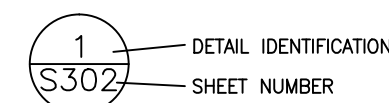
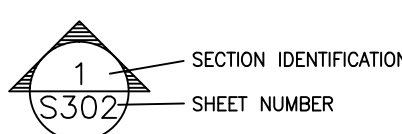


ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
B.T.	BUILT
BRK.	BRICK
BRKR.	BREAKER
BSMT.	BASEMENT
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
CONC.	CONCRETE
CU.	COPPER
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DIAM.	DIAMETER
DBL	DOUBLE
DST.	DRY-BULB TEMPERATURE
DEG.	DEGREE
DEPT.	DEPARTMENT
DF	DRINKING FOUNTAIN
DISC.	DISCONNECT
DL.	DEAD LOAD
DN.	DOWN
D.S.	DOWN SPOUT
DWG.	DRAWING
E.F.	EXHAUST FAN
EXP.	EXHAUST
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
FIN	FINISH
FL	FLOOR
FLUOR.	FLUORESCENT
FP	FIREPLACE
FR	FIRE RATING
FTG.	FOOTING
GALV.	GALVANIZED
GFI	GROUND FAULT CIRCUIT INTERRUPT
GOV'T.	GOVERNMENT
GR.FL.	GROUND FLOOR
GYP.	GYPSON
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HDR.	HEADER
HDWR.	HARDWARE
H.P.	HORSEPOWER
HT.	HEIGHT
HTR.	HEATER
HW.	HIGH VOLTAGE
HVAC.	HEATING, VENTILATING AND AIR CONDITIONING
HWY.	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INCAND.	INCANDESCENT
INCL.	INCLUDED
INSUL.	INSULATION
INT.	INTERIOR
INT. EL.	INVERT ELEVATION
JST.	JOIST
KD	KILN DRIED
KW	KILOWATT
KWH	KILOWATT HOUR
LAM.	LAMINATED
LAV.	LAVATORY
LB	POUND
LTG.	LIGHTING
LGTH.	LENGTH
LN.	LINEAR
LL	LIVE LOAD
MANUF.	MANUFACTURE
MAX.	MAXIMUM
MF.	MILL FINISH
MFL.	MINIMUM
MLDG.	MOLDING
MHW.	MEAN HIGH WATER
MHHW.	MEAN HIGHER HIGH WATER
MLW.	MEAN LOW WATER
MLLW.	MEAN LOWER LOW WATER
MSL	MEAN SEA LEVEL
MOD.	MODIFICATION
NTS	NOT TO SCALE
NO./#	NUMBER
OA	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFC.	OFFICE
O/H	OVER HEAD
OPP.	OPPOSITE
PARTN.	PARTITION
PC	PORTLAND CEMENT
P.C.F.	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PERP.	PERPENDICULAR
PL	PLATE
PLG.	PLING
PLYWD.	PLYWOOD
PNL	PANEL
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
OS	QUARTER SAWN
R	RADIUS
RCPT.	RECEPTACLE
REINB.	REINFORCING BAR
REFRIG.	REFRIGERATION
RENF.	REINFORCING
RFG.	ROOFING
ROH	ROUGH
RM	ROOM
R.O.	ROUGH OPENING
RS	ROUGH SAWN
S.C.	SOLID CORE
SCH.	SCHEDULE
SDG.	SIDING
SECT.	SECTION
SFTWD	SOFTWOOD
SGD	SLIDING GLASS DOOR
SH	SHINGLES
SPEC	SPECIFICATION
SPR	SPRUCE
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS	STAINLESS STEEL
STB.	STEEL
SUB. FL.	SUBFLOOR
SUP.	SUPPLY
SW	SWITCH
SYM.	SYMMETRICAL
S.Y.P.	SOUTHERN YELLOW PINE
SYS.	SYSTEM
S4S	SURFACED FOUR SIDES
TEL	TELEPHONE
T&G	TONGUE-AND-GROOVE
TYP.	TYPICAL
U.E.	UNDERGROUND ELECTRIC
U.G.	UNDER GROUND
UL	UNDERWRITERS LABORATORIES, INC.
V.	VOLT
VENT.	VENTILATOR
VERT.	VERTICAL
VF.	VERIFY IN FIELD
VOL.	VOLUME
VP	VENT PIPE
VTR.	VENT THRU ROOF
W.	WATER
WBT.	WET BULB TEMPERATURE
WC	WATER CLOSET
WD	WOOD
WF	WATERPROOF
WWF.	WELDED WIRE FABRIC
YD.	YARD

REFERENCE LEGEND



O'LENO STATE PARK

DISTRICT 2

Alachua and Columbia County

Boardwalk Replacement

PROJECT #61559C

SCOPE OF PROJECT

REPAIR EXISTING BOARDWALKS:

- BOARDWALK #1 (APPROX. 6 FT WIDE X 31 FT LONG)
- BOARDWALK #2 (APPROX. 6 FT WIDE X 60 FT LONG)
- BOARDWALK #3 (APPROX. 6 FT WIDE X 67 FT LONG)
- BOARDWALK #4 (APPROX. 6 FT WIDE X 61 FT LONG)
- BOARDWALK #5 (APPROX. 6 FT WIDE X 70 FT LONG)
- BOARDWALK #6 (APPROX. 7 FT WIDE X 35 FT LONG)

REPAIR DAMAGED PORTIONS AND PERFORM WORK AT EACH OF THE NOTED BOARDWALKS.

CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND PERFORM ALL WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

APPLICABLE CODES

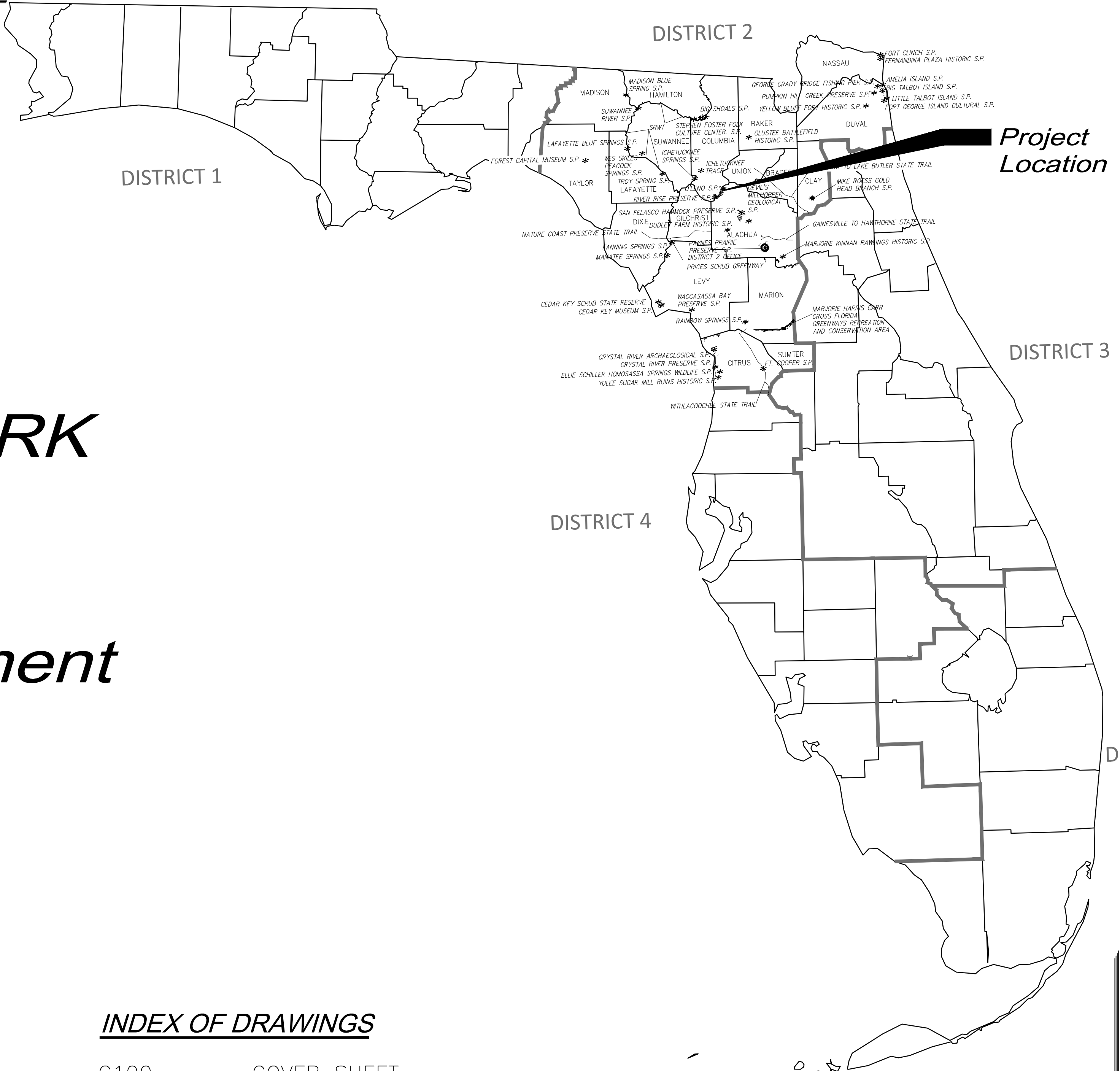
FLORIDA BUILDING CODE, BUILDING-8th EDITION (2023)
FLORIDA BUILDING CODE, EXISTING BUILDING-8th EDITION (2023)

HANDICAPPED ACCESSIBILITY CODE

FLORIDA BUILDING CODE, BUILDING-8th EDITION (2023)
FLORIDA ACCESSIBILITY CODE

FDOT STRUCTURES MANUAL, JANUARY 2022 AND SUBSEQUENT
STRUCTURES DESIGN BULLETINS.

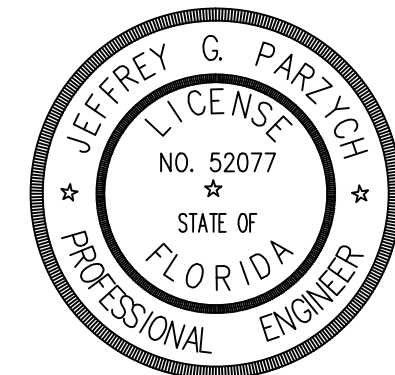
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DESIGN
SPECIFICATIONS LOAD RESISTANCE FACTOR (LRFD) BRIDGE DESIGN, 9th EDITION



INDEX OF DRAWINGS

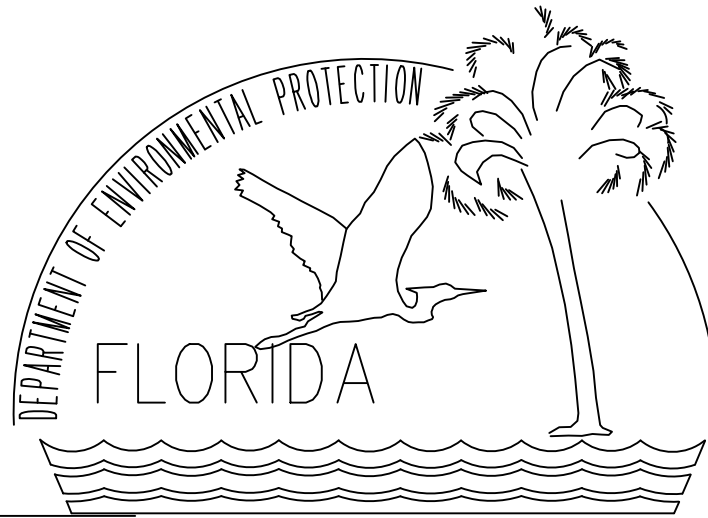
- G100 COVER SHEET
- C100 SITE LOCATION MAP & AERIAL OVERVIEW
- S101 STRUCTURAL NOTES
- S102 GENERAL NOTES
- S201.1 EXISTING BOARDWALK FRAMING PLAN AND PROFILE
- S201.2 EXISTING BOARDWALK FRAMING PLANS, PROFILES AND BENT SECTIONS
- S202.1 REPAIRED BOARDWALKS 1 & 2 (FRAMINGS PLAN AND PROFILES)
- S202.2 REPAIRED BOARDWALKS 3 & 4 (FRAMINGS PLAN AND PROFILES)
- S202.3 REPAIRED BOARDWALKS 5 & 6 (FRAMINGS PLAN AND PROFILES)
- S301 BOARDWALK SECTIONS
- S302 BOARDWALK ELEVATIONS AND SECTIONS
- S303 SECTIONS AND DETAILS
- S304 BEST MANAGEMENT PRACTICES

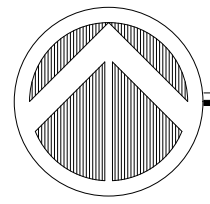
ENGINEER OF RECORD:



Jeffrey G. Parzych
FL PE# 52077

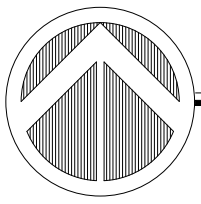
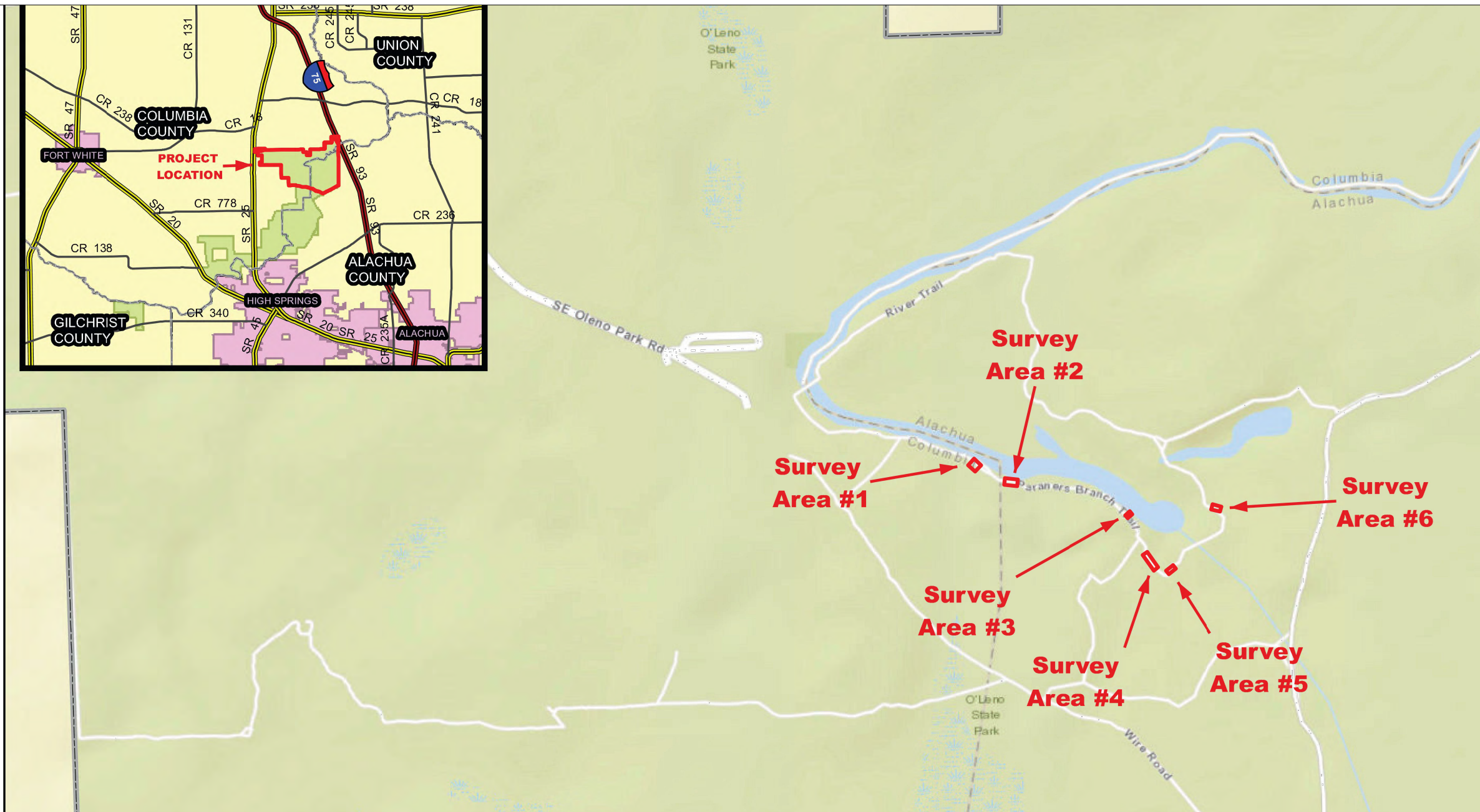
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AERIAL OVERVIEW

NTS



SITE LOCATION MAP

NTS

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SHEET NO.		SHEET TITLE		DESIGNER :	JGP	DRAWN BY:	AJV	REVIEWED BY:	JGP	ISSUE DATE:	11/28/24	COMP. FILE No.:	STATE PROJECT No.:	61534	SYMBOL	Q	Q	REVISION	DATE	SYMBOL	C	C	REVISION	DATE	
O'LENO STATE PARK		SITE LOCATION MAP & AERIAL OVERVIEW		CONSULTANT :		JGP STRUCTURAL GROUP, INC.		Jeffrey C. Parzych, P.E. #52077		1221 West Thorpe Street		Tallahassee, FL 32303		Fax: 850-574-2788		contact@jgptructural.com									

PROJECT TITLE		BOARDWALK REPAIRS	
Department of Environmental Protection		Division of Recreation and Parks	
Bureau of Design and Construction		3540 Thomasville Rd., Tallahassee, FL 32309 (850) 488-5372	

GENERAL NOTES:

1.

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SPECIFICATIONS.

2.

THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS AND DETAILS PRIOR TO STARTING WORK AND FABRICATION OF REQUIRED ELEMENTS.

3.

THE CONTRACTOR SHALL WORK STRUCTURAL DRAWINGS TOGETHER WITH THE EXISTING CONDITIONS AND ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCH./ENGINEER BEFORE PROCEEDING WITH THE WORK.

4.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

5.

CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.

6.

ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER). REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

7.

ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:

A. THE FLORIDA BUILDING CODE, (8th EDITION) 2023.

B. ACI STANDARD, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19).

C. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-16.

D. NDS (NATIONAL DESIGN SPECIFICATION) FOR WOOD CONSTRUCTION W/ 2015 NDS SUPPLEMENT.

E. ASCE 7-22 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".

F. THE FDOT STANDARD SPECIFICATIONS, CURRENT EDITION.

8.

SAFETY: IT IS SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SAFE WORK SITE AND TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS ON THE JOBSITE.

9.

NOTIFY SUNSHINE STATE ONE CALL (811, OR 1-800-432-4770) PRIOR TO INITIATION OF CONSTRUCTION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.

10.

EFFORTS HAVE BEEN MADE BY THE ENGINEER TO OBTAIN VALUABLE INFORMATION CONCERNING THE LOCATION OF EXISTING UTILITIES WITHIN THE LIMITS OF THIS PROJECT. NO GUARANTEE IS MADE, HOWEVER, AS TO THE LOCATION OF EXISTING BELOW OR ABOVE GROUND UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS WITHIN THE PROJECT, WHETHER SHOWN OR NOT ON THE PROJECT PLANS, AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S WORK. ANY SUCH DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR ENGINEER.

11.

CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL/VEGETATION AND DEBRIS GENERATED FROM THE PROJECT SITE AND DISPOSE OF THESE WASTES IN A DULY-LICENSED DISPOSAL FACILITY IN ACCORDANCE WITH APPLICABLE REGULATIONS.

12.

THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN THE PROJECT AREA. ONLY TREES IDENTIFIED SHALL BE REMOVED OR TRIMMED. PRIOR TO REMOVAL/TRIMMING THE CONTRACTOR SHALL MARK THE ALIGNMENT OF THE PROPOSED WORK AND IDENTIFIED (MARKING TAPE) THE TREES/VEGETATION TO BE REMOVED. ONCE IDENTIFIED, CONTRACTOR SHALL COORDINATE A WALK THRU WITH THE FDEP PROJECT MANAGER OR DESIGNEE FOR CONFIRMATION PRIOR TO INITIATION OF WORK.

13.

SEE ADDITIONAL "GENERAL NOTES" SECTION, SHEET S102.

DESIGN CRITERIA:

1.

LOCATION: COLUMBIA & ALACHUA COUNTY, FLORIDA

2.

BUILDING CODE: 2023 FLORIDA BUILDING CODE & EXISTING BUILDING BUILDING RISK CATEGORY: I

3.

DESIGN LOADS:

LIVE LOAD: 100 PSF (NEW BOARDWALKS)

DEAD LOAD: 10 PSF (FRAMING)

DEAD LOAD: SELF WEIGHT OF STRUCTURE AND COLLATERAL LOADS OF SYSTEM AND FINISHES. (CERTAIN AREAS MAY HAVE DIFFERENT LOADING THAT SHOULD BE VERIFIED)

WIND LOAD: REFERENCE - FLORIDA BUILDING CODE-2023, 8th EDITION

DESIGN WIND SPEED: V_{ult} = 124 MPH V_{osd} = 96 MPH

EXPOSURE CATEGORY - B

NOTE: WIND FORCES ON STRUCTURE SHALL BE DETERMINED BY THE PROVISIONS OF ASCE 7-22

INTERNAL PRESSURE COEFFICIENT: G_{cpi} (OPEN) +/- 0.00

WIND DIRECTIONAL FACTOR: K_d =0.85

TOPOGRAPHIC FACTOR: 1.0

GUARDRAILS AND HANDRAILS SHALL BE DESIGNED FOR 50 PLF AND 250 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT THE TOP AND TRANSFERRED THROUGH THE SYSTEM TO THE STRUCTURE THE 50 PLF LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH THE CONCENTRATED LOAD.

THE WORK NOTED IN THESE DRAWINGS IS TO ADDRESS ISSUES WITH REPAIR AND REPLACEMENT OF MOST OF THE STRUCTURE'S EXISTING LOAD BEARING ELEMENTS DUE PRIMARILY TO DAMAGE CAUSED BY EXPOSURE TO THE ELEMENTS AND TO PERFORM LIMITED ADA MODIFICATIONS TO THE BOARDWALK AND LANDINGS. WHILE THE NEWLY REPLACED MEMBERS WILL BE DESIGNED TO MEET CURRENT BUILDING CODES, THE WORK IS NOT BEING PERFORMED TO UPGRADE THE ENTIRE STRUCTURE SUCH AS THE CURRENT ALUMINUM SWIM PLATFORM.

THESE DRAWINGS WERE FORMULATED BASED ON THE LIMITED INFORMATION PROVIDED AND OBTAINED PRIOR TO THE DESIGN PROCESS. IN ADDITION, LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS 16. WAS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK AND NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES AND ITEMS THAT MAY REQUIRE REVIEW AND/OR MODIFICATIONS TO THE PROVIDED DRAWINGS.

EARTHWORK - SECTION 31 00 00

1.

ALL EXCAVATION AND BACKFILL SHALL BE PERFORMED IN ACCORDANCE WITH ACCEPTABLE METHODS FOR THE EXCAVATION, FILLING AND COMPACTION FOR STRUCTURES.

2.

STRUCTURAL FILL IS TO BE PLACED IN MAXIMUM 12" LIFTS, OR LESS, IF NECESSARY TO OBTAIN THE PROPER COMPACTION. THE TOP LAYER OF LOOSE AND EXISTING SOIL AND ORGANICS ARE TO BE REMOVED PRIOR TO PLACEMENT OF STRUCTURAL FILL.

3.

SOIL TO BE COMPACTED TO 95% MODIFIED PROCTOR, ASTM D-1557.

4.

BACKFILLING AGAINST FOUNDATION WALLS SHALL BE PERFORMED CAREFULLY WITH SMALL COMPACTION EQUIPMENT TO PREVENT OVERSTRESSING THE EXISTING RETAINING WALLS.

5.

UNDER NO CIRCUMSTANCES WILL DIGGING, TUNNELING OR TRENCHING BE ALLOWED AT OR NEAR ANY CONCRETE STRUCTURE WHICH MIGHT ACT TO UNDERMINE THE STRUCTURE'S FOUNDATION WITHOUT PROPER SUPPORT AND TEMPORARY SHORING.

6.

STRUCTURAL FILL SHALL NOT CONTAIN ORGANIC OR DELETERIOUS MATERIAL AND SHALL BE BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

COMPOSITE DECKING - 06 73 00

1.

THE COMPOSITE DECKING PLACED OVER WOOD FRAMING AT THE FIXED DOCKS SHALL CONFORM WITH THE FOLLOWING NOTES AND THE MANUFACTURER'S REQUIREMENTS FOR INSTALLATION.

2.

THE DECKING IS TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS THE BOARDS ARE TO BE CUT TO THE PROPER LENGTH AND INSTALLED WITH THE PROPER SPACING. THE FRAMING SUPPORTING THE DECKING IS TO BE INSTALLED AT THE PROPER ELEVATION, ESPECIALLY WHERE THE DECKING INTERSECTS PREVIOUSLY CONSTRUCTED ELEMENTS.

3.

THE DECKING IS TO BE FASTENED WITH A MINIMUM OF TWO STAINLESS STEEL SCREWS INTO EACH SUPPORTING MEMBER. PROVIDE THE PROPER SCREW SPACING, INCLUDING EDGE AND END DISTANCES IN BOTH THE DECK BOARD AND SUPPORTING MEMBER.

4.

PROVIDE THE PROPER SPACING BETWEEN THE DECK BOARDS. ADDITIONALLY, PROVIDE THE PROPER SPACE BETWEEN MEMBERS AND AT THE ENDS OF THE MEMBERS, ESPECIALLY, WHERE MEMBERS TERMINATE NEXT TO PILES THAT EXTEND ABOVE THE DECK.

5.

PROVIDE A RADIUS CUT AT ALL CORNER CUTS. DO NOT SQUARE CUT AT CORNERS.

6.

ALL FASTENERS USED TO SECURE THE FASCIA BOARDS ARE TO BE STAINLESS STEEL.

7.

ALL CLIP ANGLES, BRACKETS, ETC. USED TO HELP SUPPORT AND ANCHOR DECK MATERIAL TO BE 316 STAINLESS OR FRP.

8.

SET DECK BOARDS ACCURATELY IN LOCATION, ALIGNMENT AND ELEVATION; WITH EDGES AND SURFACE LEVEL, PLUMB, TRUE AND FREE OF RACK; MEASURED FROM ESTABLISHED LINES AND LEVELS.

9.

WHERE BOARDS ARE USED AT BENCH SEATING AND AND RAILING USE SAME TYPE AND COLOR BOARDS. PROVIDE PT WOOD BACK-UP AS REQUIRED.

10.

DECK BOARDS TO BE 2x6 MOISTURE SHIELD VANTAGE SOLID MARINE GRADE BOARDS, EARTHTONE COLOR OVER WOOD FRAMING AS MANUFACTURED BY MOISTURE SHIELD, INC. MOISTURESHIELD.COM (1-866-729-2378)

11.

DECK BOARD MEMBERS SHALL HAVE AT MINIMUM THE FOLLOWING PROPERTIES:

DENSITY - 62.43 LB/CF

MODULUS OF RUPTURE ASTM D-7032 2,900 PSI

MODULUS OF ELASTICITY ASTM D-7032 262,000 PSI

COMPRESSION PERP. TO GRAIN ASTM D-1621 2,828 PSI

COEFF. OF FRICTION (LONGIT.) DRY/WET ASTM D-2394 0.60 / 0.61

COEFF. OF FRICTION (TRANSV.) DRY/WET ASTM D-2394 0.62 / 0.66

SCREW WITHDRAWAL (2" BRD) ASTM D-1761 820 LBS

COEFF. OF THERMAL EXPANSION ASTM D-6341 0.000020 in/in/F

UNDERPINNING PILE SYSTEM

1.

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SPECIFICATIONS.

2.

INSTALLATION OF HELICAL PILES SHALL BE PERFORMED PER MANUFACTURER'S REQUIREMENTS AND PERFORMANCE SPECIFICATIONS FOR HUBBELL POWER SYSTEMS, INC. (CHANCE PILES) OR EQUAL. THE CONTRACTOR SHALL PROVIDE PILE INFORMATION AS PART OF THE DESIGN SUBMITTAL.

3.

SUBMITTAL IS BE BE REVIEWED BY THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

4.

CONTRACTOR SHALL BE COMPETENT AND EXPERIENCED IN THE PLACEMENT OF HELICAL PILES.

5.

IF OBSTRUCTIONS ARE ENCOUNTERED DURING PILE INSTALLATION, PILE MAY REQUIRE RE-LOCATION. IF RE-LOCATION IS REQUIRED NOTIFY ENGINEER, RE-DESIGN MAY BE NECESSARY.

6.

THE HELICAL PILES SHALL BE INSTALLED WITHIN 1 1/2" OF THE REQUIRED PLAN LOCATION.

7.

THE SHAFT ALIGNMENT SHALL BE WITHIN 2 DEGREES OF THE INCLINATION ANGLE NOTED ON PLANS.

8.

PILE INSTALLATION RECORDS TO BE SUBMITTED DIRECTLY AFTER THE INSTALLATION IS COMPLETED.

9.

HELICAL FOUNDATIONS SHALL BE DESIGNED & INSTALLED TO SUPPORT THE DESIGN LOAD(S) AS SHOWN ON THE PROJECT PLANS AND NOTES. ALL PILE COMPONENTS TO BE DESIGNED TO PROVIDE A MINIMUM FACTOR OF SAFETY OF 2. DESIGN LOAD FOR THE PILES ARE AS FOLLOWS:

COMPRESSION = 8 KIPS, TENSION = 1 KIPS

10.

HELICAL PILES TO BE INSTALLED WITH A TORQUE THAT EQUATES TO AT LEAST THE MINIMUM ALLOWABLE PILE LOAD CAPACITIES. THE PILES MUST NOT TERMINATE IN POOR SOIL CONDITIONS.

11.

PRELIMINARY SIZING OF THE HELICAL PILES IS A 2.875-INCH ROUND SHAFT WITH A 10/12/14-IN GALVANIZED HELICAL PLATE LEAD SECTION INSTALLED TO THE PROPER DEPTH TO SUPPORT THE INDICATED LOAD. FINAL SHAFT DIAMETER AND HELIX ARE TO BE PROVIDED BY THE SPECIALTY BASED ON THE EXISTING SOIL CONDITIONS INSTALLED TO THE REQUIRED DEPTH.

12.

THE CENTER TO CENTER PILE SPACING IS TO BE A MINIMUM OF THREE (3) TIMES THE LARGEST HELICAL PLATE DIAMETER WITH A S/D RATIO OF 3.0.

13.

SIGNED AND SEALED HELICAL DRAWINGS AND CALCULATIONS PROVIDED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER ARE TO BE PROVIDED FOR REVIEW AND APPROVAL. THE DESIGN SHALL INCLUDE THE HELICAL PILE DESIGN AS WELL AS THE DESIGN OF THE PILE SUPPORT BRACKETS AND ATTACHMENT.

14.

GROUTING OF PILE SHAFT TO BE PERFORMED WHERE NOTED ON DRAWINGS.

15.

ALL PILE SECTIONS AND SUPPORT BRACKETS, INCLUDING FASTENERS AND HARDWARE ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.

16.

A GEOTECHNICAL ENGINEER OR THE STRUCTURAL ENGINEER'S REPRESENTATIVE TO BE ON SITE AT TIMES DURING PILE INSTALLATION. A MONITORING REPORT IS TO BE PROVIDED TO THE E.O.R. INDICATING THE PILES WERE INSTALLED TO THE REQUIREMENTS OF THE PROJECT. THE FINAL INSTALLATION TORQUES FOR EACH INDIVIDUAL PILE ARE TO BE RECORDED AND PROVIDED IN A SIGNED AND SEALED REPORT.

17.

THE PILES, BRACKETS AND HARDWARE ARE TO BE MANUFACTURED AND PROVIDED BY HUBBELL POWER SYSTEMS, INC. (CHANCE PILES) OR EQUAL AS APPROVED BY THE E.O.R.

18.

ALL WELDING FOR THE BRACKETS AND THE SHAFTS ARE TO BE PERFORMED IN ACCORDANCE WITH AWS D1.1 LATEST EDITION WITH E70-XX MIN. ELECTRODE. ALL WELDING PERFORMED BY MANUFACTURER MUST BE BY CERTIFIED WELDERS WITH CURRENT CERTIFICATES.

19.

THE SHAFT MATERIAL FOR THE PILES SHALL BE MIN. 2 7/8" OR 3 1/2" AS NOTED, ASTM A500 AND THE HELIX PLATES ARE TO BE ASTM A572 GR 50 AS MANUFACTURED AND PROVIDED BY HUBBELL POWER SYSTEMS, INC. OR AS REQUIRED BY THE SPECIALTY ENGINEER AND APPROVED BY THE E.O.R.

20.

THE HELIX PLATE GEOMETRY IS TO CONFORM TO ICC-ES AC358. HELIX PLATES ARE TO BE PLACED ON THE LEAD SECTION. HELIX SIZES NOTED IN SECTIONS ARE MINIMUM SIZES TO BE USED.

21.

PROVIDE GALVANIZED "U" BRACKETS BOLTED TO THE TOP OF THE PILES. SEE DRAWINGS FOR BRACKET INFORMATION.

WOOD FRAMING - SECTION 06 25 00

1.

WOOD CONSTRUCTION SHALL COMPLY WITH AMERICAN FOREST AND PAPER ASSOCIATION, AF&PA, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND CHAPTER 23 OF FBC.

2.

ALL DIMENSIONAL LUMBER SHALL BE S4S AND GRADE STAMPED BY AN AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARDS COMMITTEE'S BOARD OF REVIEW AND MANUFACTURED IN ACCORDANCE WITH PS-20, LATEST REVISION.

3.

USE LUMBER WOOD WITH THE FOLLOWING MINIMUM PROPERTIES:

SAWN LUMBER: ALL 8x8 BEAM MEMBERS SHALL BE SOUTHERN PINE (SYP) #1

ALL 2x BEAMS/JOISTS/BRACING SHALL BE SOUTHERN PINE (SYP) #1

ALL RAILING POSTS SHALL BE SOUTHERN PINE (SYP) #1 OR BETTER

ALL 3x DECK BOARDS FOR BRDWALK #6 TO BE (SYP) #1 OR BETTER

ALL OTHER LUMBER SHALL BE SOUTHERN PINE (SYP) #2 OR BETTER

RAILING MATERIALS INSTALLED ON EDGE SHALL NOT EXCEED BOW AND CROOK ALLOWANCES GREATER THAN ESTABLISHED FOR NO. 1 BOARDS. (DIMENSIONAL LUMBER SHALL CONFORM TO AMERICAN SOFTWOOD LUMBER STANDARD PS-20. AND BE S4S AND GRADE STAMPED.)

4.

MEMBERS USED IN MULTIPLE ASSEMBLY BEAMS & BUILT UP JOISTS TO BE CONNECTED WITH 2x10 MEMBERS & GREATER: 3 ROWS OF 12d-S NAILS AT 12" O.C. UNLESS OTHERWISE NOTED.

5.

2x8 MEMBERS: 2 ROWS OF 12d-S NAILS AT 12" O.C. UNLESS OTHERWISE NOTED.

6.

ONE PIECE OF 3" SOLID THICK WOOD MEMBER MAY BE SUBSTITUTED FOR TWO PIECES OF 1 1/2".

7.

USE MANUFACTURER'S MAX. REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, HURRICANE CLIPS AND ALL CONNECTORS.

8.

PROVIDE LATERAL BRACING AND/OR BLOCKING BETWEEN MEMBERS AS REQ'D TO TRANSFER LOADS.

9.

WOOD IN CONTACT WITH CONCRETE OR MASONRY WALL SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS.

10.

WASHERS SHALL BE PROVIDED AT ALL BOLT LOCATIONS BETWEEN WOOD, BOLT HEADS AND NUTS.

11.

ALL BOLTS, NUTS, WASHERS, SCREWS, NAILS AND FASTENERS SHALL BE GRADE 316 STAINLESS STEEL (SS), OR HOT DIP GALVANIZED WHERE NOTED. THOSE IN CONTACT W/ THE GROUND AND WATER TO BE SS.

12.

USE MANUFACTURER'S REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, ALL HURRICANE CLIPS, HANGERS AND STRAPS TO BE STAINLESS STEEL PER MANUFACTURER, (SIMPSON-SS300, TYPE 316-L). IF THE CONNECTORS ARE NOT AVAILABLE IN STAINLESS STEEL, THE CONNECTORS ARE TO BE PROVIDED WITH THE MAXIMUM CORROSIVE PROTECTION POSSIBLE FOR THE SPECIFIC CONNECTOR BASED ON APPROVAL BY THE ENGINEER.

13.

PROVIDE SOLID WOOD BLOCKING BETWEEN STRUCTURAL MEMBERS NOTED AND AS REQUIRED.

14.

TREATED WOODS: (OTHER THAN TIMBER PILES)

ALL WOOD SHALL BE PRESERVATIVE TREATED (P.T.) - MCA, ACQ OR CCA.

AWPA USE CATEGORY AS FOLLOWS:

UC5C, FOR BULKHEADS AND BRACING-CONTINUOUS MARINE EXPOSURE (2.5 CCA)

UC4C, FOR POSTS, FRAMING MEMBERS, ETC. EXPOSED TO SALT SPRAY

UC4B, FOR POSTS, FRAMING MEMBERS, ETC. OVER LAND EXPOSED TO FRESHWATER

TREATMENT RETENTION: 2.5 LB/CF FOR CONTINUOUS MARINE (SALTWATER) EXPOSURE

.60 LB/CF FOR GROUND CONTACT MATERIALS AND .40 LB/CF FOR NON-GROUND MATERIALS (SALTWATER OR SALT SPRAY).

.40 LB/CF FOR GROUND CONTACT MATERIALS AND .25 LB/CF FOR NON-GROUND MATERIALS (FRESHWATER).

JOB SITE FABRICATION CUTS AND BORINGS IN TREATED LUMBER SHALL BE FIELD TREATED WITH COPPER NAPHTHENATE HAVING A MINIMUM OF 2% METALLIC SOLUTION IN ACCORDANCE WITH WPA STANDARD M4.

15.

HOLES FOR BOLTS SHALL BE BORED WITH A BIT OF THE SAME DIAMETER AS THE BOLT. HOLES FOR LAGS SHALL BE BORED WITH A BIT NOT LARGER THAN THE BODY OF THE SCREW AT THE BASE OF THE THREAD.

16.

WHERE SCREWS ARE SPECIFIED FOR WOOD CONNECTIONS, PRE DRILLING IS REQUIRED. DRILL SIZE SHALL BE GAUGED TO ALLOW FULL THREAD PENETRATION. WHERE NAILS ARE USED, PRE-DRILL MEMBER TO BE SECURED TO MINIMIZE SPLITTING. THIS SPECIFICALLY APPLIES TO HANDRAIL COMPONENTS.

17.

NAILS USED IN WOOD TO WOOD CONNECTIONS (NOT AT HURR. CLIPS) SHALL BE STAINLESS STEEL RING SHANKS.

18.

WANES ARE NOT ACCEPTABLE IN EXPOSED MATERIAL.

19.

ALL FASTENERS SHALL BE APPLIED PER TABLE 2304.10.1 FBC 2020 UNLESS OTHERWISE NOTED.

20.

EXISTING DAMAGED WOOD MEMBERS TO BE REPLACED OR REPAIRED. IF ADDITIONAL DAMAGE EXISTS TO STRUCTURAL MEMBERS, NOTIFY THE PROJECT MANAGER AND THE ENGINEER.

21.

EXISTING CORRODED/DAMAGED LAG SCREWS AND BOLTS TO BE REMOVED FROM WOOD MEMBERS. WHERE LAG SCREWS CAN BE COMPLETELY REMOVED A NEW LAG SCREW WITH A LARGER DIAMETER TO ENGAGE THE WOOD IS TO BE INSTALLED.

22.

IF WOOD ROT OR DETERIORATION IS UNCOVERED IN AREAS AT OR NEAR WHERE NEW BOLTS AND FASTENERS ARE TO BE INSTALLED, NOTIFY THE PROJECT MANAGER AND THE ENGINEER.

STRUCTURAL STEEL - SECTION 05 12 00

1.

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," NINTH EDITION.

2.

HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" (LATEST EDITION).

3.

WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATION, AWS D1.1 (2020).

4.

ALL STRUCTURAL STEEL SHALL HAVE THE FOLLOWNG MINIMUM YIELD STRENGTHS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. STEEL BEAMS Fy = 50 KSI

5.

STRUCTURAL TUBING Fy = 46 KSI ALL OTHER Fy = 36 KSI

6.

STAINLESS STEEL (SS) TYPE 316

7.

HIGH STRENGTH BOLTS, NUTS AND HARDENED WASHERS SHALL CONFORM TO ASTM A325; MACHINE BOLTS AND NUTS SHALL CONFORM TO ASTM A307.

8.

WELDING ELECTRODES USED FOR SHOP OR FIELD CONNECTIONS SHALL HAVE A MINIMUM ELECTRODE TENSILE STRENGTH OF 70 KSI. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ELECTRODES SHALL CONFORM TO AWS A5.

9.

WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AISC AND AWS REQUIREMENTS.

10.

PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

11.

ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL SS 316 AS NOTED.

FABRICATION AND ERECTION

1.

WHEN CONNECTIONS REQUIRE FIELD PREPARATION OF BOLT HOLES, THE HOLES SHALL BE DRILLED AND THE DIAMETER OF THE BOLT HOLES SHALL BE 1/16 INCH GREATER THAN THE NOMINAL BOLT DIAMETER.

2.

FIELD CORRECTING OF FABRICATED STEEL BY GAS CUTTING SHALL NOT BE PERMITTED ON STRUCTURAL FRAMING MEMBERS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

STRUCTURAL SUBMITTALS

1.

IN ADDITION TO SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, THE FOLLOWING "STRUCTURAL SUBMITTALS" ARE REQUIRED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD:

A. STRAPS, HURRICANE CLIPS, FASTENERS: PRODUCT DATA & INFORMATION SHEETS

B. COMPOSITE DECKING AND FASTENERS: PRODUCT DATA & INFORMATION SHEETS

C. UNDERPINNING HELICAL PILES: PRODUCT DATA, SIGNED AND SEALED SHOP DWGS

2.

ALL "STRUCTURAL SUBMITTALS" SHALL BE PREPARED BY A "SPECIALTY ENGINEER" AS DEFINED BY RULE #21H - 19.001 (REGISTERED IN THE STATE OF FLORIDA).

3.

DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION, INSTALLATION & CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEER'S SIGNATURE AND AN INDICATION THAT HE CHECKED THE WORK.

4.

DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SEALED BY THE ENGINEER PREPARING SUCH WORK.

5.

THE REVIEW OF "STRUCTURAL SUBMITTALS" BY THE STRUCTURAL ENGINEER OF RECORD SHALL ENSURE THAT THE SUBMITTALS HAVE BEEN FURNISHED AND PREPARED BY A QUALIFIED PERSON, THAT THE "SPECIALTY ENGINEER" UNDERSTOOD THE INTENT OF THE DESIGN AND USED THE SPECIFIED CRITERIA, AND THAT THE CONFIGURATION OF THE DESIGN IS CONSISTENT WITH THE CONSTRUCTION DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS WILL BE MADE.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JEFFREY G. PARZYCH, P.E. (Fl. Eng. Lic. No. 52077) USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT VALID UNLESS SIGNED AND SEALED BY THE ENGINEER. A NOTARIAL PUBLIC SEAL OR NOTARY SIGNATURE IS NOT REQUIRED FOR ANY ELECTRONIC COPIES.

DESIGNER : JGP

DRAWN BY: AUV

REVIEWED BY: JGP

CONSULTANT CONTRACT No.: CN825

STATE PROJECT No.: 61559C

ISSUE DATE: 08/04/25

SHEET NO.

0'LENO STATE PARK

STRUCTURAL NOTES

BOARDWALK REPLACEMENT

PROJECT TITLE

SHEET TITLE

Department of Environmental Protection

Division of Recreation and Parks

Bureau of Design and Construction

3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157

1. ALL HANDRAILS AND HANDRAIL INSTALLATIONS SHALL BE IN CONFORMANCE WITH BDC REQUIREMENTS AND SPECIFICATIONS AND THE FLORIDA BUILDING CODE.
2. PROVIDE HANDRAIL INSTALLATIONS CAPABLE OF WITHSTANDING THE REQUIRED STRUCTURAL LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN WORKING STRESS OF MATERIALS FOR HANDRAILS, BRACKETS, ANCHORS AND CONNECTIONS.
HANDRAILS NOT SERVING AS TOP RAILS SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING:
CONCENTRATED LOAD OF 200 PLF APPLIED AT ANY POINT AND IN ANY DIRECTION.
UNIFORM LOAD OF 50 PLF/FT APPLIED IN ANY DIRECTION.
CONCENTRATED AND UNIFORM LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.
3. PROVIDE HANDRAILS AND RAILINGS THAT ALLOW FOR THERMAL MOVEMENTS.
4. PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION FROM OCCURRING.
5. PROVIDE SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION OF HANDRAILS AND RAILINGS.
6. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS AND ATTACHMENT TO OTHER WORK. PROVIDE STRUCTURAL ANALYSIS SIGNED AND SEALED BY A QUALIFIED ENGINEER PROFESSIONAL ENGINEER.
6. VERIFY HANDRAIL AND RAILING DIMENSIONS BY FIELD MEASUREMENTS BEFORE FABRICATION.
7. ALUMINUM ALLOY AND TEMPER RECOMMENDED BY ALUMINUM PRODUCER AND FINISHER FOR TYPE OF USE AND FINISH INDICATED AND WITH NOT LESS THAN THE STRENGTH AND DURABILITY PROPERTIES OF THE ALLOY AND TEMPER NOTED BELOW:
 1. EXTRUDED STRUCTURAL PIPE AND TUBE: ASTM 429, ALLOY 6063-T6.
 2. DIE AND HAND FORGING: ASTM B 247, 6061-T6.
 3. CASTINGS: ASTM B 26, A535, ALUMINUM-MAGNESIUM ALLOY.
8. HANDRAIL BRACKETS TO BE CAST BRACKETS WITH PREDRILLED HOLES FOR EXPOSED BOLT ANCHORAGE WITH FLANGE TAPPED FOR CONCEALED RAIL ANCHORAGE BY MEANS OF TWO STAINLESS STEEL FLAT COUNTERSUNK HEADS, TYPE F SELF TAPPING SCREWS. PROVIDE 1 1/2" CLEARANCE BETWEEN ADJACENT WALL POSTS AND WOOD GUARDRAILS. BRACKETS SHALL PROVIDE A CONTINUOUS SURFACE.
9. HANDRAILS TO BE 1" I.P.S. ALUMINUM SCHEDULE 40, ALLOW 6063-T6 PIPE.
10. FASTENERS FOR ANCHORING HANDRAILS WITH BRACKETS TO SUPPORTING MEMBERS SHALL BE OF TYPE, GRADE AND CLASS REQUIRED TO PRODUCE CONNECTIONS CAPABLE OF WITHSTANDING DESIGN LOADS. FOR ALUMINUM BRACKETS PROVIDE FASTENERS FABRICATED FROM TYPE 316 STAINLESS STEEL.
11. USE FASTENERS FABRICATED FROM SAME BASIC METAL AS FASTENED METAL FOR INTERCONNECTING HANDRAIL AND BRACKET COMPONENTS. PROVIDE CONCEALED FASTENERS FOR INTERCONNECTING RAIL COMPONENTS AND FOR ATTACHING THEM TO OTHER WORK, UNLESS EXPOSED FASTENERS ARE UNAVOIDABLE OR ARE STANDARD FASTENING. PROVIDE TYPE 302 STAINLESS STEEL PHILLIPS FLAT-HEAD MACHINE SCREWS FOR EXPOSED FASTENERS, U.O.N. TYPE 302 SS FASTENERS PER BRACKET MANUFACTURER FOR CONNECTING HANDRAILS TO BRACKETS.
12. INSTALL EXPANSION JOINTS TO ACCOMMODATE THERMAL MOVEMENTS, INSTALL WITHIN 6" OF POSTS.
13. FABRICATE HANDRAIL SYSTEMS COMPLYING WITH BDC STANDARDS AND SPECIFICATIONS.
14. FORM CHANGES IN DIRECTION OF RAILING MEMBERS BY UNIFORM RADIUS BEND WITHIN ALLOWABLE TOLERANCE OF PIPE SIZE.
15. FORM SIMPLE AND COMPOUND CURVES BY BENDING MEMBERS IN JIGS TO PRODUCE UNIFORM CURVATURE FOR EACH CONFIGURATION. MAINTAIN PROFILE WITHOUT BUCKLING, TWISTING, ETC.
16. FABRICATE HANDRAILS AND RAILINGS TO ALLOW CONNECTING OF MEMBERS TO MEET BDC REQUIREMENTS. ALL JOINTS TO BE WELDED.
17. PROVIDE WEEP HOLES OR OTHER MEANS TO EXIT ENTRAPPED WATER FROM HOLLOW SECTIONS.
18. REMOVE BURRS FROM ALL EXPOSED CUT EDGES.
19. UNLESS OTHERWISE SPECIFIED, ALUMINUM ITEMS SHALL HAVE MILL FINISH, HAND OR MACHINE SANDED TO 240 GRIT OR BETTER.
20. WHERE SPECIFIED, USE CLASS 1, CLEAR ANODIC FINISH: AA-M12C22A41 (MECHANICAL FINISH; NON-SPECULAR; CHEMICAL FINISH: ETCHED MEDIUM MATTE; ANODIC COATING; ARCH. CLASS 1, CLEAR COATING 0.018 MM OR THICKER) COMPLYING WITH AAMA 611.
21. ATTACH HANDRAIL TO WOOD FRAMING AND POSTS WITH LAG BOLTS AND OR MACHINE BOLTS AS REQUIRED FOR LOAD TRANSFER.
22. FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
23. ALL BRACKETS AND PLATES EXPOSED TO WEATHER TO BE FABRICATED FROM 316 STAINLESS.

CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES OF AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS. THE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THE DRAWINGS SHALL BE PROVIDED IN BOTH PDF AND DWG FORMAT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATING AND SUBMITTAL OF THE "AS-BUILT" DRAWINGS.

THE AS-BUILT DOCUMENTS SHALL BE SUBMITTED AFTER COMPLETION OF THE ALL IMPROVEMENTS AND PRIOR TO THE FINAL INSPECTION.

- CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES OF AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS. THE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THE DRAWINGS SHALL BE PROVIDED IN BOTH PDF AND DWG FORMAT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATING AND SUBMITTAL OF THE "AS-BUILT" DRAWINGS.
- THE AS-BUILT DOCUMENTS SHALL BE SUBMITTED AFTER COMPLETION OF THE ALL IMPROVEMENTS AND PRIOR TO THE FINAL INSPECTION.

CONTRACTOR SHALL VERIFY THE ACCURACY OF THE PROVIDED ELEVATIONS TO THEIR SATISFACTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERTICAL AND HORIZONTAL ALIGNMENT OF CONSTRUCTED FACILITIES.

2. CONTRACTOR IS TO VERIFY AND ENSURE ALL EQUIPMENT TRANSPORTED TO THE SITE IS WASHED AND FREE OF ANY SOIL, SEED OR ORGANIC MATERIAL BEFORE ENTERING THE PROJECT/PARK PROPERTY. EQUIPMENT TO BE INSPECTED AND APPROVED BY BDC CONSTRUCTION PROJECT MANAGER PRIOR TO ANY OFF-LOADING FOR USE.

3. THE CONTRACTOR SHALL PROVIDE A PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA TO ESTABLISH THE CONSTRUCTION SITE LAYOUT, PERFORM TOPOGRAPHIC SURVEYS AND PERFORM ALL OTHER REQUIRED SURVEYING ACTIVITIES.

4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION THROUGH THE LENGTH OF THE CONTRACT. THE CONTRACTOR'S OPERATIONS SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS, INCLUDING THOSE PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES AND NOISE POLLUTION. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.

5. EXISTING SITE FEATURE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO CONSTRUCTION AND ACCEPTING EXISTING CONDITIONS.

6. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE SERVICE BIOLOGIST.

7. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THE UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS TO BE REPORTED TO THE PROJECT MANAGER.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.

10. THE CONTRACTOR SHALL SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN.

11. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.

12. ALL AREAS, STREETS, DRIVEWAYS, PARKING AREAS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.

13. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF PERMITS OBTAINED BY THE OWNER AND THOSE BY THE CONTRACTOR.

14. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.

15. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.

16. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF BEING DAMAGED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:
FDEP, BUREAU OF SURVEY AND MAPPING, MS 105
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
(850)245-2606 (OFFICE)
(850)245-2645 (FAX)

17. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF 2 WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

18. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.

19. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.

20. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT-OF-WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.

21. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED.

22. FDOT INDICES SHALL REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM. CONTRACTOR TO KEEP A COPY OF THE LATEST COPY OF THE DESIGN STANDARDS (DETAIL INDEXES) AND THE 2015 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ON-SITE DURING THE ENTIRE COURSE OF CONSTRUCTION. REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR CONSTRUCTION DETAILS AS A SUPPLEMENT TO THE INFORMATION AND DETAILS PROVIDED IN THESE CONSTRUCTION DRAWINGS. THE FOLLOWING SPECIFICATIONS APPLY TO THIS PROJECT AND INCLUDE THE SECTIONS REFERENCED THEREIN:

FDOT SPEC. NO.	TITLE		
100	CONSTRUCTION EQUIPMENT - GENERAL REQUIREMENTS	514	UNDERDRAINS
101	MOBILIZATION	570	PLASTIC FILTER FABRIC (GEOTEXTILE)
102	MAINTENANCE OF TRAFFIC	710	PAINTED PAVEMENT MARKINGS
104	PREVENTION CONTROL, AND ABATEMENT OF	981	TURF MATERIALS
	EROSION AND WATER POLLUTION	983	WATER FOR GRASSING
162	CLEARING AND GRUBBING	985	GEOTEXTILE FABRICS
440	PREPARED SOIL LAYER	987	PREPARED SOIL LAYER MATERIALS

1. ALL CODES REGULATING DEMOLITION WORK SHALL BE COMPLIED WITH. THE CONTRACTOR SHALL PUT UP AND MAINTAIN SUCH BARRIERS AND WARNING LIGHTS, AS MAY BE NECESSARY OR REQUIRED BY CODE, TO PROTECT AND PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE DEMOLITION WORK AREA. ALL DEMOLITION OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) INsofar AS THEY APPLY TO DEMOLITION WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. TEMPORARY PROTECTIVE DEVICES AS REQUIRED SHALL BE INSTALLED ADJACENT TO THE DEMOLITION WORK FOR PROTECTION OF PERSONNEL, EXISTING ADJACENT BUILDINGS, STRUCTURES, AND EQUIPMENT AGAINST DUST, FALLING OR FLYING DEBRIS, ANY DAMAGE TO EXISTING STRUCTURES, FACILITIES AND/OR EQUIPMENT RESULTING FROM DEMOLITION WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
3. ALL DEBRIS AND EXISTING MATERIALS SHALL BE HAULED AWAY AND DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT SPILLAGE OF MATERIALS HAULED IN PUBLIC STREETS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY CLEAN UP ANY SPILLAGE WHICH MAY ACCIDENTALLY OCCUR.
4. THE CONTRACTOR SHALL MAINTAIN AN ORDER OF NEATNESS AND GOOD HOUSEKEEPING. TOOLS, SCAFFOLDING, AND OTHER DEMOLITION EQUIPMENT MUST AT ALL TIMES BE KEPT IN A NEAT AND ORDERLY ARRANGEMENT. AT THE CONCLUSION OF THE DEMOLITION OPERATIONS THE ENTIRE WORK AREA SHALL BE LEFT IN A CLEAN CONDITION AS REQUIRED FOR SUBSEQUENT WORK.

1. CONTRACTOR IS ADVISED THAT WETLANDS AND OTHER SURFACE WATERS (RIVERS, DRAINAGE DITCHES, AND SIMILAR OPEN OR PARTIALLY OPEN-WATER AREAS) ARE LOCATED ADJACENT TO THE PROJECT AND IN THE GENERAL PROJECT VICINITY. PRIOR TO OR AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL MEET WITH THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE TO FIELD-REVIEW THE LIMITS OF WETLANDS AND OTHER SURFACE WATERS THAT ARE IN CLOSE PROXIMITY TO PROJECT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT IMPACT ANY WETLANDS OR OTHER SURFACE WATERS (I.E. WATERS OF THE STATE; WATERS OF THE UNITED STATES), OTHER THAN THE NOTED LOCATIONS WHERE WORK IS OCCUR.
2. ANY MATERIAL INADVERTENTLY PLACED IN WETLANDS OR OTHER SURFACE WATERS SHALL BE REMOVED BY HAND. ANY ACCIDENTAL DAMAGE CAUSED TO WETLANDS OR OTHER SURFACE WATERS AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL IMMEDIATELY BE REPORTED TO THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE REMEDIATION OF ANY SUCH DAMAGE IN ACCORDANCE WITH DIRECTIVES AND SPECIFICATIONS PROVIDED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.
3. SILT FENCE OR SIMILAR EROSION/SEDIMENT CONTROL DEVICES SHALL NOT BE PLACED WITHIN THE LIMITS OF ANY WETLANDS OR OTHER SURFACE WATERS, UNLESS OTHERWISE APPROVED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.
4. IT IS RECOMMENDED THE BOARDWALK WORK BE PERFORMED USING A "TOP-DOWN" CONSTRUCTION APPROACH.
5. THE CONTRACTOR SHALL PROVIDE A DEBRIS CONTAINMENT AND MANAGEMENT PLAN. THE PLAN IS TO SPECIFY HOW DEMOLITION DEBRIS WILL BE CONTAINED, HANDLED, TRANSPORTED AND DISPOSED FROM THE SITE WITHOUT ANY MATERIAL ENTERING THE WATER. THIS PLAN IS TO BE PROVIDED PRIOR TO STARTING WORK.
6. IF ANY VESSELS ARE USED, THE CONTRACTOR SHALL PROVIDE A VESSEL MANAGEMENT PLAN THAT DETAILS THE NUMBER AND TYPES OF WORK VESSELS TO BE USED, HOW THE VESSELS WILL BE OPERATED INCLUDING ANY ANCHORING, MOORING, SPUDDING AND INGRESS AND EGRESS ROUTES FROM THE PROJECT SITE.
7. TURBIDITY MONITORING SHALL BE REQUIRED DURING CONSTRUCTION AND THE WORK PER PERMITTING REQUIREMENTS. TURBIDITY SHALL NOT EXCEED ACCEPTABLE LEVELS AS DICTATED BY THE GOVERNING AGENCIES.

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A BUILDING PERMIT FOR THE PROJECT FROM THE JURISDICTION PRIOR TO INITIATION OF PROJECT CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO COPIES OF THIS PERMIT TO THE FDEP PROJECT MANAGER. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE TERMS, CONDITIONS, AND REQUIREMENTS OF THE ISSUED BUILDING PERMIT.
2. THE CONTRACTOR SHALL COMPLY WITH PERMITS ISSUED BY THE ENVIRONMENTAL PROTECTION COMMISSION, ECP, AND ANY PERMITS ISSUED BY THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT, SRWMD. THE WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIRED PERMITS AND APPROVED PLANS. TREE PROTECTION MUST BE INSTALLED PRIOR TO SITE SITE PREPARATION. THERE MUST BE NO EROSION INTO ADJACENT WETLAND/BUFFERS. A TURBIDITY BARRIER IS TO BE INSTALLED AROUND THE WORK AREA IN SUCH A WAY AS TO PREVENT EROSION INTO THE ADJACENT PORTIONS OF THE WETLANDS AND/OR BUFFERS. THE BARRIER IS TO BE INSTALLED PRIOR TO THE START OF PROJECT AND IS TO BE MAINTAINED DAILY. THE BARRIER MUST BE LEFT IN PLACE UNTIL THE FINAL INSPECTION HAS BEEN COMPLETED. CONTRACTOR TO CONTACT PROPER AUTHORITIES WHEN THE WORK HAS BEEN COMPLETED FOR FINAL INSPECTION.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS, ORDINANCES, AND INSPECTION REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO SCHEDULING ANY REQUIRED INSPECTIONS AND APPROVALS, AND NOTIFYING NECESSARY AGENCIES OF PROJECT CONSTRUCTION COMMENCEMENT.
5. CONTRACTOR SHALL COMPLY WITH ANY PERMITS ISSUED BY THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT, SRWMD.
6. VARIOUS ANIMALS DESIGNATED BY STATE AND FEDERAL AGENCIES AS ENDANGERED, THREATENED, OR SPECIES OF SPECIAL CONCERN (I.E. LISTED SPECIES) MAY BE PRESENT IN THE GENERAL PROJECT AREA. THE CONTRACTOR SHOULD BE AWARE THAT STATE AND FEDERAL REGULATIONS PROHIBIT HARMING OR HARASSING ANY LISTED SPECIES. IT IS OFTEN DIFFICULT FOR UNTRAINED PERSONNEL TO CORRECTLY IDENTIFY LISTED SPECIES. BECAUSE OF THIS, THE CONTRACTOR SHALL NOT HARM OR HARASS ANY ANIMAL SPECIES ENCOUNTERED DURING PROJECT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PROJECT PERSONNEL, INCLUDING SUB-CONTRACTORS, ARE AWARE OF AND ABIDE BY THIS REQUIREMENT.

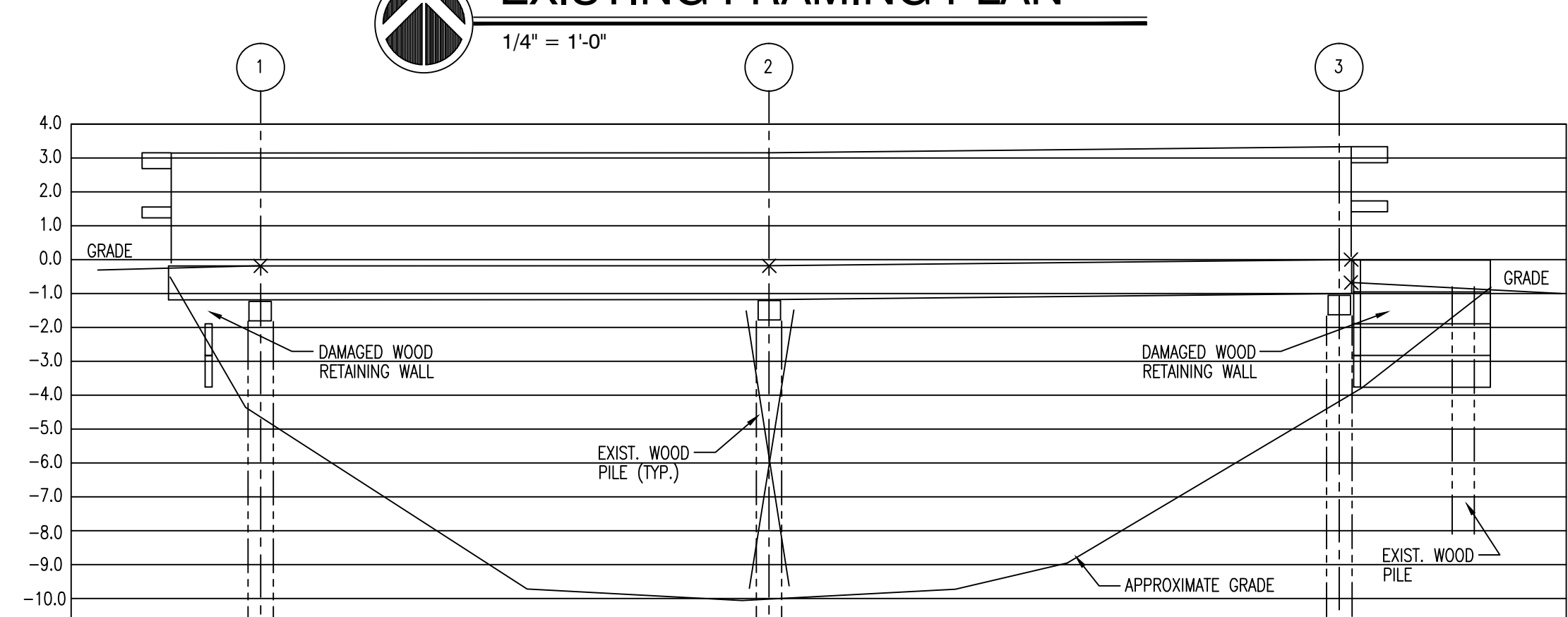
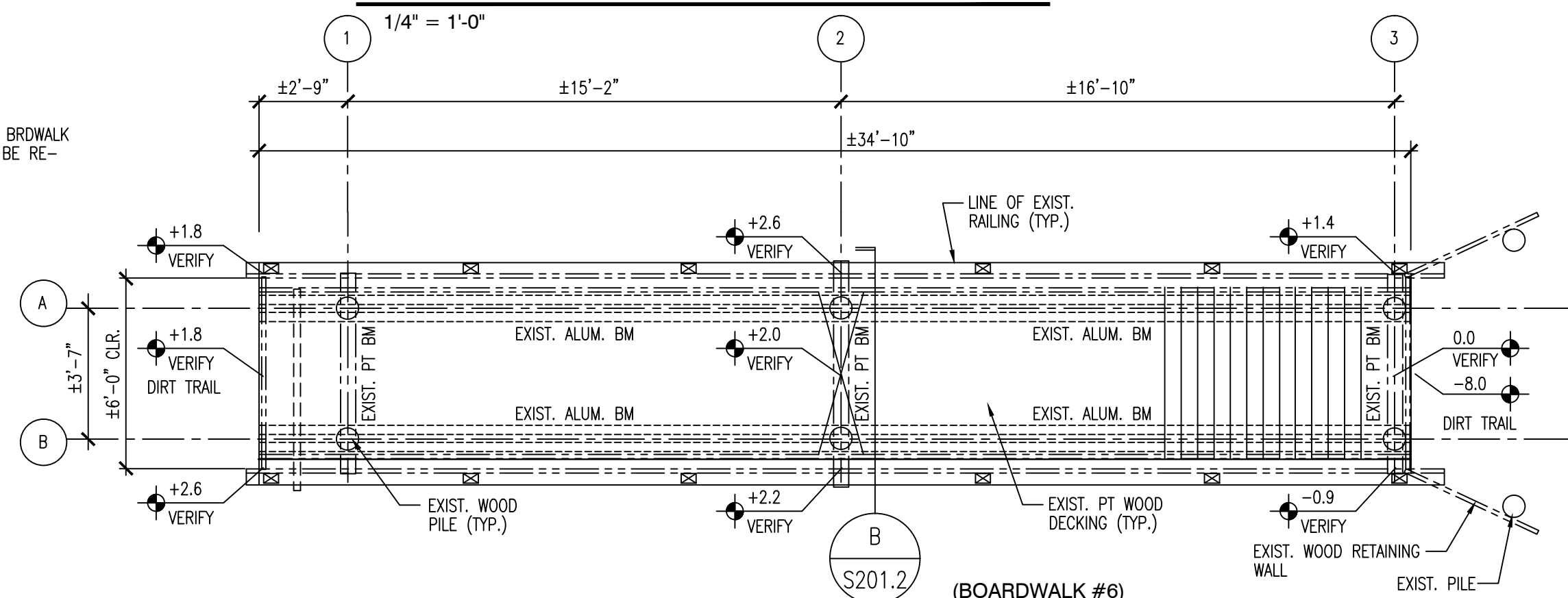
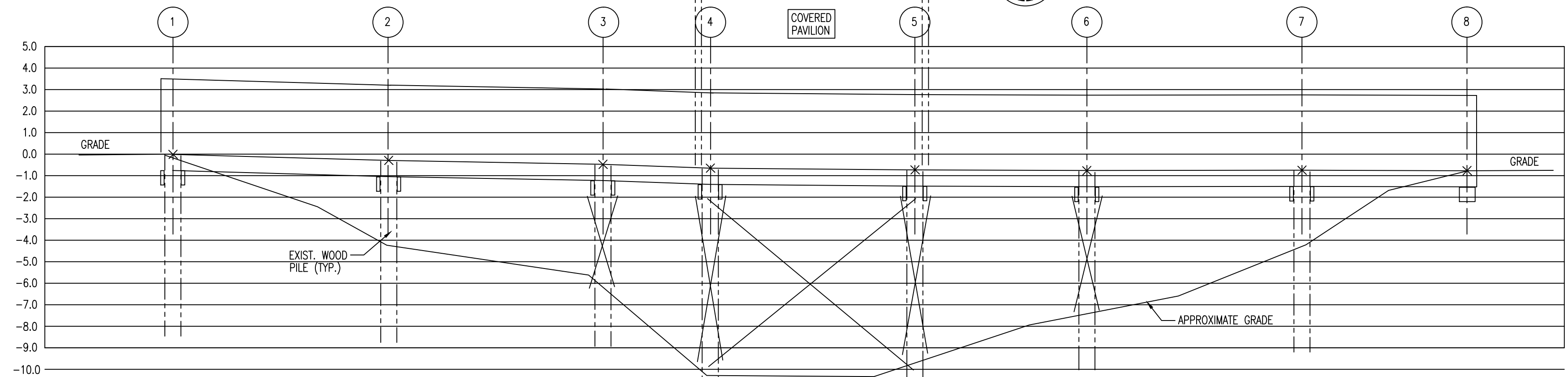
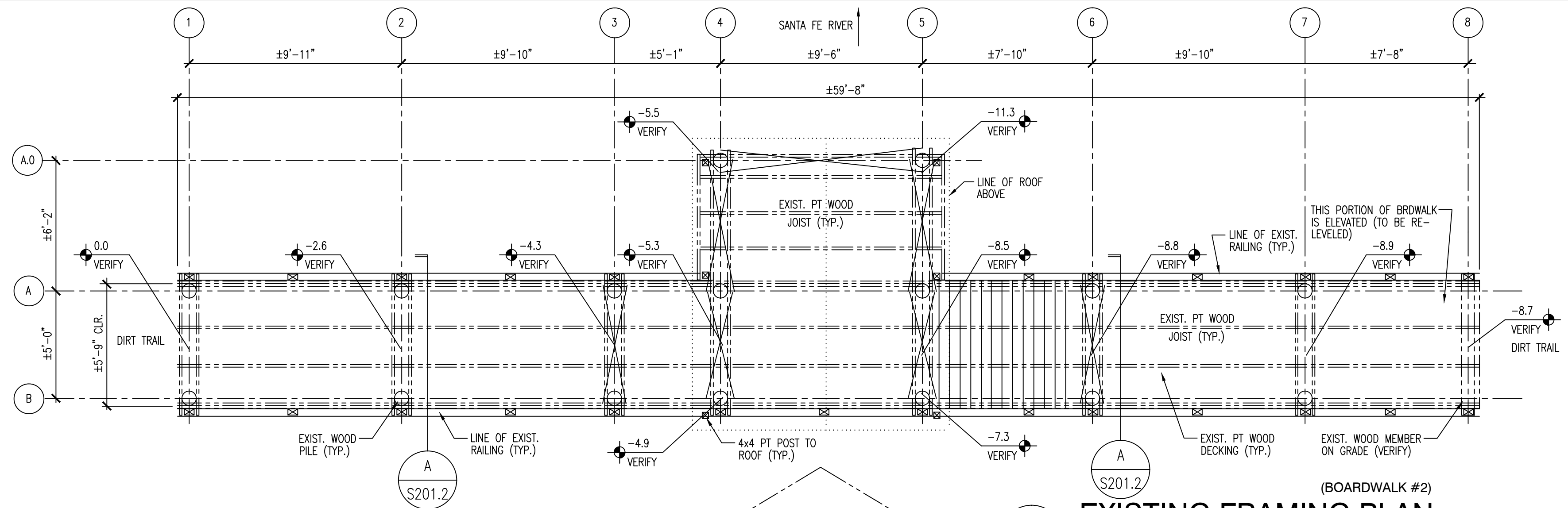
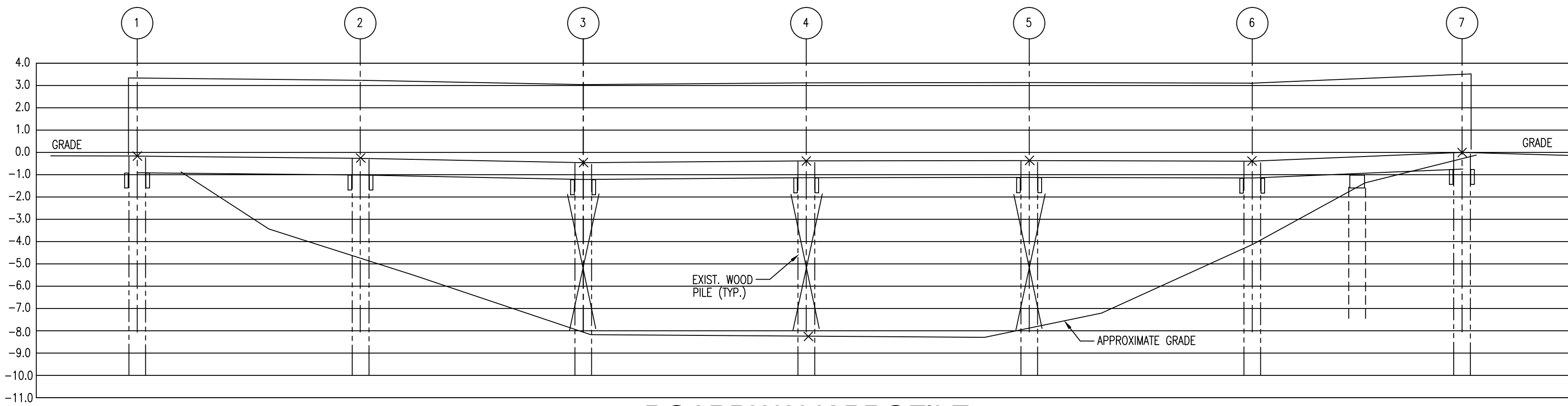
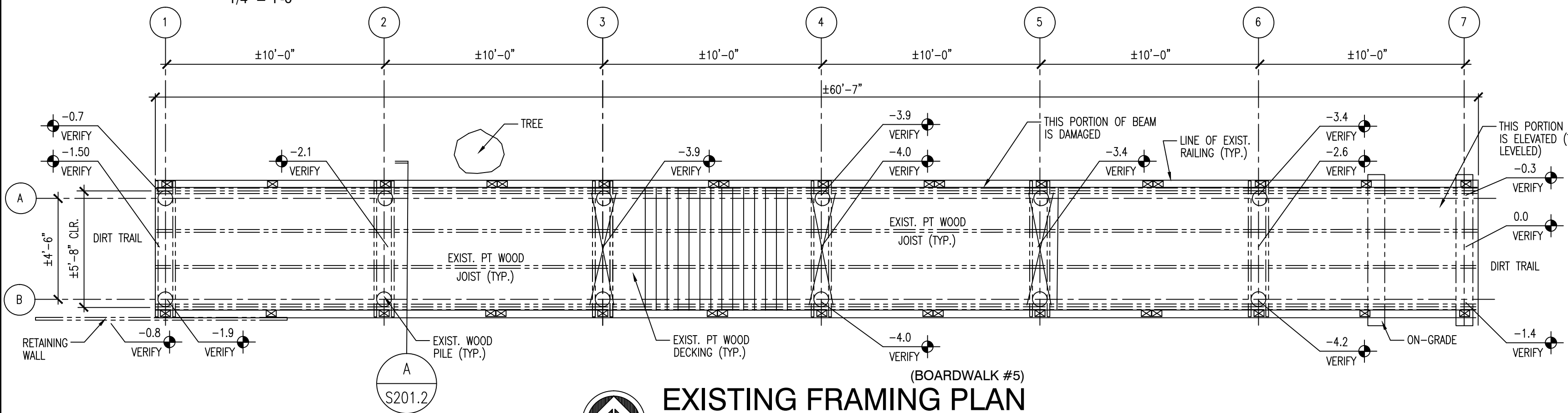
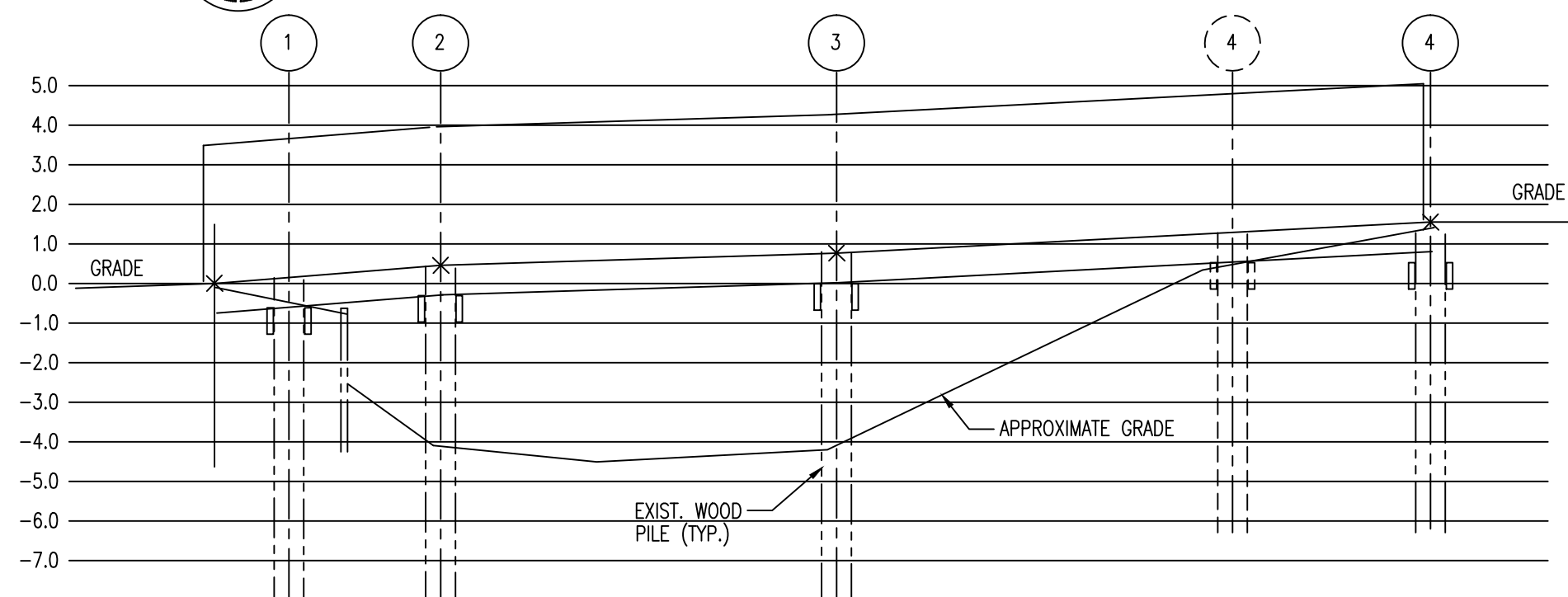
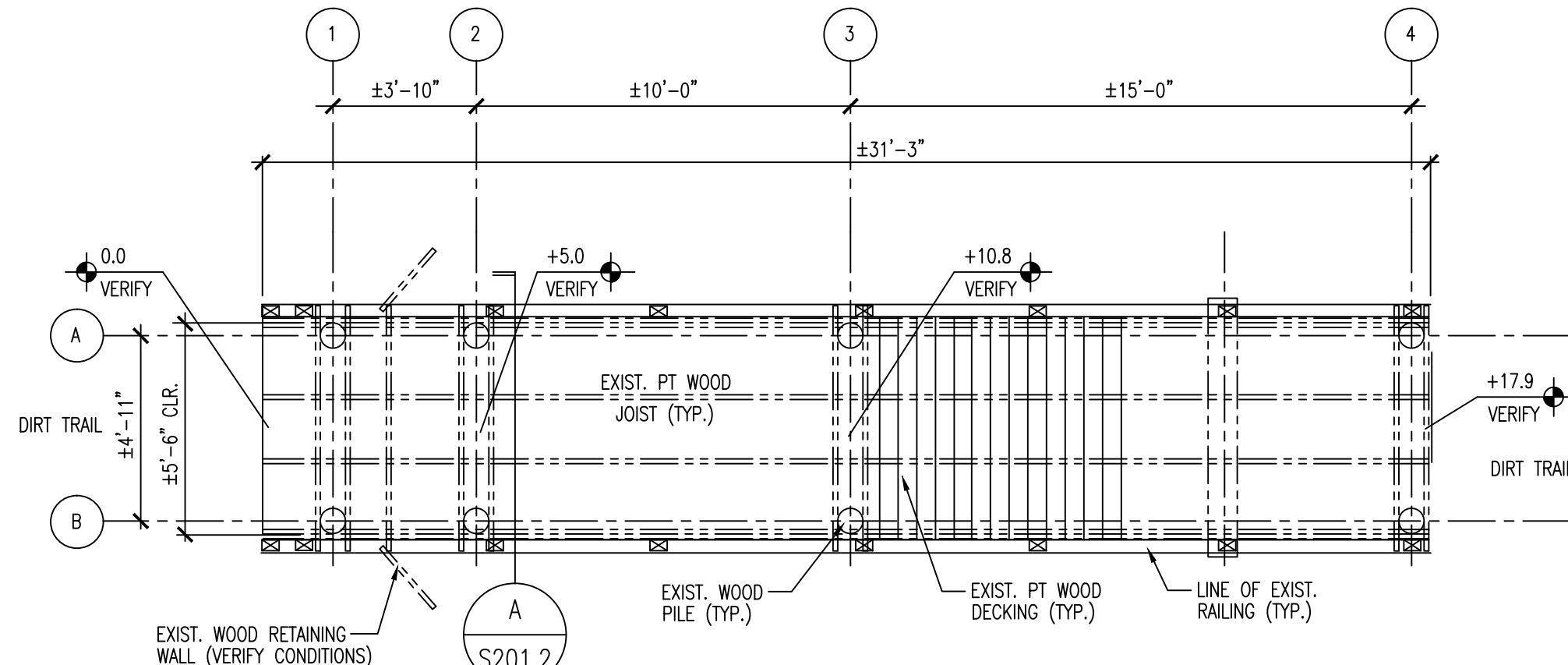
1. THE CONTRACTOR MUST PROVIDE A LOCATION MAP INDICATING PROPOSED STAGING AREAS AT THE TIME OF THE PRE-CONSTRUCTION MEETING. ALL STAGING AREAS AND TEMPORARY STOCKPILE AREAS MUST FIRST BE APPROVED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE START OF ANY PRE-APPROVED STAGING ACTIVITIES. FOR UNFORESEEN STAGING NEEDS IDENTIFIED AFTER THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL FIRST OBTAIN APPROVAL OF THESE AREAS FROM THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE AT LEAST TEN (10) DAYS PRIOR TO INITIATING OPERATIONS WITHIN THE NEWLY PROPOSED STAGING AREAS.
2. STAGING OF MATERIALS OR EQUIPMENT AND TEMPORARY STOCKPILE AREAS SHALL NOT OCCUR IN ANY NATURAL VEGETATION COMMUNITIES INCLUDING WETLANDS. THE SEPARATION DISTANCE BETWEEN SUCH AREAS AND ADJACENT WETLANDS OR OTHER SURFACE WATERS SHALL BE AT LEAST 50 FEET. ANY MATERIAL POTENTIALLY SUBJECT TO EROSION OR SUBJECT TO DISCHARGE OF POLLUTANTS THAT WILL BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION/SEDIMENT CONTROL DEVICES. ALL PROPOSED TEMPORARY STOCKPILE AREAS MUST FIRST BE APPROVED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.

1. PRIOR TO CONSTRUCTION AND DURING ALL OPERATIONS THAT MAY DEGRADE WATER QUALITY IN WATERS OF THE STATE/WATERS OF THE UNITED STATES (INCLUDING WETLANDS), THE CONTRACTOR SHALL ENSURE THAT SEDIMENT, EROSION, AND TURBIDITY CONTROLS ARE EMPLOYED AS NECESSARY TO PREVENT VIOLATIONS OF APPLICABLE WATER QUALITY STANDARDS AS SET FORTH IN CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE. NO DEGRADATION OF WATER QUALITY AND/OR INCREASED TURBIDITY IN ADJACENT WETLANDS/SURFACE WATERS WILL BE PERMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT APPLICABLE WATER QUALITY STANDARDS ARE MAINTAINED BY PREVENTING THE DISCHARGE OF FOREIGN MATERIALS AND THE DISCHARGE OF SEDIMENTS INTO ADJACENT WETLANDS AND SURFACE WATERS. THE CONTRACTOR SHALL UTILIZE THE BEST AVAILABLE MEANS OF EROSION AND TURBIDITY CONTROL MEASURES TO ISOLATE WORK AREAS AT ALL TIMES. THESE MEASURES SHALL BE MAINTAINED FUNCTIONAL FOR THE DURATION OF THE PROJECT. THE CONTRACTOR'S METHODS OF SEDIMENT/EROSION/TURBIDITY CONTROL SHALL COMPLY WITH FDOT SEC. 104, INCLUDING MAINTENANCE, AND FDOT INDEX 102, UNLESS OTHERWISE APPROVED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.
2. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER ANY CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE INITIATION OF STABILIZATION MEASURES SHALL BEGIN NO LATER THAN SEVEN (7) DAYS FOLLOWING THE TEMPORARY OR PERMANENT CESSATION OF CONSTRUCTION ACTIVITIES IN A PARTICULAR AREA. TURBIDITY CONTROL DEVICES (E.G. TURBIDITY BARRIERS, SEDIMENT AND EROSION CONTROL DEVICES/BARRIERS) SHALL REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED AREAS ARE APPROPRIATELY STABILIZED. TURBIDITY/EROSION/SEDIMENT CONTROL DEVICES (PERIMETER CONTROLS) SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER RECEIVING AUTHORIZATION FROM THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.
3. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN A RAIN GAGE AT THE PROJECT SITE AND RECORD THE DAILY RAINFALL. WHERE AREAS HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY TWO WEEKS UNTIL THE NOTICE OF TERMINATION IS FILED.
POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES (WETLANDS, OTHER SURFACE WATERS).
DISTURBED PORTIONS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
AREAS USED FOR STORAGE OR STOCKPILING OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
STRUCTURAL CONTROLS (TURBIDITY/EROSION/SEDIMENT CONTROL DEVICES).
LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGE OF POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS APPROVED BY THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE.

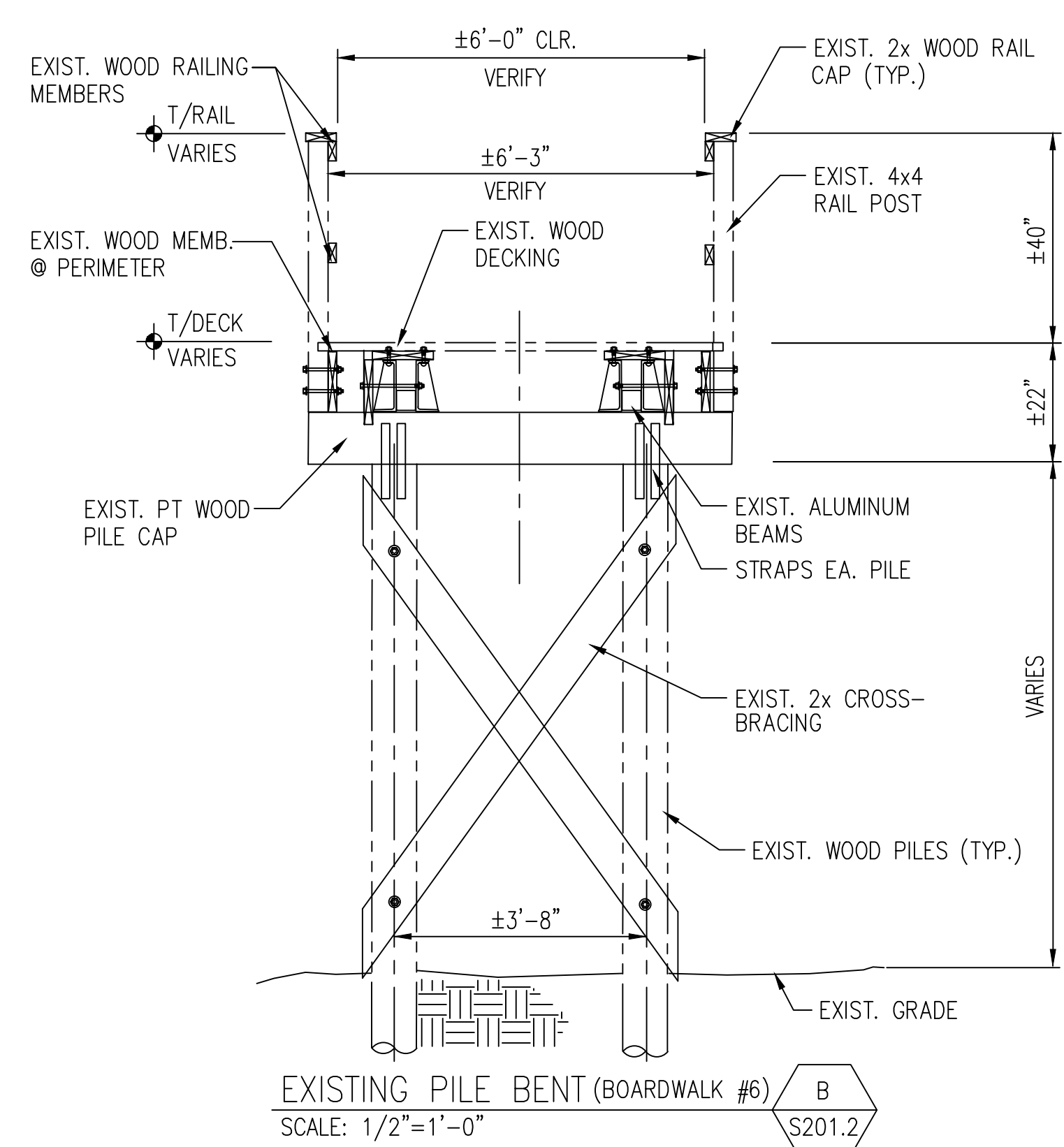
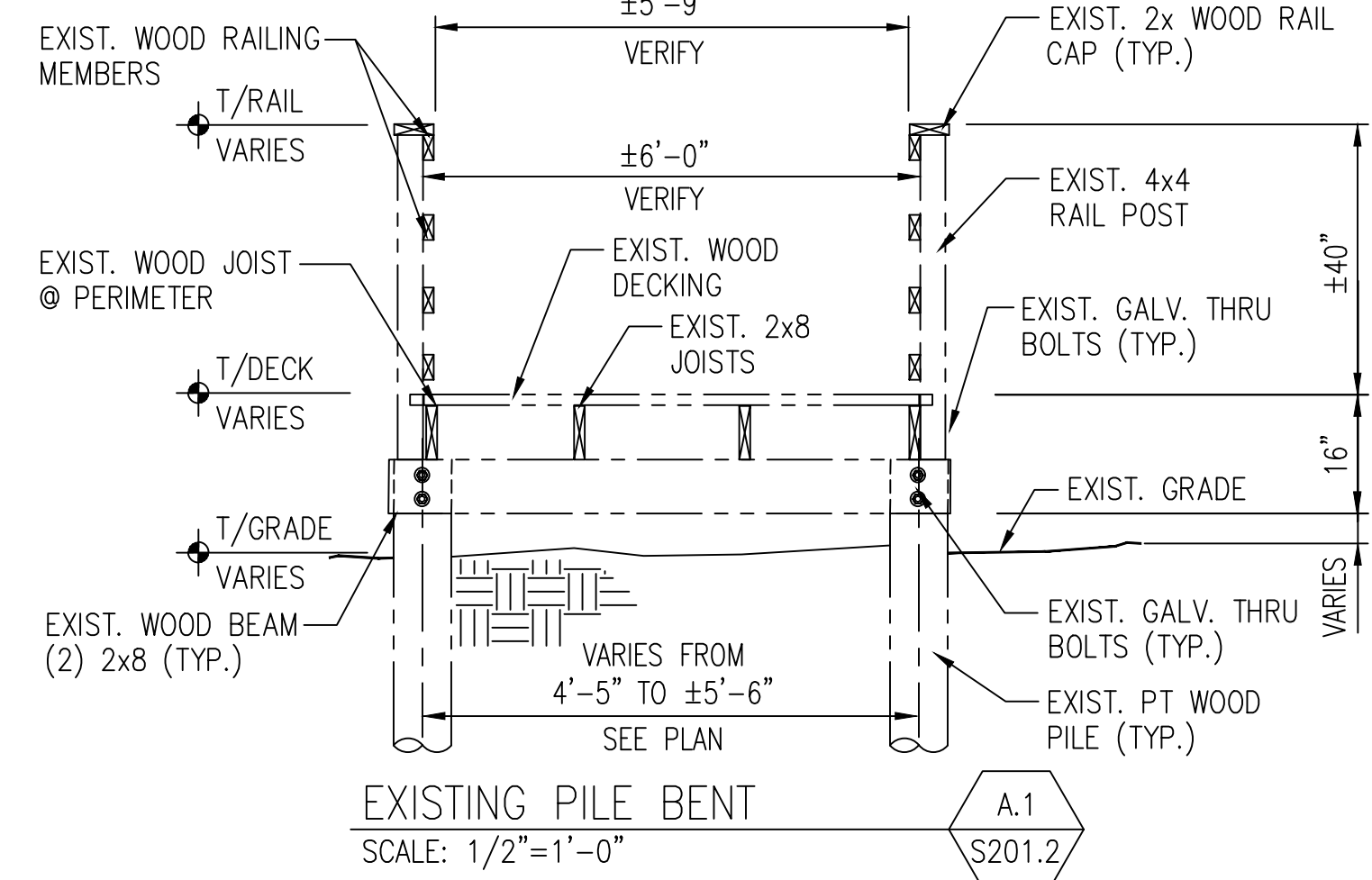
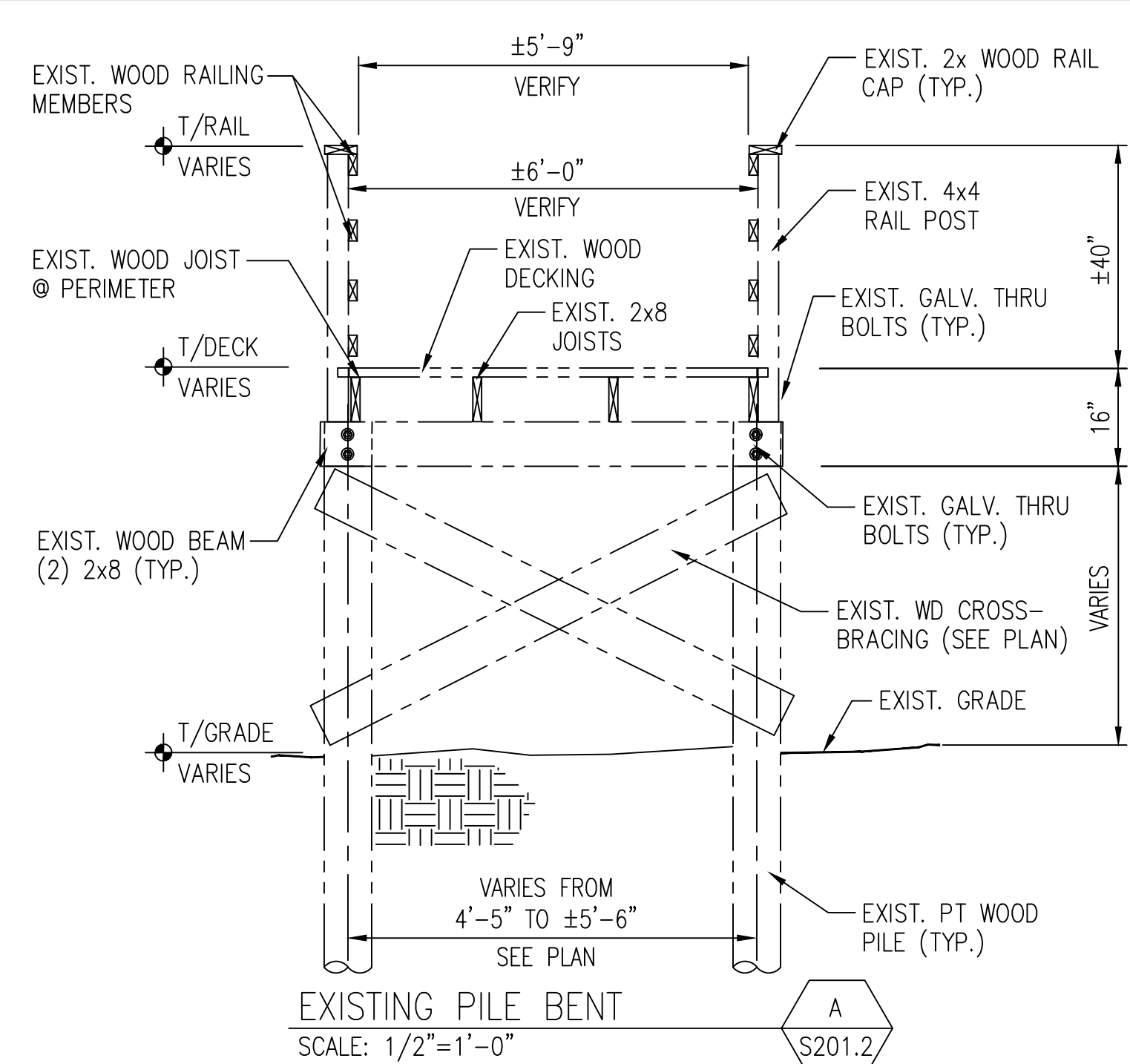
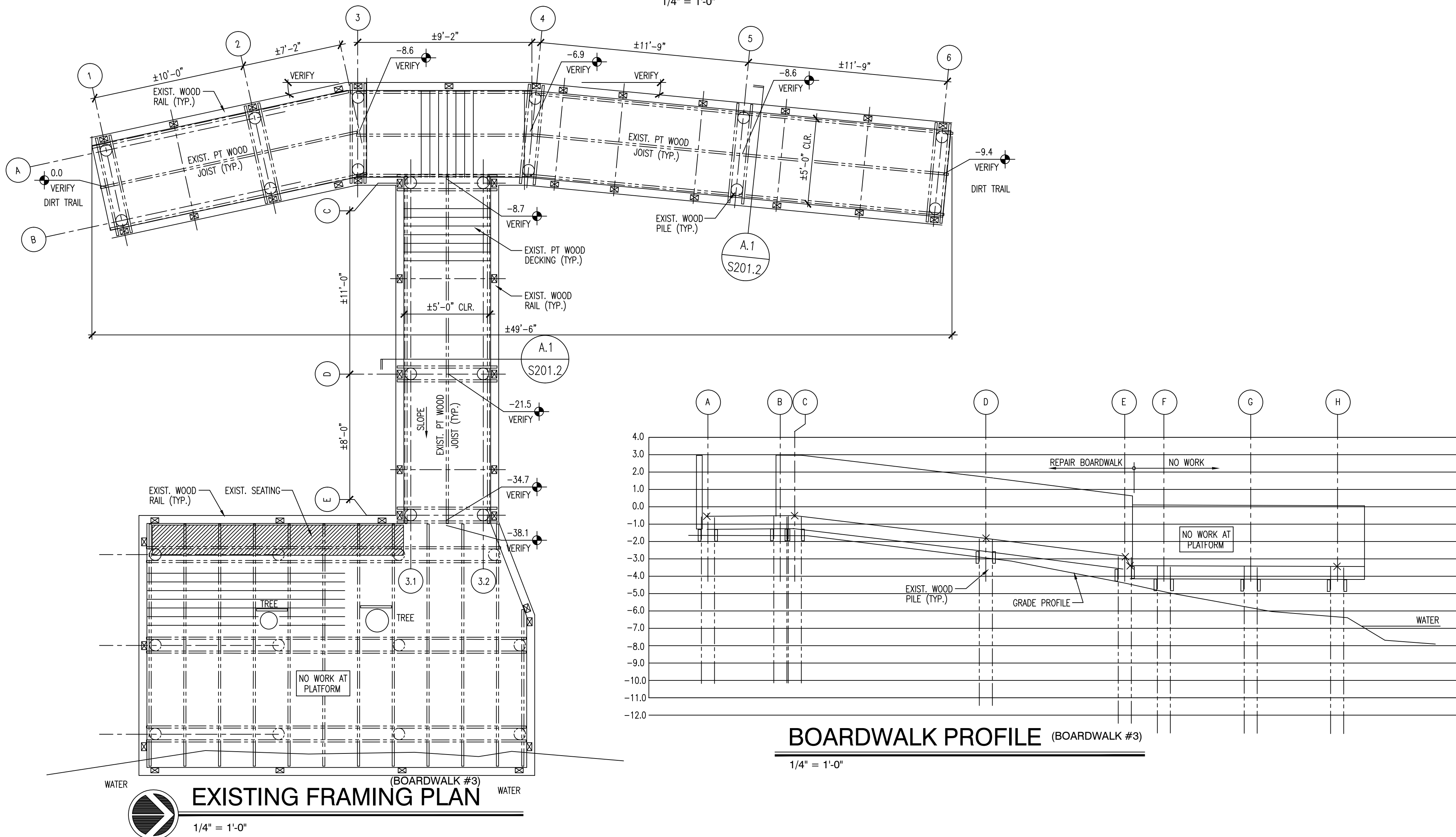
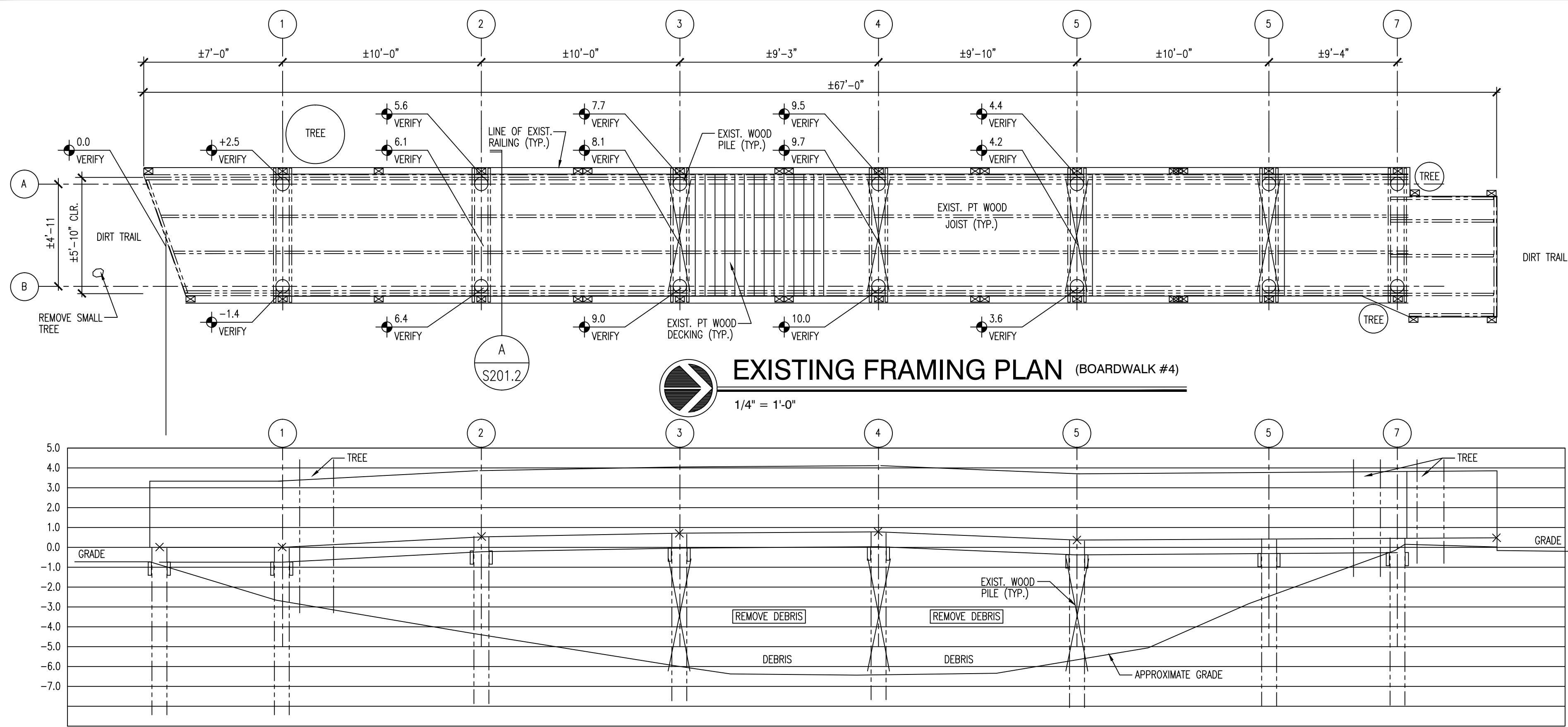
4. THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL PLAN AND SUBMIT THIS AT THE TIME OF THE PRE-CONSTRUCTION MEETING TO THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE FOR APPROVAL. THE EROSION CONTROL PLAN SHALL, AT A MINIMUM, ADDRESS ALL ITEMS IDENTIFIED IN FDOT SEC. 104-5(1)-(2) AND THE NATIONAL POLLUTANT DISCHARGE REGULATION SYSTEM (NPDES).
5. THE CONTRACTOR DESIGNED AND CONSTRUCTION OF ANY PERMITTING OR CERTAIN DISCHARGE ACTIVITY, THEY ARE RESPONSIBLE FOR OBTAINING AND DETERMINING PERMITS REQUIRED. THE WATER MANAGEMENT DISTRICT, IF NECESSARY, PERMIT/AUTHORIZATION MUST BE SECURED PRIOR TO INITIATION OF DEWATERING ACTIVITIES AND A COPY OF THE PERMIT PROVIDED TO THE FDEP PROJECT MANAGER OR MANAGER'S DESIGNEE. ANTICIPATED DEWATERING ACTIVITIES MUST ALSO BE ADDRESSED IN CONTRACTOR'S EROSION CONTROL PLAN. THE DISCHARGE OF WATER FROM ANY DEWATERING ACTIVITY INTO WETLANDS OR OTHER SURFACE WATERS IS STRICTLY PROHIBITED. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING.

SHEET NO.		S102	
O'LENO STATE PARK		GENERAL NOTES	
SHEET TITLE		BOARDWALK REPLACEMENT	
PROJECT TITLE			
DESIGNER : JGP DRAWN BY: AUV REVIEWED BY: JGP		ISSUE DATE: 08/04/25 CONSULTANT CONTRACT No.: CN825 STATE PROJECT No.: 61559C	
Consultant : JGP STRUCTURAL GROUP, INC. Jeffery G. Parzych, P.E. #52077 1221 West Thorpe Street Tallahassee, Florida 32303 Phone: 904-501-7288 Fax: 904-574-2788 contact@jgpstructural.com			
		Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157	



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ISSUE DATE: 08/04/25	CONSULTANT CONTRACT No.: CN825	STATE PROJECT No.: 61559C	DESIGNER: JGP	DRAWN BY: AJV	REVIEWED BY: JGP
Consultant: JGP STRUCTURAL GROUP, INC. Jeffrey G. Parzych, P.E. (FL Eng Lic No. 52077) 1221 West Thorpe Street Tallahassee, FL 32303 Tel: 904-574-2788 Fax: 904-574-2788 contact@jgpstructural.com					
JEFFREY G. PARZYCH LICENSE NO. 52077 STATE OF FLORIDA PROFESSIONAL ENGINEER					
O'LENO STATE PARK					
EXISTING BOARDWALK FRAMING PLAN AND PROFILE					
BOARDWALK REPLACEMENT					
SHEET NO. S201.1					



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08/04/25	CN825	61559C	JGP	AUV	JGP
SHEET NO.					
O'LENO STATE PARK					
EXISTING BOARDWALK					
FRAMING PLANS, PROFILES AND BENT SECTIONS					
PROJECT TITLE					
BOARDWALK REPLACEMENT					
S201.2					

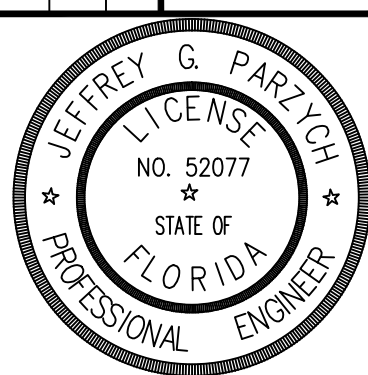
Department of Environmental Protection
Division of Recreation and Construction
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157

JEFFREY G. PARZYCH
LICENSE NO. 52077
STATE OF FLORIDA
PROFESSIONAL ENGINEER



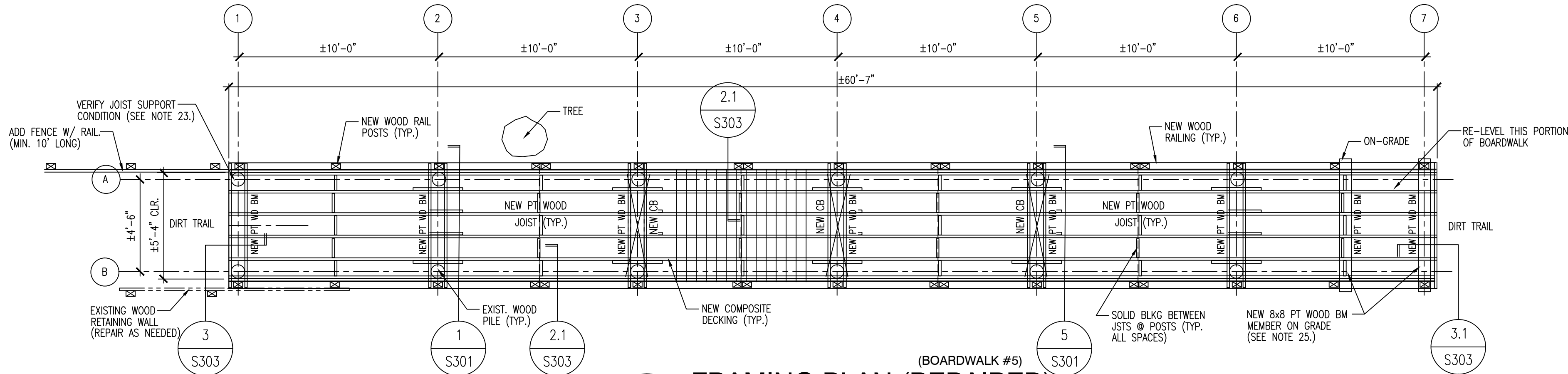
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| SHEET NO. | SHEET TITLE | <div style="display: flex; justify-content: space-between;"> <div> <p>O'LENO STATE PARK</p> <p>REPAIRED BOARDWALKS 1 & 2</p> </div> <div>  </div> </div> | | | | | | | | | |
| | | DESIGNER : | JGP | ISSUE DATE: | 08/04/25 | SYMBOL | | REVISION | | DATE | |
| | | DRAWN BY: | AJV | CONSULTANT CONTRACT No.: | CN825 | | | | | | |
| | | REVIEWED BY: | JGP | STATE PROJECT No.: | 61559C | | | | | | |

Consultant : JGP STRUCTURAL GROUP, INC.
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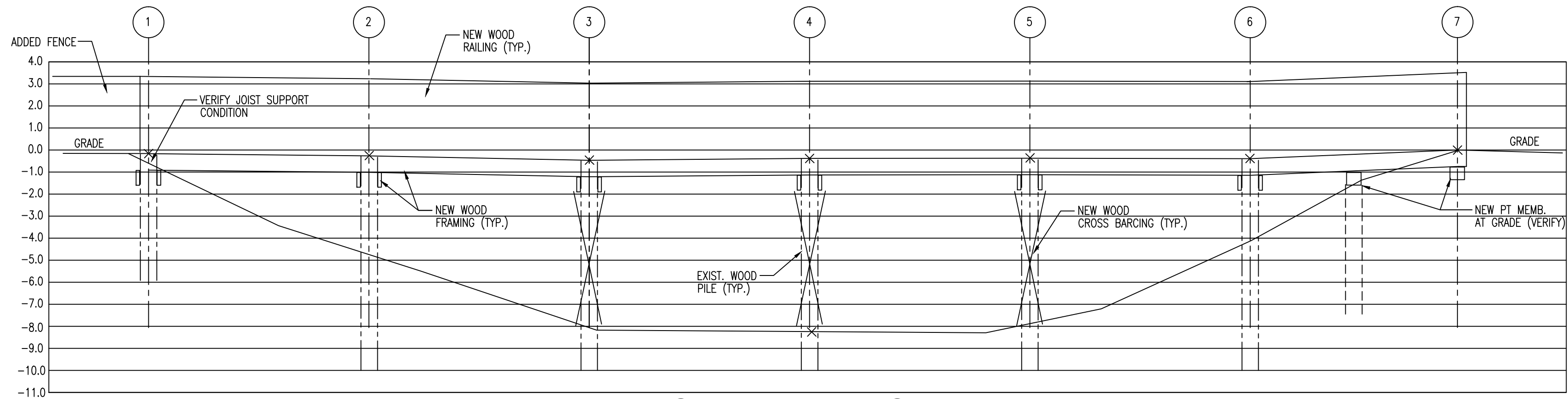


SHEET TITLE	PROJECT TITLE
O'LENO STATE PARK	REPAIRED BOARDWALKS 1 & 2 (FRAMING PLANS AND PROFILES)
	BOARDWALK REPLACEMENT

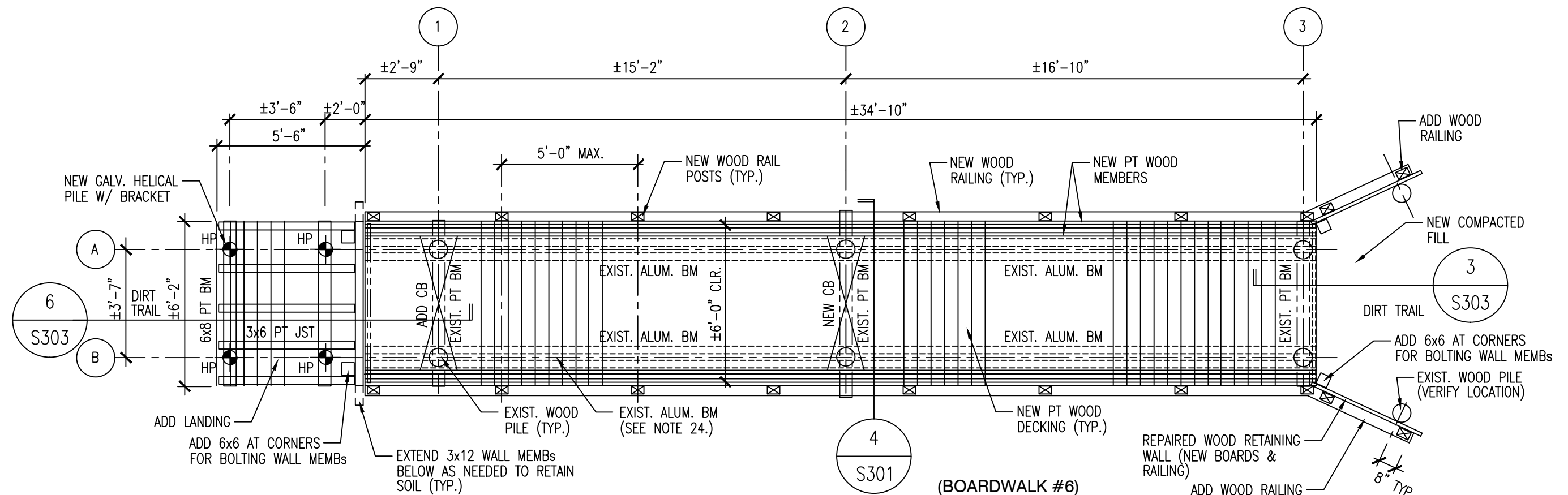
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FRAMING PLAN (REPAIRED)
1/4" = 1'-0"

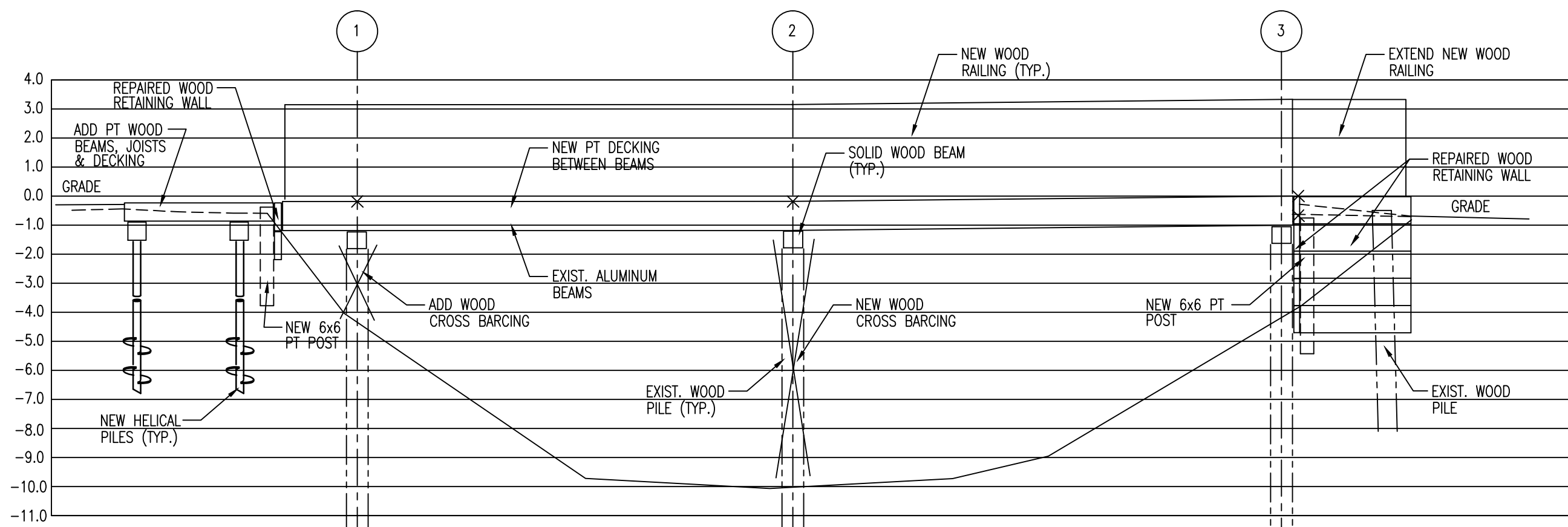


BOARDWALK PROFILE (BOARDWALK #5)
1/4" = 1'-0"



HP = GALV. HELICAL PILE W/ BEAM BRACKET
CB = PT WOOD CROSS-BRACING

FRAMING PLAN (REPAIRED)
1/4" = 1'-0"

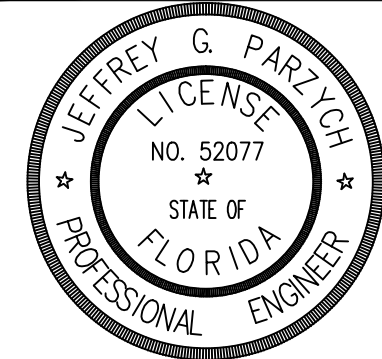


BOARDWALK PROFILE (BOARDWALK #6)
1/4" = 1'-0"

FRAMING PLAN REPAIR NOTES

- FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, SLOPES AND EXISTING CONDITIONS.
- VERIFY EXIST. ELEVATIONS OF EACH BOARDWALK SEGMENT, AT THE BEGIN AND END POINTS OF BOARDWALK AND AT LANDINGS AND AT-GRADE CONDITIONS. EXISTING PROVIDED DECK ELEVATIONS AND ASSUMED GRADES SHOWN IN PROFILES ARE TO BE CONSIDERED APPROXIMATE. FIELD VERIFY EXACT ELEVATIONS AND GRADE CONDITIONS.
- EXISTING WOOD PILES ARE TO REMAIN. IF DAMAGED PILES ARE OBSERVED, NOTIFY THE OWNER AND ENGINEER.
- ALL BOARDWALK FRAMING SHALL BE PRESSURE TREATED LUMBER. DECKING AND TOP RAIL TO BE COMPOSITE MATERIAL. DECK BOARDS TO BE "MOISTURE SHIELD VANTAGE, MARINE GRADE 2x" COMPOSITE DECK BOARDS, EARTHTONE COLOR OR EQUAL. SECURE W/ (2) #7 x 2 1/4" STAINLESS STEEL DECK SCREWS EA. SUPPORT. INSTALL DECK BOARDS & FASTENERS WITH PROPER SPACING PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ALL CONNECTORS, PLATES, FASTENERS AND WASHERS SHALL BE HOT-DIP GALVANIZED OR 316 STAINLESS STEEL. BOLTS AND FASTENERS IN CONTACT W/ THE GROUND TO BE SS. PROVIDE CONTINUOUS JOIST CONDITIONS WHERE NOTED AND WHERE POSSIBLE. SEE SPLICE DETAILS FOR FASTENING REQUIREMENTS AT INTERIOR AND PERIMETER JOISTS.
- PROVIDE PROPER SIZE HOLES FOR ALL BOLTS, LAG SCREWS AND FASTENERS.
- CONTRACTOR TO COORDINATE LOCATION OF RAIL POSTS WITH PILE/BENT LAYOUT. INSTALL DOUBLE RAIL POSTS AT TOP & BOT. OF RAMPS & AT DIRECTION CHANGES OF BOARDWALK. RAIL POSTS MUST NOT BE NOTCHED, CUT OR MODIFIED WITHOUT ENGINEER APPROVAL.
- PROVIDE SOLID WOOD BLOCKING OVER BEAMS PERPENDICULAR BETWEEN JOISTS.
- IF REQUIRED, PROVIDE 316 SS PLATES AND BRACKETS AS REQ'D TO PROPERLY FASTEN WOOD MEMBERS.
- WHERE REQUIRED, REBUILD THE BENCH SEATING AREAS AT THE WDENED PORTIONS OF THE BOARDWALK. THE SEATING TO BE RE-BUILT TO MATCH EXISTING CONDITIONS.
- ALL JOISTS TO BE FASTENED TO SUPPORTING BEAM MEMBERS WITH SPECIFIED HURRICANE CLIPS AND FASTENERS. ALL HURRICANE CLIPS AND FASTENERS TO BE SS.
- ALL WOOD BLOCKING TO BE FASTENED W/ CLIPS OR TOE-NAILED TO ADJACENT MEMBERS. PROVIDE SOLID PT WOOD BLOCKING BETWEEN JOISTS AT INTERMEDIATE RAIL POSTS.
- REMOVE AND REPLACE WOOD CROSS BRACING BETWEEN PILES. USE EXIST. BOLT HOLES TO CONNECT NEW CROSS BRACING USING SAME NUMBER OF BOLTS.
- ALL BEAMS AND JOISTS INCLUDING MEMBERS IN CONTACT WITH THE GROUND SHALL BE TREATED FOR GROUND CONTACT. SEE NOTES SHT S101.
- PROVIDE SAFETY BARRIERS, FENCES, SIGNS, ETC. TO PREVENT PUBLIC ACCESS TO THE WORK AREA. COMPLY WITH PARK AND BDC STANDARDS/REQUIREMENTS.
- CONTRACTOR SHALL ACCOUNT FOR VARIATIONS IN PILE DIAMETER WHEN CONNECTING MEMBERS AND FABRICATING PLATES AND CONNECTIONS.
- SEE SHEET S201.2 FOR EXISTING PILE BENT SECTIONS.
- SEE SHT S302 FOR NEW BOARDWALK ELEVATIONS & SHT S303 FOR TYPICAL CONNECTION DETAILS.
- RAIL POSTS ARE CONNECTED TO SUPPORTING MEMBERS, PILES AND/OR STEEL BRACKETS W/ MIN. (2) 1/2" DIA. GALV. THRU BOLTS UNLESS OTHERWISE NOTED.
- INSTALL STEEL THRU BOLTS OF PROPER DIAMETER AND LENGTH WITH LOCKING WASHERS. THREADED RODS ARE NOT TO BE USED.
- INSTALL HELICAL PILES AND BRACKETS AT BOARDWALK #6 AS INDICATED. IF PILES CAN NOT BE INSTALLED WHERE NOTED, NOTIFY ENGINEER.
- REPAIR WOOD RETAINING WALLS EACH END OF BOARDWALK #6. VERIFY CONDITIONS AND PROVIDE COMPACTED FILL AT EACH LOCATION AS REQUIRED. EXISTING CONDITIONS COULD MODIFY THE SPECIFIED REPAIRS.
- EXIST. ALUMINUM BEAM CONDITIONS AT BRDALK #6 ARE TO BE VERIFIED. VERIFY THAT BEAMS DO NOT HAVE DAMAGE AND VERIFY BOLTING AND CONNECTING OF MEMBERS INCLUDING ATTACHMENT OF WOOD MEMBERS. EXISTING WOOD MEMBERS ARE TO BE REMOVED AND REPLACED AND RE-CONNECTED TO ALUMINUM SECTIONS. NOTIFY ENGINEER AFTER REMOVAL OF EXISTING WOOD TO ALLOW OBSERVATION OF BEAMS. EXISTING CONDITIONS COULD MODIFY THE SPECIFIED REPAIR DETAILS. VERIFY ALUM. BM ANCHORAGE TO WOOD PILE CAP.
- VERIFY JOIST SUPPORT CONDITIONS AT ENDS OF BOARDWALKS AND WHERE NOTED, CONDITIONS SUCH AS THE PRESENCE OF WOOD PILES OR BEAMS WITH OUT PILES SUPPORTED ON COMPACTED EARTH ARE TO BE VERIFIED. EXISTING CONDITIONS COULD MODIFY THE SPECIFIED REPAIR. AT LOCATIONS WHERE PILES DO NOT EXIST, SEE SECT. 3.1/S303 FOR REPAIR DETAIL.

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O'LENO STATE PARK

REPAIRED BOARDWALKS 5 & 6
(FRAMING PLANS AND PROFILES)

BOARDWALK REPLACEMENT

SHEET TITLE
PROJECT TITLE

SHEET NO.

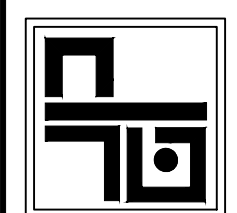
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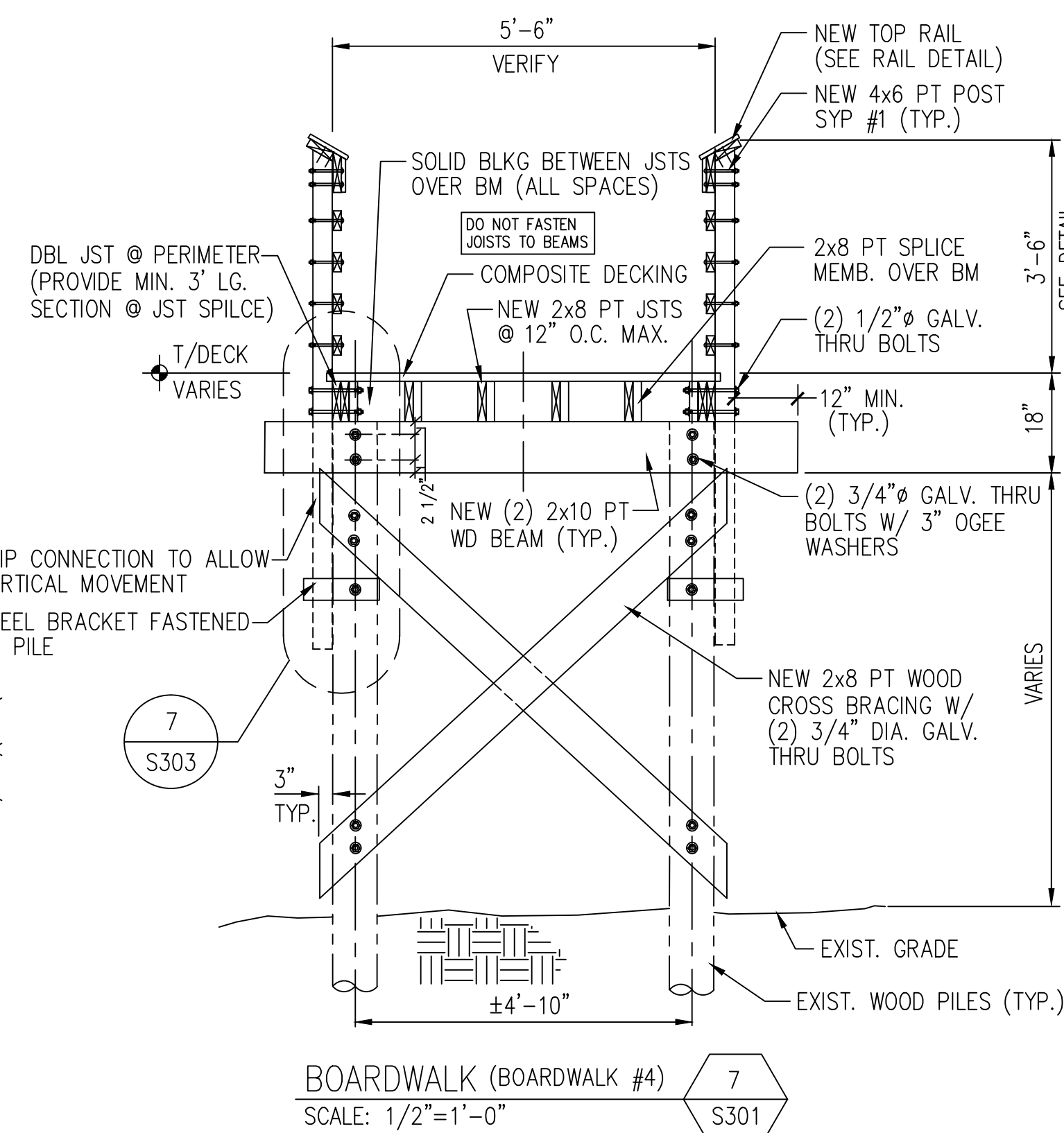
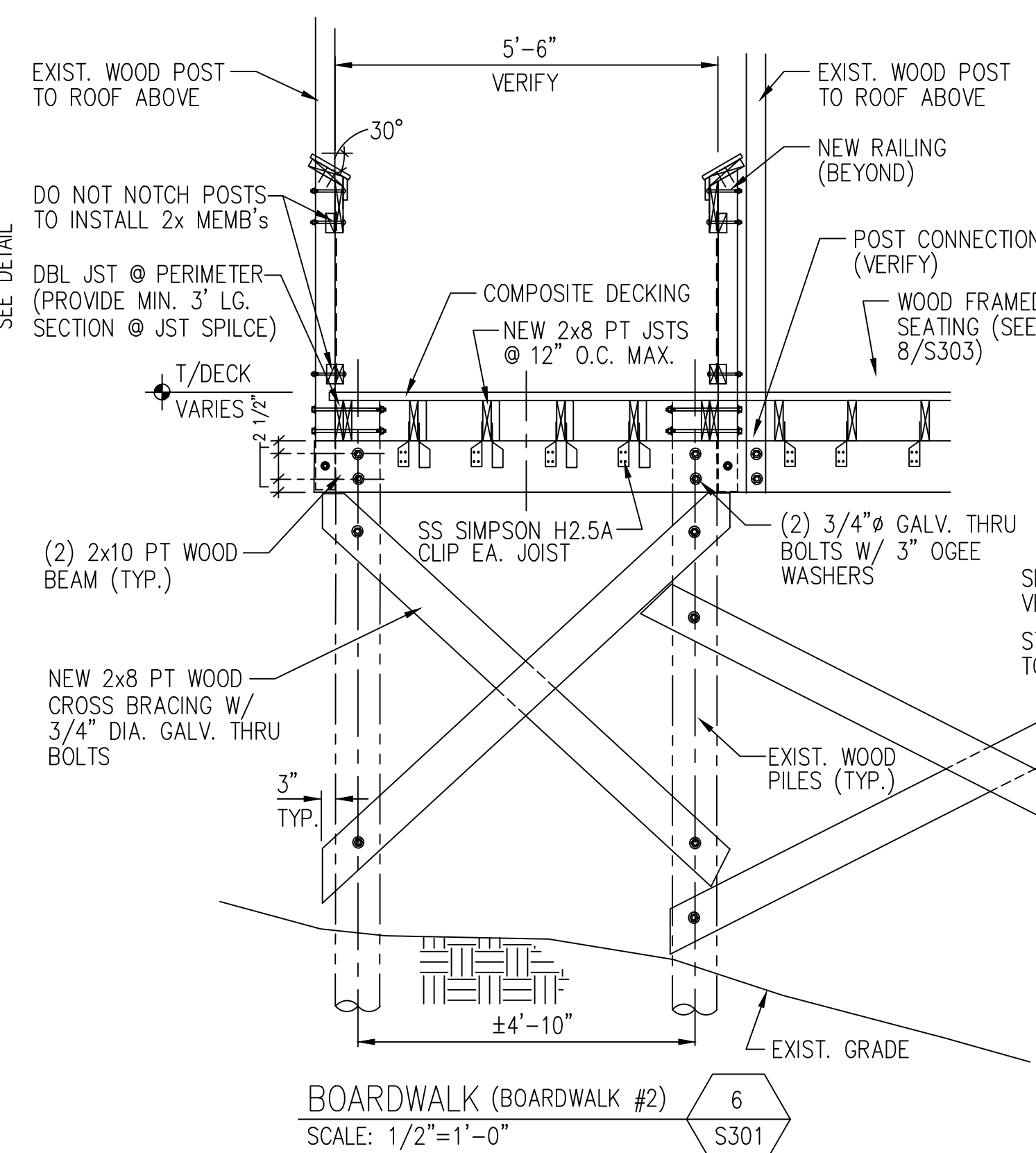
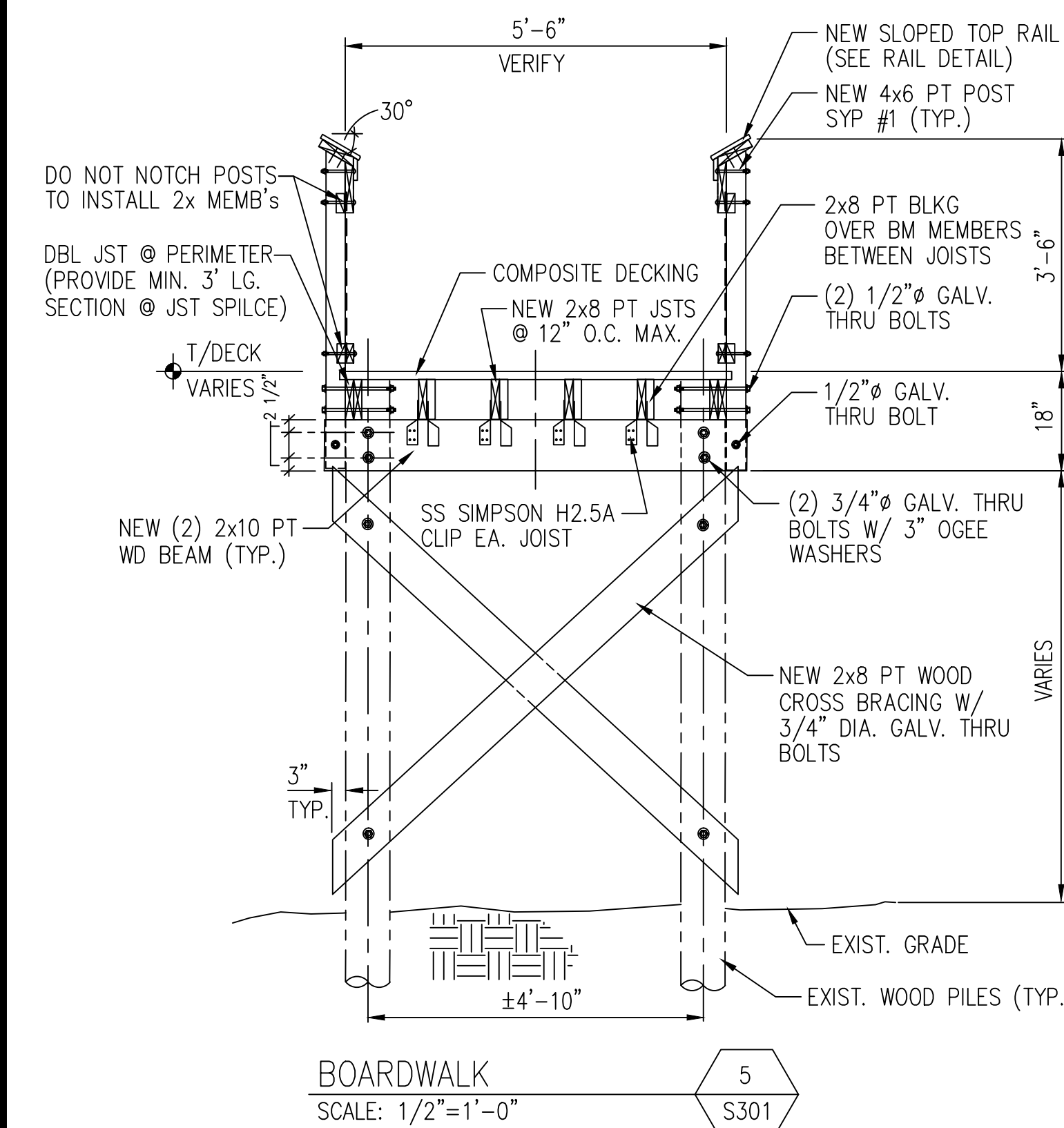
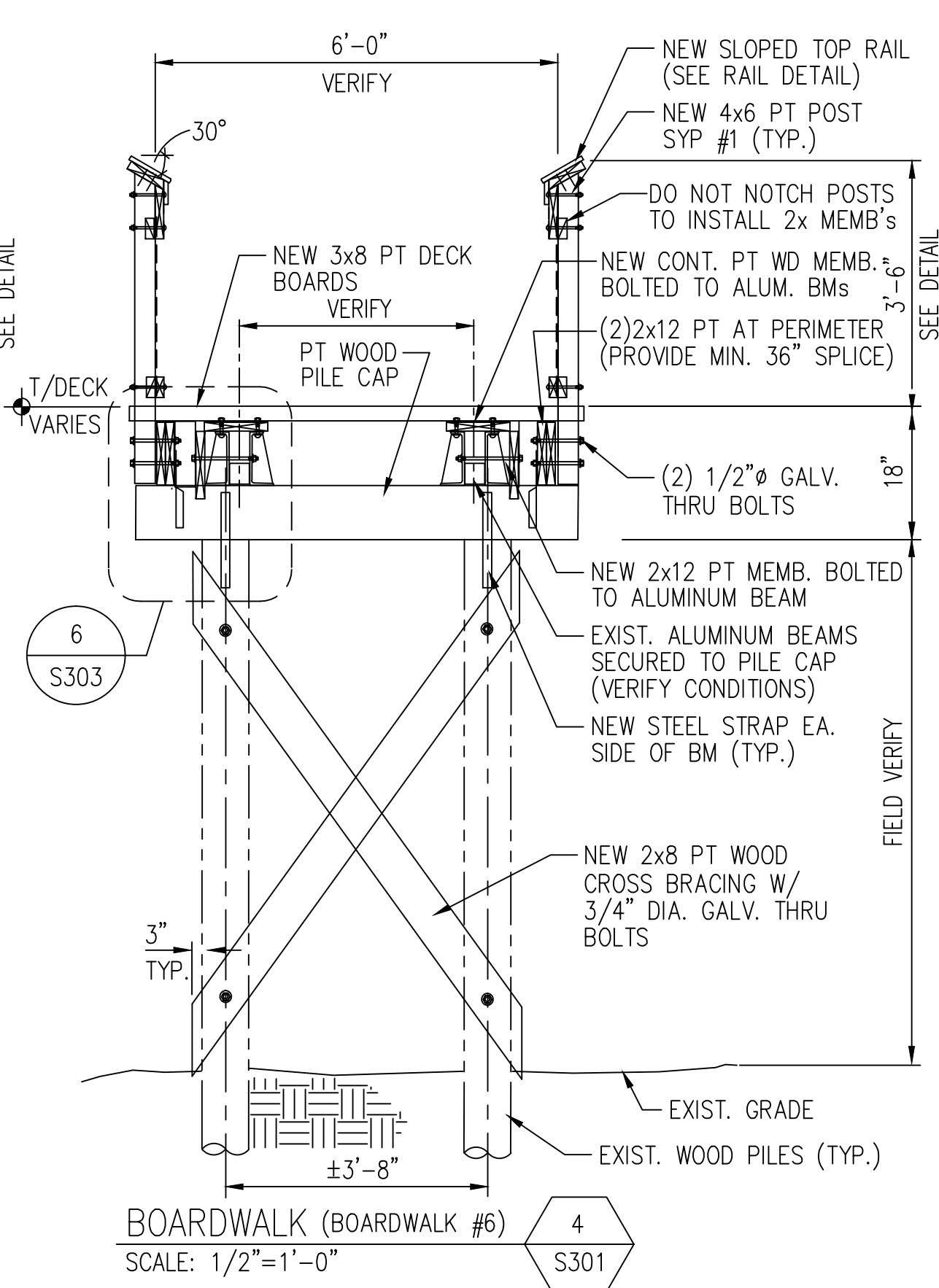
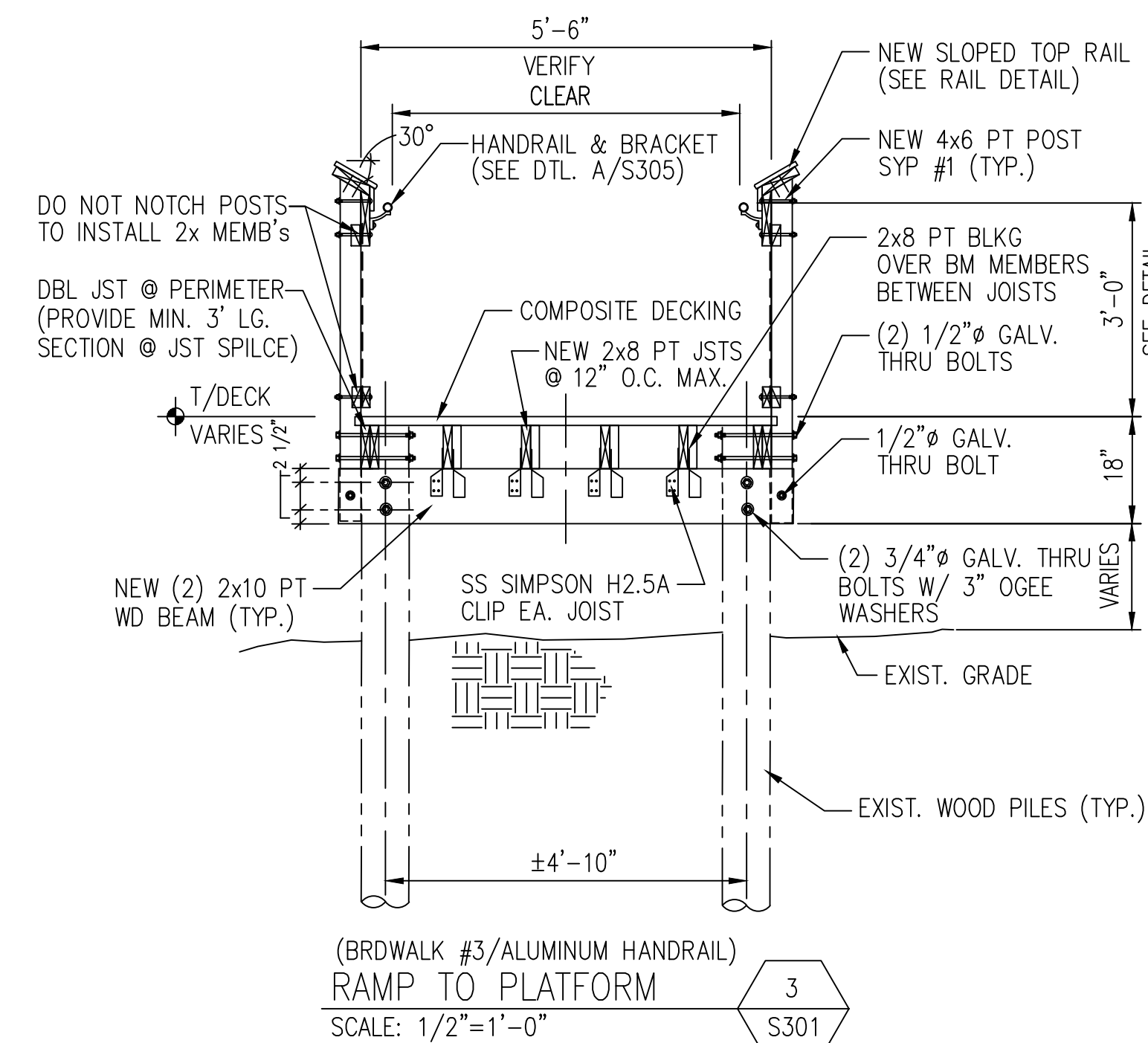
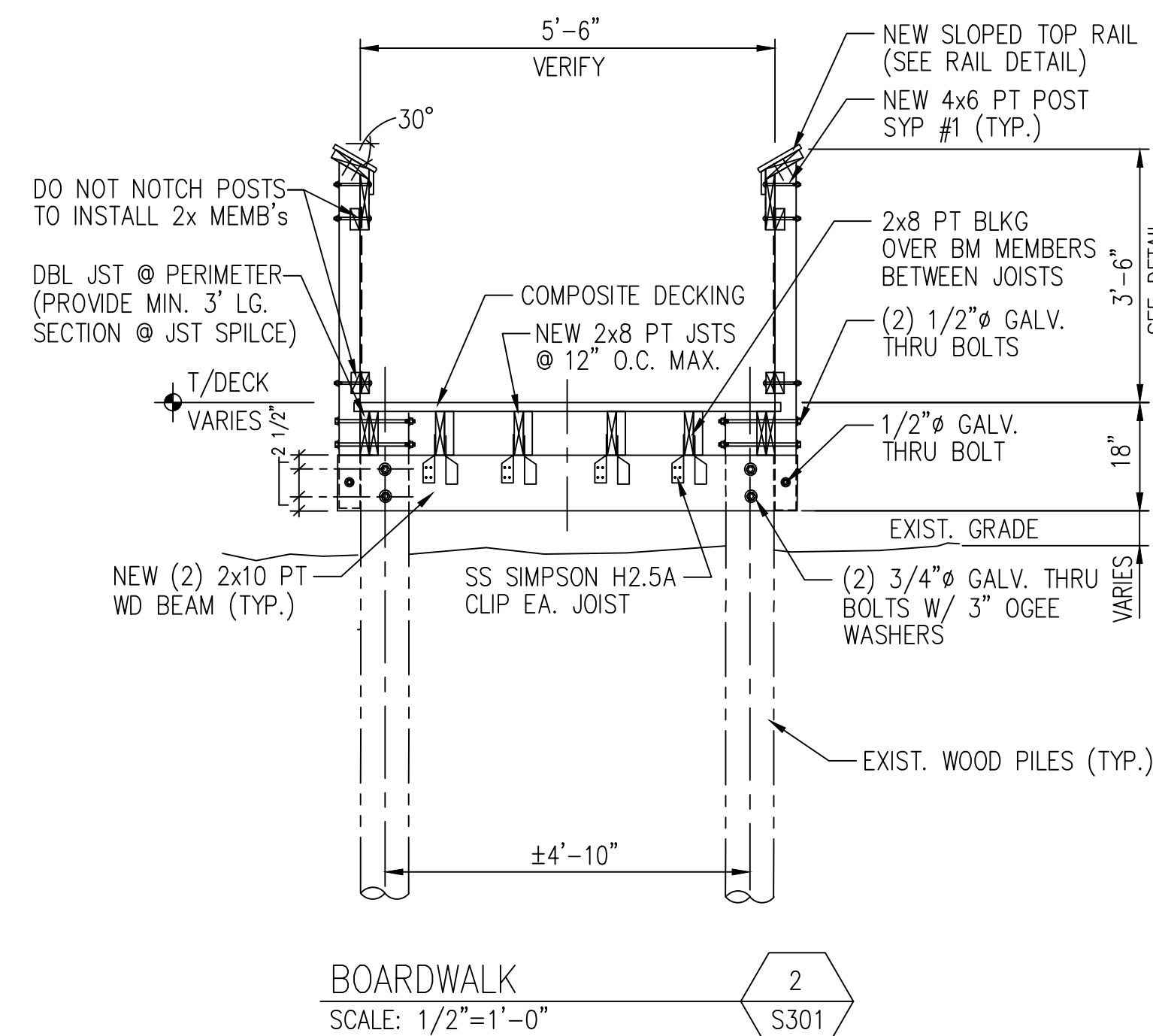
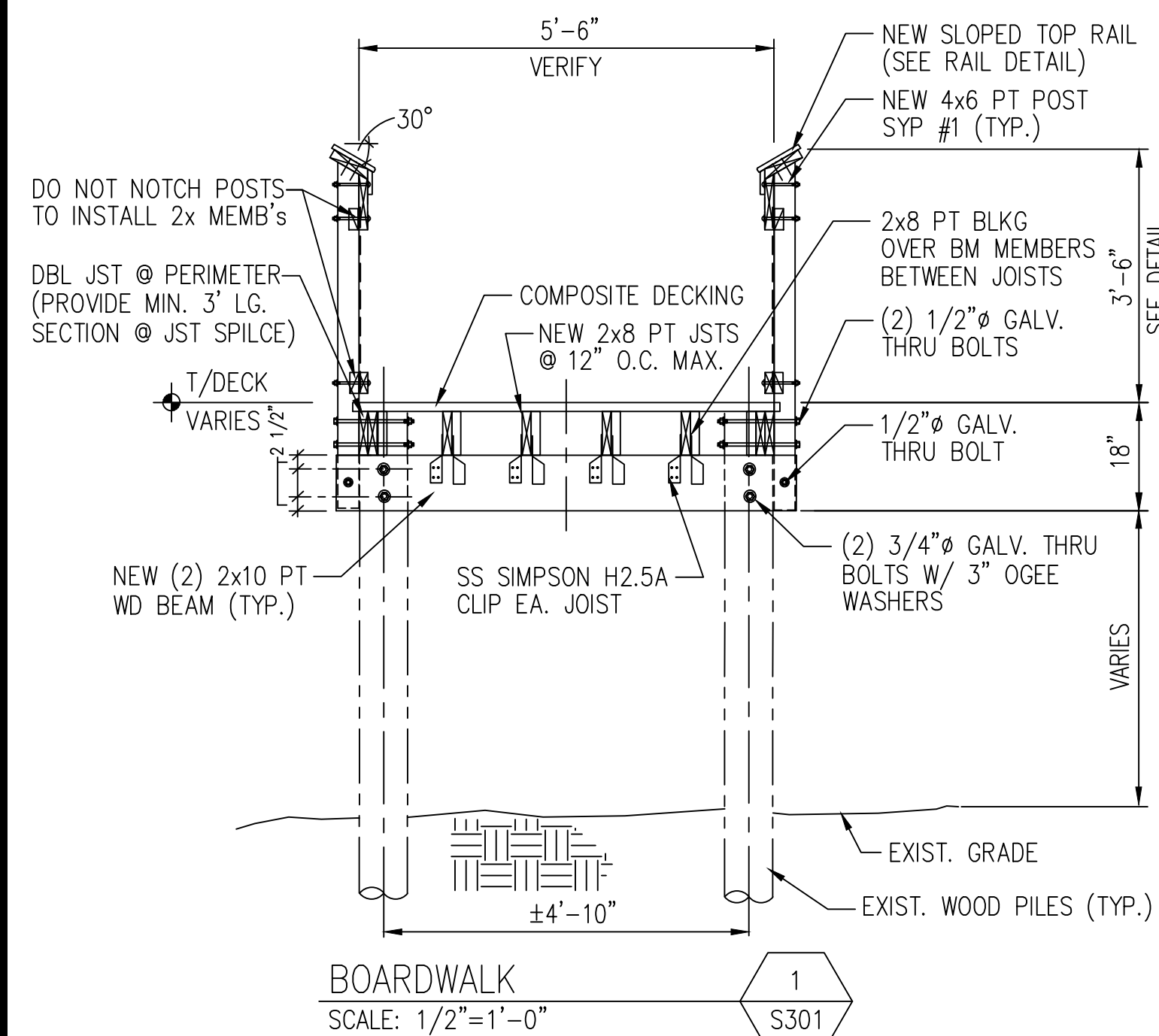
ISSUE DATE: 08/04/25
CONSULTANT CONTRACT No.: CN825
STATE PROJECT No.: 61559C

DESIGNER: JGP
DRAWN BY: AJV
REVIEWED BY: JGP

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Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157

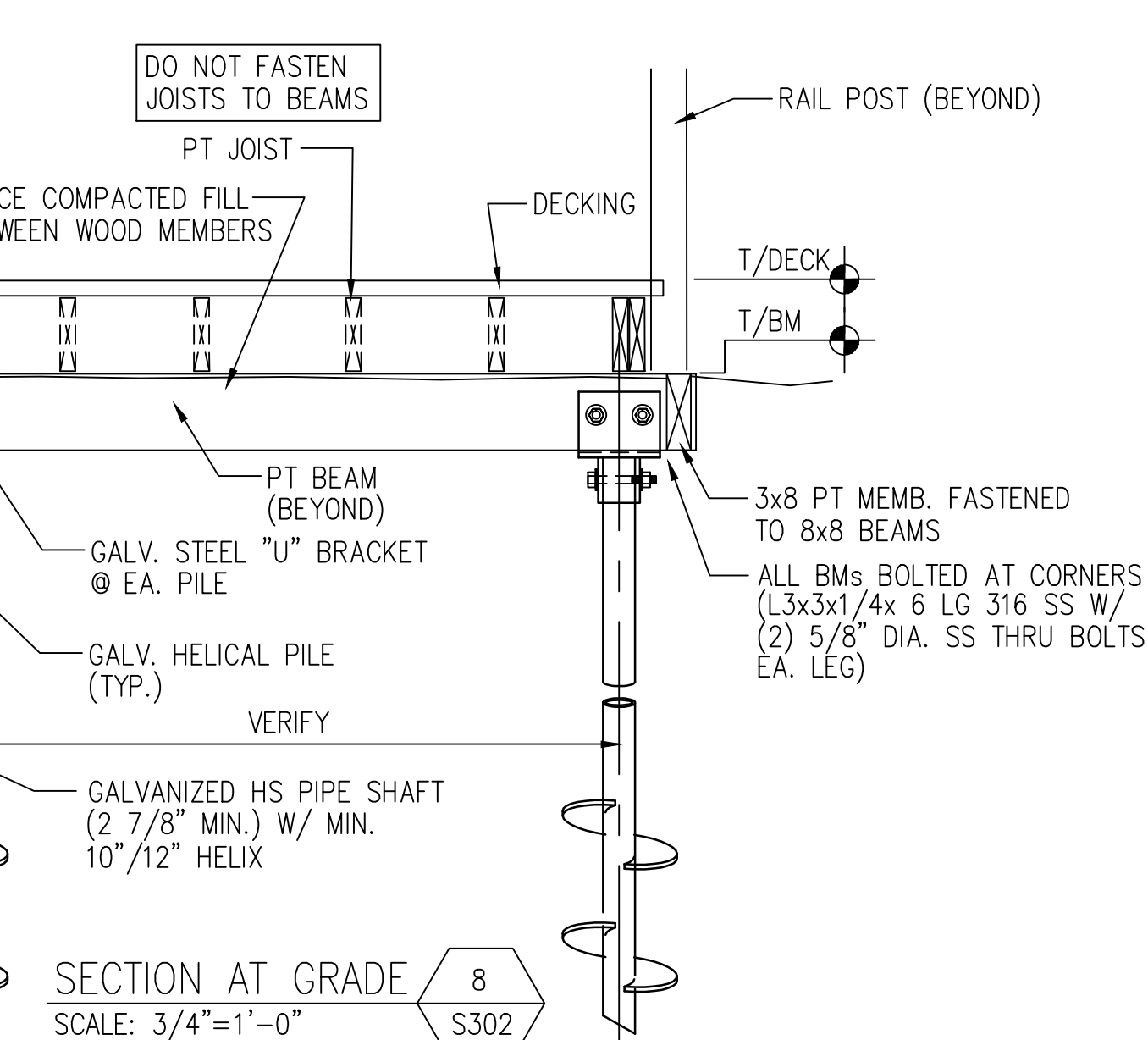
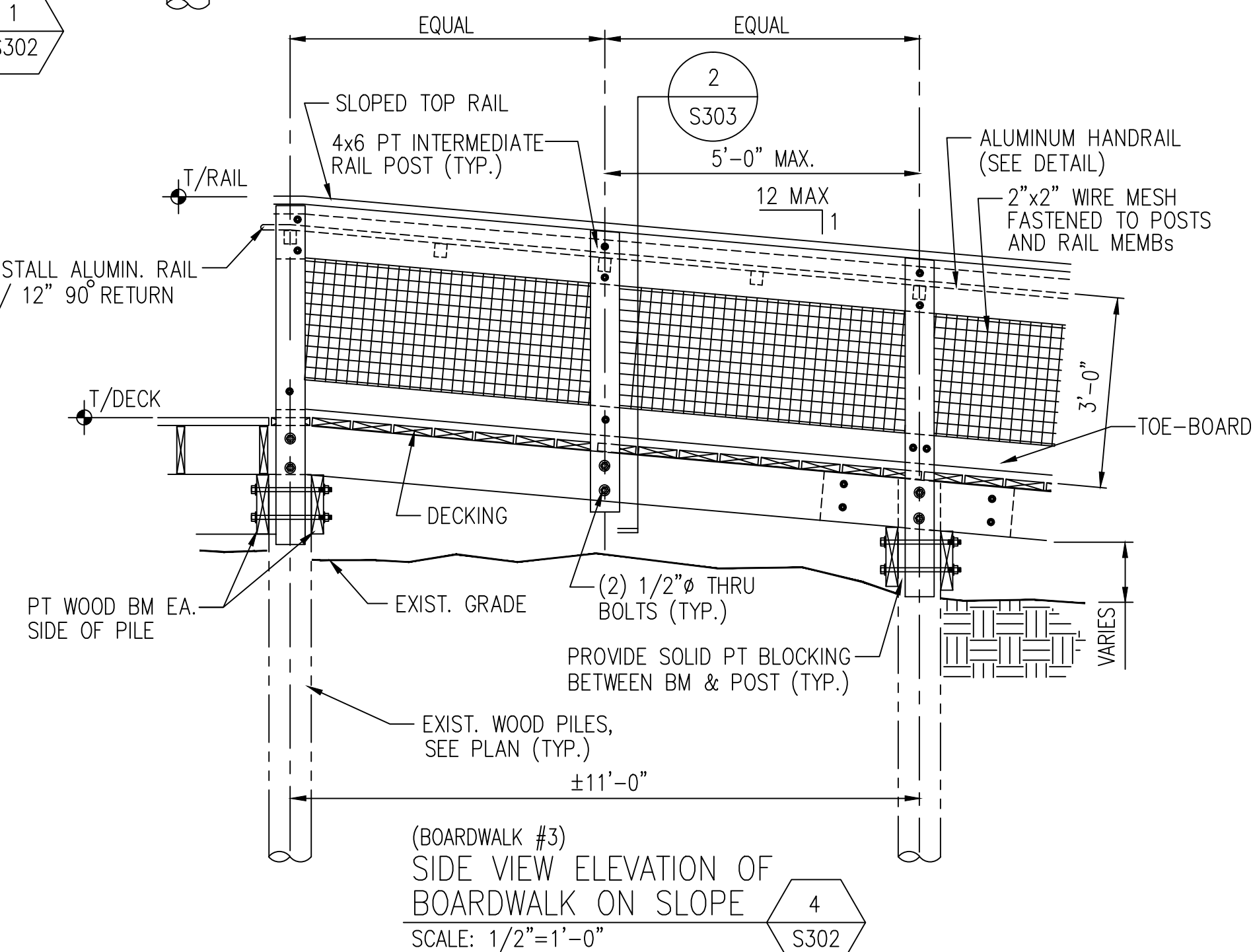
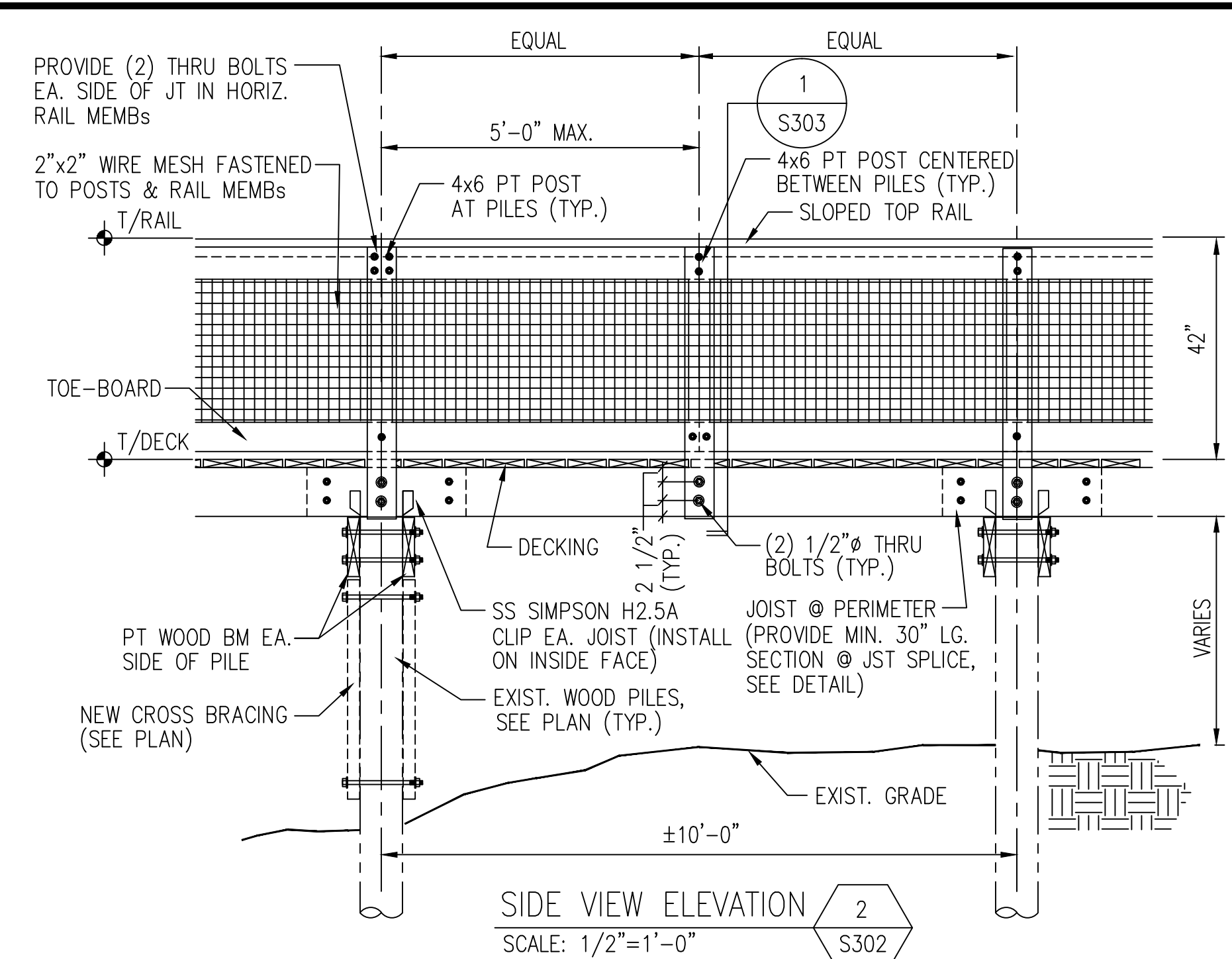


Consultant: JGP STRUCTURAL GROUP, INC.
Jeffrey G. Parzych, P.E. (FL Eng Lic No. 52077)
1221 West Thorpe Street
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Tel: 904-574-2788
Fax: 904-574-2788
contact@jgpstructural.com



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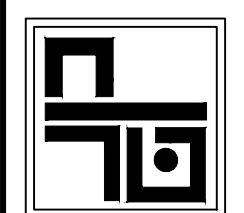
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PROJECT TITLE		BOARDWALK REPLACEMENT		REVIEWED BY: JGP		STATE PROJECT No.: 61559C		b		D			
				Consultant: JGP STRUCTURAL GROUP, INC. Cert. of Authorization #9811 Jeffrey G. Parzych, Reg. 052077 1221 West Park Street Tallahassee, Florida 32303 Phone: 904-574-7588 Fax: 904-574-2788 Contact: jgp@jgsstructural.com									
				JEFFREY G. PARZYCH LICENSE NO. 52077 STATE OF FLORIDA ENGINEER									
				Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157									



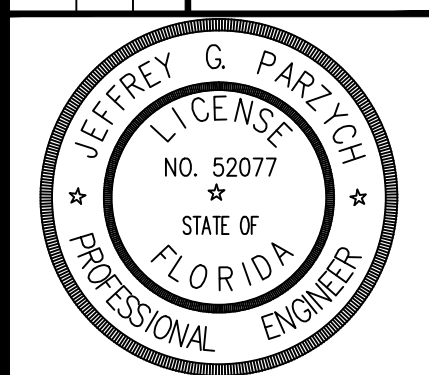
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DRAWN BY:	AJV	CONSULTANT CONTRACT No.:	CN825						
REVIEWED BY:	JGP	STATE PROJECT No.:	61559C						

*Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157*

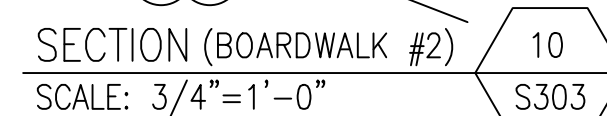
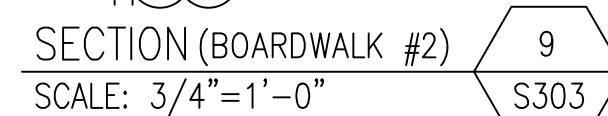
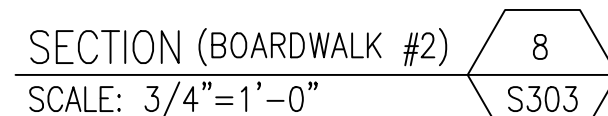
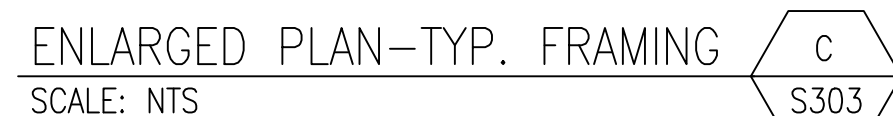
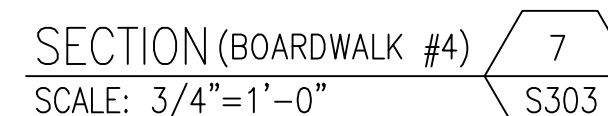
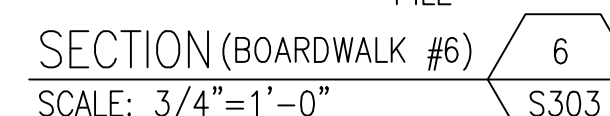
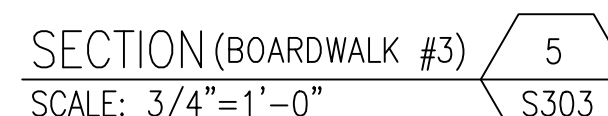
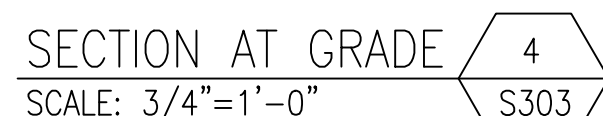
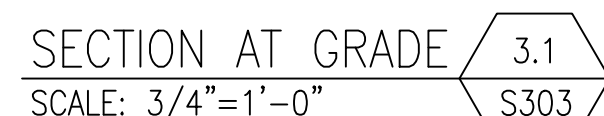
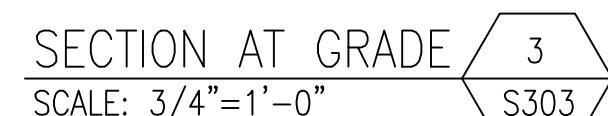
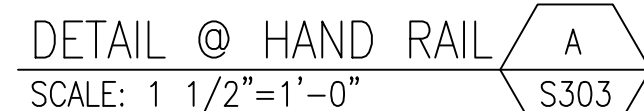


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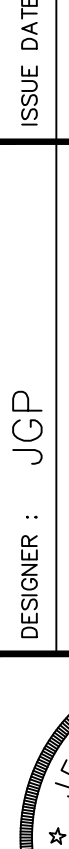
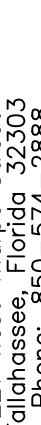


0'LENO STATE PARK	
SHEET TITLE	
BOARDWALK ELEVATIONS AND SECTIONS	
PROJECT TITLE	BOARDWALK REPLACEMENT

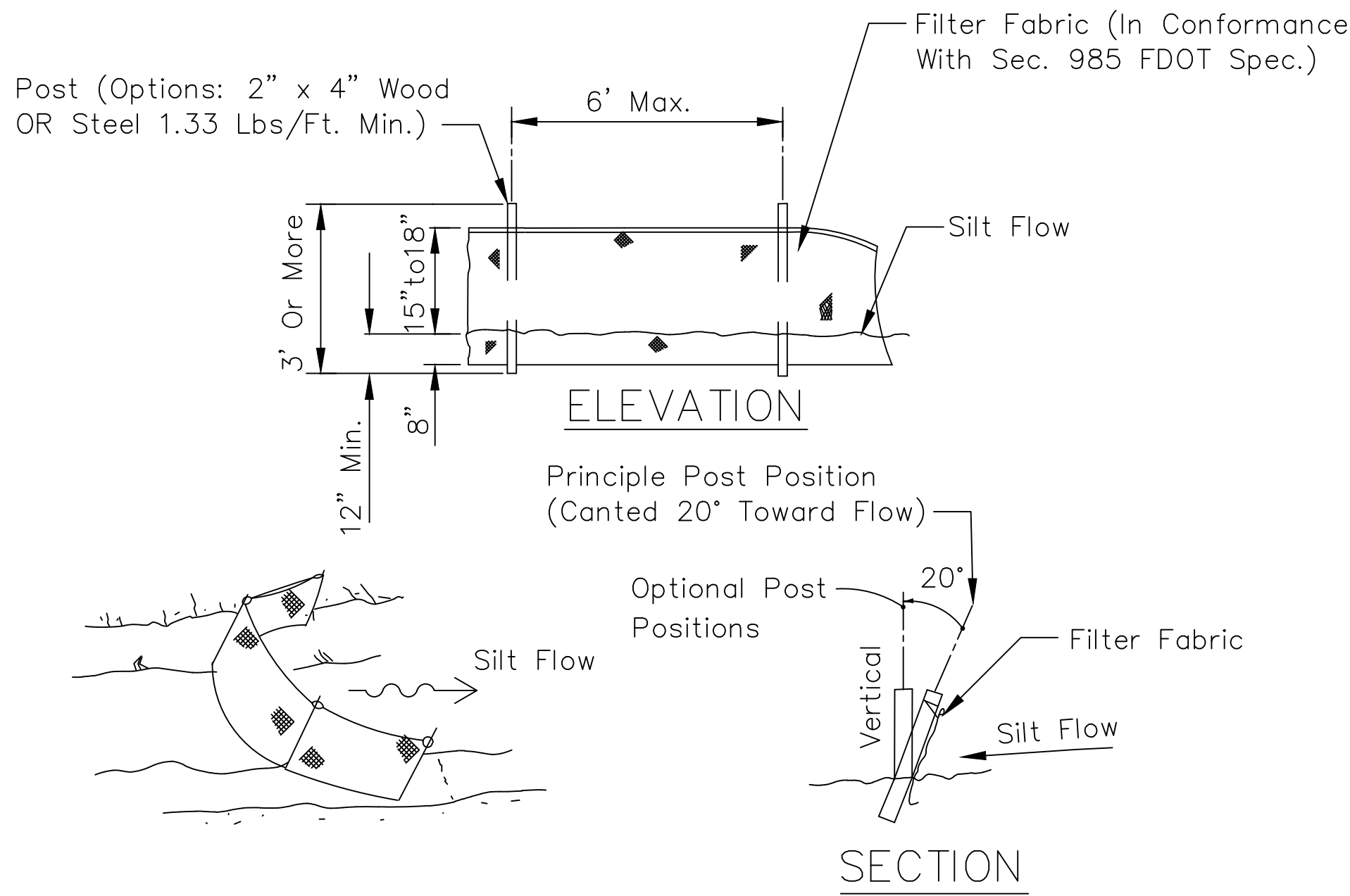
S302



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SHEET NO.	O'LENO STATE PARK	SECTIONS AND DETAILS	BOARDWALK REPLACEMENT		DESIGNER :	JGP	ISSUE DATE:	08/04/25	SUBMITTAL	REVISION	DATE
					DRAWN BY:	AJV	CONSULTANT CONTRACT NO.:	CN825	SUBMITTAL	REVISION	DATE
					REVIEWED BY:	JGP	STATE PROJECT NO.:	61559C	SUBMITTAL	REVISION	DATE
					Consultant : JGP STRUCTURAL GROUP, INC. Cert. of Authorization #9611 Jeff G. Parzych, P.E. 052077 1221 West Thorpe Street Tallahassee, Florida 32303 Tel: 904-574-2786 Fax: 904-574-2788 contact@jgpstructural.com						
Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157 											

S303



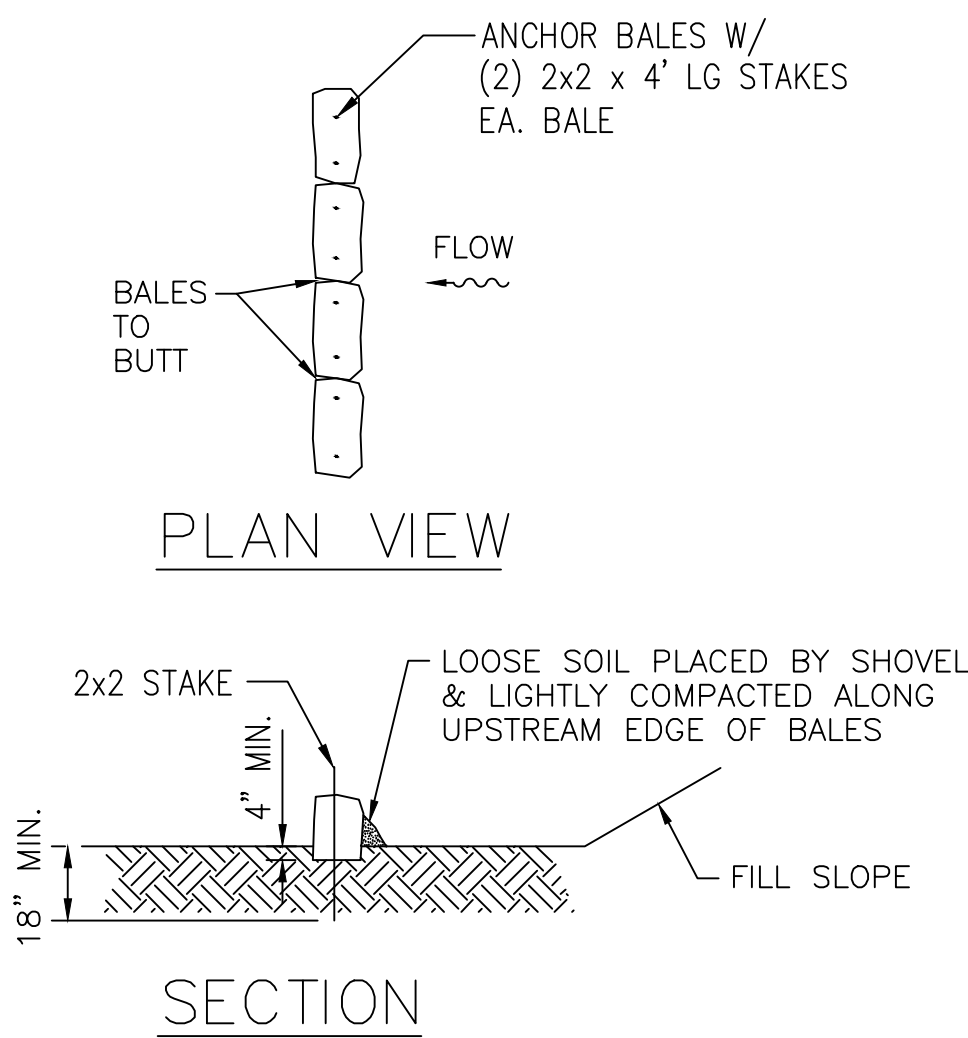
Note:
Spacing for Type III Fence to be in accordance with Chart I, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

TYPE III SILT FENCE

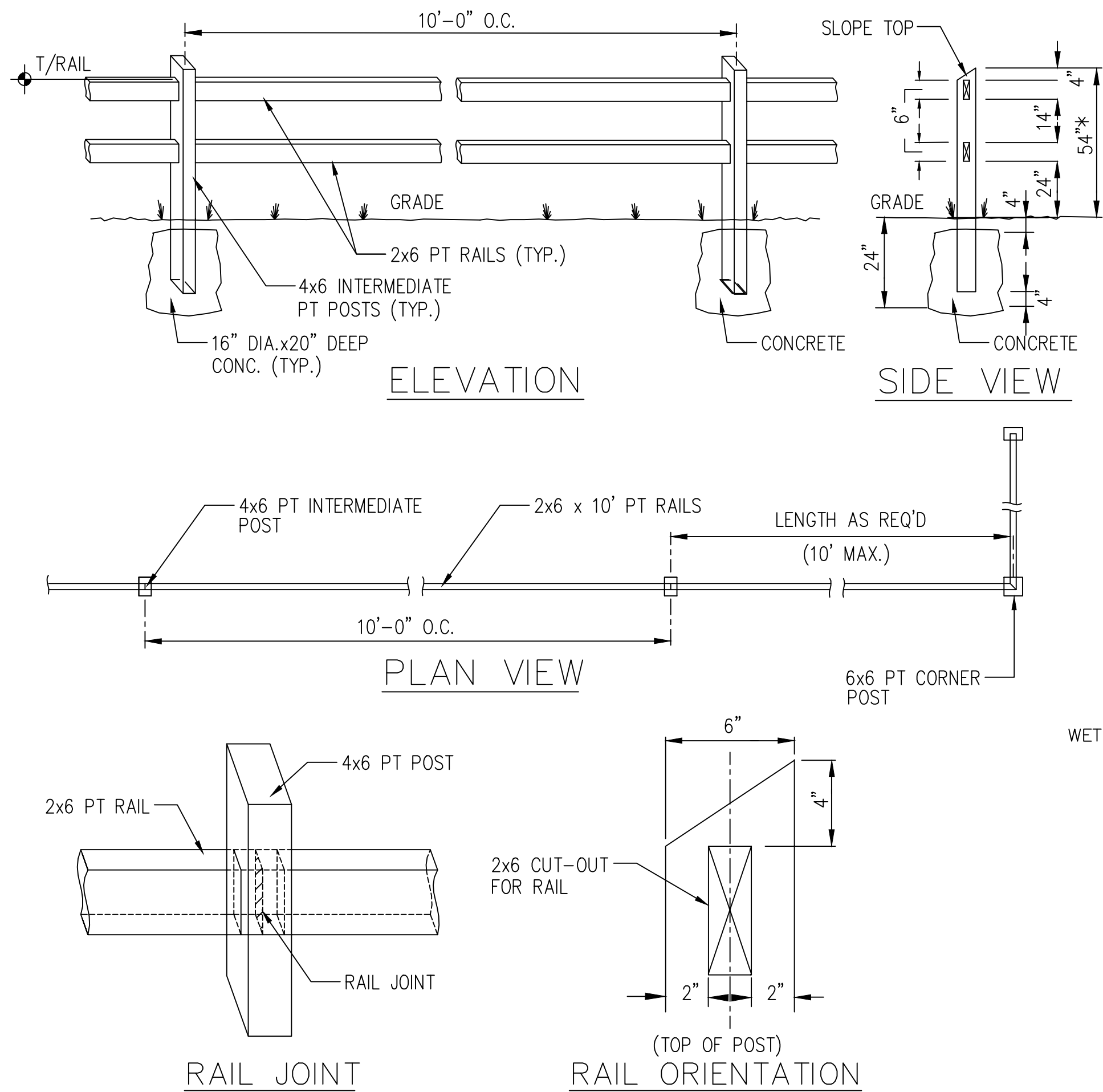
SILT FENCE APPLICATIONS

N.T.S.



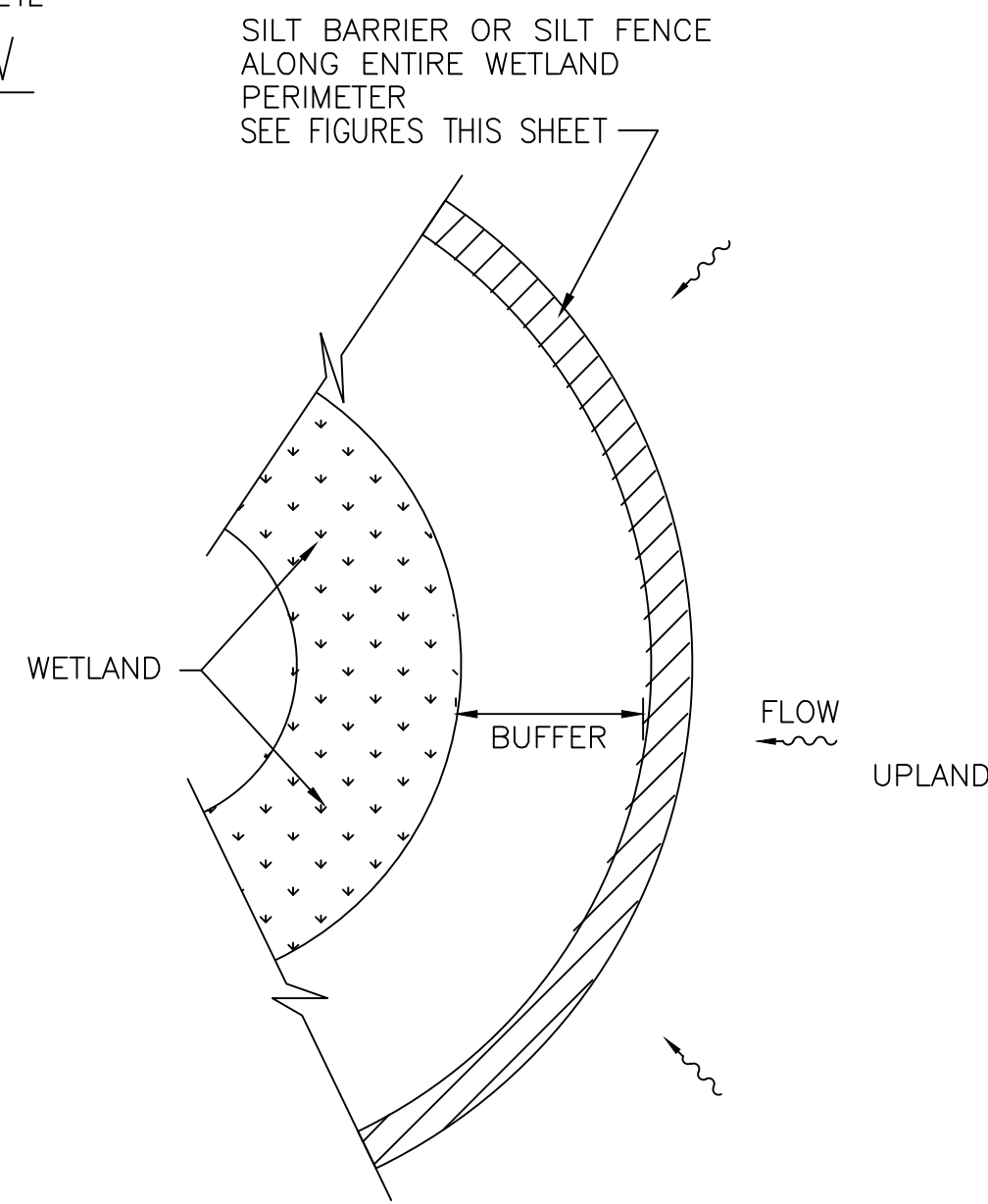
TYPICAL BALE SILT BARRIER

N.T.S.



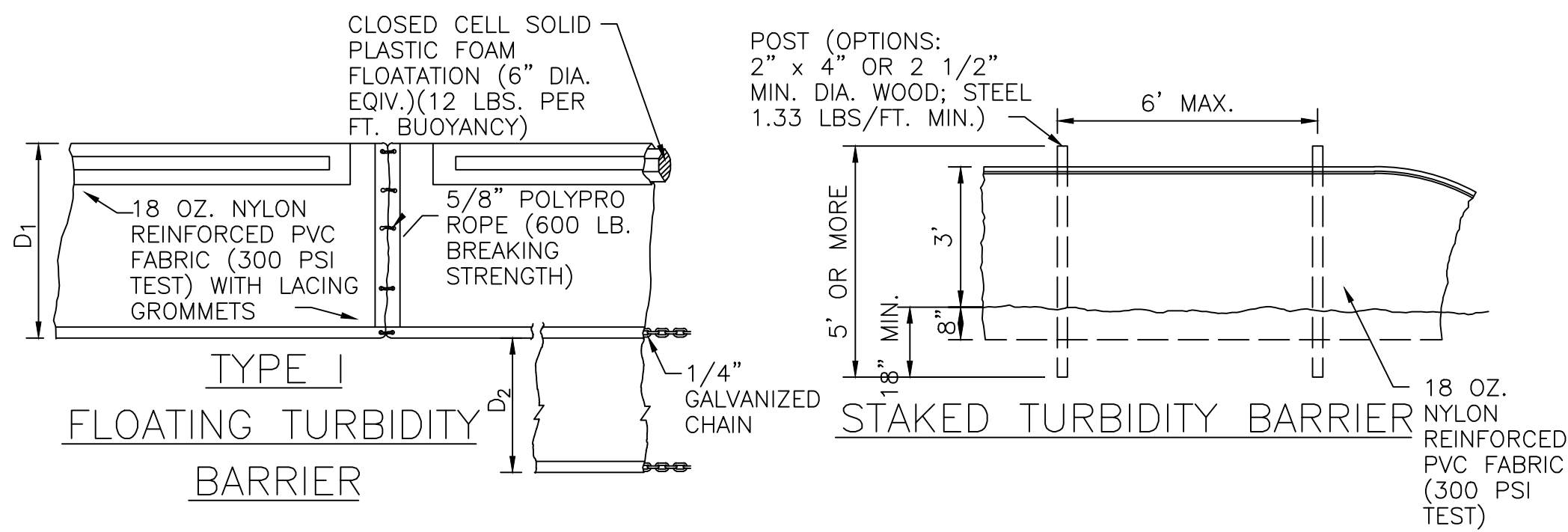
WOODEN FENCE

N.T.S.



WETLAND BUFFER

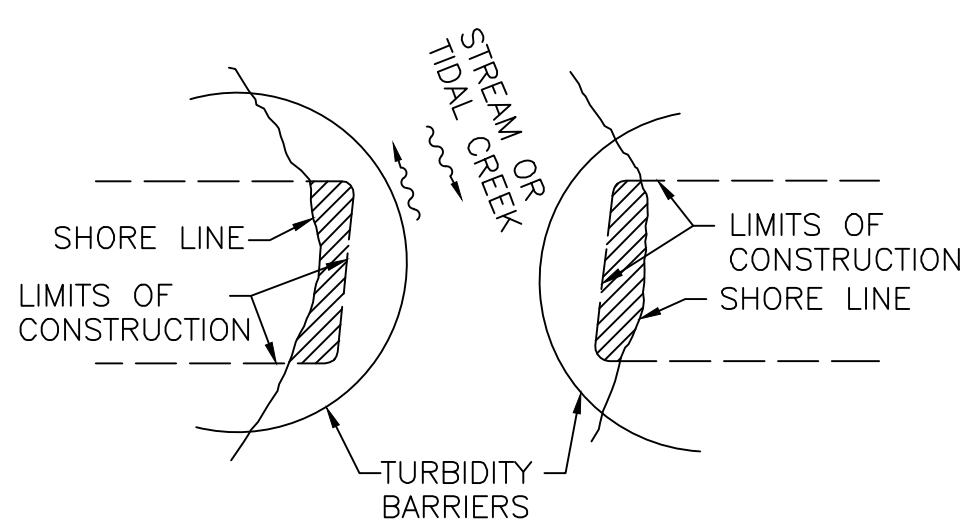
N.T.S.



D₁ = 5' STD. (SINGLE PANEL FOR DEPTH 5' OR LESS).
D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS >5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE:
COMPONENTS OF TYPE I MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE I SHALL BE AS APPROVED BY THE ENGINEER.

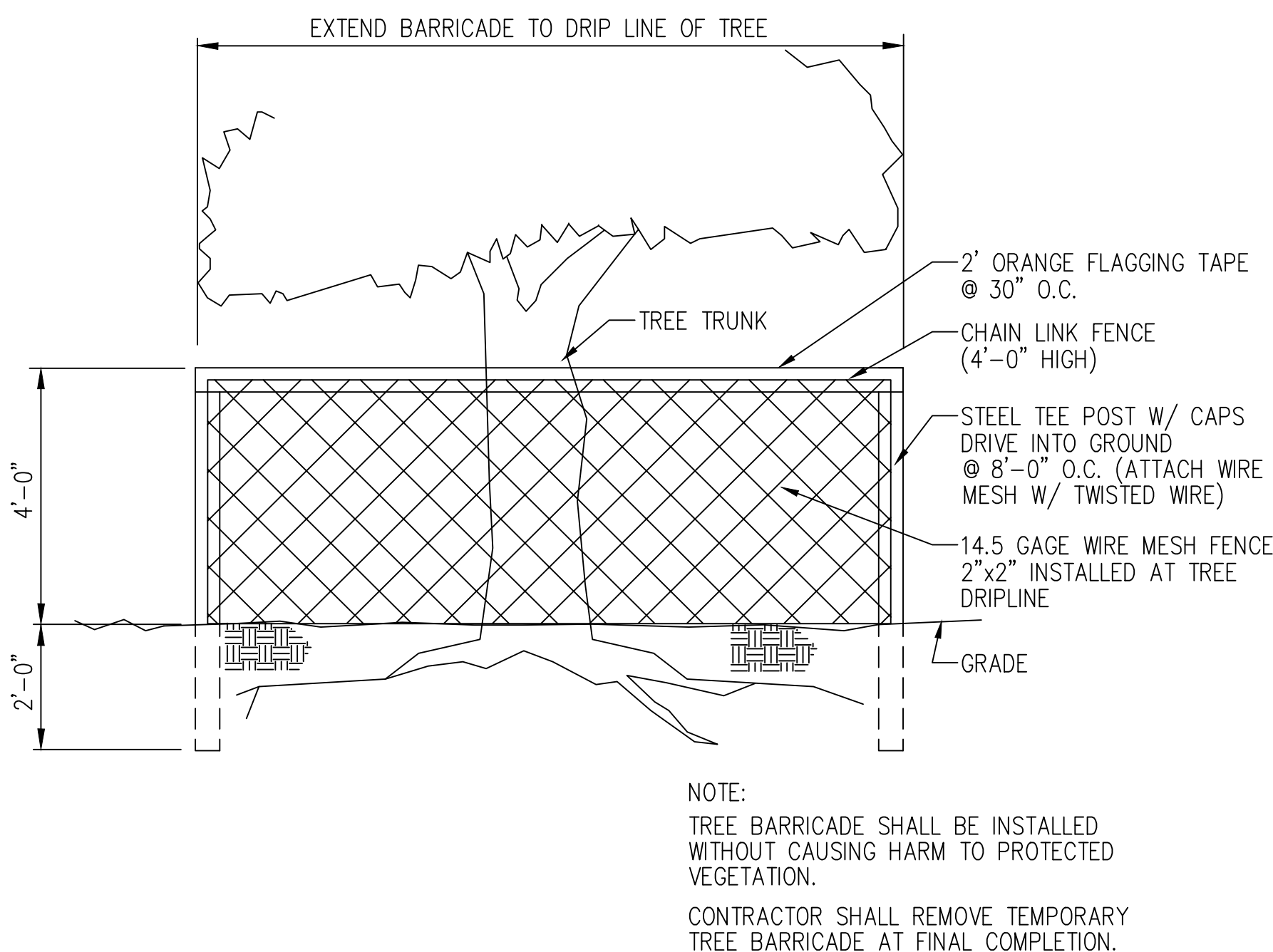
- NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON WATER VELOCITIES.
 3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.



TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

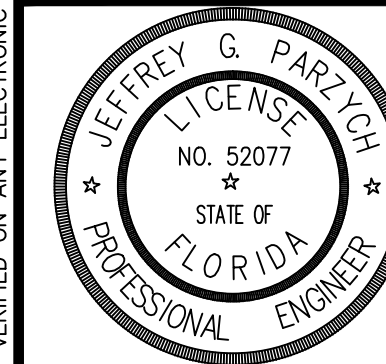
N.T.S.



TYPICAL TREE PROTECTION DETAIL

N.T.S.

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O'LENO STATE PARK

BEST MANAGEMENT PRACTICES

BOARDWALK REPLACEMENT

SHEET TITLE

PROJECT TITLE

SHEET NO.

S304



Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157
contact@bgsstructural.com

DESIGNER : JGP
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CONSULTANT CONTRACT No.: CN825
STATE PROJECT No.: 61559C