MINIMUM DESIGN LOADS: PER 2018 NC RESIDENTIAL BUILDING CODE / 2015 IRC WITH NC AMENDMENTS

SUNROOM CATEGORY II (PER 2015 IRC R301.2.1.1.1 & AAMA / NPEA / NSA 2100)

NOTE: COMPONENTS HAVE BEEN CHECKED AGAINST DESIGN LOADS SHOWN & FOUND TO BE ACCEPTABLE STRUCTURALLY

DEAD LOADS:

- 1. WALLS: 6 PSF
- 2. FLOOR: 12 PSF

SNOW LOADS: GROUND SNOW LOAD 20 PSF

ULTIMATE DESIGN WIND SPEED: 117 MPH, 3 SEC. GUSTS

LIVE LOADS: FLOOR: 40 PSF

DEFLECTION LIMITS:

- 1. WALLS: L/175
- 2. FLOOR: L/240 (TOTAL LOAD), L/360 (LIVE LOAD)

ALLOWABLE SOIL PRESSURE CONSIDERED (PRESUMPTIVE) = 2000 PSF

THIS THERMALLY ISOLATED SUNROOM IS UNCONDITIONED AND NOT HABITABLE

NOTE: THIS STRUCTURE HAS BEEN EVALUATED FOR VERTICAL AND LATERAL LOADS REQUIRED BY THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

SQUARE FOOTAGE OF SUNROOM = 192

NOTES:

- 1. ALLVIEW (AVI) SUNROOM; WHITE IN COLOR
- 2. CONSTRUCT SUNROOM ON EXISTING DECK AND UNDER NEW DECK
- 3. ELECTRICAL BY GDI
- 4. CONCRETE
 - A) CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
 - B) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. EXTERIOR FLOORS AND EXPOSED CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AND 5% TO 7% AIR ENTRAINMENT.
- 5. WOOD
 - A) MATERIALS FRAMING LUMBER
 - i) WOOD POSTS: NO. 2 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
 - ii) 2x8, 2x10, 2x12 NO. 2 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
 - B) WOOD MEMBERS SHALL BE PRESSURE-TREATED FOR THE FOLLOWING CONDITIONS:
 - i) IN DIRECT CONTACT WITH THE GROUND
 - ii) SILLS OR PLATES ON CONCRETE WITHIN 8" OF FINISHED GRADE
 - iii) JOISTS AND SUBFLOORS WITHIN 18" OF FINISH GRADE AND BEAMS WITHIN 12" OF FINISH GRADE
 - iv) EXPOSED EXTERIOR DECKS
 - C) FASTENERS

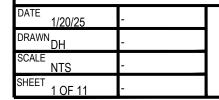
ALL FASTENERS AND HARDWARE USED TO CONNECT TO PRESSURE TREATED WOOD MEMBERS SHALL EITHER BE 304 OR 316 STAINLESS STEEL, OR HOT DIPPED GALVANIZED PER ASTM-A653 COATING DESIGNATION G-185 AND ASTM-A153

- 6. STRUCTURAL ALUMINUM
 - A) ALL EXTRUSIONS SHALL BE COMMERCIAL GRADE ALUMINUM SUPPLIED BY GREAT DAY IMPROVEMENTS, LLC.
 - B) ROOF PANELS SHALL BE 3" OR 6" THICK SUPER FOAM ROOF PANELS FACED WITH A 0.024" ALUMINUM SKIN TOP AND BOTTOM.
- 7. THIS SUNROOM IS CONSIDERED AS NON-CONDITIONED SPACE, EXEMPT FROM ENERGY REQUIREMENTS (PER 2015 IRC SECTION N1102.1, NOTE 2)

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PATIO ENCLOSURES, RALEIGH
ISAACS RESIDENCE

SHEET#	DESCRIPTION	
1	COVER	
2	ELEVATION "B" WALL	
3	ELEVATION "A" & "C" WALL	
4	DECK PLAN	
5	DECK PLAN	
6	ELECTRICAL PLAN	
7	FLOOR PLAN	
8	ROOF PLAN	
9	SYSTEM DETAILS	
10	SYSTEM DETAILS	
11	SYSTEM DETAILS	

SEAL Q49195

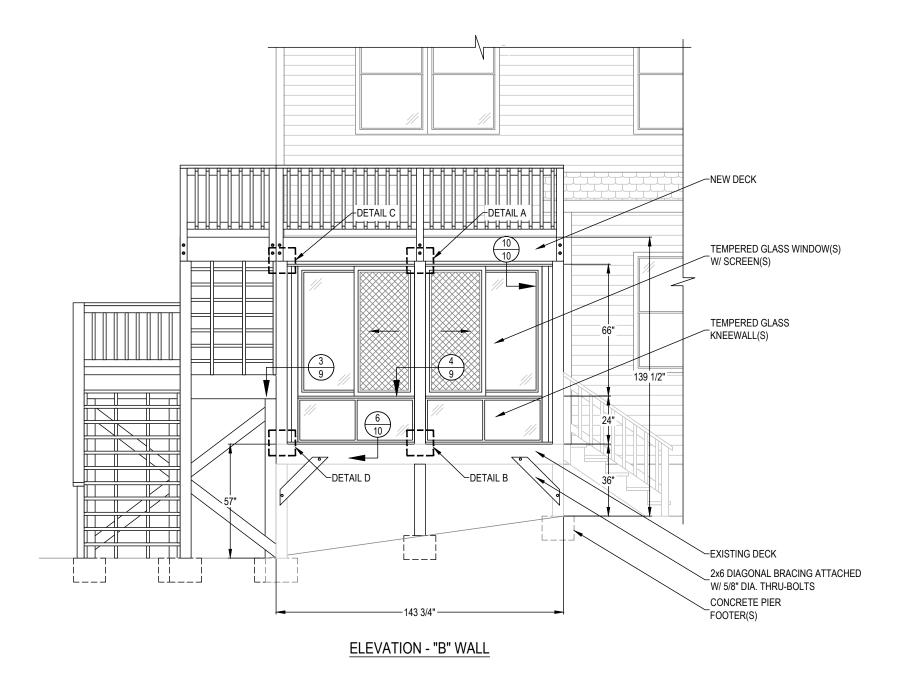


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951 AVIATION PKWY, SUITE 1000
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984-212-8850





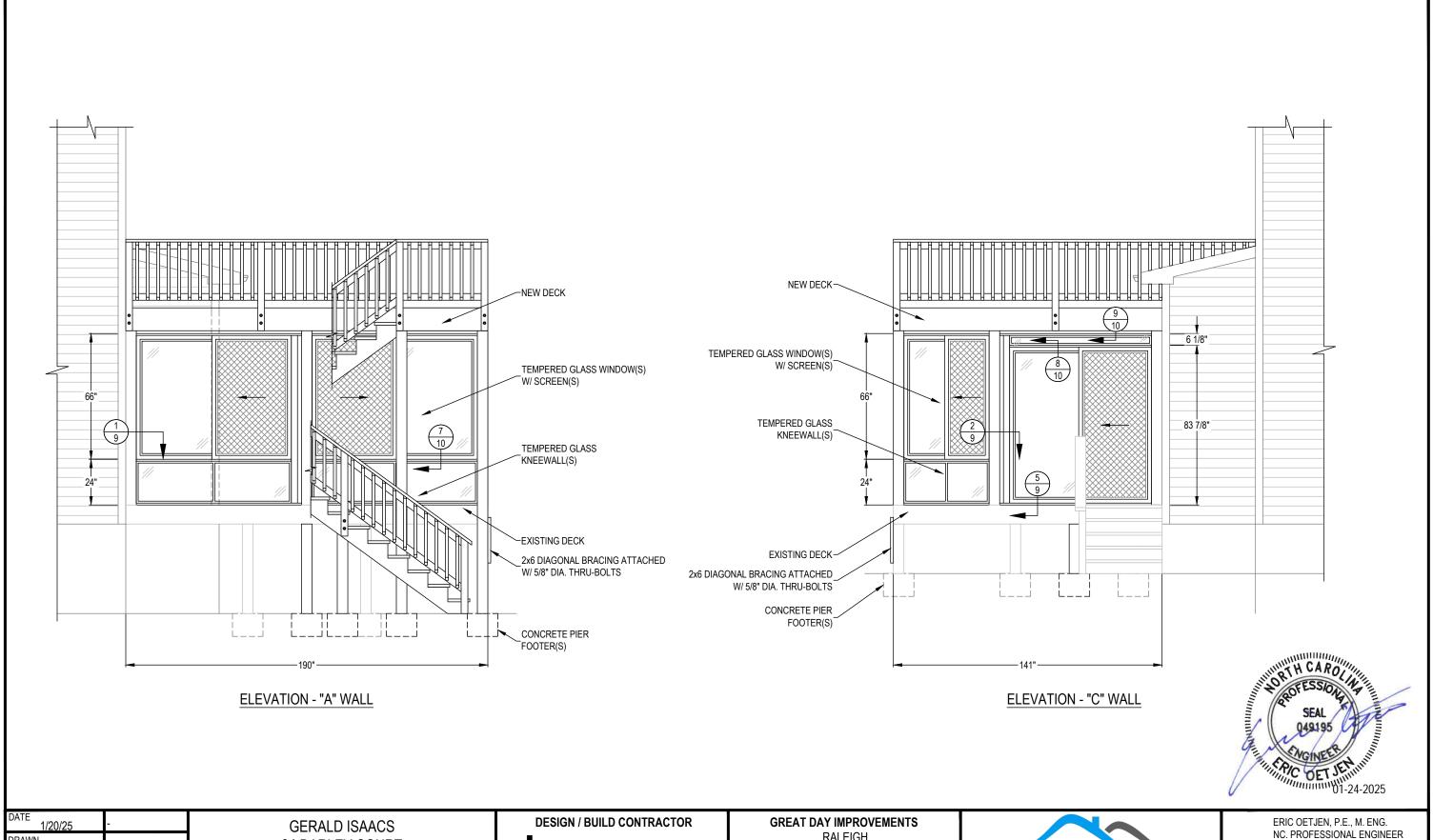
DATE 1/20/25	-
DRAWN DH	-
SCALE 1/4" = 1'-0"	-
SHEET 2 OF 11	-

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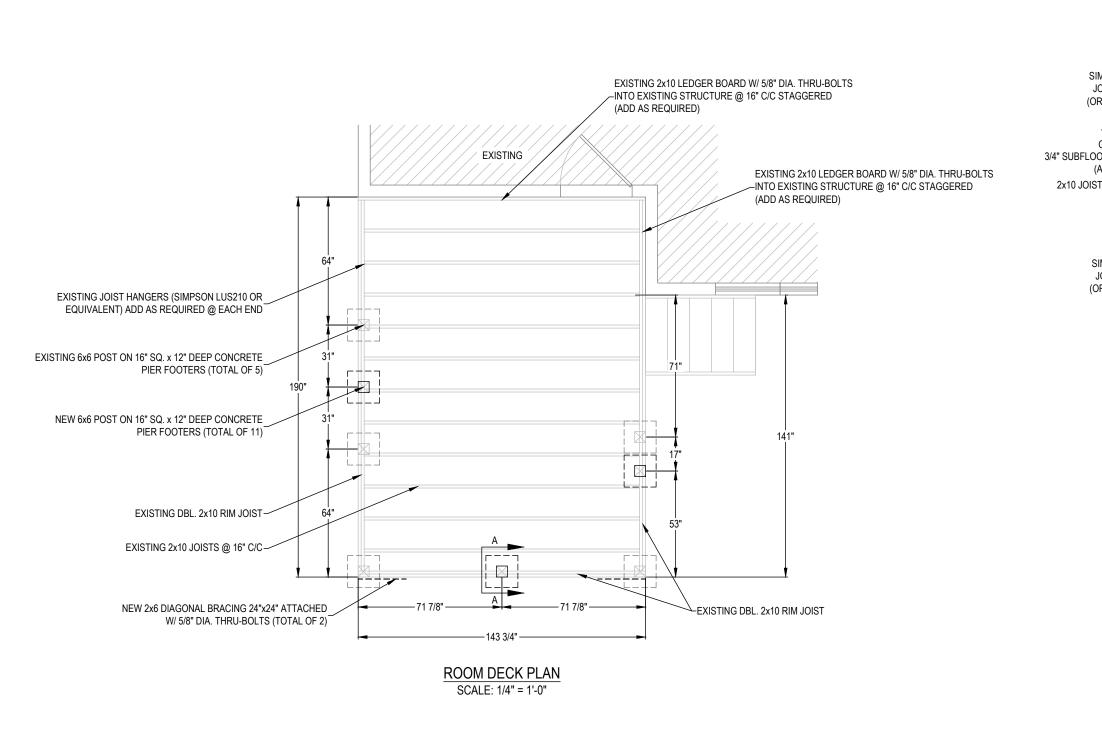
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SCALE 1/4" = 1'-0"
SHEET 3 OF 11 -

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-W/ (2) 10d NAILS SPACED MINIMUM 16" C/C -(2) 1/2" DIA. THRU-BOLTS 6x6 SUPPORT POST SIMPSON LUS210 JOIST HANGERS-(NOTCHED) (OR EQUIVALENT) #10x1 1/2" SD SCREWS THROUGH -POST BASE INTO 6x6 POST 1/2" DIA. x 4" LONG GALV. LAG SCREW
3/4" SUBFLOOR OR DECKING BOTH SIDES (TOTAL OF 6) SIMPSON ABA66Z POST BASE (AS APPLICABLE) (OR EQUIVALENT) 2x10 JOISTS @ 16" C/C-DBL. 2x10 RIM JOIST FASTEN ∠W/ (2) 10d NAILS SPACED MINIMUM 16" C/C -(2) 1/2" DIA. THRU-BOLTS 6x6 SUPPORT POST SIMPSON LUS210 JOIST HANGERS-(NOTCHED) (OR EQUIVALENT) SIMPSON PB66Z POST BASE -(OR EQUIVALENT) CAST INTO NEW CONCRETE **GRADE** CONCRETE PIER FOOTER SECTION A-A SCALE: 1/2" = 1'-0" PIC DET JET 01-24-2025 ERIC OETJEN, P.E., M. ENG.

DBL. 2x12 RIM JOIST FASTEN

DATE 1/20/25	-
DRAWN DH	-
SCALE AS NOTED	-
SHEET 4 OF 11	-

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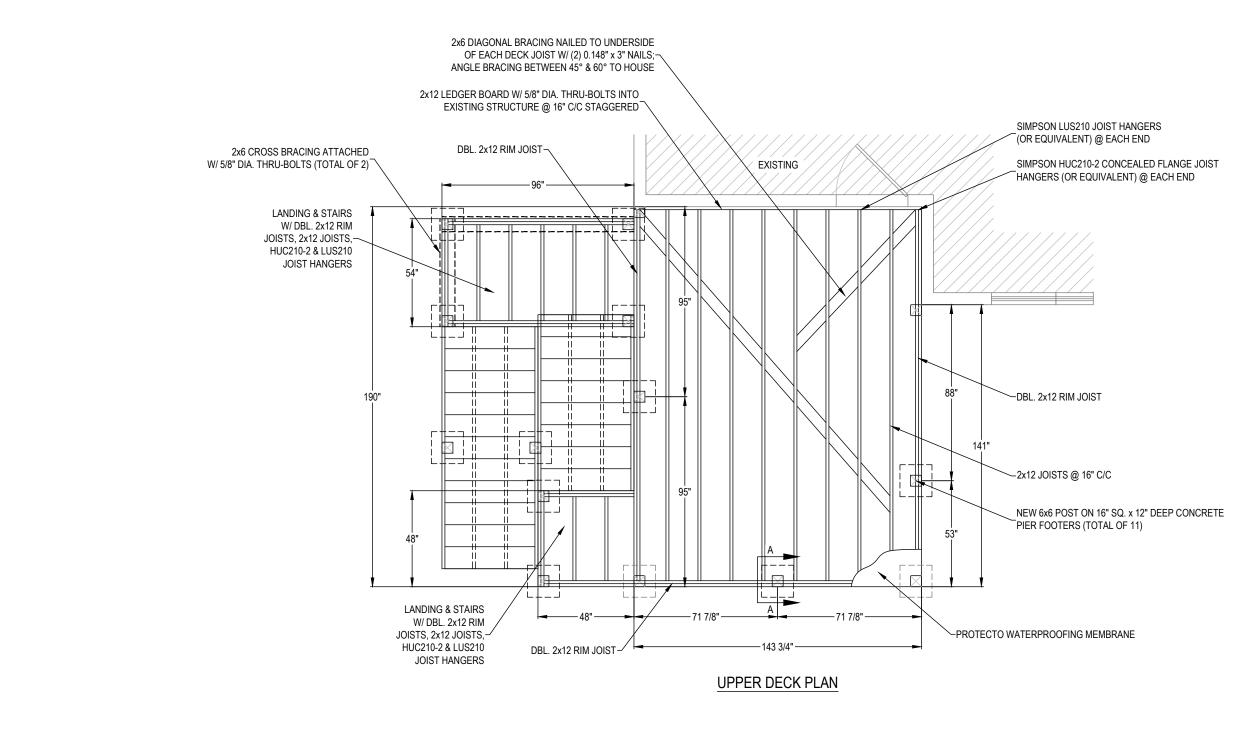
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3/4" SUBFLOOR OR DECKING

2x12 JOISTS @ 16" C/C-

(AS APPLICABLE)



SEAL 049195 SEAL 049195 OET JETUIN 01-24-2025

NOTE: DECK TO BE BUILT PER 2018 NC RESIDENTIAL CODE

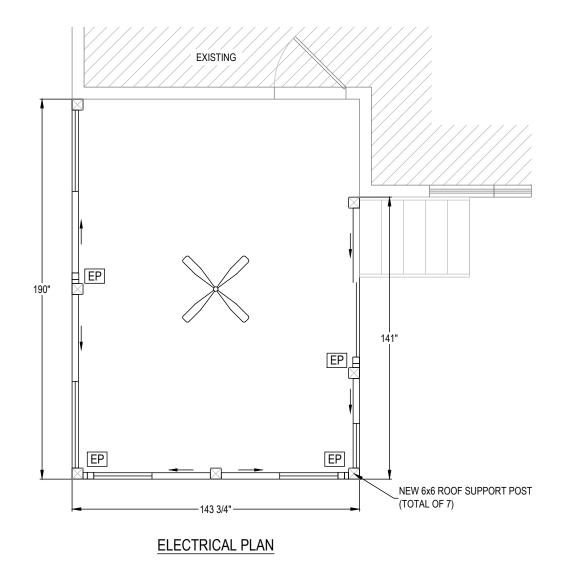
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SCALE 1/4" = 1'-0"	-
SHEET 5 OF 11	-

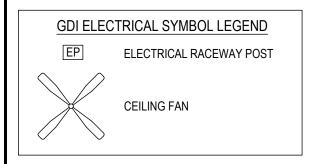
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ENGINEER'S STAMP APPLIES TO SUNROOM STRUCTURE ONLY; ELECTRICAL BY OTHERS

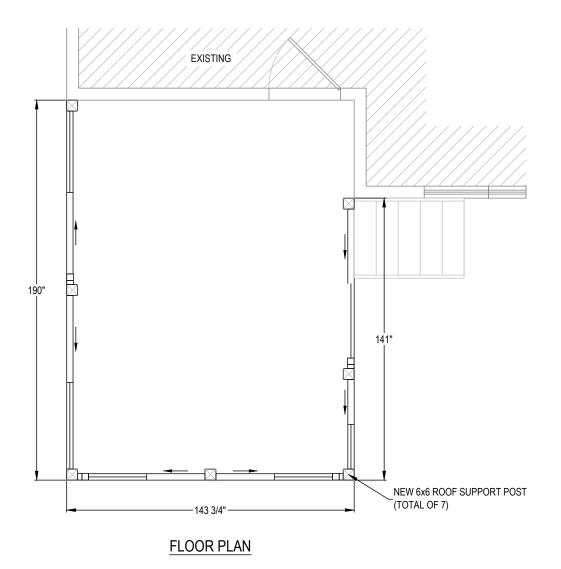
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SHEET 6 OF 11	-

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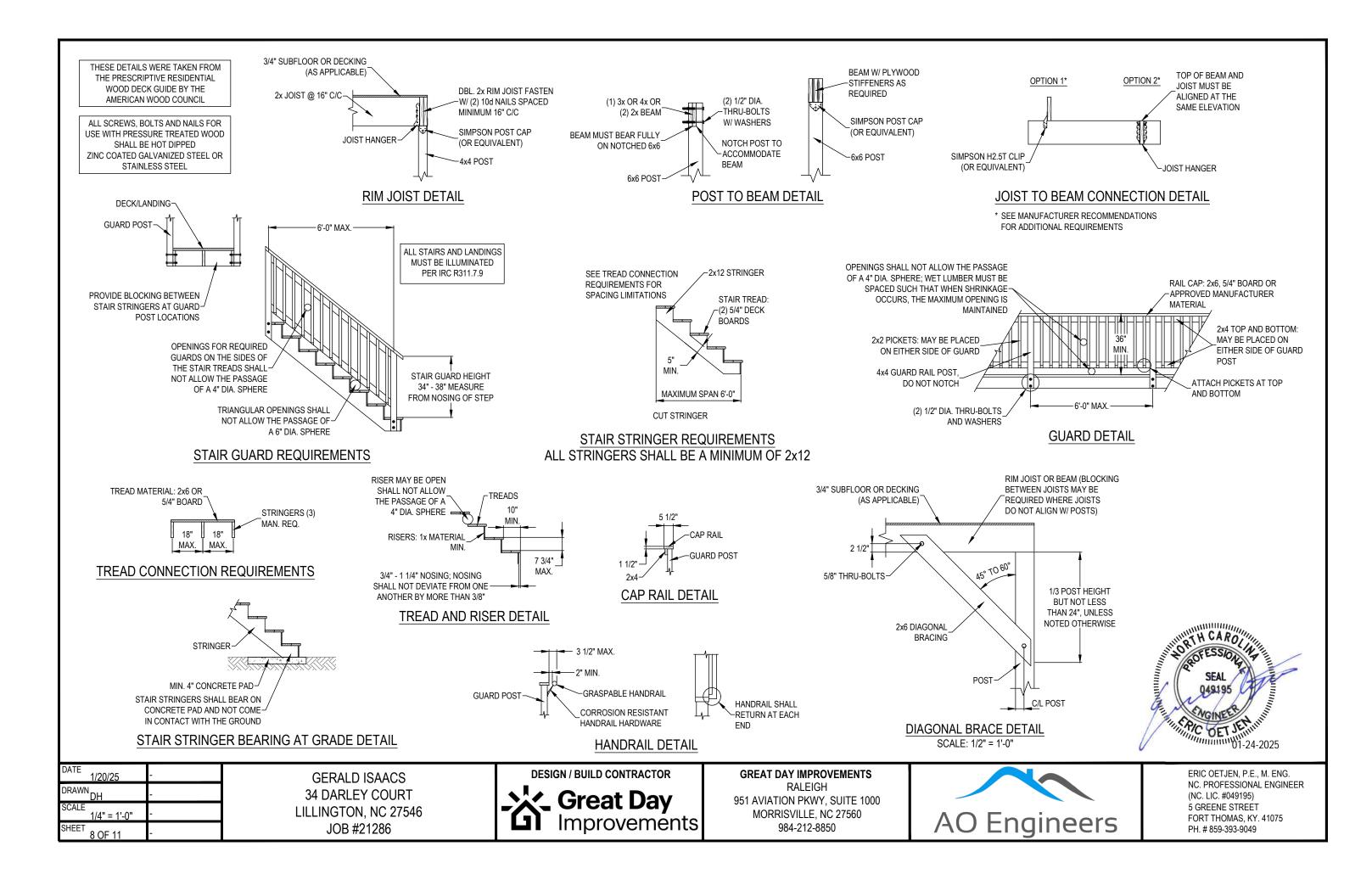
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DRAWN DH	-
SCALE 1/4" = 1'-0"	-
SHEET 7.0F.11	_

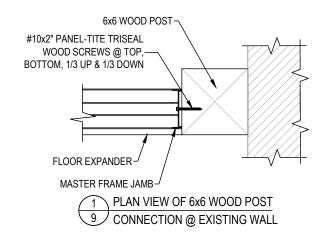
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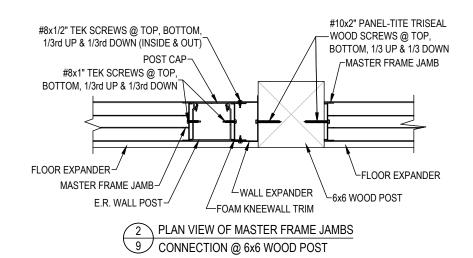


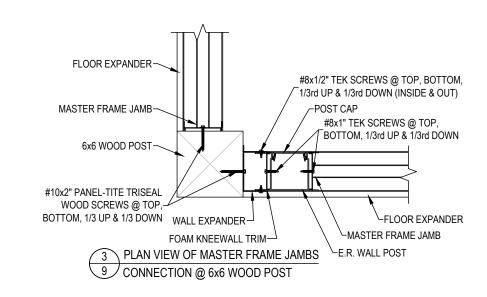
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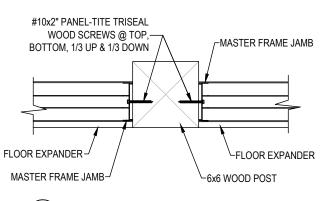


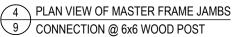


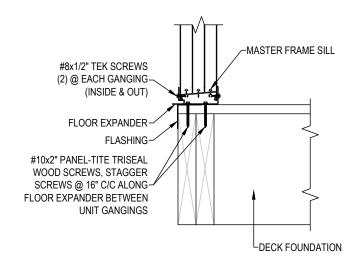












5 SECTION THROUGH MASTER FRAME SILL 9 CONNECTION @ DECK FOUNDATION



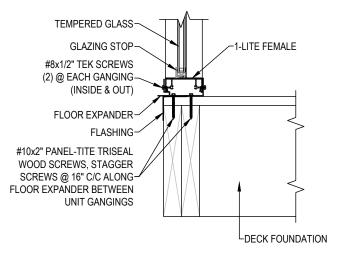
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DRAWN DH	-
SCALE 1 1/2" = 1'-0"	-
SHEET 9 OF 11	-

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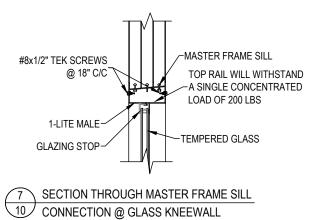


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6 SECTION THROUGH GLASS KNEEWALL CONNECTION @ DECK FOUNDATION



TEMPERED GLASS

GLAZING STOP

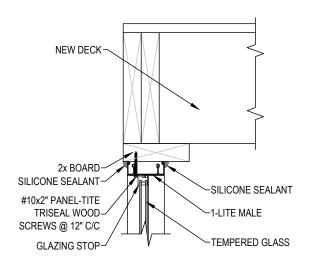
1-LITE MALE

#8x1/2" TEK SCREWS

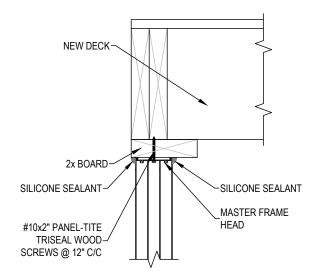
@ 18" C/C

HEAD

8 SECTION THROUGH MASTER FRAME HEAD
10 CONNECTION @ GLASS TRANSOM



9 SECTION THROUGH GLASS TRANSOM CONNECTION @ NEW DECK HEADER



SECTION THROUGH MASTER FRAME HEAD CONNECTION @ NEW DECK HEADER



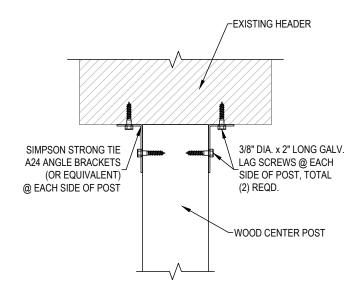
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DRAWN DH	-
SCALE 1 1/2" = 1'-0"	-
SHEET 10 OF 11	-

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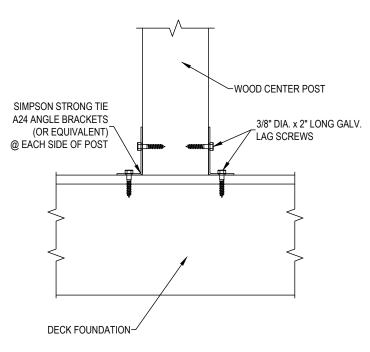
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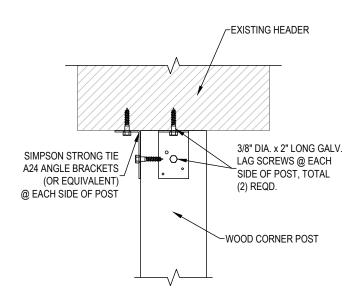
FRONT VIEW THROUGH WOOD CENTER POST CONNECTION @ HEADER (ALL CENTER POSTS)

DETAIL A

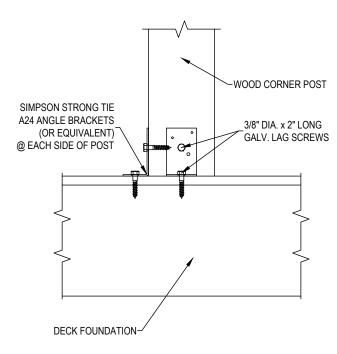


FRONT VIEW THROUGH WOOD CENTER POST CONNECTION @ DECK (ALL CENTER POSTS)

DETAIL B

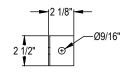


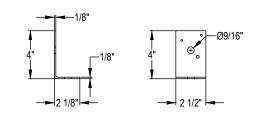
FRONT VIEW THROUGH WOOD CORNER POST
CONNECTION @ HEADER (ALL CORNER POSTS)
DETAIL C



FRONT VIEW THROUGH WOOD CORNER POST CONNECTION @ DECK (ALL CORNER POSTS)

DETAIL D





SIMPSON STRONG TIE A24 ANGLE BRACKET (OR EQUIVALENT)



DATE 1/20/25	-
DRAWN DH	-
SCALE 1 1/2" = 1'-0"	-
SHEET 11 OF 11	-

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