE WALL SECTION IN FRONT OF EXISTING WALL
SCALE: 1" = 2'
S1.1 AND S1.2

NOTES

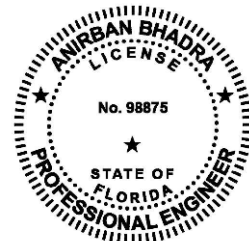
- PROPOSED STRUCTURAL ELEMENTS ARE SHOWN IN BLACK ON THIS SHEET SERIES. ELEMENTS SHOWN IN GRAY INDICATE EXISTING CONDITION.
- THE CONTRACTOR MUST EXCAVATE, BACKFILL, COMPACT AND GRADE THE SITE TO THE ELEVATIONS AND LIMITS SHOWN AND AS NEEDED TO MEET THE REQUIREMENT.
- SELECT BACKFILL SOILS MUST BE IMPORTED TO THE SITE TO MEET THE SPECIFICATION FOR SELECT STRUCTURAL BACKFILL.
- MAXIMUM DISTANCE BETWEEN EXISTING AND NEW WALL FACE MUST BE 1'-6".
- ALL TIE ROD AND ACCESSORIES SHALL BE HOT DIP GALVANIZED AND PROCURED FROM THE SAME MANUFACTURER.
- TURNBUCKLE MUST CONFORM TO ASTM A307 GRADE A OR APPROVED EQUIVALENT. TURNBUCKLE MUST BE PURCHASED FROM SAME MANUFACTURER AS TIE RODS. TENSIONING DOES NOT INDUCE EXCESSIVE DEFLECTIONS INTO THE WALL. TENSIONING PROCEDURE SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- THE MAINTAINABLE WEEPHOLES MUST BE 3" DIAMETER, 316L STAINLESS STEEL HOUSING WITH WOVEN GEOTEXTILE FILTER. REMOVABLE CARTRIDGE MUST ALLOW FOR CLEANING REPLACING NOT LESS THAN 3 TO 5 YEARS.

CONSTRUCTION SEQUENCE EXISTING SHEET PILE WALL MODIFICATION

- EXCAVATE EXISTING EARTH FILL BEHIND THE EXISTING WALL WITH A DEPTH AND SLOPE AS SHOWN ON PLANS.
- DEMOLISH AND SALVAGE/DISPOSE TIMBER FACING BOARDS IN FRONT OF EXISTING WALL.
- CORE DRILL HOLES THROUGH THE EXISTING WALL FROM RIVER SIDE WITH A SPACING SHOWN ON PLANS.
- DEMOLISH AND DISPOSE EXISTING TIMBER WALL CAP, WALERS AND TIE RODS.
- DRIVE NEW SHEET PILE WALL IN FRONT OF EXISTING WALL AS SHOWN IN THE DRAWING. PILE DRIVING MUST BE FROM THE LAND SIDE OF EXISTING WALL.
- DRIVE LAND SIDE DEADMAN WALLS AS SHOWN ON PLANS.
- INSTALL WALER BEAMS, SHEET PILE CAP AND TIE RODS BETWEEN NEW SHEET PILE WALL AND DEADMAN WALL.
- BACKFILL THE GAP BETWEEN EXISTING AND NEW WALL WITH GRAVEL FILL AND PLACE NONWOVEN GEOTEXTILE FILTER ON TOP OF THE GRAVEL FILL.
- BACKFILL REMAINING AREA WITH EXCAVATED AND IMPORTED BACKFILL AND COMPACT.
- RE-INSTALL SALVAGED AND NEW TIMBER FACING BOARD INFRONT AND TOP OF NEW SHEET PILE WALL. ADDITIONAL BOARDS TO BE PROCURED AND INSTALLED.
- INSTALL MAINTAINABLE WEEPHOLES AS PER THE MANUFACTURER'S RECOMMENDATION.
- HAND INSTALL RIPRAP STONES AT RIVER BED, INFRONT OF THE NEW SHEET PILE WALL.

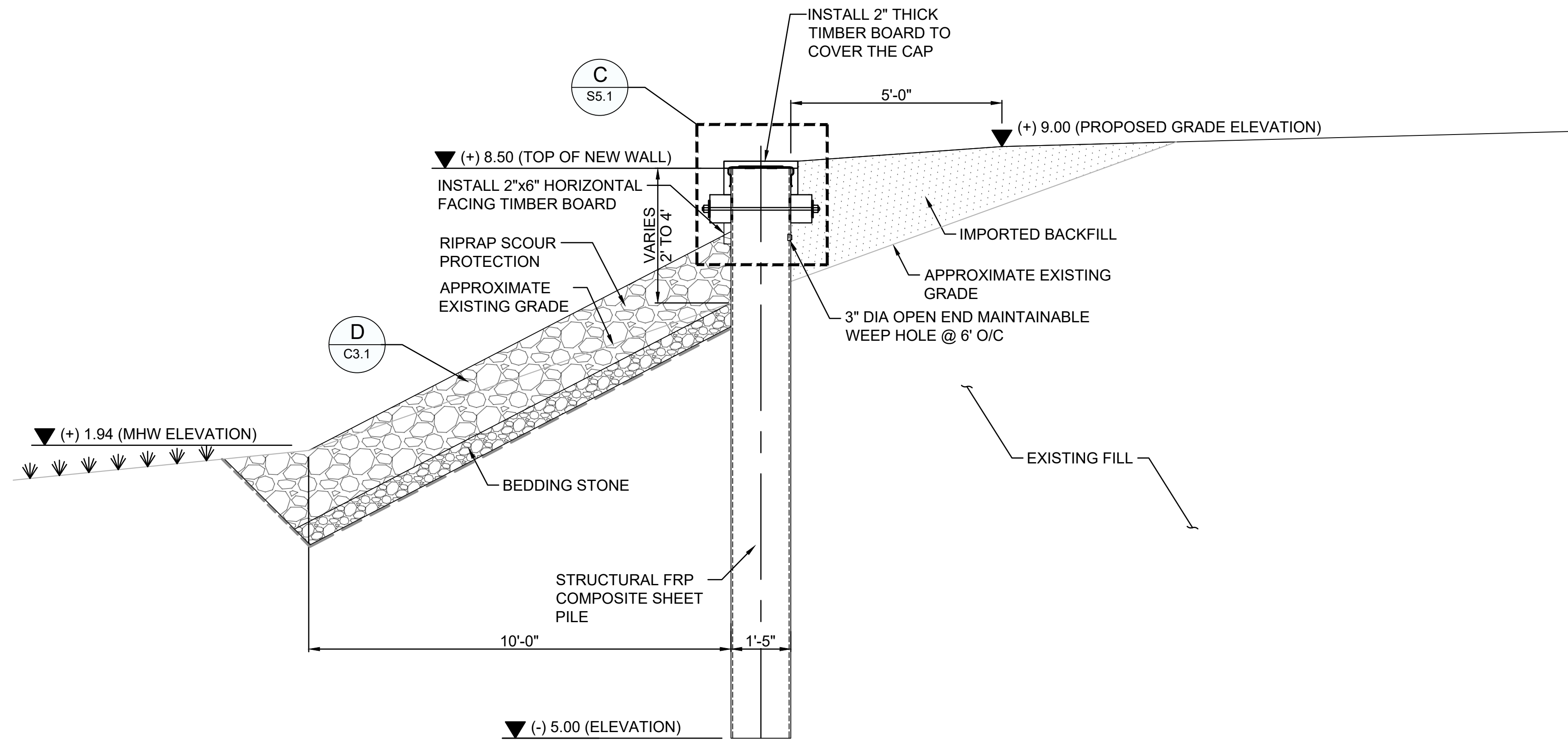
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2 0 2 4
SCALE OF FEET

A/E FIRM PRIME/CIVIL/STRUCT. AECOM SAVANNAH, GA	DESIGNED: BHADRA	SUB SHEET NO. S3.1	TITLE OF SHEET SHEET PILE WALL SECTION 1	DRAWING NO. 006 191524	
	CADD: KARTHI			PMIS NO. 335507	SHEET 24
	TECH. REVIEW: POFF				OF 27
	DATE: 04/01/2026				
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE					



B
TYPICAL SECTION SHEET PILE WALL EXTENSION (FRP COMPOSITE SHEET PILE)
SCALE: 1" = 2'
S1.2 AND S1.3

NOTES

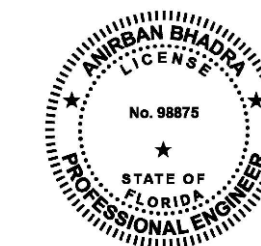
- PROPOSED STRUCTURAL ELEMENTS ARE SHOWN IN BLACK ON THIS SHEET SERIES. ELEMENTS SHOWN IN GRAY INDICATE EXISTING CONDITION.
- THE CONTRACTOR MUST BACKFILL, COMPACT AND GRADE THE SITE TO THE ELEVATIONS AND LIMITS SHOWN AND AS NEEDED TO MEET THE REQUIREMENT.
- SELECT BACKFILL SOILS MUST BE IMPORTED TO THE SITE TO MEET THE SPECIFICATION FOR SELECT STRUCTURAL BACKFILL.
- THE MAINTAINABLE WEEPHOLES MUST BE 3" DIAMETER, 316L STAINLESS STEEL HOUSING WITH WOVEN GEOTEXTILE FILTER. REMOVABLE CARTRIDGE MUST ALLOW FOR CLEANING REPLACING NOT LESS THAN 3 TO 5 YEARS.

CONSTRUCTION SEQUENCE (SHEET PILE WALL EXTENSION)

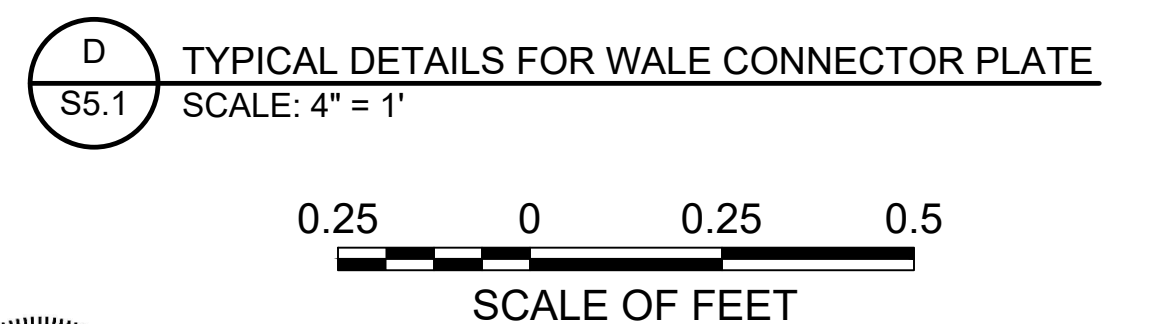
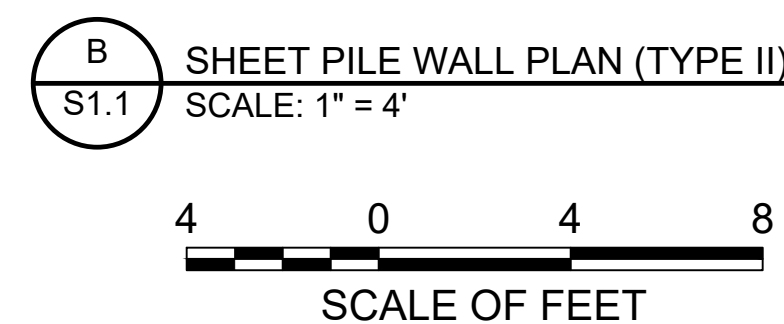
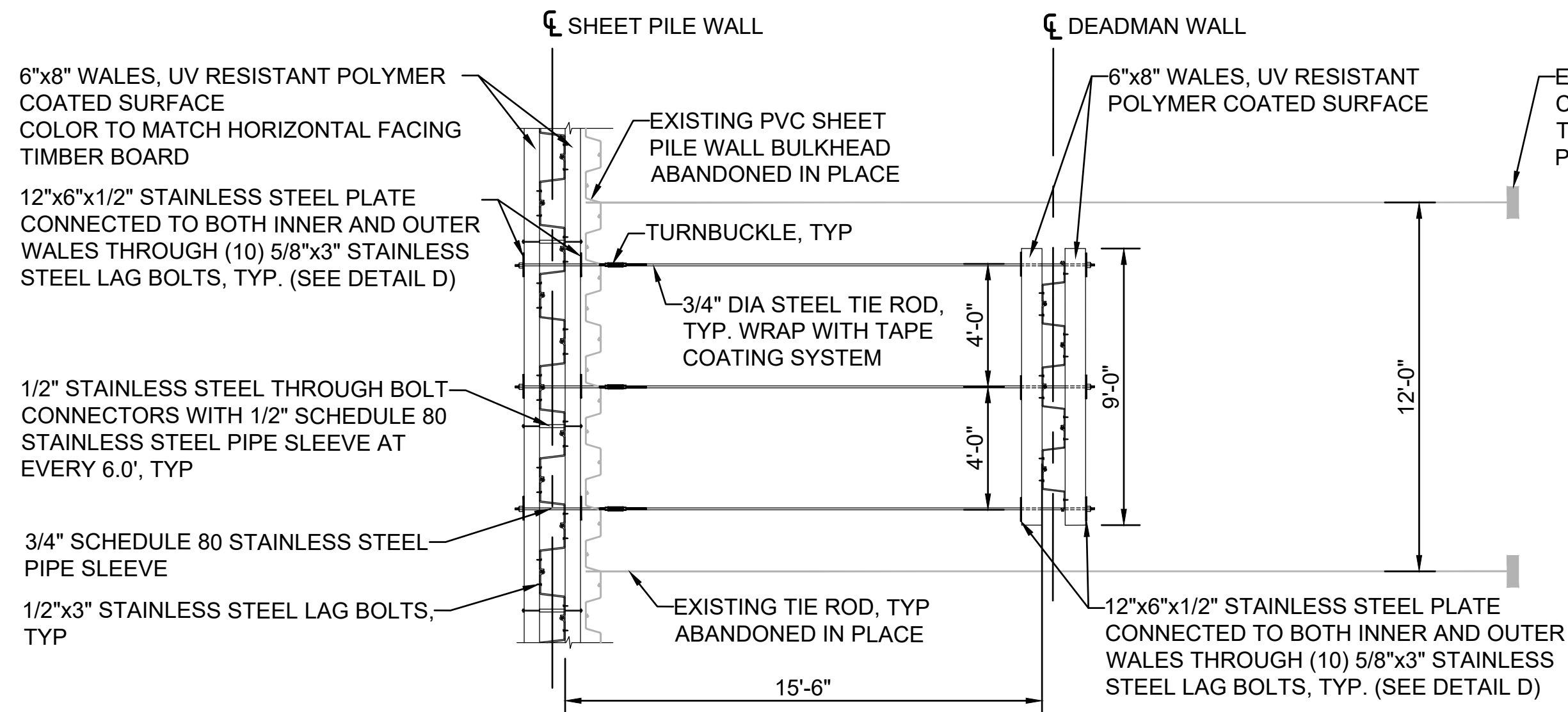
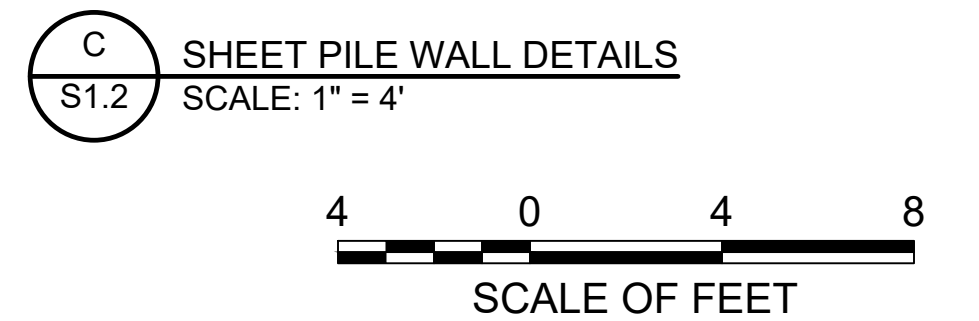
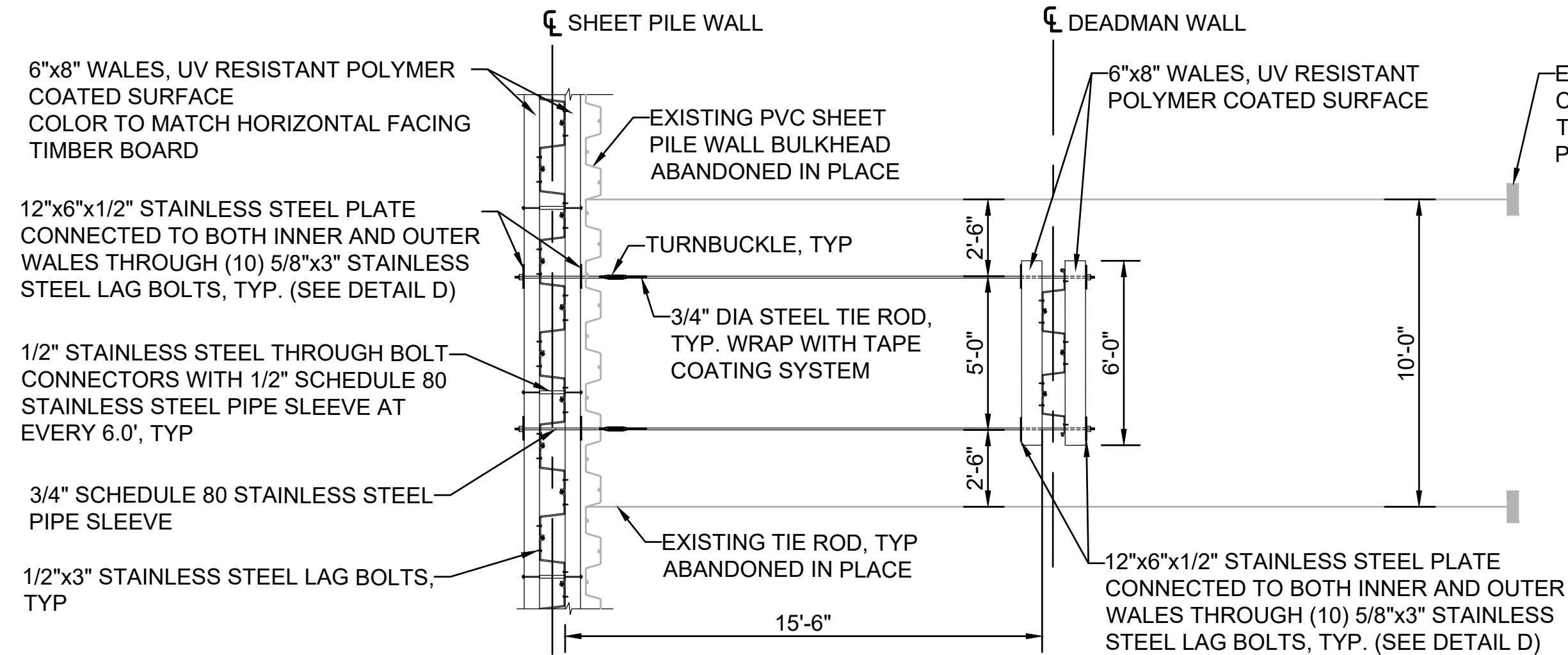
- CLEAR ALL EXISTING VEGETATION ALONG THE NEW SHEET PILE WALL ALIGNMENT.
- DRIVE NEW FRP SHEET PILES, INSTALL SHEET PILE CAP, WALER BEAMS. PILE DRIVING MUST BE FROM THE LAND SIDE OF PROPOSED WALL EXTENSION.
- BACKFILL WITH IMPORTED BACKFILL AND COMPACT BEHIND THE SHEET PILE WALL.
- INSTALL NEW HORIZONTAL FACING TIMBER BOARDS.
- INSTALL MAINTAINABLE WEEPHOLES AS PER THE MANUFACTURER'S RECOMMENDATION
- INSTALL RIPRAP STONE IN FRONT OF THE WALL.

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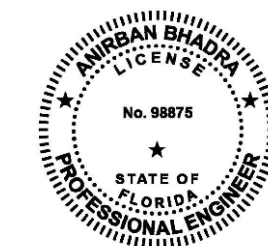
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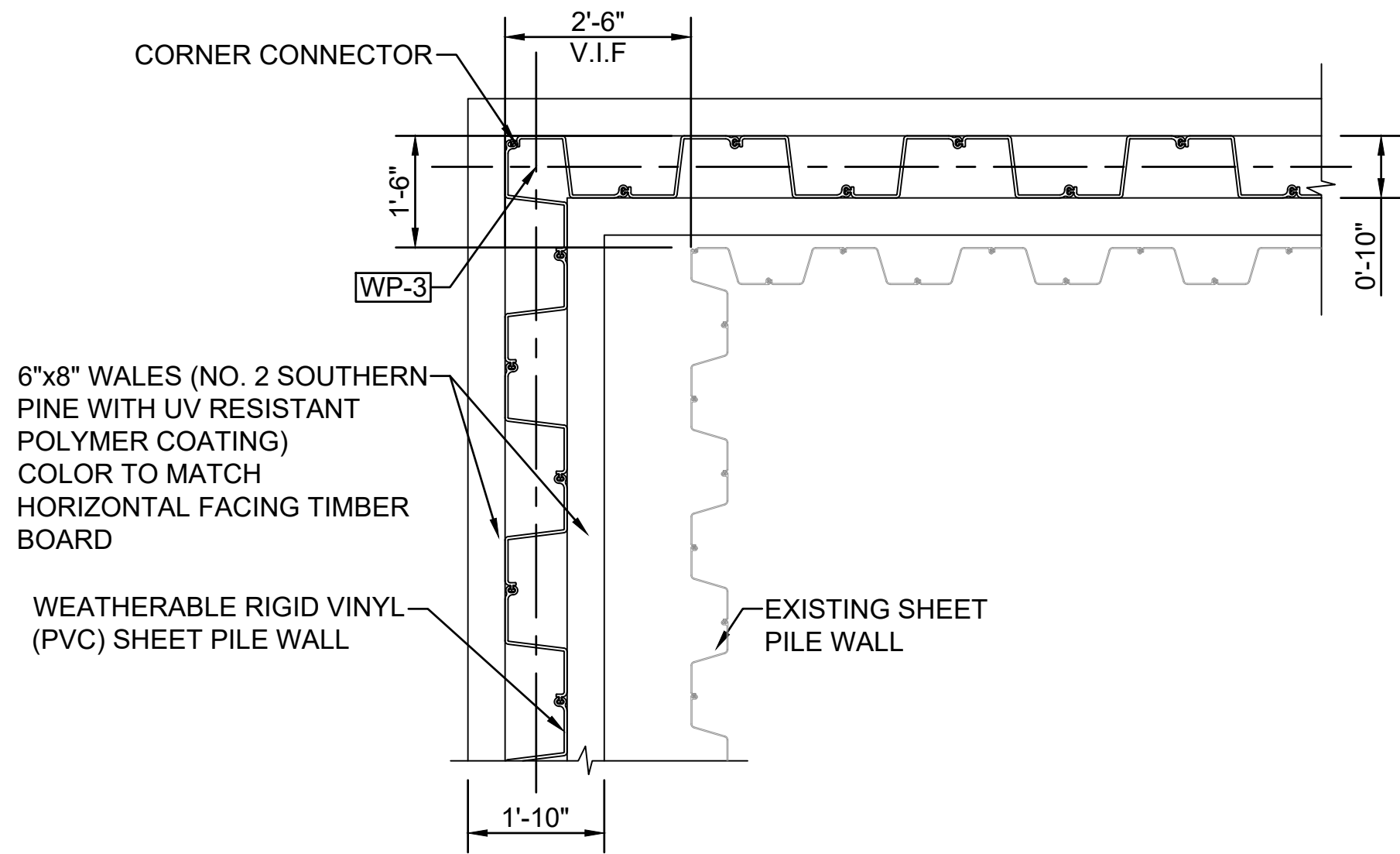
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	CADD: KARTHI			PMIS NO. 335507	SHEET 25	
	TECH. REVIEW: POFF					OF 27
	DATE: 04/01/2026					
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE						



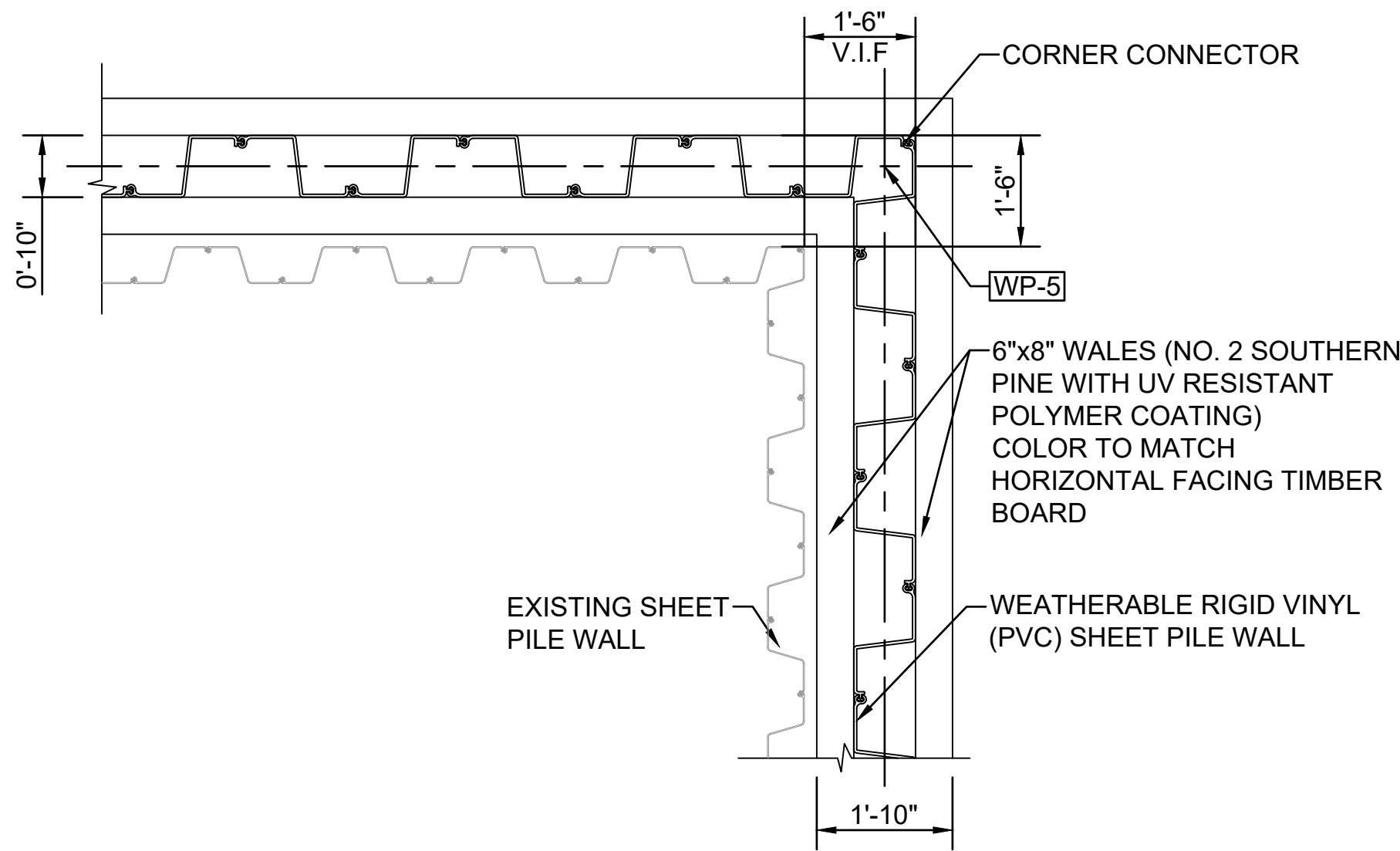
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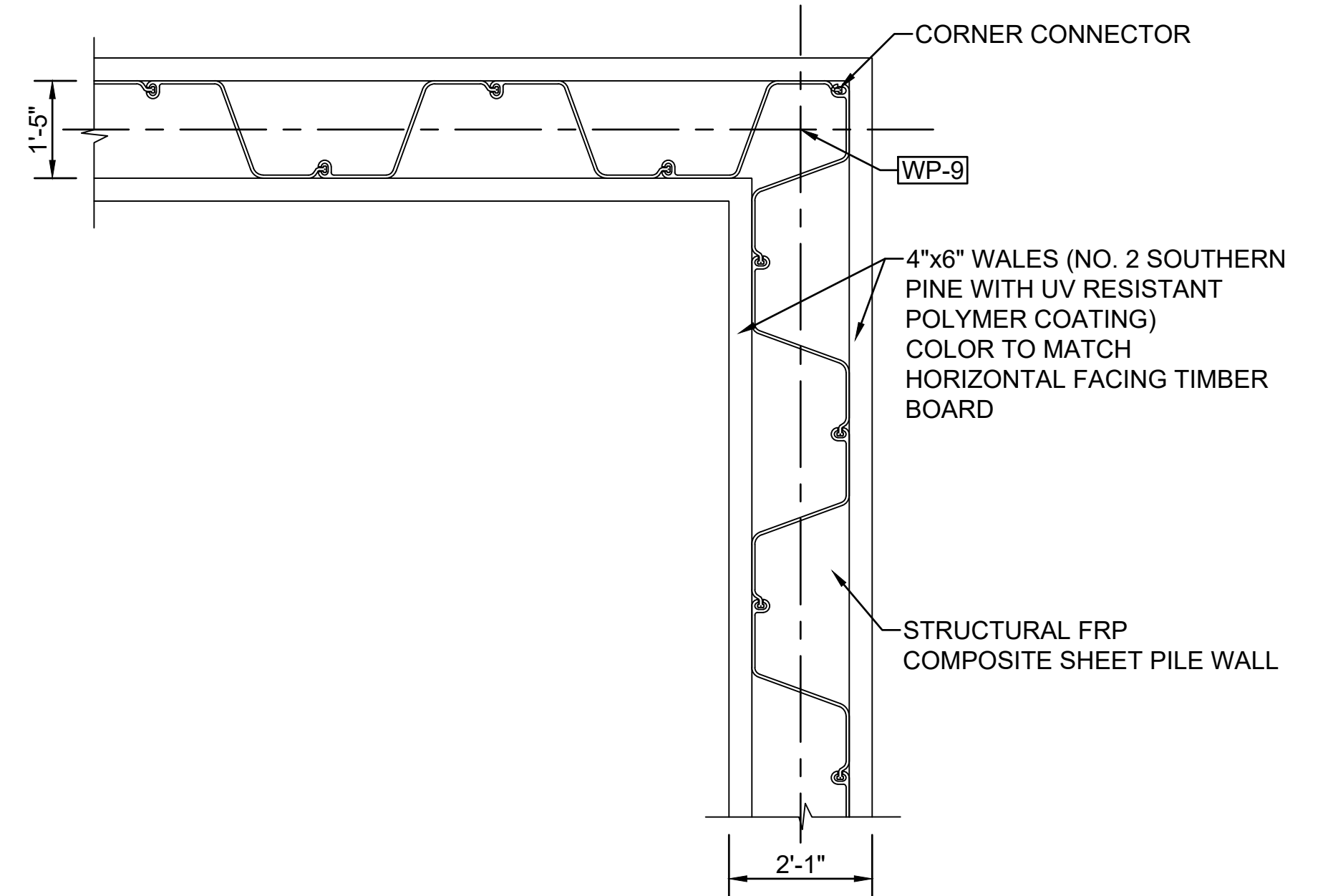
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	CADD:			006	
	TECH. REVIEW:			191524	
	POFF			PMIS NO. 335507	SHEET 26
	DATE:			OF 27	
	04/01/2026		TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE		



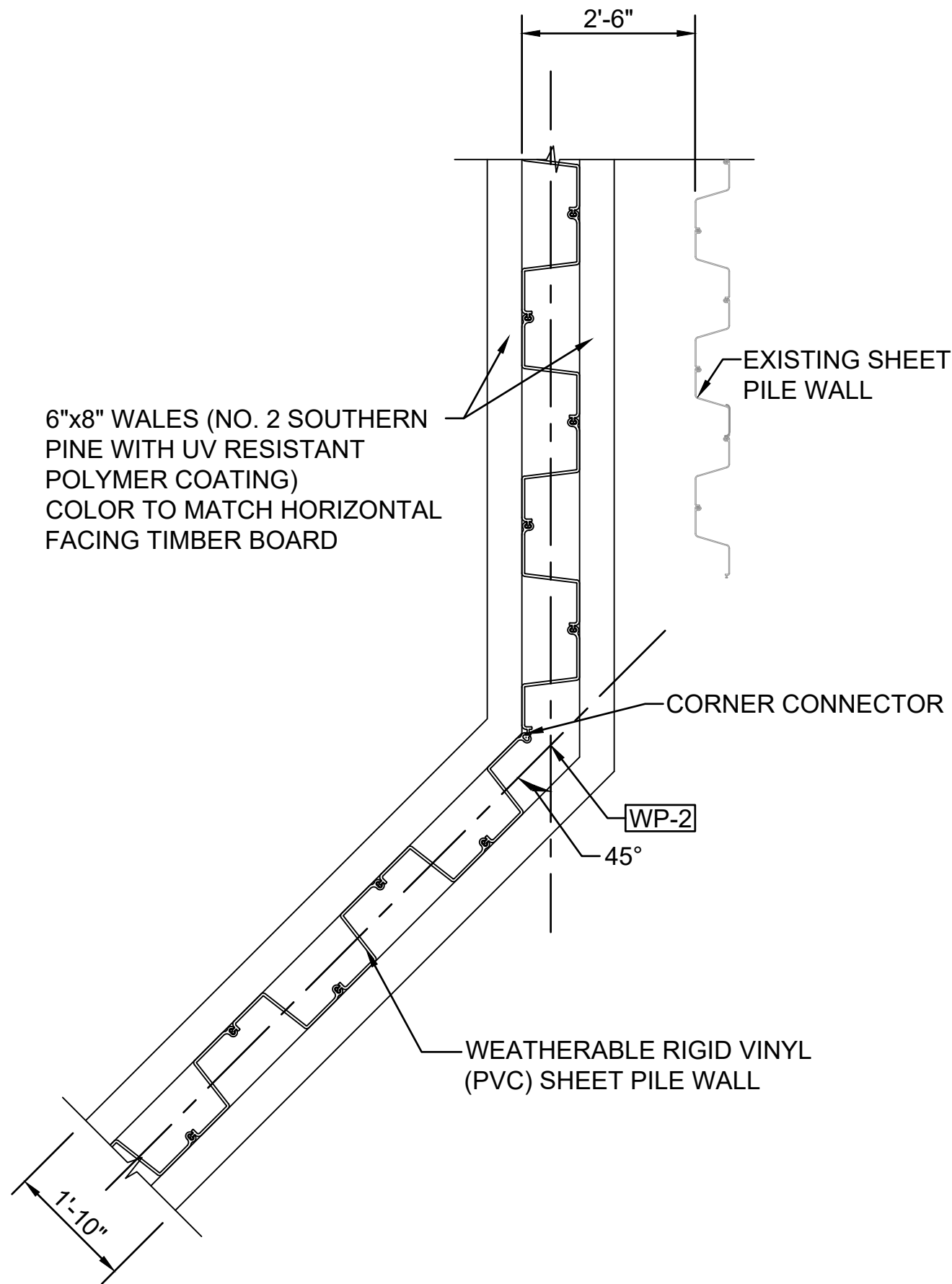
D
S1.1 SHEET PILE CORNER DETAIL
(TIE ROD AND ACCESSORIES NOT SHOWN FOR CLARITY)
SCALE: 1" = 2'



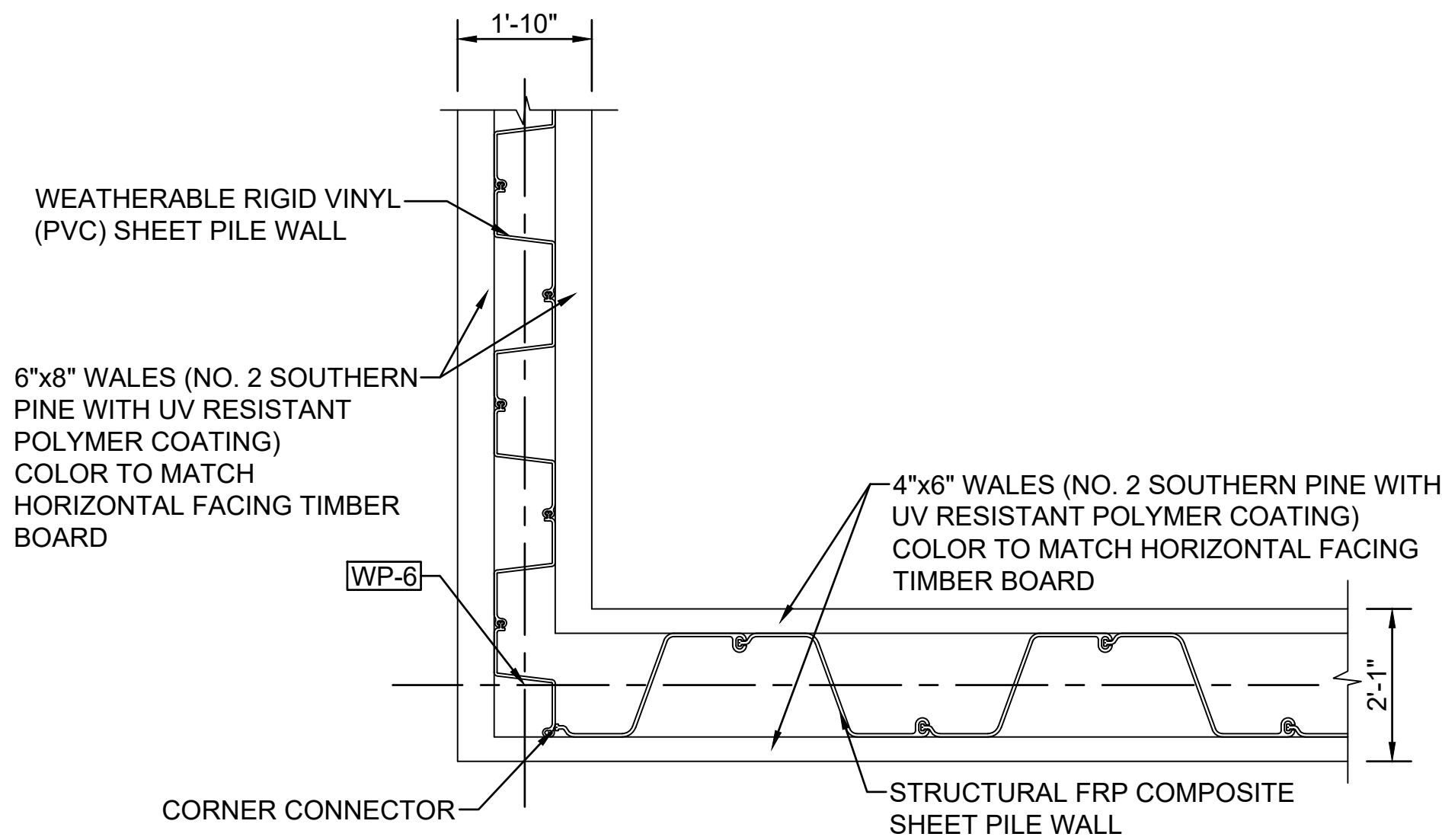
E
S1.2 SHEET PILE CORNER DETAIL
(TIE ROD AND ACCESSORIES NOT SHOWN FOR CLARITY)
SCALE: 1" = 2'



G
S1.3 SHEET PILE CORNER DETAIL
SCALE: 1" = 2'



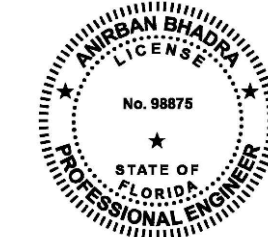
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S1.1 SHEET PILE CORNER DETAIL
(TIE ROD AND ACCESSORIES NOT SHOWN FOR CLARITY)
SCALE: 1" = 2'



F
S1.2 SHEET PILE CORNER DETAIL
(TIE ROD AND ACCESSORIES NOT SHOWN FOR CLARITY)
SCALE: 1" = 2'

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A/E FIRM PRIME/CIVIL/STRUCT:	DESIGNED: BHADRA CADD: KARTHI TECH. REVIEW: POFF DATE: 04/01/2026	SUB SHEET NO. S5.2	TITLE OF SHEET SHEET PILE WALL DETAILS 2	DRAWING NO. 006 191524
AECOM SAVANNAH, GA				PMIS NO. 335507 SHEET 27 OF 27
TIMUCUAN ECOLOGICAL & HISTORICAL PRESERVE				