MINIMUM DESIGN LOADS: PER 2022 CT STATE BUILDING CODE / 2021 IRC W/ AMENDMENTS

SUNROOM CATEGORY II (PER 2021 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: 6 PSF
2. WALLS: 6 PSF
3. FLOOR: 12 PSF

SNOW LOADS: GROUND SNOW LOAD 30 PSF

ULTIMATE DESIGN WIND SPEED: 116 MPH, 3 SEC. GUSTS

LIVE LOADS:
1. ROOF: 20 PSF
2. FLOOR: 40 PSF

DEFLECTION LIMITS:
1. ROOF: L/120 (PER 2021 IRC TABLE R301.7 NOTE C)
2. WALLS: L/175
3. FLOOR: L/240 (TOTAL LOAD), L/360 (LIVE LOAD)

ALLOWABLE SOIL PRESSURE CONSIDERED (PRESUMPTIVE) = 1500 PSF

THIS THERMALLY ISOLATED SUNROOM IS UNCONDITIONED AND NOT HABITABLE

THIS SUNROOM AND FOUNDATION HAVE BEEN EVALUATED FOR DESIGN LOADS REQUIRED BY THE IRC CODE. THIS INCLUDES ALL MATERIALS, COMPONENTS, CONNECTIONS, AND ATTACHMENTS WHEN CALCULATING THE LOAD REQUIREMENTS.

NOTES:
1. ALLVIEW (AAS) SUNROOM; SANDSTONE IN COLOR
2. CONSTRUCT SUNROOM ON NEW DECK
3. ELECTRICAL BY CUSTOMER
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 2021 IRC SECTION N1102.1, NOTE 1.2)

GREAT DAY IMPROVEMENTS
PATIO ENCLOSURES, HARTFORD
VENTO RESIDENCE

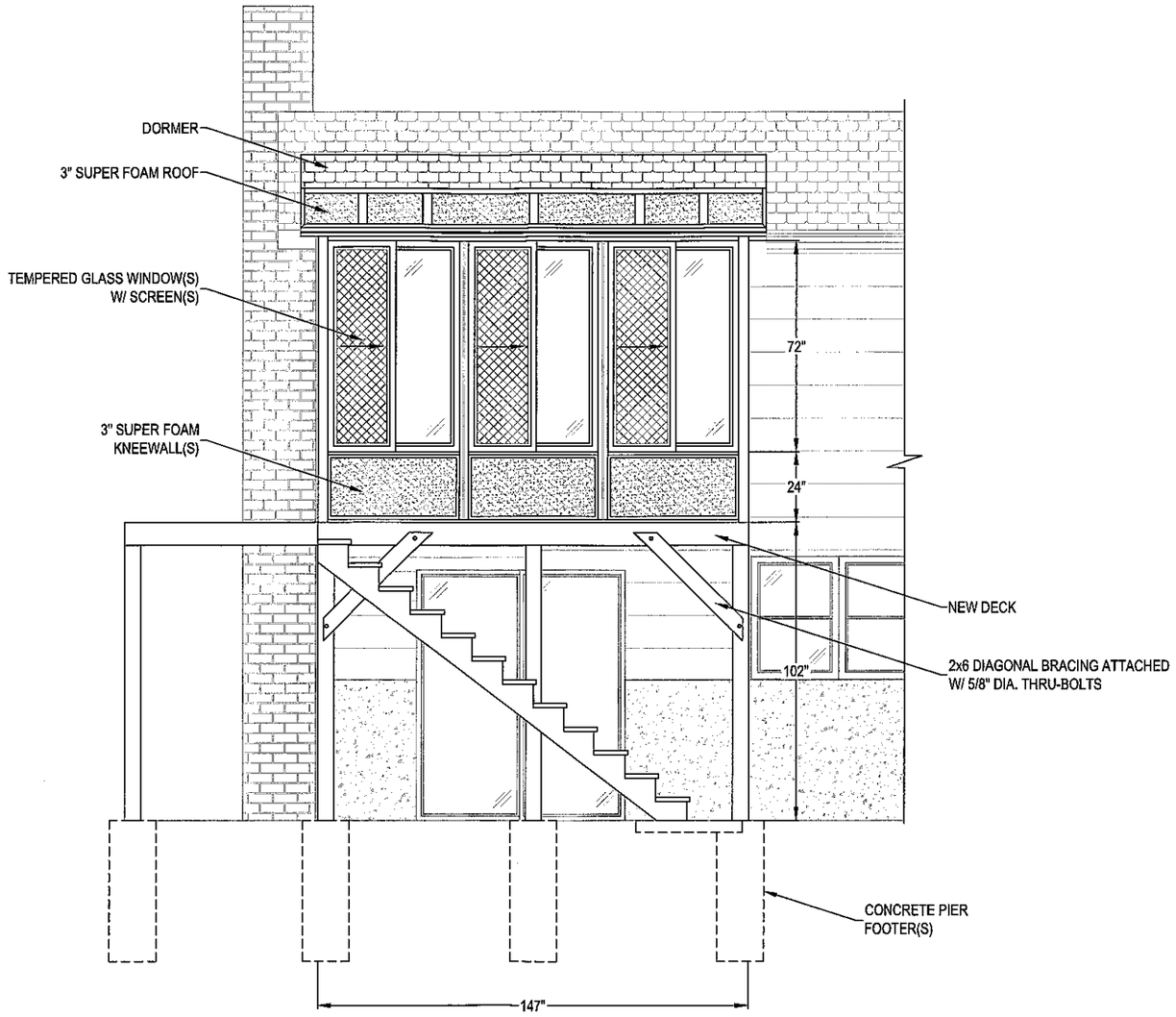
DATE 6/18/24	REV. A 6/25/24
DRAWN DLF	-
SCALE NTS	-
SHEET 1 OF 10	-

ANDREW VENTO
58 SILVER SPRING ROAD
RIDGEFIELD, CT 06877
JOB #39042

HARTFORD
530 HAYDEN STATION RD. STE E-F
WINDSOR, CT 06095
508-822-1966

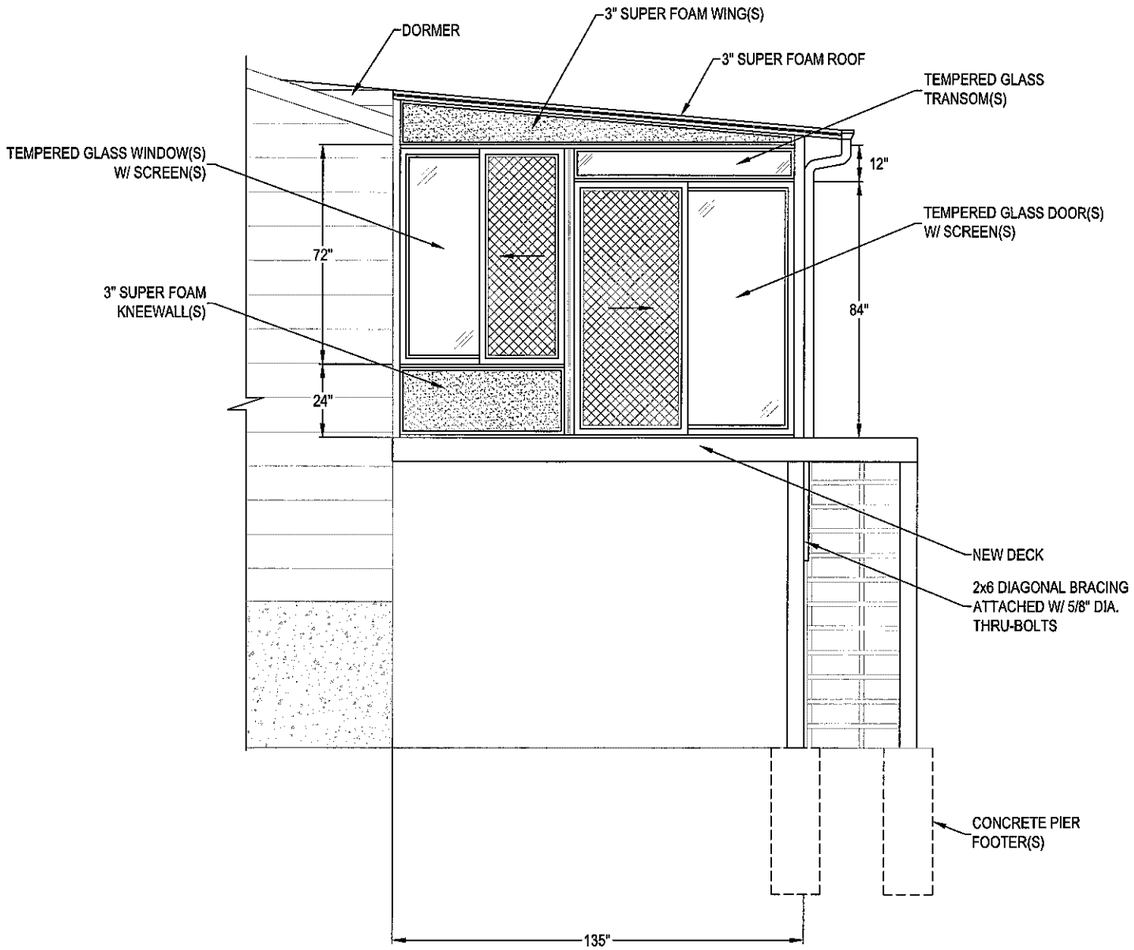
Great Day Improvements

JAMES A. CLANCY, P.E., L.S.
CT. PROFESSIONAL ENGINEER
(CT. LIC. #25445)
601 ASBURY AVENUE
NATIONAL PARK, NJ. 08063
PH. # 856-853-7306

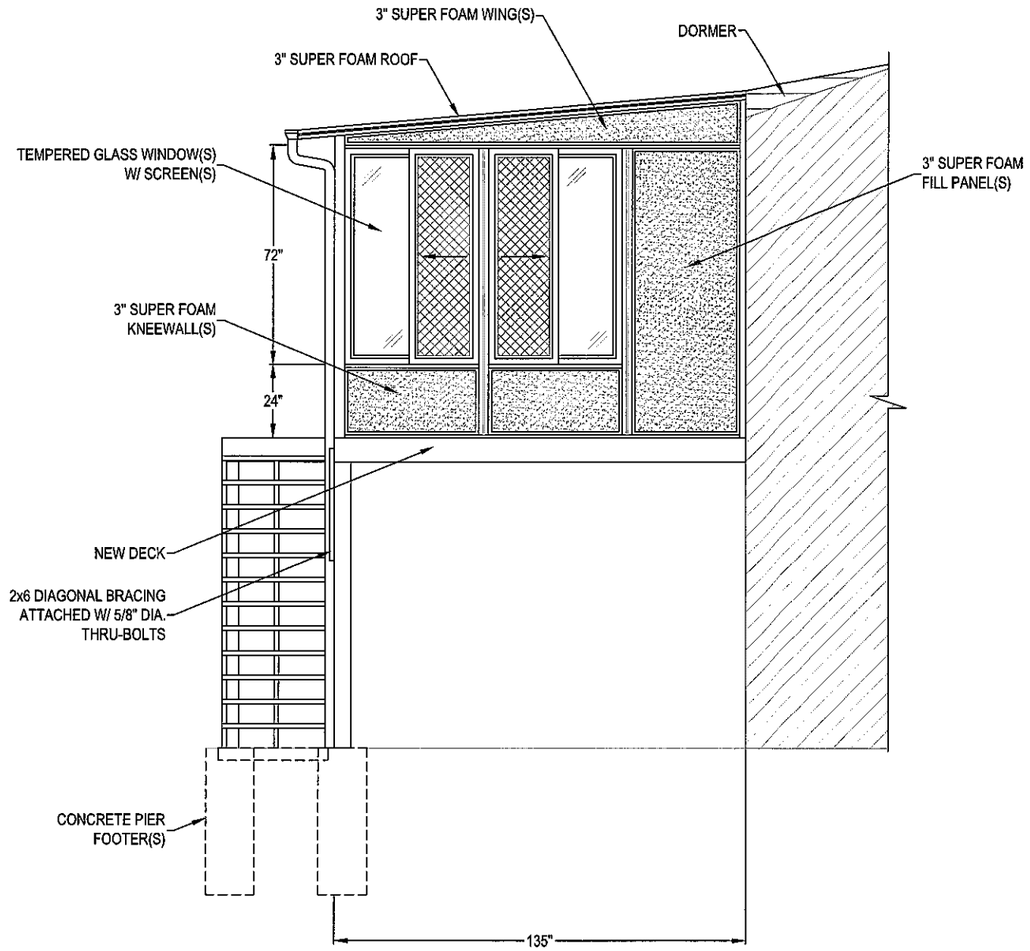


ELEVATION - "B" WALL
(RAILING NOT SHOWN FOR CLARITY)

DATE 6/18/24	REV. A 6/25/24	ANDREW VENTO 58 SILVER SPRING ROAD RIDGEFIELD, CT 06877 JOB #39042	HARTFORD 530 HAYDEN STATION RD. STE E-F WINDSOR, CT 06095 508-822-1966	Great Day Improvements	JAMES A. CLANCY, P.E., L.S. CT. PROFESSIONAL ENGINEER (CT. LIC. #25445) 601 ASBURY AVENUE NATIONAL PARK, NJ. 08063 PH. # 856-853-7306
DRAWN DLF	-				
SCALE 1/4" = 1'-0"	-				
SHEET 2 OF 10	-				



ELEVATION - "A" WALL
(RAILING NOT SHOWN FOR CLARITY)



ELEVATION - "C" WALL
(RAILING NOT SHOWN FOR CLARITY)

DATE 6/18/24	REV. A 6/25/24
DRAWN DLF	-
SCALE 1/4" = 1'-0"	-
SHEET 3 OF 10	-

ANDREW VENTO
58 SILVER SPRING ROAD
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JOB #39042

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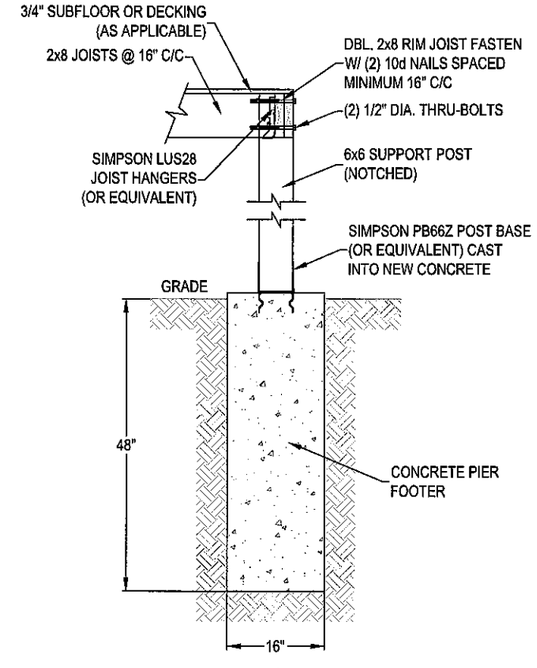

SECTION A-A
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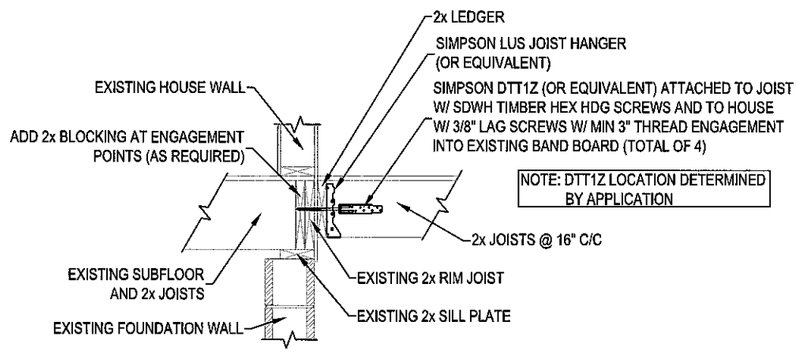

SECTION B-B
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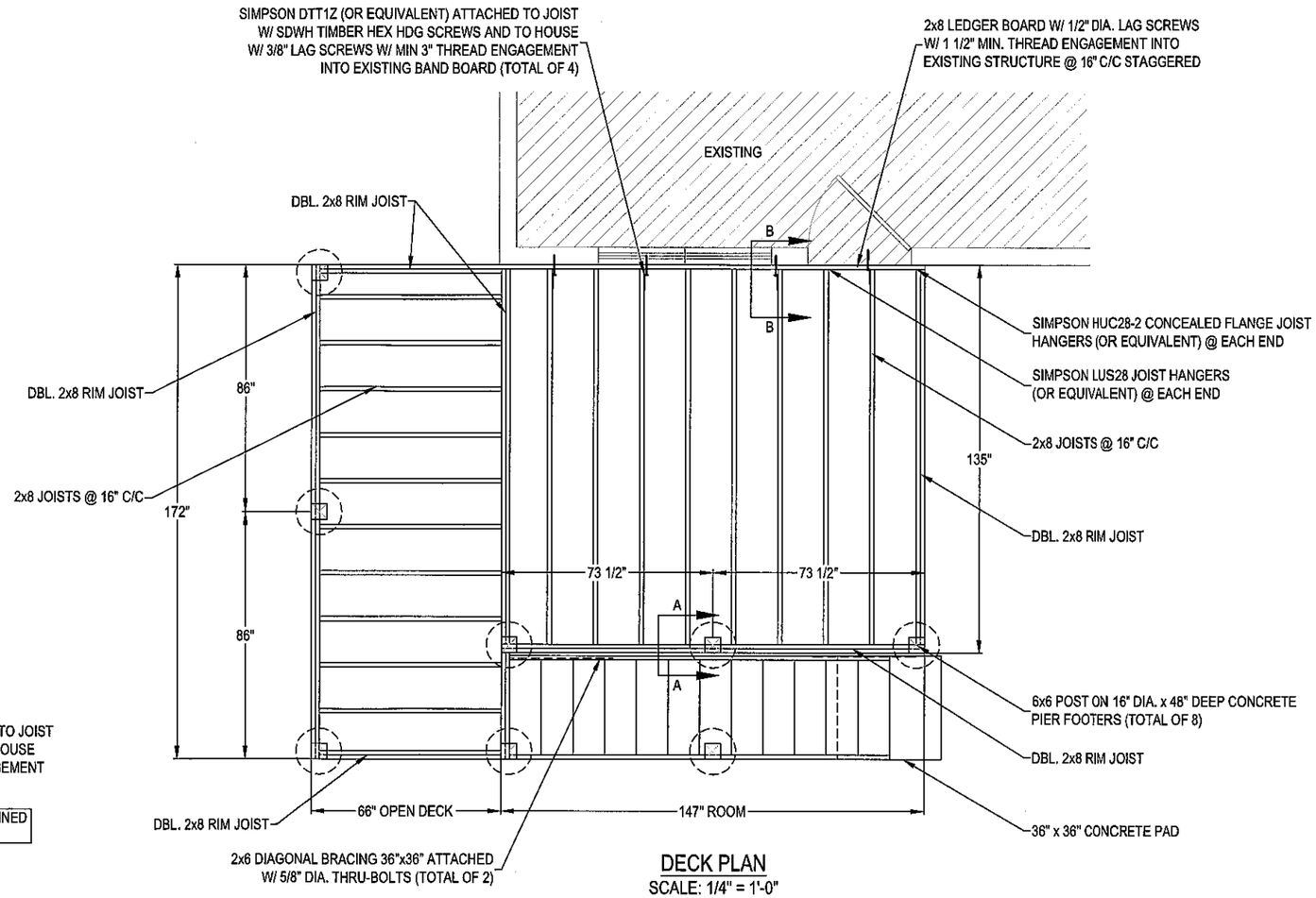

DECK PLAN
SCALE: 1/4" = 1'-0"

DATE	6/18/24
DRAWN	DLF
SCALE	AS NOTED
SHEET	4 OF 10

REV. A 6/25/24
-
-
-

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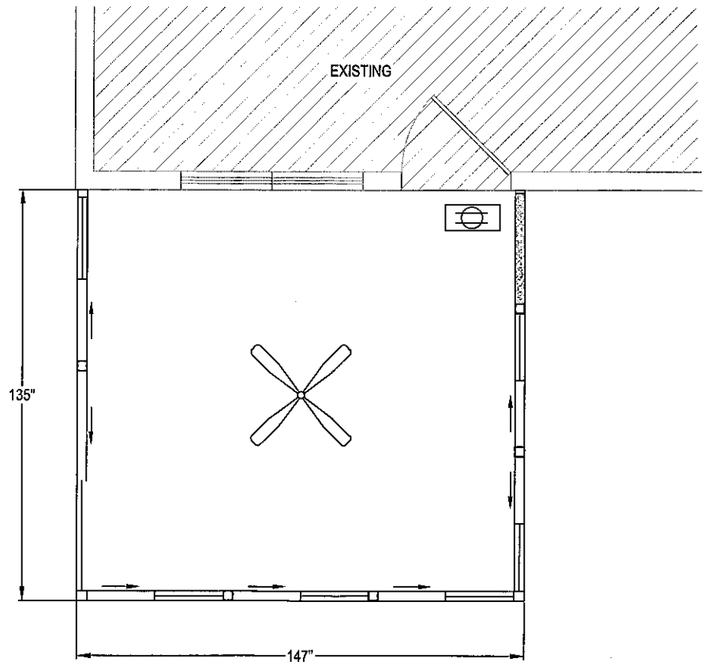

ELECTRICAL PLAN

NOTE: ELECTRICAL BY CUSTOMER

GDI ELECTRICAL SYMBOL LEGEND

FLOOR DUPLEX RECEPTACLE

CEILING FAN

DATE 6/18/24	REV. A 6/25/24
DRAWN DLF	-
SCALE 1/4" = 1'-0"	-
SHEET 5 OF 10	-

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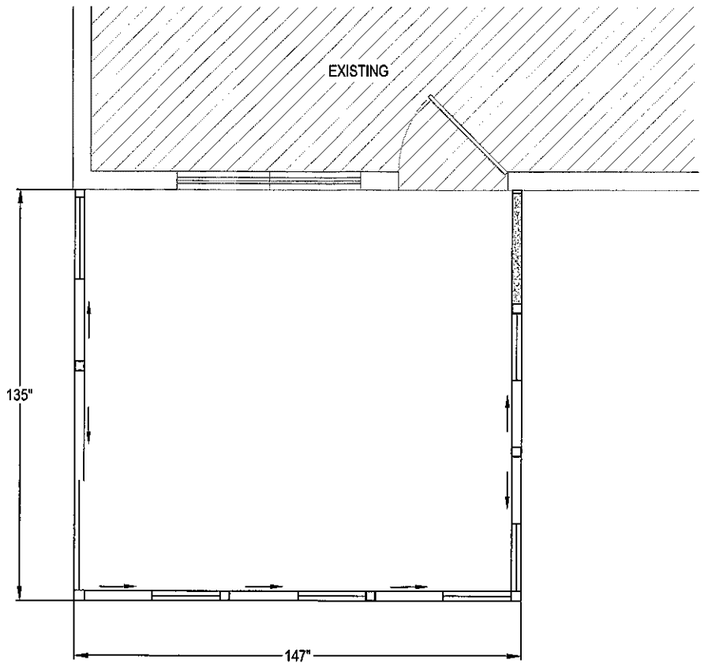
ENGINEER'S STAMP APPLIES TO SUNROOM STRUCTURE ONLY; ELECTRICAL BY OTHERS



FLOOR PLAN

DATE 6/18/24	REV. A 6/25/24
DRAWN DLF	-
SCALE 1/4" = 1'-0"	-
SHEET 6 OF 10	-

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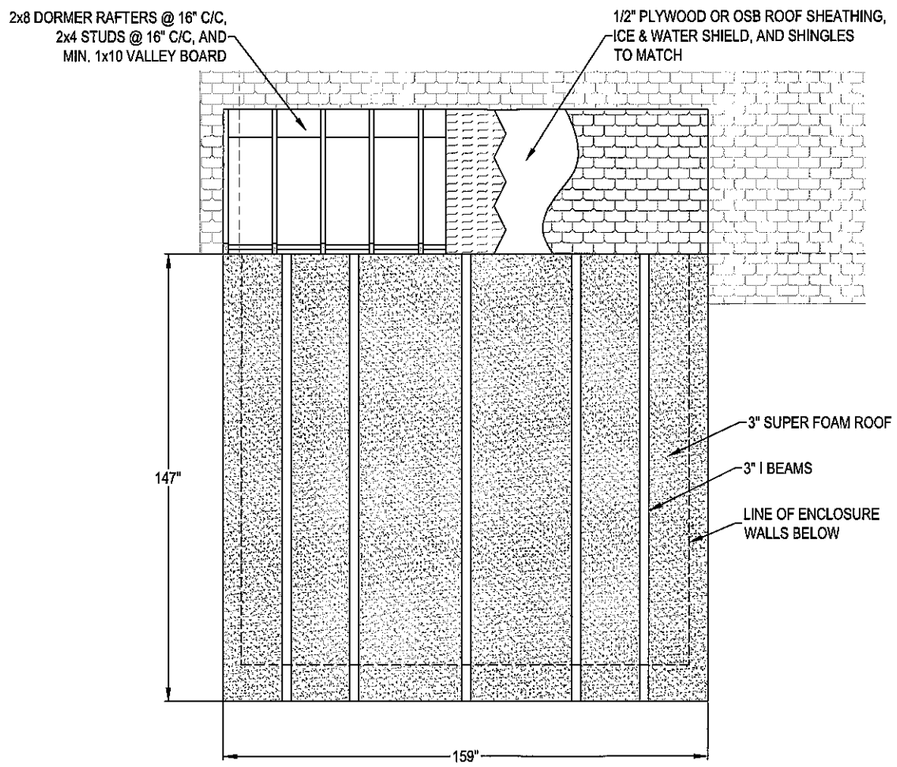
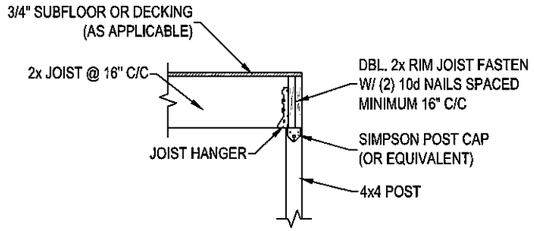


ROOF PLAN

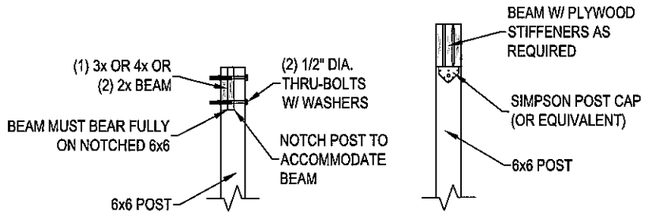
DATE 6/18/24	REV. A 6/25/24	ANDREW VENTO 58 SILVER SPRING ROAD RIDGEFIELD, CT 06877 JOB #39042	HARTFORD 530 HAYDEN STATION RD. STE E-F WINDSOR, CT 06095 508-822-1966	Great Day Improvements	JAMES A. CLANCY, P.E., L.S. CT. PROFESSIONAL ENGINEER (CT. LIC. #25445) 601 ASBURY AVENUE NATIONAL PARK, NJ. 08063 PH. # 856-853-7306
DRAWN DLF	-				
SCALE 1/4" = 1'-0"	-				
SHEET 7 OF 10	-				

THESE DETAILS WERE TAKEN FROM THE PRESCRIPTIVE RESIDENTIAL WOOD DECK GUIDE BY THE AMERICAN WOOD COUNCIL

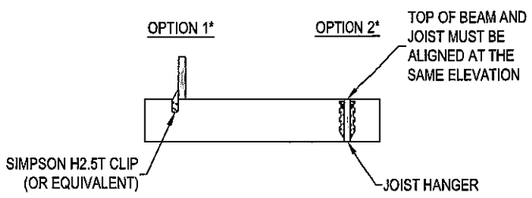
ALL SCREWS, BOLTS AND NAILS FOR USE WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL



RIM JOIST DETAIL

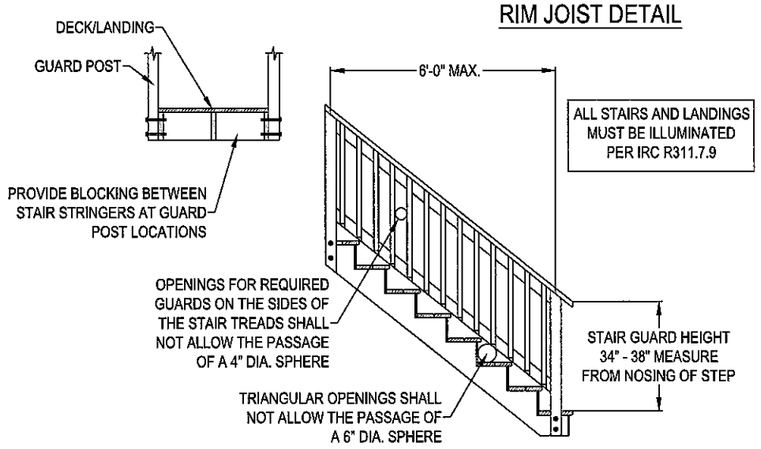


POST TO BEAM DETAIL

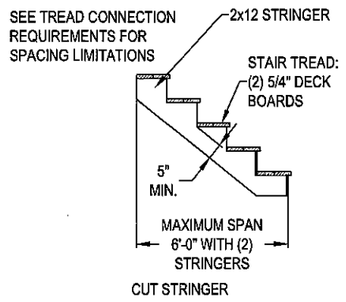


JOIST TO BEAM CONNECTION DETAIL

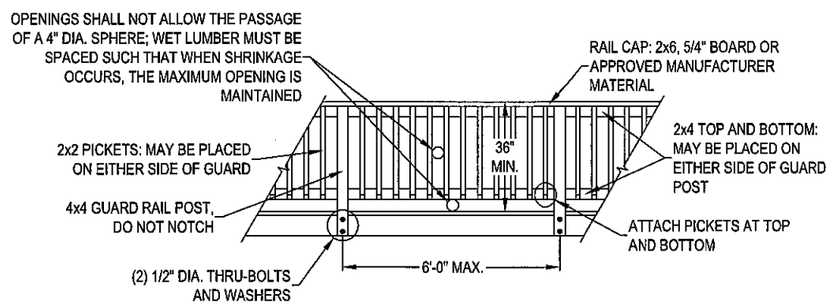
* SEE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL REQUIREMENTS



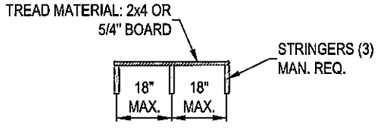
STAIR GUARD REQUIREMENTS



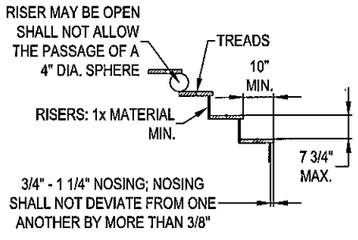
STAIR STRINGER REQUIREMENTS
ALL STRINGERS SHALL BE A MINIMUM OF 2x12



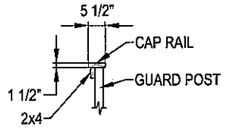
GUARD DETAIL



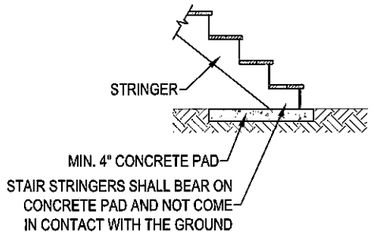
TREAD CONNECTION REQUIREMENTS



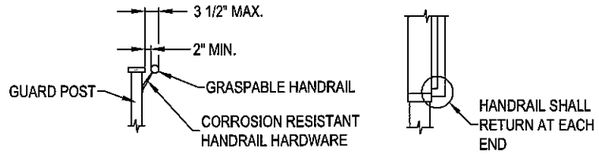
TREAD AND RISER DETAIL



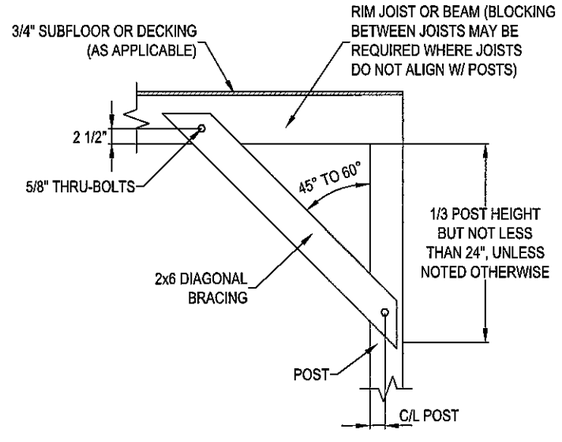
CAP RAIL DETAIL



STAIR STRINGER BEARING AT GRADE DETAIL



HANDRAIL DETAIL



DIAGONAL BRACE DETAIL
SCALE: 1/2" = 1'-0"

DATE 6/18/24	REV. A 6/25/24
DRAWN DLF	-
SCALE 1/4" = 1'-0"	-
SHEET 8 OF 10	-

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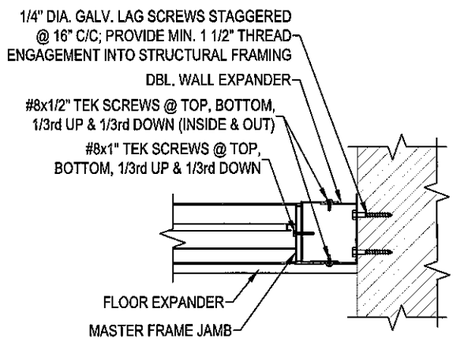
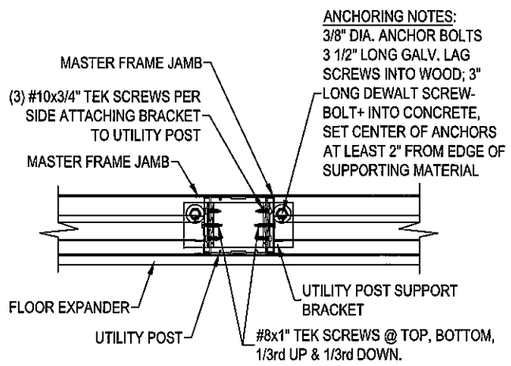
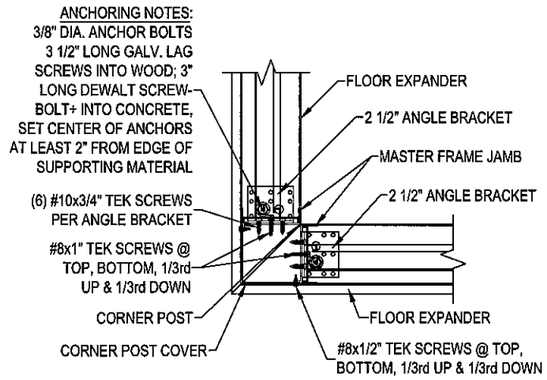


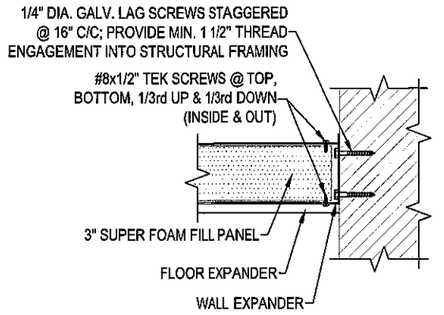
PLAN VIEW OF MASTER FRAME JAMB & DBL. EXPANDER CONNECTION @ EXISTING WALL



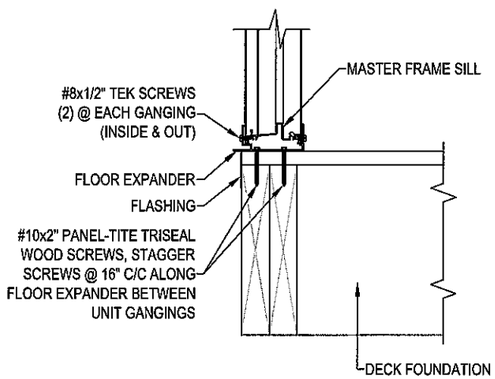
PLAN VIEW OF MASTER FRAME JAMBS CONNECTION @ UTILITY POST



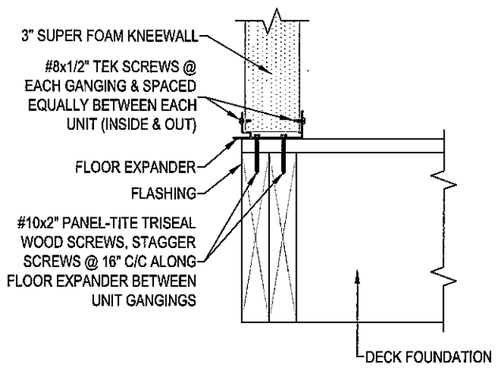
PLAN VIEW OF MASTER FRAME JAMBS CONNECTION @ CORNER POST



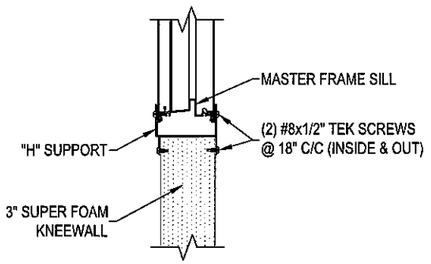
PLAN VIEW OF SUPER FOAM FILL PANEL CONNECTION @ EXISTING WALL



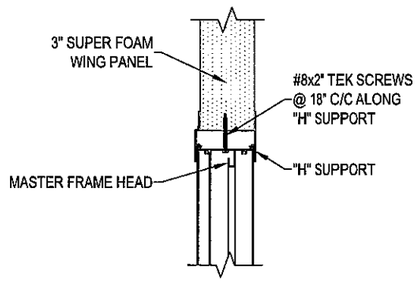
SECTION THROUGH MASTER FRAME SILL CONNECTION @ DECK FOUNDATION



SECTION THROUGH FOAM KNEEWALL CONNECTION @ DECK FOUNDATION

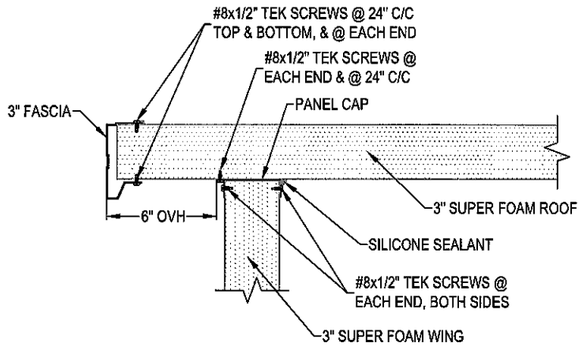


SECTION THROUGH MASTER FRAME SILL CONNECTION @ FOAM KNEEWALL

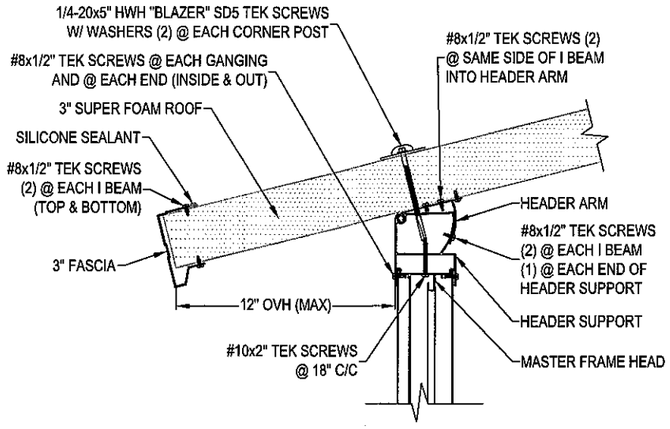


SECTION THROUGH MASTER FRAME HEAD CONNECTION @ FOAM WING

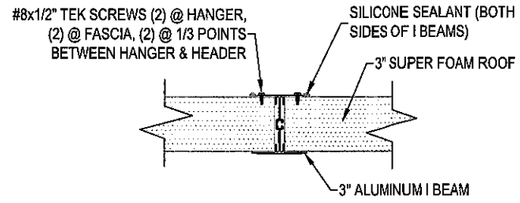
DATE 6/18/24	REV. A 6/25/24	ANDREW VENTO 58 SILVER SPRING ROAD RIDGEFIELD, CT 06877 JOB #39042	HARTFORD 530 HAYDEN STATION RD. STE E-F WINDSOR, CT 06095 508-822-1966	Great Day Improvements	JAMES A. CLANCY, P.E., L.S. CT. PROFESSIONAL ENGINEER (CT. LIC. #25445) 601 ASBURY AVENUE NATIONAL PARK, NJ. 08063 PH. # 856-853-7306
DRAWN DLF	-				
SCALE 1 1/2" = 1'-0"	-				
SHEET 9 OF 10	-				



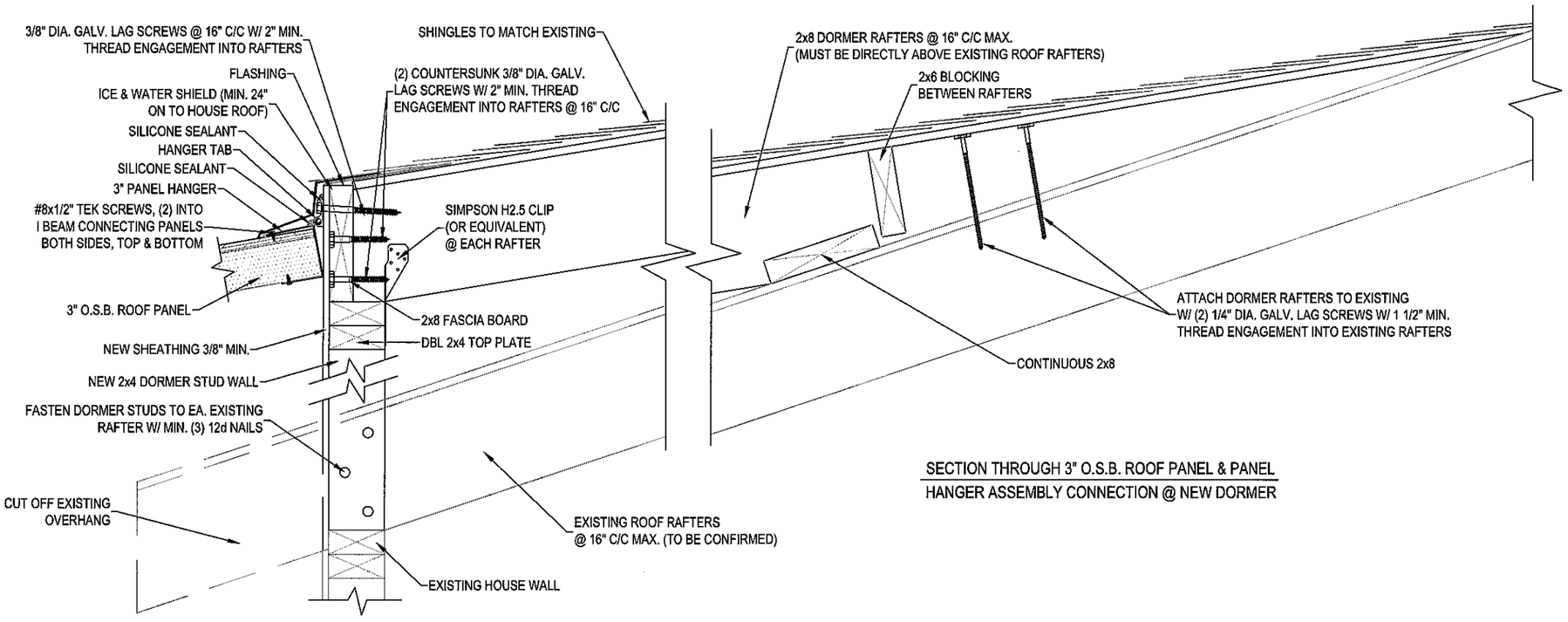
SECTION THROUGH 3" SUPER FOAM ROOF PANEL
CONNECTION @ 3" SUPER FOAM WING PANEL



SECTION THROUGH MASTER FRAME & HEADER
CONNECTION @ 3" SUPER FOAM ROOF



SECTION THROUGH 3" ROOF
CONNECTION @ I BEAM



SECTION THROUGH 3" O.S.B. ROOF PANEL & PANEL
HANGER ASSEMBLY CONNECTION @ NEW DORMER

DATE 6/18/24	REV. A 6/25/24	ANDREW VENTO 58 SILVER SPRING ROAD RIDGEFIELD, CT 06877 JOB #39042	HARTFORD 530 HAYDEN STATION RD. STE E-F WINDSOR, CT 06095 508-822-1966	Great Day Improvements	JAMES A. CLANCY, P.E., L.S. CT. PROFESSIONAL ENGINEER (CT. LIC. #25445) 601 ASBURY AVENUE NATIONAL PARK, NJ. 08063 PH. # 856-853-7306
DRAWN DLF	-				
SCALE 1 1/2" = 1'-0"	-				
SHEET 10 OF 10	-				