

MINIMUM DESIGN LOADS: PER 2019 RCO / 2018 IRC
W/ OH AMENDMENTS

SUNROOM CATEGORY II (PER 2018 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. ROOF: 15 PSF
2. WALLS: 6 PSF

SNOW LOADS: GROUND SNOW LOAD 25 PSF

ULTIMATE DESIGN WIND SPEED: 115 MPH, 3 SEC. GUSTS

SEISMIC DESIGN CATEGORY: B

LIVE LOADS: ROOF: 20 PSF

DEFLECTION LIMITS: WALLS: L/175

THIS THERMALLY ISOLATED SUNROOM IS
UNCONDITIONED AND NOT HABITABLE

NOTE: THE P.E. STAMP ON THESE DRAWINGS ADDRESS
ONLY THE GDI MANUFACTURED COMPONENTS, & THE
ANCHORAGE OF THESE COMPONENTS TO THE EXISTING
STRUCTURE.

SQUARE FOOTAGE OF SUNROOM = 185

NOTES:

1. ALLVIEW (AVR) SUNROOM; WHITE IN COLOR
2. CONSTRUCT SUNROOM ON EXISTING DECK AND UNDER EXISTING ROOF
3. NO ELECTRICAL BY GDI
4. CONCRETE
 - A) CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318 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) 2x4, 2x6: NO. 2 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
 - iii) 2x8, 2x10, 2x12: NO. 1 GRADE (OR BETTER) SOUTHERN PINE OR DOUGLAS FIR
 - iv) CCA OR CEC PRESSURE-TREATED FOR DECK FRAMING AND FRAMING EXPOSED TO WEATHER AND/OR MOISTURE
 - v) UC4A GROUND CONTACT RATING FOR POSTS AND FRAMING IN CONTACT WITH CONCRETE OR WITHIN 6" OF GROUND
 - B) MATERIALS - LVL BEAMS
 - i) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. DISTRIBUTED AS MICROLLAM LVL, GANG-LAM LVL, AND TIMBER MAX LVL, AND MEETING THE FOLLOWING DESIGN STRESS VALUES:
 - i) $F_b = 2,925$ PSI BENDING
 - ii) $F_v = 285$ PSI HORIZONTAL SHEAR
 - iii) $F_c^* = 880$ PSI COMPRESSION PERPENDICULAR TO GRAIN
 - iv) $E = 2,000,000$ PSI MODULUS OF ELASTICITY
 - C) FASTENERS
 - i) 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 2018 IRC SECTION N1102.1, NOTE 1.2)

GREAT DAY IMPROVEMENTS
PATIO ENCLOSURES, CLEVELAND
MACK RESIDENCE

SHEET #	DESCRIPTION
1	COVER
2	ELEVATION "B" WALL
3	ELEVATION "A" & "C" WALL
4	FLOOR PLAN
5	SYSTEM DETAILS



DATE 12/10/25	REV. A 12/17/25
DRAWN TLW / EO	-
SCALE NTS	-
SHEET 1 OF 5	

VALERIE MACK
19417 TELBIR AVENUE
ROCKY RIVER, OH 44116
JOB #44837

DESIGN / BUILD CONTRACTOR
Great Day
Improvements

GREAT DAY IMPROVEMENTS
CLEVELAND
7845 NORTHFIELD ROAD
WALTON HILLS, OH 44146
330-467-4267

AO Engineers

ERIC OETJEN, P.E., M. Eng.
OH. PROFESSIONAL ENGINEER
(OH. LIC. #84737)
1220 S. FORT THOMAS AVE. FLR 2
FORT THOMAS, KY. 41075
PH. # 859-393-9049



DATE	12/10/25	REV. A	12/17/25
DRAWN	TLW / EO	-	-
SCALE	1/4" = 1'-0"	-	-
SHEET	2 OF 5		

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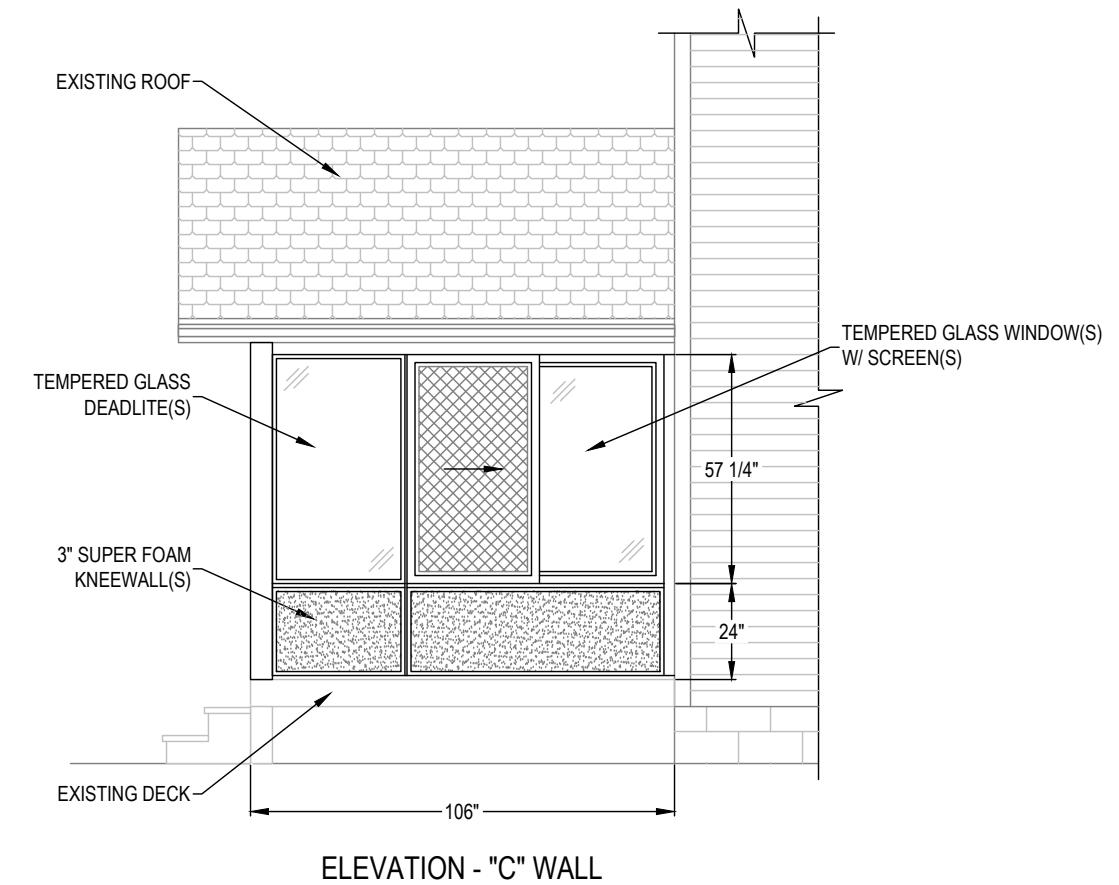
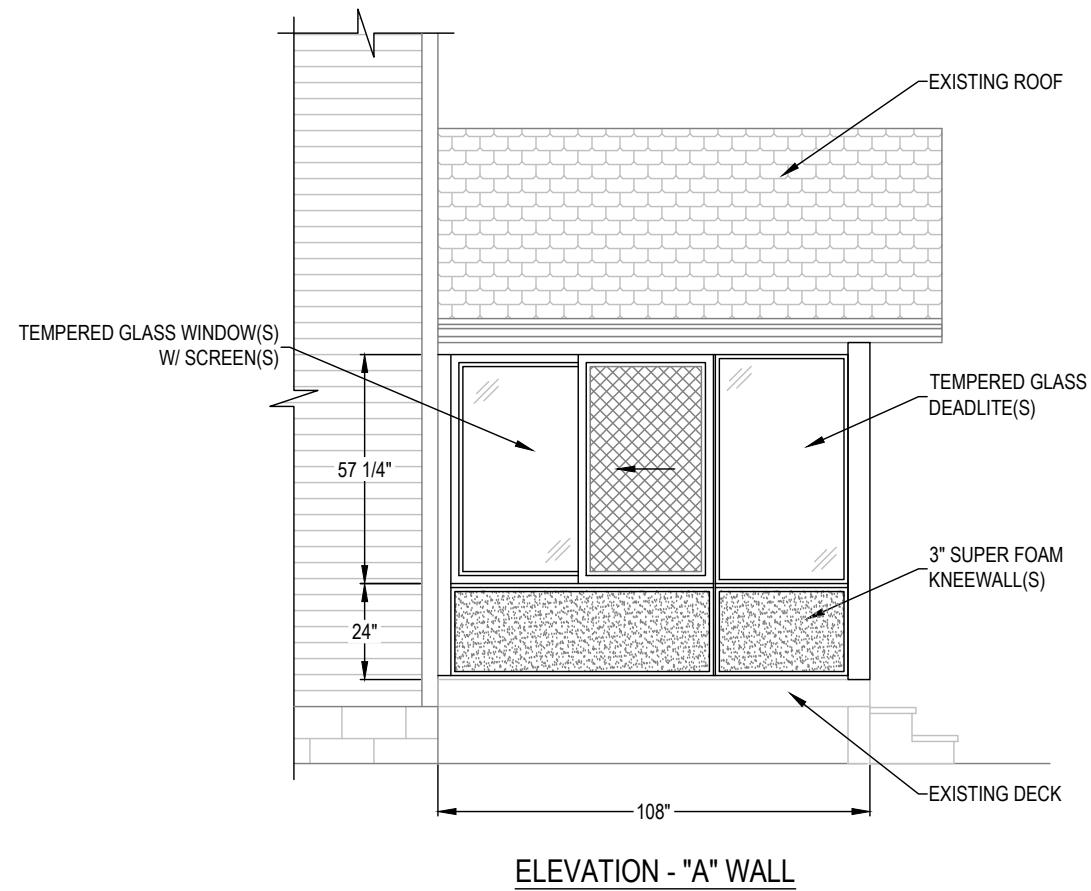


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SHEET 3 OF 5	

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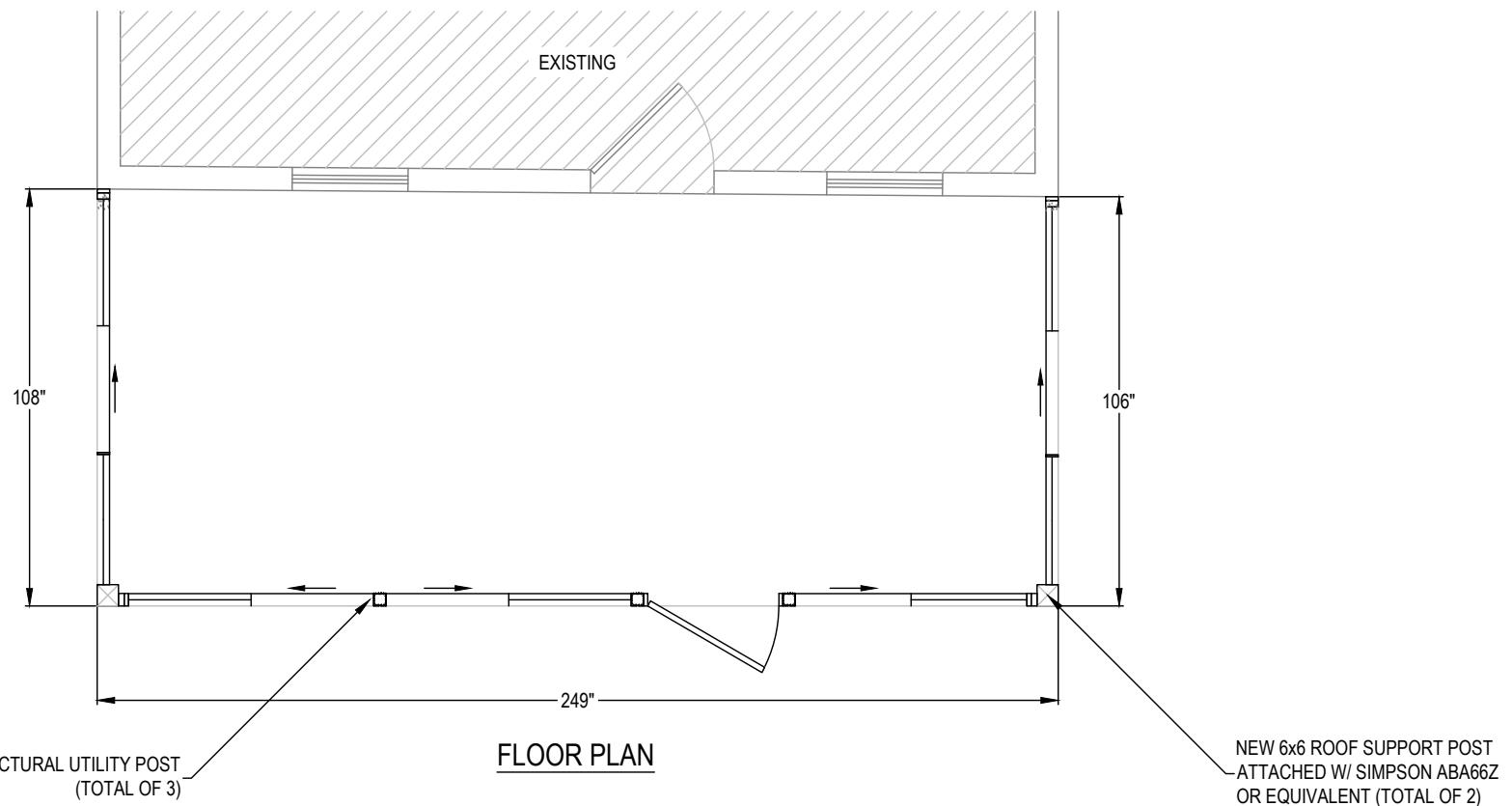


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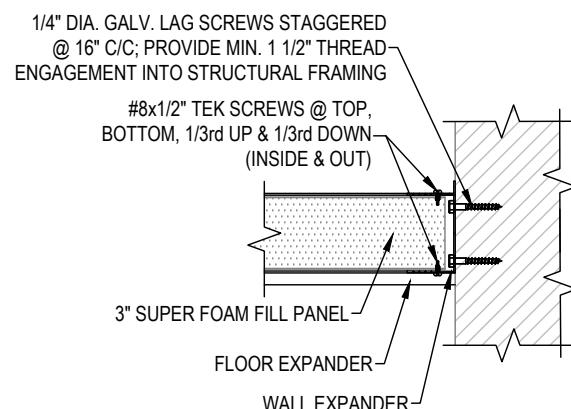
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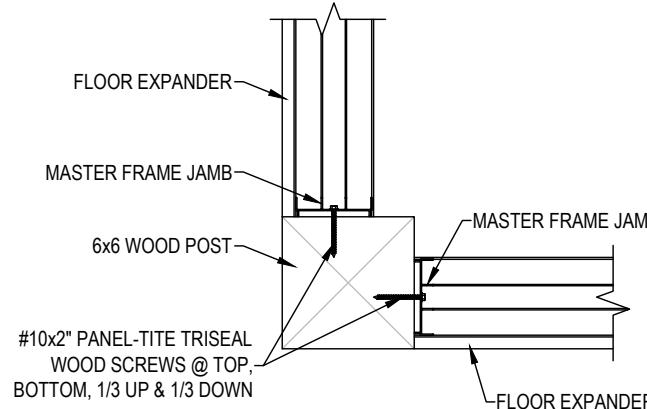
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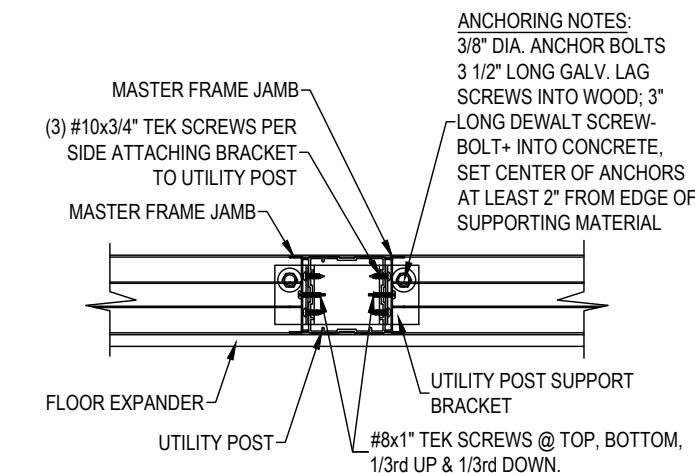
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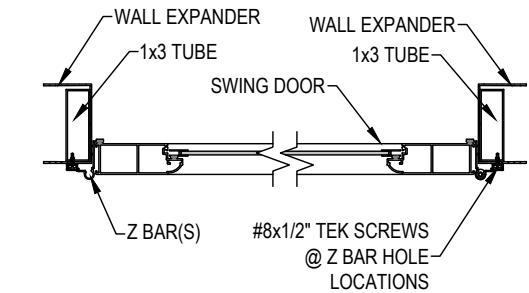
PLAN VIEW OF SUPER FOAM FILL PANEL
CONNECTION @ EXISTING WALL



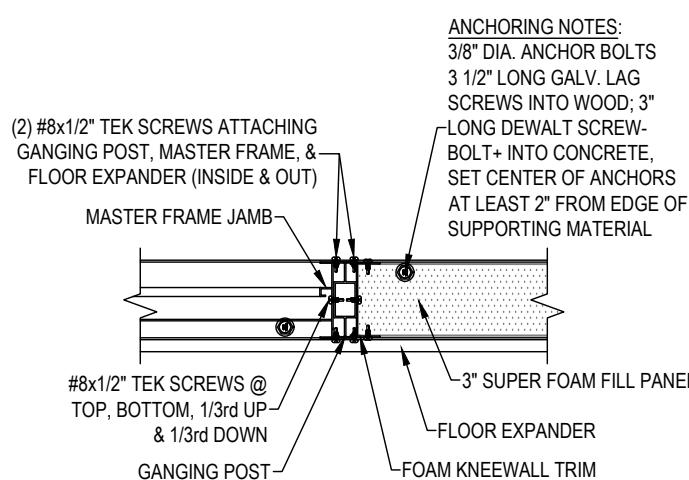
PLAN VIEW OF MASTER FRAME JAMBS
CONNECTION @ 6x6 WOOD POST



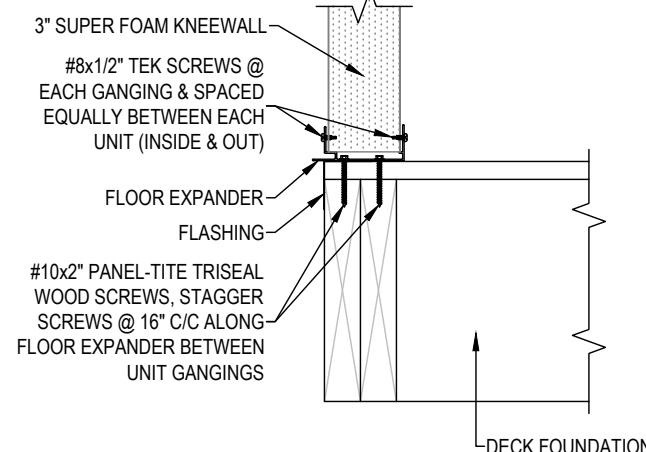
PLAN VIEW OF MASTER FRAME JAMBS
CONNECTION @ UTILITY POST



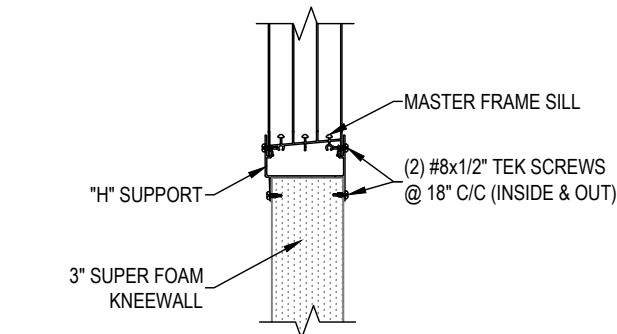
PLAN VIEW OF SWING DOOR JAMB
CONNECTION @ WALL EXPANDER



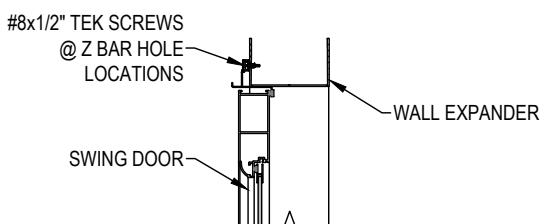
PLAN VIEW OF MASTER FRAME JAMB & SUPER FOAM
FILL PANEL CONNECTION @ GANDING POST



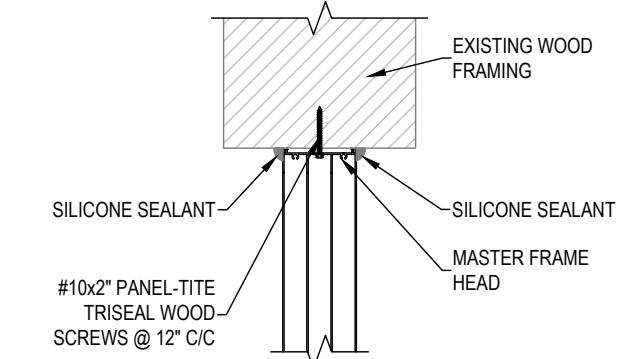
SECTION THROUGH FOAM KNEEWALL
CONNECTION @ DECK FOUNDATION



SECTION THROUGH MASTER FRAME SILL
CONNECTION @ FOAM KNEEWALL



SECTION THRU SWING DOOR
CONNECTION @ WALL EXPANDER



SECTION THROUGH MASTER FRAME HEAD
CONNECTION @ EXISTING HEADER



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