

**GENERAL STRUCTURAL NOTES:**

- STRUCTURAL WORK SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS. STRUCTURAL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE FOLLOWING GOVERNING STANDARDS:
  - THE 2022 CONNECTICUT STATE BUILDING CODE 780 CMR, AND AMENDMENTS ALONG WITH OTHER AGENCIES HAVING JURISDICTION.
  - THE INTERNATIONAL EXISTING BUILDING CODE 2021 EDITION AND REFERENCED STANDARDS
  - THE ANSI/AWC NDS - 2018 NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AND MAKE SAFE FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE.
- CONSTRUCTION IS TO CONFORM TO APPLICABLE PRODUCT AND DESIGN STANDARDS. ABSENCE OF SPECIFIC ITEMS FROM THESE DRAWINGS DOES NOT INFER THAT THE CONTRACTOR IS RELIEVED FROM THE STATUTORY CODE REQUIREMENTS.
- MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPROVED RULES AND STANDARDS FOR MATERIALS, TESTS, AND REQUIREMENTS OF ACCEPTED ENGINEERING PRACTICE AS LISTED THE IBC 2021 CHAPTER 35 REFERENCED STANDARDS.
- THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK. ANY DISCREPANCY BETWEEN WHAT IS SHOWN ON THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED BACK TO THE ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.
- OPENINGS THROUGH THE FRAMING AND FOUNDATION MAY NOT BE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS IN ALL INSTANCES. THE GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF OPENINGS. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S IMMEDIATE ATTENTION FOR REVIEW.
- NOTIFY THE ENGINEER OF ANY ARCHITECTURAL MODIFICATION OR DIMENSION CHANGES THAT MAY AFFECT THE STRUCTURAL DESIGN.
- WORK SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. NOTIFY THE ENGINEER OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES AND REGULATIONS, FOR RESOLUTION BEFORE COMMENCING WORK.

**DESIGN LOAD NOTES:**

- GRAVITY LIVE LOADS
  - OFFICE = 40 PSF
  - ROOF = 20 PSF
- SNOW LOAD DATA
  - GROUND SNOW LOAD: PG = 30 PSF
  - MINIMUM FLAT-ROOF SNOW LOAD: PF = 30 PSF
  - SNOW LOAD EXPOSURE FACTOR: CE = 1.0
  - SNOW LOAD IMPORTANCE FACTOR: IS = 1.1 (RISK CATEGORY II)
  - THERMAL FACTOR: CT = 1.0
  - ALLOWANCE FOR DRIFTING SNOW PER THE CONNECTICUT STATE BUILDING CODE
- WIND DESIGN DATA
  - RISK CATEGORY III
  - ULTIMATE WIND SPEED: V/ULT = 130 MPH
  - WIND EXPOSURE CATEGORY: B
  - INTERNAL PRESSURE COEFFICIENTS: GC/PI = +/- 0.18
  - DESIGN WIND PRESSURES IN ACCORDANCE WITH ASCE7-16

**WOOD FRAMING NOTES**

- FRAMING LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE APA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", LATEST EDITION. MAXIMUM MOISTURE CONTENT SHALL BE 19%.
- PRESSURE TREATED WOOD MEMBERS USED FOR PLACEMENT AGAINST CONCRETE OR MASONRY (SILLS, PLATES, ETC.) SHALL BE PRESSURE TREATED WITH MCA PRESERVATIVE, OR APPROVED EQUAL, TO MINIMUM RETENTION OF 0.23 PCF IN ACCORDANCE WITH AWPAC 3.
- EXPOSED WOOD MEMBERS USED FOR STRUCTURAL FRAMING, DECKING, STAIRS, RAILS, BRACING, ETC. SHALL BE PRESSURE TREATED WITH MCA PRESERVATIVE, OR APPROVED EQUAL, TO MINIMUM RETENTION OF 0.23 PCF IN ACCORDANCE WITH AWPAC 3.
- NAILERS AND BLOCKING USED FOR STEEL BEAMS SHALL BE PRESSURE TREATED, SOUTHERN PINE, GRADE 2.
- THE FRAMING LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADE AND SPECIES FOR THE SPECIFIED USE, UNLESS OTHERWISE SPECIFIED:

LUMBER SHALL BE GRADE STAMPED BY A RECOGNIZED GRADING AGENCY AND SHALL BE SURFACE DRY.

**FOR EXPOSED PRESSURE TREATED MEMBERS\***

FLOOR JOISTS & BEAMS, #1 SOUTHERN PINE:  
FB = 1000 PSI, E = 1.5E6 PSI

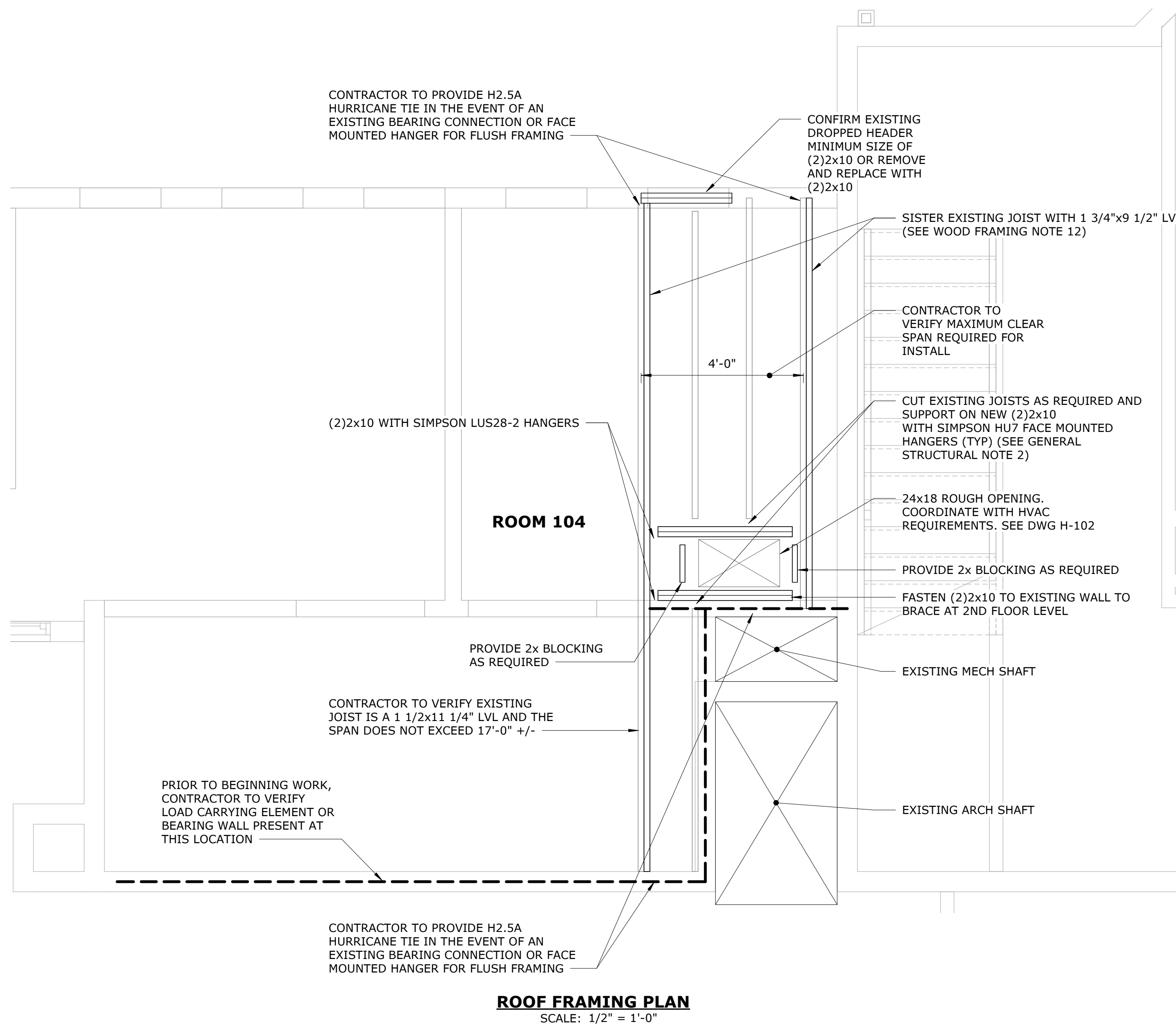
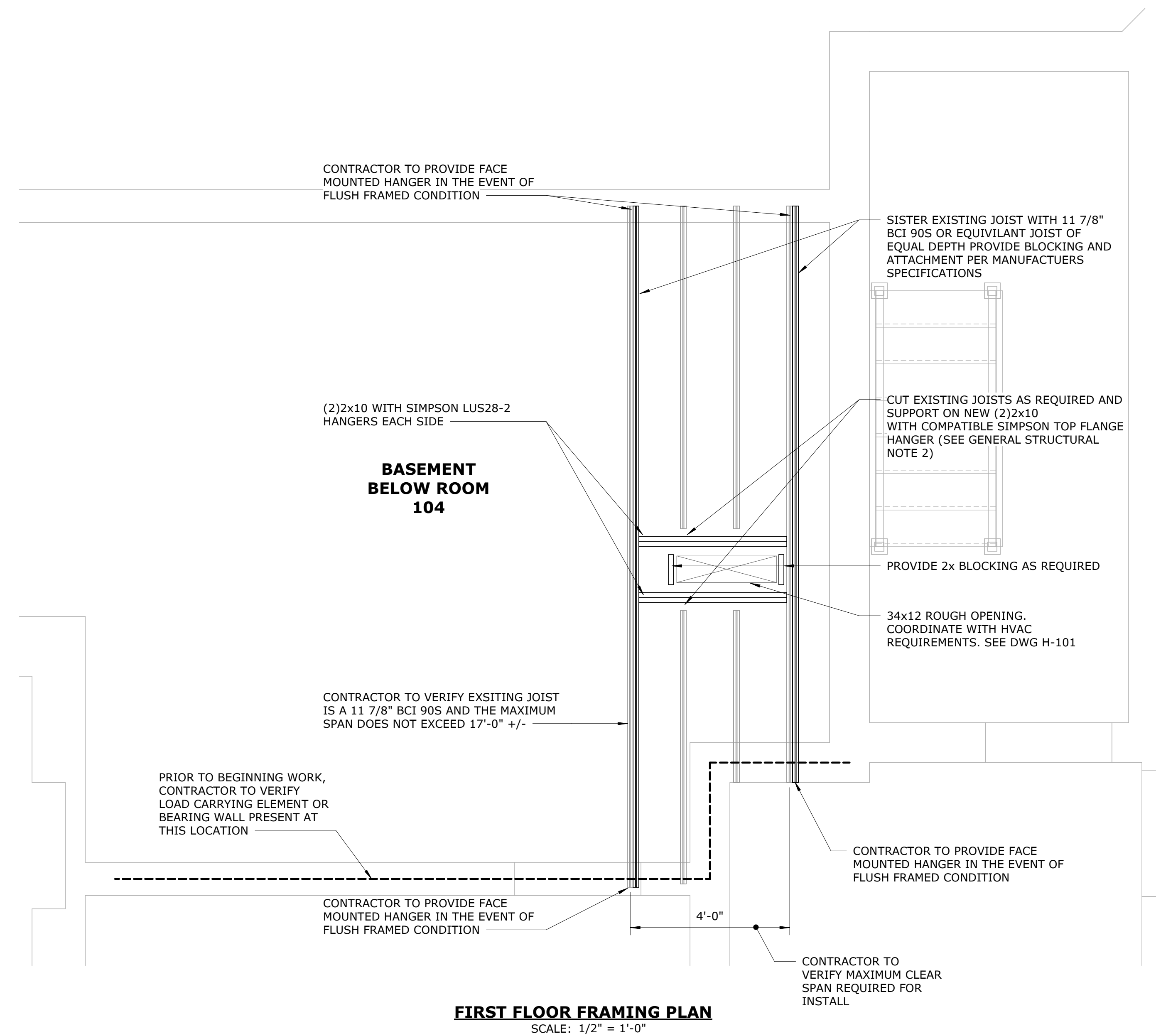
TIMBERS AND POSTS, #1 SOUTHERN PINE (5X5 & LARGER):  
FC = 800 PSI, E = 1.4E6 PSI

**FOR NON-EXPOSED MEMBERS\*\***

STUDS #2 SPRUCE PINE FIR:  
FC = 1150 PSI, E = 1.4E6 PSI

TIMBERS AND POSTS #1 DOUGLAS FIR (5X5 & LARGER):  
FB = 1000 PSI, E = 1.5E6 PSI

(\*DESIGN VALUES ADJUSTED ONLY BY CM)  
(\*\*DESIGN VALUES NOT ADJUSTED)
- ENGINEERED LUMBER PRODUCTS SHALL BE AS MANUFACTURED BY THE TRUSS JOIST CORPORATION, BOISE CASCADE, LOUISIANA PACIFIC CORPORATION OR APPROVED EQUAL.
- FOLLOW MANUFACTURER'S SPECIFICATIONS FOR ERECTION, INSTALLATION, AND PLACEMENT OF ENGINEERED LUMBER PRODUCTS. PENETRATIONS THROUGH ENGINEERED LUMBER PRODUCTS IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- LAMINATED VENEER LUMBER (LVL) TO HAVE A MINIMUM ALLOWABLE BENDING STRESS (FB) OF 3,100PSI. THE MINIMUM ALLOWABLE COMPRESSION STRESS (FC) PERPENDICULAR TO THE GRAIN SHALL BE 750 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 2,100,000 PSI. INSTALL LVL'S IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- PARALLEL STRAND LUMBER (PSL) TO HAVE A MINIMUM ALLOWABLE BENDING STRESS (FB) OF 2,400 PSI. THE MINIMUM ALLOWABLE COMPRESSION STRESS (FC) PARALLEL TO THE GRAIN SHALL BE 2,500 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,800,000 PSI. INSTALL PSL'S IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- LUMBER WHICH IS SPLIT, CRACKED, NOTCHED OR OTHERWISE ALTERED OR DAMAGED SHALL BE IMMEDIATELY REJECTED AND NOT ALLOWED FOR USE, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- WOOD PRODUCTS SHALL BE STORED IN A DRY LOCATION.
- JOISTS, RAFTERS, BEAMS, POSTS, STUDS OR ANY OTHER FRAMING MEMBER SHALL NOT BE CUT, NOTCHED, DRILLED, OR OTHERWISE MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- CONNECTORS AND FASTENERS USED TO SECURE ACQ PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
- NAILS, FASTENERS, AND CONNECTORS EXPOSED TO THE WEATHER SHALL BE STAINLESS STEEL.
- DETAILS OF WOOD FRAMING SUCH AS NAILING, BLOCKING, BRIDGING, FIRESTOPPING, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION (AFPA), THE TIMBER CONSTRUCTION MANUAL (ATC), AND ARCHITECTURAL GRAPHICS STANDARD BY CATHERINE TRUMAN ARCHITECTS.
- WHERE DIMENSIONAL FRAMING LUMBER IS FLUSH FRAMED TO ENGINEERED LUMBER OR STEEL GIRDERS, SET THESE GIRDERS 1/4" CLEAR BELOW THE TOP OF FRAMING LUMBER TO ALLOW FOR SHRINKAGE.
- WOOD STUD WALLS ARE TO BE 2x6 @ 16" O.C. UNLESS OTHERWISE SPECIFIED.
- RAFTERS AND JOISTS SHALL ALIGN WITH ONE ANOTHER AND WITH STUDS BELOW.
- USE DOUBLE TRIMMERS AND HEADERS AT FLOOR OPENINGS WHERE BEAMS ARE NOT DESIGNATED.
- LAP PLATES AND SILLS AT CORNERS AND AT INTERSECTIONS OF PARTITIONS.
- PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS UNDER EACH PARTITION. EACH END OF EACH JOIST SHALL BE FULL DEPTH BLOCKED AT THE SUPPORT LOCATION. PROVIDE JOIST BRIDGING AT MID-SPAN AND QUARTER POINTS, OR AS SHOWN ON DRAWINGS. BRIDGING PLACEMENT SHALL NOT EXCEED 8 FT. O.C. SPACING.
- USE FULLY NAILED METAL CONNECTORS (USP, SIMPSON, OR EQUAL), JOIST, OR BEAM HANGERS WHEN JOISTS OR BEAMS FRAME INTO OTHER JOISTS OR BEAMS. PROVIDE METAL POST CAPS AND BASES FOR POSTS. REFER TO FRAMING PLAN FOR CONNECTOR TYPES.
- FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING WOOD FRAMING MEMBERS USING AMERICAN PLYWOOD ASSOCIATION (A.P.A.) GLUED FLOOR SYSTEM. WOOD GLUE TO BE CONTECH, INC., PL400 SUB-FLOOR CONSTRUCTION ADHESIVE, OR APPROVED EQUAL.
- ROOF RAFTERS SHALL BE ATTACHED TO TOP WALL PLATES WITH SIMPSON H-1 OR H-10 CONNECTORS, FULLY NAILED, UNLESS OTHERWISE SPECIFIED.
- PLYWOOD ROOF AND WALL SHEATHING SHALL BE ATTACHED TO EACH SUPPORTING FRAME MEMBER. FASTENERS SHALL BE 10d WITH A MINIMUM 1-5/8" PENETRATION INTO EACH FRAME MEMBER (STUD, JOIST, RAFTER, BEAM ETC.) UNLESS NOTED OTHERWISE. PANEL PERIMETER FASTENING SHALL BE 3" ON CENTER STAGGERED, AND PANEL FIELD FASTENING SHALL BE 6" ON CENTER, UNLESS OTHERWISE SPECIFIED. JOINTS IN SHEATHING SHALL BE STAGGERED, EACH DIRECTION.
- CONTRACTOR TO PROVIDE SUBMITTAL FOR LUMBER, ENGINEERED WOOD PRODUCTS AND ATTACHMENT INCLUDING HANGERS, CONNECTORS AND NAILS.



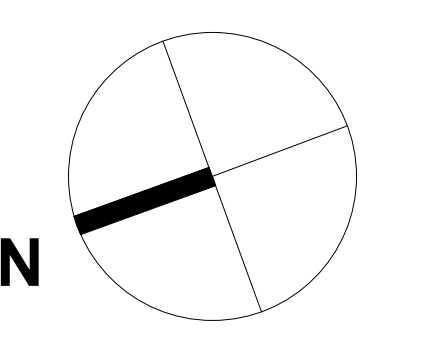
Revision Schedule	
Date	Description

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COLLIERS

**MEP Engineer**  
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PROJECT

**Fair Haven Community Health Care FHCHC**

**1st Floor Renovation**

ADDRESS

**STRUCTURAL PART PLANS & NOTES**

SEAL & SIGNATURE	DATE: 04/09/2025
	PROJECT No: F5050
	DRAWING BY: JWH
	CHK BY: MBO/JF
	DWG No: <b>S-101</b>