

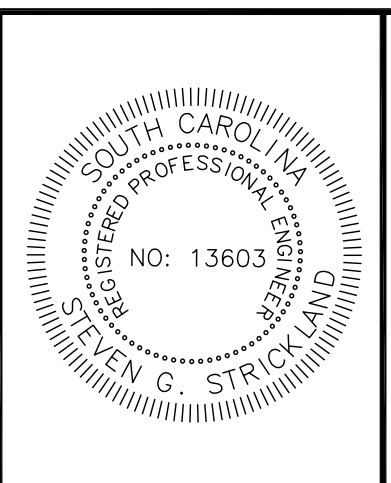
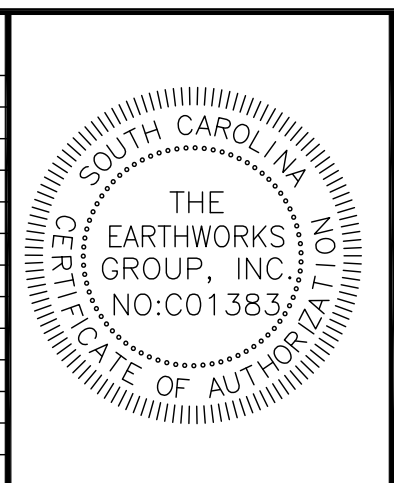
CROSSOVER PLAN VIEW
SCALE: 3/16" = 1'-0"

NOTE:
CONTRACTOR TO VERIFY WALKWAY DIMENSIONS AROUND VEGETATION

1 DRIVE OVER SECTION
SCALE: 3/16" = 1'-0"

2 WALKWAY SECTION
SCALE: 3/16" = 1'-0"

REVISION SCHEDULE			
NO.	DATE	DESCRIPTION	BY
1	10/19/2009	CHANGES VEGETATION	AR
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S1.01
SHEET
OF 3

PROJECT: 4TH_S_ACCESS_REV SURFSIDE 4TH AVE S DRIVE OVER

DATE: 10/19/2009

SCALE: 3/16" = 1'-0"

DESIGNED BY: ----

DRAWN BY: RM

CHECKED BY: SGS

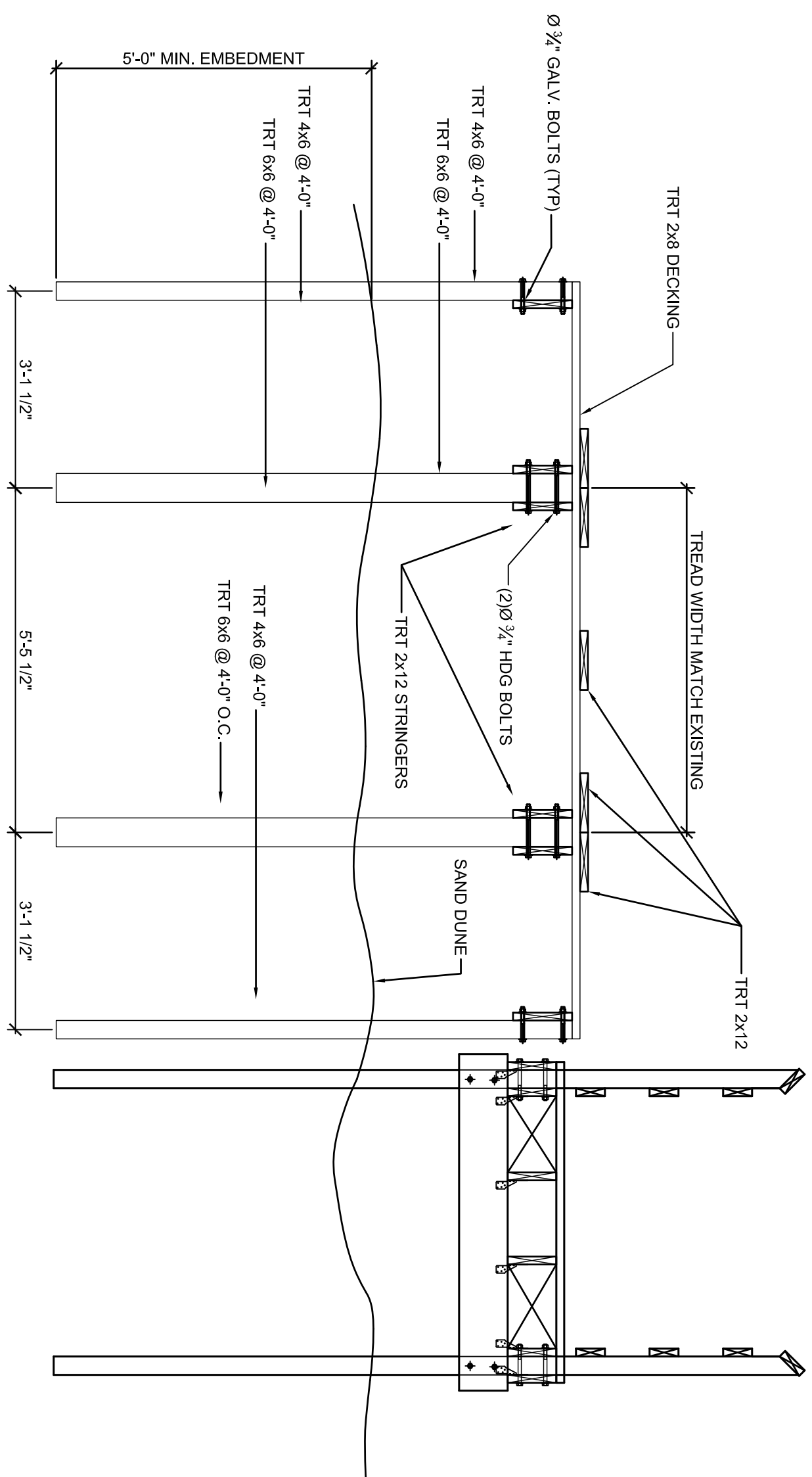
LOCATION: SURFSIDE BEACH SC, 29575

PREPARED FOR: TOWN OF SURFSIDE SURFSIDE BEACH SOUTH CAROLINA, 29575

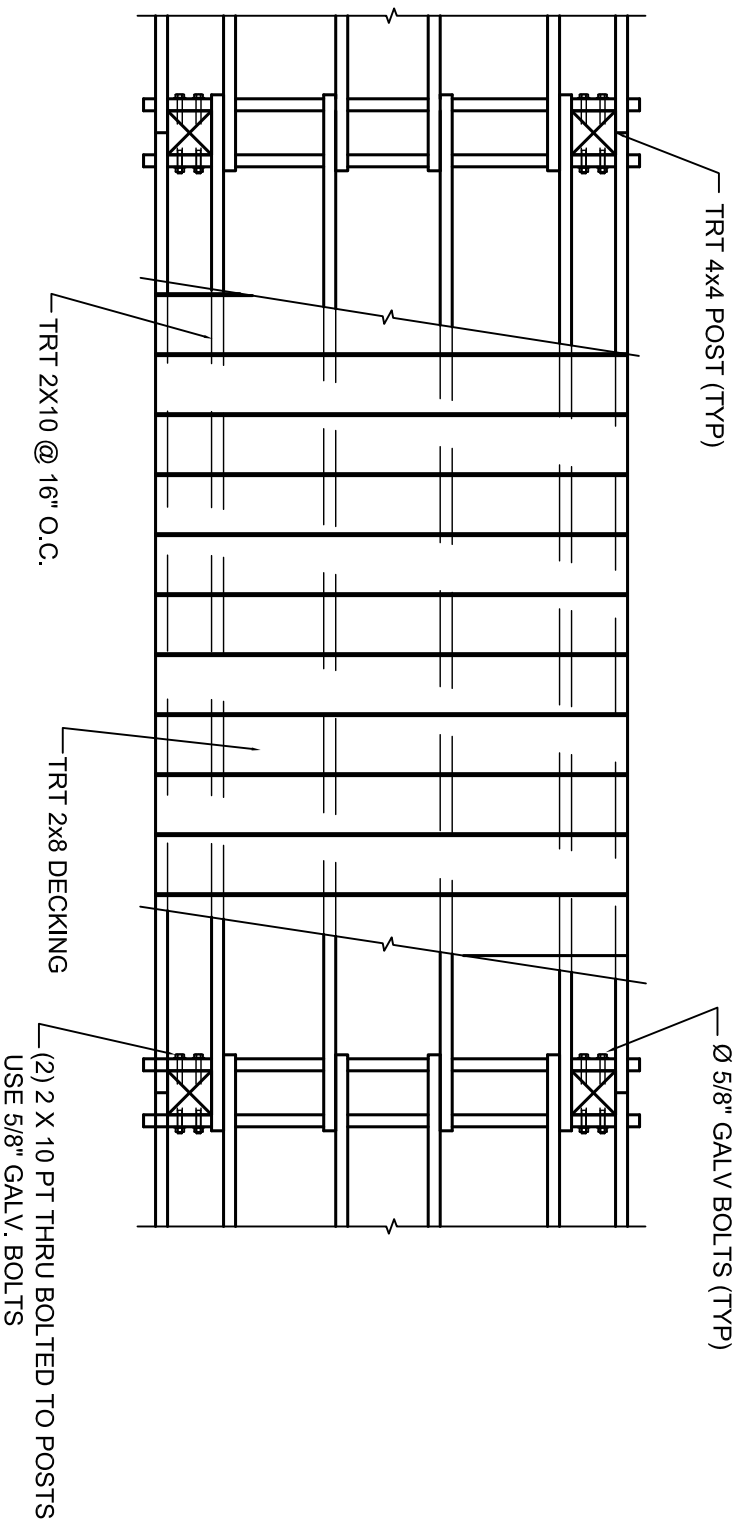
BEACH ACCESS RAMP PLAN AND SECTIONS

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NOTE: OPTIONAL HANDRAIL.
EXTEND THE POST 42" MIN.
ABOVE DECKING FOR HANDRAIL
INSTALLATION

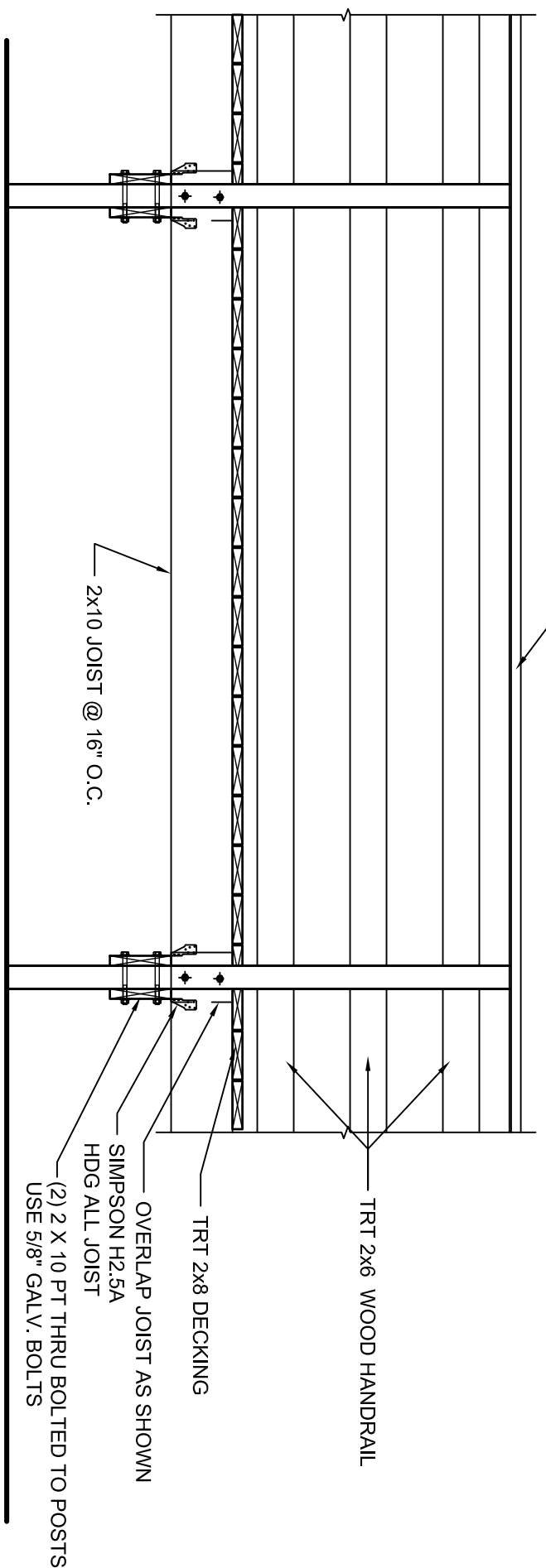


1 DRIVEOVER TYPICAL SECTION

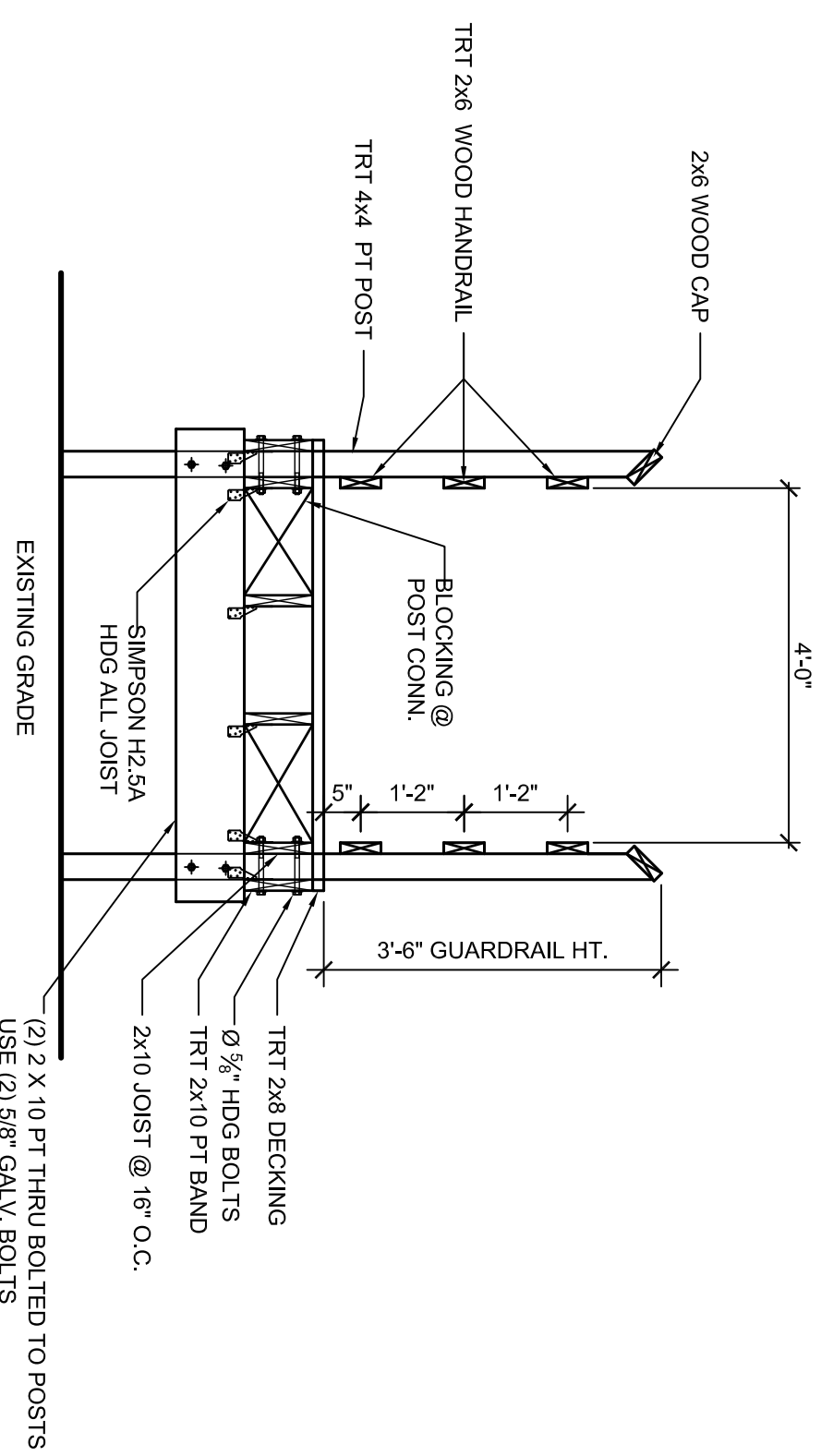


2 WALKWAY TYPICAL PLAN

NOTE ON TREATED LUMBER CONNECTIONS: ALL
NAILS AND BOLTS MUST BE CORROSION RESISTANT.
ALL TREATED LUMBER CONNECTIONS MUST
MAY COME INTO CONTACT WITH TREATED LUMBER.
STAINLESS STEEL (SS) OR OTHER APPROVED
ALTERNATIVE MATERIALS MUST BE USED FOR
ACO TREATMENT CHEMICALS.



3 WALKWAY TYPICAL ELEV.



4 WALKWAY TYPICAL PLAN

REVISION SCHEDULE			BY
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PROJECT: 4TH_S_ACCESS PROJECT: SURFSIDE 4TH AVE S DRIVE OVER

DATE: 3/3/2010 LOCATION: SURFSIDE BEACH SC, 29575

SCALE: 1/2" = 1'-0" PREPARED FOR: TOWN OF SURFSIDE SURFSIDE BEACH SOUTH CAROLINA, 29575

DESIGNED BY: AR

DRAWN BY: RM

CHECKED BY: SGS

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SECTIONS

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STRUCTURAL NOTES:

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT. THE ENGINEER TAKES NO RESPONSIBILITY FOR CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ANY MEETING INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OR ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
2. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER DOES NOT SUPERVISE CONSTRUCTION UNLESS CONTRACTED TO DO SO. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
5. GOVERNING CODE: INTERNATIONAL BUILDING CODE 2006 FOR COMMERCIAL CONSTRUCTION IN ACCORDANCE WITH ASCE 7-02 BUILDING CATEGORY IIb = 1.0; Is = 1.0; W = 1.0; Wp = 1.0
6. WIND DESIGN PARAMETERS
 - a. BASIC WIND SPEED = 140 MPH
 - b. WIND LOAD IMPORTANCE FACTOR = 1.0
 - c. WIND EXPOSURE = EXPOSURE C
 - d. OPEN STRUCTURE $q_{wz} = 0.00$
7. SEISMIC DESIGN PARAMETERS
 - a. DESIGN SPECTRAL ACCELERATION PARAMETERS
 - i. $S_{ds} = 0.798$ $S_{d1} = 0.566$
 - b. SEISMIC USE GROUP = 1
 - c. SEISMIC DESIGN CATEGORY = CATEGORY D
 - d. SITE CLASS = D
8. LOADING
 - a. DECK DEAD LOAD = 20 PSF
 - b. VEHICLE DRIVEWAY (RAMP) LOAD = 250 PSF
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL FLOOR PLANS PRIOR TO CONSTRUCTION. ARCHITECTURAL FLOOR PLANS SHALL GOVERN DIMENSIONS, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DO NOT SCALE DRAWINGS.
10. RESIDENTIAL PROJECTS ARE DESIGNED TO MEET REQUIREMENTS OF 2003 INTERNATIONAL RESIDENTIAL CODE FOR WIND AND SEISMIC LOADS. COMMERCIAL PROJECTS ARE DESIGNED TO MEET REQUIREMENTS OF 2003 INTERNATIONAL BUILDING CODE FOR WIND AND SEISMIC LOADS. SEE ALSO DESIGN CRITERIA.
11. NOTE ON TREATED LUMBER CONNECTIONS: ALL NAILS, BOLTS, SCREWS, AND CONNECTORS THAT MAY COME INTO CONTACT WITH TREATED LUMBER WILL BE HOT-DIPPED GALVANIZED (HDG), STAINLESS STEEL (SS), OR OTHER MATERIALS APPROVED BY THE MANUFACTURER TO MINIMIZE CORROSION CAUSED BY ACP TREATMENT CHEMICALS.

G. STRUCTURAL LUMBER

1. MATERIALS:
 - a. STRUCTURAL LUMBER INCLUDING BEARING AND EXTERIOR WALL STUDS, MINIMUM PROPERTIES OF SPRUCE-PINE-FIR #2, ALLOWABLE STRESSES PER THE NATIONAL DESIGN SPECIFICATION SUPPLEMENT 1997 EDITION, 19% MAX. M.C. OTHER ACCEPTABLE SPECIES INCLUDE HEM-FIR, SOUTHERN PINE, AND DOUGLAS FIR-LARCH.
 - b. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS, WHERE POSSIBLE ALL EXPOSED CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER PRESERVATIVE. ALL JOIST CONNECTIONS SHALL CONTAIN A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M9).
2. SPECIFICATIONS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST EDITION OF:
 - a. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
 - b. U.S. PRODUCT STANDARD PS1
3. CONNECTIONS:

JOISTS TO SIDES OF BEAMS: 16 GA. GALVANIZED STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE.

ALL METAL CONNECTIONS SHALL BE SIMPSON OR USP.

ALL CONNECTORS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS. CONTACT ENGINEER WITH QUESTIONS PERTAINING TO HOLD-DOWNS SPECIFIED ON PLANS.

LOAD VALUES FOR 8d, 10d, 16d AND 20d DESIGNATIONS IN THE FASTENER SCHEDULES THROUGHOUT THIS CATALOG REFER TO A RECOGNIZED NATIONAL STANDARD, SUCH AS ASTM F 1687, AS PRESCRIBED BY THE MODEL BUILDING CODES.

TREATMENT REQUIREMENTS FOR MARINE CONSTRUCTION:

	FRESH WATER	SALT WATER
BELOW WATER MEMBERS		
ROUND PILES	2.5 CCA, 1.0 CCA AWPA UCA5A, 5B, 5C & C3, C18	2.5 CCA, 1.0 CCA AWPA UCA5A, 5B, 5C & C3, C18
SAWN PILES, WALLERS, SHEET PILES, CROSS BRACING	2.5 CCA, AWPA UCA5A, 5B, 5C & C18	2.5 CCA, AWPA UCA5A, 5B, 5C & C18
SPLASH ZONE MEMBERS		
SPRIT PILES, CUES & STRINGERS	0.40 ACO, 0.21 CA, AWPA UCA1C & C2, 0.16 MCA	0.60 ACO, 0.6 CCA, AWPA UCA5A, 5B, 5C & C18 0.24 MCA
ABOVE WATER MEMBERS		
DECKING, HANDRAILS, WALLCAPS	0.25 ACO, 0.10 CA, AWPA UCA5B & C2, 0.07 MCA	0.40 ACO, 0.21 CCA, AWPA UCA5B & C18, 0.19 MCA

TIMBER STRUCTURE SPECIFICATION NOTES

ALL TIMBER FOR DECKING, JOISTS, POSTS, POST BLOCKS, GUARD RAILS SHOULD BE SOUTHERN PINE #1 KDAT. ALL TIMBER SHOULD BE PRESERVATIVELY TREATED TO AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD UIC-21. IF THE BRIDGE IS BUILT TO VEHICULAR STANDARDS, SOUTHERN PINE PRESERVATIVELY TREATED TO AWPA COMMODITY STANDARD C-14 (USE CATEGORY UC4 OR 5), WOOD FOR HIGHWAY CONSTRUCTION MAY BE APPLICABLE.

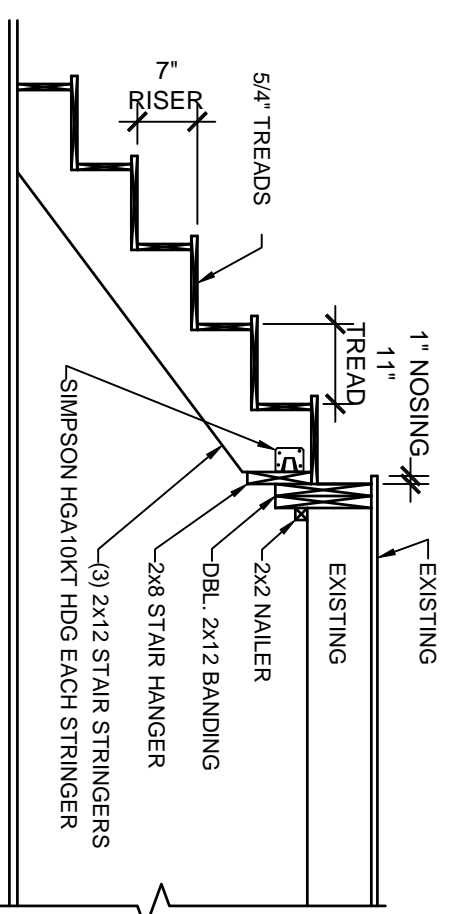
ALL FACE AND ANCHOR PILES USED IN CONSTRUCTION SHOULD BE SPECIFIED IN ACCORDANCE WITH ASTM D65. PRESERVATIVE TREATMENT SHALL BE TO AWPA STANDARDS C3 & C18 (UC4C, 5A, 5B, 5D).

ALL FASTENERS AND THE RODS SHOULD BE HOT-DIP GALVANIZED PER ASTM A-153 OR BE CORROSION RESISTANT (BITUMASTIC COATED OR 300 SERIES STAINLESS STEEL).

ALL CUTS, HOLES AND INJURIES TO THE SURFACE OF TREATED WOOD SHOULD BE FIELD PROTECTED BY FIELD TREATMENT MEETING AWPA STANDARD M4.

ALL TREATED WOOD PRODUCTS SHOULD BE HANDLED AND FIELD FABRICATED IN ACCORDANCE WITH AWPA STANDARD M4 FOR THE CARE OF PRESERVATIVE TREATED WOOD PRODUCTS.

FOR FURTHER INFORMATION ON FRESH AND SALTWATER SPECIFICATIONS, CONSULT THE AWPA BOOK OF STANDARDS AND OTHER PUBLICATIONS.

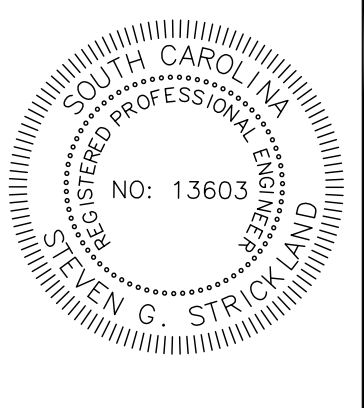


NOTE:
ALL LUMBER SHALL BE PRESSURE TREATED.
ALL CONNECTIONS TO BE STAINLESS STEEL OR HDG.

STAIR CONNECTION DETAIL
SCALE: 1/4" = 1'-0"

REVISION SCHEDULE

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PROJECT: 4TH_S_ACCESS	PROJECT: SURFSIDE 4TH AVE S DRIVE OVER
DATE: 10/19/2009	LOCATION: SURFSIDE BEACH SC, 29575
SCALE: 1/4" = 1'-0"	PREPARED FOR: TOWN OF SURFSIDE SURFSIDE BEACH SOUTH CAROLINA, 29575
DESIGNED BY: ---	STRUCTURAL NOTES
DRAWN BY: RM	
CHECKED BY: SGS	

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OF 3