

THIS PRINT QUALITY SCALE SHOWS 6 SHADED BOXES. IF 6 BOXES ARE NOT CLEARLY DEFINED, THE ORIGINAL QUALITY AND DESIGN MAY NOT DISPLAY AS INTENDED. ALL SCALES DEPICTED ON THESE SHEETS ARE FOR 24 X 36 PRINTS. THIS PRINT IS THE PROPERTY OF APPLIED BUILDING SCIENCES AND IS NOT TO BE USED FOR CONSTRUCTION, DESIGN, OR REPRODUCED WITHOUT PRIOR CONSENT. THESE DRAWINGS MUST BE PRINTED IN COLOR.

WOOD-FRAMED BOARDWALK DESIGN

SULLIVAN'S ISLAND NATURE TRAIL

SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET



2308 COSGROVE AVENUE
NORTH CHARLESTON, SC 29405
OFFICE: (843) 724-1456

WOOD-FRAMED BOARDWALK DESIGN
SULLIVAN'S ISLAND
NATURE TRAIL
SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET DATE: 03/01/2024
REVISION: 03/28/2024

DESIGN BY: ALM/CHB
DRAWING BY: MAE
CHECKED BY: RMF
PROJECT NO.: 800.23077

COVER SHEET

SHEET
G001



1 PROJECT LOCATION MAP
SCALE: NTS

PROJECT SUMMARY:

THE PROJECT INVOLVES NEW WOOD-FRAMED BOARDWALKS CONSTRUCTED AS PART OF THE SULLIVAN'S ISLAND NATURE TRAIL. THE BOARDWALKS WILL INCLUDE RAMPS TO TIE INTO EXISTING BEACH ACCESS BOARDWALKS AT STATIONS 18 AND 18 1/2. BOARDWALKS WILL ALSO BE INSTALLED AT THE TOWN'S DISCRETION TO CROSS LOW POINTS IN THE NATURE TRAIL. FINAL LOCATIONS OF BOARDWALKS ARE TO BE DETERMINED BY THE TOWN. THE REMAINDER OF THE NATURE TRAIL IS OUTSIDE THE SCOPE OF THESE DRAWINGS. IN ADDITION TO THE WOOD-FRAMED BOARDWALKS, THESE DRAWINGS INCLUDE PLANS FOR WOOD-FRAMED BENCHES. BENCHES WILL BE INSTALLED AT LOCATIONS DETERMINED BY THE TOWN. THE DRAWINGS SHOWN HEREIN PREPARED BY APPLIED BUILDING SCIENCES, INC. (ABS) ARE THE STRUCTURAL PLANS.

GENERAL NOTES:

- DESIGN ERRORS, INCONSISTENCIES, AND OMISSIONS DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO THE ARCHITECT/ENGINEER.
- THE CONTRACTOR IS NOTIFIED THAT INCIDENTAL WORK NOT SHOWN IN THE DRAWINGS SHALL BE ACCOUNTED FOR IN THE WORK.
- DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING BOARDWALK GEOMETRY, INCLUDING BOARDWALK LENGTHS.
- DIMENSIONS AND SCALES SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY.
- CONTACT THE ENGINEER/ARCHITECT FOR QUESTIONS OR CLARIFICATIONS CONCERNING THE DRAWINGS AND OTHER CONTRACT DOCUMENTS.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODES; LOCAL REQUIREMENTS AND ORDINANCES HAVING JURISDICTION OVER THIS PROPERTY; ACCEPTABLE INDUSTRY STANDARDS; AND MANUFACTURERS' PRODUCT INSTRUCTIONS.
- CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, SCHEDULING, SEQUENCING, AND COORDINATION OF THE WORK.
- "PROVIDE" = "FURNISH AND INSTALL"
- EXISTING CONDITIONS/COMPONENTS SHOWN ON THE DRAWINGS ARE NOTED AS SUCH. ALL OTHER CONDITIONS/COMPONENTS SHOWN ON THE DRAWINGS SHALL BE UNDERSTOOD TO BE NEW AND TO BE PROVIDED BY CONTRACTOR, U.N.O.
- THE PURPOSE OF THE DRAWINGS AND SPECIFICATIONS IS TO CONVEY A DESIGN INTENT. DETAILS HAVE BEEN PROVIDED FOR THE MOST COMMON CONDITIONS. THE CONTRACTOR IS NOTIFIED THAT DETAILS FOR EVERY POSSIBLE CONDITION THAT MAY BE ENCOUNTERED ARE NOT PROVIDED. IF THE CONTRACTOR ENCOUNTERS CONDITIONS FOR WHICH THE DESIGN INTENT IS NOT REASONABLY CLEAR, THE CONTRACTOR SHALL ASK THE ARCHITECT/ENGINEER FOR CLARIFICATION IN WRITING.
- ADDITIONAL NOTES ARE PROVIDED IN THE STRUCTURAL SHEETS.

ABBREVIATIONS:

| | | | |
|-----------|---|--------|--|
| #-PLY | = NUMBER OF PLYS | PLF | = POUNDS PER LINEAR FOOT |
| (#) | = QUANTITY | PSF | = POUNDS PER SQUARE FOOT |
| 1X | = 1" NOMINAL LUMBER | PSI | = POUNDS PER SQUARE INCH |
| 2X | = 2" NOMINAL LUMBER | PSL | = PARALLEL STRAND LUMBER |
| ACI | = AMERICAN CONCRETE INSTITUTE | PT | = PRESERVATIVE TREATED |
| A-DWGS | = ARCHITECTURAL DRAWINGS | S-DWGS | = STRUCTURAL ENGINEERING DRAWINGS |
| ADA | = AMERICANS WITH DISABILITIES ACT | SAM | = SELF-ADHESIVE MEMBRANE |
| AFF | = ABOVE FINISHED FLOOR | SIM | = SIMILAR |
| AHJ | = AUTHORITY HAVING JURISDICTION | SF | = SQUARE FOOT/FEET |
| AISC | = AMERICAN INSTITUTE OF STEEL CONSTRUCTION | SGD | = SLIDING GLASS DOOR |
| AISI | = AMERICAN IRON AND STEEL INSTITUTE | SI | = SQUARE INCHES |
| ANSI | = AMERICAN NATIONAL STANDARDS INSTITUTE | SMAW | = SHIELDED METAL ARC WELDING |
| APA | = AMERICAN PLYWOOD ASSOCIATION | SS | = STAINLESS STEEL |
| ASCE | = AMERICAN SOCIETY OF CIVIL ENGINEERS | SSMA | = STEEL STUD MANUFACTURERS ASSOCIATION |
| ASD | = ALLOWABLE STRESS DESIGN | T&G | = TONGUE AND GROOVE |
| ASTM | = AMERICAN SOCIETY FOR TESTING AND MATERIALS | TBD | = TO BE DETERMINED |
| ATC | = APPLIED TECHNOLOGY COUNCIL | TPO | = THERMOPLASTIC POLYOLEFIN |
| AWPA | = AMERICAN WOOD-PRESERVER'S ASSOCIATION | TYP | = TYPICAL |
| AWS | = AMERICAN WELDING SOCIETY | UNO | = UNLESS NOTED OTHERWISE |
| CFR | = CODE OF FEDERAL REGULATIONS | VIF | = VERIFY IN FIELD |
| CFS | = COLD-FORMED STEEL | WFT | = WET FILM THICKNESS |
| CIP | = CAST-IN-PLACE | WOOD | = WINDOW OPENING CONTROL DEVICE |
| CMU | = CONCRETE MASONRY UNIT | WRB | = WEATHER RESISTIVE BARRIER |
| CPSC | = CONSUMER PRODUCT SAFETY COMMISSION | ZMAX | = SIMPSON COATING |
| DBO | = DESIGNED BY OTHERS | ZRC | = ZINC RICH COATING |
| DFT | = DRY FILM THICKNESS | | |
| DIA | = DIAMETER | | |
| DP | = DESIGN PRESSURE | | |
| (E) | = EXISTING | | |
| EA | = EACH | | |
| EJ | = EXPANSION JOINT | | |
| EOR | = ENGINEER OF RECORD | | |
| EPA | = ENVIRONMENTAL PROTECTION AGENCY | | |
| EQ | = EQUAL | | |
| ESJ | = ENGINEERED SEALANT JOINT | | |
| ESR | = EVALUATION SERVICE REPORT | | |
| FA | = FLUID-APPLIED | | |
| FA-RMS | = FLUID-APPLIED ROOF MEMBRANE SYSTEM | | |
| FA-WRAB | = FLUID-APPLIED WEATHER RESISTIVE AIR BARRIER | | |
| FLR | = FLOOR | | |
| FRP | = FIBER REINFORCED POLYMER | | |
| FT | = FOOT OR FEET | | |
| GA | = GAUGE | | |
| GWB | = GYPSUM WALL BOARD | | |
| HDG | = HOT-DIPPED GALVANIZED | | |
| HRS | = HOURS | | |
| HSS | = HOLLOW STRUCTURAL STEEL | | |
| IAW | = IN ACCORDANCE WITH | | |
| IBC | = INTERNATIONAL BUILDING CODE | | |
| IEBC | = INTERNATIONAL EXISTING BUILDING CODE | | |
| IFC | = INTERNATIONAL FIRE CODE | | |
| IN | = INCH OR INCHES | | |
| KSI | = KIPS PER SQUARE INCH | | |
| LB OR LBS | = POUND OR POUNDS | | |
| L.B. | = LOAD BEARING | | |
| LF | = LINEAR FEET | | |
| MAX | = MAXIMUM | | |
| MIN | = MINIMUM | | |
| MPH | = MILES PER HOUR | | |
| (N) | = NEW | | |
| N/A | = NOT APPLICABLE | | |
| NIS | = NOT IN SCOPE | | |
| NFPA | = NATIONAL FIRE PROTECTION ASSOCIATION | | |
| N.L.B. | = NOT LOAD BEARING | | |
| NO. | = NUMBER | | |
| NTS | = NOT TO SCALE | | |
| OC | = ON CENTER | | |
| OSB | = ORIENTED STRAND BOARD | | |
| OZ | = OUNCES | | |
| PCA | = PORTLAND CEMENT ASSOCIATION | | |
| PCI | = POUNDS PER CUBIC INCH | | |
| PG | = PERFORMANCE GRADE | | |

OWNER:

TOWN OF SULLIVAN'S ISLAND
PO BOX 427
SULLIVAN'S ISLAND, SOUTH CAROLINA 29482

OWNER CONTACT:

ANDY BENKE, TOWN ADMINISTRATOR
PHONE: (843) 768-9480
EMAIL: ABENKE@SULLIVANSISLAND.SC.GOV

ENGINEER:

APPLIED BUILDING SCIENCES, INC.
2308 COSGROVE AVENUE
NORTH CHARLESTON, SOUTH CAROLINA 29405
(843) 724-1456

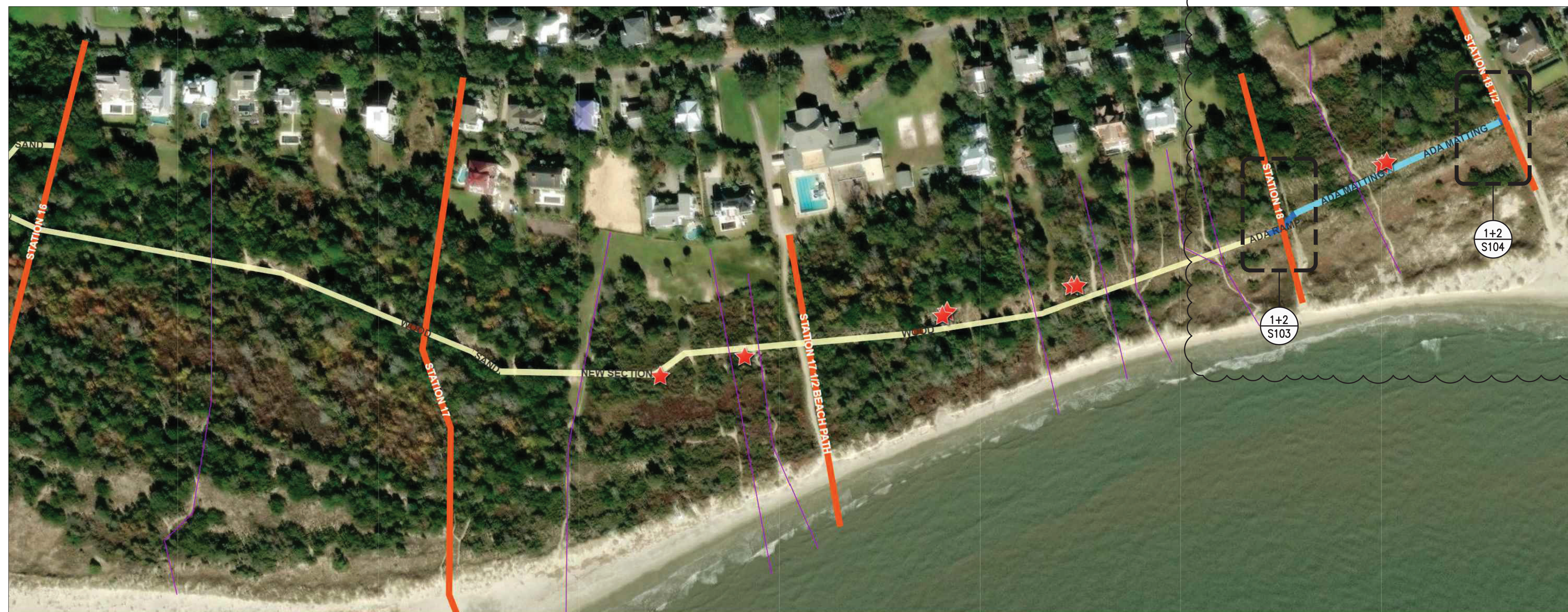
PROJECT ENGINEER:
ROBERT (BOBBY) FUNCIK, PE
BFUNCIK@APPLIEDBUILDINGSCIENCES.COM
(843) 724-1476

PROJECT INFORMATION:

JURISDICTION: TOWN OF SULLIVAN'S ISLAND
APPLICABLE CODE: 2021 SOUTH CAROLINA BUILDING CODE (2021 SCBC)

| SHEET INDEX | | | 03/01/2024 | 03/28/2024 | | | | | | | |
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1 SITE PLAN & SCOPE
SCALE: NTS

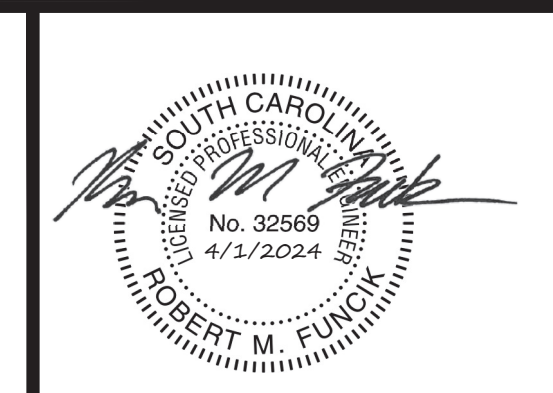
NOTES:

1. NEW RAMP AND BOARDWALKS SHALL BE ACCESSIBLE IN ACCORDANCE WITH ICC A117.1 - 2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
2. SITE PLAN PROVIDED BY THE TOWN OF SULLIVAN'S ISLAND. THE SITE PLAN DOES NOT CONSTITUTE A SURVEY AND IS ONLY PROVIDED TO CONCEPTUALLY SHOW THE LOCATIONS OF BOARDWALKS AND BENCHES. THE TOWN OF SULLIVAN'S ISLAND IS RESPONSIBLE FOR THE FINAL LOCATIONS OF BOARDWALKS AND BENCHES AND FOR VERIFYING ALL DHEC OCRM CRITICAL AREA PERMITTING IF APPLICABLE.

SCOPE KEY

- NEW BOARDWALK (SEE S101). FINAL LOCATION TBD BY OWNER
- NEW NATURE TRAIL. DESIGN BY OTHERS
- EXISTING BEACH ACCESS
- ★ NEW BENCH (SEE S403).
- ACCESSIBLE RAMP TO TIE INTO EXISTING BEACH ACCESS BOARDWALK (SEE S101-S104)
- ADA MATTING. DESIGN BY OTHERS
- PRIVATE BEACH ACCESS PATH

NOTE:
ALL LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS AND LENGTHS TBD BY OWNER.



APPLIED BUILDING SCIENCES

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WOOD-FRAMED BOARDWALK DESIGN
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SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET DATE: 03/01/2024
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SITE PLAN & SCOPE

SHEET
G002

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NOTES AND SPECIFICATIONS

A. GENERAL

- CONSTRUCTION SHALL CONFORM TO THE APPLICABLE BUILDING CODE, INDUSTRY STANDARDS, MANUFACTURER INSTRUCTIONS, AND REGULATIONS OF AGENCIES HAVING JURISDICTION.
- CONTRACTOR TO VERIFY CONDITIONS AND DIMENSIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY EXISTING CONDITIONS WHICH DO NOT COMPLY WITH THESE PLANS.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT BID ANY PART OF THE PROJECT BASED ON AN ASSUMPTION OR SPECULATION OF THE DESIGN INTENT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LENGTHS OF NEW BOARDWALKS AND BOARDWALKS TO BE REMOVED AND REPLACED.
- CONTRACTOR IS RESPONSIBLE FOR ADEQUACY OF BRACING, SHORING, TEMPORARY SUPPORTS, ETC., DURING CONSTRUCTION.
- USACOE AND SCDHEC-OCRM PERMITS, IF APPLICABLE, SHALL BE OBTAINED BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL OTHER APPLICABLE PERMITS REQUIRED FOR DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THE TYPES, LOCATIONS, SIZES, AND ELEVATIONS OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO AVOID ANY CONTACT WITH ABOVE- AND BELOW-GROUND UTILITIES.
- ALL GRASSED AND LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO MATCH EXISTING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE WRITTEN SUBMITTALS FOR APPROVAL TO PROVE EQUIVALENCY FOR PROPOSED SUBSTITUTIONS TO SPECIFIED MATERIALS.
- CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEMOLISHED MATERIALS IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
- AT DUNES, WALKWAY SHALL HAVE 2' VERTICAL CLEARANCE BETWEEN THE SURFACE OF THE DUNE AND THE TOP OF THE WALKWAY.

B. DESIGN CRITERIA

APPLICABLE BUILDING CODE:
2021 SOUTH CAROLINA BUILDING CODE (SCBC)

REFERENCED STANDARDS AND SPECIFICATIONS:

AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1 "USE CATEGORIES SYSTEM" (AWPA U1);

AWPA STANDARD M4 "STANDARD FOR THE CARE OF PRESERVATIVE-TREATED WOOD PRODUCTS" (AWPA M4); AND

SOUTHERN FOREST PRODUCTS ASSOCIATION "MARINE CONSTRUCTION GUIDE, 2014";

STRUCTURE RISK CATEGORY: CATEGORY I (ASCE 7-16)

GRAVITY LOADS:

- FLOOR LIVE = 100 PSF
- FLOOR DEAD = 15 PSF
- GROUND SNOW (P_g) = 10 PSF

WIND LOADS (ASCE 7-16):

- RISK CATEGORY I, $V = 133$ MPH, EXPOSURE D, OTHER STRUCTURE, OPEN
- $q_z = 40$ psf (ULTIMATE), $q_s = 24$ psf (ASD)

HANDRAILS AND GUARDRAILS SHALL BE CAPABLE OF WITHSTANDING A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT (PLF) OR A CONCENTRATED LOAD OF 200 POUNDS IN ANY DIRECTION, WHICHEVER IS GREATER.

C. WOOD/TIMBER FRAMING

- UNLESS NOTED OTHERWISE, ALL WOOD FRAMING SHALL BE INSTALLED IN ACCORDANCE WITH THE SCBC. ALL FRAMING CONNECTIONS SHALL MEET THE FASTENING REQUIREMENTS AS SHOWN IN THESE DRAWINGS.
- ALL DIMENSIONAL LUMBER SHALL BE PRESERVATIVE TREATED (PT) SOUTHERN PINE, SPIB GRADE NO. 2 OR BETTER UNLESS OTHERWISE NOTED IN THE DRAWINGS. 6" DIAMETER PILES SHALL BE SPIB GRADE NO. 2 OR BETTER.
- PRESERVATIVE TREATMENT (PT) FOR ALL DIMENSIONAL LUMBER SHALL MEET AWPA U1 USE CATEGORY UC5C (MARINE USE SOUTHERN WATERS) OR BETTER, UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
- TREATMENT SHALL BE CHROMATED COPPER ARSENATE (CCA) FOR PILES, SPLIT PILE CAPS, AND STRINGERS.
- ALL NEW LUMBER SHALL BE AIR OR KILN-DRIED AND HAVE A MAXIMUM MOISTURE CONTENT OF 19% PRIOR TO INSTALLATION, UNLESS OTHERWISE NOTED.
- ALL ENDS (FACTORY AND FIELD CUT) AND HOLES OF TREATED LUMBER, HOLES, AND INJURIES OF TIMBERS SHALL BE FIELD TREATED WITH A LIBERAL APPLICATION OF COPPER NAPHTHENATE WITH 2% METAL SOLUTION UNTIL VISIBLE EVIDENCE OF FURTHER PENETRATION INTO THE WOOD HAS CEASED, IN ACCORDANCE WITH AWPA M4.

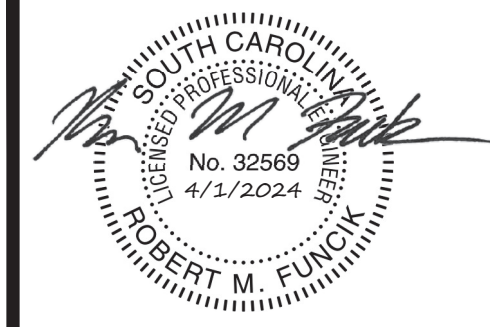
D. FASTENERS AND HARDWARE

- INSTALL METAL HARDWARE AND CONNECTORS IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- SEE TABLE 2 FOR BOLTS.
- SEE TABLE 3 FOR CONNECTOR SCHEDULE.

- CUT BOLT ENDS AND DAMAGED GALVANIZED COATINGS ON STEEL HARDWARE SHALL BE PREPPED AND FIELD COATED WITH SHERWIN WILLIAMS FAST CLAD ZINC HS OR APPROVED EQUIVALENT WITH A MINIMUM PAINT THICKNESS OF 2.0 DRY MILS. SUBSTRATE SURFACES SHALL BE PREPPED IN ACCORDANCE ASTM A780A-09 STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS (ASTM A780).

E. GUARDS AND HANDRAILS

- GUARDS ARE REQUIRED IN SECTIONS WHERE THE BOARDWALK ELEVATION IS GREATER THAN 30-INCHES ABOVE GRADE WITHIN 36-INCHES HORIZONTALLY MEASURED FROM EITHER EDGE OF THE BOARDWALK. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING SECTIONS WHERE THE FINISHED BOARDWALK ELEVATION IS GREATER THAN 30-INCHES ABOVE GRADE.
- ALL RAMPS SHALL HAVE GRASPABLE HANDRAILS AND EDGE PROTECTION ON BOTH SIDES IN ACCORDANCE WITH THE SCBC.
- RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (8.3%) AND A MAXIMUM RISE OF 30" WITHOUT A LANDING.



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WOOD-FRAMED BOARDWALK DESIGN

SULLIVAN'S ISLAND
NATURE TRAIL

SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET DATE: 03/01/2024

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DESIGN BY: ALM/CHB

DRAWING BY: MAE

CHECKED BY: RMF

PROJECT NO.: 800.23077

NOTES &
SPECIFICATIONS

SHEET

S001

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TABLE 1 – DECKING

| LOCATION | MATERIAL | FASTENING METHOD | NOTES |
|---|---------------------------------------|--|--|
| (N) RAMP AT STATION 18 AND (N) BOARDWALKS ALONG NATURE TRAIL | 5/4 X 6" WEARDECK RPL HDPE DECKING | SIMPSON TYPE 316 #10 X 2-3/4" LONG DECK-DRIVE DCU COMPOSITE SCREW. TWO (2) FACE SCREWS EACH JOIST. SCREWS MAY HAVE COLOR MATCHED HEADS OR STAINLESS HEADS PER OWNER'S REQUEST. | COLOR TO BE SELECTED BY OWNER. CONTRACTOR TO PROVIDE OWNER WITH COLOR SAMPLES PRIOR TO SELECTION. INSTALL DECKING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. |
| (N) RAMP AT STATION 18.5 | SOUTHERN PINE NUMBER 1 PRIME 2X6 | SIMPSON TYPE 316 SS #10 X 3" LONG DECK-DRIVE DWP WOOD SCREWS (TRIM HEAD). TWO (2) FACE SCREWS EACH JOIST. | KILN DRIED AFTER TREATMENT TO 19% WMC OR LESS. SPACE BOARDS 3/8" APART. PRESERVATIVE TREATMENT SHALL BE NON-CCA AND SHALL MEET AWPA U1 USE CATEGORY UC4C (GROUND CONTACT, EXTREME DUTY). |
| (N) BENCHES | 5/4 X 6" WEARDECK RPL HDPE DECKING | ATTACH ALL WEARDECK BOARDS TO BENCHES WITH HIDDEN TYPE 316 SS FASTENERS AS PART OF THE WEARDECK PLUG-KIT COLOR MATCHED TO OWNER-SELECTED WEARDECK COLOR | COLOR TO BE SELECTED BY OWNER. CONTRACTOR TO PROVIDE OWNER WITH COLOR SAMPLES PRIOR TO SELECTION. INSTALL DECKING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. |

TABLE 2 – BOLTS

| MATERIAL | CORROSION PROTECTION | NOTES |
|--|---|-----------------------------------|
| ASTM A307 (60,000 PSI TENSILE STRENGTH) | HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 | Ogee WASHERS, NUTS, ETC. TO MATCH |

TABLE 3 – CONNECTORS/FASTENERS

| CONNECTOR | LABEL | FASTENERS |
|-----------|--------------------------------------|--|
| 1 | SIMPSON H2.5ASS | SIMPSON 0.131" ϕ X 1.5" LONG SSN8 NAILS |
| 2 | 7/8" THRU-BOLT ¹ | 7/8" THROUGH-BOLT WITH Ogee WASHER, LOCK WASHER, AND NUT |
| 3 | 3/4" THRU-BOLT ¹ | 3/4" THROUGH-BOLT WITH Ogee WASHER, LOCK WASHER, AND NUT |
| 4 | TYPE 316 SS 1/2" THREADED ROD | STANDARD NUT AND Ogee WASHER TYPE 316 SS |
| 5 | DECK SCREW | SIMPSON TYPE 316 SS #10 X 3" LONG DECK-DRIVE DWP WOOD SCREW (TRIM HEAD) |
| 6 | SIMPSON DTT2SS | SIMPSON 1/4" X 1-1/2" SDS TYPE 316 SS |
| 7 | SIMPSON SUR26SS/SUL26SS ² | (6) SIMPSON SSA16D NAILS IN GIRDER AND (6) SSNA10D NAILS IN JOIST |
| 8 | SIMPSON A35SS | (12) SIMPSON SSN8 SCNR RING-SHANK CONNECTOR NAILS |
| 9 | TOENAIL AT BLOCKING | (8) SIMPSON SSA10D SCNR RING-SHANK CONNECTOR NAILS |
| 10 | SDWS27300SS | 0.276 X 3 SIMPSON SDWS TIMBER SS SCREWS |
| 11 | 1/2" THRU-BOLT ¹ | 1/2" THROUGH-BOLT WITH DOCK WASHER, LOCK WASHER, AND NUT |
| 12 | SIMPSON LS50SS | (8) SIMPSON SSNA10D NAILS EACH LEG |
| 13 | SIMPSON LUC26SS | (6) #9 X 1-1/2" TYPE 316 SS SIMPSON SD CONNECTOR SCREWS (SD9112SS) INTO BEAM AND (4) #9 X 1-1/2" TYPE 316 SS SIMPSON SD CONNECTOR SCREWS (SD9112SS) INTO JOIST |

- SEE TABLE 2 FOR BOLT CORROSION PROTECTION.
- SIMPSON SUR HANGERS ARE SKEWED RIGHT AND SIMPSON SUL HANGERS ARE SKEWED LEFT.



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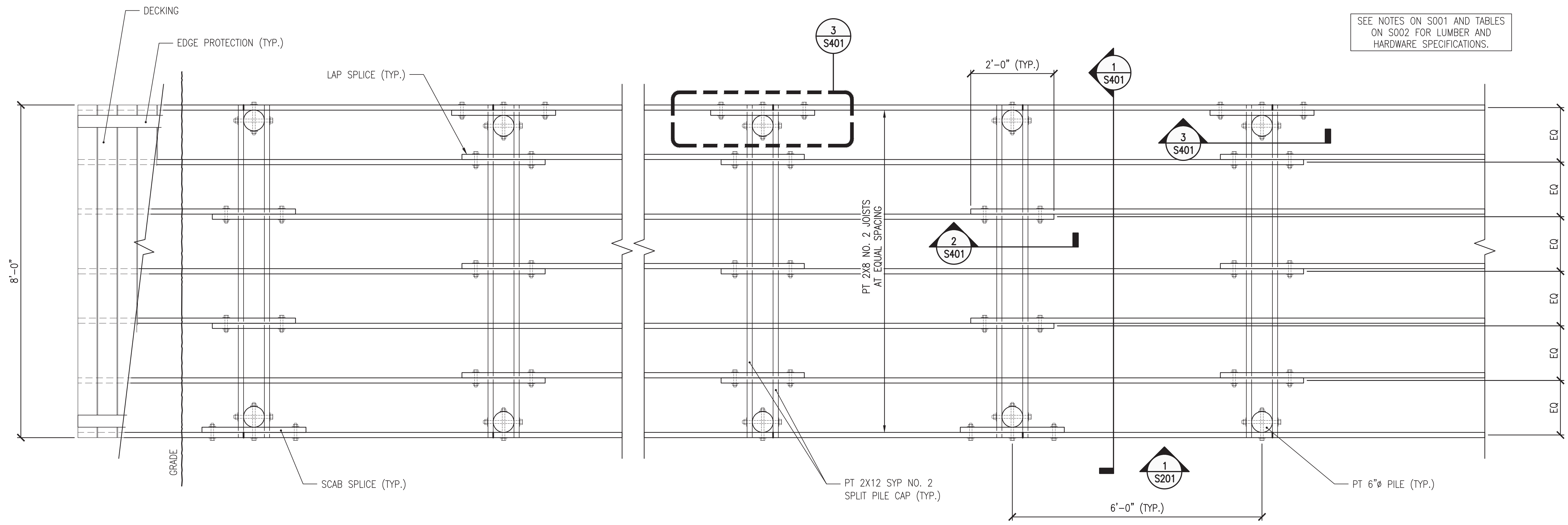
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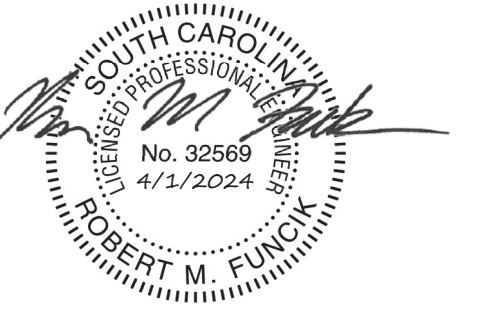
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TABLES
SHEET
S002

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1 TYPICAL BOARDWALK FRAMING PLAN
SCALE: 3/4" = 1'-0"



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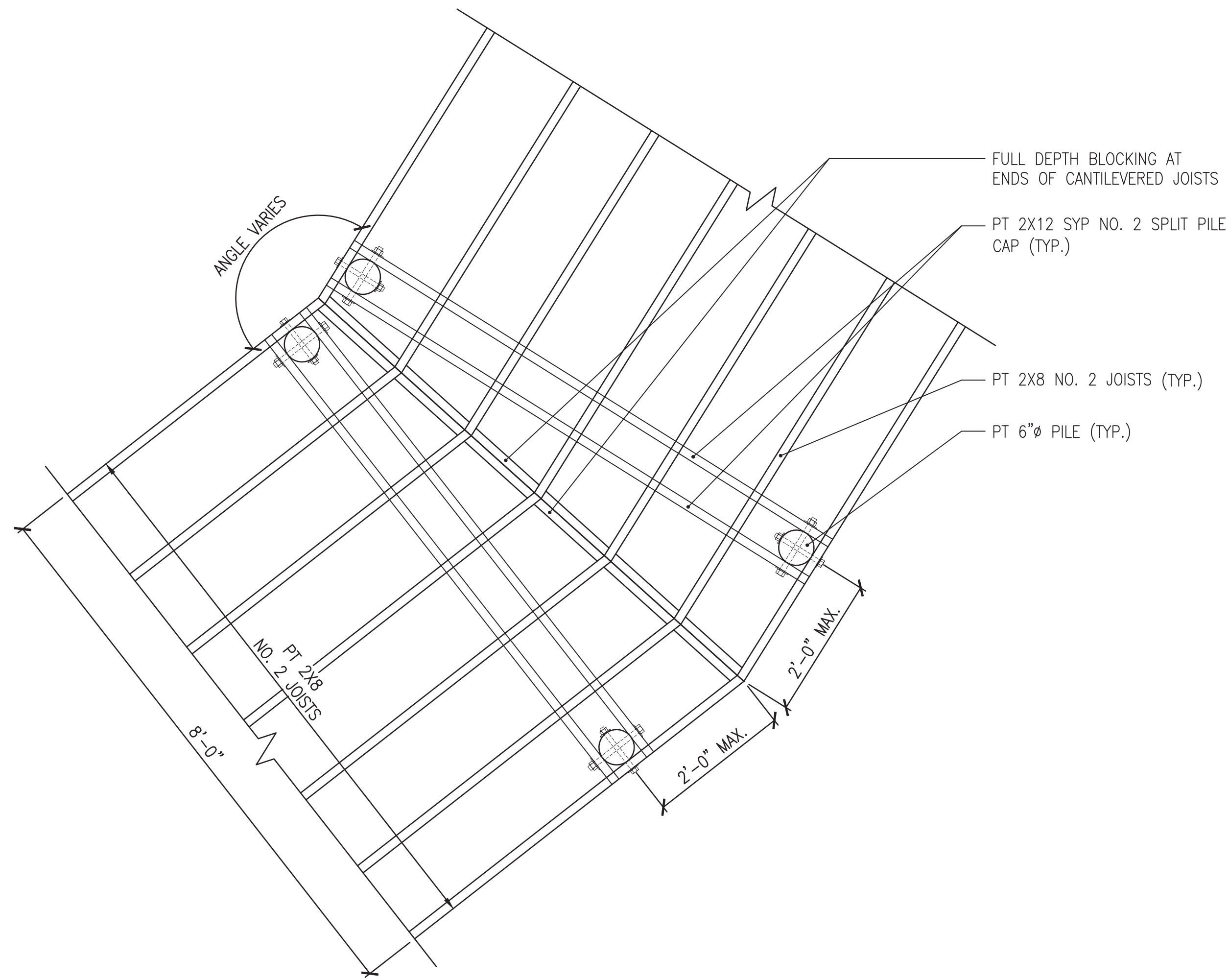
WOOD-FRAMED BOARDWALK DESIGN
SULLIVAN'S ISLAND
NATURE TRAIL
SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET DATE: 03/01/2024
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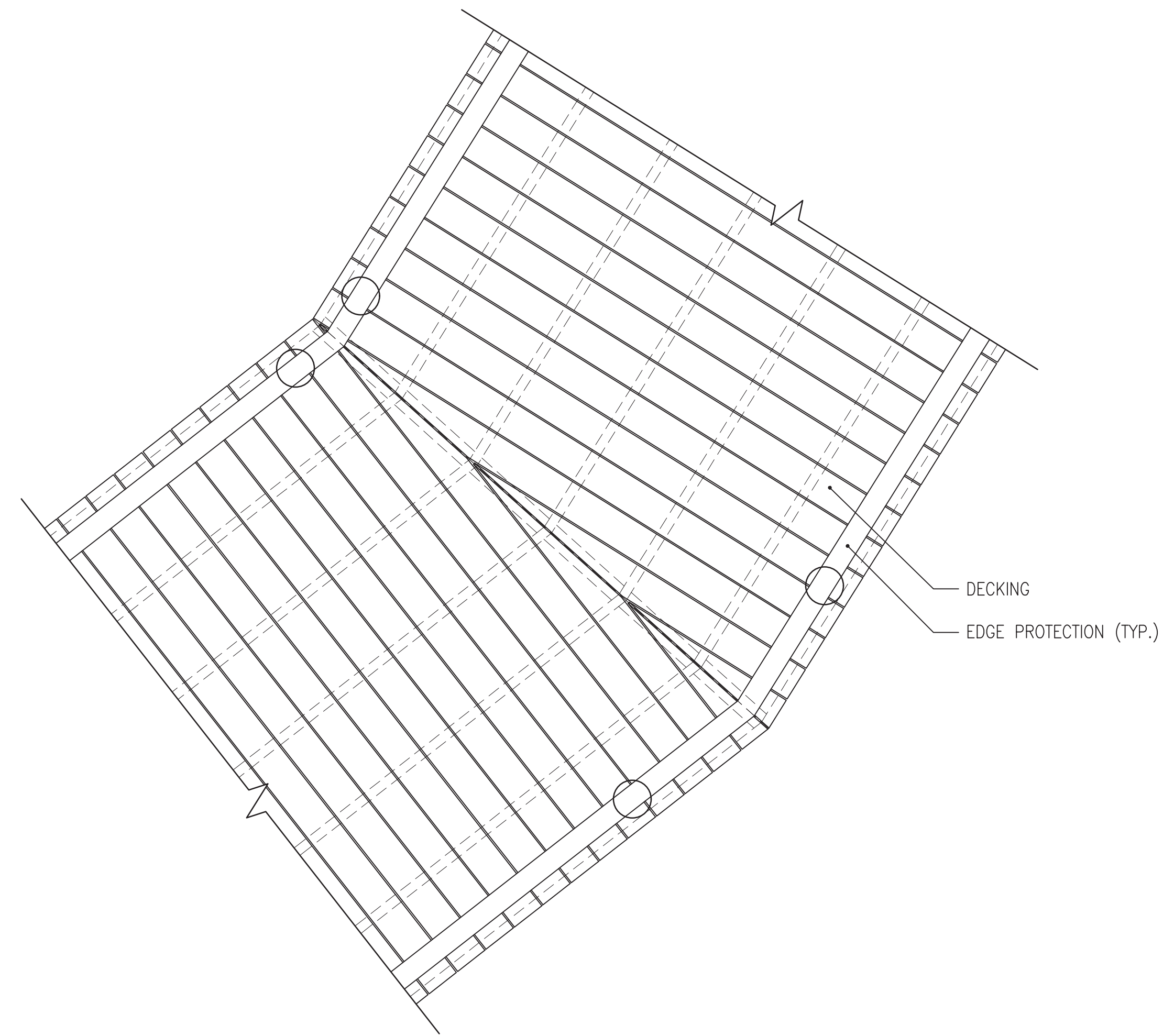
DESIGN BY: ALM/CHB
DRAWING BY: MAE
CHECKED BY: RMF
PROJECT NO.: 800.23077

PLANS
SHEET
S101

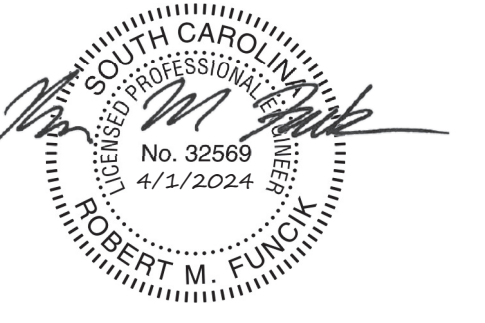
THIS PRINT QUALITY SCALE SHOWS 6 SHADED BOXES. IF 6 BOXES ARE NOT CLEARLY DEFINED, THE ORIGINAL QUALITY AND DESIGN MAY NOT DISPLAY AS INTENDED. THESE DRAWINGS MUST BE PRINTED IN COLOR. ALL SCALES DEPICTED ON THESE SHEETS ARE FOR 24 X 36 PRINTS. THIS PRINT IS THE PROPERTY OF APPLIED BUILDING SCIENCES AND IS NOT TO BE USED FOR CONSTRUCTION, DESIGN, OR REPRODUCED WITHOUT PRIOR CONSENT.



1 PROPOSED ALIGNMENT FRAMING PLAN
SCALE: 3/4" = 1'-0"



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



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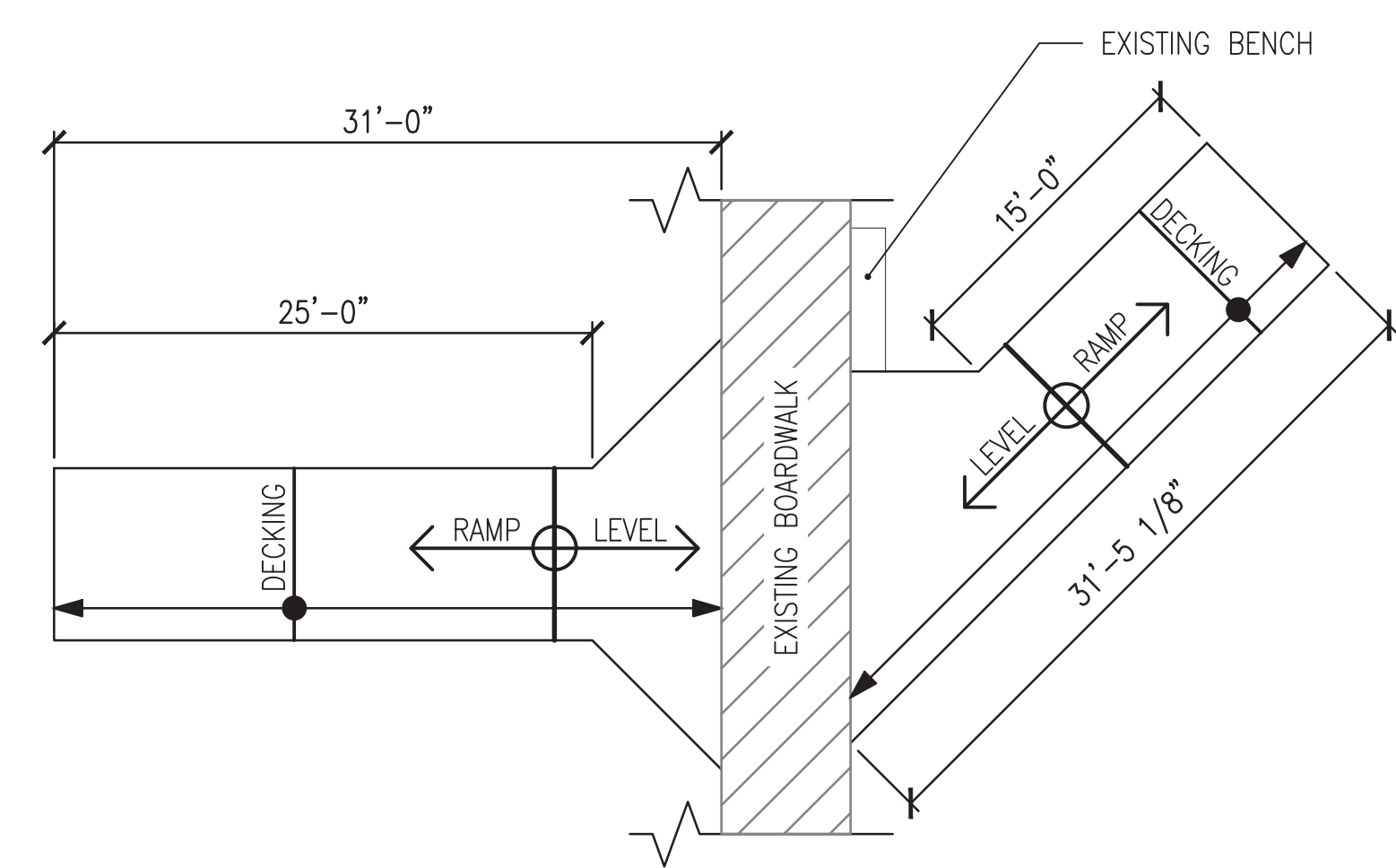
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NATURE TRAIL
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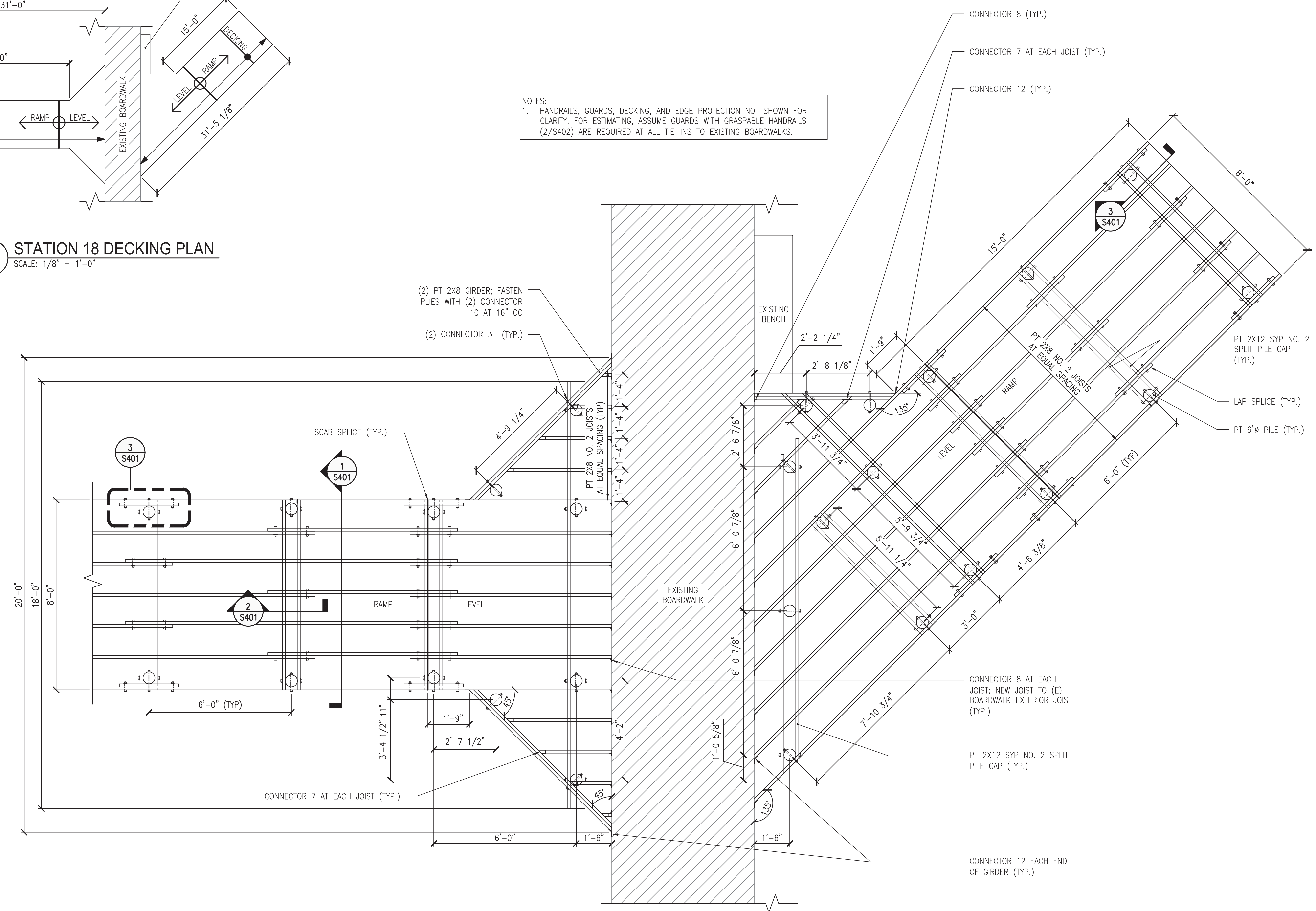
PLANS
SHEET
S102

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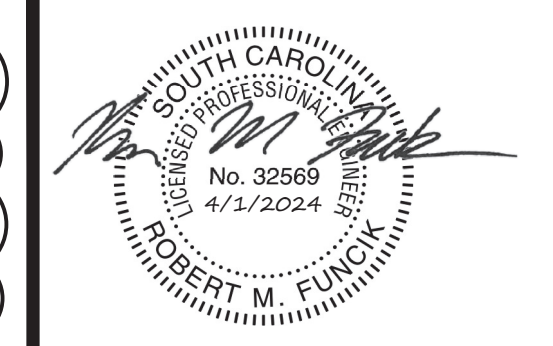


1 STATION 18 DECKING PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. HANDRAILS, GUARDS, DECKING, AND EDGE PROTECTION NOT SHOWN FOR CLARITY. FOR ESTIMATING, ASSUME GUARDS WITH GRASPABLE HANDRAILS (2/S402) ARE REQUIRED AT ALL TIE-INS TO EXISTING BOARDWALKS.



2 STATION 18 RAMP AND LANDING FRAMING PLAN
SCALE: 1/2" = 1'-0"



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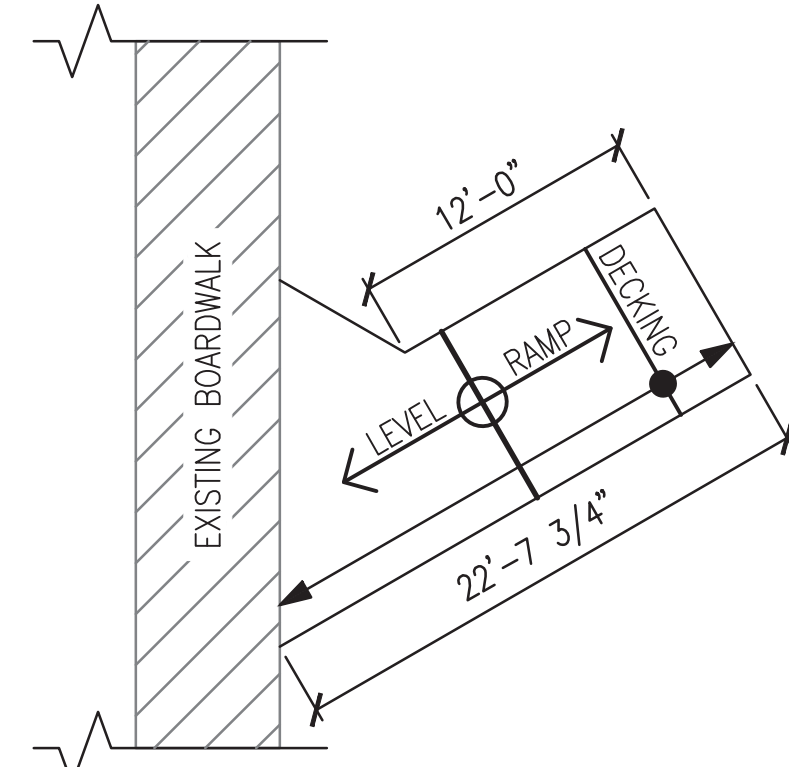
WOOD-FRAMED BOARDWALK DESIGN
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SULLIVAN'S ISLAND, SOUTH CAROLINA

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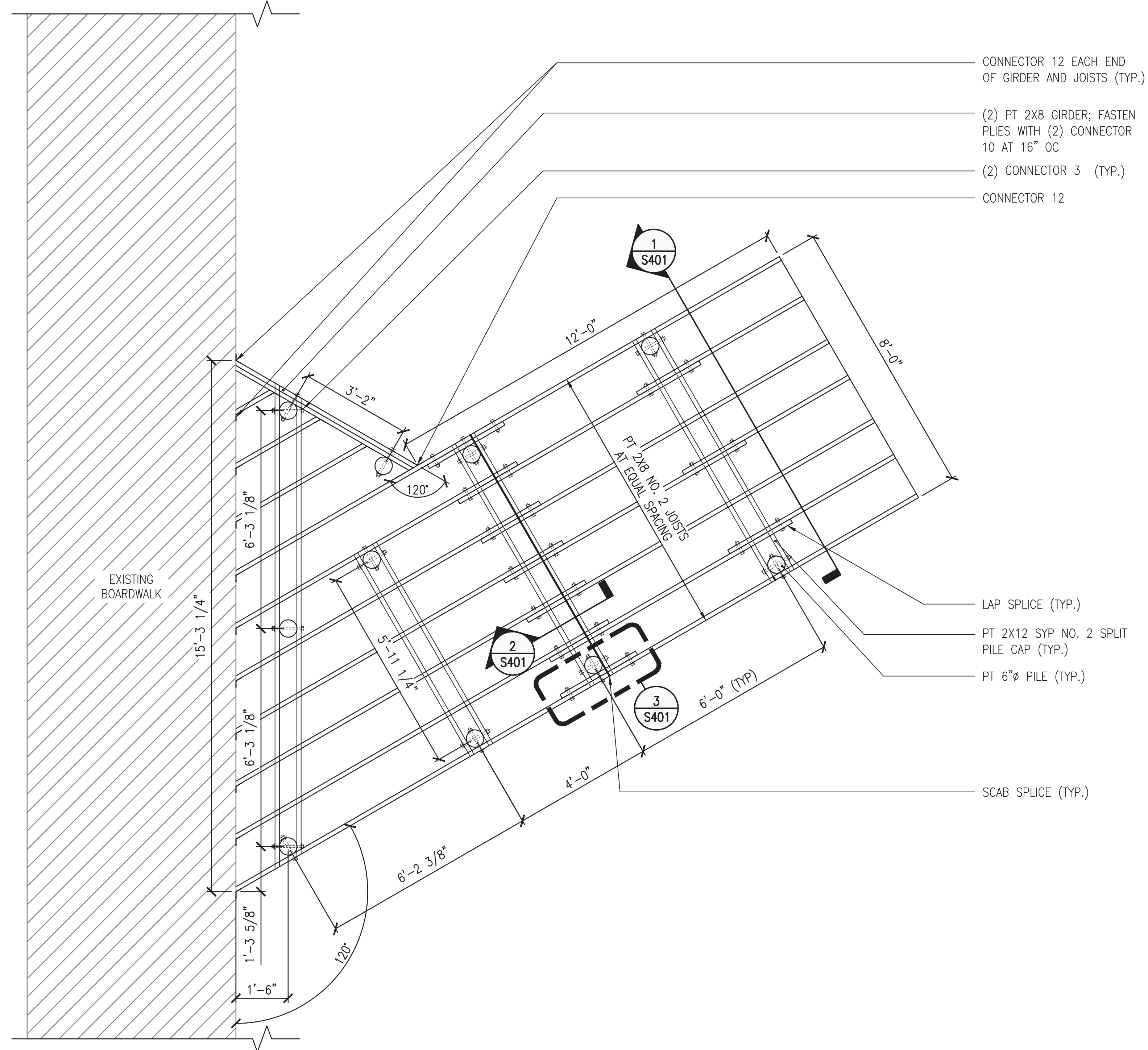
PLANS
SHEET
S103

THIS PRINT QUALITY SCALE SHOWS 6 SHADED BOXES. IF 6 BOXES ARE NOT CLEARLY DEFINED, THE ORIGINAL QUALITY AND DESIGN MAY NOT DISPLAY AS INTENDED. THESE DRAWINGS MUST BE PRINTED IN COLOR. ALL SCALES DEPICTED ON THESE SHEETS ARE FOR 24 X 36 PRINTS.

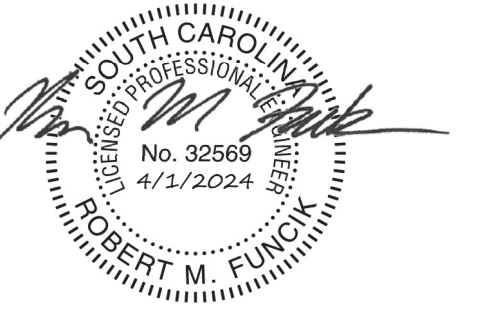


1 STATION 18-1/2 DECKING PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. HANDRAILS, GUARDS, DECKING, AND EDGE PROTECTION NOT SHOWN FOR CLARITY. FOR ESTIMATING, ASSUME GUARDS WITH GRASPABLE HANDRAILS (2/S402) ARE REQUIRED AT ALL TIE-INS TO EXISTING BOARDWALKS.



2 STATION 18-1/2 RAMP AND LANDING FRAMING PLAN
SCALE: 1/2" = 1'-0"



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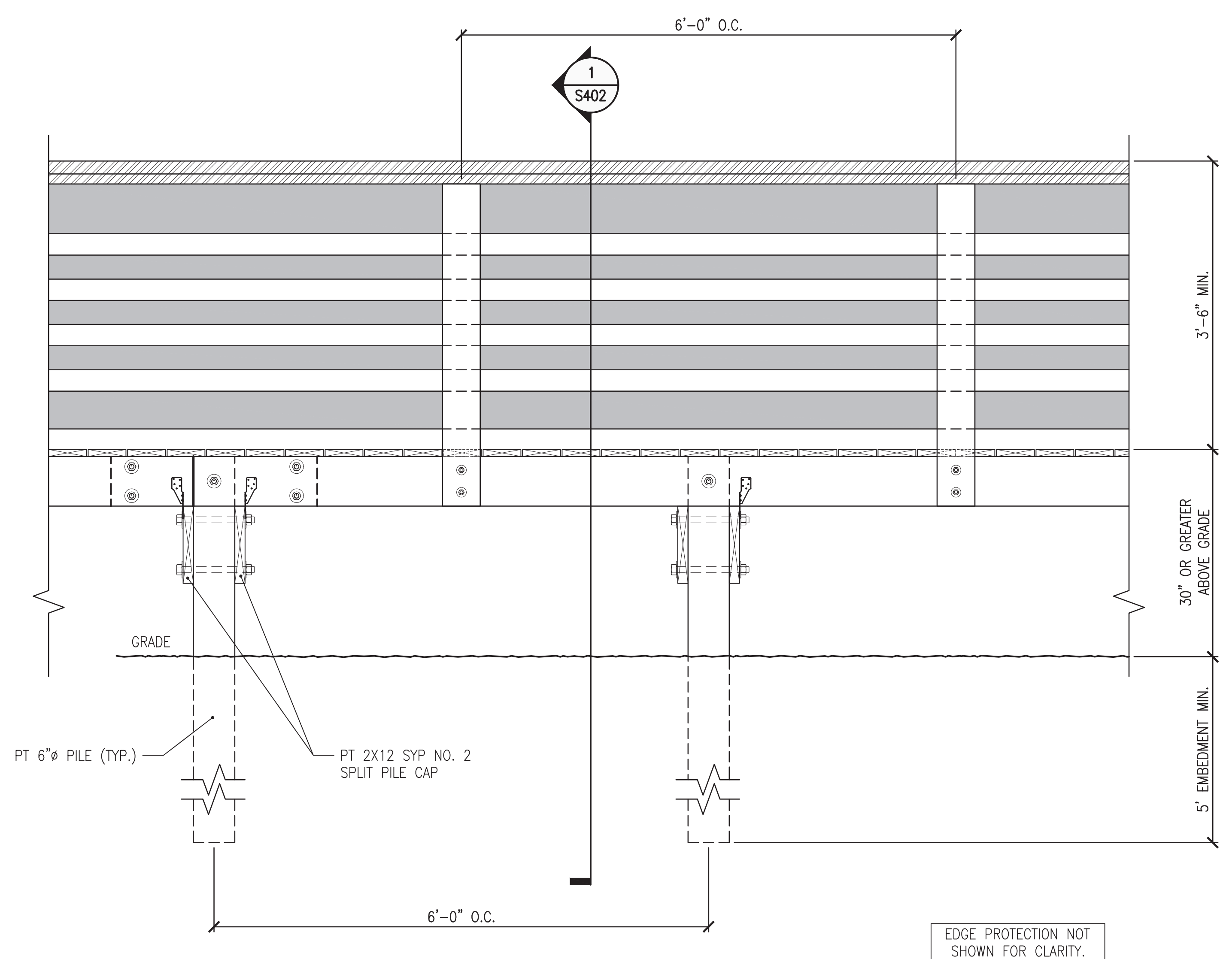
WOOD-FRAMED BOARDWALK DESIGN
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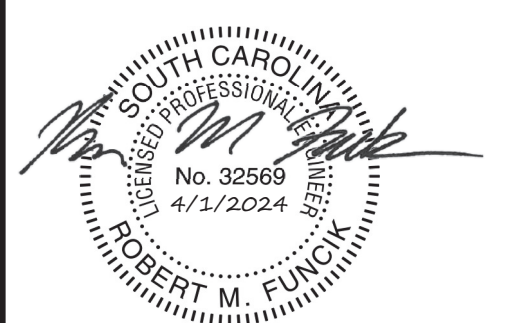
PLANS
SHEET
S104

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1 TYPICAL ELEVATION WITH GUARDS
SCALE: 1" = 1'-0"

- NOTES**
- 1) MAXIMUM RISE FOR A SINGLE RAMP SHALL BE 2'-6".
 - 2) RAMPS WITH A RISE GREATER THAN 2'-6" SHALL BE SEPARATED BY LANDINGS NOT LESS THAN 5'-0" IN LENGTH SUCH THAT EACH RUN SHALL HAVE A RISE OF NO MORE THAN 2'-6".
 - 3) ANY PORTION OF THE BOARDWALK WITH A SLOPE IN THE DIRECTION OF TRAVEL EXCEEDING 5% SHALL BE CONSIDERED A RAMP AND SHALL HAVE GRASPABLE HANDRAILS ON BOTH SIDES OF THE BOARDWALK. SEE SECTION 1014.3 OF THE 2021 SCBC FOR GRASPABILITY REQUIREMENTS.
 - 4) HANDRAILS SHALL HAVE MIN. 12" HORIZONTAL EXTENSIONS AT TOP AND BOTTOM OF ALL RAMPS.



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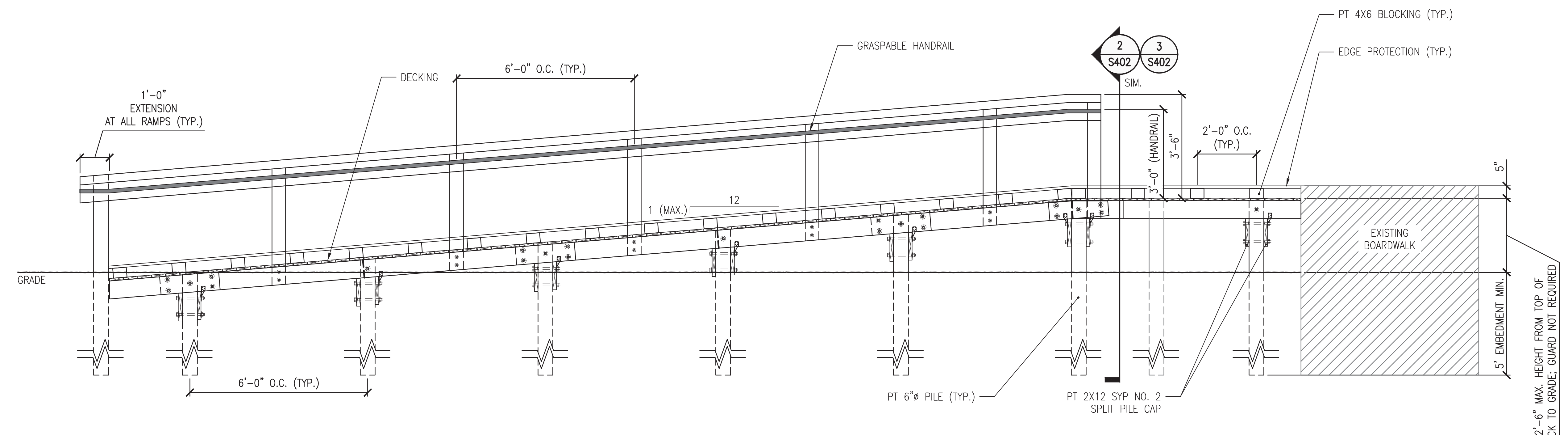
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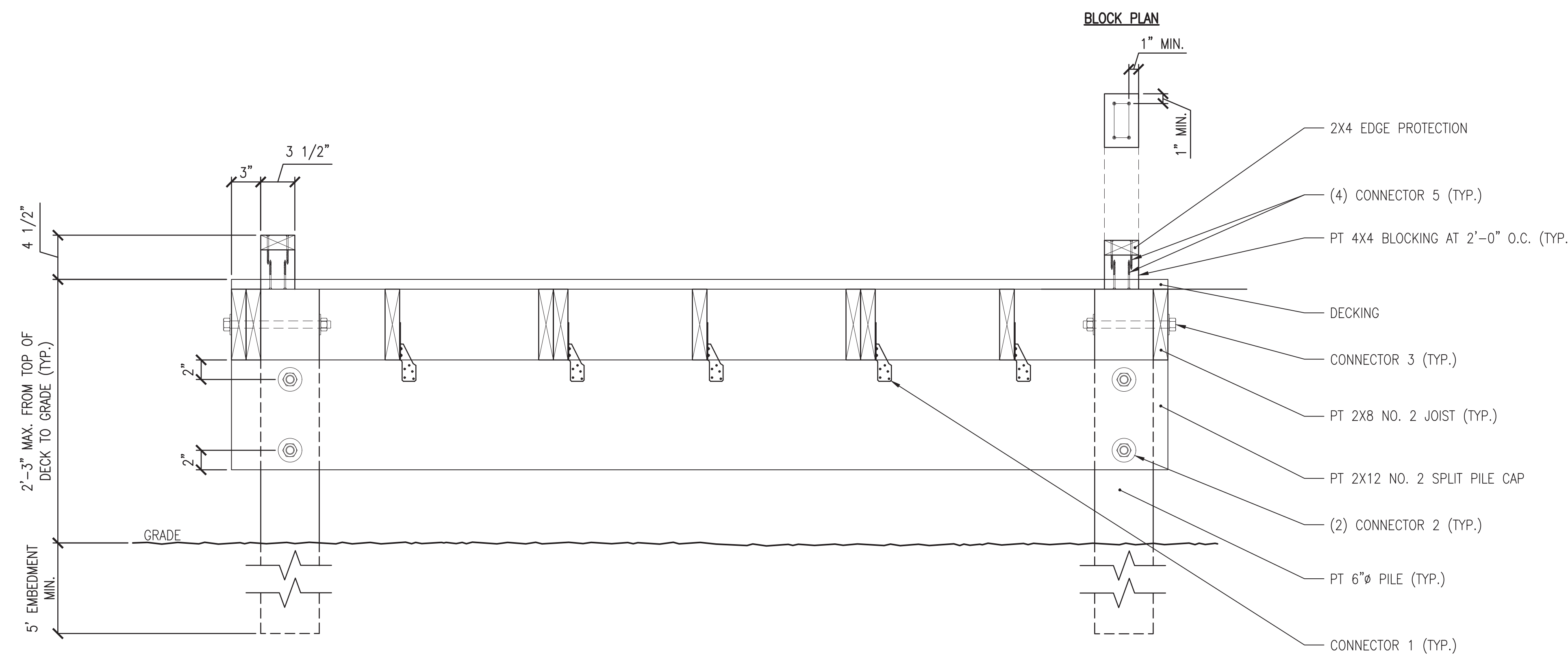
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ELEVATIONS & SECTIONS
SHEET
S201

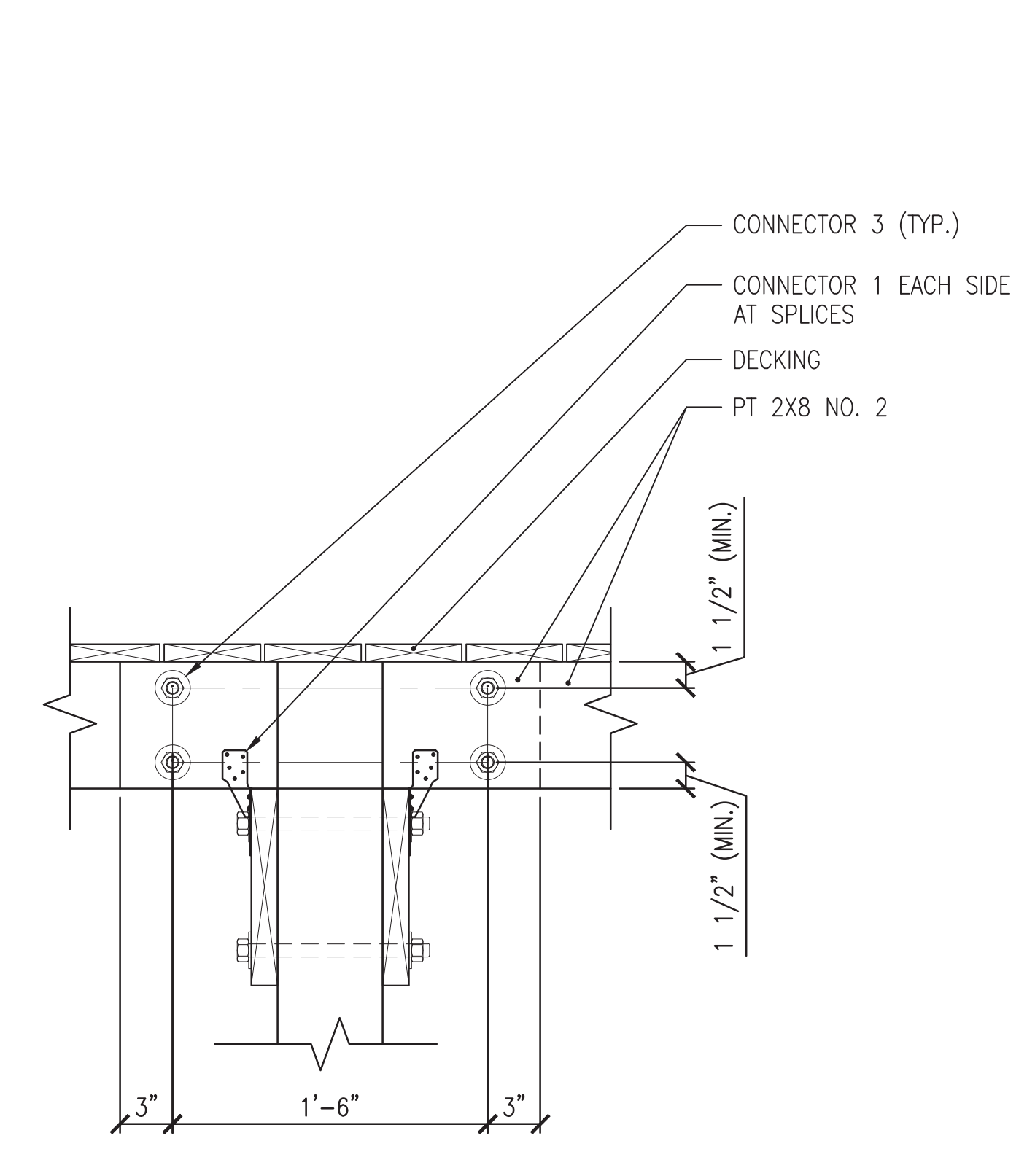


2 TYPICAL RAMP WITH HANDRAIL (BEYOND)
SCALE: 1/2" = 1'-0"

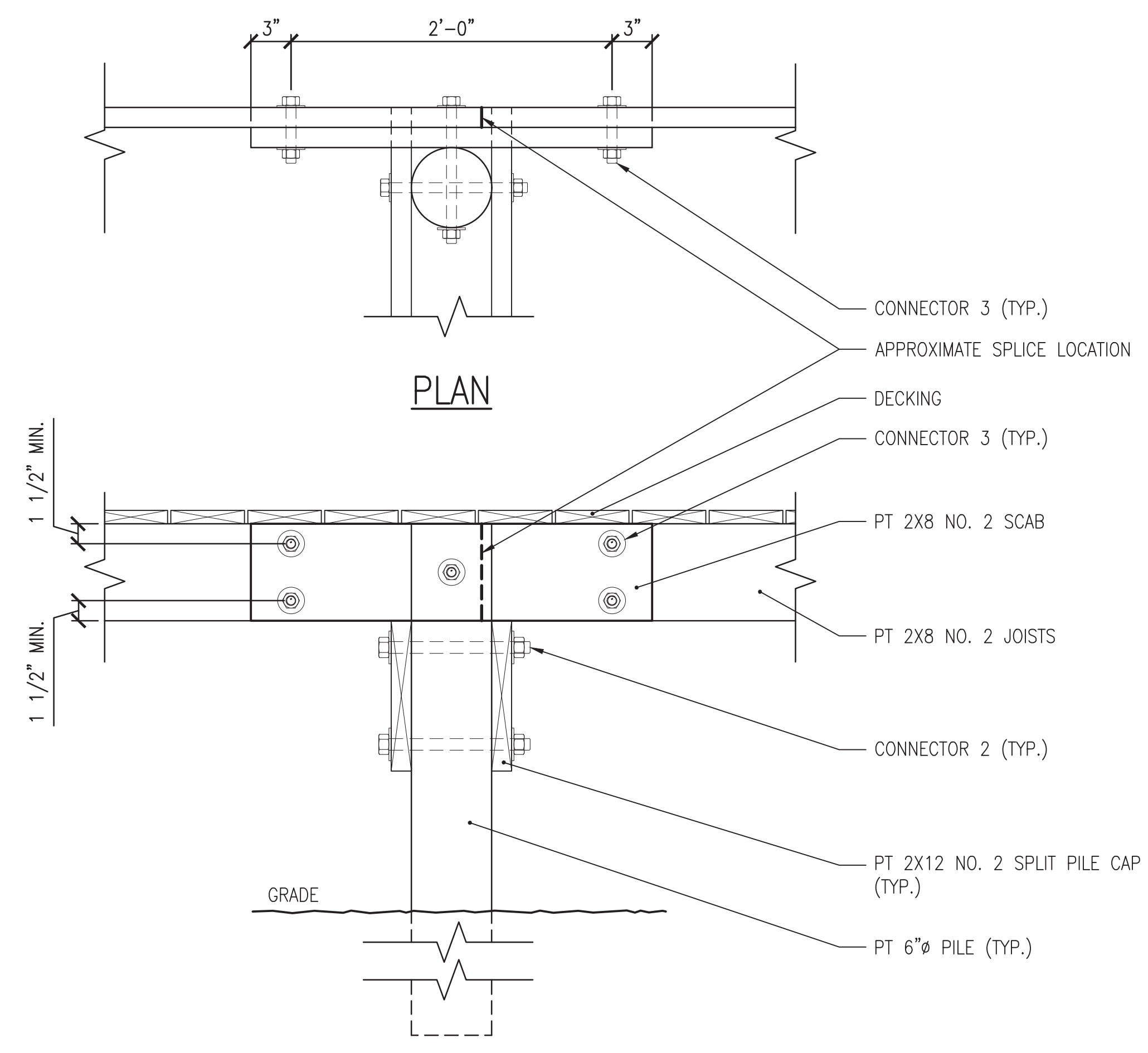
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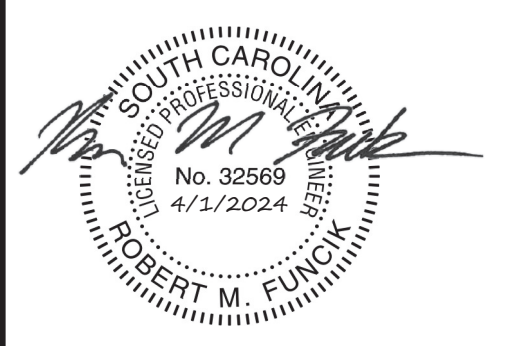
1 BOARDWALK SECTION
SCALE: 1-1/2" = 1'-0"



2 LAP SPLICE
SCALE: 1-1/2" = 1'-0"



3 SCAB SPLICE
SCALE: 1-1/2" = 1'-0"



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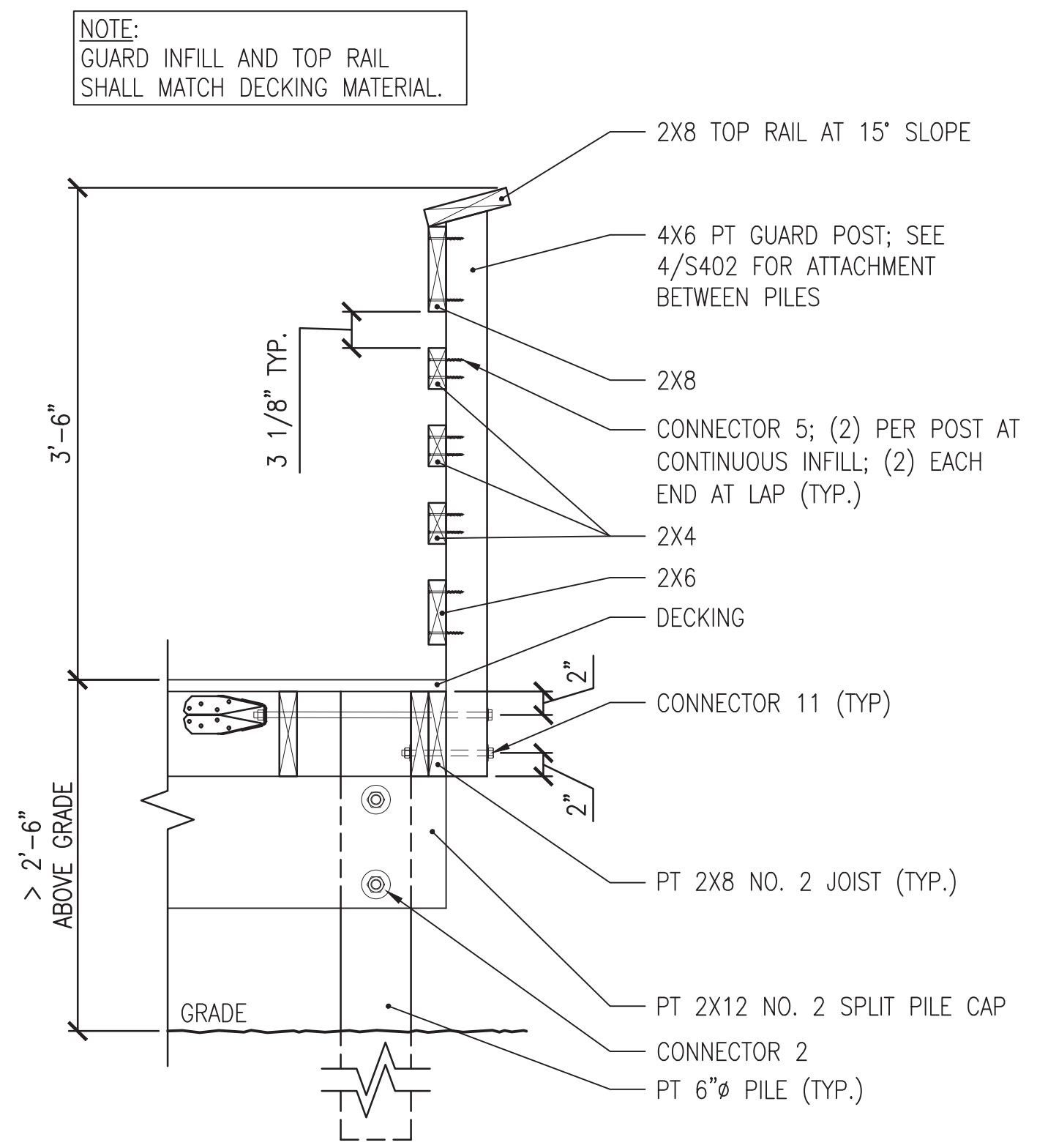
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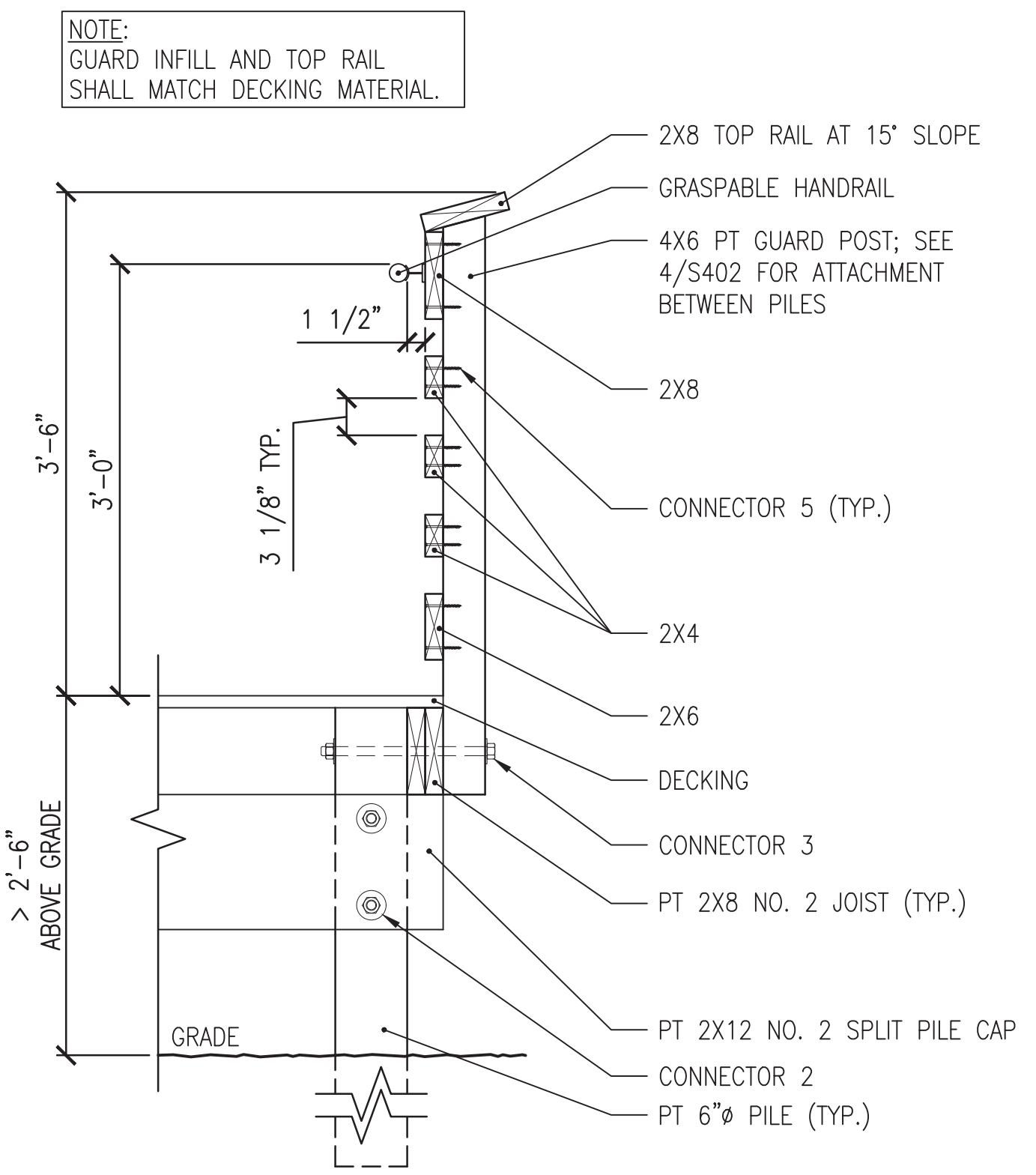
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DETAILS
 SHEET
S401

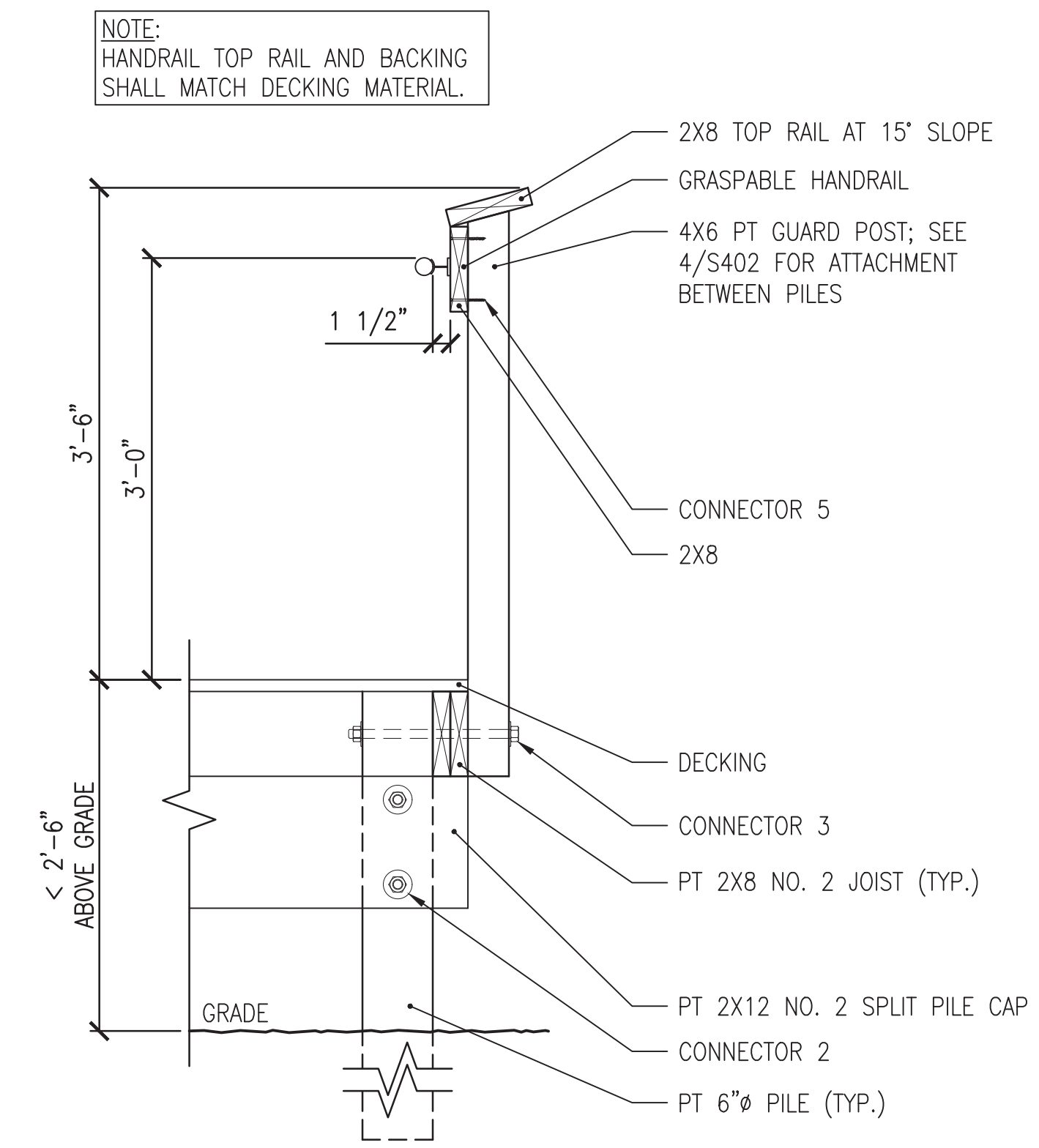
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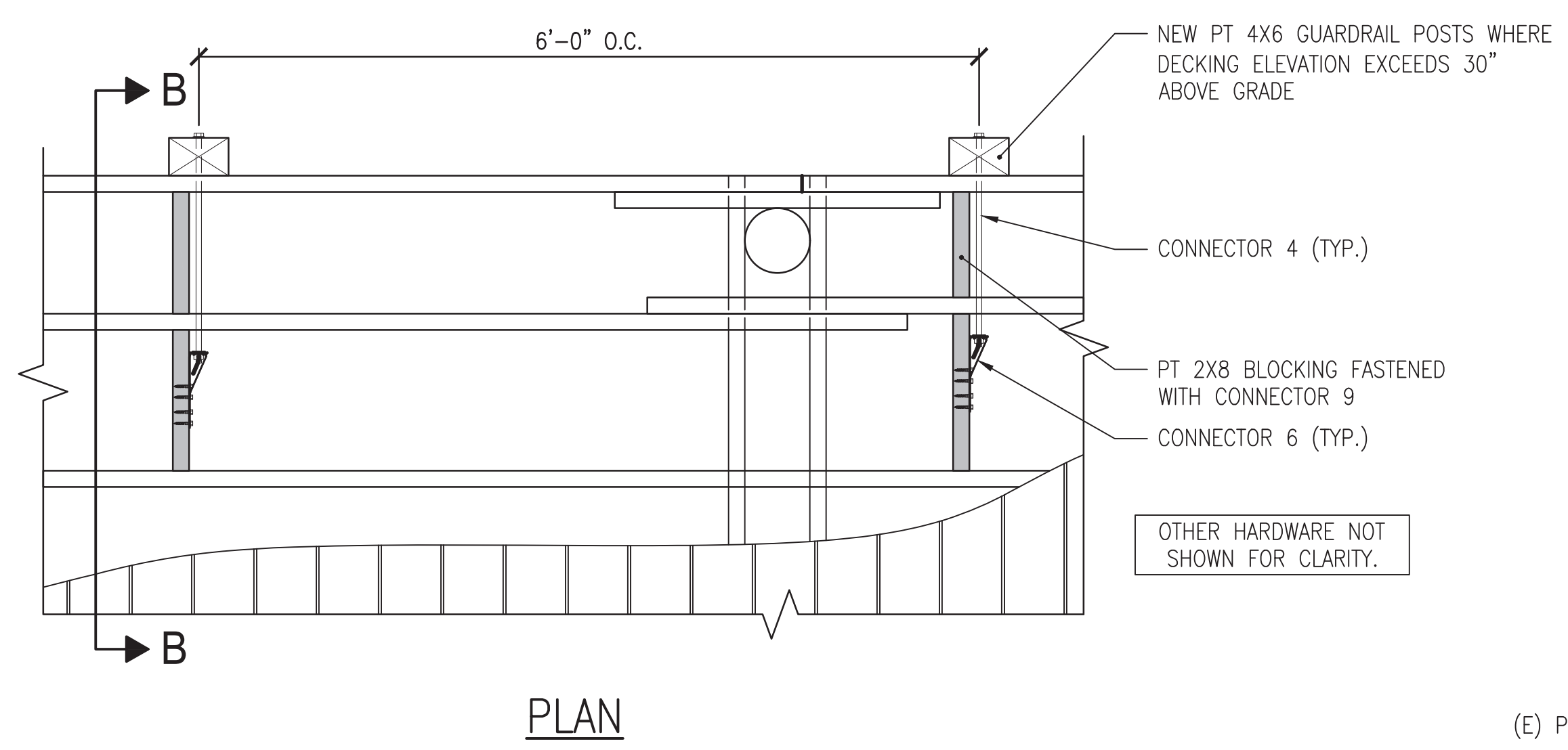
1 TYPICAL GUARD SECTION
SCALE: 1" = 1'-0"



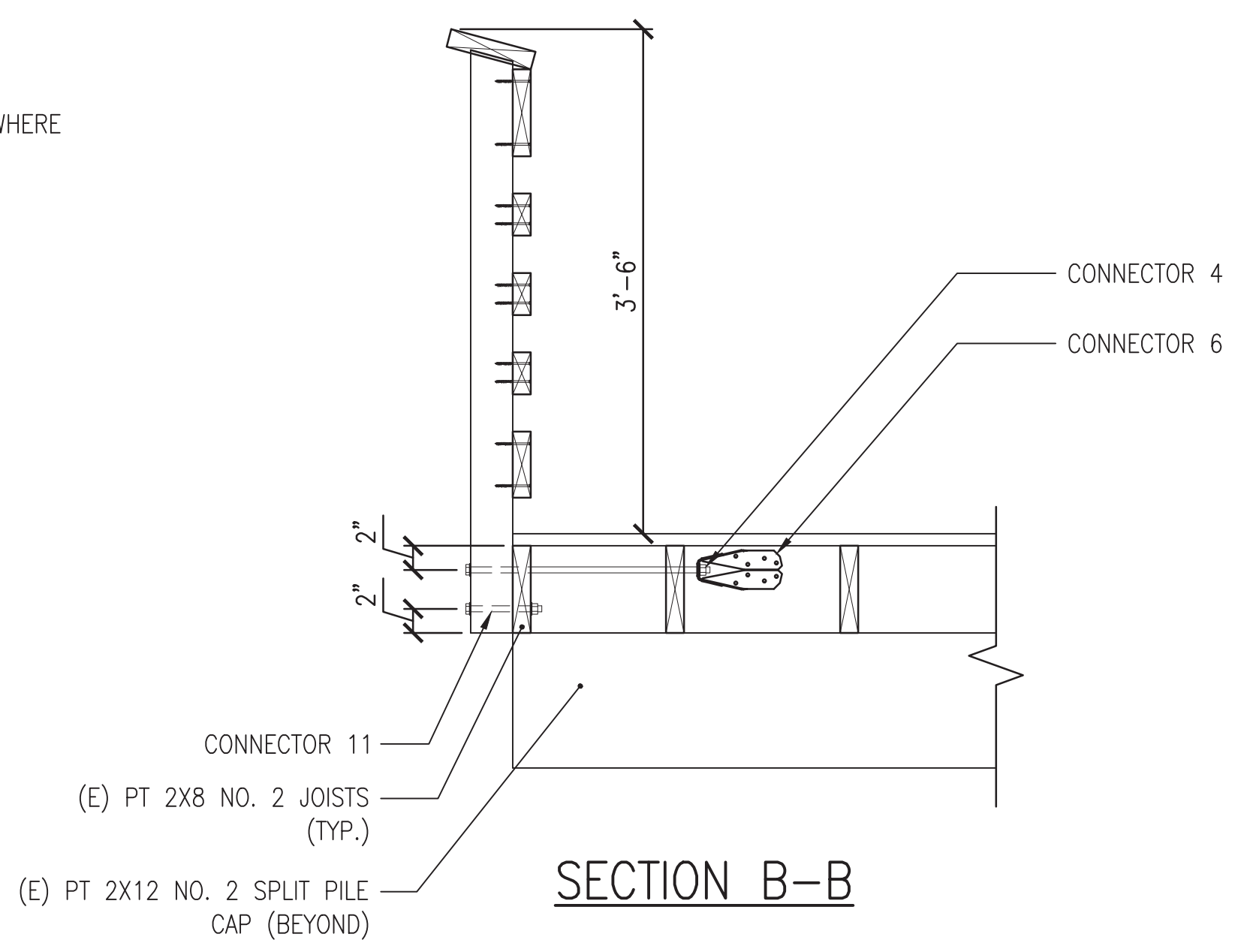
2 TYPICAL GUARD SECTION WITH GRASPABLE RAIL AT PILE
SCALE: 1" = 1'-0"



3 TYPICAL HANDRAIL WITH NO GUARD INFILL
SCALE: 1" = 1'-0"

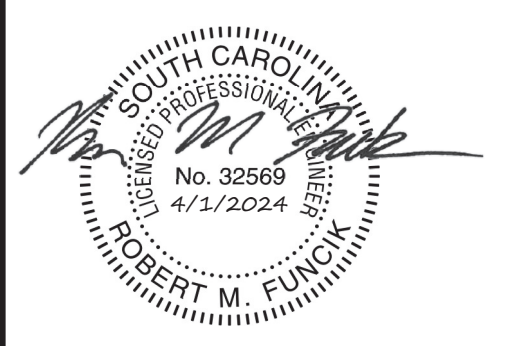


PLAN



SECTION B-B

4 GUARD POST ATTACHMENT BETWEEN PILES
SCALE: 1" = 1'-0"



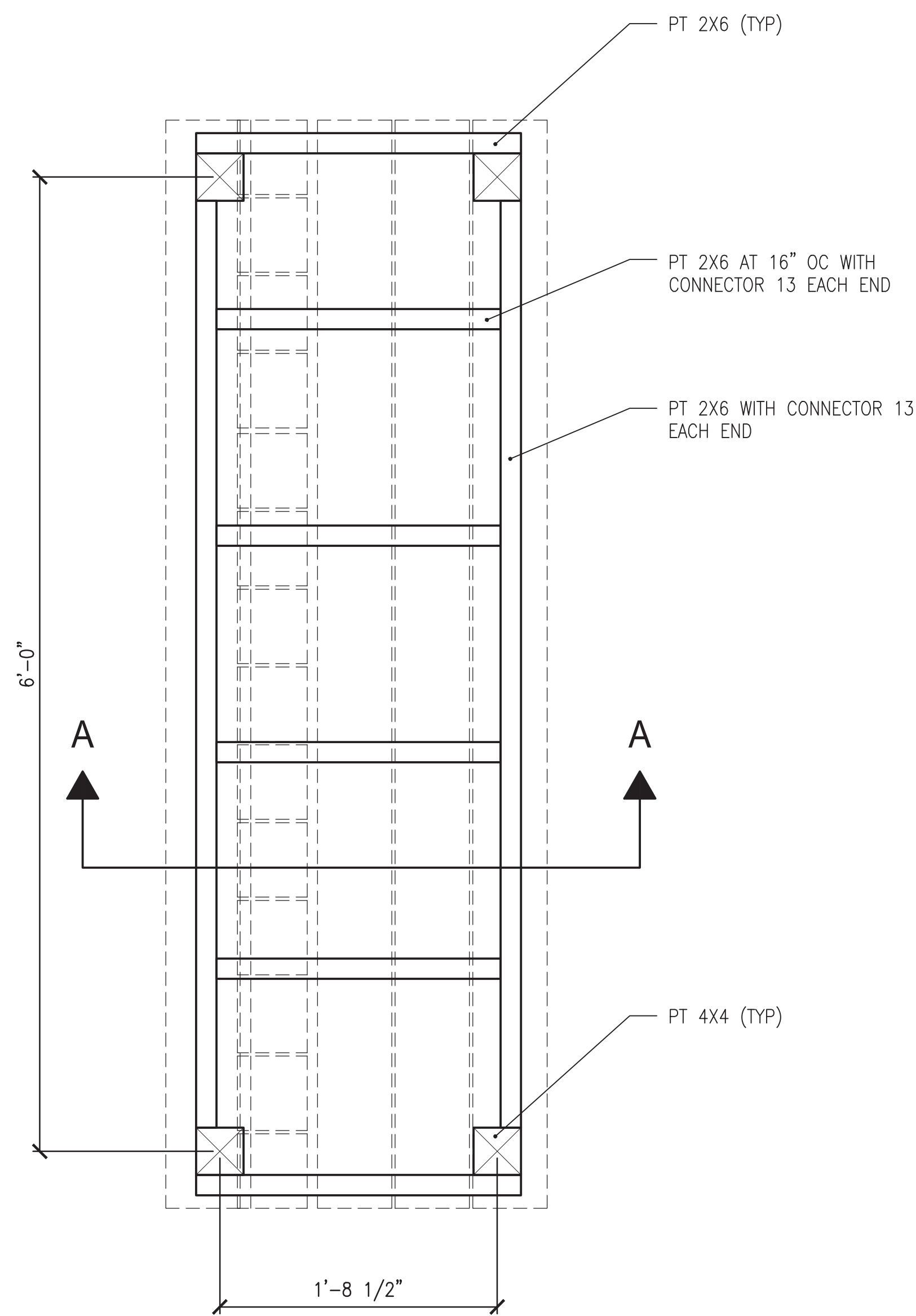
WOOD-FRAMED BOARDWALK DESIGN
SULLIVAN'S ISLAND NATURE TRAIL
SULLIVAN'S ISLAND, SOUTH CAROLINA

PERMIT SET DATE: 03/01/2024
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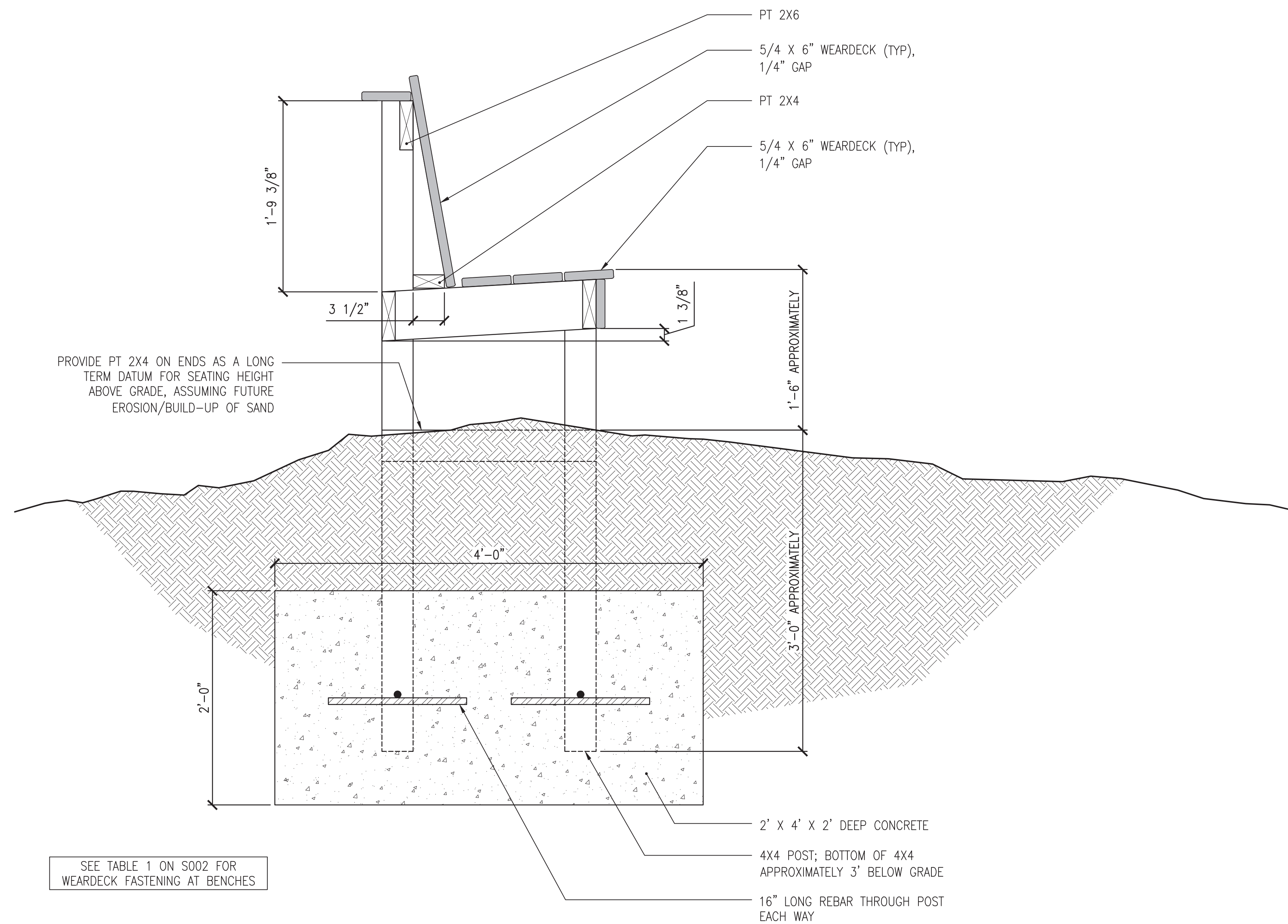
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DETAILS
SHEET
S402

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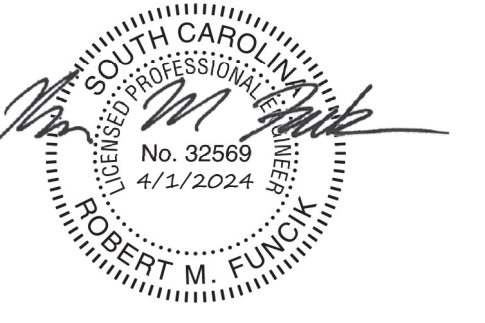
PLAN



SECTION A-A

SEE TABLE 1 ON S002 FOR WEARDECK FASTENING AT BENCHES

1 BENCH
SCALE: 1-1/2" = 1'-0"



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SULLIVAN'S ISLAND, SOUTH CAROLINA

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