

 $\frac{3}{4}'' = 1' - 0''$ 

	REVISIONS	4 RELEASE FOR BID 04 / 01 / 2024						
	COASTAL STRUCTURAL ENGINEERING PC COASTAL STRUCTURAL ENGINEERING, PC WILLIAM DZURICK 415 WB MCLEAN DR CAPE CARTERET, NC 28584							
	Town of Emerald Isle	arteret County	FEMA- PUBLIC ACCESS WALKWAY	DETAILS				
THESE DRAWINGS HAVE BEEN PREPARED BY OTHERS.	SEAL 044686 04/03/24 FIRM REGISTRATION C-487							
	ISSUED FOR: BIDS DATE: 01/17/2024 DESIGNED BY: WAD DRAWN BY: MKF CHECKED BY: WAD PROJECT NO.: 3496-A							
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#### GENERAL

- CONSTRUCTION CONFORMS WITH CHAPTERS 45 AND 46.
- VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. DO NOT SCALE THESE DRAWINGS.
- 3. THESE DRAWINGS RESPRESENT THE COMPLETED STRUCTURE AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTIONS.
- THOSE DEPICTED, NOTIFY THE TOWN OF EMERALD ISLE.

### **DESIGN LOADS**

WALKWAYS AND STAIRS = 100 PSF LIVE LOAD, 10 PSF DEAD LOADGROUND SNOW LOAD = 10 PSF WIND LOADS BASED ON ASCE 7 -16. VULT = 150 MPH, VASD = 113 MPH, CATEGORY II, EXPOSURE C.

### FOUNDATIONS

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. DESIGN IS BASED ON ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF PER IBC. CONTACT A GEOTECHNICA ENGINEER IF UNSUITABLE CONDITIONS ARE FOUND. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL MATERIAL. THE BUILDING OFFICIAL SHALL INSPECT THE FOOTINGS AND FOUNDATIONS PRIOR TO RECOMMEND THE OWNER RETAIN A GEOTECHNICAL ENGINEER TO EVALUATE THE SOIL CONDITIONS AND VERIFY SOIL BEARING PRESSURE CAPACITY.

### PILES

TREATED TIMBER PILES SHALL CONFROM TO THE LATEST REVISION OF ASTM D-25 AND SHALL BE INSTALLED IN CONFORMANCE WITH SECTION R4603 OF THE BUILDING CODE. PILES SHALL BE OF SOUTHERN PINE OR DOUGI TIMBER PILES SHALL BE PRESERVATIVE TREATED. TREATED. TREAT CUT ENDS AND DRILLED HOLES OF TREATED TIMBER PILES WITH THE SAME PENETRATING PRESERVATIVE AS BASE TREATMENT CHEMICAL. ALL PILES SHALL BE DRIVEI NATURAL GRADE UNLESS NOTED OTHERWISE.

PILES ARE REQUIRED TO HAVE THE FOLLOWING ULTIMATE CAPACITIES:

- COMPRESSION 11,000 LBS
- TENSION 3,900 LBS
- LATERAL 1,000 LBS

IT IS RECOMMENDED THAT THE OWNER RETAIN A REGISTERED GEOTECHNICAL ENGINEER TO DETERMINE AND VERIFY CAPACITIES. CONTACT THE STRUCTURAL ENGINEER IF THE CAPACITIES ARE LESS THAN THOSE NOTED.

## CONCRETE

- 1. ALL CONCRETE SHALL BE READY MIXED PER ASTM C94 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. CEMENT PER ASTM C150, TYPE II.
- 2. ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET.

# **ROUGH CARPENTRY AND PLYWOOD**

- 1. ALL FRAMING PER IBC CHAPTER 23.
- ALL SAWN LUMBER SHALL BE SYP #2 OR BETTER UNLESS NOTED OTHERWISE.
- ALL HARDWARE PER THE MANUFACTURER'S RECOMMENDATIONS.
- 4. ALL EXTERIOR LUMBER SHALL BE PREASURE TREATED.
- 5. ALL CLIPS, CONNECTORS, ETC SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR EQUIVALENT.
- 6. ALL CONNECTORS AND HARDWARE, INCLUDING BOLTS, NUTS AND WASHERS, SHALL BE TYPE 316 STAINLESS STEEL.
- 7. USE SCREWS, NOT NAILS, AT CONNECTIONS FOR ALL SURFACES EXPOSED TO THE PUBLIC REACH WITHIN THE WALKWAY.

## WOOD DECKS, STAIRS, AND RAMPS

- 2. PROVIDE CROSS BRACING AT ALL DROPPED GIRDERS GREATER THAN 48" MEASURED FROM LOWEST ADJACENT FINISHED GRADE TO TOP OF DECKING.
- 3. COORDINATE THE RISE AND RUN OF THE STAIRS WITH THE TOWN OF EMERALD ISLE. STAIR RISER HEIGHTS SHALL BE 7' MAXIMUM AND TREAD DEPTHS SHALL BE 11 INCHES MINUMUM.
- DECKINS SURFACE.
- 6. PICKETS SHALL BE 2X2 SPACED SUCH THAT A 4" SPHERE CANNOT PASS THROUGH. ATTACH EACH PICKET WITH (2) #10 X 3" SCREWS IN PRE-DRILLED HOLES AT TOP AND BOTTOM.

1. ALL CONSTRUCTION SHALL CONFORM WITH THE 2018 NC RESIDENTIAL BUILDING CODE, WITH LOCAL AMENDMENTS. THIS STRUCTURE IS LOCATED IN A 150 MPH WIND ZONE. THE CONTRACTOR SHALL BE FAMILIAR WIT

4. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. COORINDATE EXACT ELEVATIONS AND LOCATIONS WITH THE TOWN OF EMERALD ISLE. WI

3. ALL FRAMING SHALL PROVIDE A CONTINUOUS LOAD PATH FROM THE DECK TO THE FOUNDATIONS. THE CONTRACTOR SHALL PROVIDE HANGERS, STRAPS, CONNECTORS, ETC NOT SHOWN THAT ARE REQUIRED TO ENSU

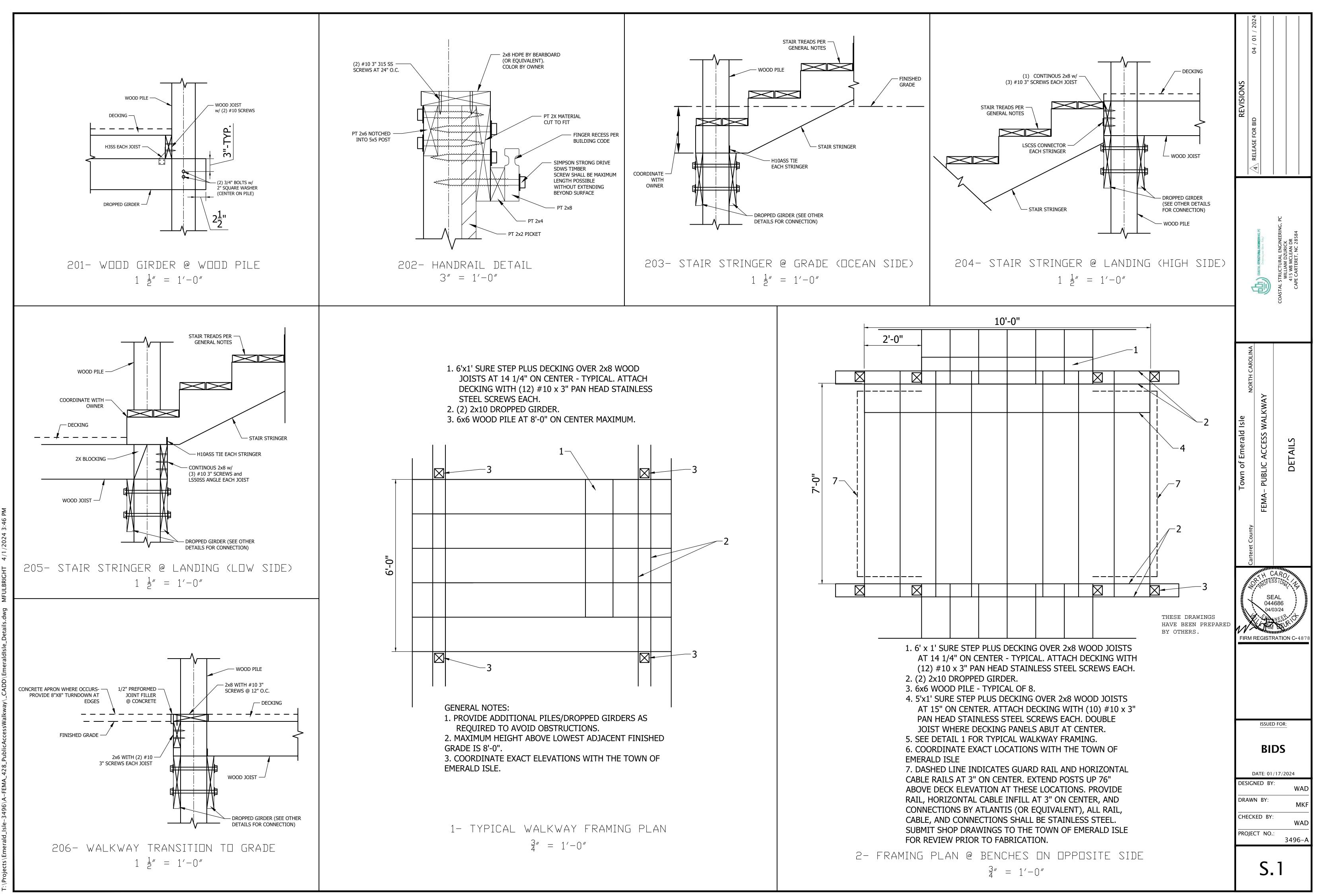
1. WOOD DECKS, STAIRS AND RAMPS SHALL BE ASSEMBLED AND FABRICATED BY QUALIFIED CARPENTERS. ALL DECKS, STAIRS AND RAMPS SHALL BE SUPPORTED BY WOOD PILES AND GIRDERS AT NO MORE THAN 8'-0" ON (

4. STAIR STRINGERS SHALL BE 2X12 AT 9" ON CENTER. DOUBLE STRINGERS AT EDGES. MAXIMUM NOTCH (AS MEASURED PERPENDICULAR TO THE STRINGER PLANE) SHALL NOT EXCEED 5 ¾".

5. STAIR TREADS SHALL BE 2X6 SQUARE-EDGE TREX TRANSCEND BOARDS, OR EQUIVALENT, COLOR BY OWNER. ATTACH EACH TREAD TO EACH STRINGER WITH (2) #10 X 3" MURO T-SCREW TORX STAINLESS STEEL SCREWS E

7. RAMPS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE). THE MAX RISE FOR ANY RAMP RUN SHALL BE 30 INCHES. PROVIDE LANDINGS PER SECTION 8. DECKING SHALL BE SURE-STEP PLUS BY PERSPECTIVE PRODUCTS. LENGTH AND LAYUP AS SPECIFIED ON PLANS. COORDINATE SPACING AND LOCATION OF PILES SUCH THAT FULL 1' WIDE SECTIONS OF DECKING ARE USED.

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HERE FIELD CONDITIONS DIFFER FROM					
AL ENGINEER AND THE STRUCTURAL O THE PLACEMENT OF CONCRETE. WE LAS FIR, ROUGH SAWN. ALL TREATED N TO A MINIMUM DEPTH OF 8' BELOW		7	COMSTRUCTURAL ENFORCEMING, PC	COASTAL STRUCTURAL ENGINEERING, PC WILLIAM DZURICK 415 WB MCLEAN DR CAPE CARTERET, NC 28584	
RE THIS PATH IS CONTINUOUS. INSTALL		Town of Emerald Isle NORTH CAROLINA	FEMA- PUBLIC ACCESS WALKWAY	GENERAL NOTES	
CENTER. EQUALLY SPACE SUPPORTS.	THESE DRAWINGS HAVE BEEN PREPARED BY OTHERS.	SEAL 044686 04/03/24 FIRM REGISTRATION C-4878			
EACH STRINGER INSTALLED FLUSH WITH					
1012.6 OF THE 2018 BUILDING CODE.		ISSUED FOR: BIDS DATE: 01/17/2024 DESIGNED BY: WAD DRAWN BY: MKF CHECKED BY: WAD PROJECT NO.: 3496-A			
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1- TYPICAL WALKWAY FRAMING PLAN  
$$\frac{3}{4}'' = 1'-0''$$