



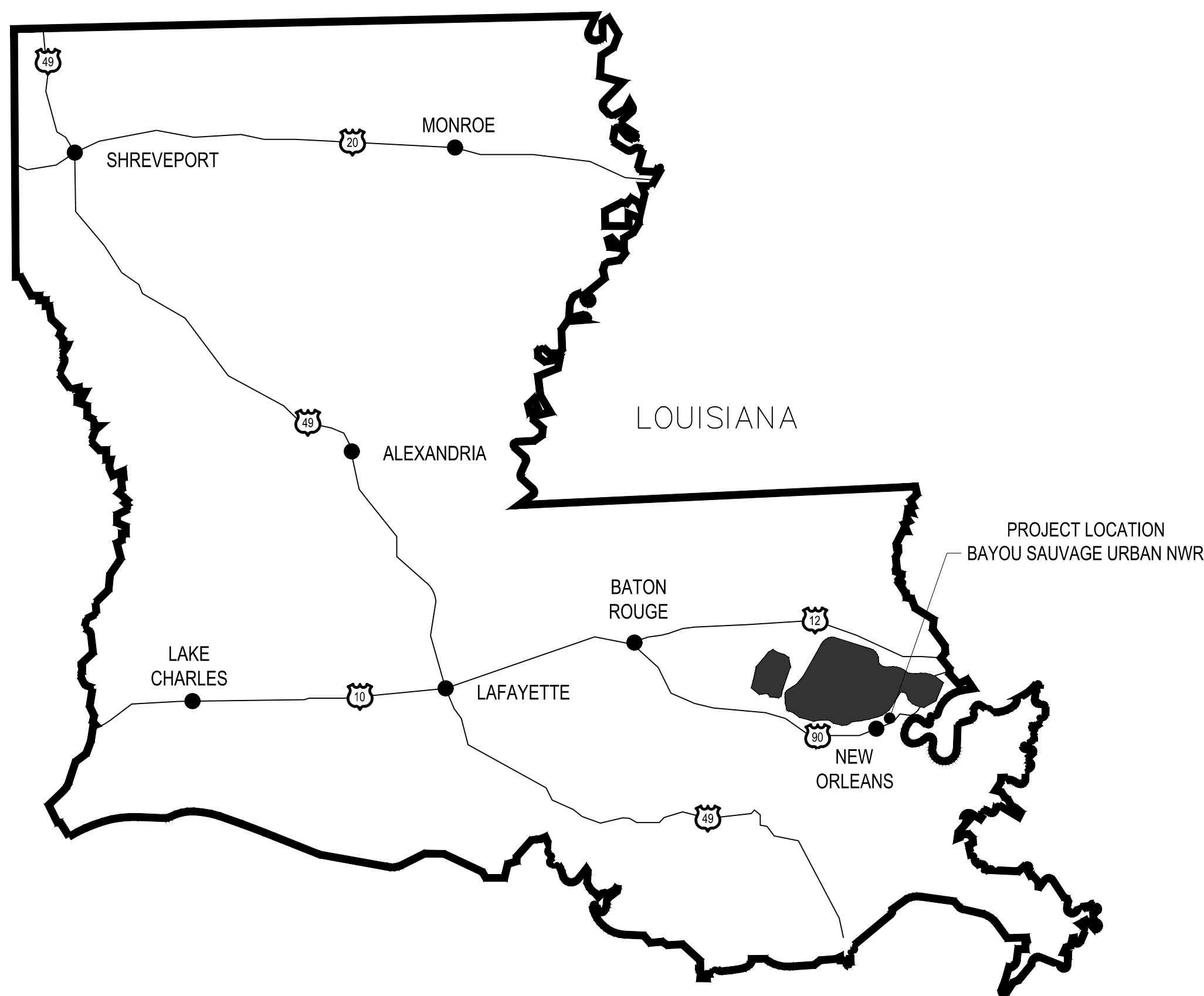
U.S. FISH & WILDLIFE SERVICE
CIVIL ENGINEERING UNIT
NEW ORLEANS, LA

DRAWING INDEX		
SHEET	DISCIPLINE	TITLE
G-01	CIVIL	TITLE SHEET
D-01	CIVIL	SURVEY AND DEMO PLAN
C-01	CIVIL	NEW SITE PLAN
C-02	CIVIL	TYPICAL SECTIONS
C-03	CIVIL	NORTH OBSERVATION DECK DETAILS
C-04	CIVIL	SOUTHWEST ENTRANCE AND EXIT DETAILS
C-05	CIVIL	SOUTHEAST OBSERVATION DETAILS
C-06	CIVIL	TYPICAL DETAILS
C-07	CIVIL	REMOVAL BRIDGE DETAILS

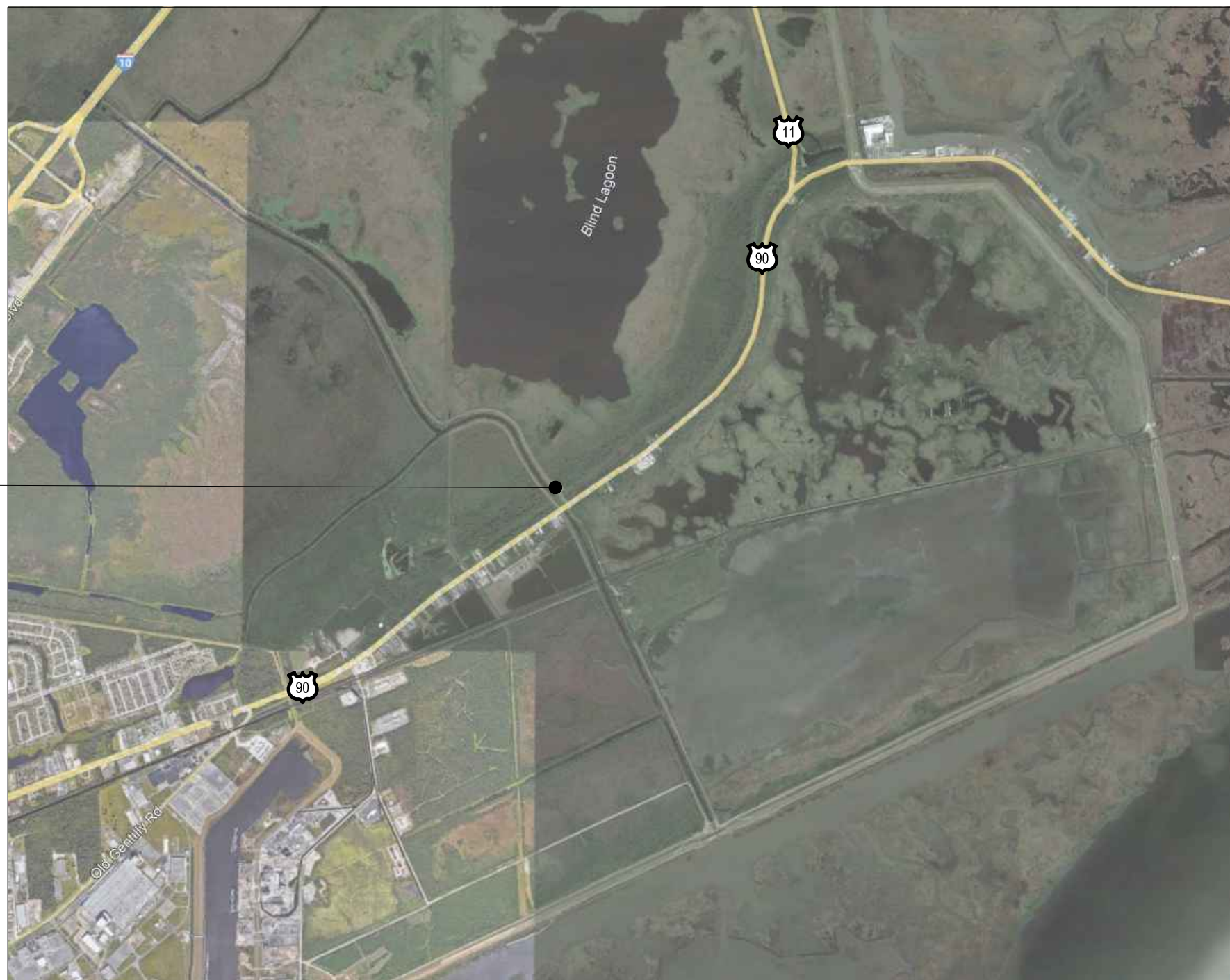
BAYOU SAUVAGE URBAN NATIONAL WILDLIFE REFUGE

SOUTH ATLANTIC-GULF & MISSISSIPPI BASIN REGION

RIDGE TRAIL BOARDWALK REHABILITATION



LOCATION MAP
SCALE: NONE



VICINITY MAP
SCALE: NONE



ARCHITECTS/ENGINEERS • PLANNING • SURVEYING • MANAGEMENT 108 W. MARKET ST., GREENWOOD, MISSISSIPPI 38930 (662) 455-4943					
DATE	REVISIONS				BY
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION					
S.O. APPROVAL					
OPERATIONS REVIEW		RIDGE TRAIL BOARDWALK			
REGIONAL ENGINEER		TITLE SHEET			
A. R. D. APPROVAL		DES. HAO	DWN. MAL	CHK. THY	PROJ. APP.
		PROJECT NUMBER F2021397359		DATE 08/28	
		SHEET		G-01	

Z:\2023\464\670-1 USFWS Ridge Trail Boardwalk - Bayou Sauvage NWR\08 Submittals\Final Drawings\DWG-D-01-Survey and Demo Plan.dwg
Aug 28, 2023 8:10am

ALL ELEVATIONS ARE IN FEET NAVD88
BASED ON GPS OBSERVATIONS (GEOID18)

TBM#1.: CROSS CUT ON CONCRETE IN FRONT OF
RESTROOMS
ELEV.: 2.53' NAVD

TBM#2.: 1/2" IRON ROD SET
ELEV.: 0.85' NAVD

TBM#3.: 1/2" IRON ROD SET
ELEV.: 0.90' NAVD

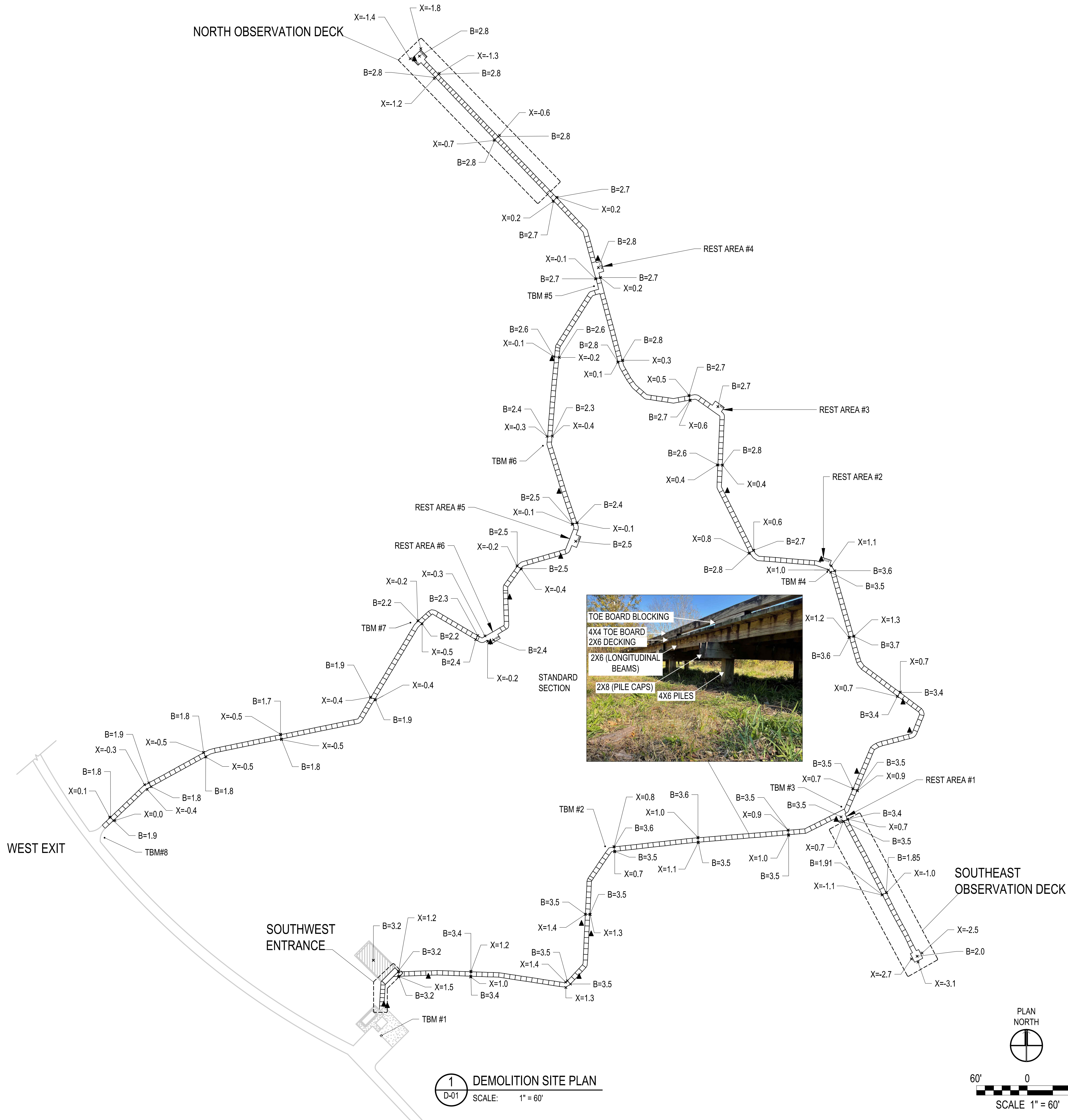
TBM#4.: 1/2" IRON ROD SET
ELEV.: 1.17' NAVD

TBM#5.: 1/2" IRON ROD SET
ELEV.: 0.25' NAVD

TBM#6.: 1/2" IRON ROD SET
ELEV.: -0.29' NAVD

TBM#7.: 1/2" IRON ROD SET
ELEV.: -0.49' NAVD

TBM#8.: 1/2" IRON ROD SET
ELEV.: 1.62' NAVD

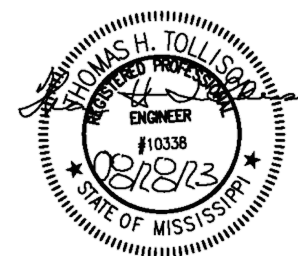



DEMOLITION NOTES:

- DEMOLISH ALL PILE CAPS, LONGITUDINAL BEAMS, DECK BOARDS, GUARDRAILS, AND CROSS BRACING. PILINGS WILL REMAIN WITH THE FOLLOWING EXCEPTIONS:
 - NORTH OBSERVATION DECK PILING WILL BE CUT TO GRADE/WATER LEVEL AND LEFT IN PLACE. NEW PILINGS ARE TO BE COORDINATED WITH EXISTING AND GEOTECHNICAL REPORT.
 - REMOVE ROUND PILINGS FOR SOUTHWEST ENTRANCE.
 - REMOVE PILINGS FOR THE SOUTHEAST OBSERVATION DECK UP TO REST AREA #1. PILINGS TO BE CUT IN PLACE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
- INVESTIGATE THE SITE TO GAIN A FULL UNDERSTANDING OF THE DEMO SCOPE OF WORK. CONTRACTOR TO COORDINATE LIMITS OF CONSTRUCTION WITH REFUGE MANAGER.
- REMOVE, PROTECT, AND REINSTALL EXISTING REFUGE INFORMATION SIGNS. LOCATION ON PLANS ARE APPROXIMATE LOCATIONS. PROVIDE SUBMITTAL FOR SIGN INVENTORY WITH LOCATIONS SUBMITTED PRIOR TO REMOVAL.
- REMOVE, PROTECT, AND REINSTALL (6) EXISTING BENCHES AT REST AREAS. NORTH OBSERVATION DECK BENCHES TO BE DEMOLISHED.
- IF ANY CREOSOTE IS ENCOUNTERED ON THE EXISTING STRUCTURE, IT MUST BE DISPOSED OF PROPERLY.
- THE SECURITY CONDUIT AT THE SOUTHWEST ENTRANCE IS TO BE RELOCATED AND REINSTALLED AFTER COMPLETION OF PROJECT.

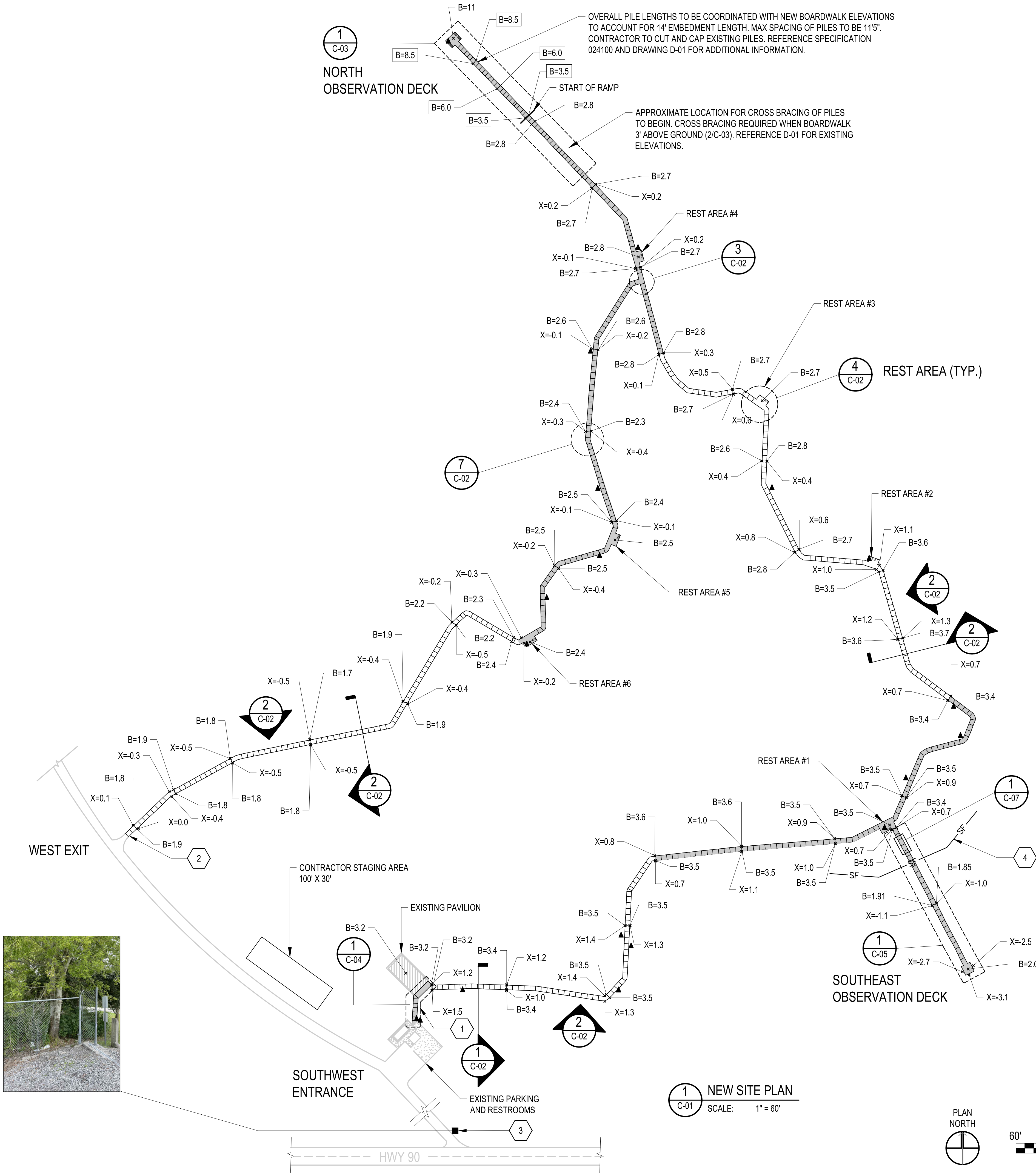
LEGEND:

- BOARDWALK
- REST AREA
- B TOP OF BOARDWALK ELEVATIONS
- X EXISTING GROUND ELEVATIONS
- ▲ EXISTING REFUGE INFORMATION SIGN
- EXISTING BENCH OR SEATING



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DATE	REVISIONS
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION	
S.O. APPROVAL	
OPERATIONS REVIEW	RIDGE TRAIL BOARDWALK
REGIONAL ENGINEER	SURVEY AND DEMO PLAN
A. R. D. APPROVAL	DES. HAO DWN. MAL CHK. THT PROJ. APP. DATE 08/28
PROJECT NUMBER	F2021397359 SHEET D-01

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Aug 28, 2023 8:10am



GENERAL NOTES:


1. PROVIDE NEW BOARDWALK SYSTEM. WOOD GRADE IS SOUTHERN PINE PRESSURE TREATED NO. 2 FOR ALL MEMBERS, WITH THE EXCEPTION OF THE 3 X 8 PILE CAPS. 3 X 8 PILE CAPS TO BE SELECT STRUCTURAL GRADE.
2. WOOD SHALL BE TREATED AS FOLLOWS:
 - PILING, PILE CAPS, AND LONGITUDINAL BEAMS: IN COMPLIANCE WITH AWPA (AMERICAN WOOD PROTECTION ASSOCIATION) STANDARD U1 USE CATEGORY 5C (SOUTHERN WATERS)-OPTIONS FOR USE OF CREOSOTE WILL NOT BE ALLOWED.
 - BALANCE OF TIMBER: IN COMPLIANCE WITH THE AWPA (AMERICAN WOOD PROTECTION ASSOCIATION) STANDARD U1 USE CATEGORY 3B AS RECOMMENDED FOR SALT WATER CONTACT. CREOSOTE WILL NOT BE ALLOWED.
3. BOLT HOLES FOR PILE CAPS IN EXISTING 4 X 6 PILES TO BE REUSED. CONTRACTOR SHALL INSPECT CONDITION OF PILES AFTER DEMOLITION. NOTIFY ENGINEER IF UNSATISFACTORY CONDITIONS EXIST.
4. ALL FIELD CUT OR DRILLED ENDS SHALL BE FIELD TREATED PER AWPA M4 USING COPPER NAPHTHENATE OR APPROVED EQUAL.
5. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED. DECK SCREWS PERMITTED TO BE COATED. RE-USE OF EXISTING HARDWARE SHALL NOT BE PERMITTED.
6. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND MEASUREMENTS PRIOR TO ORDERING MATERIAL AND BEGINNING CONSTRUCTION.
7. NEW GUARDRAILS TO BE PROVIDED AND INSTALLED AS INDICATED ON PLANS. SEE DETAIL 3/C-06.
8. 4 X 6 PILES USED AT SOUTHWEST ENTRANCE OF THE BOARDWALK, 10' EMBEDMENT REQUIRED. TIMBER PILES, 8" BUTT DIAMETER WITH 14' EMBEDMENT TO BE USED AT NORTH OBSERVATION AND SOUTHEAST OBSERVATION DECK ONLY. THE FOOTPRINT OF THESE THREE LOCATIONS IS DELINEATED ON THIS SHEET.
9. CONTRACTOR SHALL PROVIDE ALL APPLICABLE PERMITS REQUIRED BY AHJ.

KEYED NOTES:

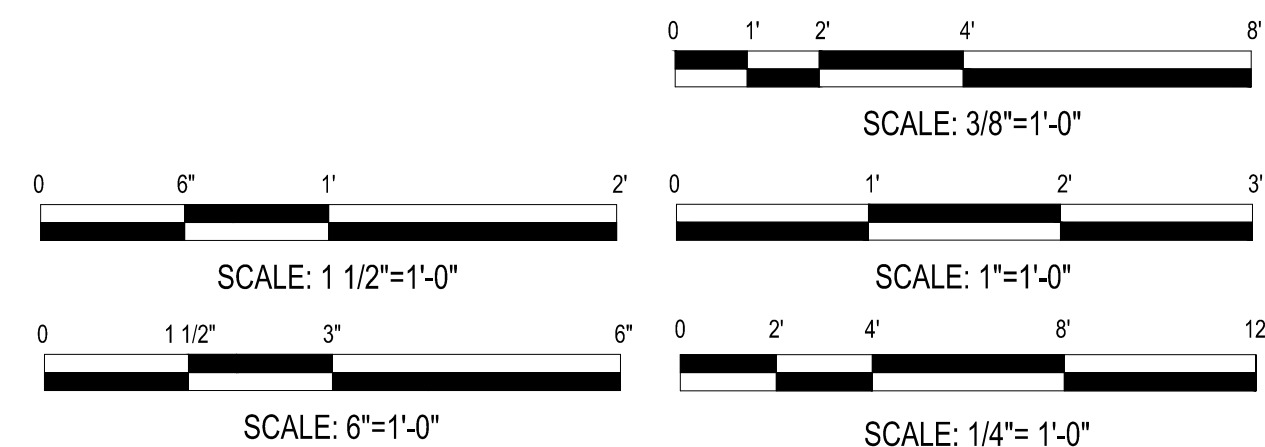
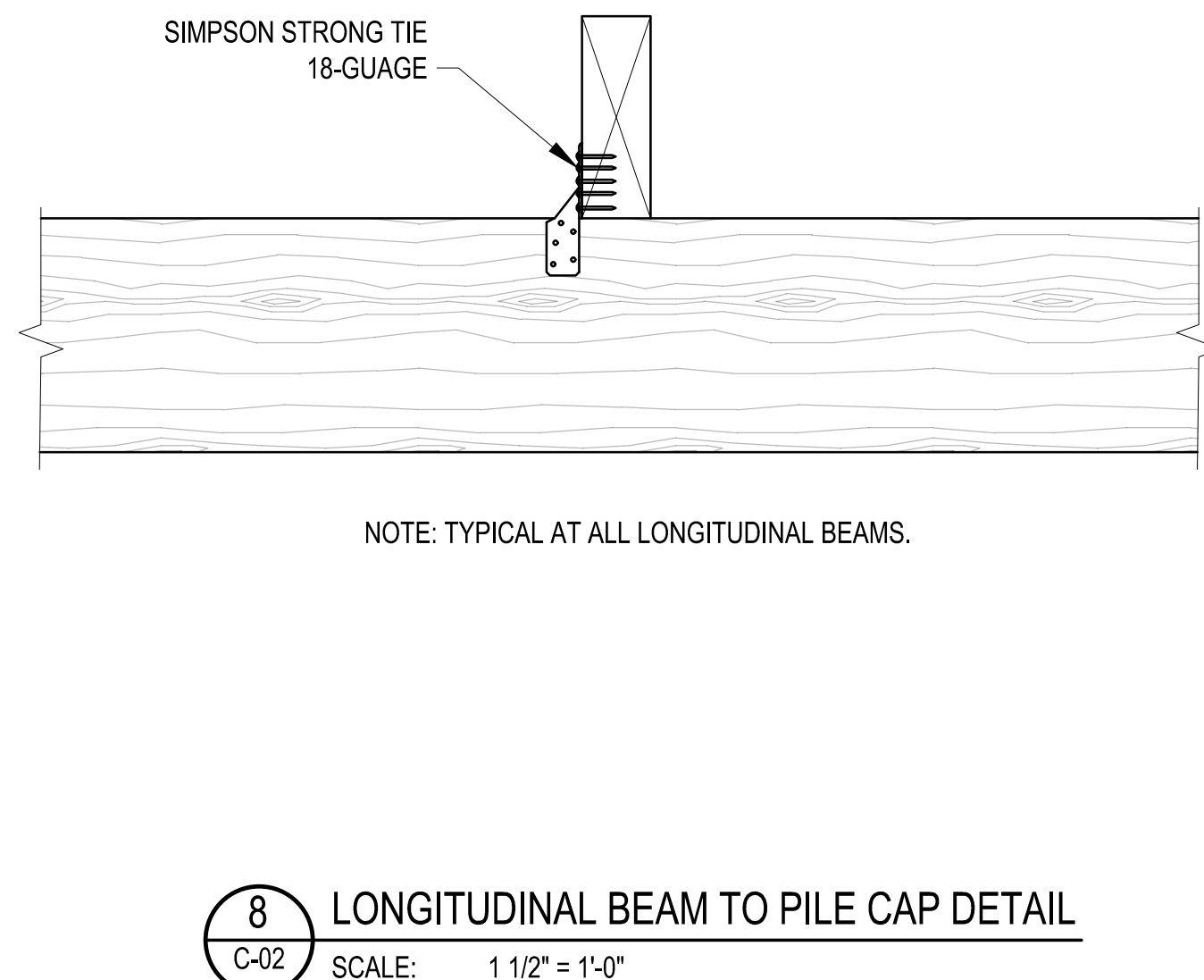
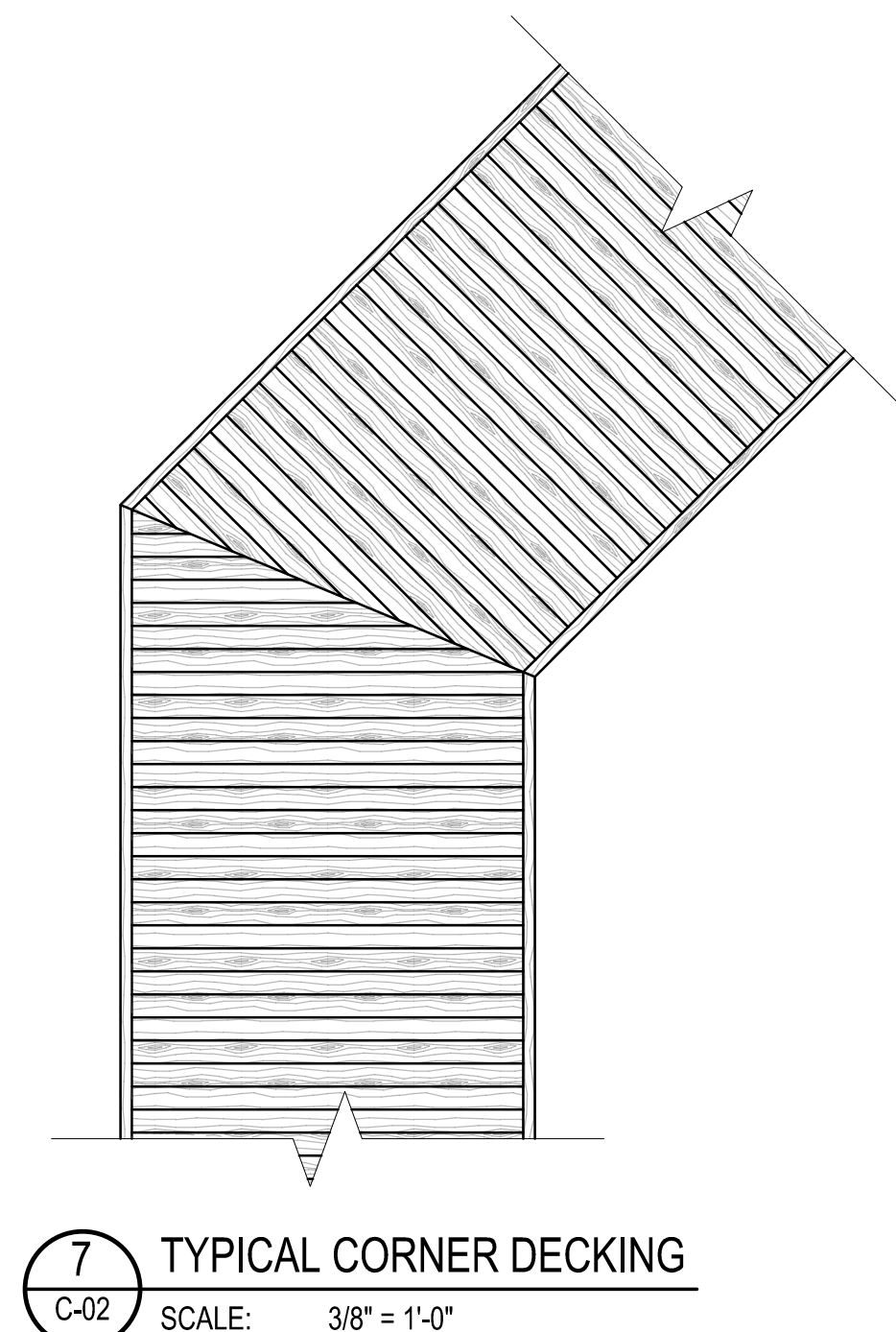
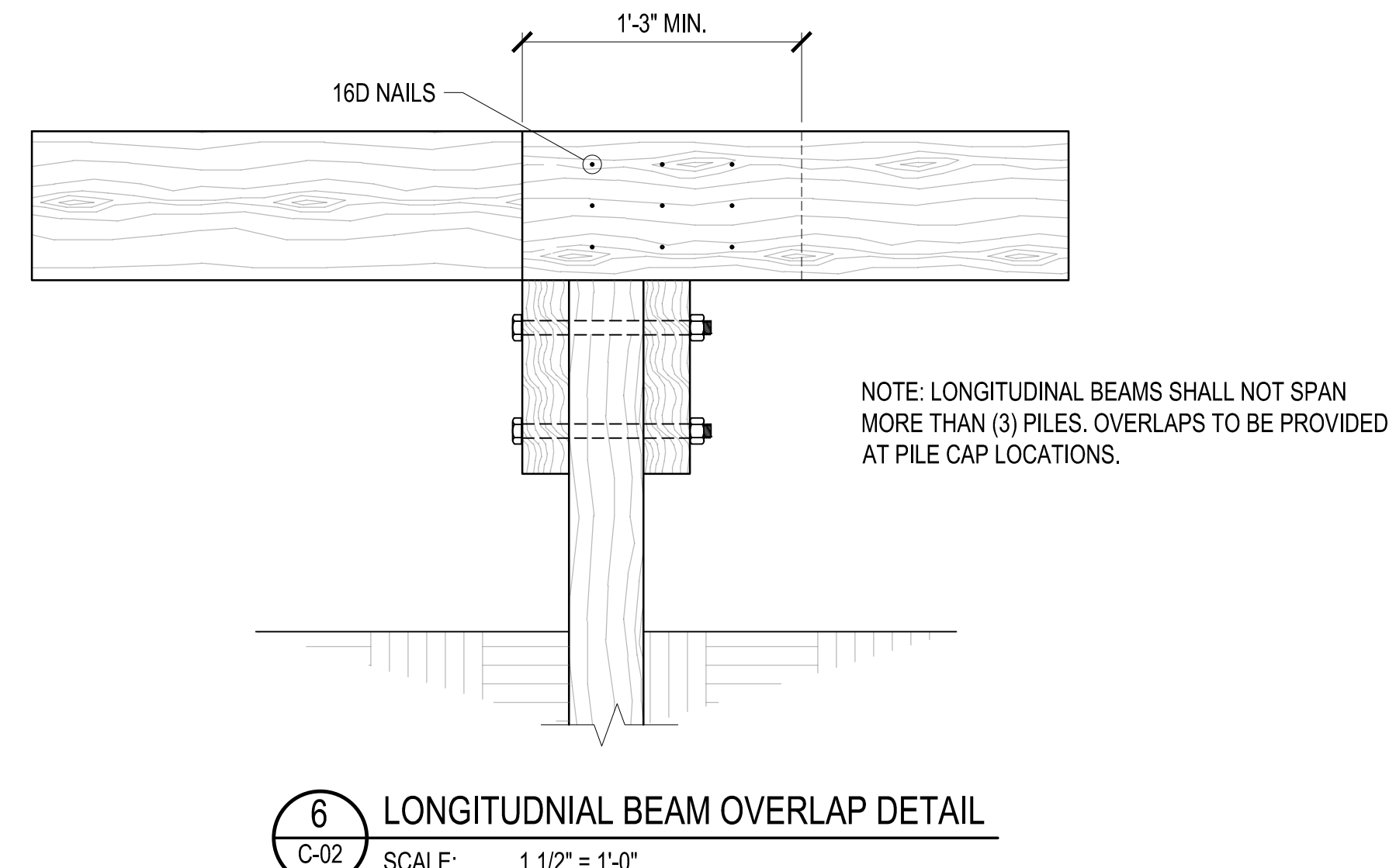
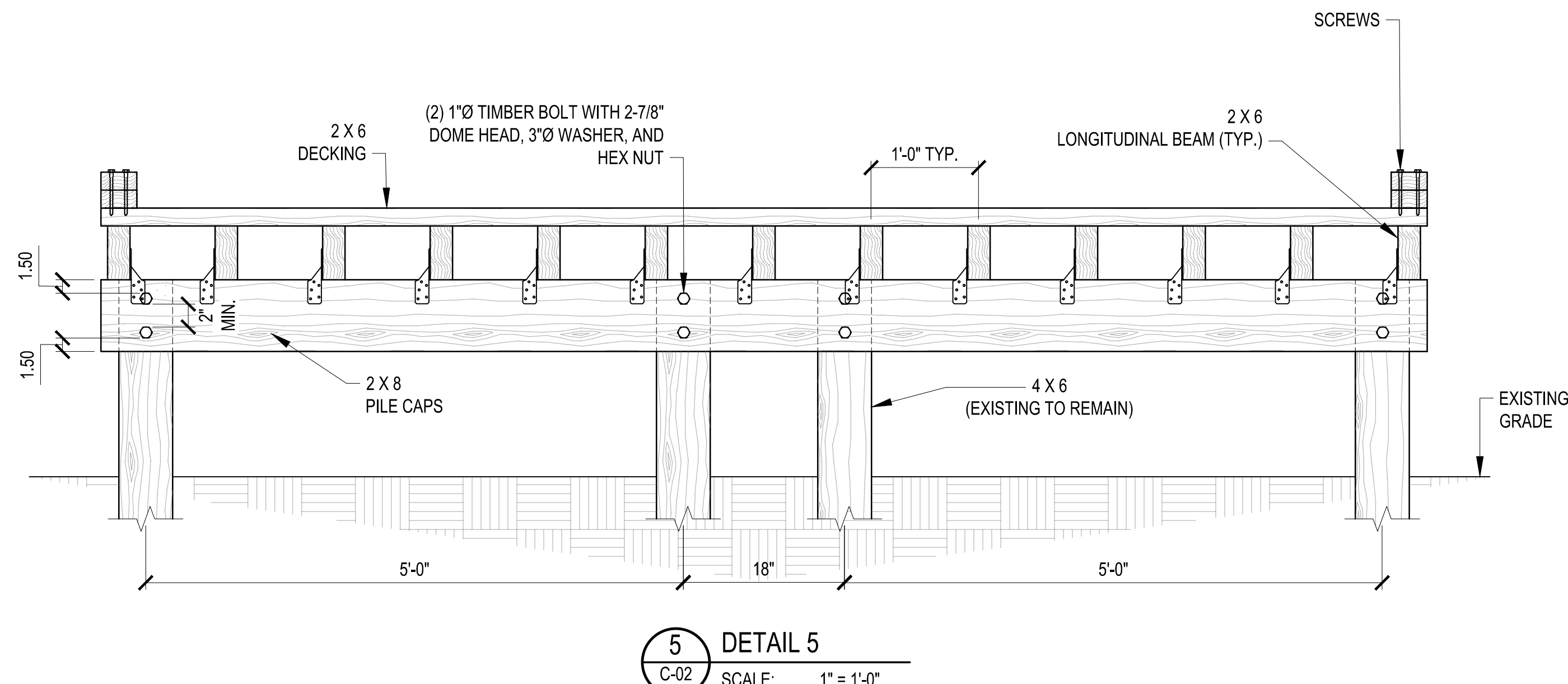
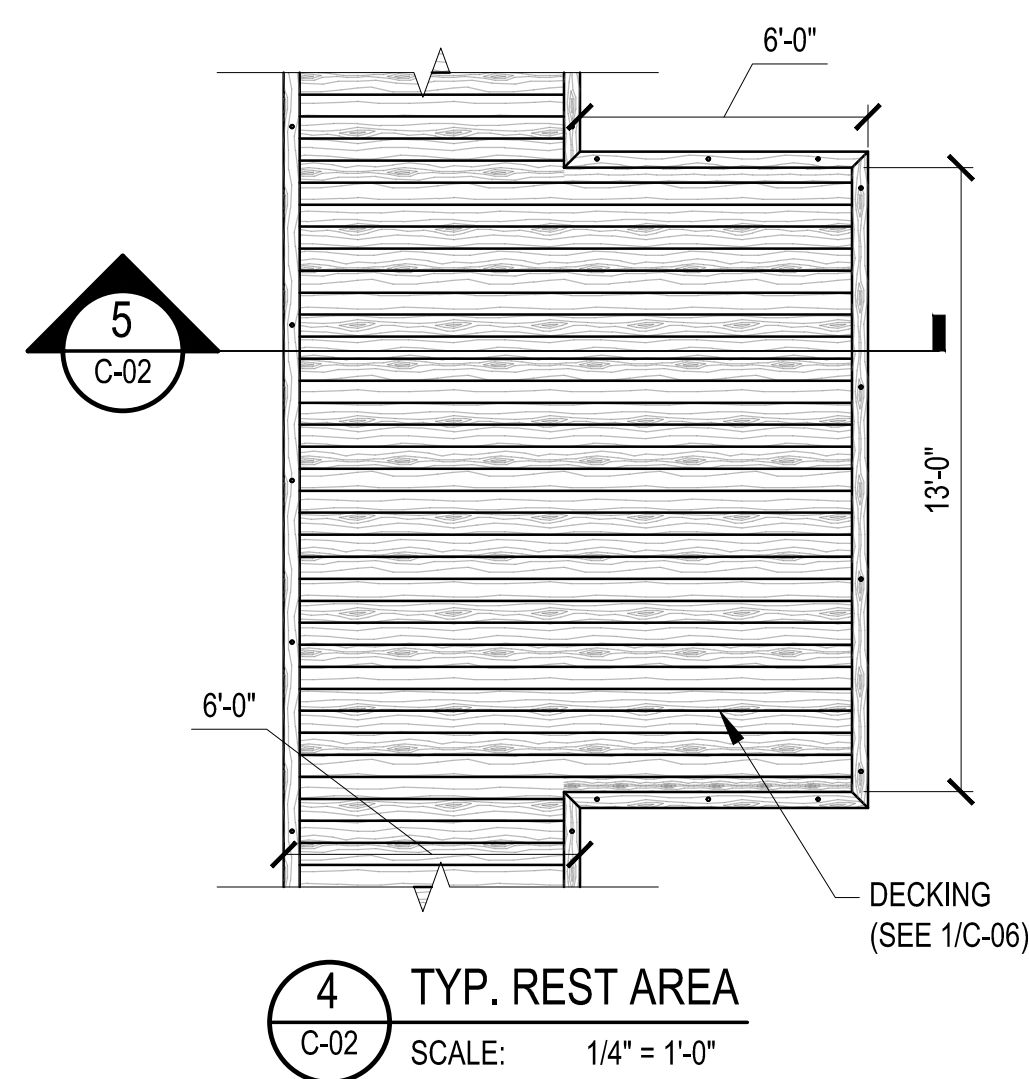
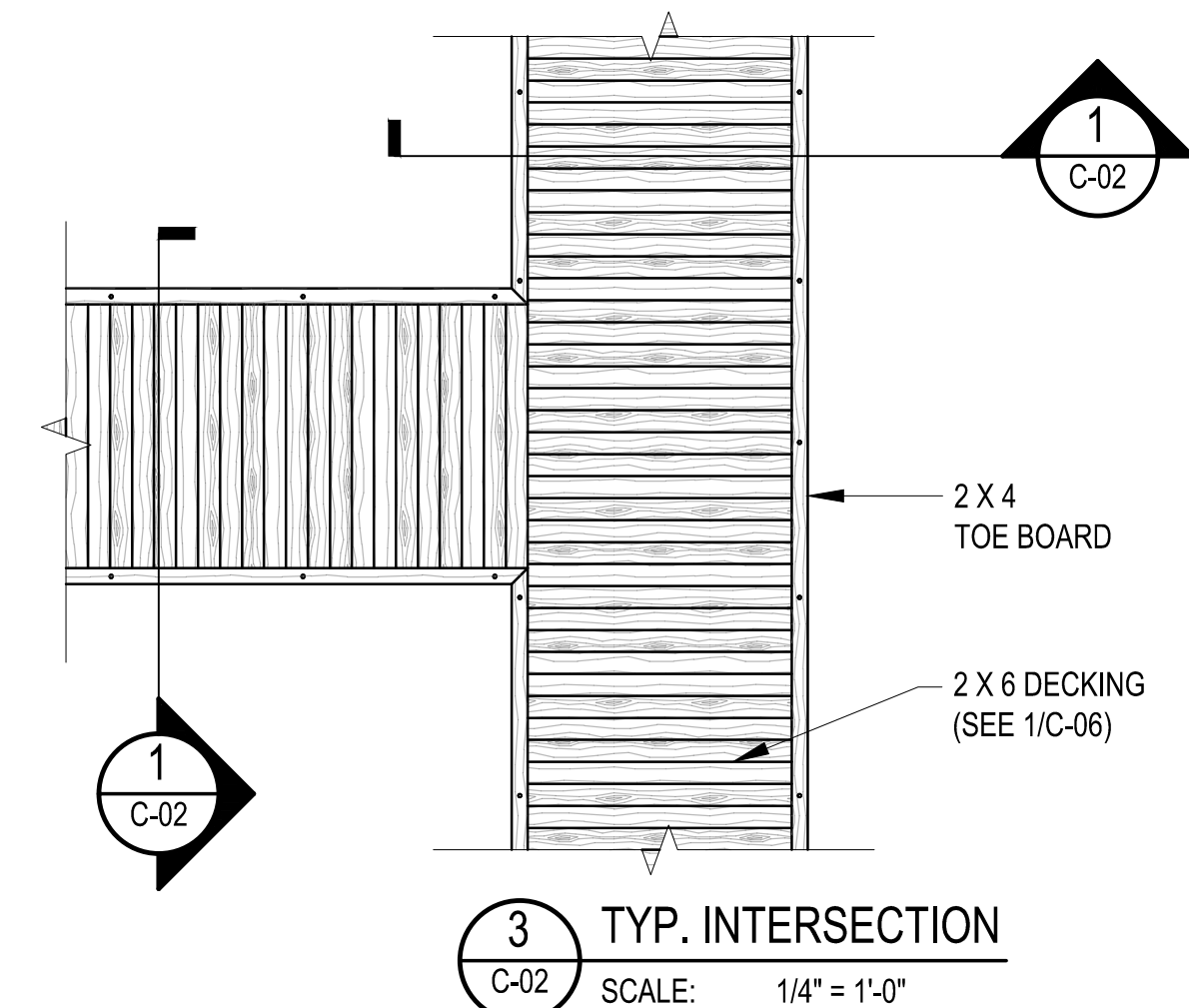
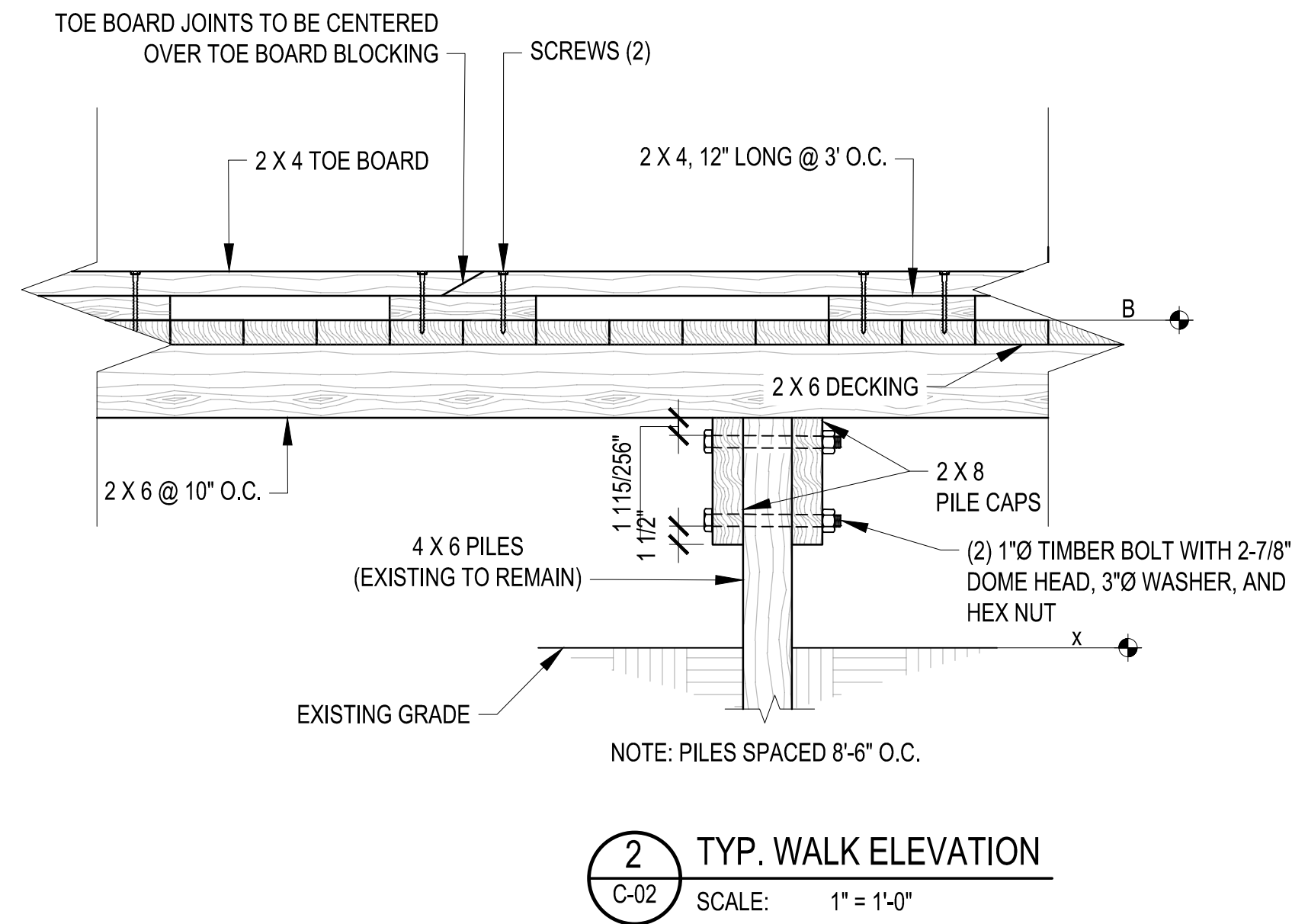
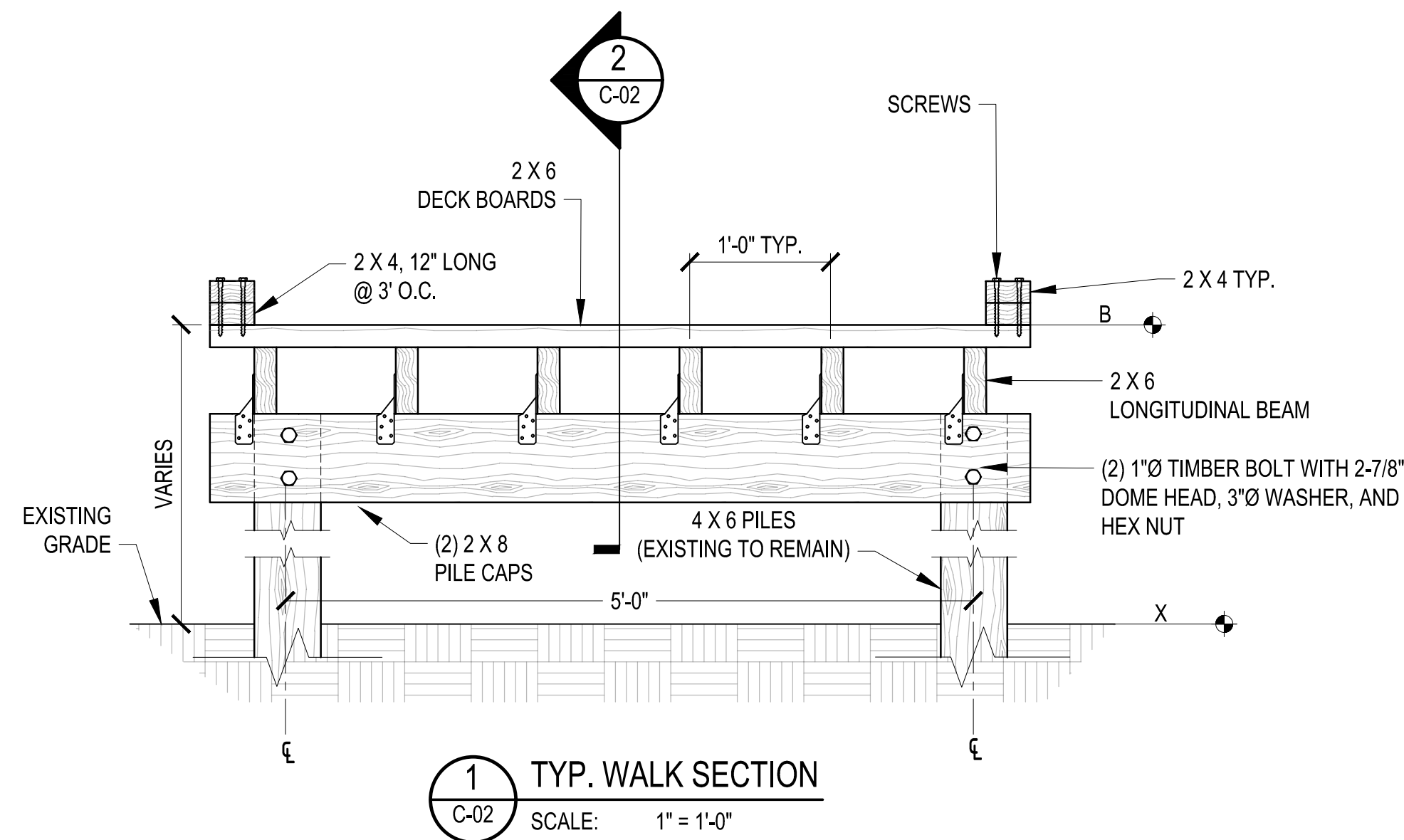
- 1 NEW BOARDWALK TO MATCH ELEVATION OF EXISTING GRAVEL ROAD TURNOUT OR CONCRETE SIDEWALK.
- 2 NEW BOARDWALK TO MATCH ELEVATION OF EXISTING GRAVEL ROAD TURNOUT.
- 3 REPAIR HOLE IN FENCE WITH LIKE AND KIND MATERIAL.
- 4 PROVIDE SILT FENCE AS REQUIRED BASED ON FIELD CONDITIONS AND REQUIREMENT OF REFUGE. SEE 6/C-06 FOR SILT FENCE DETAILS.

LEGEND:

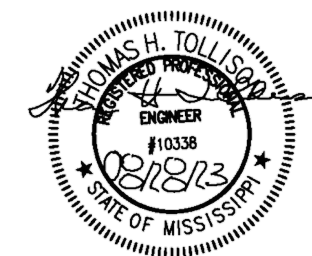
- BOARDWALK
- REST AREA (PIER)
- EXISTING REFUGE INFORMATION SIGN
- EXISTING BENCH OR SEATING
- BOARDWALK ELEVATION
- NEW PILES REQUIRED.
- BOARD WALK AREAS TO RECEIVE GUARDRAILS
- SILT FENCE

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DATE	REVISIONS		BY
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION			
S.O. APPROVAL			
OPERATIONS REVIEW		RIDGE TRAIL BOARDWALK	
REGIONAL ENGINEER		NEW SITE PLAN	
A. R. D. APPROVAL		DES. HAO	DWN. MAL
PROJECT NUMBER		F2021397359	
		PROJ. APP.	DATE 08/28
		SHEET	C-01

2: 2020, 10/14/2020, F USFWS Ridge Trail Boardwalk - Bayou Sauvage NWR NOLA\08 Submittals\Drawings\01\01\02 - Typical Sections.dwg
Aug 25, 2023 8:10am

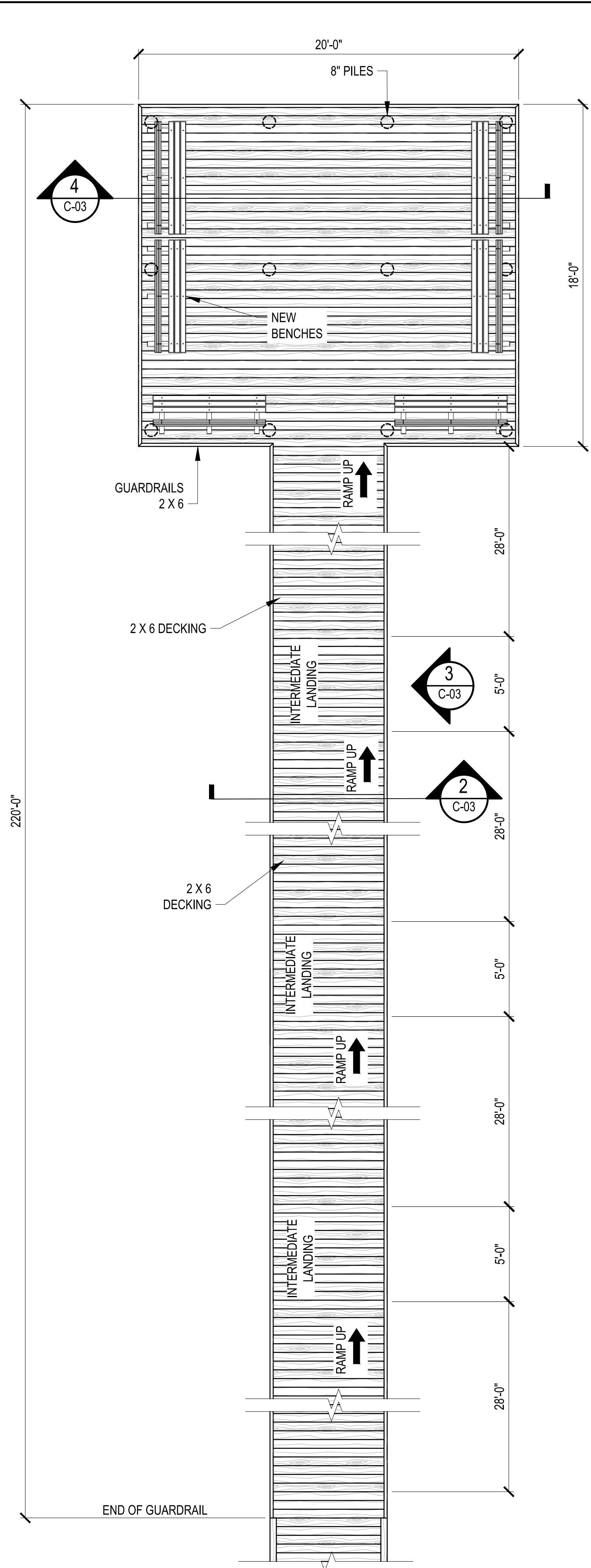


- GENERAL NOTES:**
- WOOD GRADE IS SOUTHERN PINE PRESSURE TREATED NO. 2.
 - FIELD VERIFY EXISTING CONDITIONS.
 - SEE D-01 & C-01 FOR ELEVATIONS. IDENTIFIED AS "B" AND "X".
 - LONGITUDINAL BEAMS SHALL BE SUPPORTED Laterally AT THE ENDS AND AT EACH SUPPORT BY 18 GAUGE HURRICANE CLIPS EXCEPT WHERE THE ENDS OF THE LONGITUDINAL BEAMS ARE NAILED TO A PERIMETER BEAM.
 - HOLES BORED IN LONGITUDINAL BEAMS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM. THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.



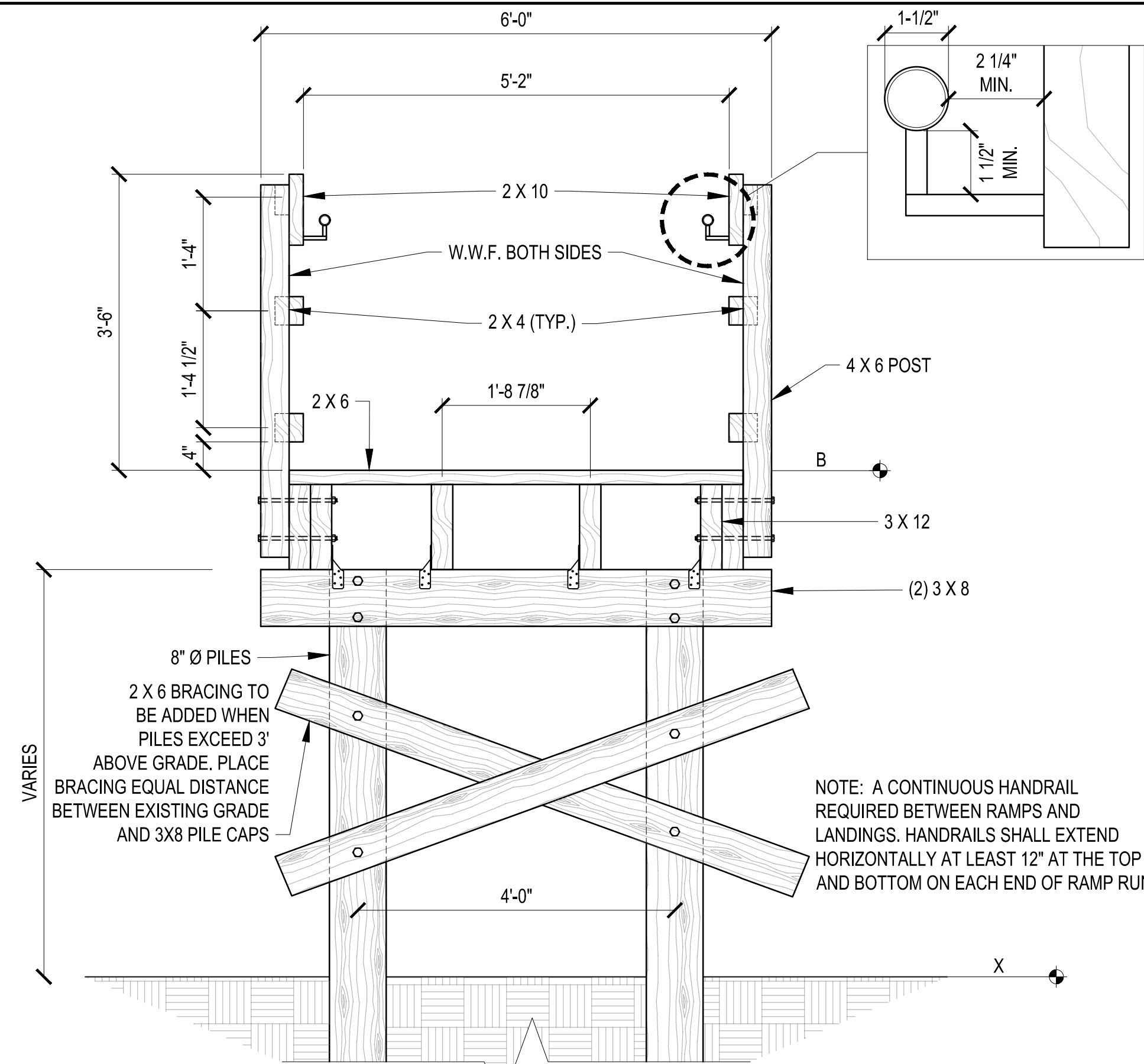
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DATE	REVISIONS	BY
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION		
S.O. APPROVAL		
OPERATIONS REVIEW	RIDGE TRAIL BOARDWALK	
REGIONAL ENGINEER	TYPICAL SECTIONS	
A. R. D. APPROVAL	DES. HAO PROJECT NUMBER F2021397359	DWN. MAL CHK. THT PROJ. APP. DATE 08/28 SHEET C-02

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Aug 28, 2023 8:10am

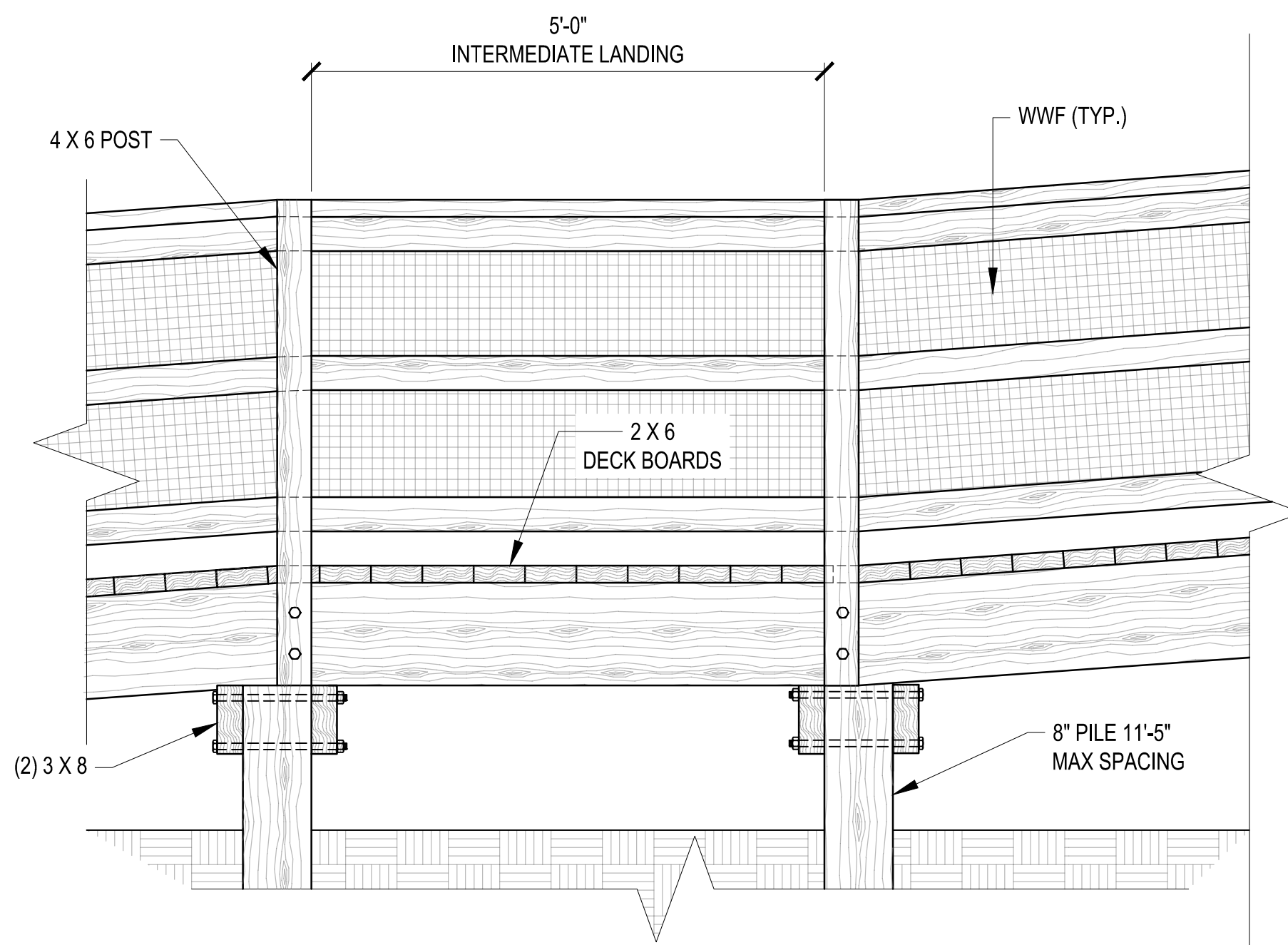


1 PLAN VIEW
SCALE: 1/4" = 1'-0"

NOTE:
RAMP RUNS TO BE 28' LONG AT 1:14 SLOPE. INTERMEDIATE
LANDINGS 5'.



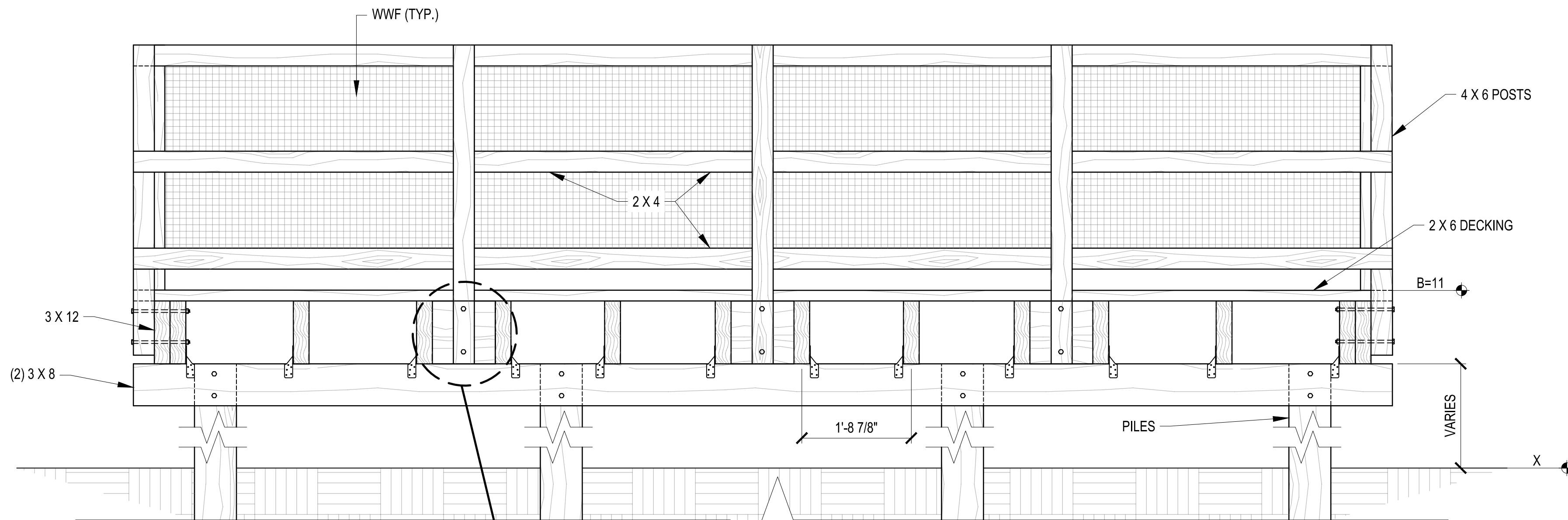
2 TYP. SECTION
SCALE: 3/4" = 1'-0"



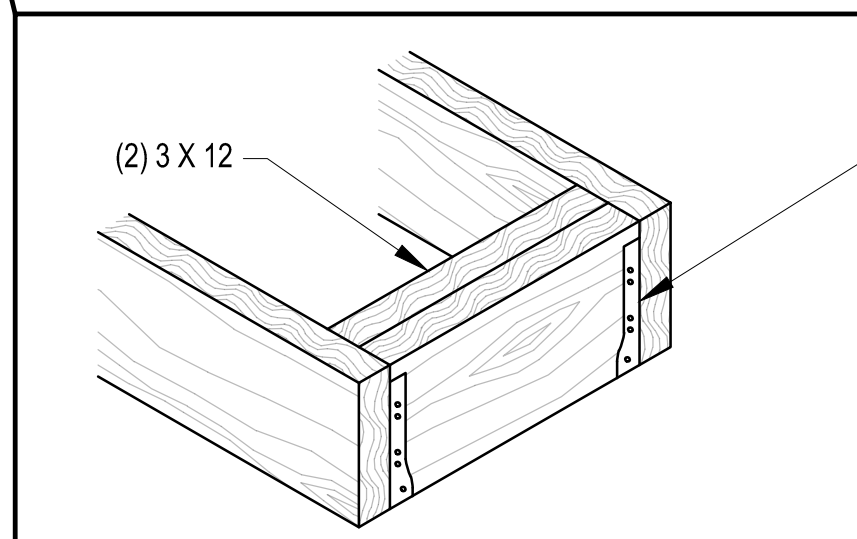
3 TYP. WALK
ELEVATION AT TRANSITION
SCALE: 3/4" = 1'-0"

NORTH OBSERVATION DECK GENERAL NOTES:

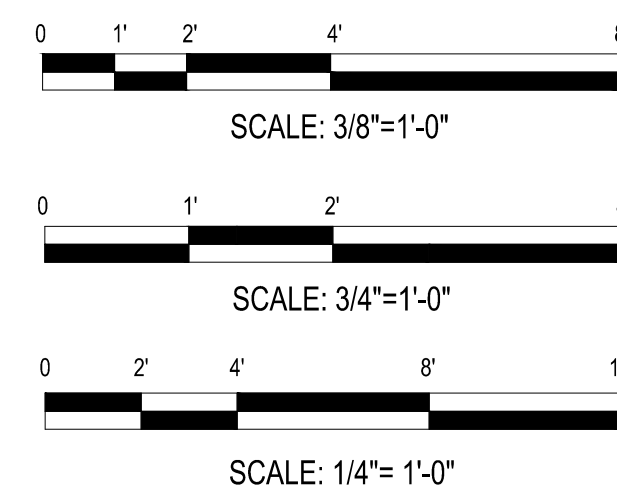
1. FIELD VERIFY EXISTING CONDITIONS.
2. SEE C-06 FOR TYPICAL HANDRAIL DETAILS TO BE UTILIZED AT ALL LOCATIONS.
3. A TOTAL OF (6) NEW BENCHES TO BE ADDED. PILOT ROCK MODEL RBB/N-6C26. COLORS CHOSEN BY OWNER FROM STANDARD SELECTION PROVIDED BY MANUFACTURER.
4. PROVIDE HANDRAILS TO MEET ABA COMPLIANCE. RAILING AND COMPONENTS TO BE BLACK ANODIZED ALUMINUM. FASTENERS TO BE HDG.



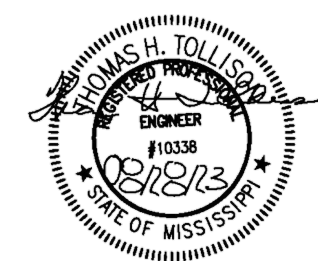
4 NORTH
OBSERVATION DECK ELEVATION
SCALE: 3/4" = 1'-0"



5 CROSS BRACING AT
HANDRAIL POINT
SCALE: 3/4" = 1'-0"

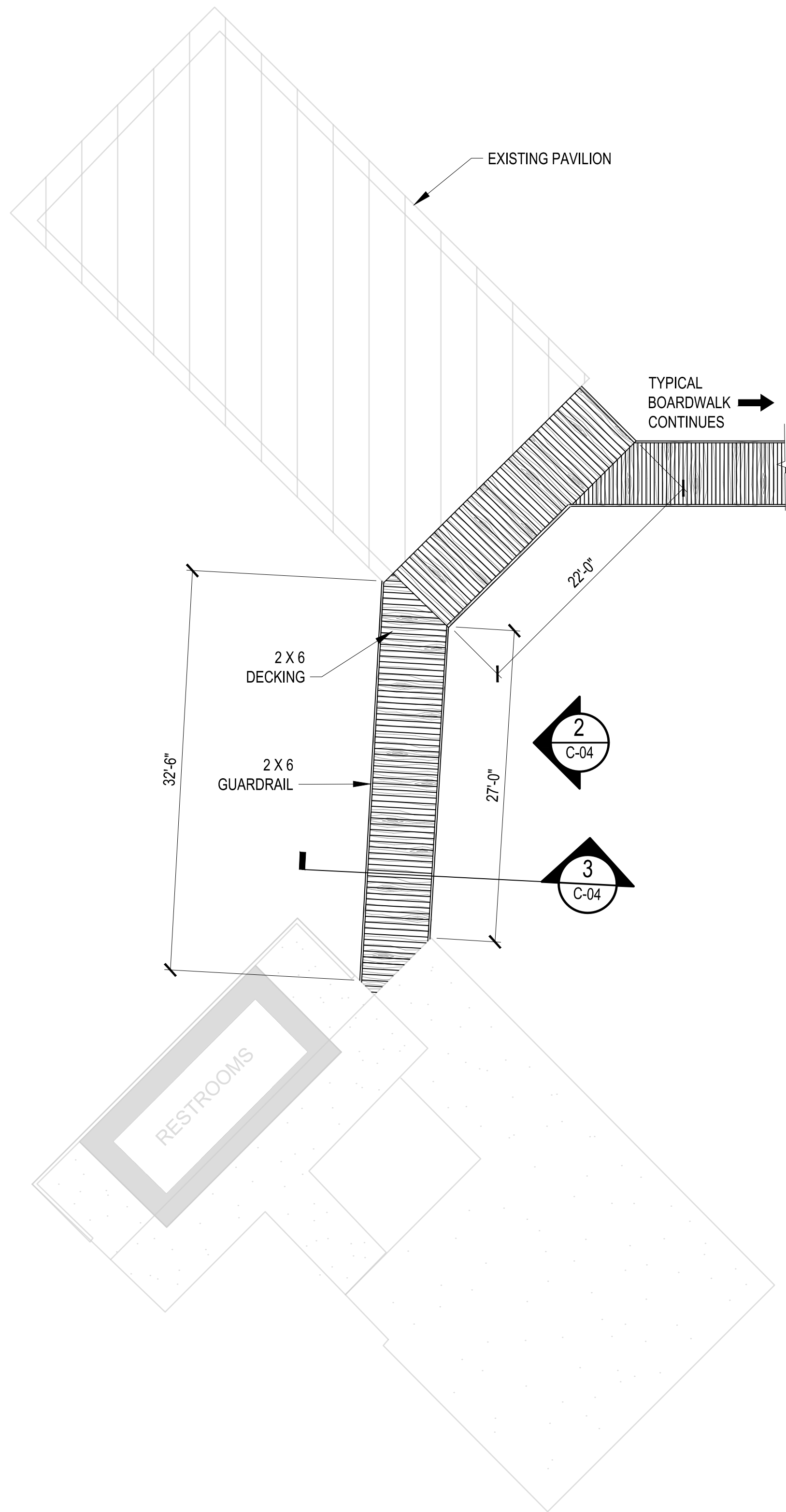


NOTE:
TIMBER PILES, MIN. 8" BUTT DIAMETER MIN. 14' EMBEDMENT.

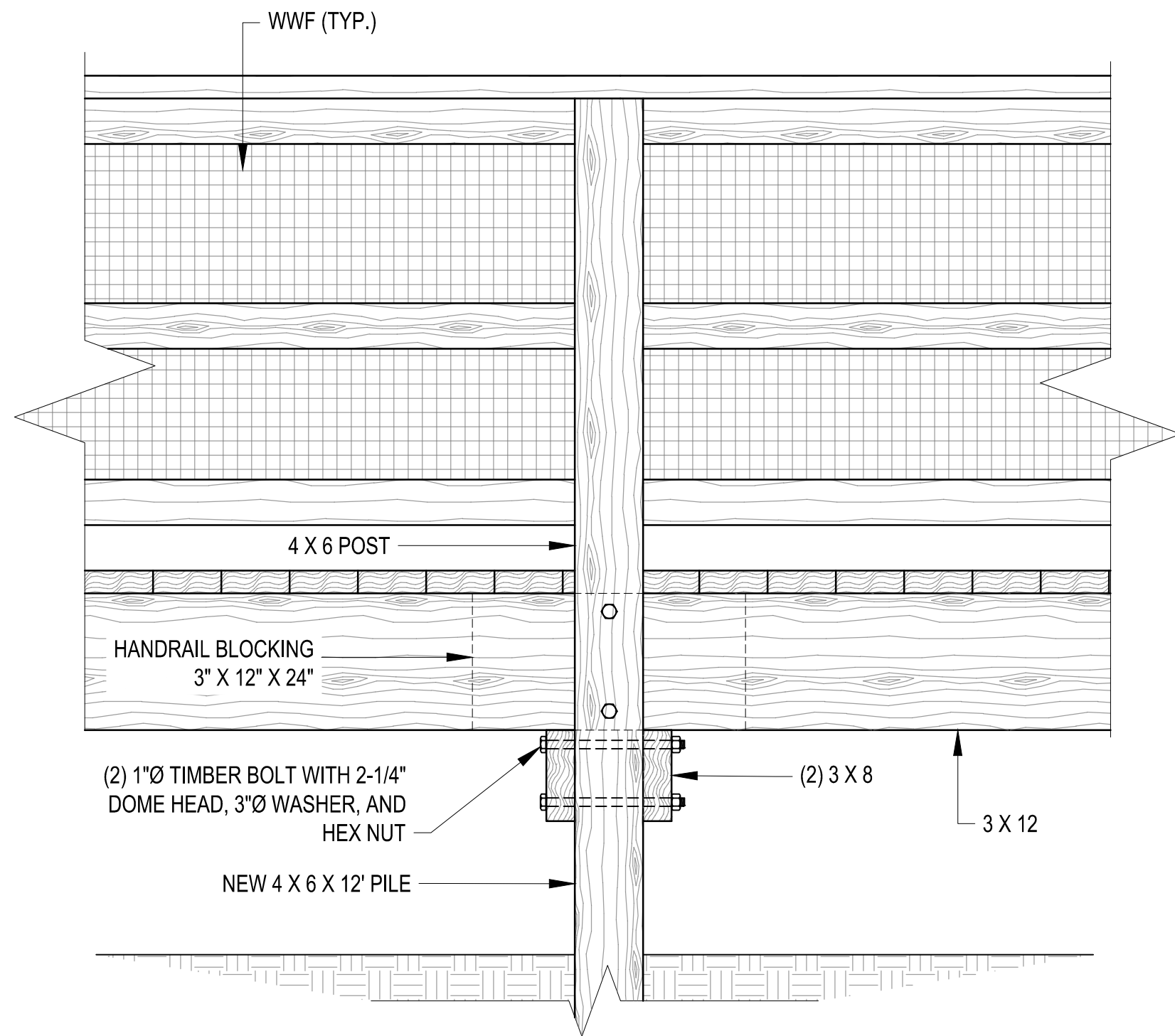


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S.O. APPROVAL				
OPERATIONS REVIEW	RIDGE TRAIL BOARDWALK			
REGIONAL ENGINEER	NORTH OBSERVATION DECK			
A. R. D. APPROVAL	DES. HAO	DWN. MAL	CHK. THT	PROJ. APP. DATE 08/28
PROJECT NUMBER	F2021397359			SHEET C-03

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Aug 25, 2023 8:10am

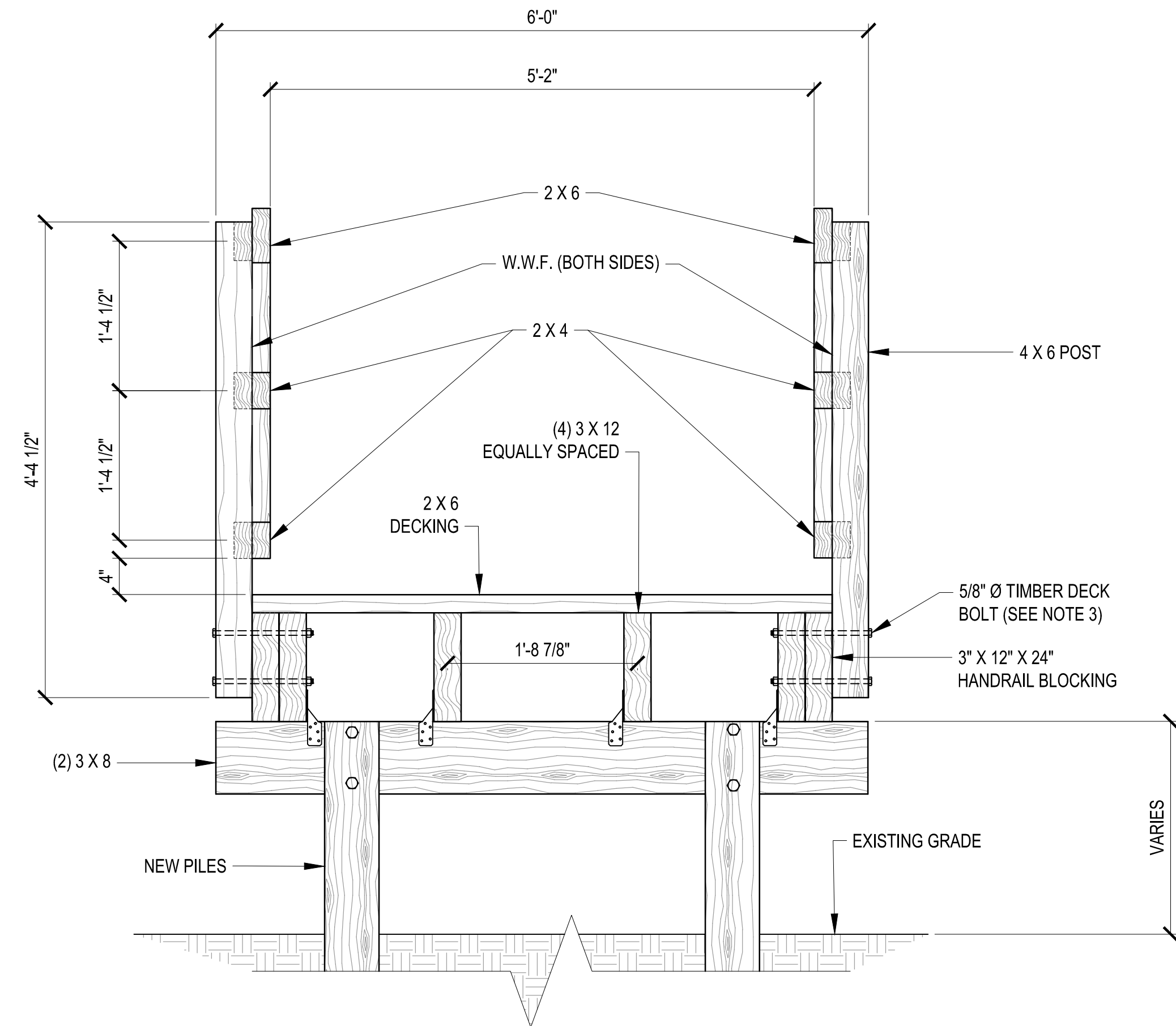


1
C-04
SOUTHWEST
ENTRANCE PLAN VIEW
SCALE: 1/16" = 1'-0"

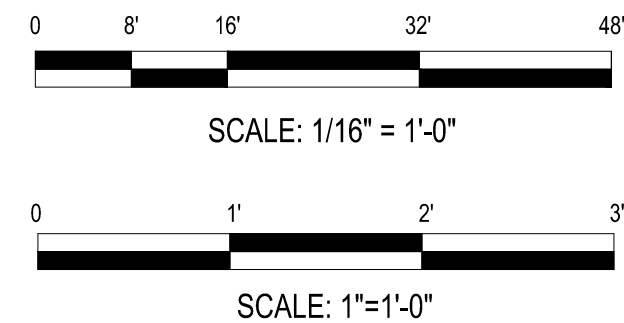


2
C-04
SOUTHWEST ENTRANCE
SCALE: 1" = 1'-0"

NOTE:
4X6 PILES WITH 10' EMBEDMENT.




3
C-04
TYPICAL SECTION
SCALE: 1" = 1'-0"

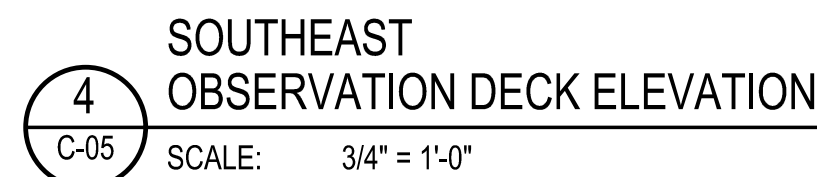
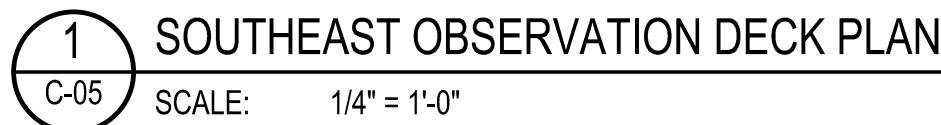


SOUTHWEST ENTRANCE GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS.
2. ELEVATION OF THE NEW BOARDWALK TO MATCH EXISTING CONCRETE SIDEWALK AND PAVILION.
3. SEE D-01 FOR ELEVATIONS, IDENTIFIED AS "B" AND "X".
4. SEE C-06 FOR TYPICAL HANDRAIL DETAILS.
5. THE SECURITY CONDUIT AT THE SOUTHWEST ENTRANCE IS TO BE RELOCATED AND REINSTALLED AFTER THE COMPLETION OF PROJECT.

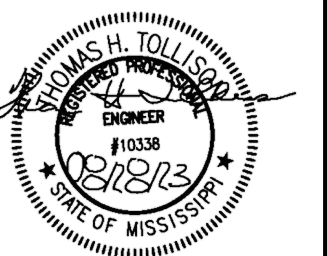



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DATE	REVISIONS		BY
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION			
S.O. APPROVAL			
OPERATIONS REVIEW		RIDGE TRAIL BOARDWALK	
REGIONAL ENGINEER		SOUTHWEST ENTRANCE DETAILS	
A. R. D. APPROVAL		DES. HAO	DWN. MAL
		CHK. THT	PROJ. APP.
		DATE 08/28	
PROJECT NUMBER		F2021397359	SHEET C-04

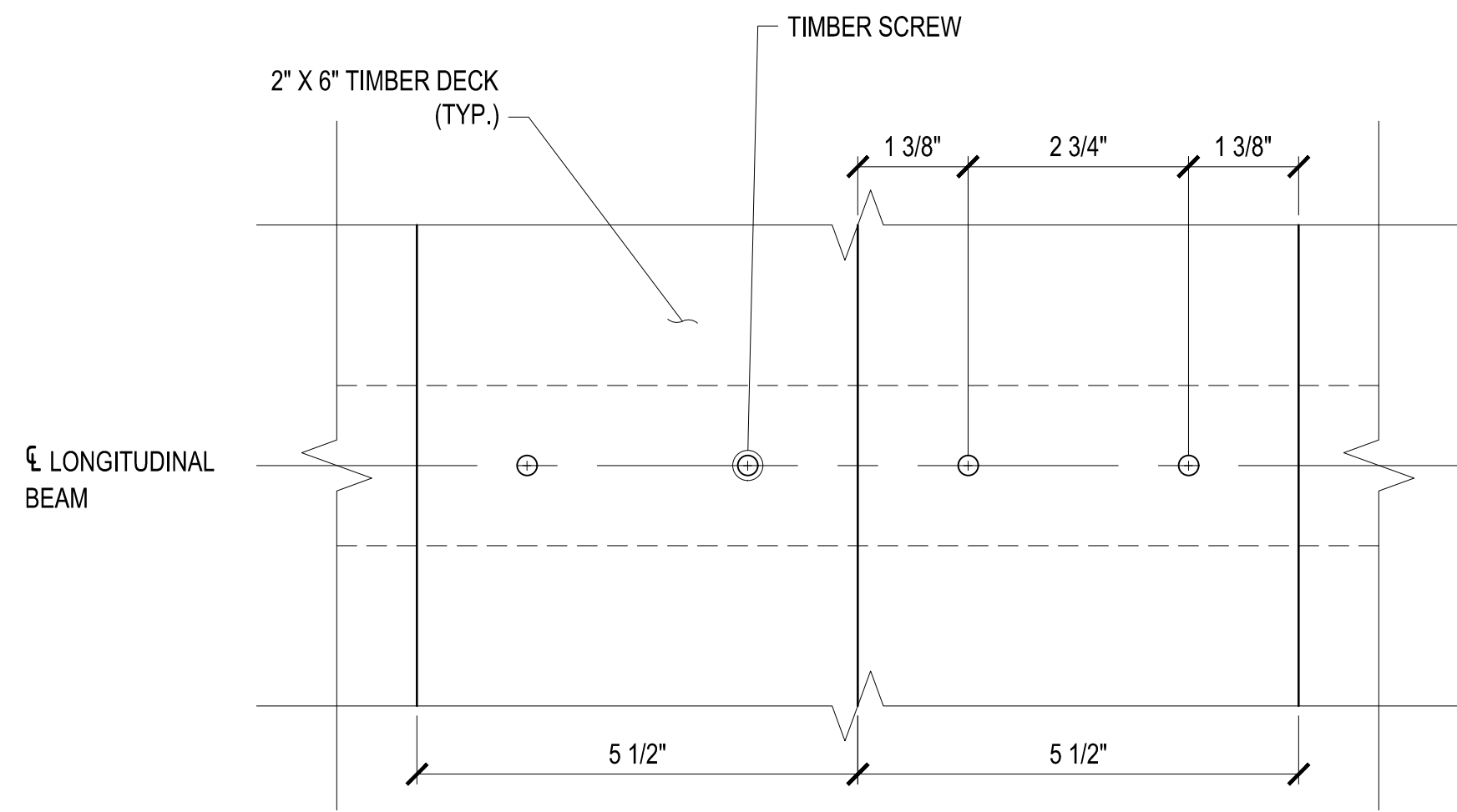


NOTE:
TIMBER PILES, MIN. 8" BUTT DIAMETER MIN. 14' EMBEDMENT.

- ### SOUTHEAST DECK GENERAL NOTES:
1. FIELD VERIFY EXISTING CONDITIONS.
 2. ELEVATION OF NEW BOARDWALK TO MATCH EXISTING.
 3. SEE D-01 FOR ELEVATIONS. IDENTIFIED AS "B" AND "X".
 4. SEE 2/C-06 FOR TYPICAL HANDRAIL DETAILS TO BE UTILIZED AT ALL LOCATIONS.
 5. A TOTAL OF (6) NEW BENCHES TO BE ADDED. PILOT ROCK MODEL RBBN-6C26. COLORS CHOSEN BY OWNER FROM STANDARD SELECTION PROVIDED BY MANUFACTURER.

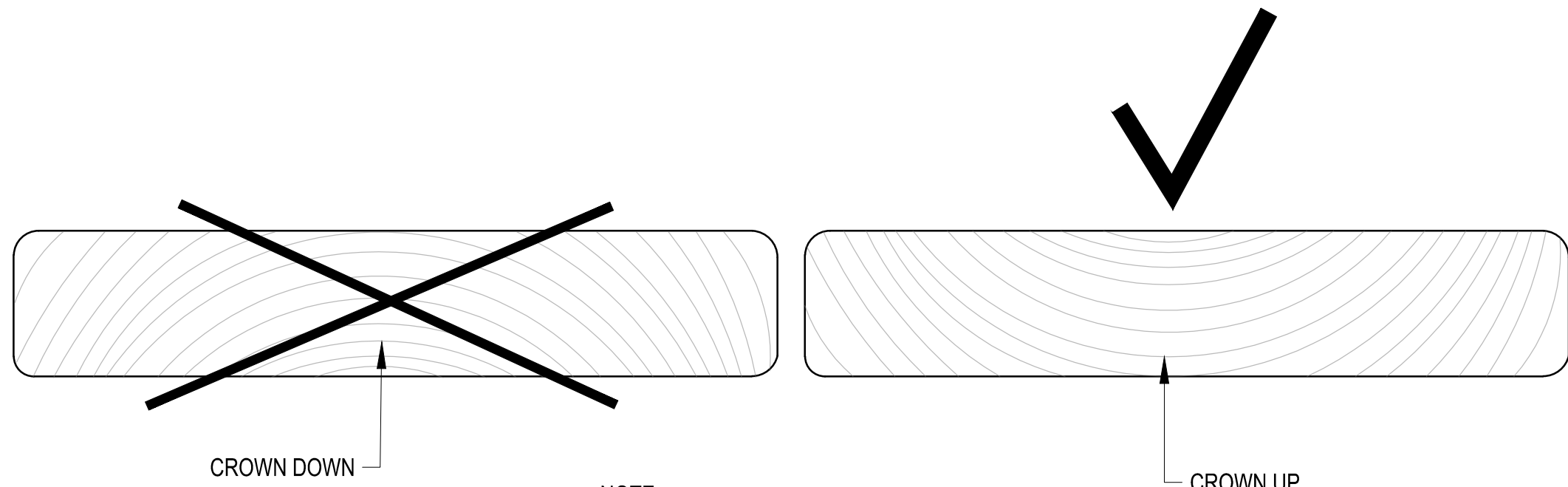


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OPERATIONS REVIEW		RIDGE TRAIL BOARDWALK	
REGIONAL ENGINEER		SOUTHEAST OBSERVATION DETAILS	
A. R. D. APPROVAL		DES. HAO	DATE 08/28
PROJECT NUMBER		DWN. MAL	CHK. THT
F2021397359		PROJ. APP.	SHEET C-05

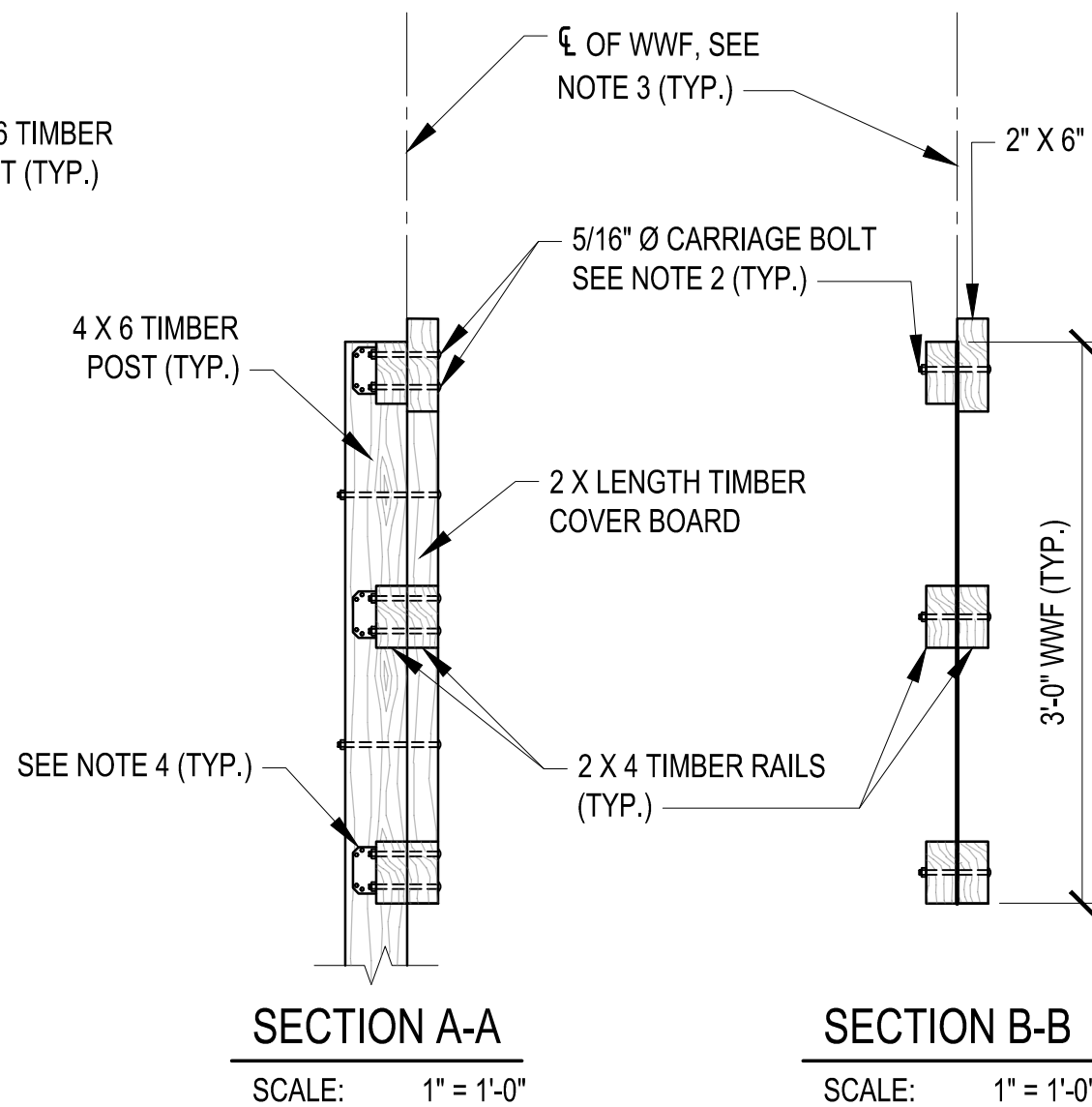
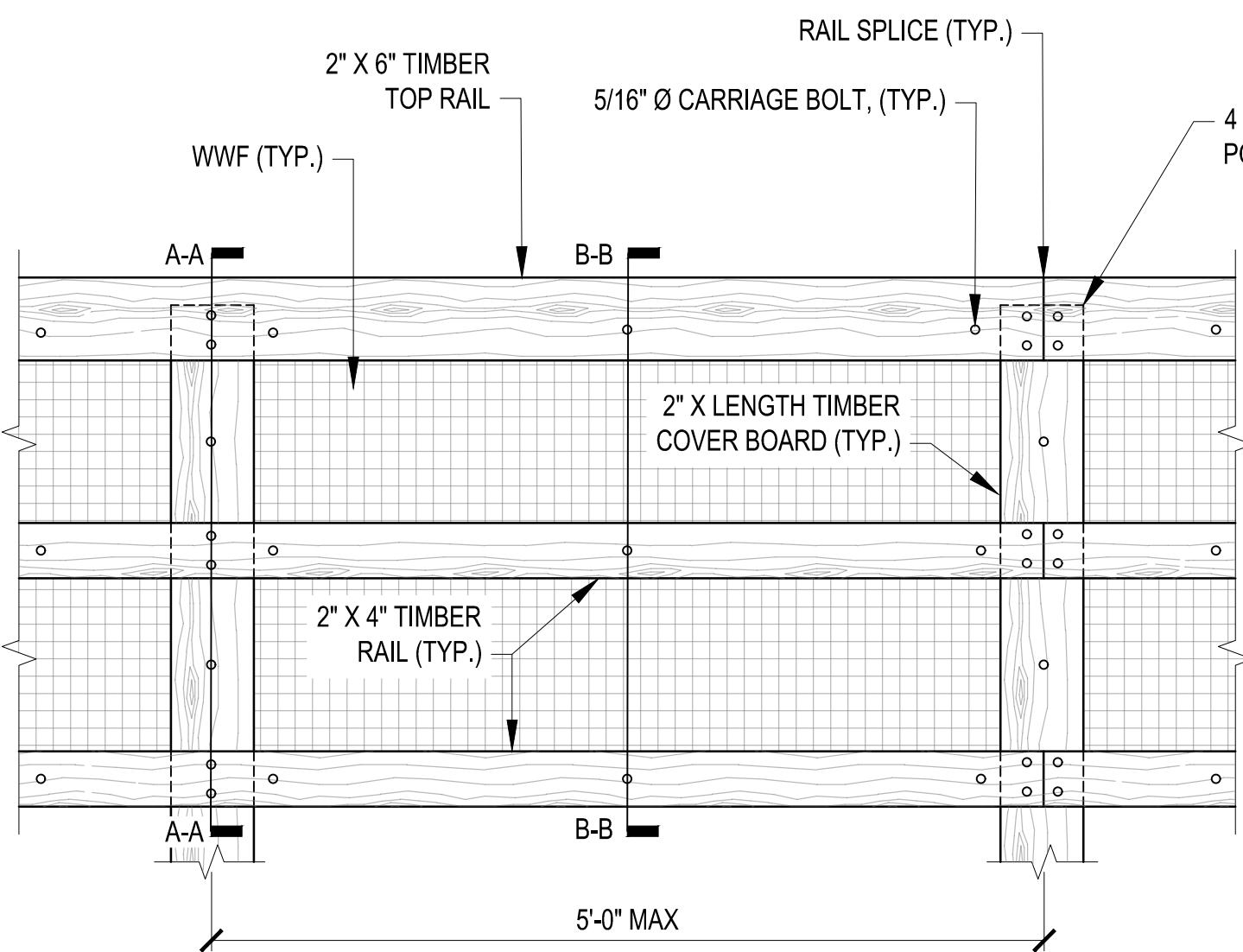


NOTE: 2 SCREWS REQUIRED AT EACH LONGITUDINAL BEAM TO DECK BOARD CONNECTION. SCREWS TO BE INSTALLED IN STRAIGHT LINES.

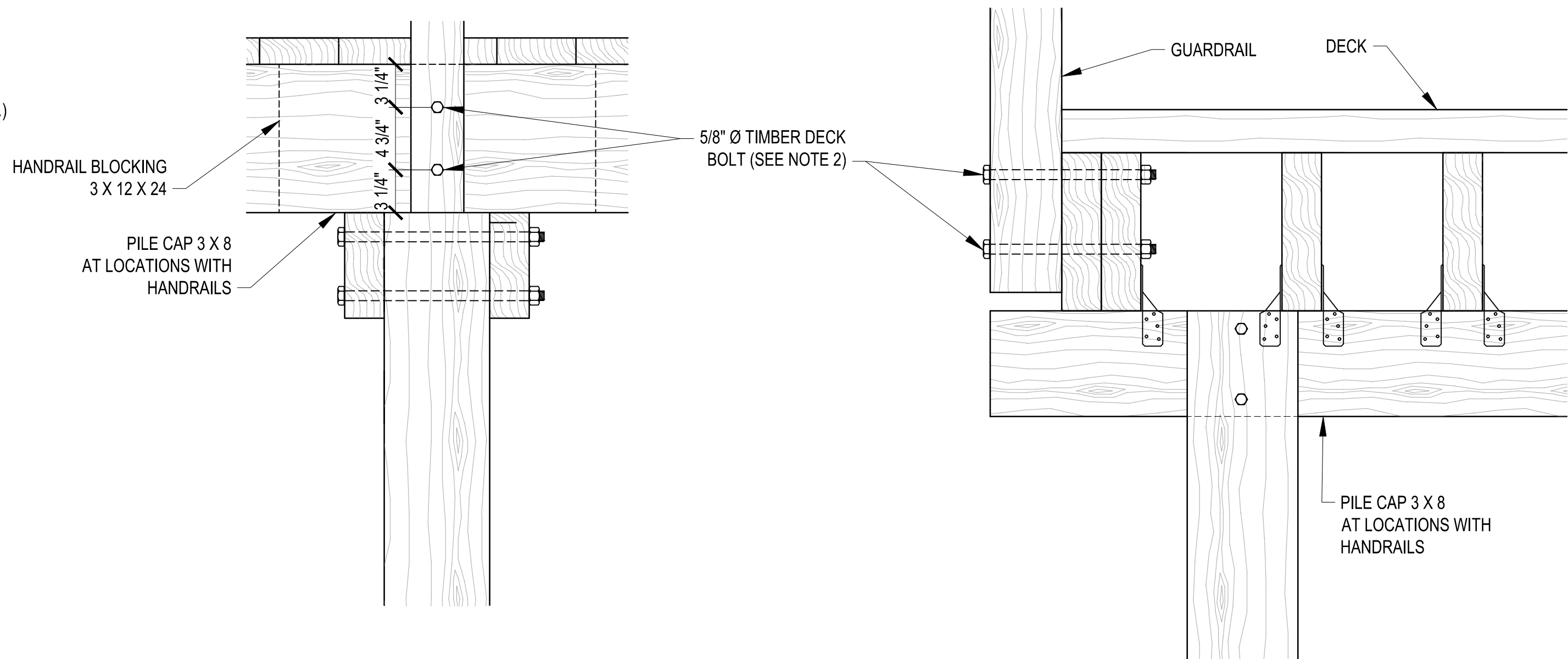
1 DECK DETAILS
C-06 SCALE: 6" = 1'-0"



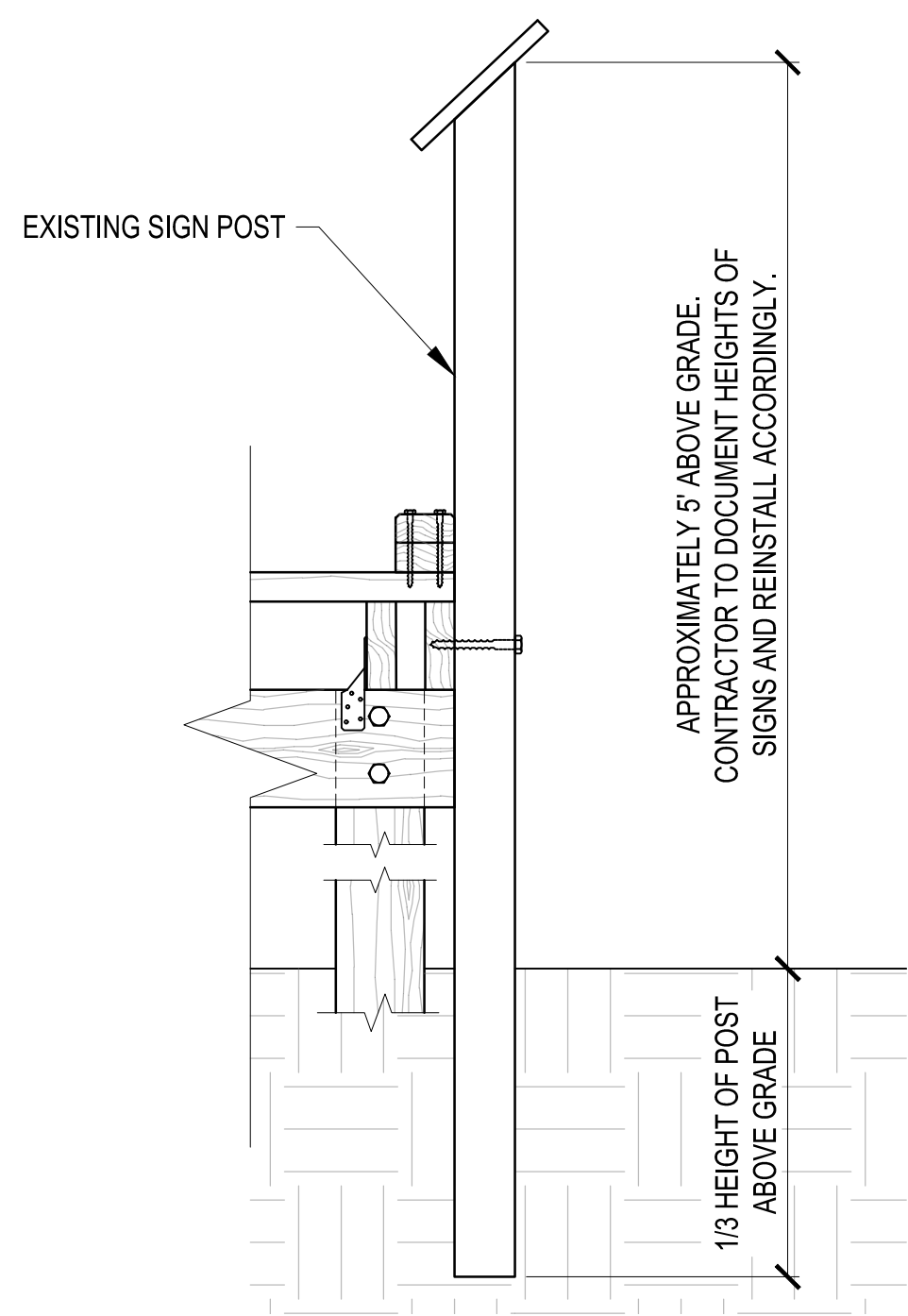
2 DECKING CROWN DETAILS
C-06 SCALE: 6" = 1'-0"



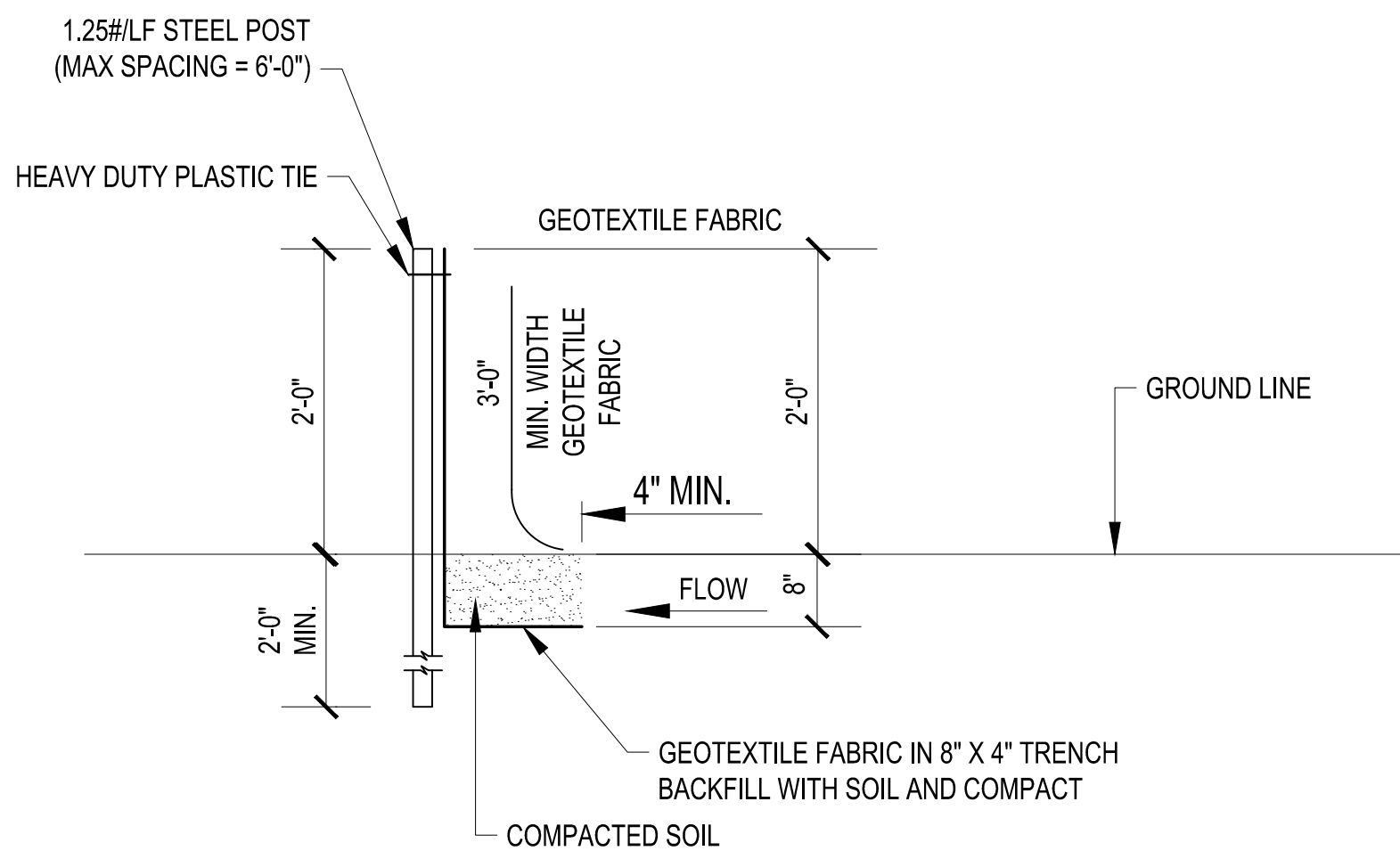
3 TYPICAL GUARDRAIL ELEVATION
C-06 SCALE: 1" = 1'-0"



4 POST DETAILS
C-06 SCALE: 1 1/2" = 1'-0"

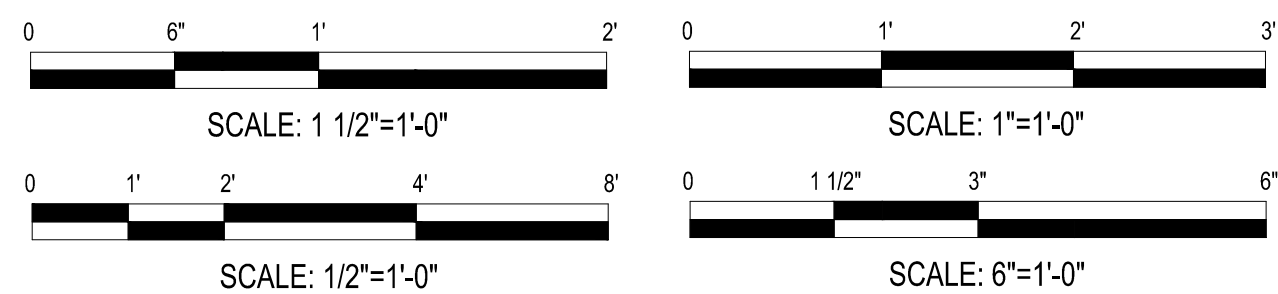


5 SIGN POST DETAIL
C-06 SCALE: 1" = 1'-0"



SIDE ELEVATION

6 SILT FENCE DETAIL
C-06 SCALE: NTS



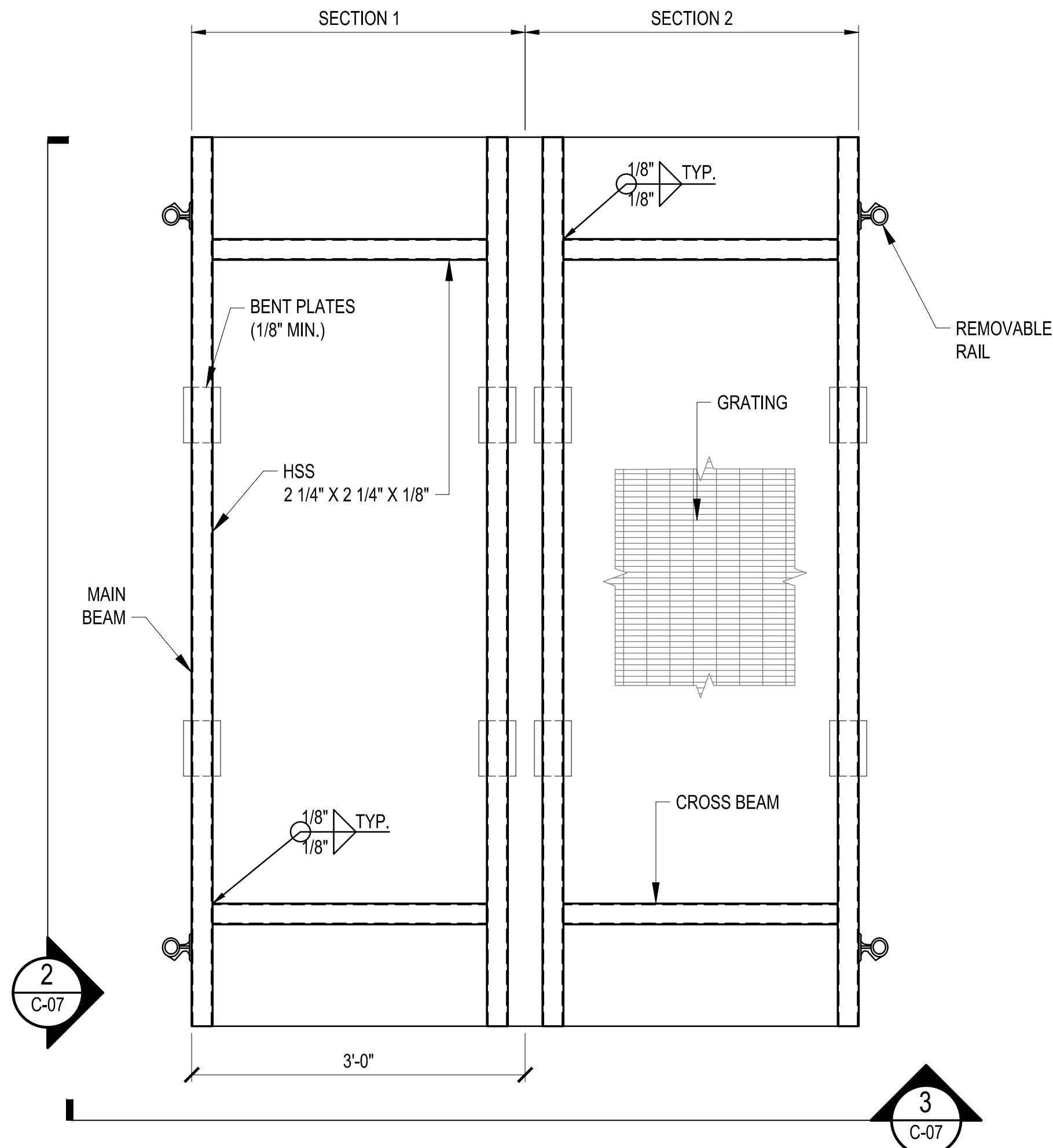
NOTES:

- DO NOT EXTEND BOLTS MORE THAN 1/2" BEYOND NUT. TYPICAL FOR ALL LOCATIONS.
- USE 5/8" Ø TIMBER (DECK) BOLT WITH 2-1/4" Ø DOME HEAD, 3" Ø WASHER AND HEX NUT.
- PROVIDE 10 GAUGE BLACK VINYL-COATED 2 X 2 WELDED WIRE FABRIC. WELDED WIRE FABRIC TO MATCH BOGUE CHITTO PROJECT. SAMPLE SHOULD BE SUBMITTED TO OWNER PRIOR TO MATERIAL PURCHASE. SECURE TO TIMBER INNER RAILS USING STAINLESS STEEL FASTENERS AND NAILS. INSTALL AS RECOMMENDED BY MANUFACTURER.
- FASTEN TIMBER INNER RAILS TO POSTS, USING STAINLESS STEEL ANGLES. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, AS APPROVED BY THE CONTRACTING OFFICER.
- USE 4 BOLTS AT ALL SPLICES FOR EACH 4" X 6" TIMBER POST.

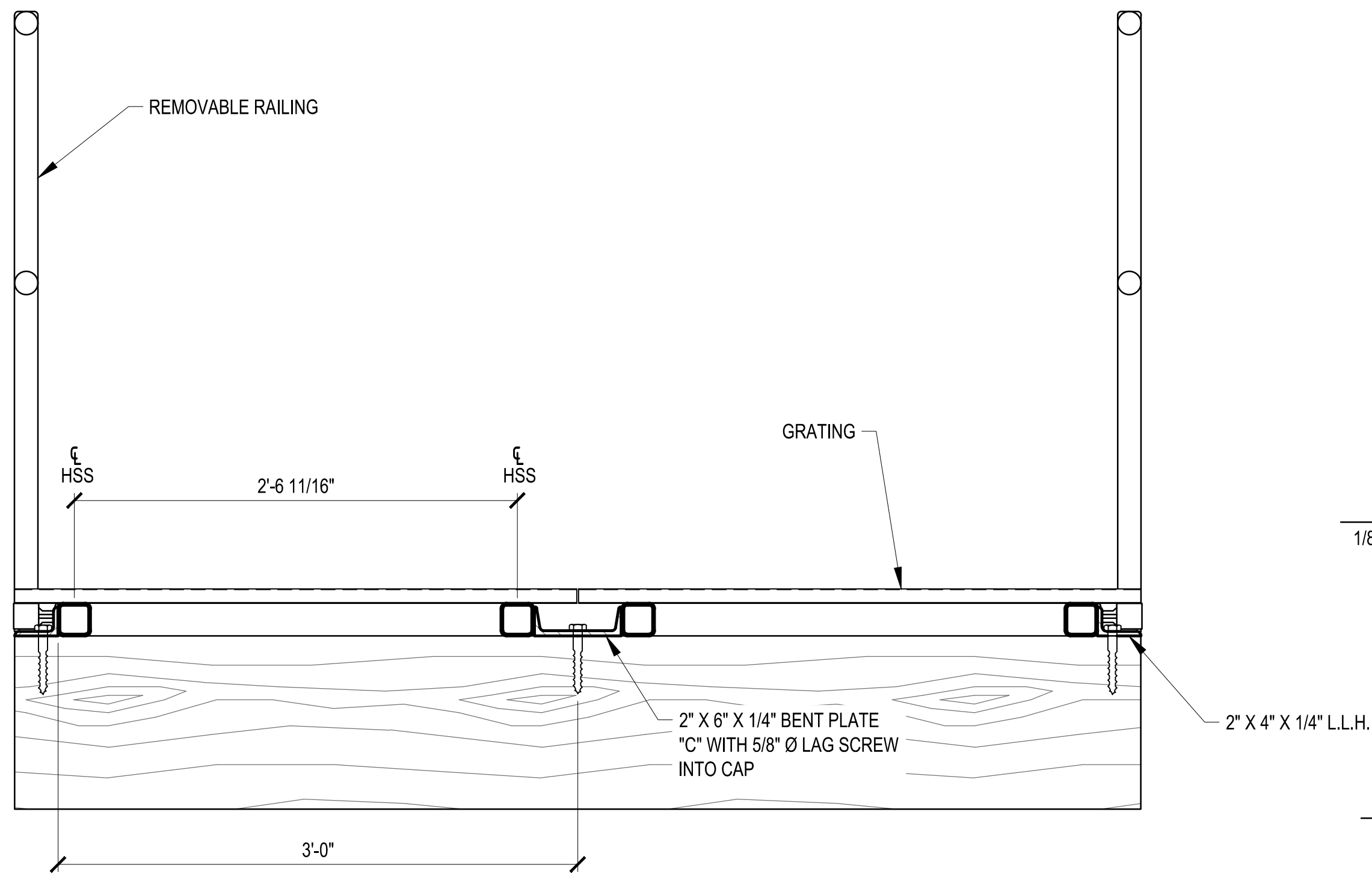


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DATE	REVISIONS
UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE DIVISION OF ENGINEERING SOUTH ATLANTIC-GULF REGION	
S.O. APPROVAL	
OPERATIONS REVIEW	RIDGE TRAIL BOARDWALK
REGIONAL ENGINEER	TYPICAL DETAILS
A. R. D. APPROVAL	DES. HAO DWN. MAL CHK. THT PROJ. APP. DATE 08/28 PROJECT NUMBER F2021397359 SHEET C-06

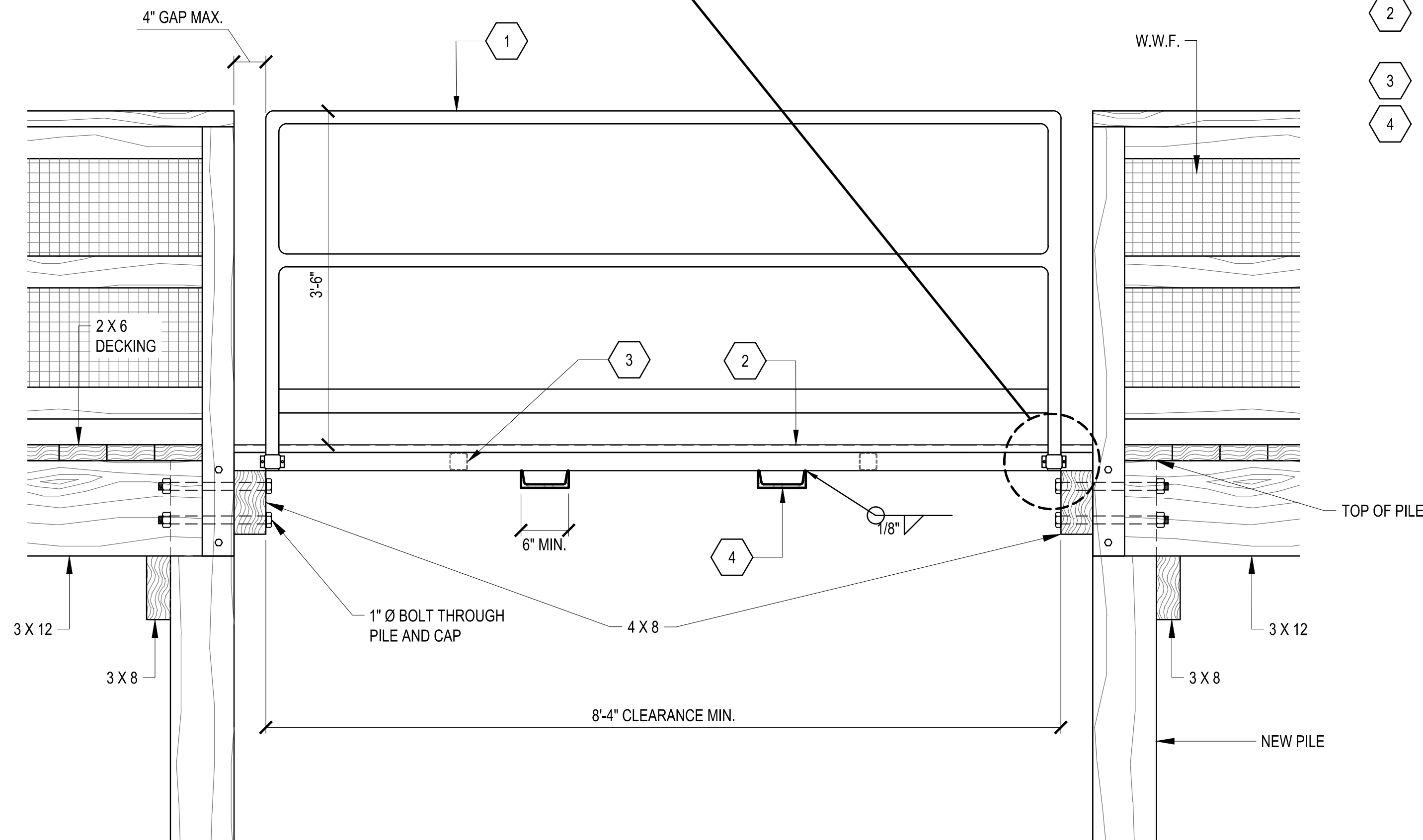
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Aug 28, 2023 8:10am



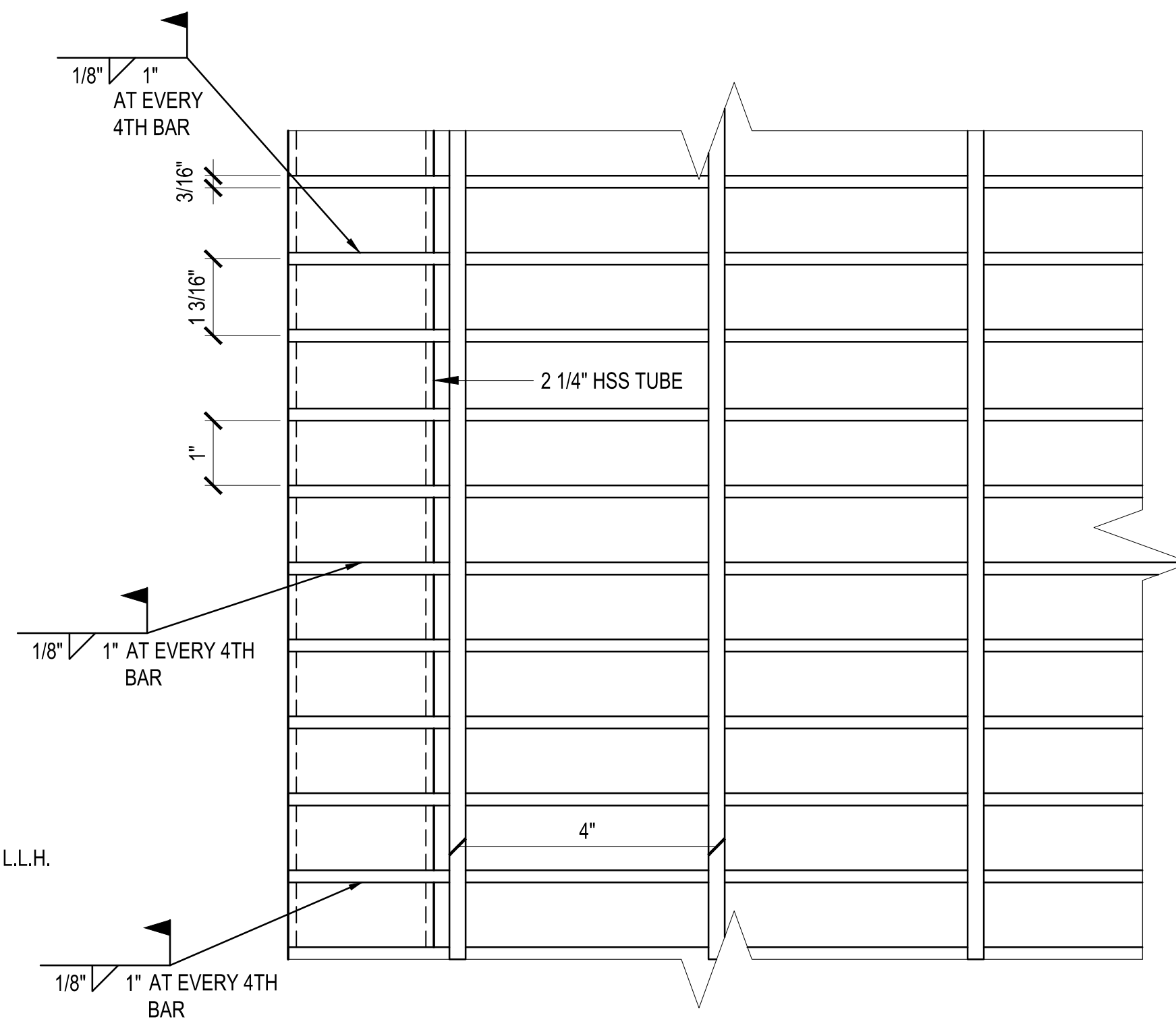
1 STEEL FRAMING PLAN
C-07 SCALE: 1" = 1'-0"



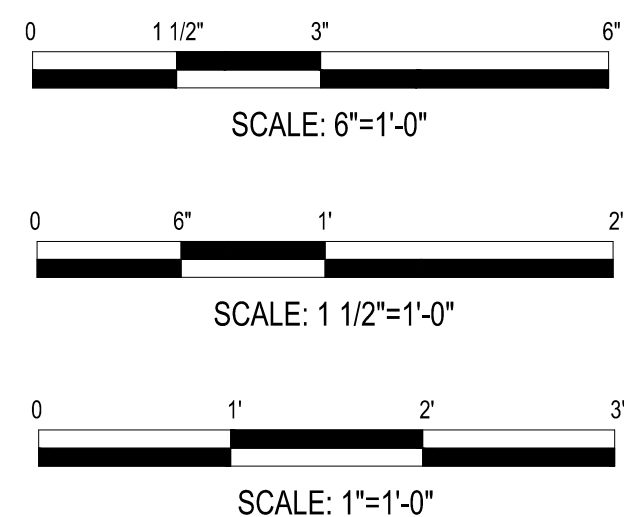
3 SECTION
C-07 SCALE: 1 1/2" = 1'-0"



2 ELEVATION
C-07 SCALE: 1" = 1'-0"



4 BAR GRATING DETAIL
C-07 SCALE: 6" = 1'-0"

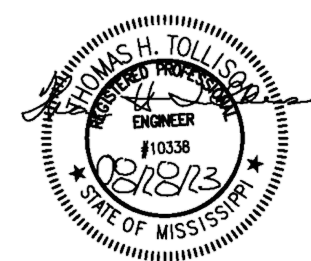



GENERAL NOTES:

- REMOVAL BRIDGE CONSISTS OF (2) DIFFERENT SECTIONS FOR EASE OF REMOVAL WITH FORK LIFT.
- ALL COMPONENTS (HANDRAIL, BAR GRATE, STRUCTURAL STEEL) ARE TO BE HOT DIPPED GALVANIZED.

KEYED NOTES:

- OSHA COMPLIANT REMOVABLE HANDRAIL AND MOUNTS.
- STANDARD-DUTY WELDED, GW-100, 19-W-4, GLAVANIZED STEEL, RECTANGULAR BAR, SMOOTH.
- (4) HSS 2 1/4" X 2 1/4" X 1/8" TUBE.
- BENT PLATES (1/8" MIN.) FOR FORKLIFT (2) TYPICAL EACH HSS. COORDINATE WITH ENGINEER FOR SIZES AND SPACING.



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