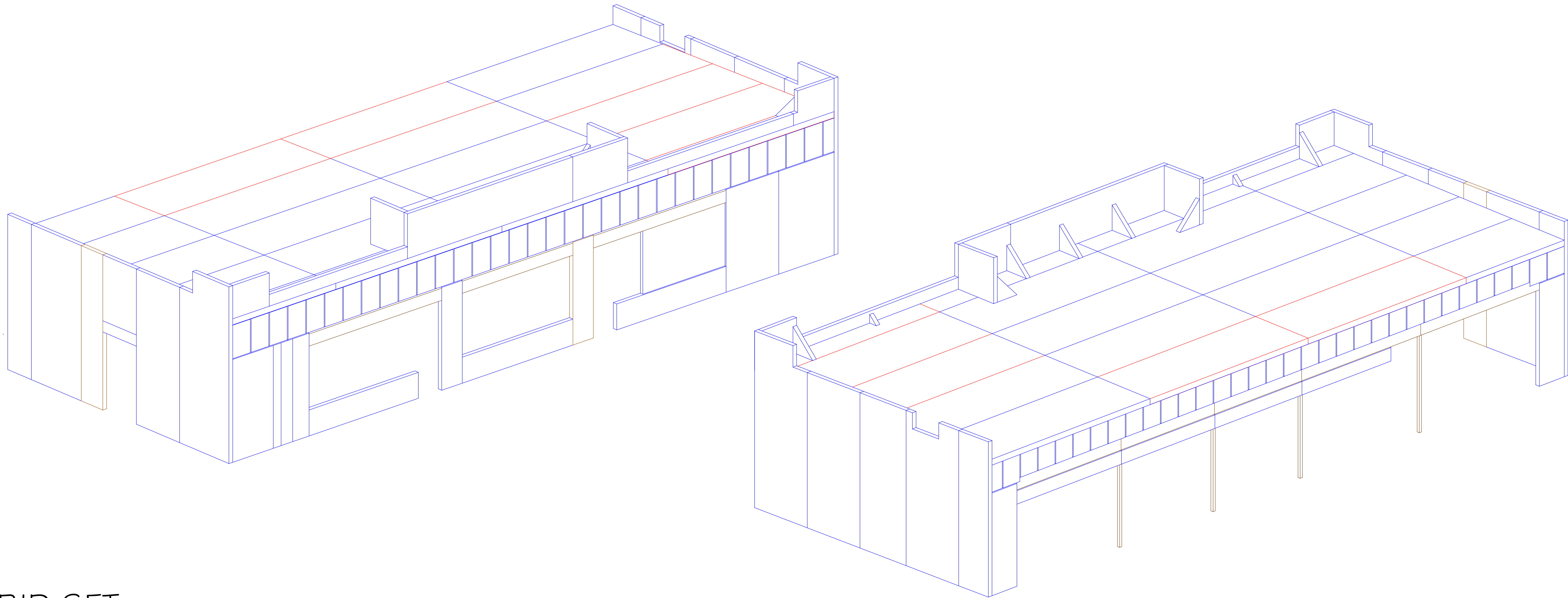


# 75034 - Circle K Angier NC 22130



**PorterSIPS™**  
structural insulated panels

**PORTER**  
CORP.

4240 136th Avenue  
Holland, MI 49424  
616-888-3500

DAG	DATE
	01/23/2023
ORDER NUMBER - POSITION	
75034 - 000	
SCALE	
3/16" = 1'-0"	
REVISION	DATE
1	02-15-23
2	01-03-24
3	...
4	...

## BID SET

SHOP DRAWING REVIEW		CUSTOMER CHECKLIST	R-VALUES & U-FACTORS								SIP PANEL INFO	STRUCTURAL DESIGN CRITERIA	SHEET INDEX																																									
<p>NO EXCEPTION TAKEN MAKE NOTED CORRECTIONS</p> <p>If checked above, fabrication may begin. The check does not authorize changes to the sales order unless stated separately.</p>	<p>REJECTED REVISE &amp; RESUBMIT</p> <p>If checked above, fabrication will not begin. Please mark necessary corrections for resubmittal. Corrections made will be limited to items marked up.</p>	<p>THIS CHECKLIST IS PROVIDED TO ASSIST CUSTOMERS WITH THE REVIEW OF THE SIP PANEL LAYOUT DRAWINGS AGAINST THE INFORMATION PROVIDED ON FILE. THIS HELPS TO ENSURE THE QUALITY OF THE SIP PRODUCT AND EASE OF CONSTRUCTION IN THE FIELD.</p> <p>SIP DRAWING SET IS BASED OFF: 1) ARCHITECTURAL DWGS DATED: 08-20-21 2) STRUCTURAL DWGS DATED: 08-20-21 3) CAD DRAWINGS DATED: NA</p>	<table border="1"> <thead> <tr> <th>NOMINAL PANEL THICKNESS (7/16" OSB)</th> <th>CORE THICKNESS EPS TYPE I</th> <th>R-VALUE @ 75° F</th> <th>U-FACTOR @ 75° F</th> <th>R-VALUE @ 25° F</th> <th>U-FACTOR @ 25° F</th> <th>R-VALUE @ -25° F</th> <th>U-FACTOR @ -25° F</th> </tr> </thead> <tbody> <tr> <td>4-5/8"</td> <td>3-3/4"</td> <td>15.6</td> <td>0.064</td> <td>16.9</td> <td>0.059</td> <td>18.5</td> <td>0.054</td> </tr> <tr> <td>6-5/8"</td> <td>5-3/4"</td> <td>23.3</td> <td>0.043</td> <td>25.4</td> <td>0.039</td> <td>27.8</td> <td>0.036</td> </tr> <tr> <td>8-3/8"</td> <td>7-1/2"</td> <td>30.1</td> <td>0.033</td> <td>32.8</td> <td>0.030</td> <td>33.9</td> <td>0.028</td> </tr> <tr> <td>10-3/8"</td> <td>9-1/2"</td> <td>37.9</td> <td>0.026</td> <td>41.3</td> <td>0.024</td> <td>42.6</td> <td>0.022</td> </tr> <tr> <td>12-3/8"</td> <td>11-1/2"</td> <td>45.6</td> <td>0.022</td> <td>49.8</td> <td>0.020</td> <td>51.4</td> <td>0.018</td> </tr> </tbody> </table>	NOMINAL PANEL THICKNESS (7/16" OSB)	CORE THICKNESS EPS TYPE I	R-VALUE @ 75° F	U-FACTOR @ 75° F	R-VALUE @ 25° F	U-FACTOR @ 25° F	R-VALUE @ -25° F	U-FACTOR @ -25° F	4-5/8"	3-3/4"	15.6	0.064	16.9	0.059	18.5	0.054	6-5/8"	5-3/4"	23.3	0.043	25.4	0.039	27.8	0.036	8-3/8"	7-1/2"	30.1	0.033	32.8	0.030	33.9	0.028	10-3/8"	9-1/2"	37.9	0.026	41.3	0.024	42.6	0.022	12-3/8"	11-1/2"	45.6	0.022	49.8	0.020	51.4	0.018	<p>THIS ORDER USES THE FOLLOWING PANEL TYPES</p> <p><b>SIP ROOF PANEL:</b></p> <p>TOP SKIN: 7/16" OSB BOTTOM SKIN: 7/16" OSB OSB TREATMENTS: NONE</p> <p><b>SIP WALL PANEL:</b></p> <p>OUTSIDE SKIN: 7/16" OSB INSIDE SKIN: 7/16" OSB OSB TREATMENTS: NONE</p> <p><b>SIP FLOOR PANEL:</b></p> <p>TOP SKIN: 7/16" OSB BOTTOM SKIN: 7/16" OSB OSB TREATMENTS: NONE</p>	<p>DESIGN CODE: NCBC 2018 SNOW LOAD: Pg = 15 PSF</p> <p>ROOF LOADS: LL = 20 PSF DL = PER PLAN</p> <p>WIND LOAD: Wind Speed: 116 MPH Wind Exposure: C</p> <p>SEISMIC DESIGN: Ss = 0.172 Si = 0.083 Design Category: B Site Class: D</p>	<p>W-0.0 COVER PAGE W-0.1 GENERAL NOTES W-0.2 GENERAL NOTES</p> <p>W-1.0 FIRST FLOOR PLAN</p> <p>W-2.0 NORTH / SOUTH ELEV. W-2.1 WEST / EAST ELEVATION W-2.2 WALL ELEVATIONS W-2.3 WALL ELEVATIONS</p> <p>W-3.1 ROOF PANEL PLAN</p> <p>W-4.0 BUILDING SECTION</p> <p>W-5.0 CONSTRUCTION DETAILS W-5.1 CONSTRUCTION DETAILS W-5.2 CONSTRUCTION DETAILS W-5.3 CONSTRUCTION DETAILS</p>
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<p>ORDER # <u>75034</u> PRINT NAME _____</p> <p>DATE _____ SIGNATURE _____</p>		<p>VERIFY OVERALL ROOF DIMENSIONS</p> <p>VERIFY ROOF PITCHES</p> <p>VERIFY OVERHANG TYPE &amp; DIMENSION</p> <p>VERIFY SUPPORT BEAMS AND LOCATIONS</p> <p>VERIFY WINDOW / DOOR LOCATIONS &amp; SIZES</p> <p>VERIFY WALL HEIGHT DIMENSIONS</p> <p>VERIFY FLOOR THICKNESS &amp; DIMENSIONS</p> <p>VERIFY OVERALL WALL DIMENSIONS</p> <p>PROVIDE ROOF / FLOOR TRUSS LAYOUT</p> <p>NOTE ANY CUSTOM WIRE CHASE LOCATIONS</p> <p>CHECK &amp; SIGN OFF REVIEW BOX</p>	<p><b>ABBREVIATIONS / SYMBOL LEGEND</b></p> <p>A.B. = ANCHOR BOLTS EXT. = EXTERIOR INT. = INTERIOR O.C. = ON CENTER R.O. = ROUGH OPENING SIM. = SIMILAR S.F.B.O. = STICK FRAMED BY OTHERS SJS = INSULATED HEADER TRIM. = TRIMMER TYP. = TYPICAL U.N.O. = UNLESS NOTED OTHERWISE</p> <p>1/2" SLOPE MARKER ELEVATION MARKER SIP PANEL CONCRETE WINDOW / DOOR HOLD DOWN REVISION PLAN NORTH DETAIL CALLOUT SECTION MARKER</p>	<p>TYPICAL PANEL NUMBERING SYSTEM: 100 SERIES = SIP WALL PANEL NUMBERS 400 SERIES = SIP FLOOR PANEL NUMBERS 600 SERIES = SIP ROOF PANEL NUMBERS</p>	<p>ENGINEERING COMPANY &amp; SEAL (IF REQ'D)</p> <p><b>Pinnacle Engineering of Ohio, Inc.</b> 8180 Corporate Park Drive Suite 235 Cincinnati, Ohio 45242 (513) 984-1668 Fax: (513) 984-1688 projects@pinnaceng.com North Carolina Certificate of Authorization C-4409</p> <p>PROFESSIONAL SEAL JAMES W. PRITCHARD ENGINEER January 18, 2024</p>	<p>COVER PAGE</p> <p>W-0.0</p>																																																

Circle K Angier NC 22130  
Main Building

**DESIGN CRITERIA:**

BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE  
OCCUPANCY CATEGORY = II

**LIVE LOAD**  
 ROOF LIVE LOAD: 20 PSF  
 GROUND SNOW LOAD (Pg): 15 PSF  
 FLAT ROOF SNOW LOAD (Pf): 11.6 PSF  
 SNOW EXPOSURE FACTOR (Ce): 1.0  
 SNOW LOAD IMPORTANCE FACTOR (I): 1.0  
 THERMAL FACTOR (Ct): 1.1  
 NOTE: ADDITIONAL LOADING DUE TO DRIFTING AT CHANGES IN ROOF ELEVATIONS AND ICE AT OVERHANGS PER APPLICABLE CODE.

**DEAD LOAD**  
 ROOF DEAD LOAD: PER FRAMING PLAN PSF

**WIND LOAD**  
 BASIC WIND SPEED (V): 116 MPH  
 WIND IMPORTANCE FACTOR (I): 1.0  
 EXPOSURE CATEGORY: C

**SEISMIC LOAD**  
 DESIGN CATEGORY: B  
 SITE CLASSIFICATION: D  
 SEISMIC IMPORTANCE FACTOR (Ie): 1.0  
 MAPPED SPECTRAL RESPONSE ACCELERATION  
 Ss = 0.172  
 Si = 0.083  
 SPECTRAL RESPONSE COEFFICIENTS  
 SDs = 0.184  
 SD1 = 0.132

NOTE: THE STRUCTURE IS DESIGNED FOR THE ABOVE LIVE LOADS IN ADDITION TO THE LATERAL LOADS, SUPERIMPOSED DEAD LOADS AND SELF-WEIGHT OF THE STRUCTURE. WHERE APPLICABLE, THE LIVE LOADS ARE REDUCED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE. THE SNOW LOADS ON LOWER ROOFS ADJACENT TO HIGH ROOFS OR SLOPED ROOFS ARE INCREASED FOR THE EFFECT OF DRIFTING.

BUILDING IS NOT DESIGNED FOR FUTURE VERTICAL OR HORIZONTAL EXPANSION.

**POST-INSTALLED ANCHORS:**

- POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. DO NOT USE IMPACT WRENCH TO SET OR TIGHTEN POST-INSTALLED ANCHORS. ALL POST-INSTALLED ANCHORS SHALL BE TORQUED TO MANUFACTURER'S REQUIREMENTS. ALL POST-INSTALLED ANCHORS SHALL REQUIRE CONTINUOUS SPECIAL INSPECTION PER LOCAL CODE.
- ADHESIVE ANCHORS (CONCRETE): COMPLY WITH ICC AC 308, AND SHALL BE ONE OF THE FOLLOWING:
  - SIMPSON SET-XP (ICC-ES ESR-2508)
  - HILTI HIT-HY 200 (ICC-ES ESR-2322) OR APPROVED EQUAL
- EXPANSION ANCHORS (CONCRETE): COMPLY WITH ICC AC 193, AND SHALL BE ONE OF THE FOLLOWING:
  - SIMPSON STRONG-BOLT WEDGE ANCHOR (ICC-ES ESR-1771) OR APPROVED EQUAL
- SCREW ANCHORS (CONCRETE): COMPLY WITH ICC AC 193, AND SHALL BE ONE OF THE FOLLOWING:
  - SIMPSON TITEN HD (ICC-ES ESR-2713) OR APPROVED EQUAL.
- MINIMUM EMBEDMENT OF BOLTS IN GROUT, OR CONCRETE: AS NOTED ON SIP DETAIL PAGE.
- POST INSTALLED ANCHORS TO BE INSTALLED IN CONCRETE BASE MATERIAL SHALL HAVE CURRENT ICC APPROVAL FOR USE IN BOTH CRACKED AND UNCRACKED CONCRETE IN ACCORDANCE WITH ACI 355.2, ICC ES AC193, AND ICC ES AC308.

**POST INSTALLED ANCHORS (CONT.)**

- POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIED IN THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORDED PRIOR TO USING POST INSTALLED ANCHORS IN PLACE OF MISSING OR INCORRECTLY LOCATED CAST-IN-PLACE ANCHORS. CARE SHOULD BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.
- POST INSTALLED ANCHORS IN CONCRETE OR CONCRETE MASONRY UNITS WHEN NOT EXPOSED TO EARTH, WEATHER, OR CORROSIVE ENVIRONMENT SHALL BE AS NOTED BELOW:
  - EXPANSION ANCHORS SHALL BE STUD TYPE WITH A STEEL EXPANSION SLEEVE (WEDGE) AND ZINC COATING IN ACCORDANCE WITH ASTM B633.
  - THREADED ANCHOR RODS FOR EPOXY ADHESIVE ANCHORS IN CONCRETE SHALL BE ASTM A193 GRADE B7, ASTM A36, ASTM F1554 GRADE 36 OR AS NOTED IN THE DRAWINGS.
- POST INSTALLED ANCHORS IN CONCRETE OR CONCRETE MASONRY UNITS WHEN EXPOSED TO EARTH, WEATHER, OR CORROSIVE ENVIRONMENT SHALL BE MANUFACTURED FROM AISI 304/316 STAINLESS STEEL.
  - HOLE SHALL BE DRILLED WITH A BIT AND SHALL BE CLEAN & FREE OF DUST USING A METHOD THAT COMPLIES WITH ALL THE MANUFACTURER'S WRITTEN INSTRUCTIONS. DO NOT CUT OR DAMAGE REINFORCING STEEL OR TENDONS DURING DRILLING OPERATIONS.

**WOOD CONSTRUCTION**

- STRUCTURAL SAWN LUMBER, GLUED LAMINATED TIMBER AND CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "2015 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".
- PLYWOOD HAS BEEN DESIGNED IN ACCORDANCE WITH THE APA "1998 PLYWOOD DESIGN SPECIFICATION".
- STRUCTURAL COMPOSITE LUMBER SHALL CONFORM TO ASTM D 5456 WITH THE FOLLOWING ALLOWABLE DESIGN STRESSES:
 

MICROLAM LVL	PARALLAM PSL	TIMBER STRAND LSL
E = 1900 KSI	E = 2000 KSI	E = 1500 KSI
Fb = 2600 PSI	Fb = 2900 PSI	Fb = 2250 PSI
Fc(par) = 2310 PSI	Fc(par) = 2900 PSI	Fc(par) = 1950 PSI
Fc(perp) = 750 PSI	Fc(perp) = 650 PSI	Fc(perp) = 650 PSI
Fv = 285 PSI	Fv = 290 PSI	Fv = 285 PSI
- ORIENTED STRAND BOARD (OSB) SHALL CONFORM TO "VOLUNTARY PRODUCT STANDARD PS2-10 PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL - SIP PANELS".
- PREFABRICATED WOOD I-JOIST SHALL CONFORM TO ASTM D 5055
- ROOF SHEATHING OVER WOOD FRAMING: USE 1/2" A.P.A. RATED PLYWOOD WITH EXTERIOR GLUE PS 1 OR A.P.A. RATED ORIENTED STRAND BOARD (O.S.B.) WITH EXTERIOR GLUE PS 2, 32/16 SPAN INDEX. PANEL EDGES SHALL BEAR ON THE FRAMING MEMBER AND BUTT ALONG THEIR CENTER LINE. STAGGER JOINTS. FASTEN SHEATHING WITH 8d COMMON, 0.131 x 2 1/2" FASTENER SPACINGS SHALL BE 6" O.C. AT DIAPHRAGM BOUNDARY NAILING AND AT SUPPORTED PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS INCLUDING EACH OF ANY MULTIPLE MEMBERS. MINIMUM EDGE DISTANCE 3/8" WITH 1/8" GAP BETWEEN SHEETS. LAY UP SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. SHEATHING SHALL CONFORM TO ICC ESR-2586.
- PROVIDE ONE LINE OF BRIDGING FOR EACH 8'-0" OF SPAN FOR ROOF JOISTS AND FLOOR JOISTS. THE BRIDGING SHALL CONSIST OF 1" BY 3" LUMBER, DOUBLE NAILED AT EACH END OR EQUIVALENT METAL BRACING OF EQUAL RIGIDITY OR FULL DEPTH SOLID BLOCKING.
- JOIST SHALL BE SUPPORTED Laterally AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING NOT LESS THAN 2" IN THICKNESS AND THE FULL DEPTH OF THE JOIST.

**WOOD CONSTRUCTION (CONT.)**

- HOLE BORED IN JOISTS SHALL NOT BE WITHIN 2" OF THE TOP OR BOTTOM OF THE JOIST AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED 1/3 THE DEPTH OF THE JOIST. BORING HOLES IN PRE-ENGINEERED JOIST ARE NOT ALLOWED WITHOUT APPROVAL FROM THE MANUFACTURER.
- JOIST FRAMING FROM OPPOSITE SIDE OF A BEAM, GIRDER OR BEARING WALL SHALL BE LAPPED AT LEAST 3".
- JOIST FRAMING INTO THE SIDE OF A WOOD GIRDER SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS.
- ALL STRUCTURAL LUMBER FOR STUDS AND FRAMING LUMBER GRADE (MINIMUM): SPF NO.2 OR BETTER.
- BEARING AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS. END JOISTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48" AND SHALL BE NAILED WITH NOT LESS THAN (8) 16D FACE NAILS ON EACH SIDE OF THE JOINT.
- BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307.
- NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F-1667.
- THE NAILING SCHEDULE FOR WOOD FRAMING ELEMENTS SHALL COMPLY WITH THE BUILDING CODE OF RECORD.
- LUMBER SHALL BE HANDLED AND COVERED AS TO PREVENT MARRING AND MOISTURE ABSORPTION FROM SNOW OR RAIN UNTIL THE BUILDING IS ENCLOSED.
- ERECTION OF STRUCTURAL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH AITC-105 AND THE CODE OF STANDARD PRACTICE AITC-106.
- FABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES OF WOOD CONSTRUCTION, SUCH AS WOOD TRUSSES, SHALL BE BY AN APPROVED FABRICATOR OR MANUFACTURE.



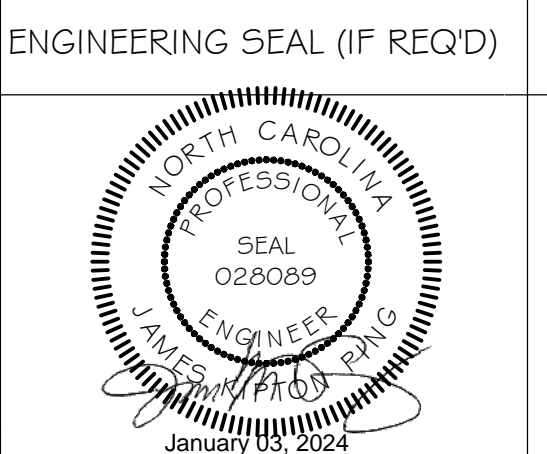
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Circle K Angier NC 22130  
Main Building



8180 Corporate Park Drive Suite 235 Cincinnati, Ohio 45242 (513)-984-1663 Fax: (513)-984-1688 projects@pinnacle.com North Carolina Certificate of Authorization C-4409



CLICK CODE TO REFERENCE WEBSITE FOR INSTALLATION GUIDE, NTA REPORT OR CONSTRUCTION DETAILS / TECHNICAL BULLETINS



GENERAL NOTES

W-0.1

BID SET

PREFABRICATED WOOD TRUSSES

I. SUBMITTALS

A. WOOD TRUSS SHOP DRAWINGS

1. TRUSS LAYOUT DEPICTING THE TRUSS ID AND LOCATION, SPACING, SPANS, GIRDER LOCATIONS, PIGGYBACK BASE AND CAP LOCATION AND REQUIRED HANGERS AND/OR CLIPS. EXACT PLACEMENT TO BE DETERMINED BY THE TRUSS MANUFACTURE.
2. TRUSS SHOP DRAWINGS AND CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. DESIGN LOADS LISTED SHALL BE BASED ON SITE SPECIFIC WIND AND GROUND SNOW LOADS AND MEET ALL STATE AND LOCAL BUILDING CODES. ALL BRACING REQUIREMENTS NOTED ON THE SHOP DRAWING.
3. SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS FOR REVIEW TO ARCHITECT / E.O.R. FOR THE ASSEMBLY OF PREFABRICATED, ENGINEERED WOOD TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS.

B. QUALITY ASSURANCE

1. ALL PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO MEET THE JOB SITE LOADING REQUIREMENTS. FABRICATION AND ERECTION SHALL BE PER TRUSS PLATE INSTITUTE, AMERICAN FOREST PRODUCTS ASSOCIATION, WOOD TRUSS COUNCIL OF AMERICA AND NATIONAL DESIGN STANDARD SPECIFICATIONS.
2. WOOD TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURE. THE MANUFACTURE'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN ADEQUACY AND SAFETY OF ALL WOOD TRUSSES.
3. FOR TRUSSES BROKEN OR SPLIT WEBS / CHORDS, DAMAGED OR MISSING PLATES OR ANY FIELD MODIFICATIONS, THE FOLLOWING INFORMATION NEEDS TO BE RELAYED TO THE TRUSS MANUFACTURE'S ENGINEER:
  - TRUSS ID
  - LOCATION OF TRUSS ON LAYOUT
  - IS TRUSS INSTALLED OR ON GROUND
  - EXACT LOCATION AND DIMENSION OF BREAK OR DAMAGE
  - PHOTOGRAPH OF AREA IN QUESTION

C. MATERIALS

1. TOP CHORDS, BOTTOM CHORDS AND WEBS CONSISTING OF MSR/MEL LUMBER TO MEET DESIGN REQUIREMENTS. LUMBER SHOULD BE FREE OF DEFECTS, SUCH AS KNOTS, WANE OR SPLITTING.
2. ATTACHMENTS OF CHORDS OR WEBS SHALL BE A GALVANIZED METAL PLATE IN ACCORDANCE TO ANSI / TPI 1 -20 1 4. PLATE SIZE AND PLACEMENT TO MATCH REQUIREMENTS NOTED ON TRUSS DRAWING. DAMAGED, MIS-ALIGNMENT OR PULLED OUT PLATES MUST BE REVIEWED BY TRUSS MANUFACTURE'S ENGINEER.
3. CONNECTIONS OF WOOD TRUSSES SHALL BE MADE WITH APPROPRIATE TRUSS HANGERS SIZED BY TRUSS MANUFACTURE. HANGERS, CLIPS OR HOLD DOWNS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR AN APPROVED ALTERNATIVE FOR LOADS SPECIFIED.

D. HANDLING & INSTALLATION

1. INSPECT TRUSSES UPON ARRIVAL TO JOB SITE FOR CONFORMANCE WITH TRUSS DRAWINGS, DAMAGED OR MISSING PLATES, CRACKED OR BROKEN MEMBERS OR ANY OTHER DAMAGE. DO NOT CUT OR DRILL HOLES INTO ANY TRUSS MEMBER OR METAL CONNECTOR.
2. THE DESIGN AND ERECTION OF WOOD TRUSSES, INCLUDING PERMANENT BRACING AND TEMPORARY BRACING, SHALL CONFORM TO THE COMMENTARY AND RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE.

SIP GENERAL / STANDARD NOTES:

1. BEFORE ASSEMBLING THE PORTERSIP PACKAGE, PORTERCORP REQUIRES THE PANEL INSTALLER, GENERAL CONTRACTOR, PROJECT MANAGER, DEVELOPER AND ARCHITECT TO BE FAMILIAR WITH THE PORTERSIP INSTALLATION DRAWINGS. BY USE OF THESE SIP DRAWINGS AND DOCUMENTS, THE GENERAL CONTRACTOR, DEVELOPER AND PROJECT MANAGER CERTIFY THAT THEY HAVE STUDIED THESE SUBMITTAL DRAWINGS AND ACCEPT THE CONTENT.
2. PORTERCORP PUTS FORTH GREAT EFFORT TO PRODUCE THE MOST COMPLETE SET OF SUBMITTAL DRAWINGS POSSIBLE BASED ON THE MOST RECENT SET OF ARCHITECTURAL DRAWINGS PROVIDED. IT IS THE RESPONSIBILITY OF THE ARCHITECT TO CHECK AND VERIFY ALL DIMENSIONS, NOTES AND DETAILS ON THE PANEL DRAWINGS FOR CONFROMITY WITH THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS PRIOR TO BEGINNING THE PROJECT.
3. IT IS NOT PORTERCORP'S RESPONSIBILITY TO VERIFY CODE REQUIREMENTS. THIS RESPONSIBILITY WILL BE THE GENERAL CONTRACTOR, DEVELOPER AND PROJECT MANAGER.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE A LEVEL AND SQUARE FOUNDATION / SLAB TO SAFEGUARD A GOOD FIT OF THE PORTERSIP PRODUCT. PORTERCORP WILL NOT ASSUME RESPONSIBILITY FOR ANY VARIENCES FROM THE FINAL SIGNED PANEL DRAWINGS AND SPECIFICATIONS OR ADJUSTMENTS REQUIRED RESULTING FROM THE CONDITIONS REALIZED ON THE SITE, AND IT IS THE SOLITARY RESPONSIBILITY OF THE GENERAL CONTRACTOR.
5. ALL STATED DIMENSIONS DEMONSTRATED ON THESE DRAWINGS, SECTIONS AND DETAILS TAKE PRIORITY OVER SCALED DRAWINGS.
6. THE INSTALLER/GC SHALL ASSUME RESPONSIBILITY TO DETERMINE ALL MATERIALS REQUIRED FOR PROPER SIP PANEL INSTALLATION. THIS INCLUDES MATERIALS SUPPLIED BY PORTER AND ADDITIONAL MATERIALS REQUIRED TO COMPLETE THE SIP INSTALLATION. ALL LUMBER TO BE SPF #2 OR BETTER GRADE.
7. THE INSTALLER/GC IS RESPONSIBLE TO ENSURE PROPER SIP PANEL INSTALLATION WITH ADHEASIVE AND FOAM FOLLOWING THE CONNECTION DETAILS PROVIDED. IT IS IMPORTANT TO AVOID ANY POTENTIAL AIR LEAKS OR CONDENSATION ISSUES.
8. FOR SIP ROOFS, INSTALL A VAPOR-PERMEABLE ROOF MEMBRANE AFTER ALLOWING ROOF TO DRY IF THE ROOF BECOMES WET. APPLY SIP TAPE AT THE PANEL JOINTS ON THE "WARM" SIDE OF THE ROOF. IN MOST COLD CLIMATES, TAPE SHOULD BE PLACED ON THE INTERIOR SIDE OF PANELS. IN HOT AND HUMID CLIMATES, SUCH AS GULF COAST AND FLORIDA, THE TAPE SHOULD BE PLACED ON THE EXTERIOR OF PANELS.
9. AN AIR TIGHT BUILDING IS CREATED WHEN A SIP BUILDING IS PROPERLY SEALED. IT IS THE GC'S RESPONSIBILITY TO ENSURE THE VENTILATION OF THE BUILDING WILL MEET PROPER HUMIDITY LEVELS AND AIR QUALITY.
10. THE INSTALLER/GC MAY EXPERIENCE GROWTH IN PANELS AT PANEL JOINTS DUE TO VARIABLES SUCH AS LUMBER THICKNESS, SIP PANEL SWELLING, FABRICATION TOLERANCES, ETC. FIELD CUTTING THE SIP PANEL MAY BE REQUIRED TO MAINTAIN THE DIMENSION ON THE PLANS. ADVICE CAN BE GIVEN ON THIS ISSUE BY CONTACTING OUR QUALITY CONTROL DEPARTMENT.

SIP DELIVERY / STORAGE

SIP PANELS ARE OFTEN DELIVERED VIA TRACTOR AND FULL-LENGTH TRUCK. DUE TO THE SIZE AND WEIGHT OF THE TRUCK, AN IMPORVED ROADWAY SURFACE WITH SUFFICIENT CLEARANCE (APPROX. 13') IS REQUIRED. THE OFF-LOADING OF PANELS IS THE RESPONSIBILITY OF THE INSTALLER / GC. LARGE CAPACITY FORKLIFT WITH MINIMUM 5' FORKS OR FORK EXTENSIONS IS RECOMMENDED. IN ORDER TO REDUCE FREIGHT COSTS AND REDUCE THE NUMBER OF TRUCKS REQUIRED, SIP PANELS ARE NOT SHIPPED IN NUMERICAL SEQUENCE. FOR ORDERS OF 3 TRUCKS OR LARGER, COLOR CODES WILL BE USED TO GROUP THE PANELS BY AREAS OF THE BUILDING AND THESE COLOR GROUPS WILL BE SHIPPED TOGETHER. PANELS WILL BE DELIVERED WRAPPED IN HEAT SHRINK PLASTIC. IF FOR ANY REASON THE PANELS ARE NOT WRAPPED WHEN ARRIVAL, TARP THEM TO PROTECT FROM THE ELEMENTS AND USE SUPPORTS APPROXIMATELY EVERY 8' MAXIMUM TO KEEP PANELS ELEVATED AND UNIFORM ON LEVEL GROUND. EXTENDED STORAGE FOR MORE THAN 60 DAYS MAY CREATE PROBLEMS WITH THE SIP PANELS, SUCH AS EDGE SWELLING OR MOLD AND MILDEW OF WHICH PORTER WILL NOT ASSUME RESPONSIBILITY FOR.

SIP GUIDELINES:

1. ALWAYS HANDLE SIPS WITH CARE. DO NOT LIFT PANELS BY TOP SKIN OR DROP ON CORNERS.
2. USE MANUFACTURE CONSTRUCTION SEALANT ON ALL WOOD TO WOOD CONNECTIONS. USE MANUFACTURE FOAM SEALANT ON WOOD TO EPS AND EPS TO EPS CONNECTIONS. FILL ALL VOIDS WITH EXPANDING FOAM.
3. SIP WALL PANELS CANNOT BEAR DIRECTLY ON CONCRETE. TREATED LUMBER WITH SILL SEAL REQUIRED UNDER SIP OSB SKINS. TREATED PLATE TO BE RIPPED TO WIDTH OF SIP WALL PANELS. CLEAN DEBRIS FROM SILL PLATE BEFORE INSTALLING SIP PANELS.
4. PROVIDE LEVEL AND SQUARE FOUNDATIONS OR FLOOR DECKS TO SUPPORT SIP WALLS. TOLERANCES SHOULD BE 1/4" OR LESS IN 40'-0".
5. DO NOT INSTALL RECESSED CAN LIGHTING INTO SIP PANELS, AS THE HEAT CAN DAMAGE THE EPS FOAM CORE.
6. DO NOT CUT OSB SKINS FOR ELECTRICAL WIRE CHASES, USE FACTORY PROVIDED WIRE CHASES (1" DIAMETER). PLUMBING IS NOT ALLOWED INSIDE SIP PANELS.
7. USE TRUFEST SIP FASTENERS TO SECURE SIP PANELS. DO NOT OVER TIGHTEN SCREWS, WASHERS ARE RECOMMENDED TO PREVENT OVERTIGHTENING. USE SIPTP SCREWS FOR SIP TO WOOD CONNECTIONS, SIPLD SCREWS FOR SIP TO 18 GA THRU 22 GA METAL CONNECTIONS AND SIPHD SCREWS FOR SIP TO 16 GA THRU 1/4" STEEL. PROPER DRILL RPM MUST BE MAINTAINED FOR SIPHD SCREWS TO PREVENT DRILL TIP BURN OUT.
8. LUMBER GRADE USED IN SIP PANELS TO BE MINIMUM Car 2 SPF OR BETTER, KILN DRIED.
9. 12-3/8" SIP PANEL WEIGHS 3.8 PSF, 10-3/8" SIP PANEL WEIGHS 3.6 PSF, 8-3/8" SIP PANEL WEIGHS 3.5 PSF, 6-5/8" SIP PANEL WEIGHS 3.3 PSF & 4-5/8" SIP PANEL WEIGHS 3.2 PSF (DOES NOT INCLUDE ANY LUMBER OR SPLINES INSTALLED IN PANEL).
10. MECHANICAL VENTILATION IS RECOMMENDED, SUCH AS HRV OR ERV. CONSULT AN HVAC CONTRACTOR TO PROPER SIZE MECHANICAL SYSTEMS.
  1. ALL NAILS SUPPLIED BY CONTRACTED INSTALLER.
  2. PROTECT SIP PANELS FROM THE ELEMENTS AFTER INSTALLATION.

COORDINATION OF TRADES:

AFTER THE SIP STRUCTURE HAS BEEN ASSEMBLED, ANY ALTERATIONS, CUTS, PENETRATIONS, DAMAGE, ETC. OF THE INTERIOR AND/OR EXTERIOR OSB SKINS OF THE SIP PANELS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IF FOR ANY REASON, FIELD MODIFICATIONS OF THE SIP PANELS ARE REQUIRED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND PROJECT MANAGER TO NOTIFY PORTERCORP, PRIOR TO FIELD MODIFICATION, FOR APPROVAL.

BID SET



4240 136th Avenue  
Holland, MI 49424  
616-888-3500

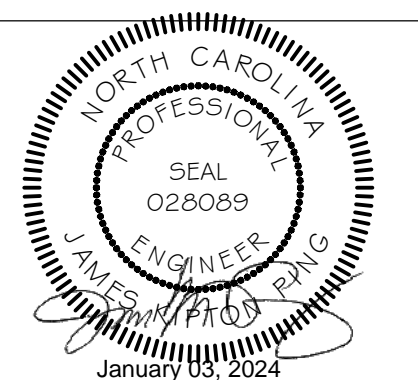
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ORDER NUMBER - POSITION	75034 - 002
SCALE	3/16" = 1'-0"
REVISION	DATE
1	02-15-23
2	01-03-24
	...
	...

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ENGINEERING SEAL (IF REQ'D)

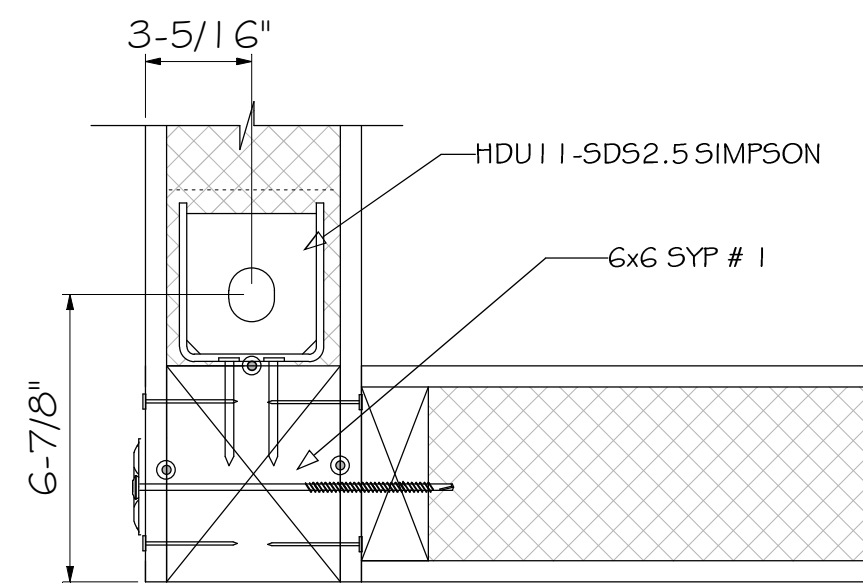


GENERAL NOTES

W-0.2

CLICK CODE TO REFERENCE WEBSITE FOR INSTALLATION GUIDE, NTA REPORT OR CONSTRUCTION DETAILS / TECHNICAL BULLETINS



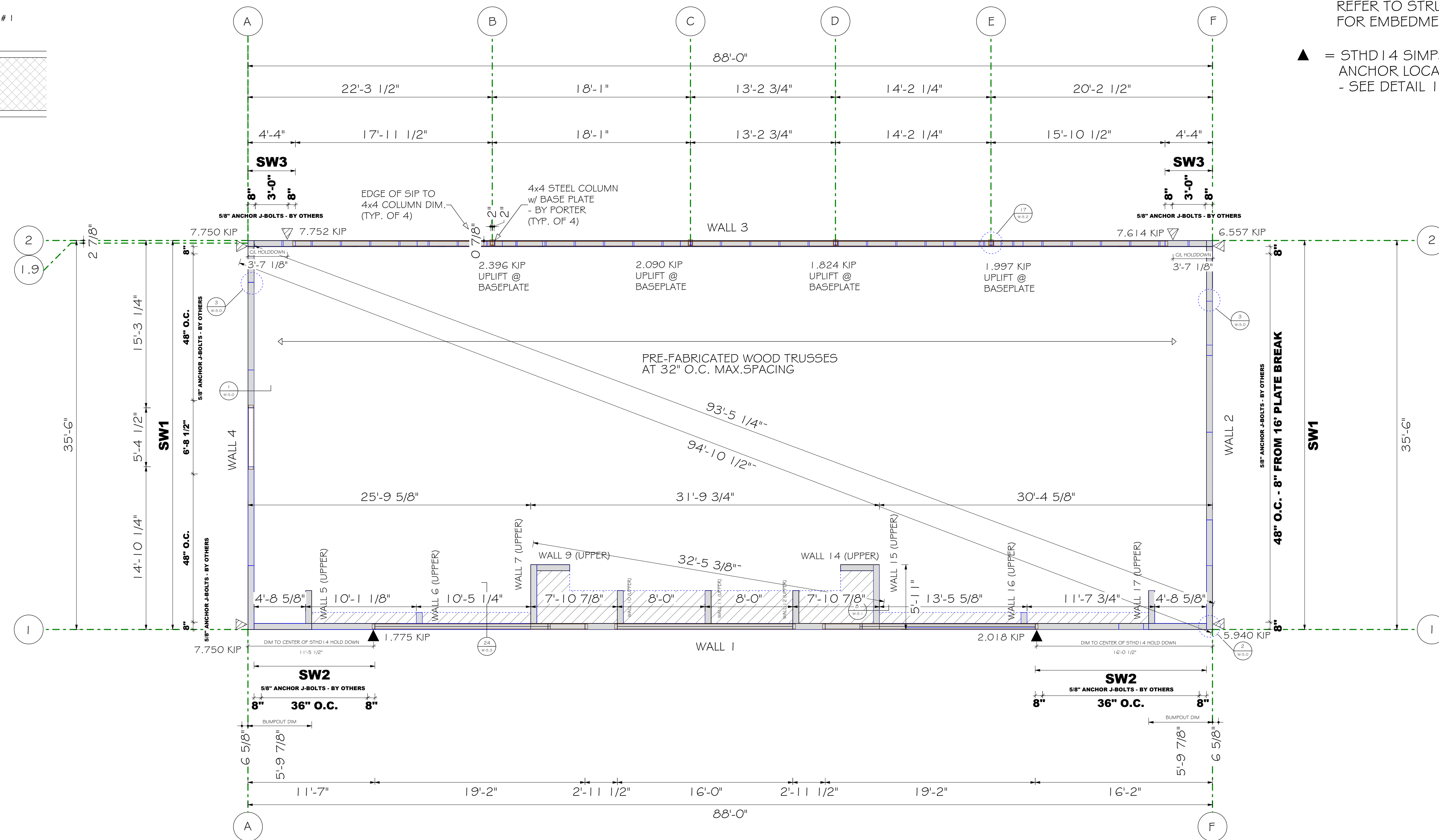


HDU 11-SD52.5 SIMPSON  
HOLDDOWN LOCATION  
- TYP. AT 4 CORNERS

△ = HDU 11-SD52.5 SIMPSON HOLD DOWN ANCHOR LOCATION - SEE DETAIL 16/W5.2 BY PORTER

NOTE: PAB8 PRECAST ANCHOR ROD SUPPLIED AND INSTALLED BY OTHERS. REFER TO STRUCTURAL DRAWINGS FOR EMBEDMENT DEPTH.

▲ = STHD 14 SIMPSON HOLDDOWN ANCHOR LOCATION (BY OTHERS) - SEE DETAIL 1/W-5.0 & 2/W-5.0



LEGEND

▨ = 2x6 FRAMING IN BETWEEN KICKERS & 7/16" O5B SHEATHING ON TOP OF KICKERS AND FRAMING. SEE DETAIL 24 / W-5.3

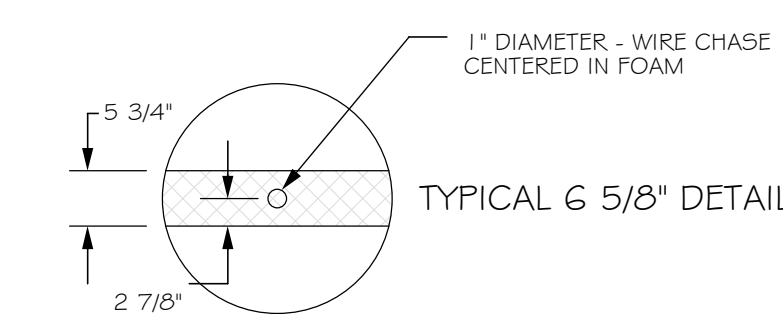
① WALL PLAN  
SCALE: 3/16" = 1'-0"

SHEAR WALL SCHEDULE - SEE DETAIL TO LEFT

PANEL DESIGNATION	SHEATHING	NAILING "X"	FLOOR SILL PLATE ATTACHMENT	HOLD DOWN
SW1	6-5/8" SIP	8D NAILS AT 4" O.C. AT EDGE AND INTERIOR	5/8" ANCHOR @ 4' O.C.	△ SIMPSON HDU 11-SD52.5 6X6 END POST
SW2	6-5/8" SIP	8D NAILS AT 4" O.C. AT EDGE AND INTERIOR	5/8" ANCHOR @ 3' O.C.	▲ SIMPSON STHD 14 - PRECAST
SW3	6-5/8" SIP	8D NAILS AT 3" O.C. AT EDGE AND INTERIOR	5/8" ANCHOR @ 3' O.C.	△ SIMPSON HDU 11-SD52.5 (3) 2X6 END POSTS

NOTES:  
1. SUBSTITUTIONS SHALL MEET THE MINIMUM LOADING REQUIREMENTS  
2. TYPICAL WALL NAILING PATTERN @ 6" O.C. 8D STAGGERED  
3. STANDARD FLOOR SILL PLATE ATTACHMENT IS 48" O.C., U.N.O.

NOTE: ALL EMBEDDED ANCHORS INSTALLED AND PROVIDED BY OTHERS.  
PLACE EMBEDDED ANCHORS WITHIN 8" OF DOOR OPENINGS.  
ASSUME 1'-0" SILL PLATE WHEN LOCATIONS ANCHORS. PROVIDE ANCHORS @ 12" FROM END OF BREAK BETWEEN 1'6" PLATES AND 8" FROM END OF WALL.

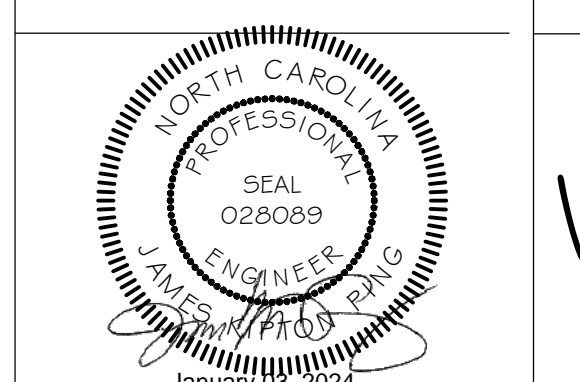


WIRE CHASE  
HORIZONTAL WIRECHASE @ 16" & 44"  
VERTICLE WIRECHASE @ APPROX. 48" O.C.

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DAG	DATE	01/23/2023
ORDER NUMBER - POSITION	75034 - 003	
SCALE	3/16" = 1'-0"	
REVISION	DATE	
①	02-15-23	
②	01-03-24	
③	...	
④	...	

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WALL PLAN

W-1.0

DAG	
DATE	01/23/2023
ORDER NUMBER - POSITION	75034 - 004
SCALE	1/4" = 1'-0"
REVISION	DATE
1	02-15-23
2	01-03-24
3	...
4	...

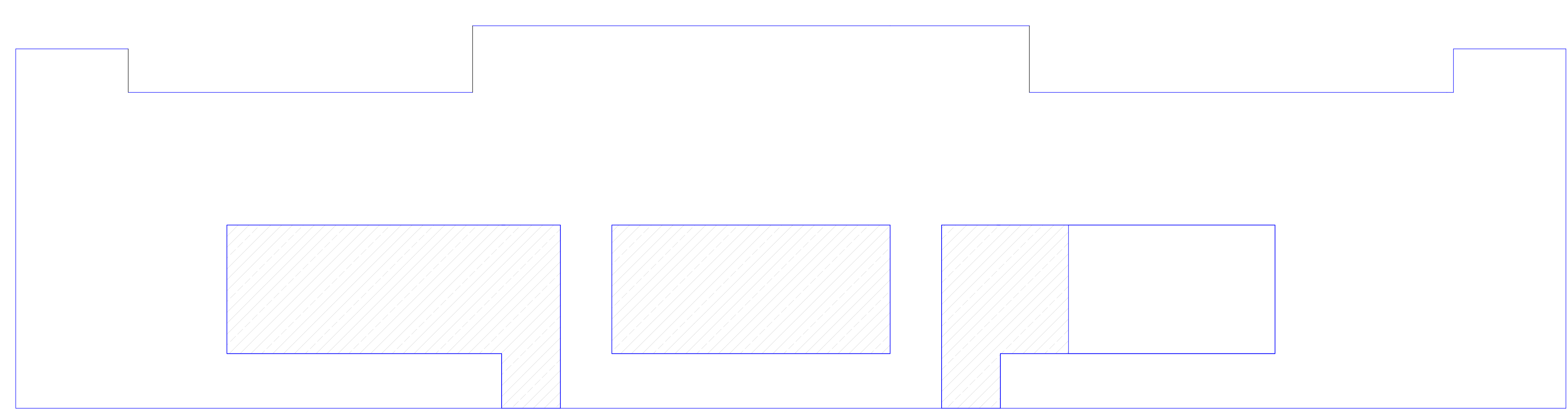
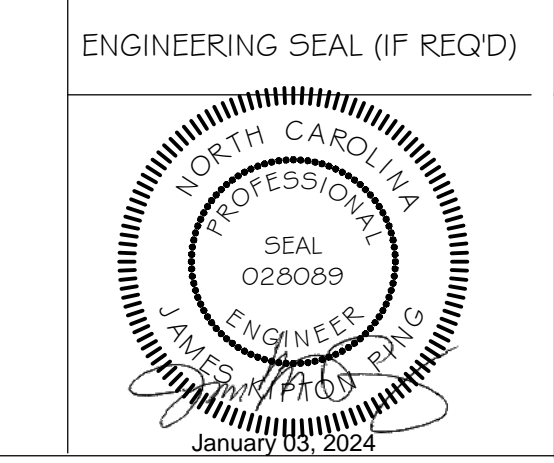
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Main Building

ELEVATIONS

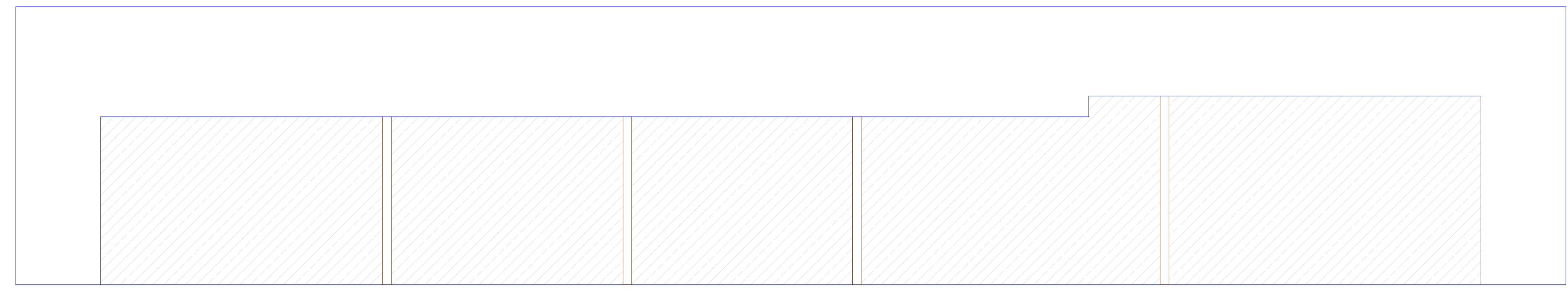
W-2.0

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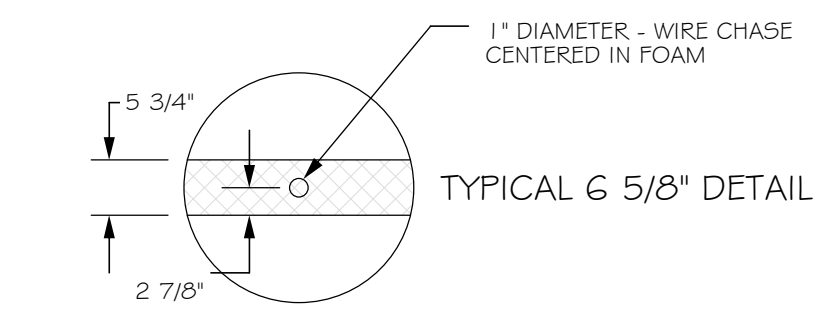
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1 FRONT EAST ELEVATION



2 REAR WEST ELEVATION



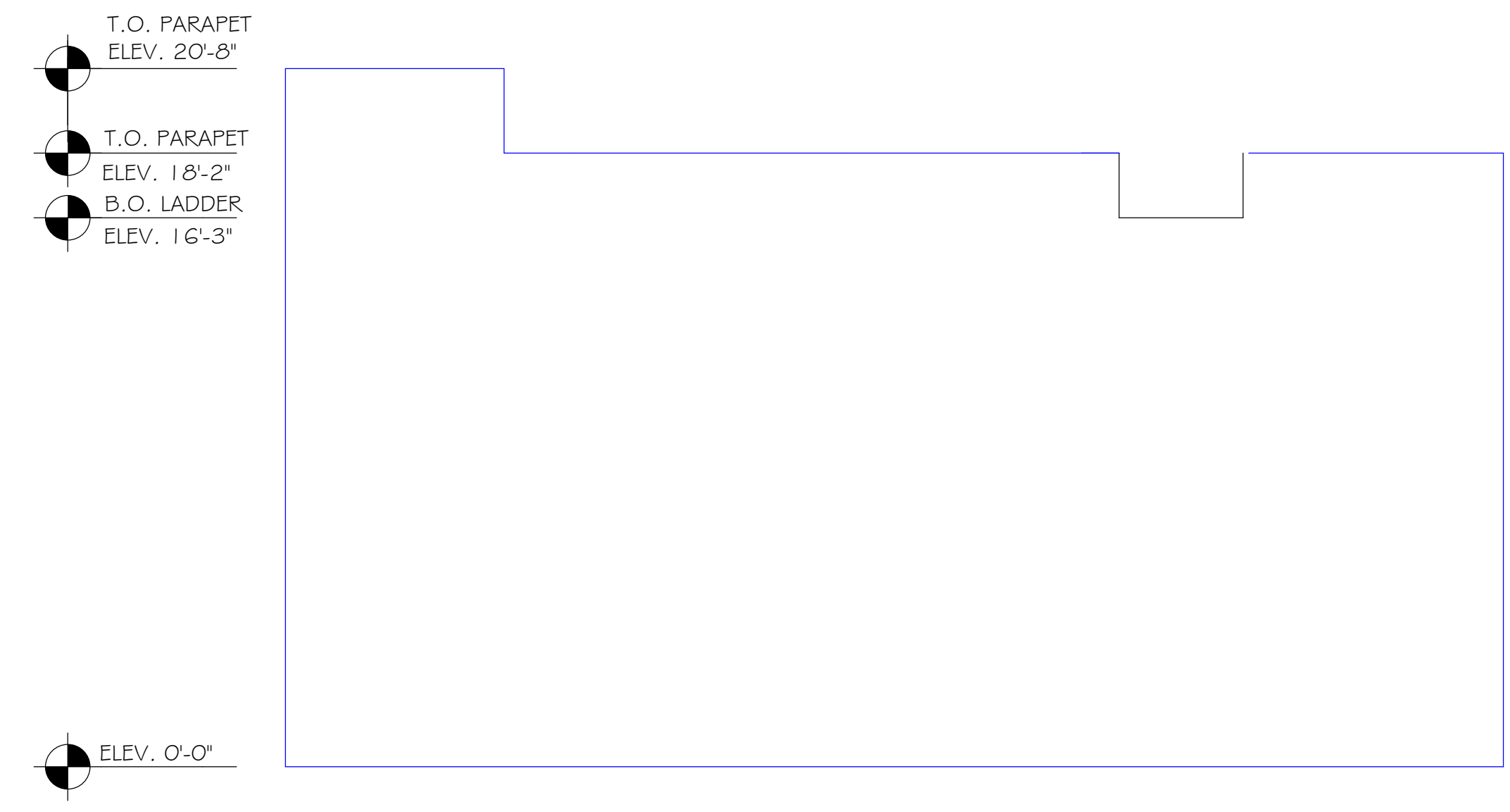
WIRE CHASE  
HORIZONTAL WIRECHASE @ 16" # 44"  
VERTICLE WIRECHASE @APPROX. 48" O.C.

- T.O. TOWER  
ELEV. 22'-0"
- T.O. PARAPET  
ELEV. 20'-8"
- T.O. PARAPET  
ELEV. 18'-2"
- B.O. TRUSS  
ELEV. 12'-2"
- T.O. WINDOW  
ELEV. 10'-6 1/2"
- T.O. SILL  
ELEV. 3'-1 3/4"
- ELEV. 0'-0"

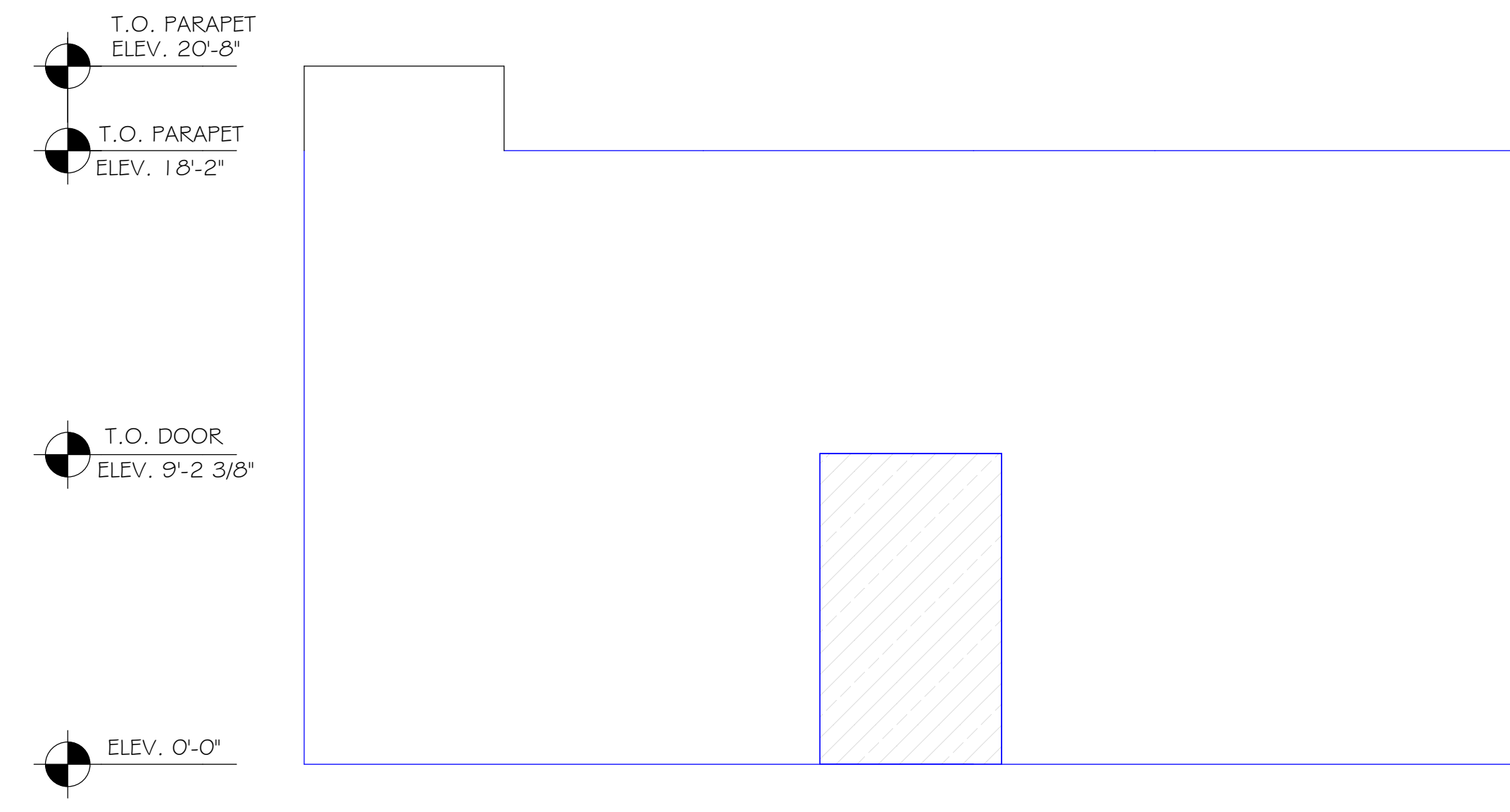
- T.O. SIP ROOF  
ELEV. 16'-0"
- T.O. OPENING  
ELEV. 10'-10 1/4"
- T.O. OPENING  
ELEV. 9'-8"
- ELEV. 0'-0"

BID SET

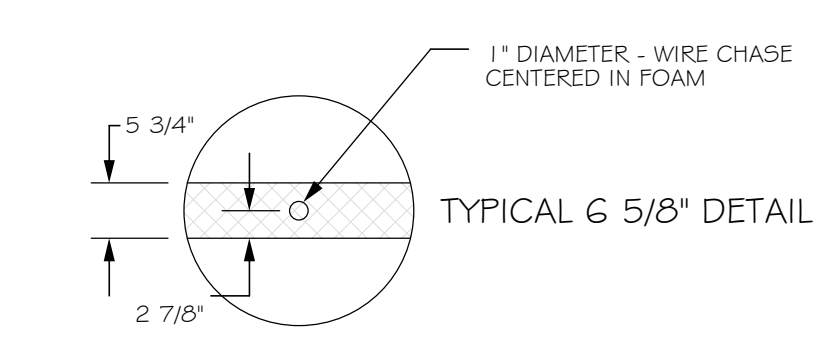
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ORDER NUMBER - POSITION	75034 - 005
SCALE	1/4" = 1'-0"
REVISION	DATE
1	02-15-23
2	01-03-24
△	...
△	...



3 NORTH SIDE ELEVATION



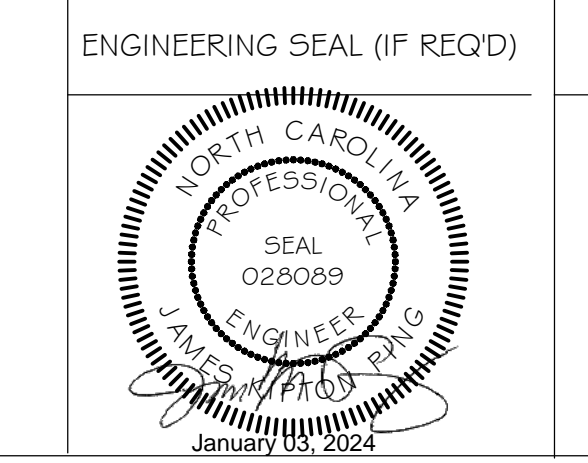
4 SOUTH SIDE ELEVATION



WIRE CHASE  
HORIZONTAL WIRECHASE @ 16" # 44"  
VERTICLE WIRECHASE @ APPROX. 48" O.C.

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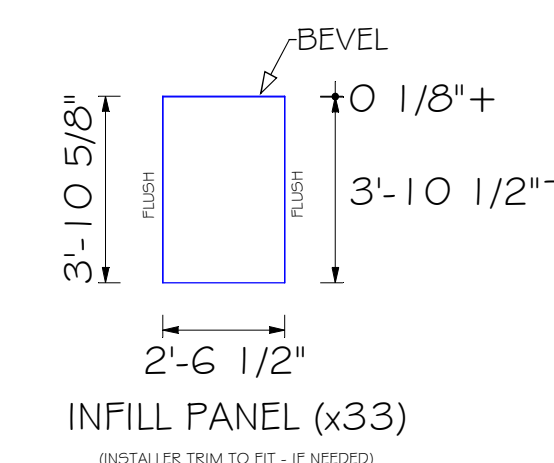
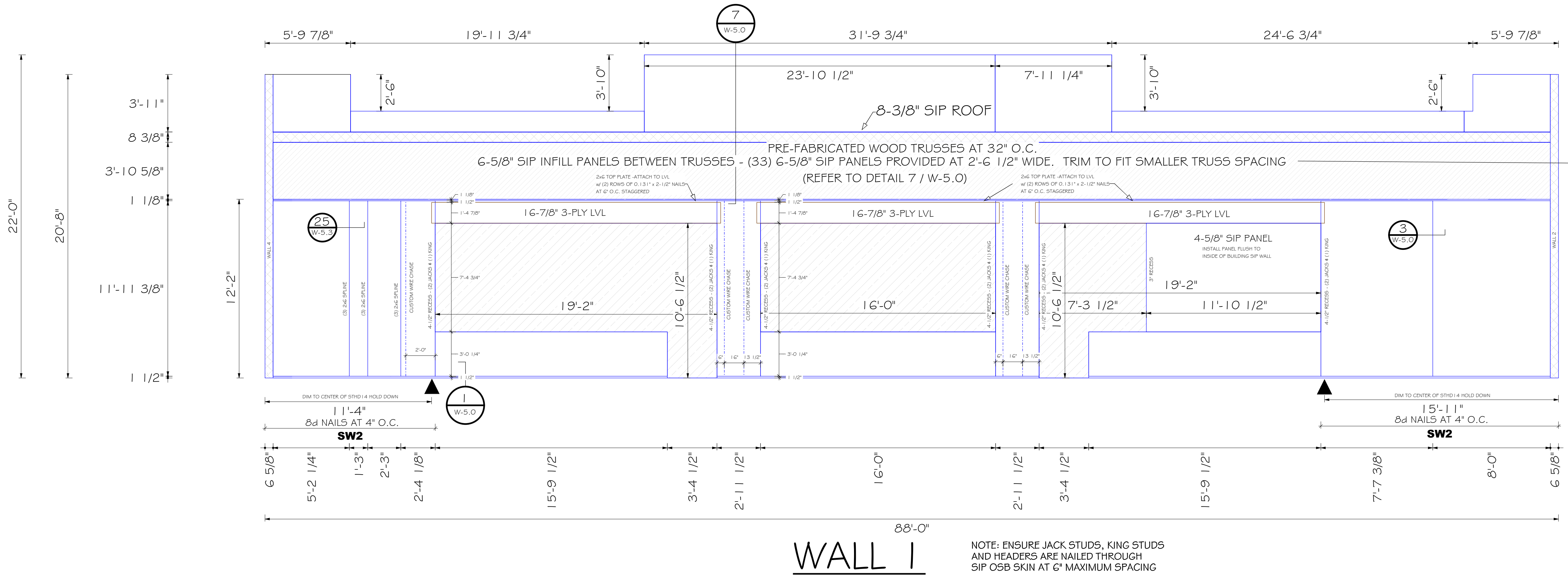


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Main Building

ELEVATIONS

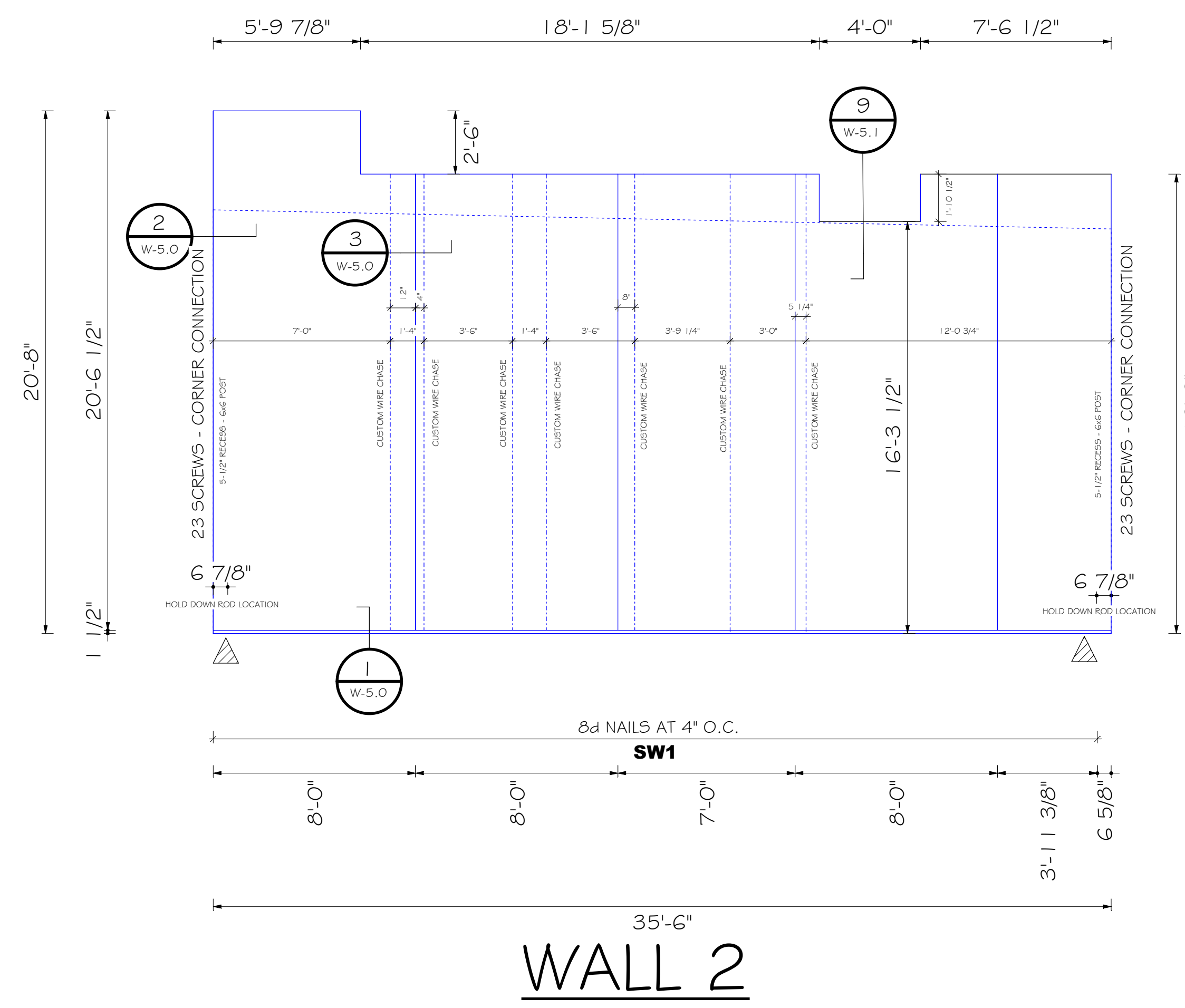
W-2.1

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01/23/2023	
ORDER NUMBER - POSITION	
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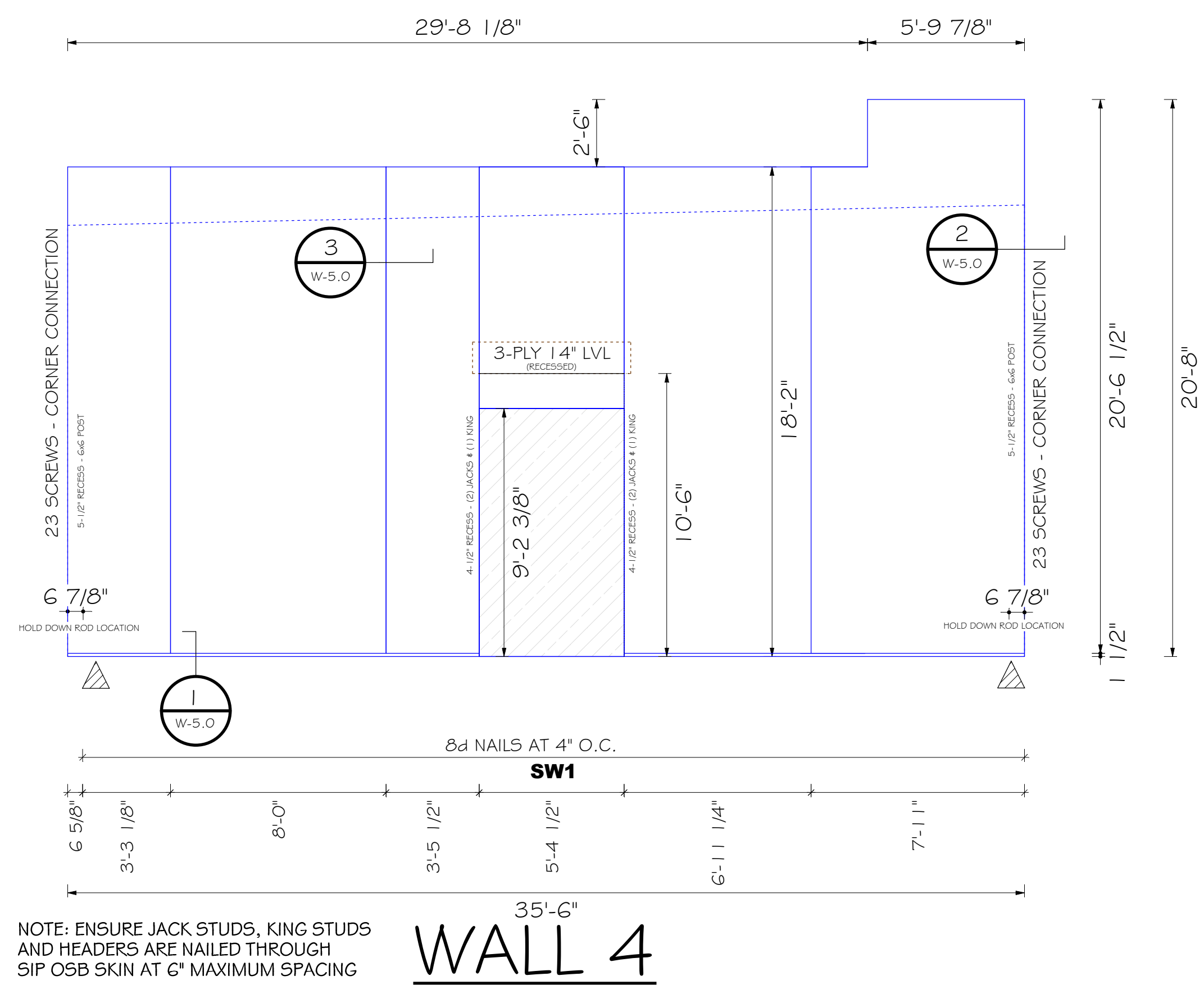


**WALL 1**

NOTE: ENSURE JACK STUDS, KING STUDS AND HEADERS ARE NAILED THROUGH SIP OSB SKIN AT 6" MAXIMUM SPACING

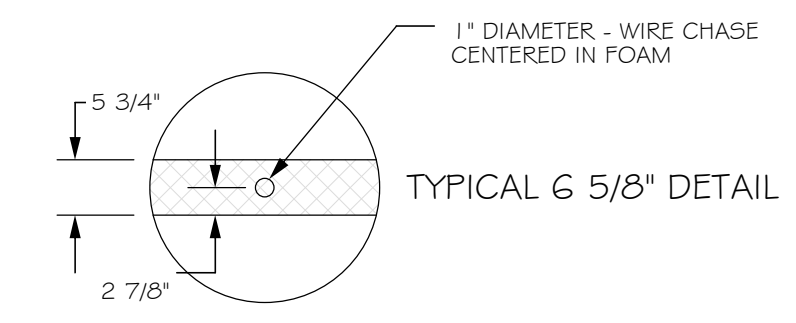


**WALL 2**



**WALL 4**

NOTE: ENSURE JACK STUDS, KING STUDS AND HEADERS ARE NAILED THROUGH SIP OSB SKIN AT 6" MAXIMUM SPACING



WIRE CHASE HORIZONTAL WIRECHASE @ 16" # 44" VERTICLE WIRECHASE @ APPROX. 48" O.C.

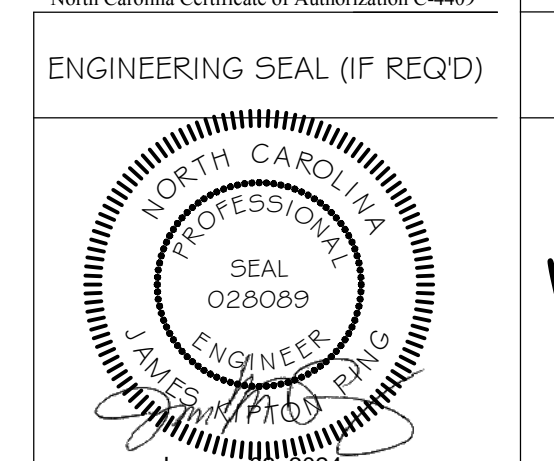
▲ = HDU 11-SDS2.5 SIMPSON HOLD DOWN ANCHOR LOCATION - SEE DETAIL 1 G BY PORTER

NOTE: PAB8 PRECAST ANCHOR ROD SUPPLIED AND INSTALLED BY OTHERS

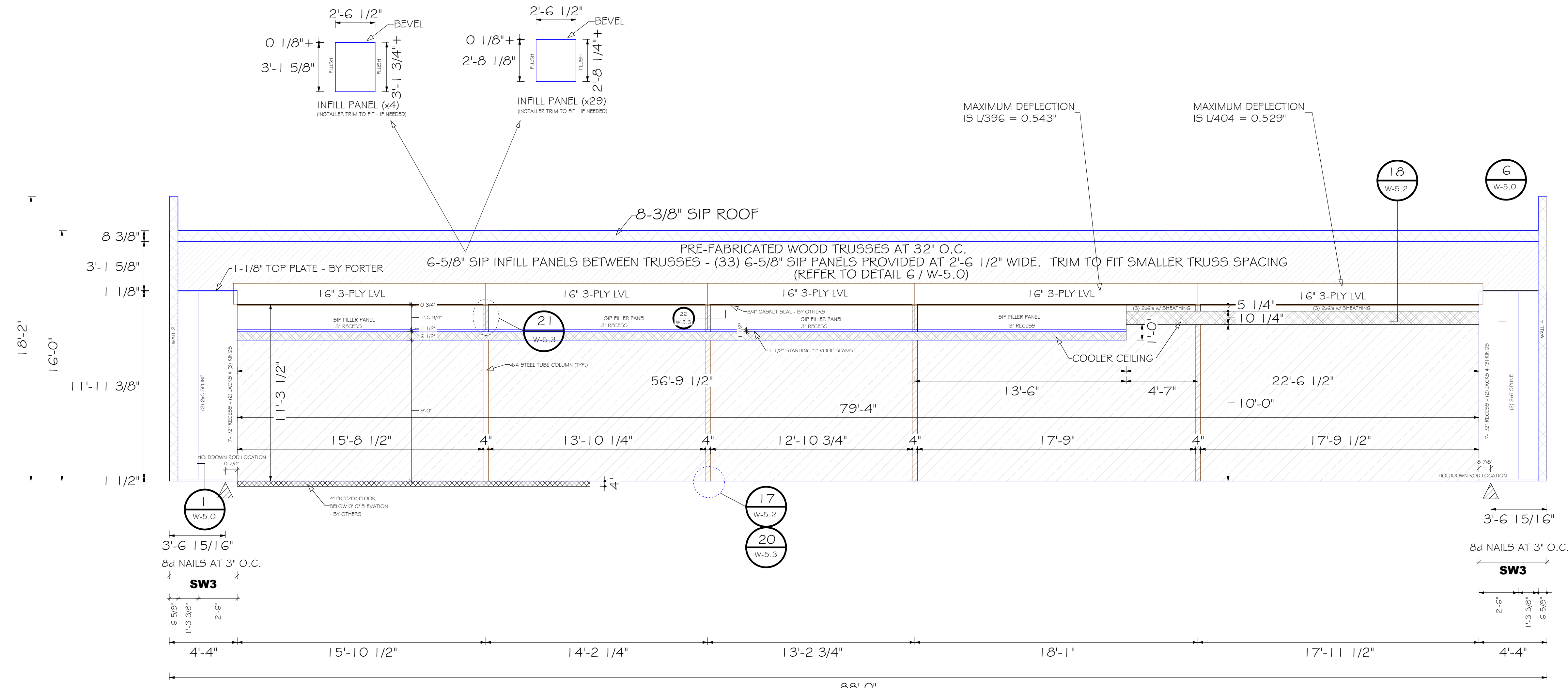
▲ = STHD 14 SIMPSON HOLD DOWN ANCHOR LOCATION - SEE DETAIL 1 #2 BY OTHERS

NOTE: ALL RECESSES IN PANELS ARE 1-1/2" U.N.O.

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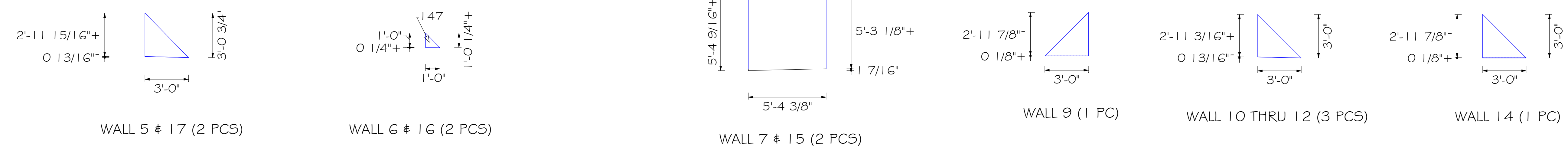


REVISION	DATE
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2	01-03-24
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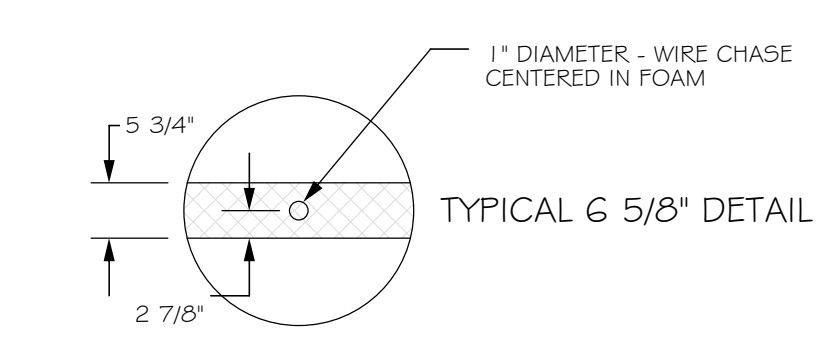
**WALL 3**

NOTE: ENSURE JACK STUDS, KING STUDS AND HEADERS ARE NAILED THROUGH SIP OSB SKIN AT 6" MAXIMUM SPACING



▲ = HDU 11-SDS2.5 SIMPSON HOLD DOWN ANCHOR LOCATION - SEE DETAIL 16 BY PORTER

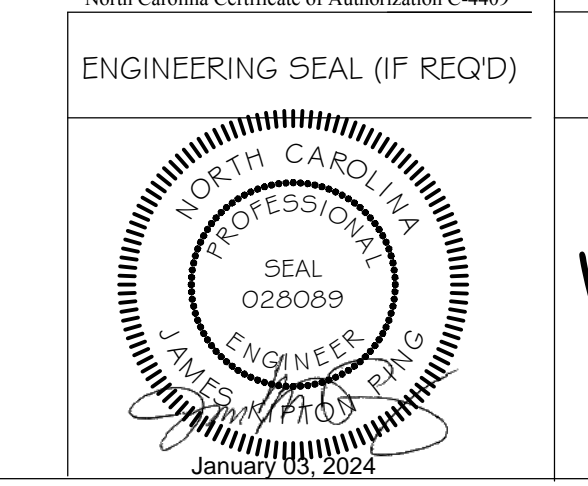
NOTE: PAB8 PRECAST ANCHOR ROD SUPPLIED AND INSTALLED BY OTHERS



WIRE CHASE HORIZONTAL WIRECHASE @ 16" # 44" VERTICLE WIRECHASE @ APPROX. 48" O.C.

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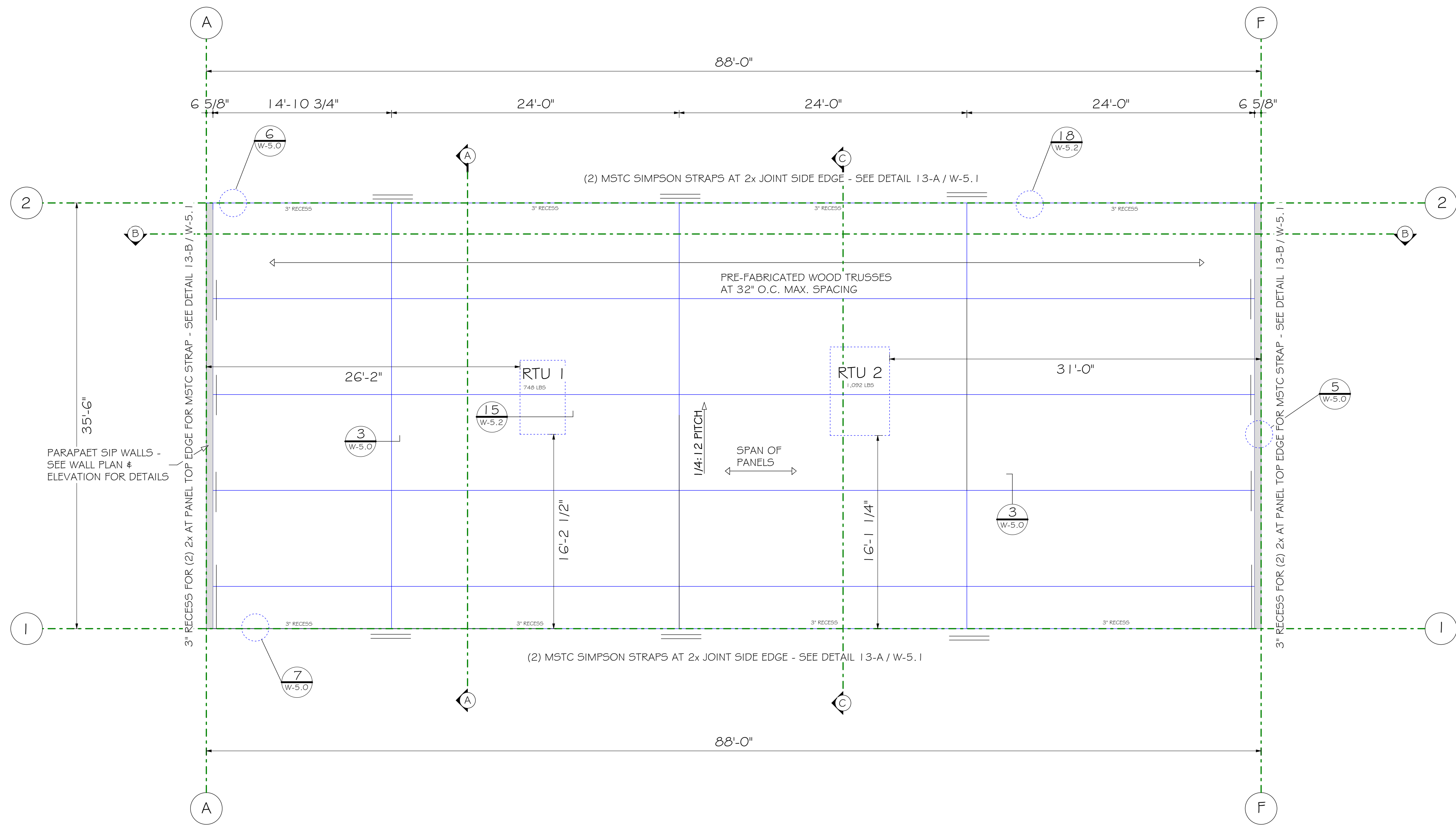
Circle K Angier NC 22130  
Main Building

ELEVATIONS

W-2.3



**\*\*SAFETY WARNING NOTE: INSTALL FALL PROTECTION OVER ALL OPENINGS IN ROOF!**



1 ROOF PLAN (8-3/8" SIP U.N.O.)  
SCALE: 3/16" = 1'-0"

NOTE: FOR NON-CONTINUOUS SUB-FASCIA LUMBER BETWEEN PANEL JOINTS, ATTACH (2)-2X8 SUBFASCIA LUMBER WITH A MINIMUM 4'-0" STAGGERED JOINTS ATTACHED W/ (3) ROWS OF 3"x 0.131" NAILS @ 4" O.C. FOR 4'-0" IN EACH DIRECTION FROM JOINT.



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ENGINEERING SEAL (IF REQ'D)



DAG	DATE
	01/23/2023
ORDER NUMBER - POSITION	75034 - 009
SCALE	3/16" = 1'-0"
REVISION	DATE
1	02-15-23
2	01-03-24
3	...
4	...

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ROOF PLAN

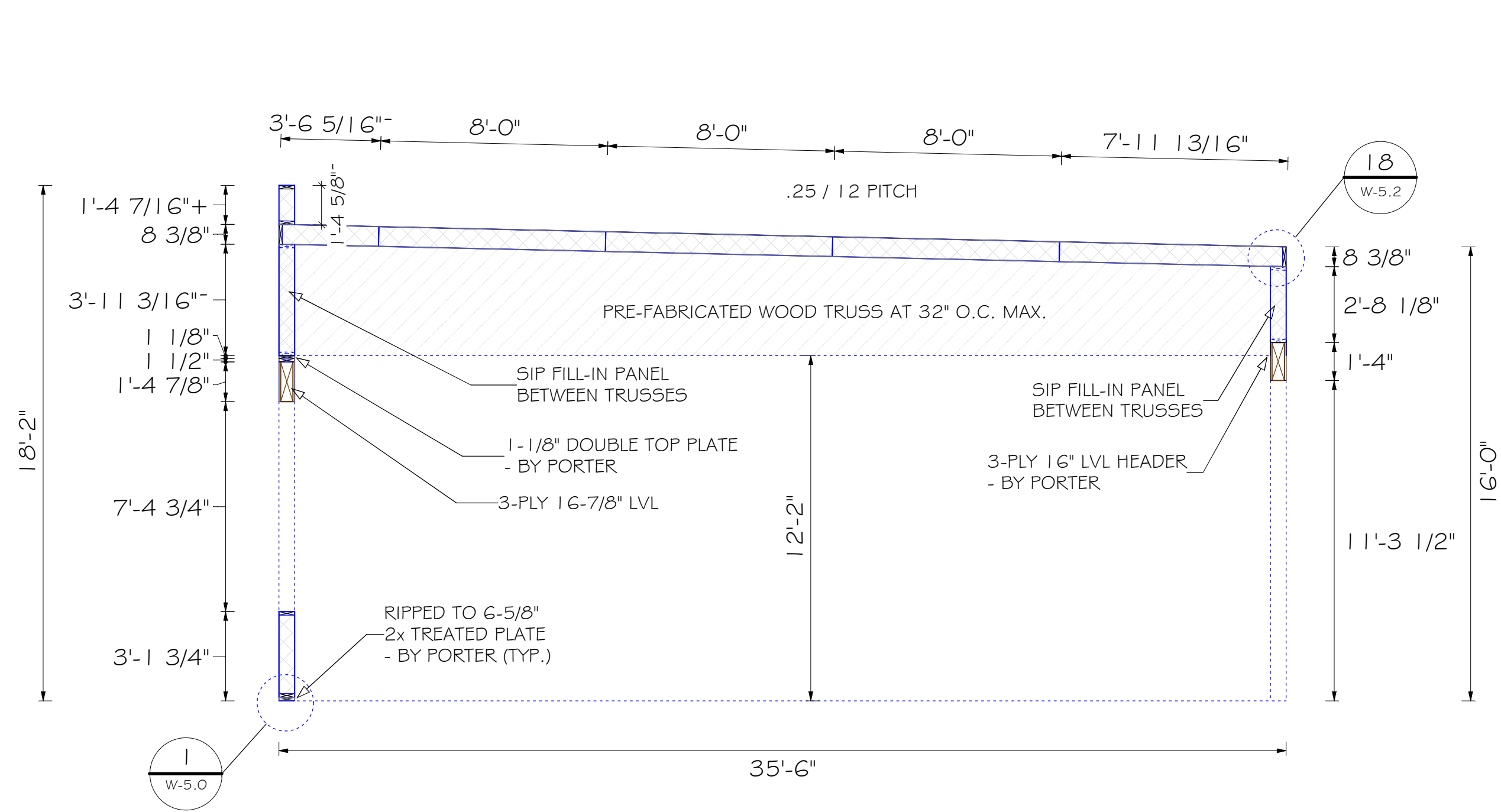
W-3.1

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DATE	01/23/2023
ORDER NUMBER - POSITION	75034 - 010
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2	01-03-24
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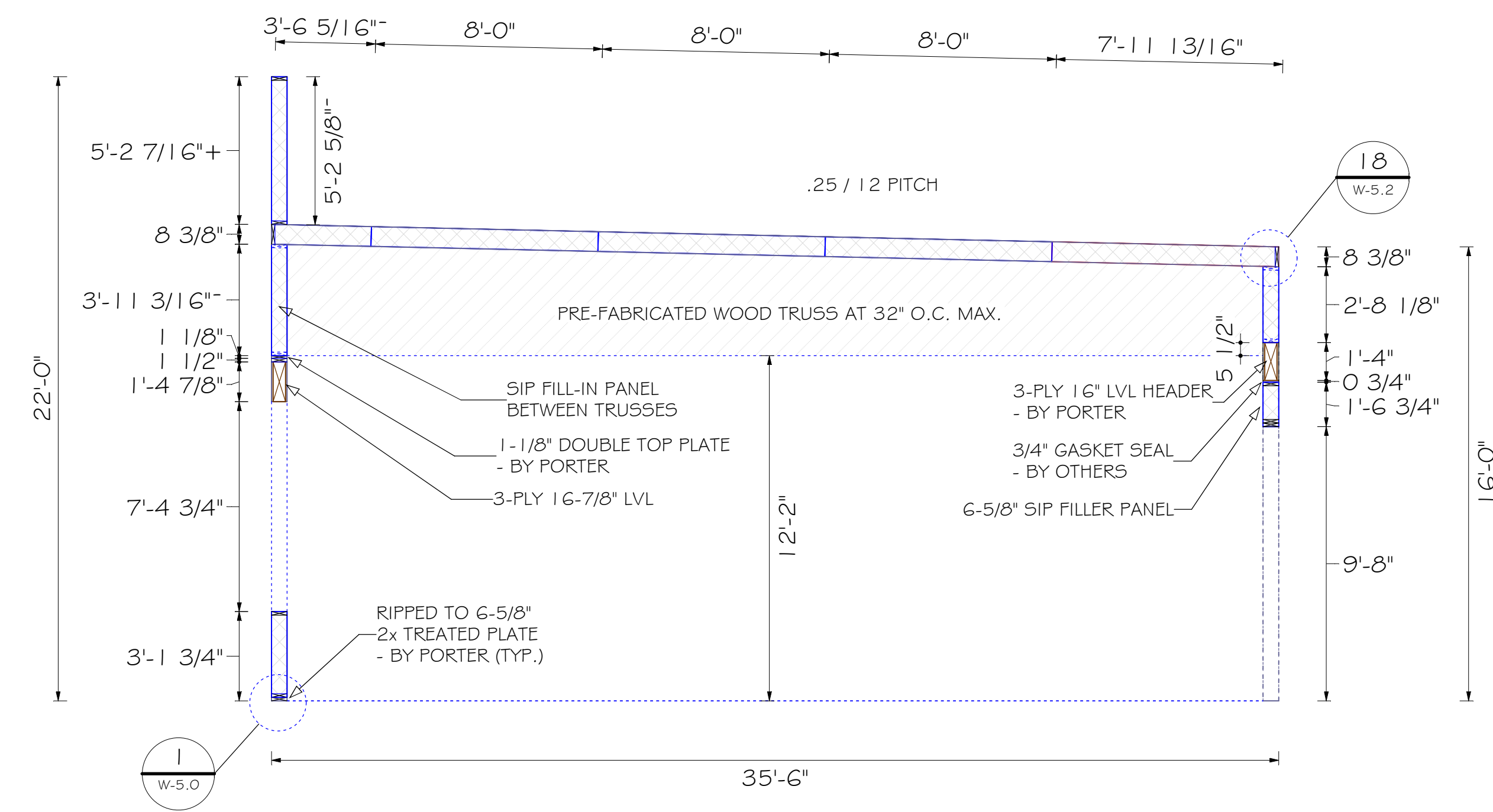
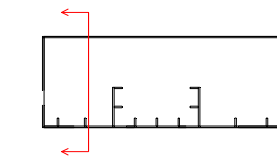
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SECTIONS

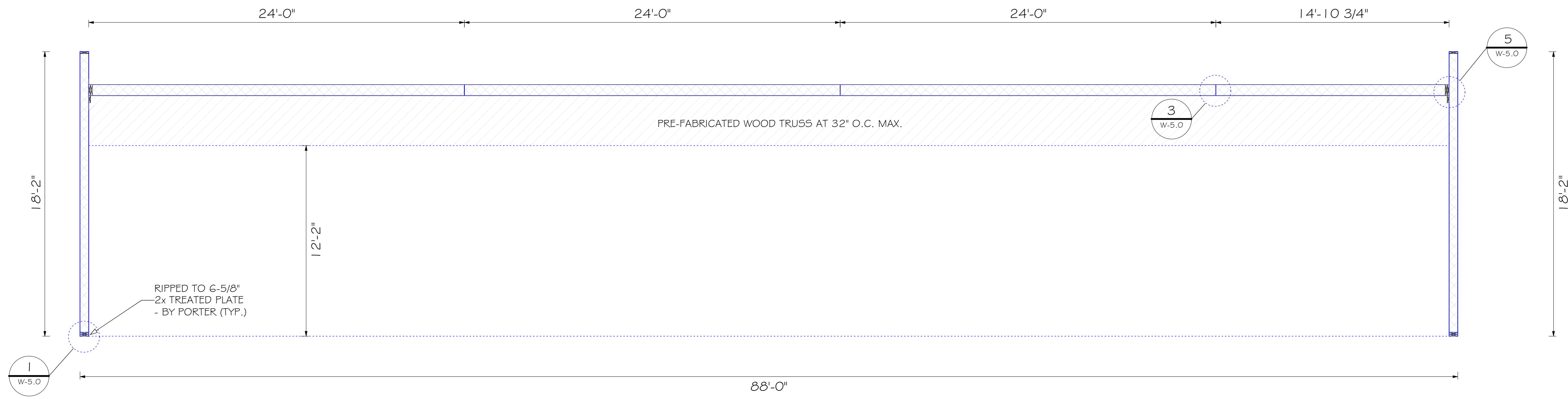
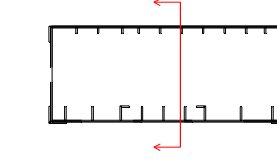
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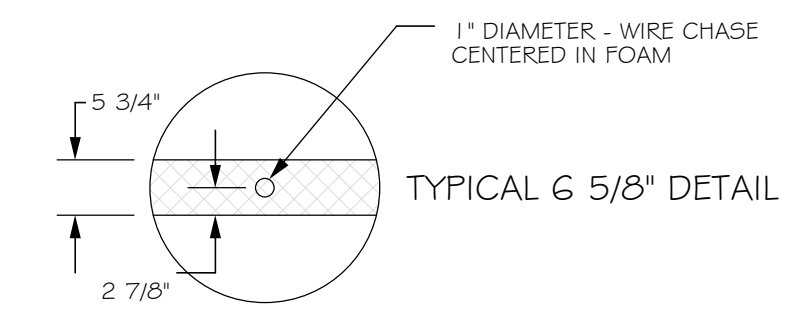
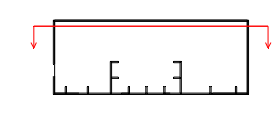
SECTION A-A



SECTION C-C



SECTION B-B



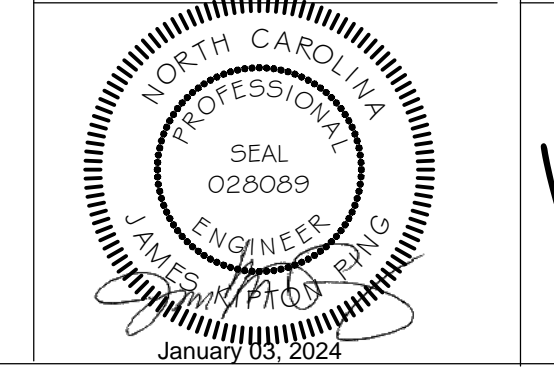
WIRE CHASE  
HORIZONTAL WIRECHASE @ 16" # 44"  
VERTICLE WIRECHASE @ APPROX. 48" O.C.

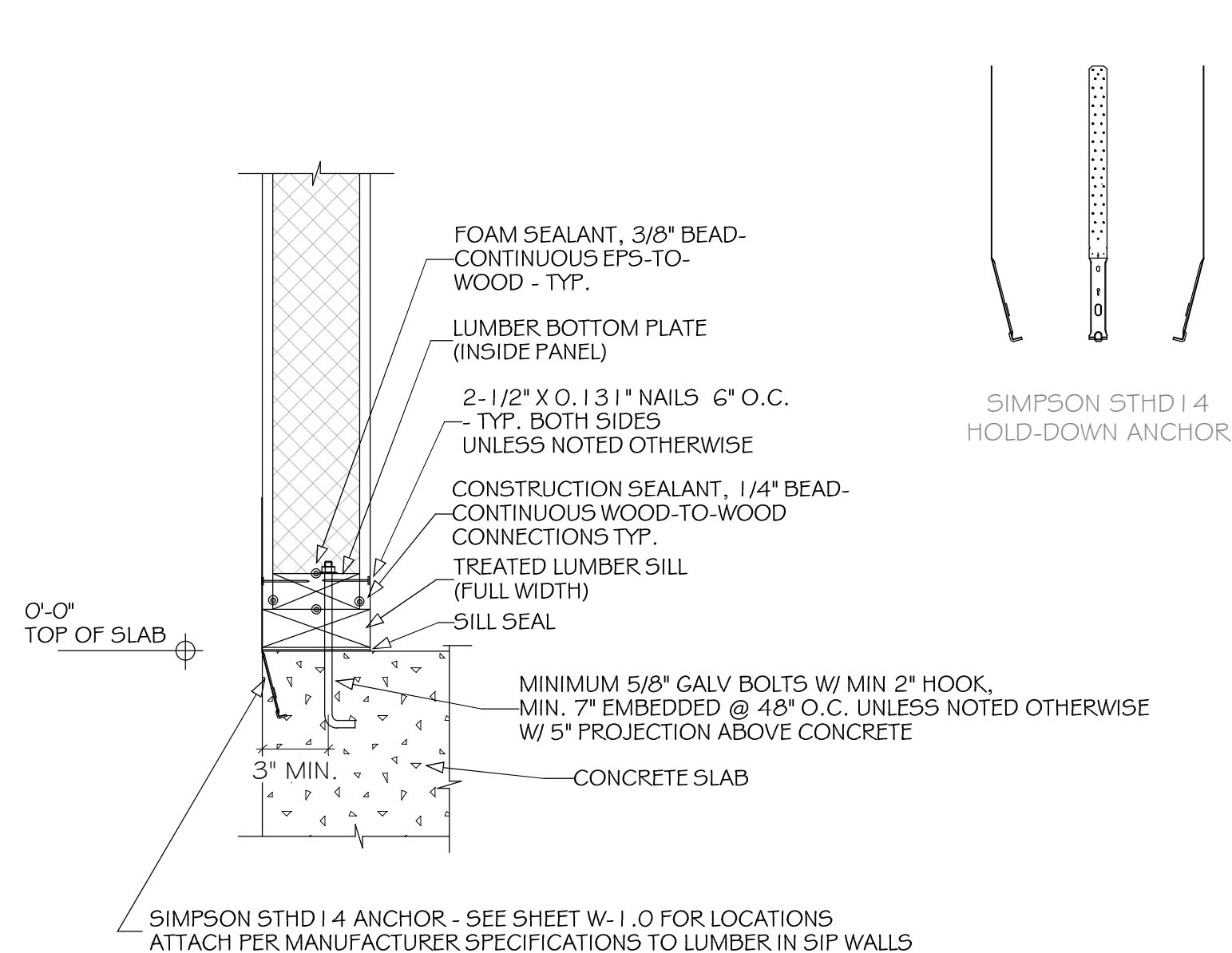
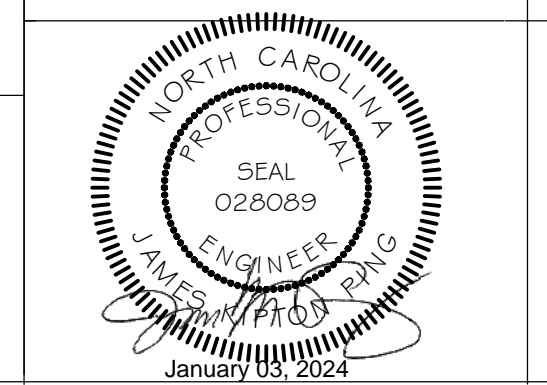
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Suite 235  
Cincinnati, Ohio 45242  
(513) 984-1663  
Fax: (513) 984-1688  
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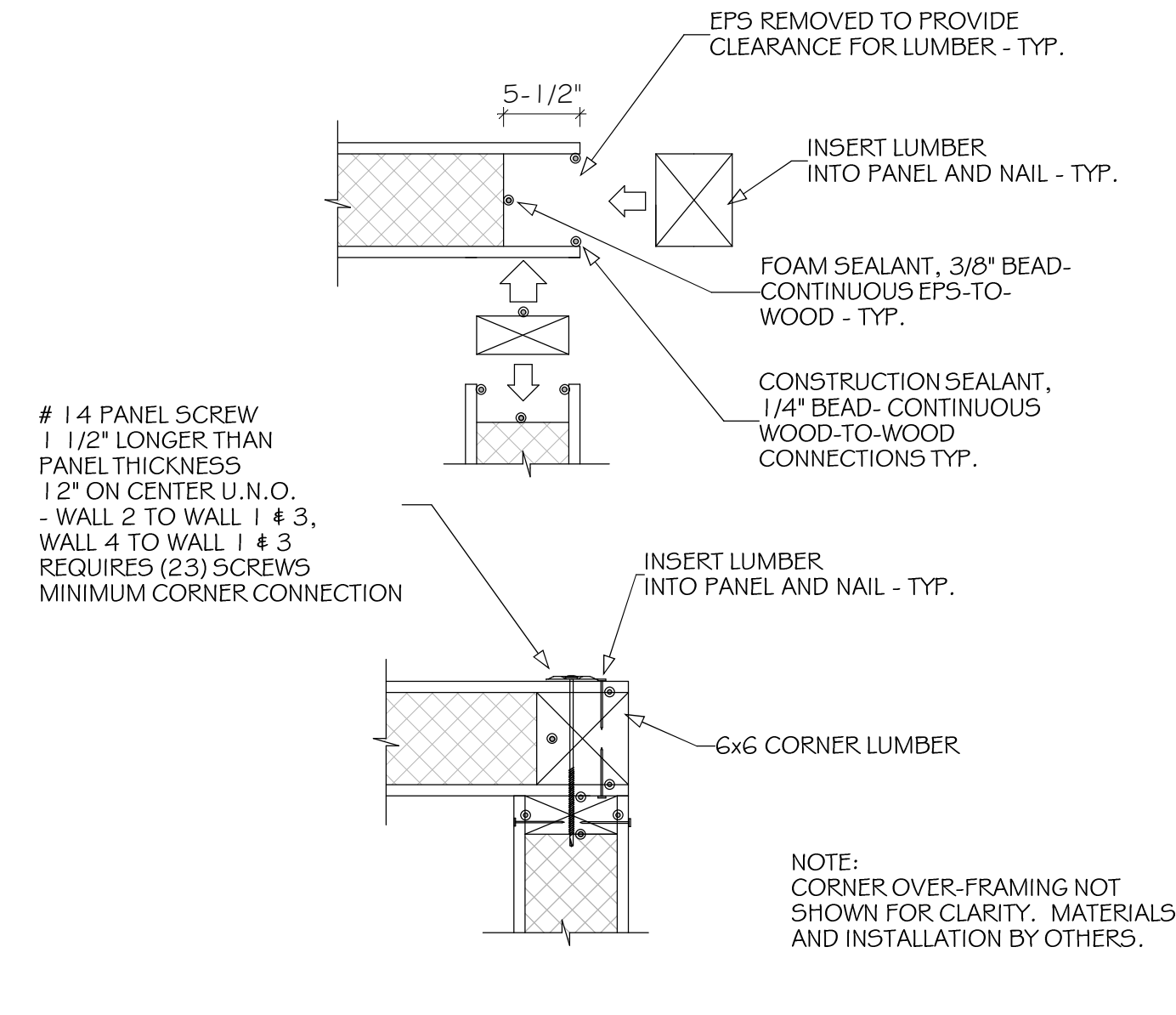
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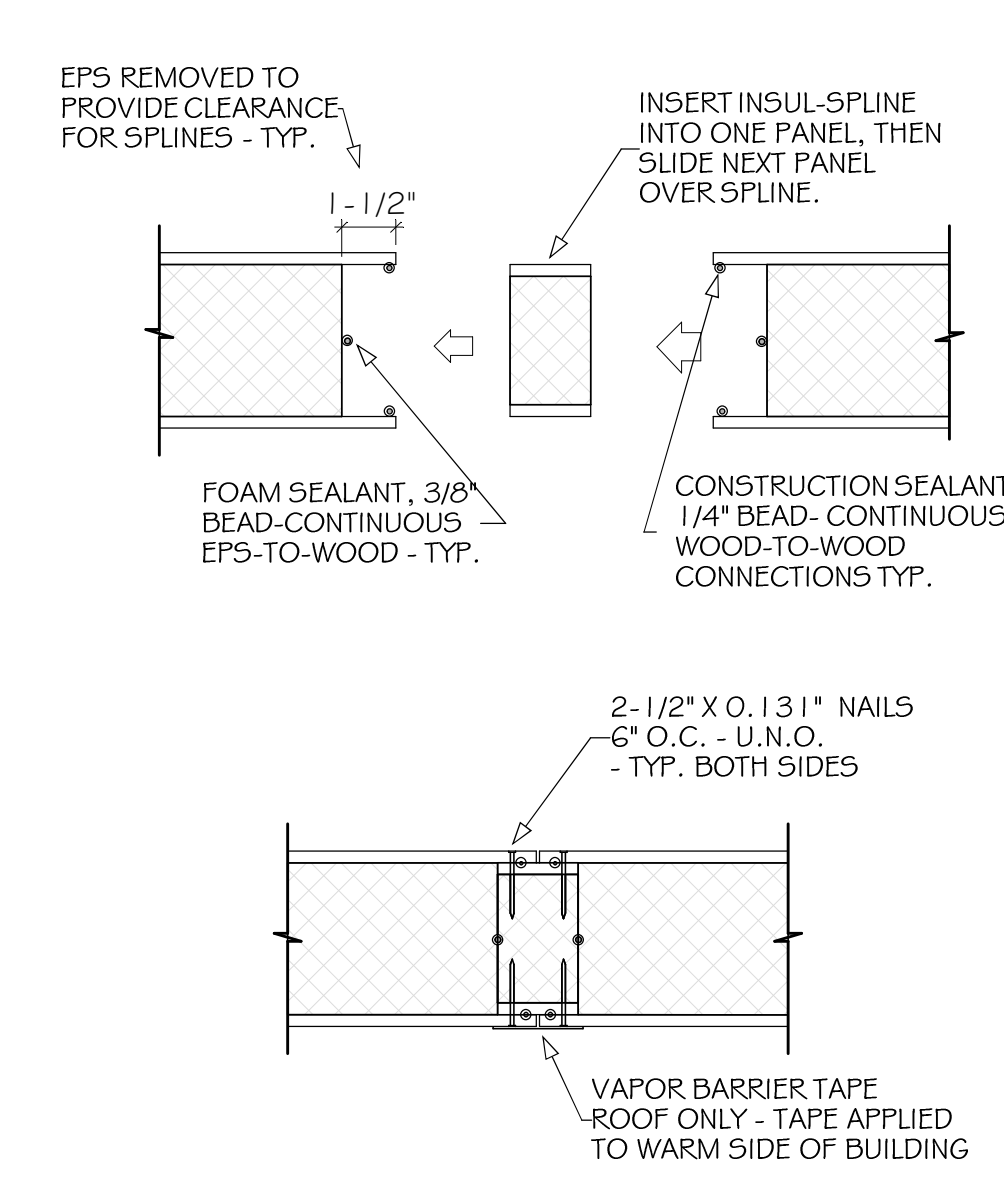




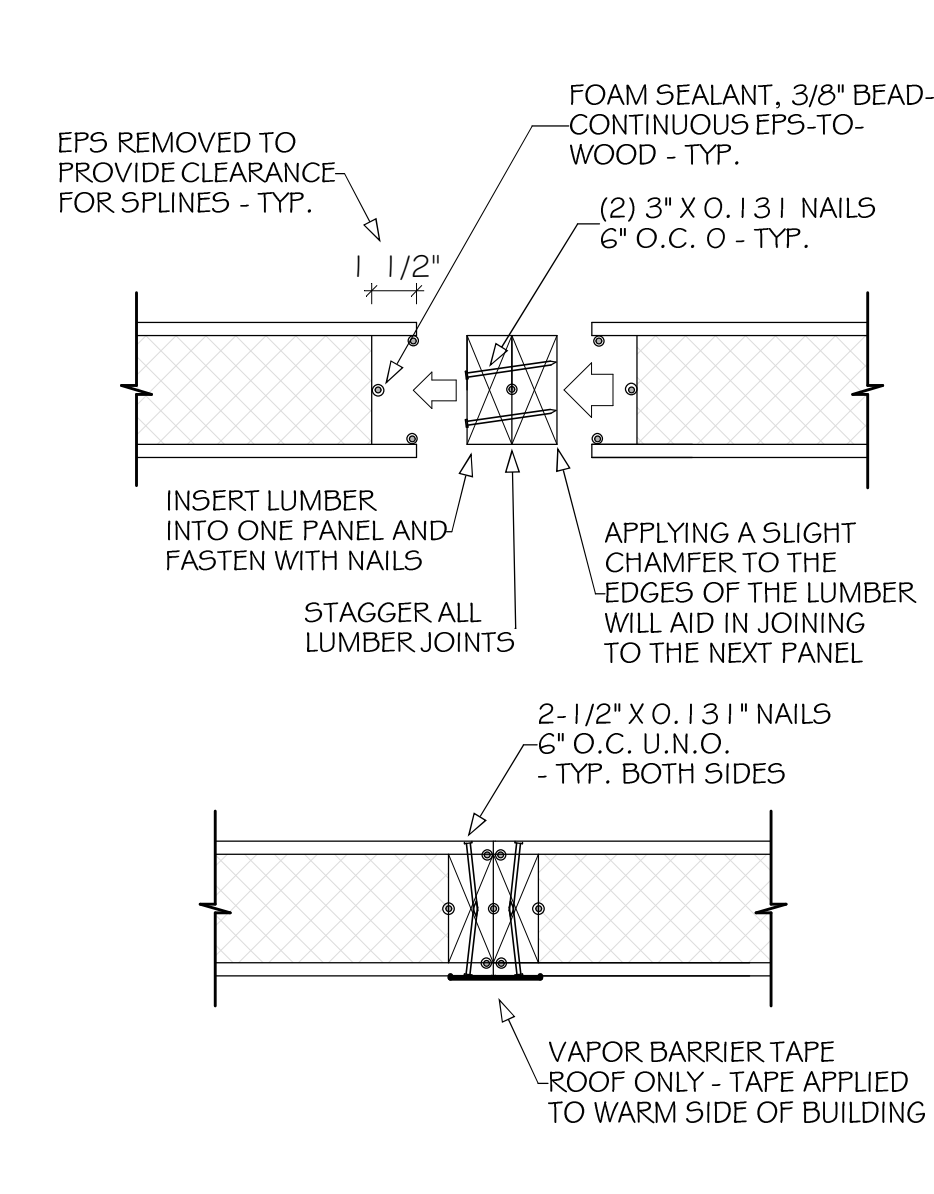
1 PANEL ON SLAB  
MAIN BUILDING DETAIL



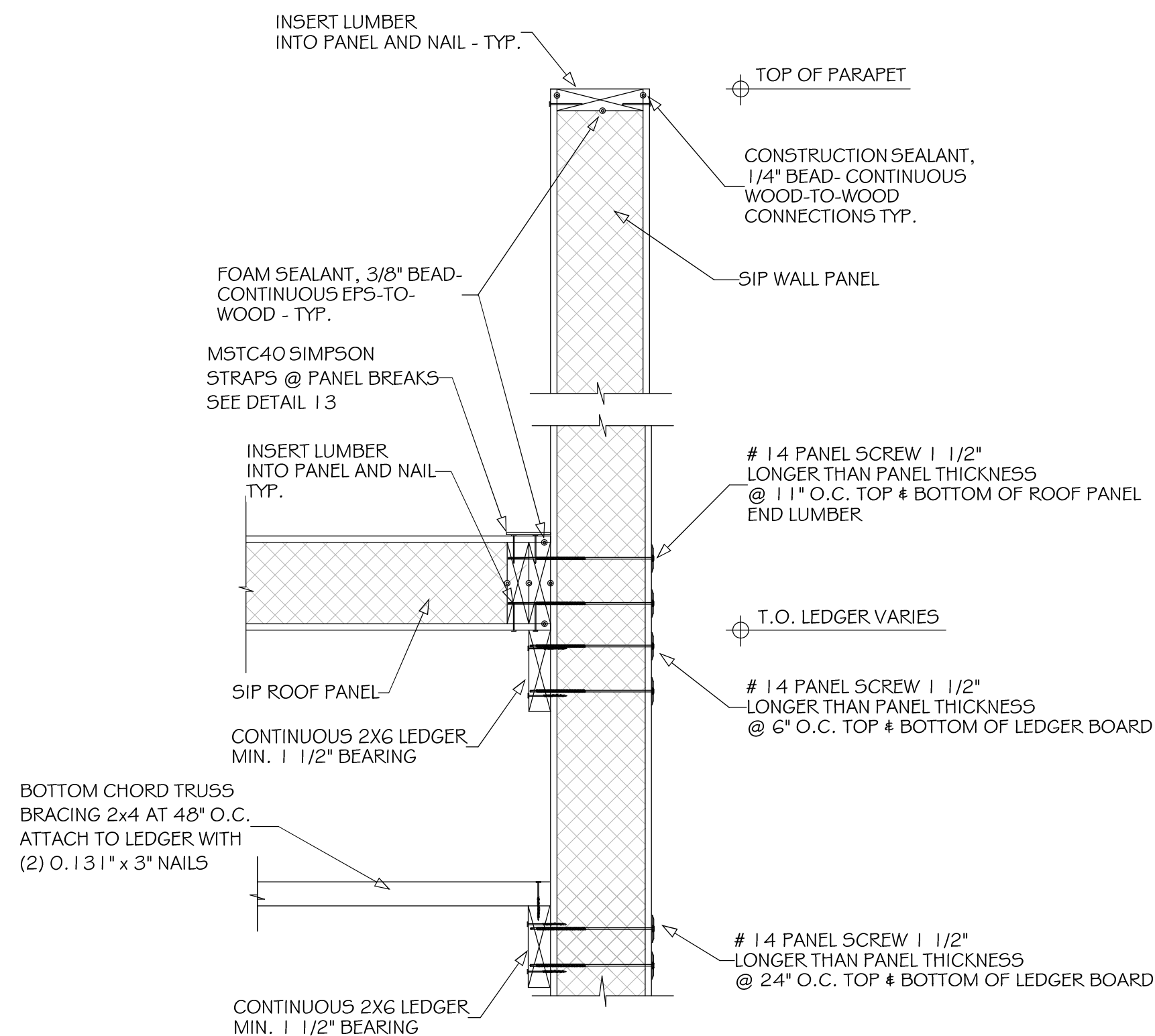
2 CORNER CONNECTION  
MAIN BUILDING DETAIL



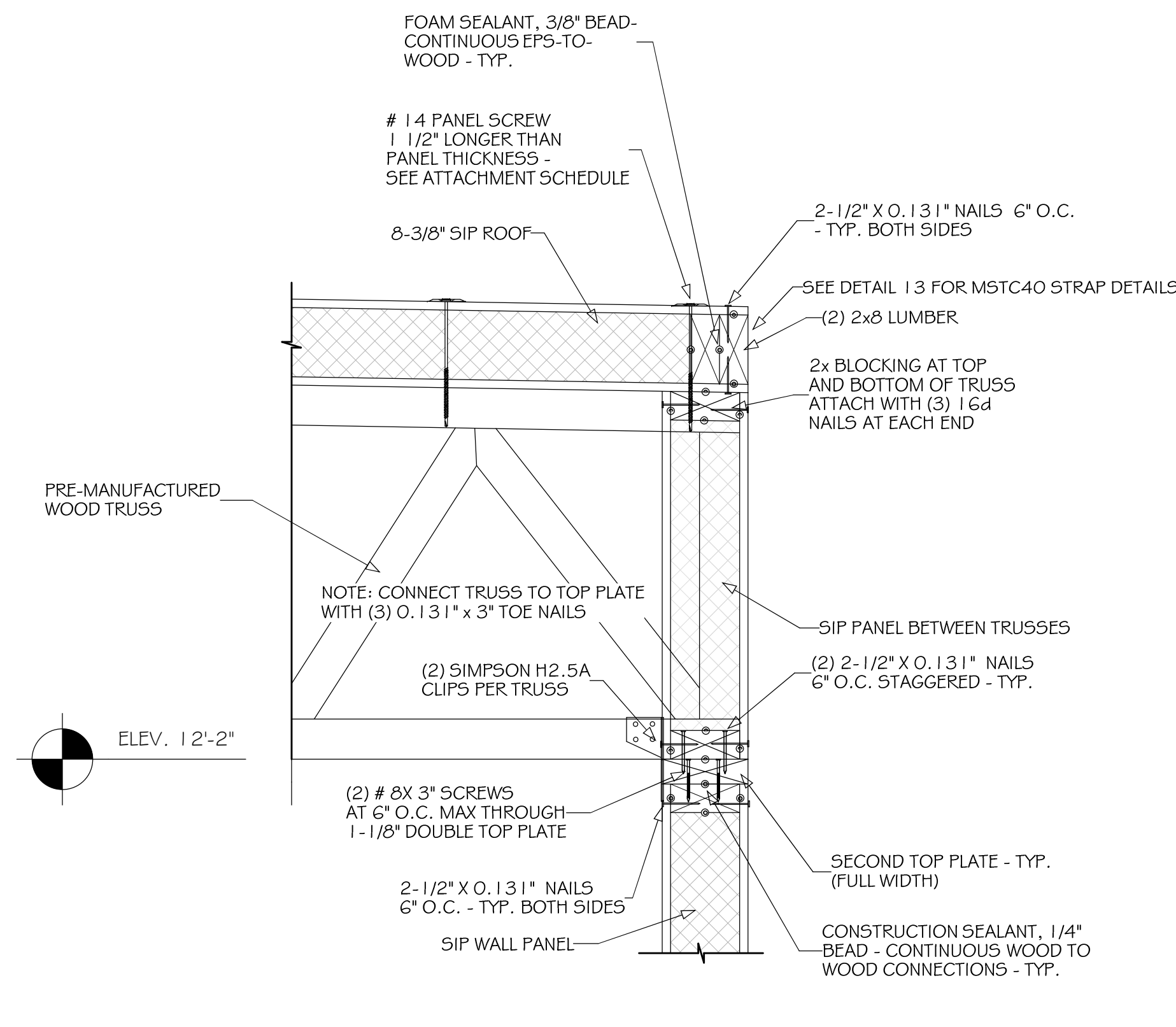
3 PANEL-TO-PANEL CONNECTION WITH INSUL-SPLINE  
BOTH BUILDING DETAIL



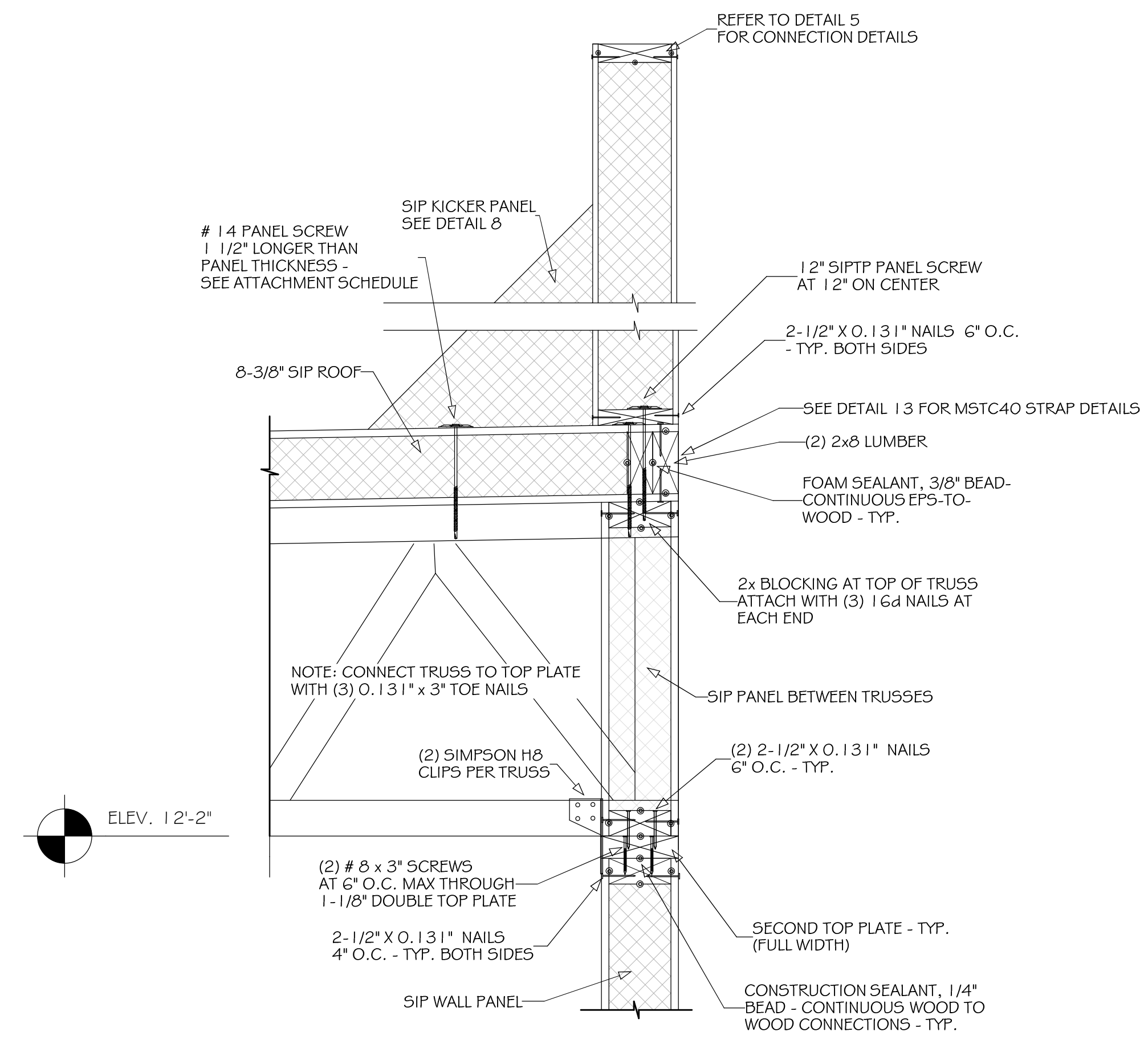
4 PANEL-TO-PANEL CONNECTION WITH DOUBLE LUMBER  
BOTH BUILDING DETAIL



5 ROOF TO WALL CONNECTION @ SIDE WALL LEDGER  
MAIN BUILDING DETAIL



6 REAR WALL SIP CONNECTION  
MAIN BUILDING DETAIL



7 FRONT WALL SIP CONNECTION  
MAIN BUILDING DETAIL

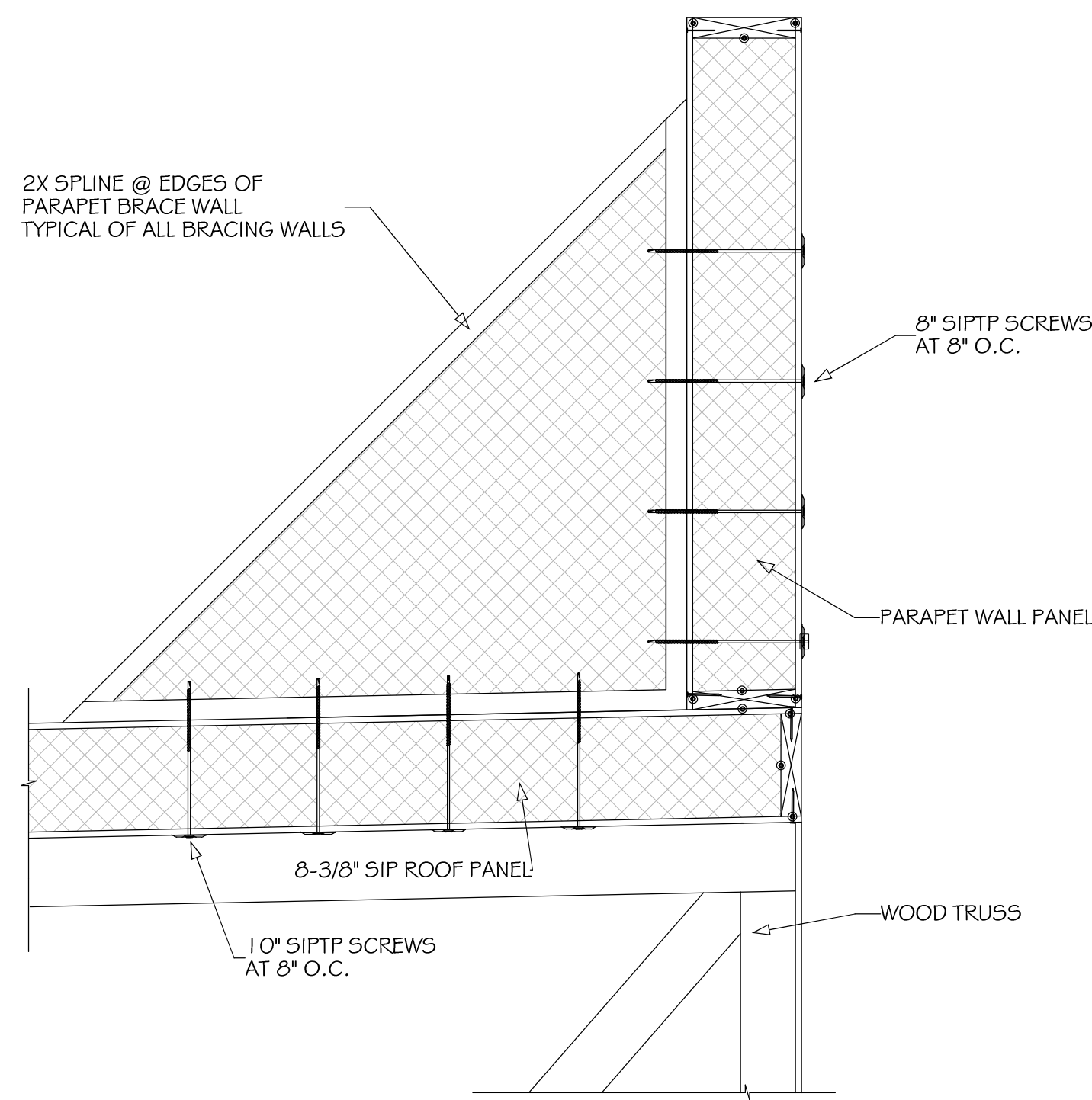
FASTENER SCHEDULE - ENGINEERING DATA		
TYPE	SPACING	LOCATION
SIPTP 10" SCREW	SEE W-5.2	TO WALLS & ROOF TRUSSES (OR SEE ENG. CALC BOOK)
SIPTP 8" SCREW	12" O.C. U.N.O.	ALL WALL CORNERS - TYP.

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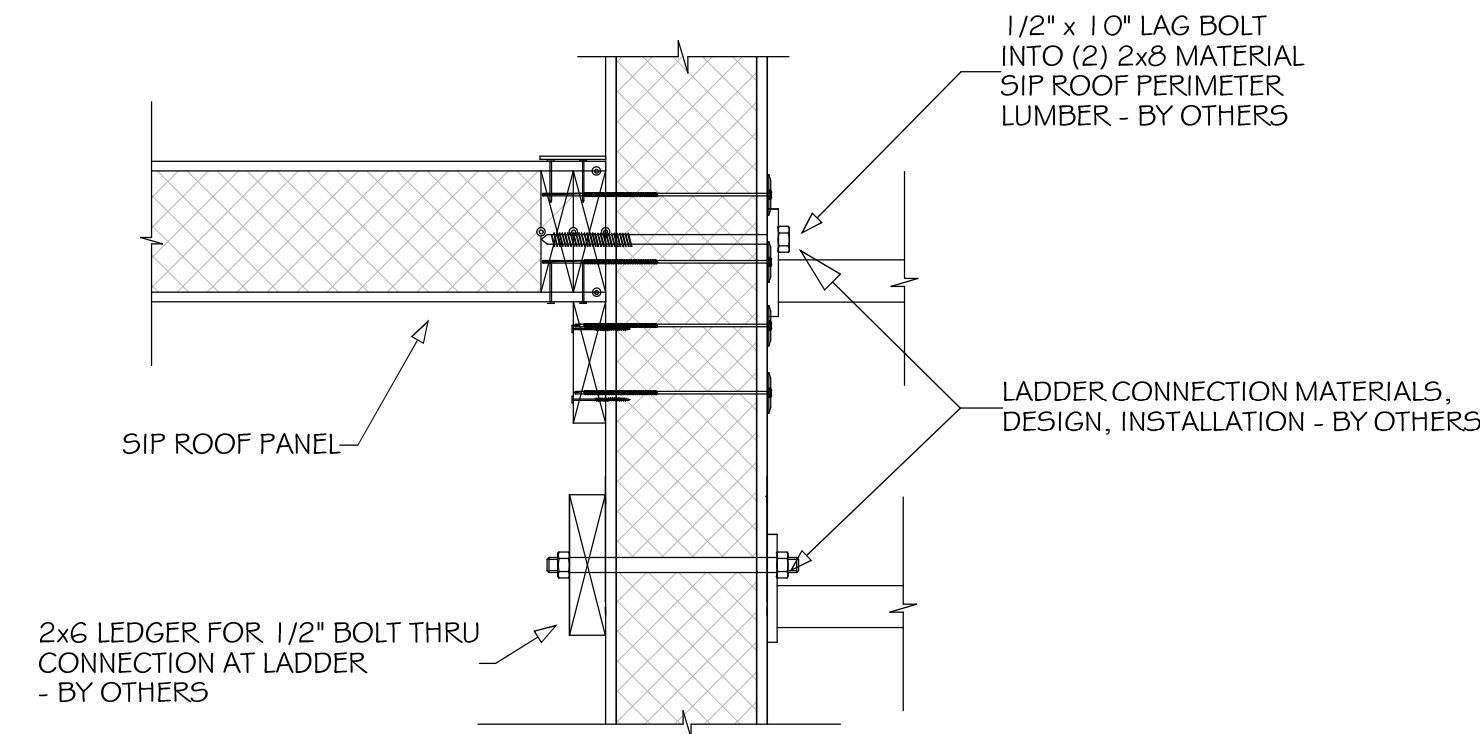


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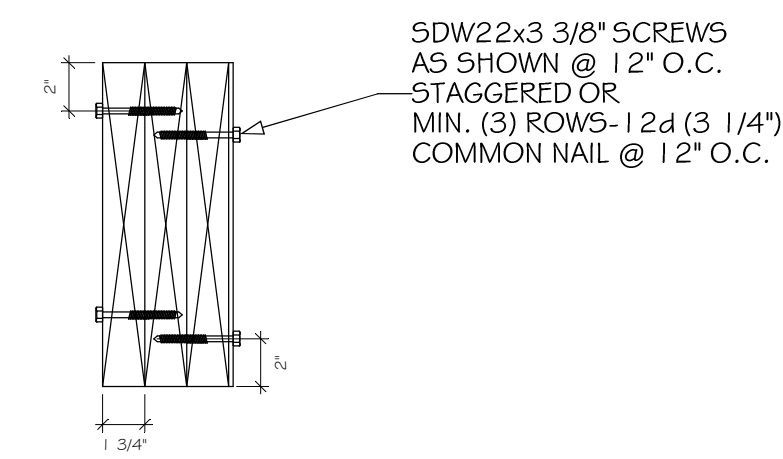
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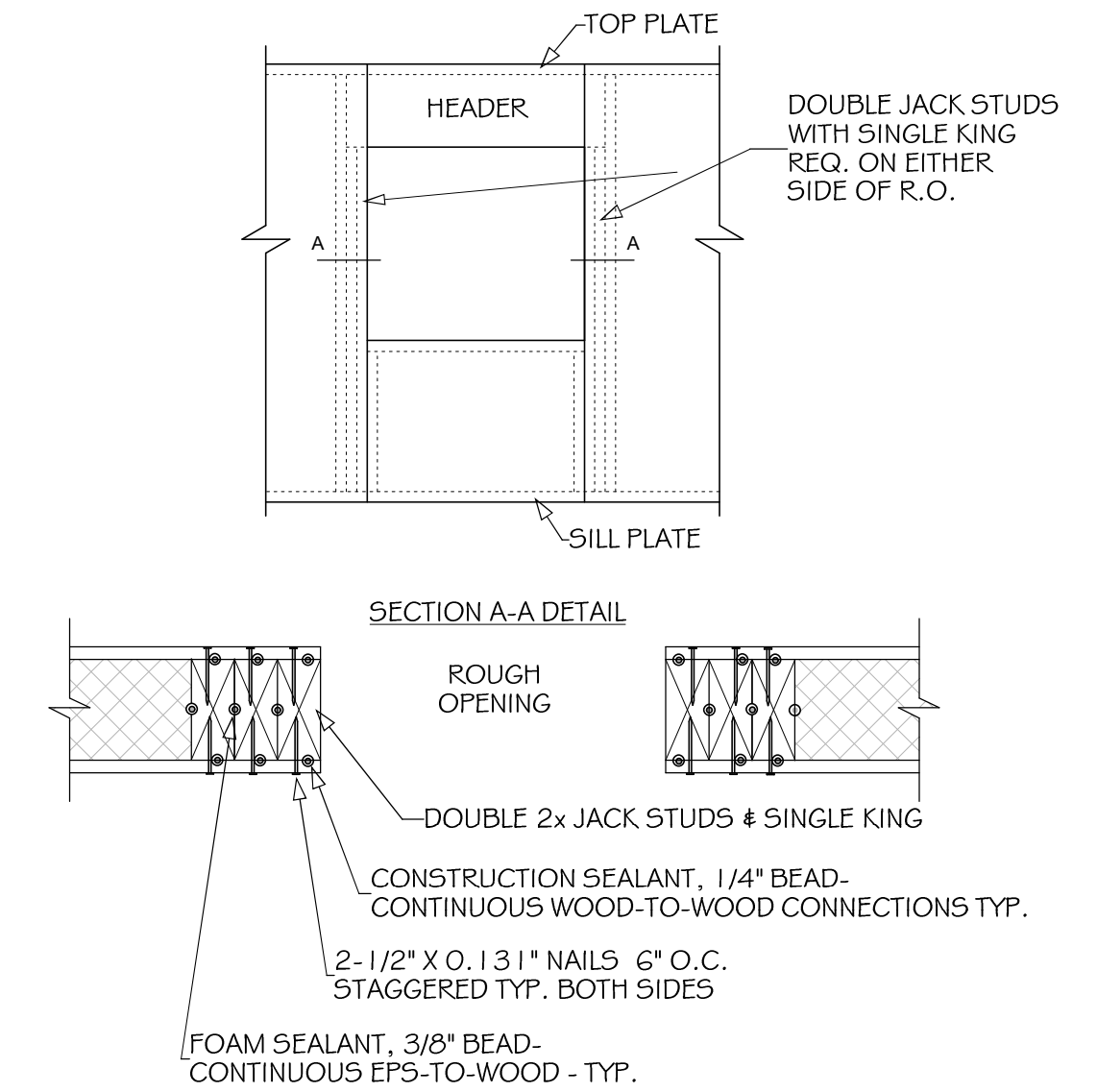
8 PARAPET BRACING ATTACHMENT  
BOTH BUILDINGS DETAIL



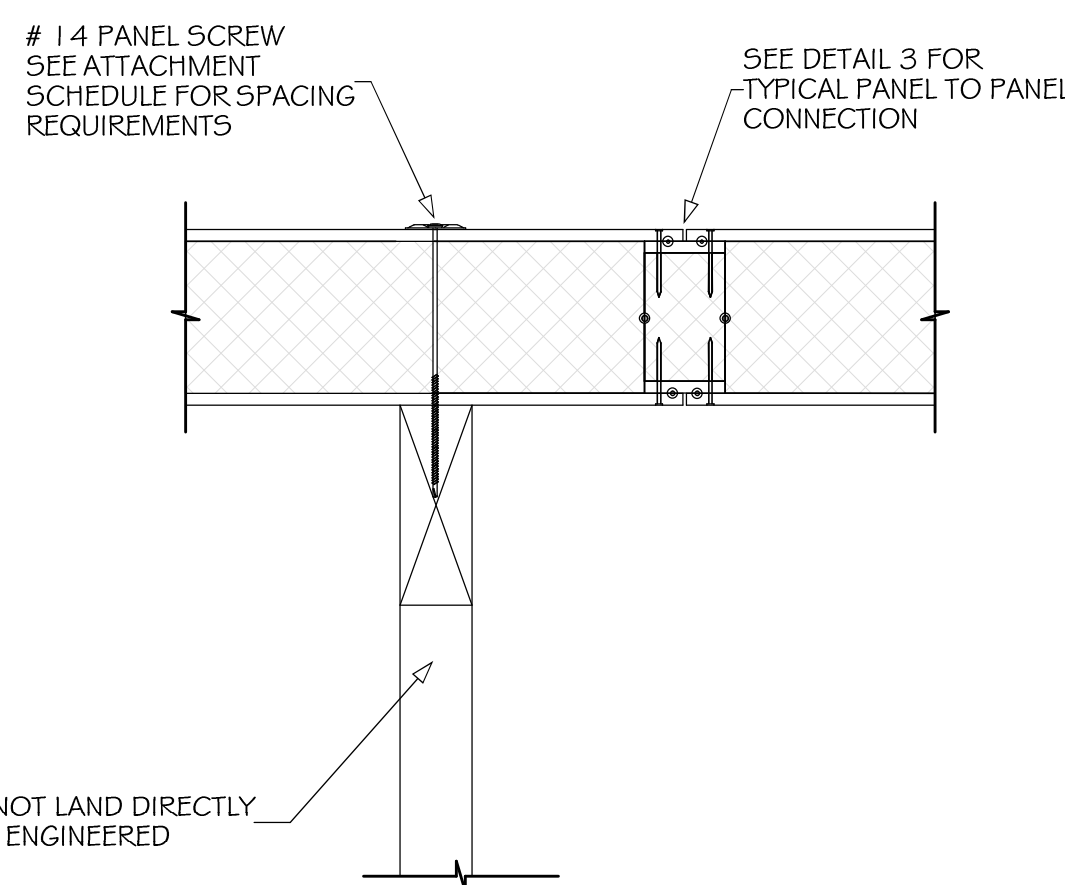
9 LADDER PORT CONNECTION  
MAIN BUILDING DETAIL



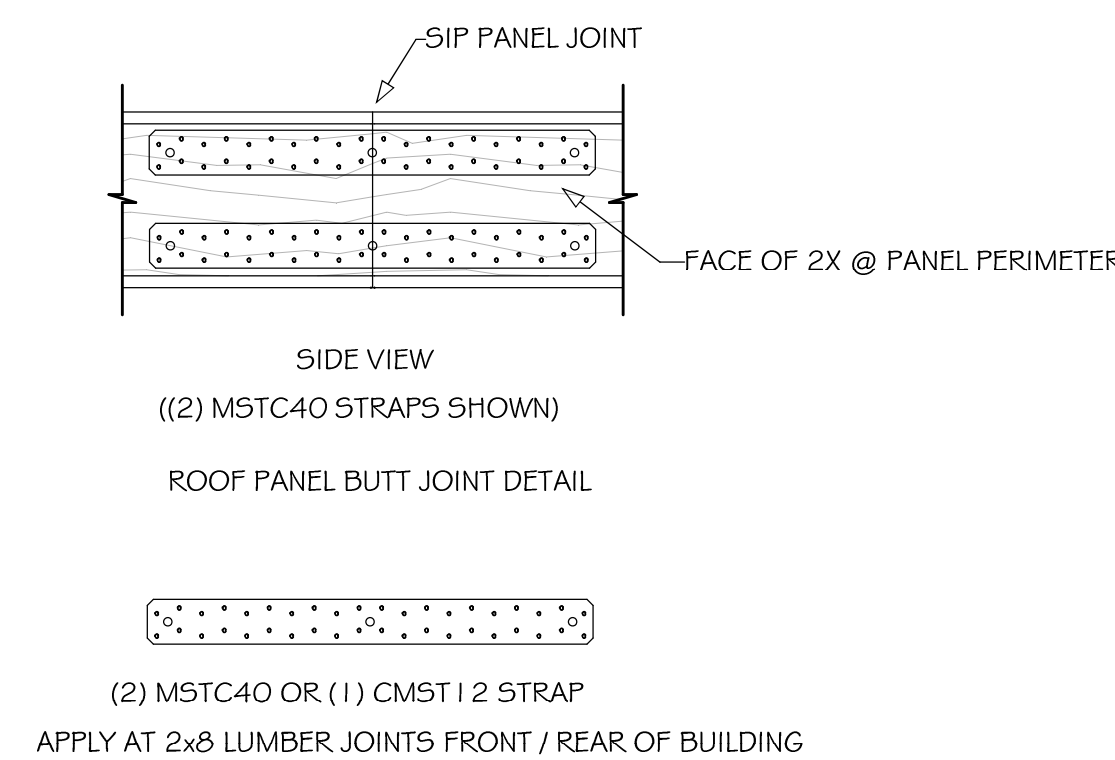
10 3-PLY LVL FASTENING PATTERN  
BOTH BUILDINGS DETAIL



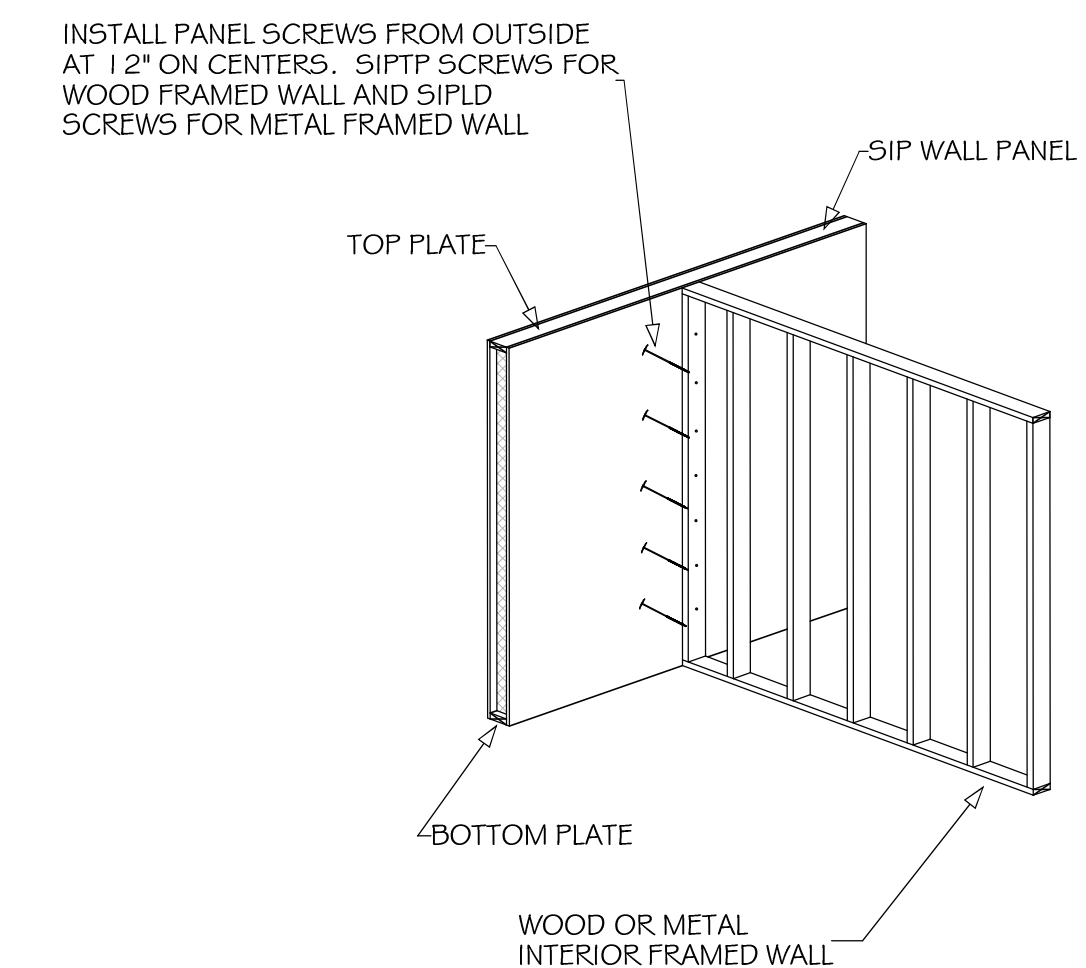
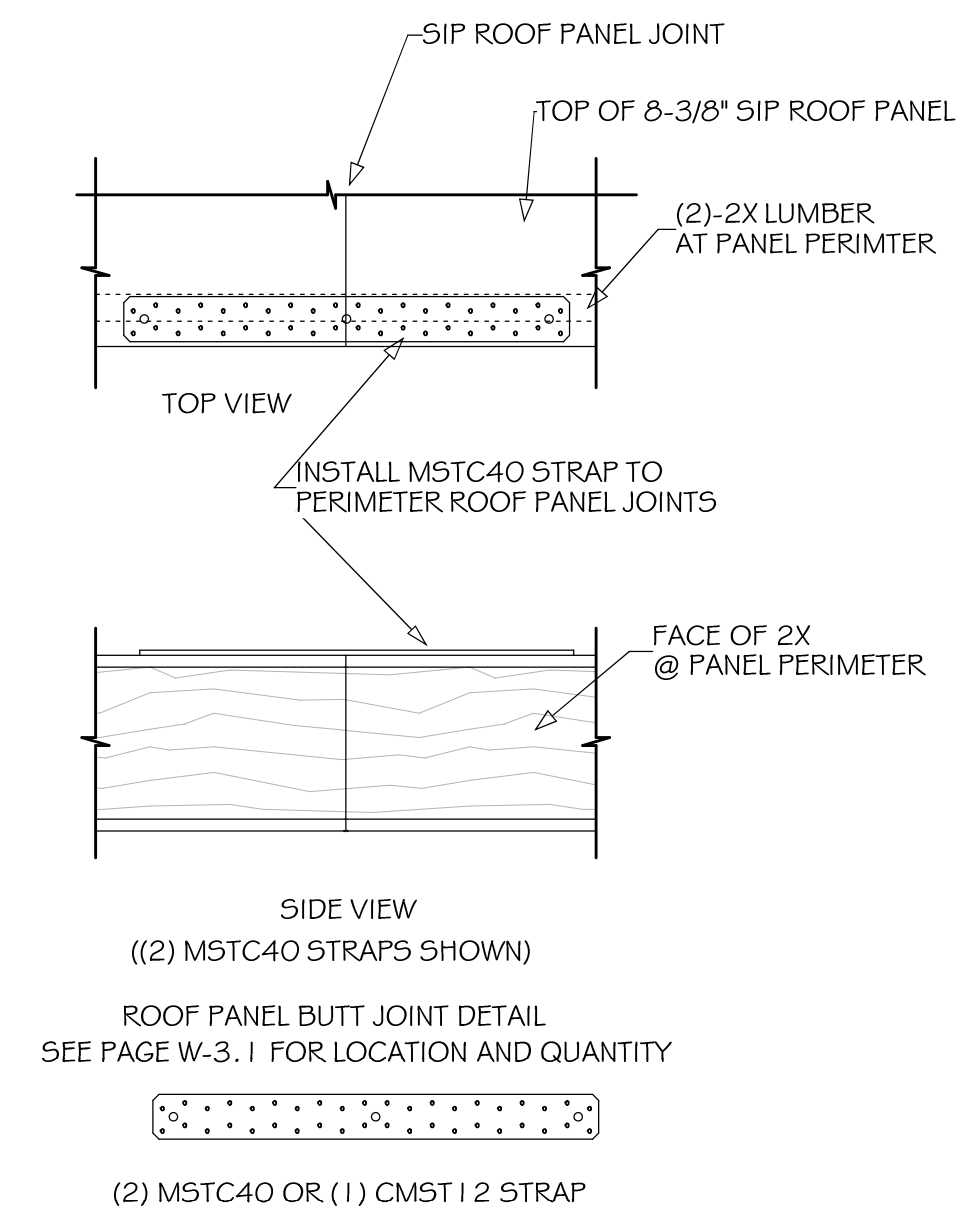
11 TYPICAL CONSTRUCTION OF ROUGH OPENING INCLUDING (SJS) HEADER  
BOTH BUILDINGS DETAIL



12 PANEL-TO-PANEL CONNECTION AT C/L OF TRUSSES  
MAIN BUILDING DETAIL



DETAIL A  
STRAP APPLIED TO SIDE OF PANEL



14 INTERIOR FRAMED WALL TO SIP WALL CONNECTION  
BOTH BUILDINGS DETAIL

13 SIMPSON MSTC40 STRAP DETAIL  
BOTH BUILDINGS DETAIL

FASTENER SCHEDULE - ENGINEERING DATA		
TYPE	SPACING	LOCATION
SIPTP 10" SCREW	SEE W-5.2	TO WALLS & ROOF TRUSSES (OR SEE ENG. CALC BOOK)
SIPTP 8" SCREW	12" O.C. U.N.O.	ALL WALL CORNERS - TYP.

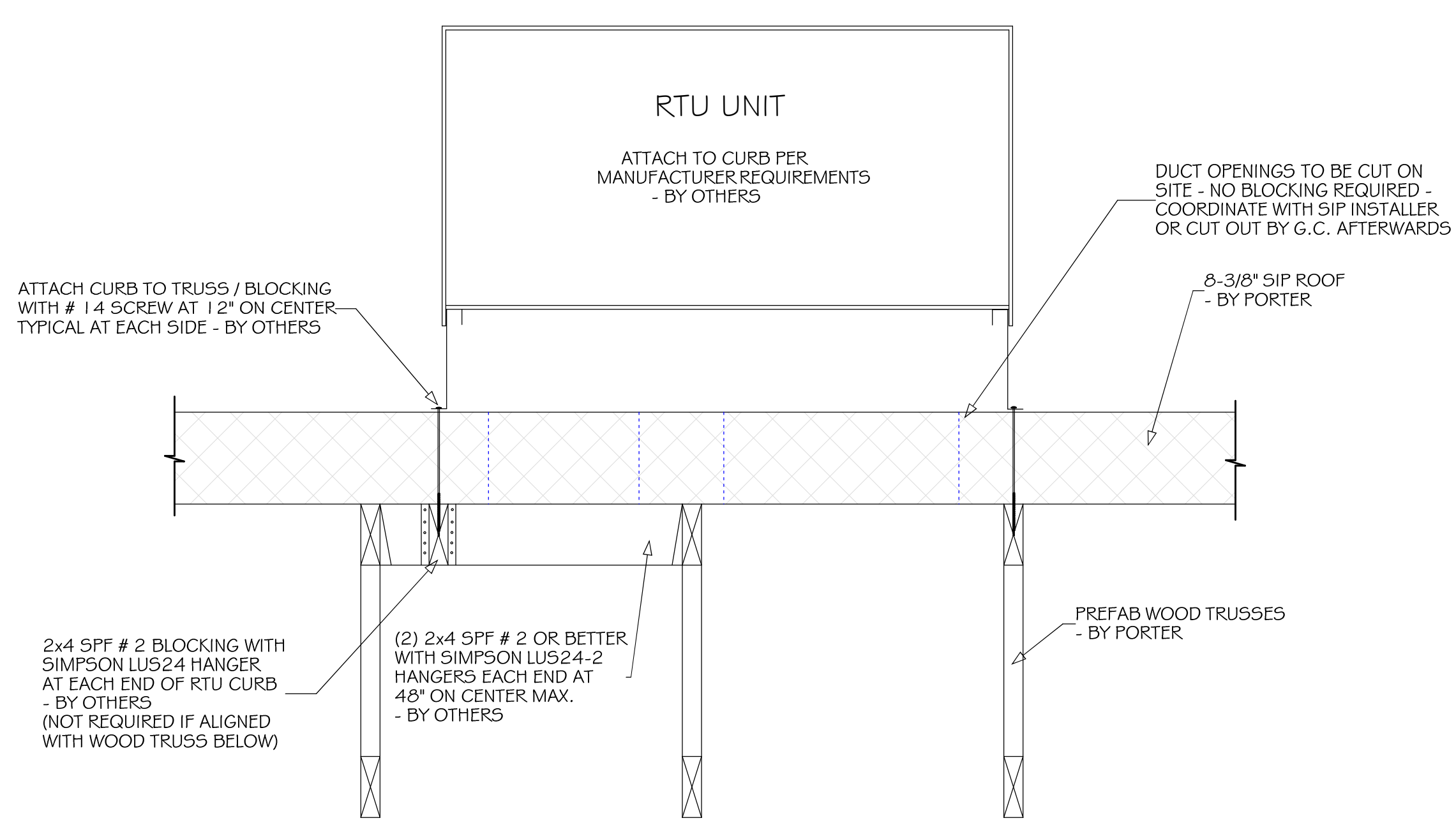
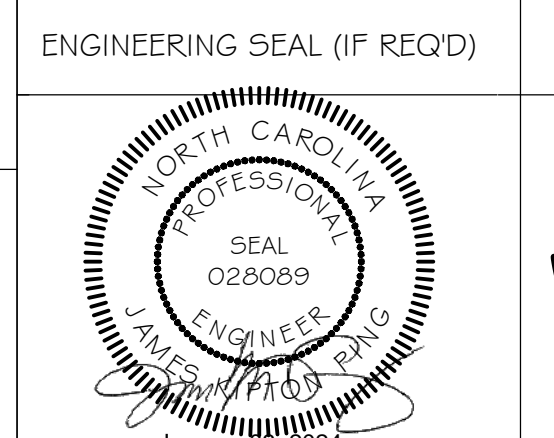
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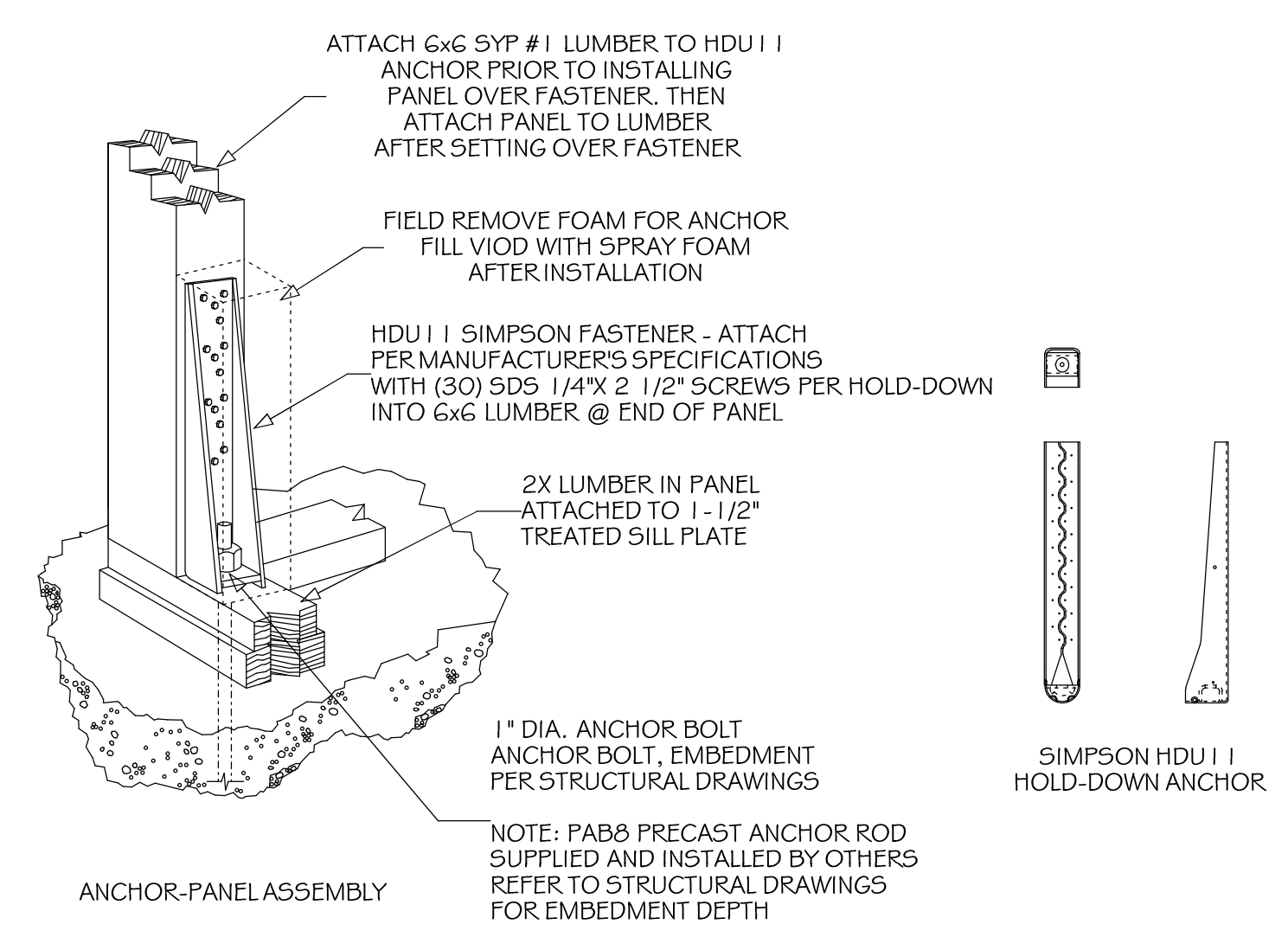
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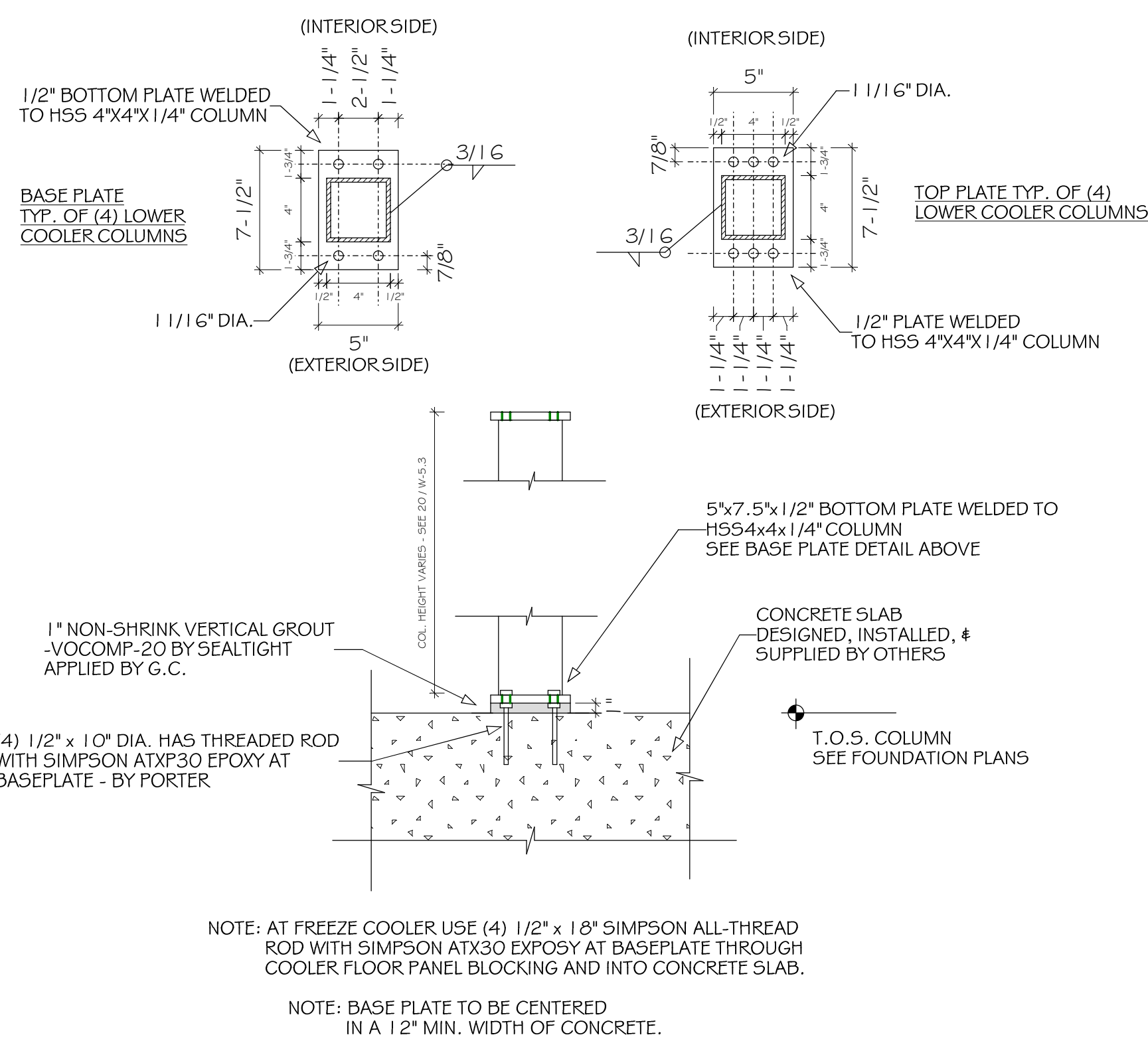
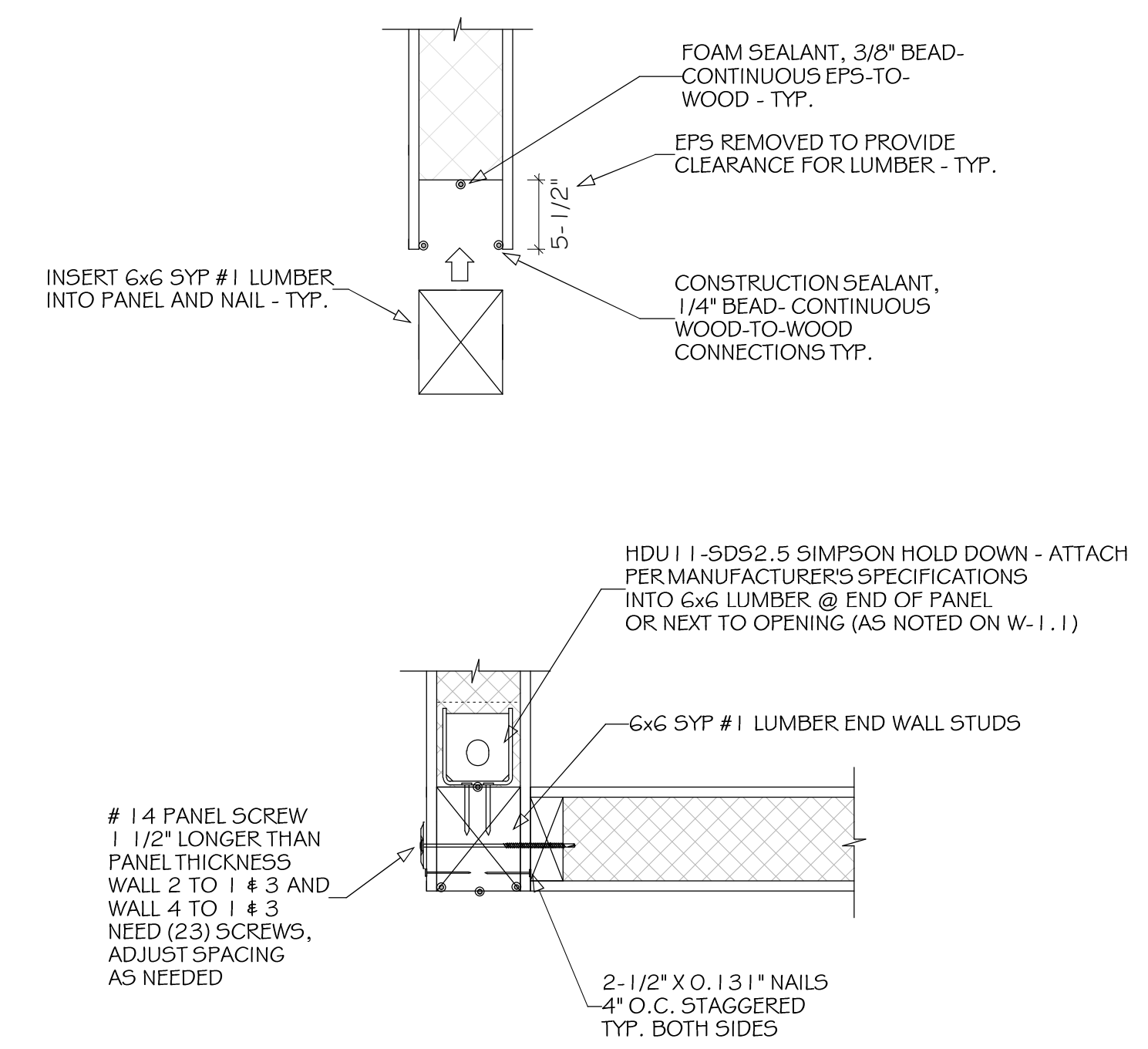
REVISION	DATE
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2	01-03-24
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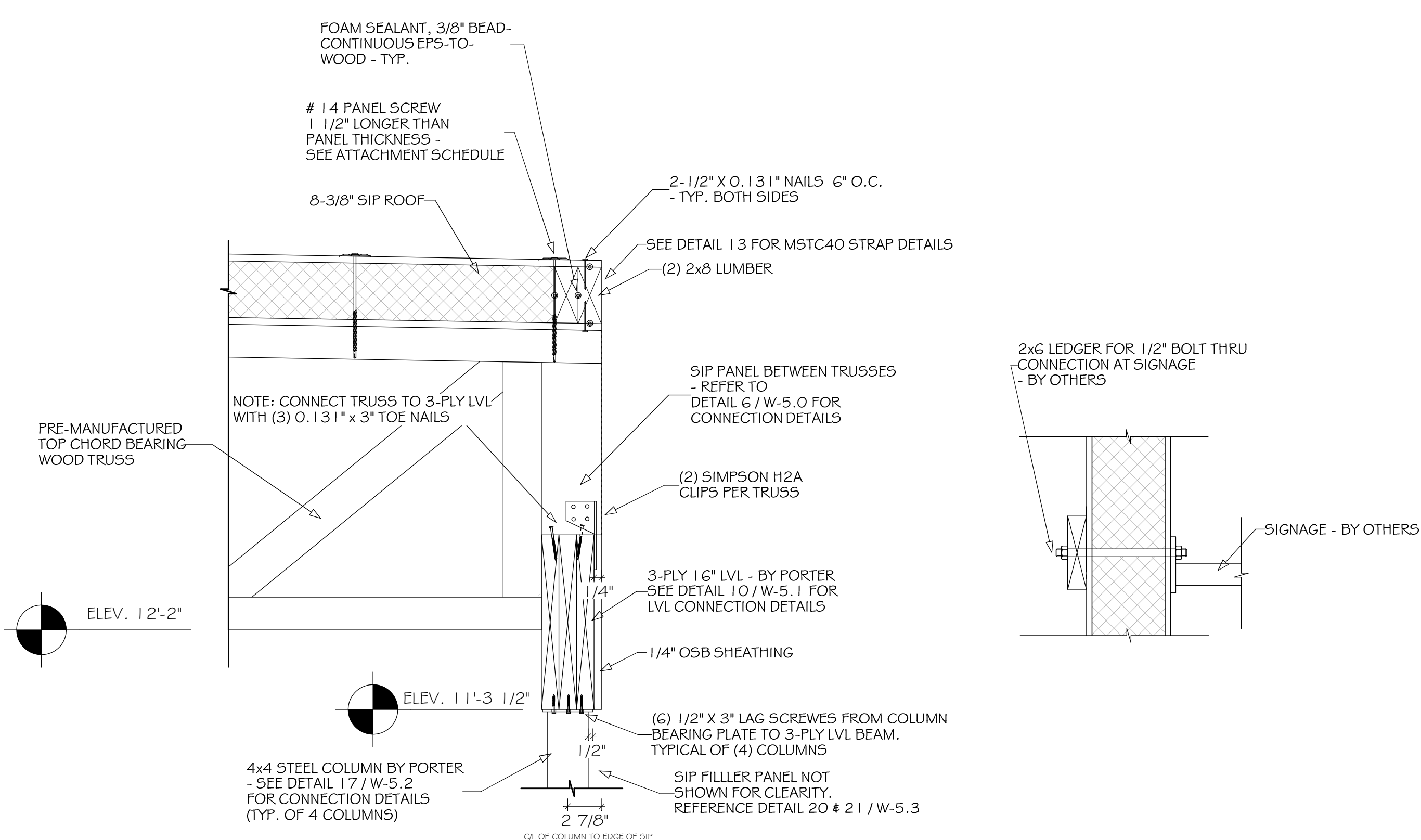
15 HVAC SUPPORT DETAILS  
MAIN BUILDING DETAIL



16 HDU I I-SDS2.5 HOLD DOWN  
MAIN BUILDING DETAIL



17 STEEL COLUMN FROM SLAB TO COOLER CEILING CONNECTION  
MAIN BUILDING DETAIL



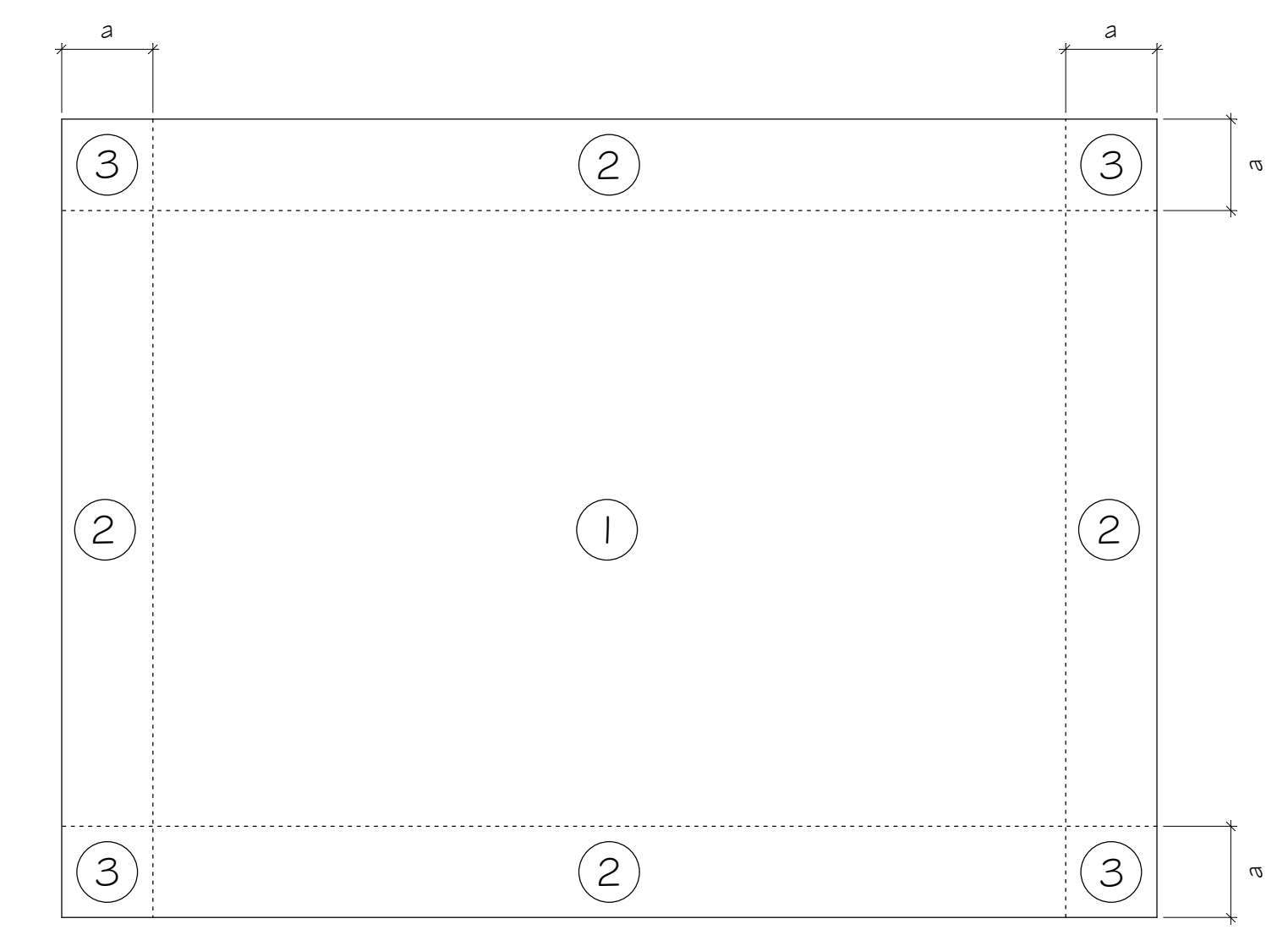
18 REAR WALL SIP CONNECTION  
MAIN BUILDING DETAIL

19 SIGNAGE TO SIP CONNECTION  
MAIN BUILDING DETAIL

ASCE 7-10 ROOF ATTACHMENT SCHEDULE:

ROOF ATTACHMENT TO WALLS / PARAPET:	
# 14 SIP SCREW AT:	11" O.C.
ROOF ATTACHMENT TO TRUSSES:	
ZONE 1:	# 14 SIP SCREW AT: 32" O.C.
ZONE 2:	# 14 SIP SCREW AT: 13" O.C.
ZONE 3:	# 14 SIP SCREW AT: 9" O.C.

a = 3'-0"



20 ROOF ATTACHMENT SCHEDULE  
MAIN BUILDING DETAIL

FASTENER SCHEDULE - ENGINEERING DATA		
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SIPTP 8" SCREW	12" O.C. U.N.O.	ALL WALL CORNERS - TYP.

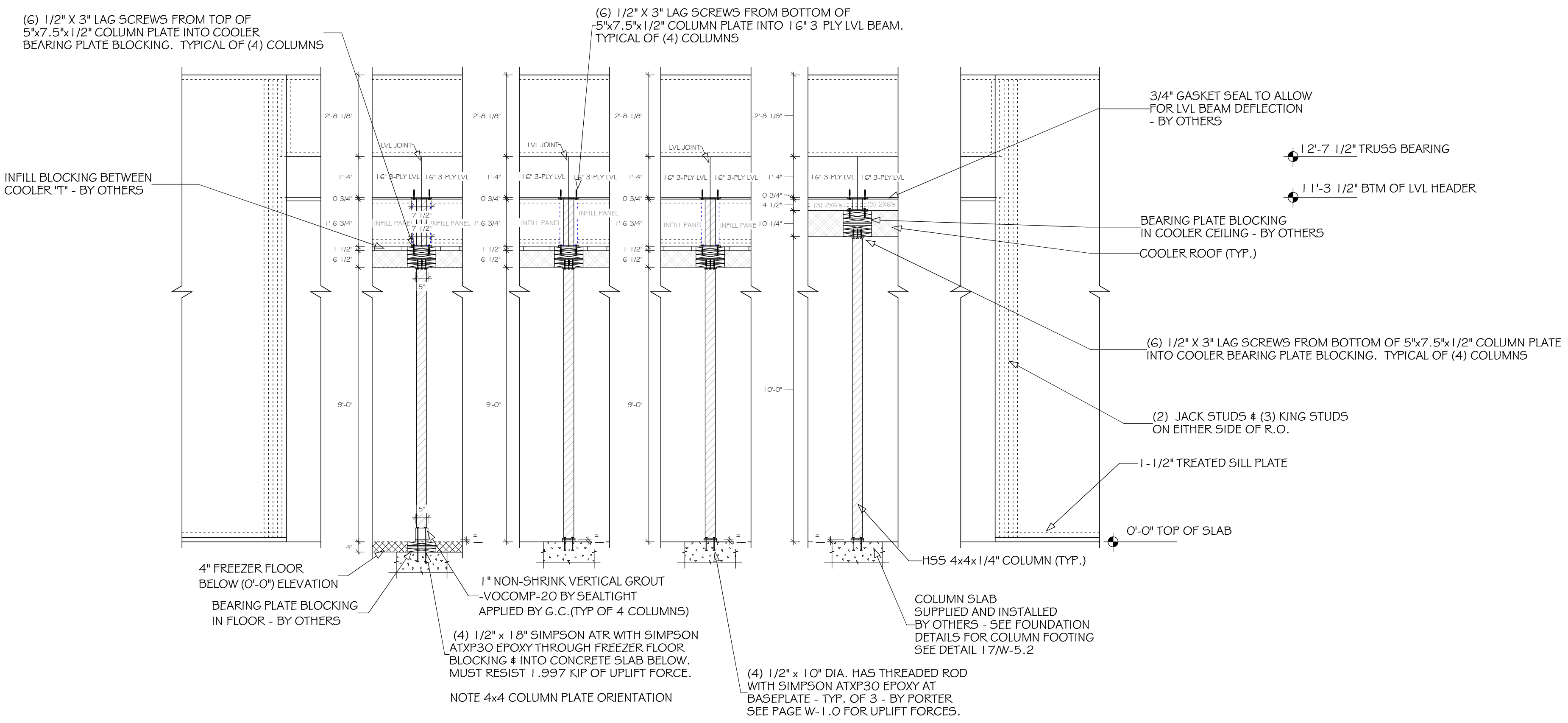
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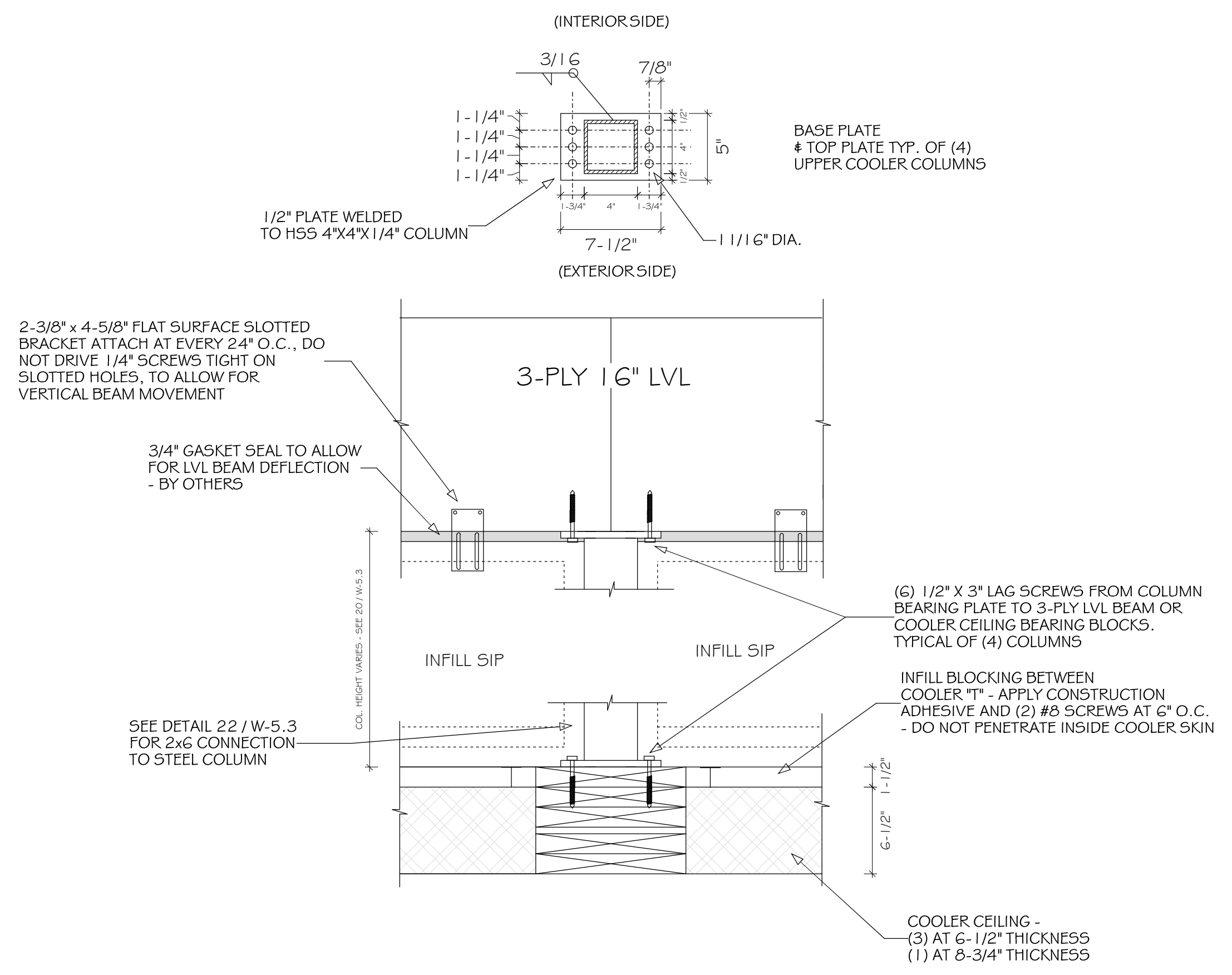
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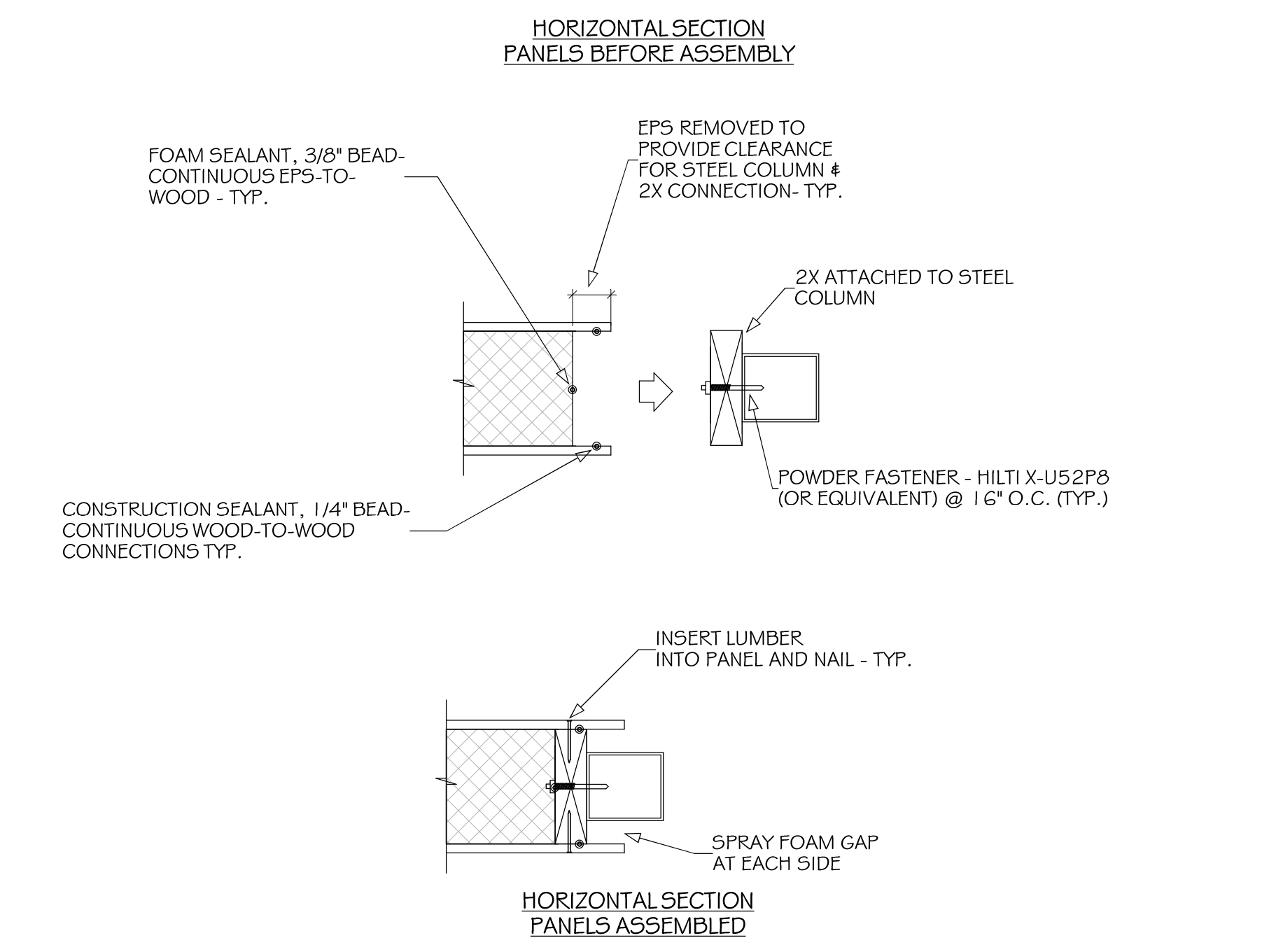
W-5.2



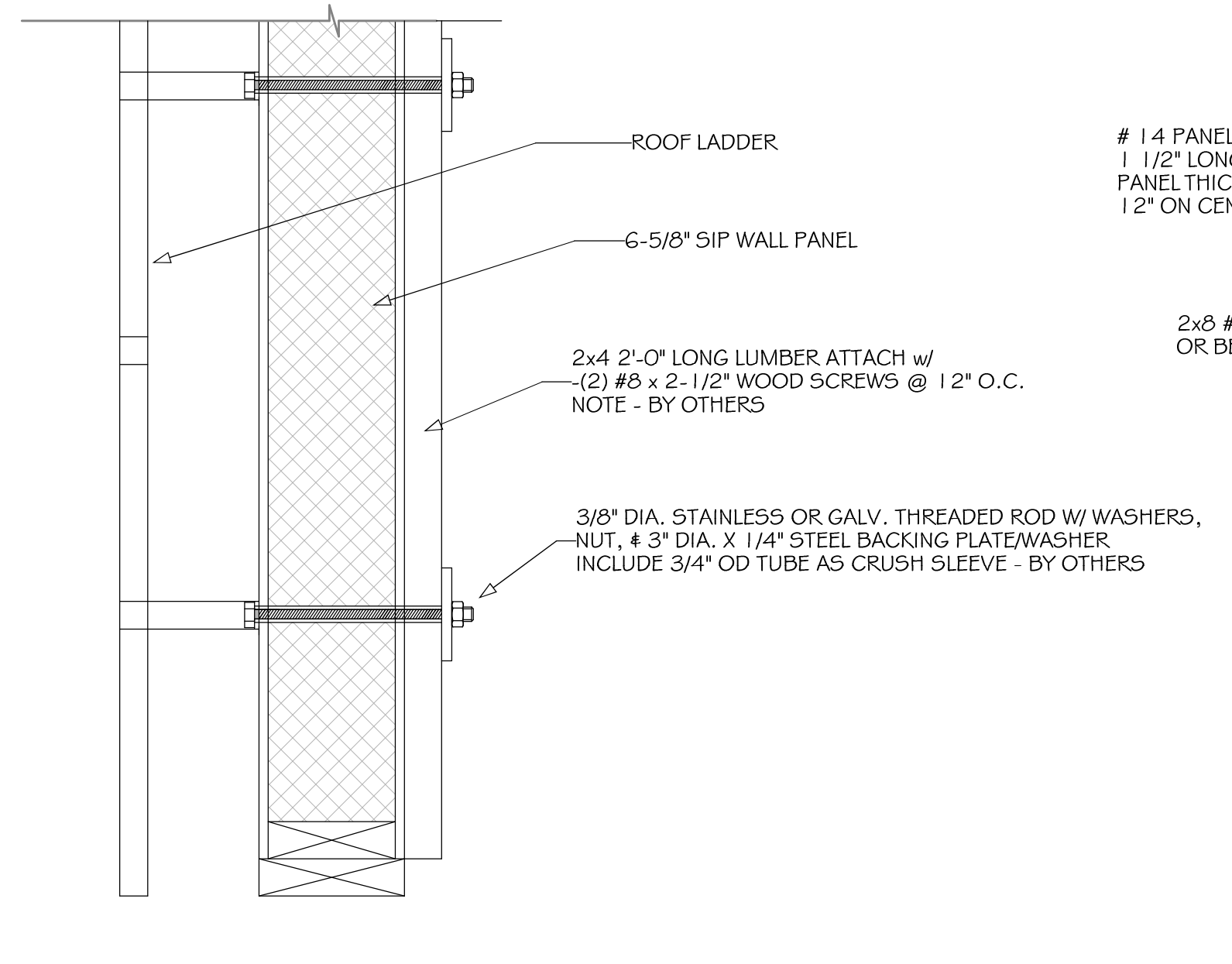
20 COLUMN TO COOLER & UPPER COLUMN TO 1 6" LVL BEAM CONNECTION  
MAIN BUILDING DETAIL



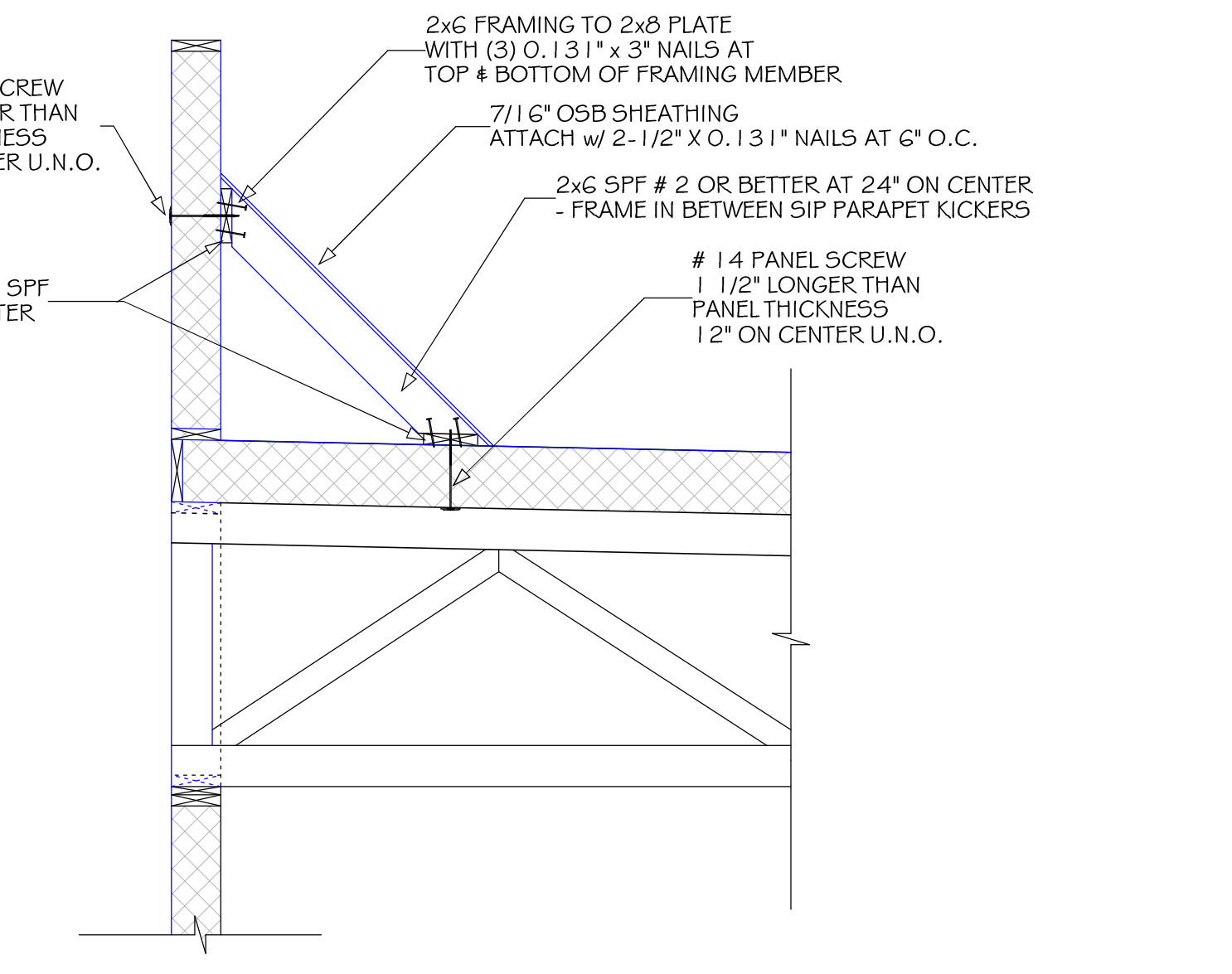
21 4x4 COLUMN CONNECTION FROM COOLER ROOF TO 3-PLY LVL  
MAIN BUILDING DETAIL



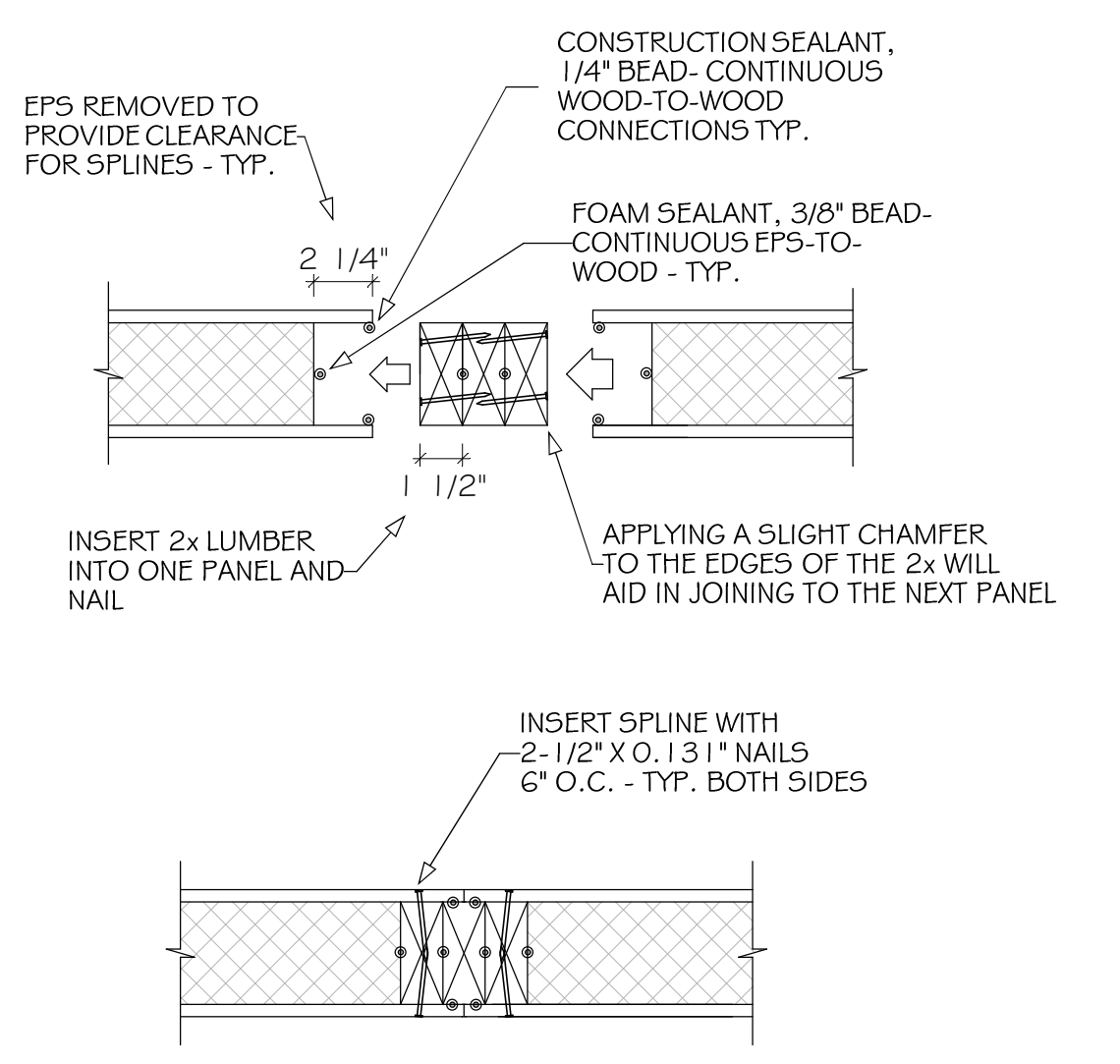
22 INFILL PANEL CONNECTION TO STEEL COLUMN  
MAIN BUILDING DETAIL



23 LADDER CONNECTION DETAIL  
MAIN BUILDING DETAIL



24 PARAPET FRAMING / SHEATHING



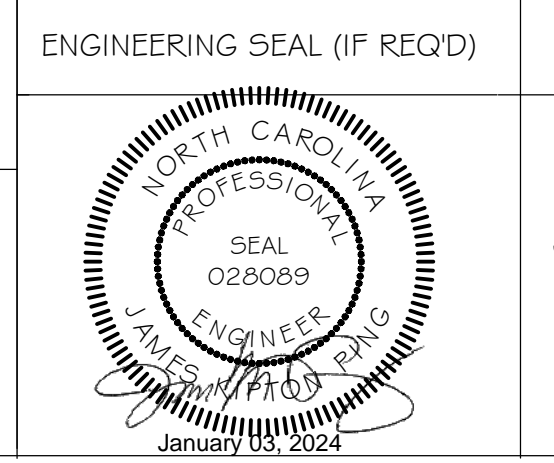
25 PANEL-TO-PANEL CONNECTION WITH (3)-2x LUMBER

FASTENER SCHEDULE - ENGINEERING DATA		
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BID SET

W-5.3