

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE (2012 IBC), WITH WA STATE AMENDMENTS, WHICH UTILIZES ASCE 7-10 AND THE 2005 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NATIONAL FOREST & PAPER ASSOCIATION).
2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH AN ASTM F844 STANDARD FLAT WASHER (MIN. 1-3/4" DIA/ X 0.134" THICKNESS). BOLTS SHALL BE ASTM-A307. BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT DIAMETER. BOLT HOLES SHALL BE DRILLED STRAIGHT AND PERPENDICULAR TO THE POLE FACE TO ASSURE FULL BOLT BEARING.
3. REBAR SHALL BE MINIMUM GRADE 40.
4. FOOTING AND BACKFILL CONCRETE PROVIDED BY A NRMCA PRODUCER, MINIMUM 2800 psi COMPRESSIVE STRENGTH CAST AGAINST UNDISTURBED SOIL.
5. POLE HOLE COMPACTION: ABOVE CONCRETE ENCASEMENT PLACE COMPATIBLE GRANULAR FILL, FREE OF CLAYS OR ORGANIC MATERIAL, IN MAXIMUM 6" LIFTS, ACHIEVE 2000 PSF COMPACTION, AT EACH LIFT, USING A HAND OPERATED 4"x4"x6" POLE RAISE POLE 4" OR MORE ABOVE COMPACTION SURFACE AND DROP 4 OR MORE TIMES ON EACH 4" SOURCE. PROOF OF COMPACTION, BUTT END OF A 2x4 SHALL NOT PENETRATE COMPACTION MATERIAL OVER 1/8" DURING ANY OF REPEAT COMPACTION TO NOT THREE PLACE ON OR UNDER STANDING WATER.
6. 10d NAILS SHALL BE 3" LENGTH, 0.148" DIAMETER, STAINLESS STEEL OR GALVANIZED TO A MINIMUM OF G185, ASTM A123, OR ASTM B995 (CLASS 55 OR GREATER), 0.131" DIAMETER MAY BE SUBSTITUTED BY INCREASING QUANTITY @ EACH CONNECTION BY 22%.
7. PRESSURE PRESERVATIVE TREATED POLES SAME FOUR SPOCS, GENERAL GROUND CONTACT USE; ANPA STANDARD U1-07; MINIMUM USE CATEGORY UC4B; COMMODITY SECTION A, SIZE AND GRADE PER PLAN.
8. STRUCTURAL FRAMING OVER 8' IN LENGTH TO BE MINIMUM SH-42, OR 16K50R OR BETTER BLOCKING, BRACING AND OTHER MEMBERS MINIMUM #3, 10R, MAXIMUM MOISTURE CONTENT AT USE. SPOCS MAY BE DOUGLAS FIR or FIR-LARCH (DF/L), SPRUCE-PINE-FIR (SPF), OR HEM-FIR.
9. ROOF TRUSSES TO BE PREPARED/CUT FROM DESIGNS SIGNED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF IDAHO. ALL TRUSSES SHALL BE MANUFACTURED TO BE SUBJECT TO SHOWN QUALITY CONTROL BY AN INDEPENDENT THIRD-PARTY INSPECTORS PER IBC 2003.4 LIVE LOADS TO BE ADJUSTED BY IBC 1607.11.2.1 FOR SLOPE AS APPLICABLE.
10. PER ANSI/PHI 1-2007 SECTION 2.3.2.3 TRUSS SUBMITTALS HAVE BEEN REVIEWED AND ARE FOUND TO BE IN GENERAL COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARD. THE PERMANENT LATERAL BRACING HEREIN MEETS THE REQUIREMENTS OF ANSI/PHI 1-2007 SECTION 2.3.3.2. TRUSS WEB MEMBER SIZES AND CONFIGURATION MAY VARY FROM DEVISIONS HEREON, REFER TO MANUFACTURER'S DRAWINGS FOR ACTUAL.
11. STEEL ROOFING AND/OR SIDING PANELS 36" NET COVERAGE WITH 3/4" HIGH RISERS NINE INCHES ON CENTER, ASTM A446 GRADE E (60,000 PSI MINIMUM YIELD), .0157" THICKNESS FOLLOWING: GALVALUME 24 OR 26 GAUGE, 12" RISE, 18" SPAN, 12" OVERLAP, GALVANIZED SHEET STEEL, UL 790 CLASS A FIRE RESISTANCE RATED.
12. WARNING: ADDED INSULATION, CEILING MATERIALS, LIGHTING, HVAC EQUIPMENT OR OTHER COLLATERAL LOADS IMPOSED UPON THE STRUCTURE SHALL BE DESIGNED TO BE WITHIN THE CAPACITY OF THE OVERALL CAPACITY OF THE STRUCTURE AND ITS ABILITY TO RESIST REQUIRED DESIGN SNOW LOADS.
13. THIS POST FRAME BUILDING IS DESIGNED BY THIS ENGINEER OF RECORD AS REGISTERED DESIGN PROFESSIONAL (RDP) HAVING BEEN DESIGN RESPONSIBLE FOR ONLY THIS DESIGN. DESIGNER'S SIGNATURE, PROFESSIONAL SEAL, AND ADDRESS SHALL BE ON THE DESIGN CRITERIA FOR AND AT THE INDICATED JOB SITE ADDRESS ONLY, WHICH HAVE BEEN PROVIDED AND/OR VERIFIED BY CLIENT.
14. UNLESS APPROVED BY THIS RDP, THE ENGINEERING SEAL AND SIGNATURE OF THE DESIGNER SHALL BE REQUIRED FOR ALL STRUCTURAL MATERIALS AND/OR CONSTRUCTION BE SUBSTITUTED, REPLACED, DEPART, DEVIATE, OR ARE OTHERWISE ALTERED FROM THE ORIGINAL HANSEN POLE BUILDINGS, LLC ENGINEERED BUILDING KIT THEY BELONG TO, INCLUDING BUT NOT LIMITED TO STRUCTURAL MATERIALS FROM SUPPLIERS NOT AUTHORIZED BY HANSEN POLE BUILDINGS, LLC.
15. MATERIALS DURING OR TAKEOFF BY PARTIES OTHER THAN HANSEN POLE BUILDINGS, LLC AND/OR THEIR AUTHORIZED AGENTS IS STRICTLY PROHIBITED. VIOLATORS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.
16. CUTTERS AND CONNEGOURS, IF REQUIRED BY THE GOVERNING JURISDICTION, WILL BE PROVIDED BY THE CLIENT.
17. ENTRY DOOR HARDWARE, IF PROVIDED BY HANSEN BUILDINGS, LLC, KNOCKOUT T110 ENTRY KNOB FEATURING SMARTKEY IN SPAIN (DO NOT USE), ANS/CPMA GRADE 3 CERTIFIED PART NUMBER 400T 220 SWT 64, RCS LIFETIME MECHANICAL AND FINISH WARRANTY DIMENSION 7-4" X 3-3" X 2-8"

CODE DATA

Code: 2012 IBC

Building Occupancy Classification: U

Type of Construction: V-B

Number of Stories: 1

Building Footprint Width: 60'

Square Footage (area contained by embedded poles): 3600 ft2

Total roof area: 4318 ft2

Total wall area: 3782 ft2

Building Eave Height (Roof Above 0.0 Grade at Sidewall): 17'

Roof Style: GABLE

Roof slope: 4/12

Mean Roof Height: 22'

Non-conditioned

Floor Live Load: does not apply

Interior double trusses: 37,502 psf using ps

Ground Snow Load (pg) = 40 psf

Flat-Roof Snow Load (pf): 40 psf

Roof Dead Load: 3.3 psf

Ceiling Dead Load: 5 psf

Snow Exposure Factor (Ce): 1

Snow load importance factor (Is)1

Thermal Factor (Ct): 1.2

Slope Factor: 0.938

Sloped Roof Snow Load (ps): 37,502 psf

Roof Duration of Loads for Gravity/Live: 1.15

Wind: 105 mph

Vasd: 81 mph

Risk Category: 1

Wind Exposure: C

Applicable Internal Pressure Coefficient: 0.18

Components and Cladding Design Wind Pressure:

Zone 1: -23,701

Zone 2: -41,151

Zone 3: -60,896

Zone 4: -28,111

Zone 5: -34,685

Zone 1 Positive: 16,232

Zone 2 Positive: 16,232

Zone 3 Positive: 16,232

Zone 4 Positive: 28,47

Zone 5 Positive: 28,47

Duration of Load for Wind: 1.6

Enclosed Structure

Seismic Use Group: c

Spectral Response Coefficients (SS): 0.185g(S1); 0.059g(SDS); 0.19733g (SD1); 0.0944g

Site Class: D

Basic seismic-force-resisting system: Light-framed walls sheathed with wood structural panels rated for shear resistance or steel sheets

Design Base Shear: 3582.716

Analysis Procedure: Equivalent Lateral Force per 12.8 ASCE

Soil Class: 5

Allowable Foundation Pressure: 1500

Lateral Bearing: 100 psf/ft

Frost Depth: 40"

Concrete Slab on Grade: Yes 4" thick slab

Commercial Grade Insulated Steel Entry Doors have Steel Frame with an R-13

1008.1.6 Landings at doors.

Landings shall have a width not less than the width of the stairway or the door, whichever is greater.

Doors in the fully open position shall not reduce a required dimension by more than 7 inches (178 mm).

When a landing serves an occupant load of 50 or more, doors in any position shall not reduce the landing to less than one-half its required width. Landings shall have a length measured in the direction of travel of not less than 44 inches (1118 mm).

Exception: Landing length in the direction of travel in Groups R-3 and U and within individual units of Group R-2 need not exceed 36 inches (914 mm).

Stratford 2000 overhead doors have an R 6.64

ESR 1980 & ESR 2240 Micropro Pressure Treated Wood

ESR 2644 ACO Pressure Treated Wood

ESR 1721 Wornonized Outdoor Preservative Treated Wood

ESR 2523 Simpson Strong-Tie Products

ESR 2349 & ESR 3096 U series

ESR 2613 & ESR 3096 H1

ESR 2105 LSTFA and HST series

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ABBREVIATIONS

BL – Building Line

CL – Center Line

Col. – Column

Conc. – concrete

Det. – Detail

DF/L – Douglas Fir/Larch

Dia. – Diameter

EA – Eave

EQ – Equal

FT – foot

Hem – Hemlock

HIB – Handling, Installing and Bracing (of metal plate connected wood trusses)

HVAC – Heating Ventilation and Air Conditioning

IBC – International Building Code

LLC – Limited Liability Corporation

MNFG – Manufactured

MSR – Machine Stress Rated

N.T.S. – Not to Scale

O.C. – On Center

P.E. – Professional Engineer

PERP. – Perpendicular

Ph – Phone

Pre-Fab – Prefabricated

Ps – roof live load adjusted for slope

PSI – Pounds per Square Inch

PSF – Pounds per Square Foot

psf/ft – pounds per square foot per foot of depth

P.T. – Pressured Treated

RDP – Registered Design Professional

SELSTR – Select Structural

SHt – Sheet

SPT – Spruce Pine Fir

STD – Standard

TYP – Typical

U.O.N. – Unless Otherwise Noted

ACRONYMS

ANSI – American Iron and Steel Institute

ASCE – American National Standards Institute

ASIM – American Society of Civil Engineers

AWPA – American Wood Protection Association

HIB – Handling, Installing and Bracing (of Metal Plate Connected Wood Trusses)

IBC – International Building Code

ICC/ESR – International Code Council/Evaluation Service Report

NRMCA – National Ready Mixed Concrete Association

TPI – Truss Plate Institute

CLIENT: TODD MANALLY

JOB SITE ADDRESS: 18881 JONES RD., PETRON, CO 80831

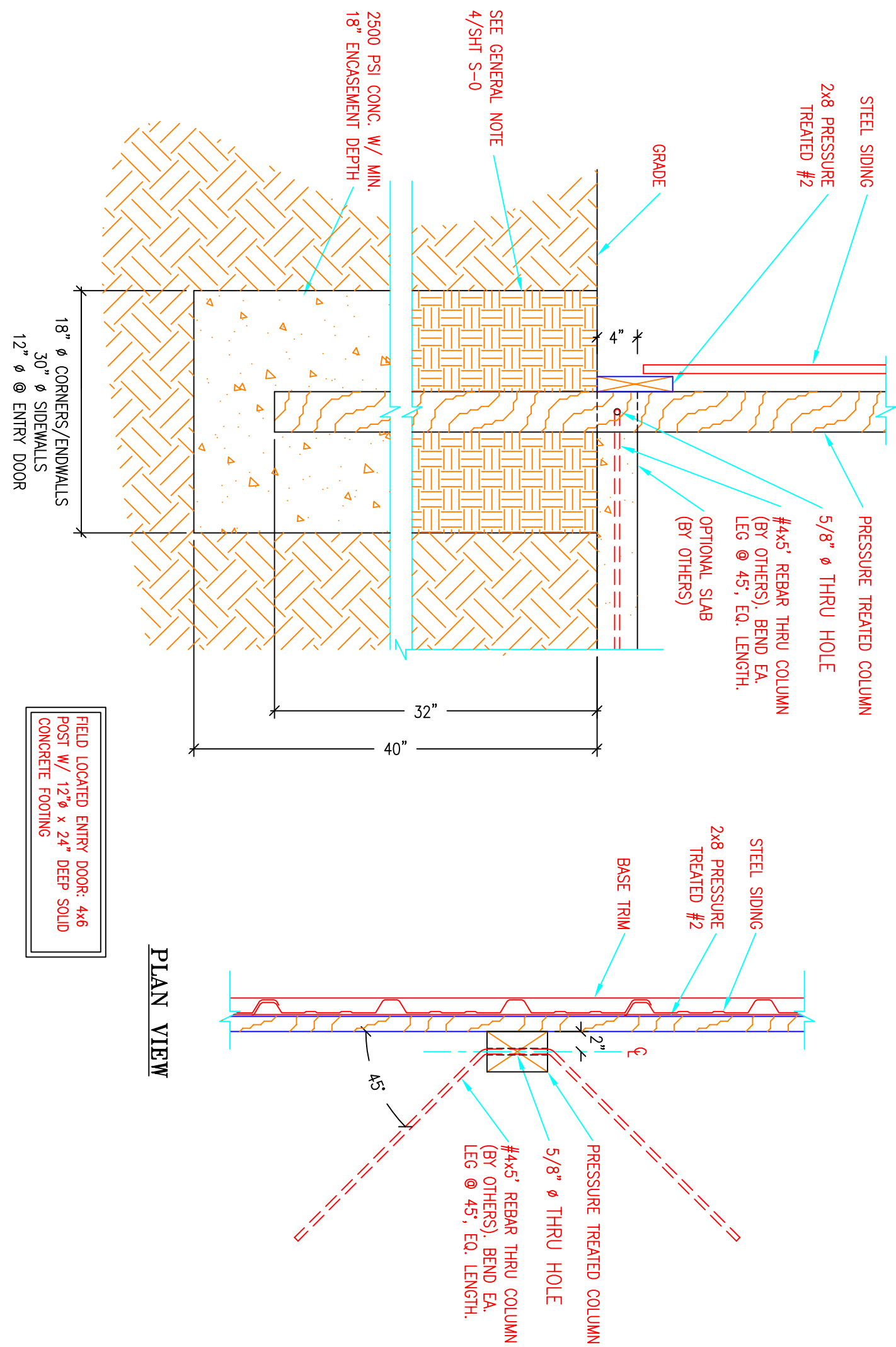
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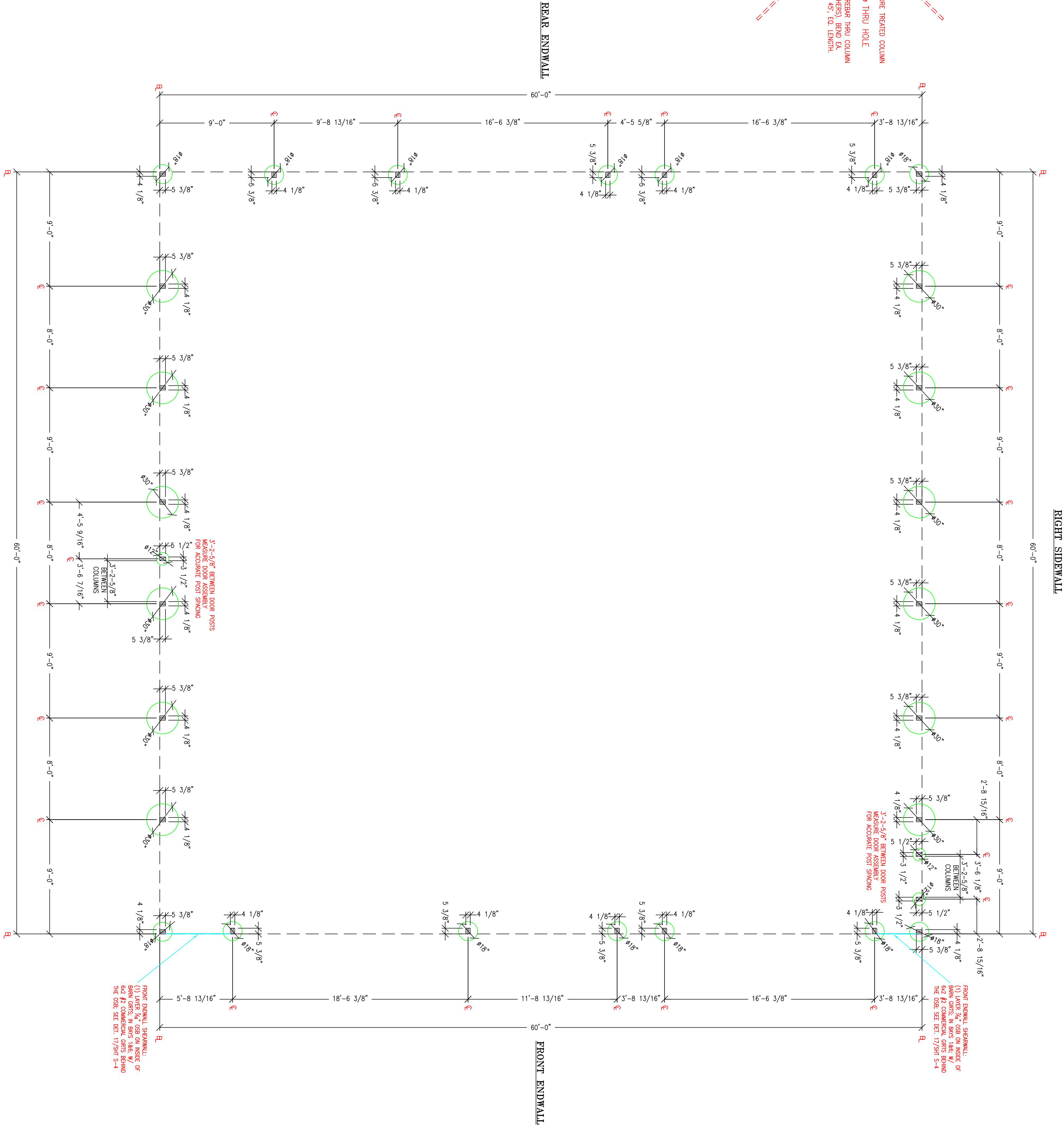
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SECTION @ CONCRETE  
FOOTING TO COL. ATTACHMENT

S-1

SCALE: 1"=1'-0"



CLIENT: T000 MANALLY

JOB SITE ADDRESS: 09901 JONES RD., PETRON, CO 80331

POLE LAYOUT/FOUNDATION

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

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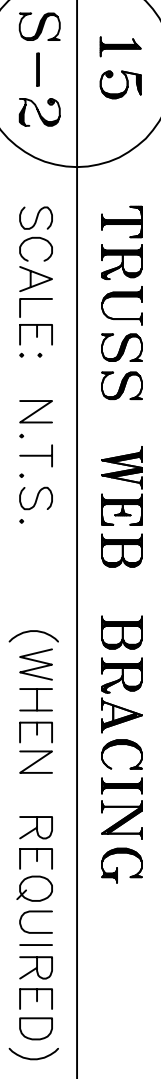
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S-1

1. A 1 x 9 OR STRUCTURAL GRADED "B" BRACE WILL BE MATCHED LAY TO THE EDGE OF THE MEMBER WITH 100 COMMON OR BOX NAILS AT 8" O.C. IF ONLY ONE BRACE IS REQUIRED, OR MAY BE MATCHED TO BOTH EDGES OF THE MEMBER IF TWO BRACES ARE REQUIRED. THE "T" BRACE MUST EXTEND A MINIMUM OF 80% OF THE MEMBERS LENGTH.
2. A 2 x 6 (ADD-ON) OF THE SAME SIZE AND STRUCTURAL GRADE AS THE MEMBER WAS MATCHED TO ONE FACE OF THE MEMBER WITH 100 COMMON OR BOX NAILS AT 8" O.C. IF ONLY ONE BRACE IS REQUIRED. A MINIMUM OF 2-6 SCABS ARE REQUIRED FOR EACH MEMBER EXCEEDING 14' - 0" IN LENGTH. SCABS MUST EXTEND A MINIMUM OF 12" FROM EACH END OF THE MEMBER.
3. ANY MEMBER REQUIRED TO HAVE TWO BRACES USE PERPENDICULAR BRACING OR MUST BE ANALYZED ON A CASE BY CASE BASIS.



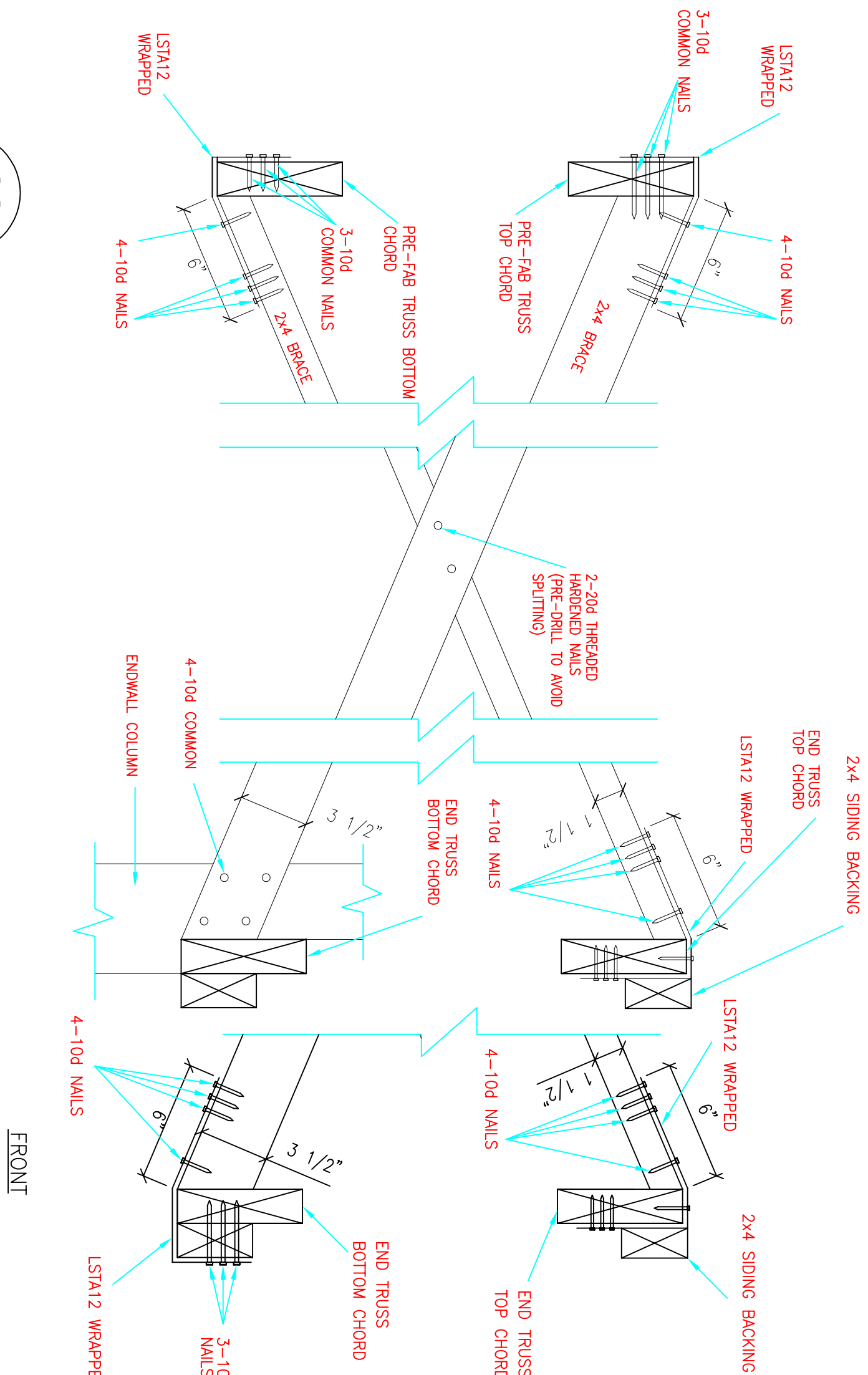
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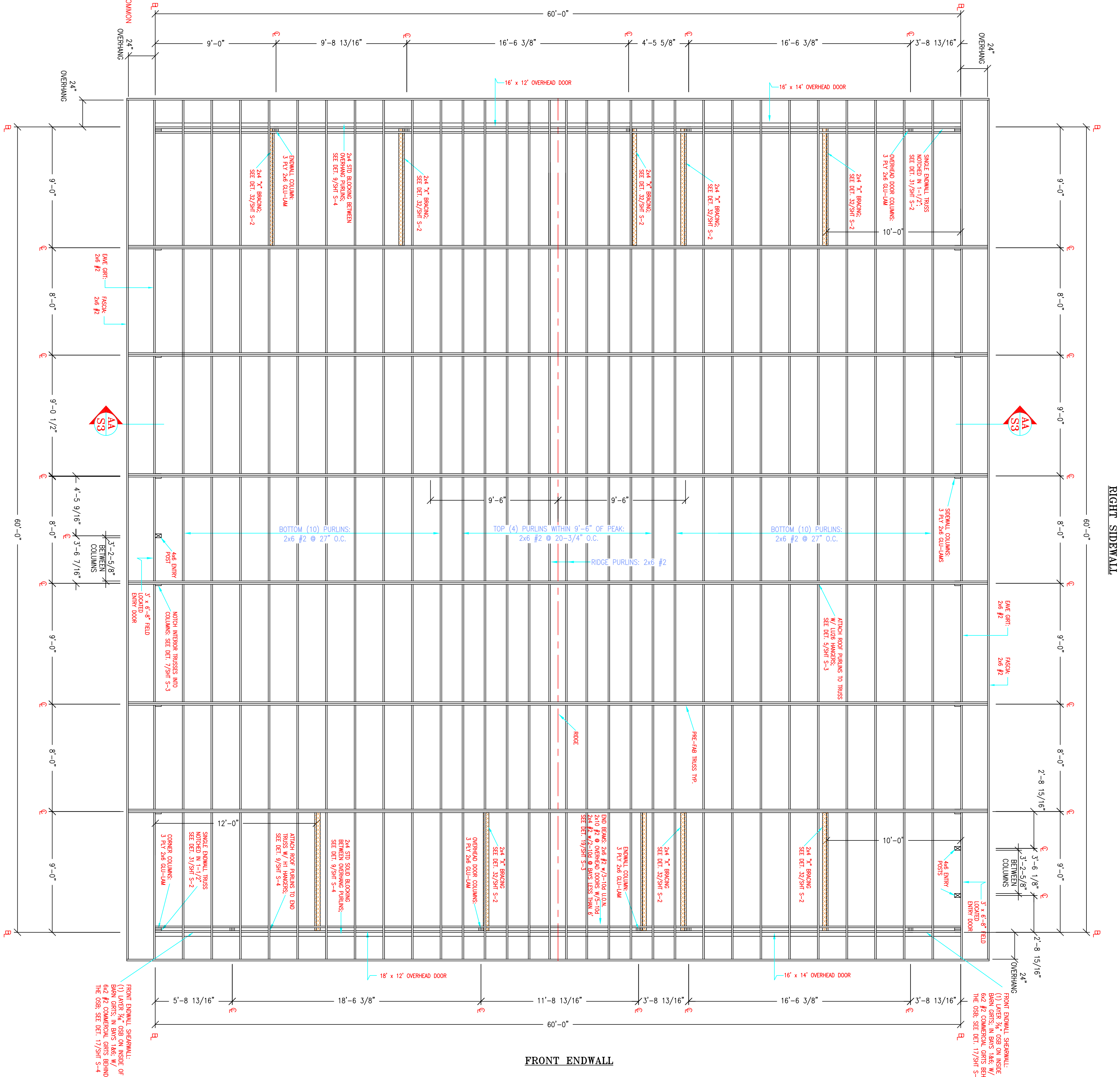
S-2 SCALE: 2"=1'-0"



### REAR ENDWALL



S-2) SCALE: 2"=1'-0"



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

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

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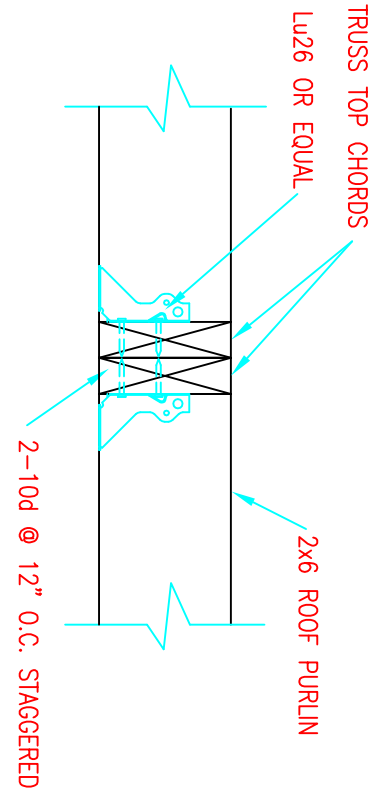
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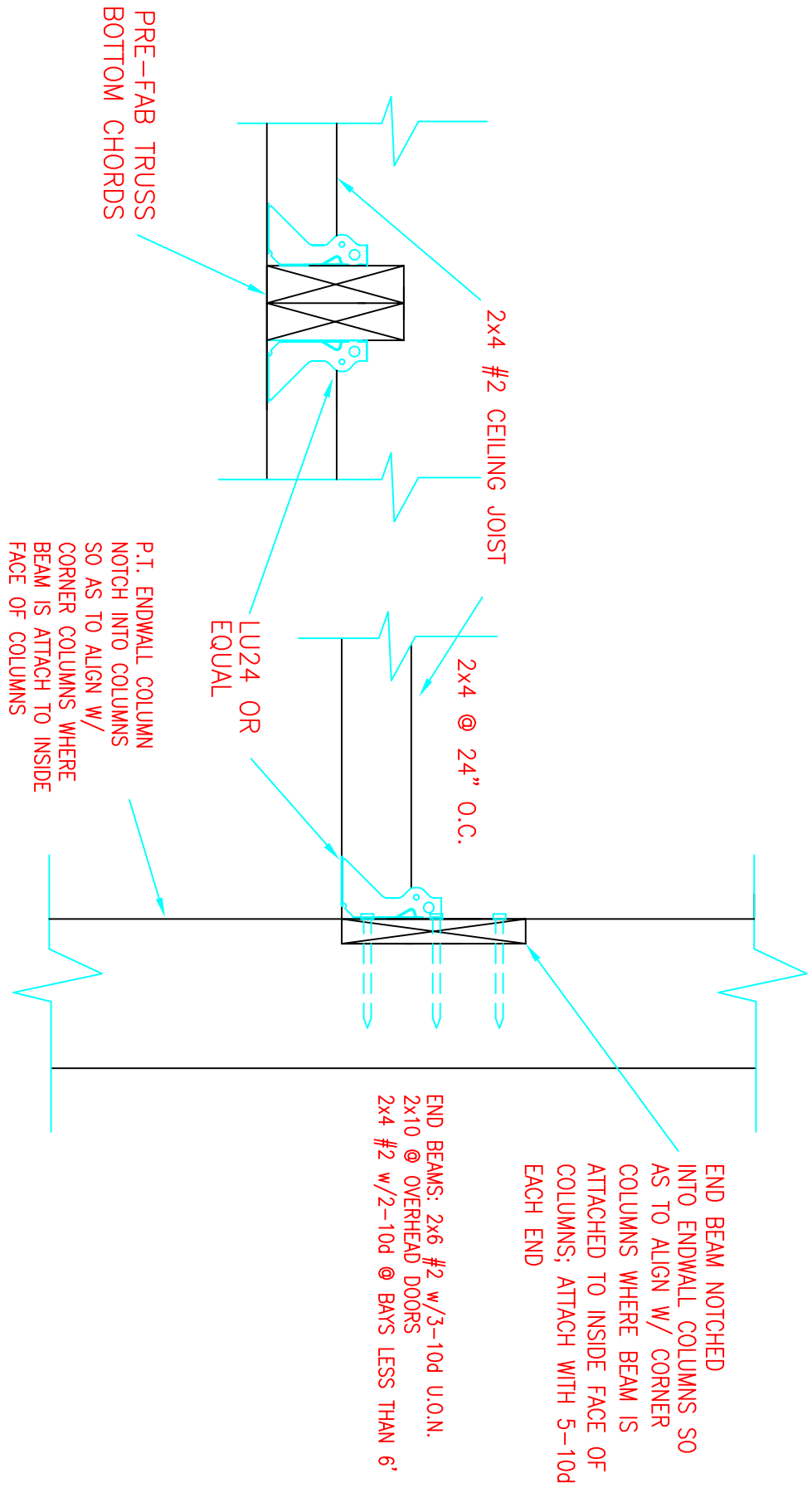
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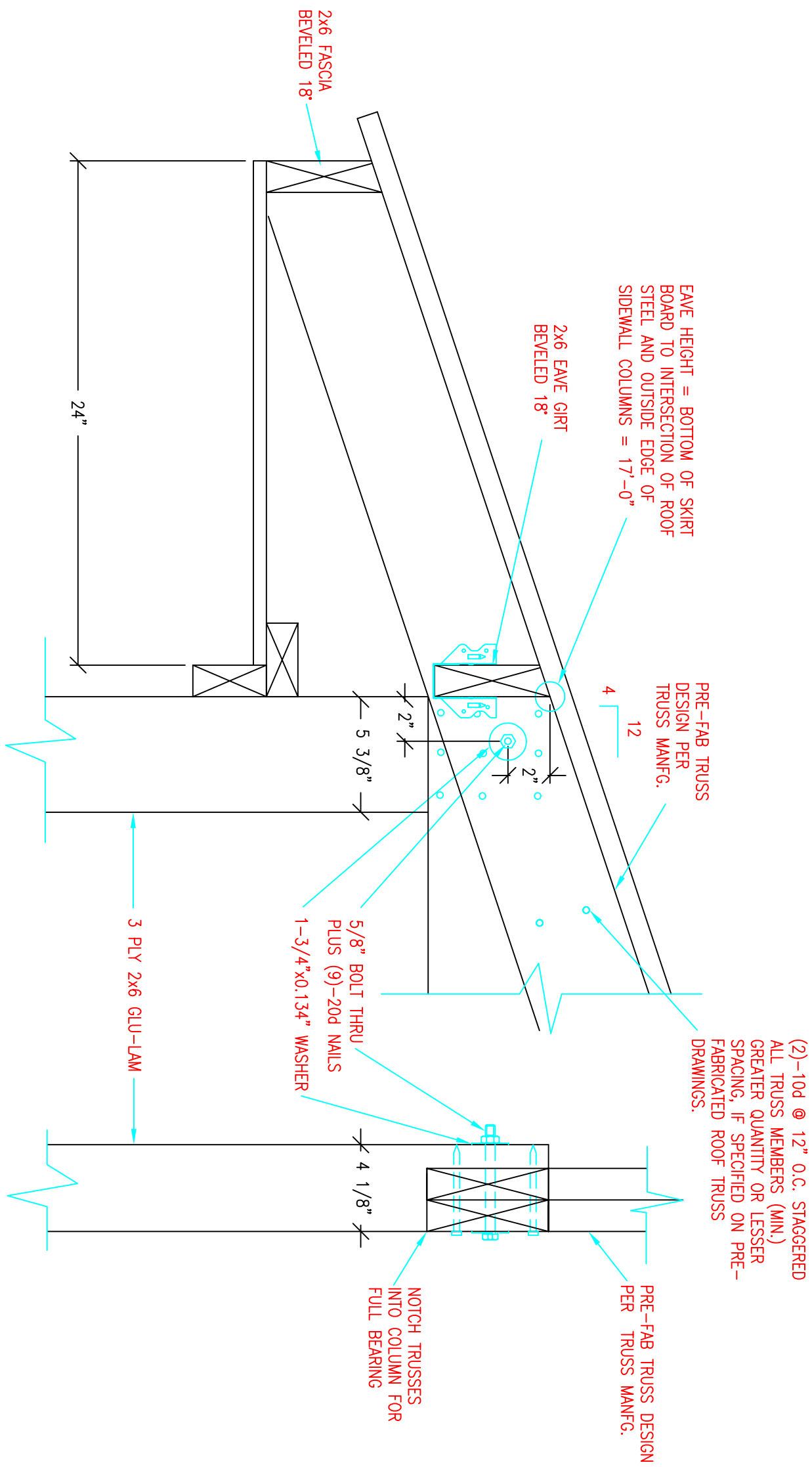
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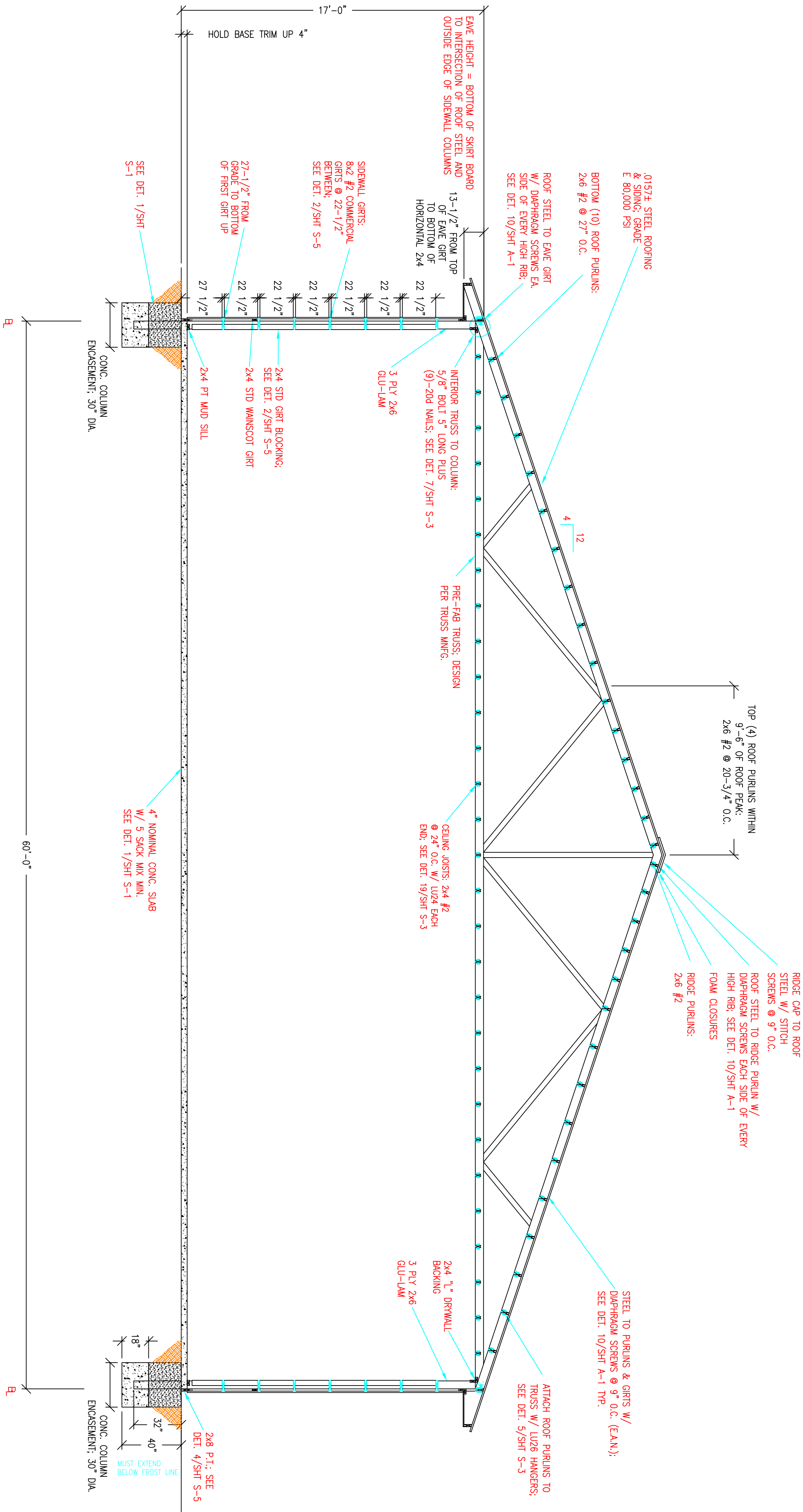
**5 ROOF PURLIN TO TRUSS**  
SCALE: 1-1/2"=1'-0"



**19 CEILING FRAMING**  
SCALE: 1-1/2"=1'-0"



**7 INTERIOR TRUSS TO COLUMN**  
SCALE: 2"=1'-0"

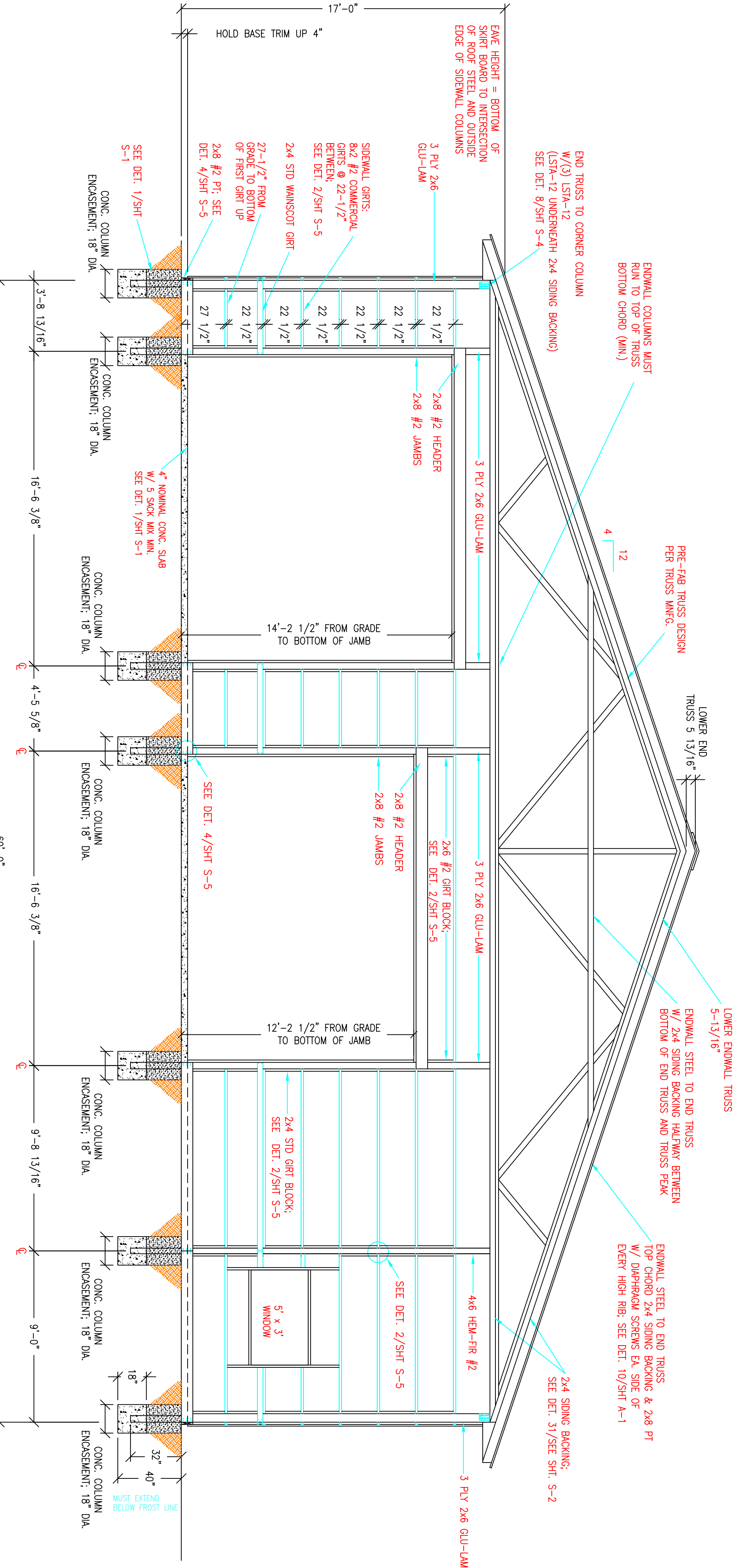
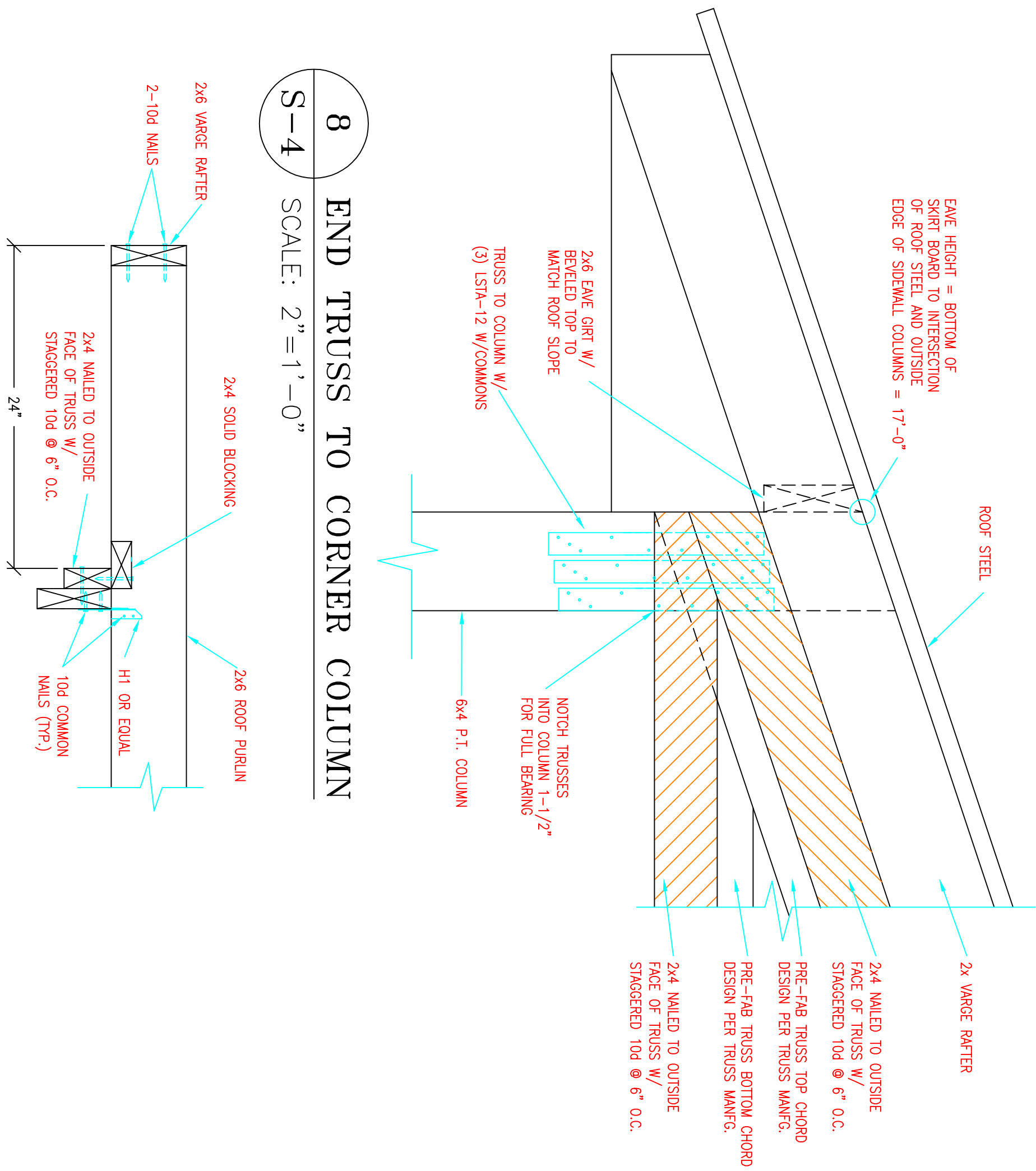


**AA BUILDING SECTION**  
1/4"=1'-0"

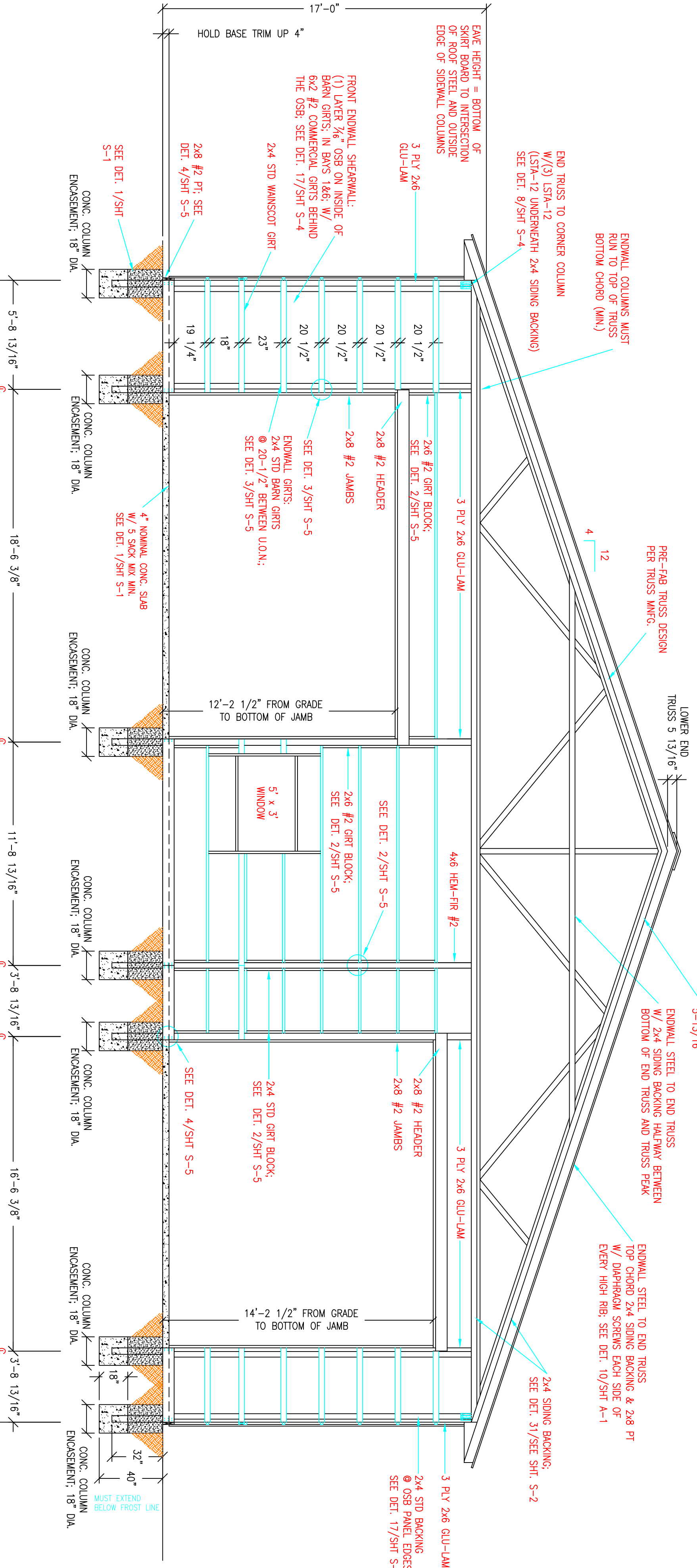
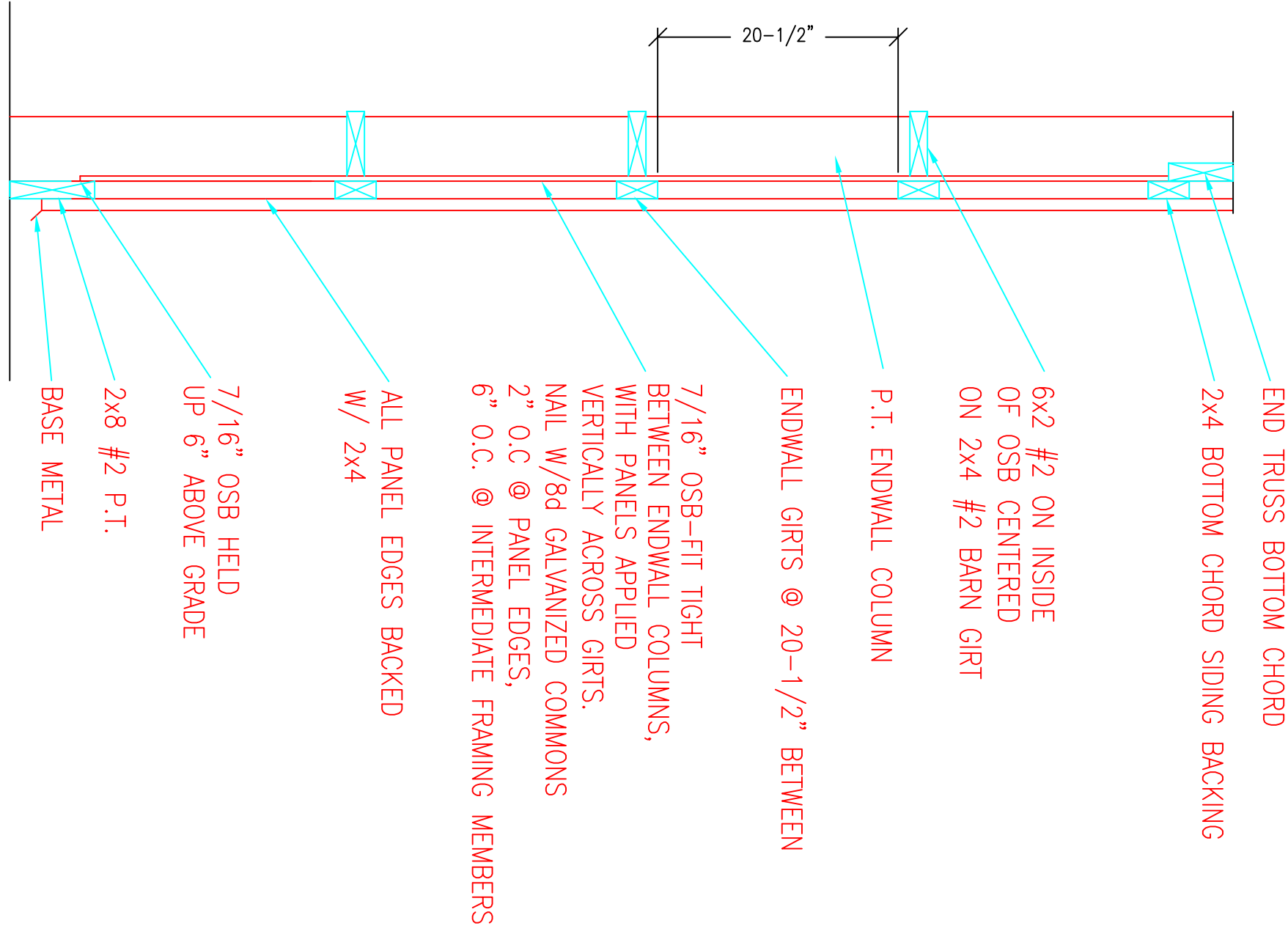
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9 ROOF PURLIN TO ENDWALL TRUSS  
SCALE: 1-1/2"=1'-0"



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## FRONT ENDWALL FRAMING

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

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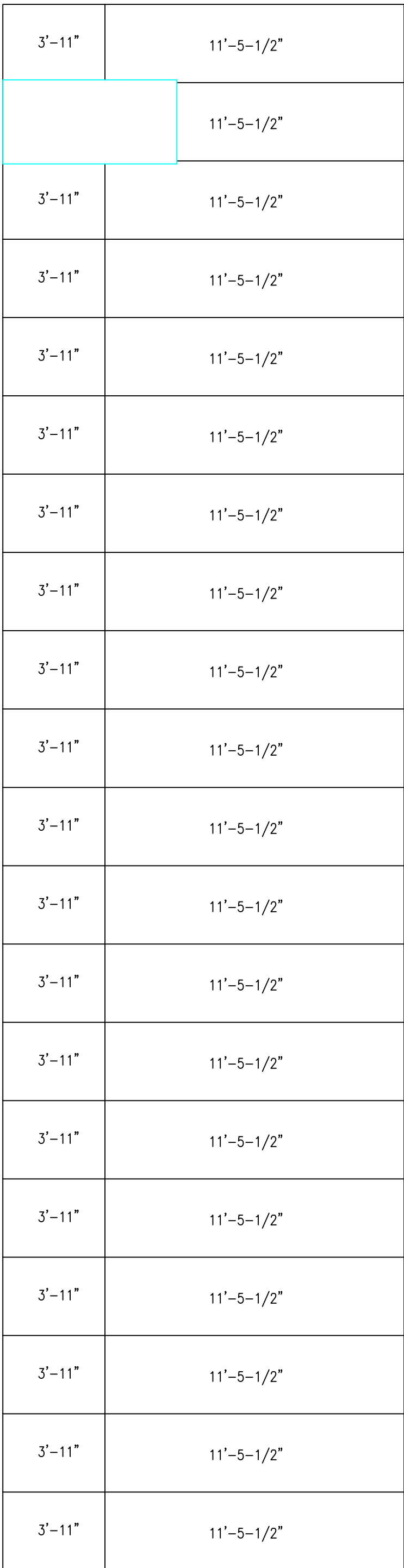
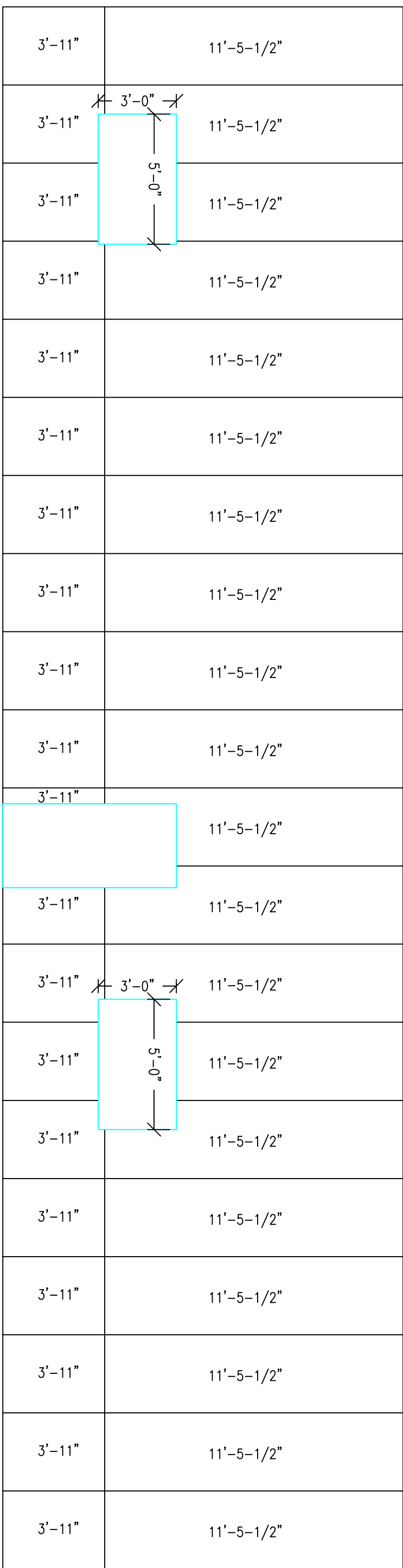
## LEFT SIDEWALL

# STEEL CUTTING-WALLS

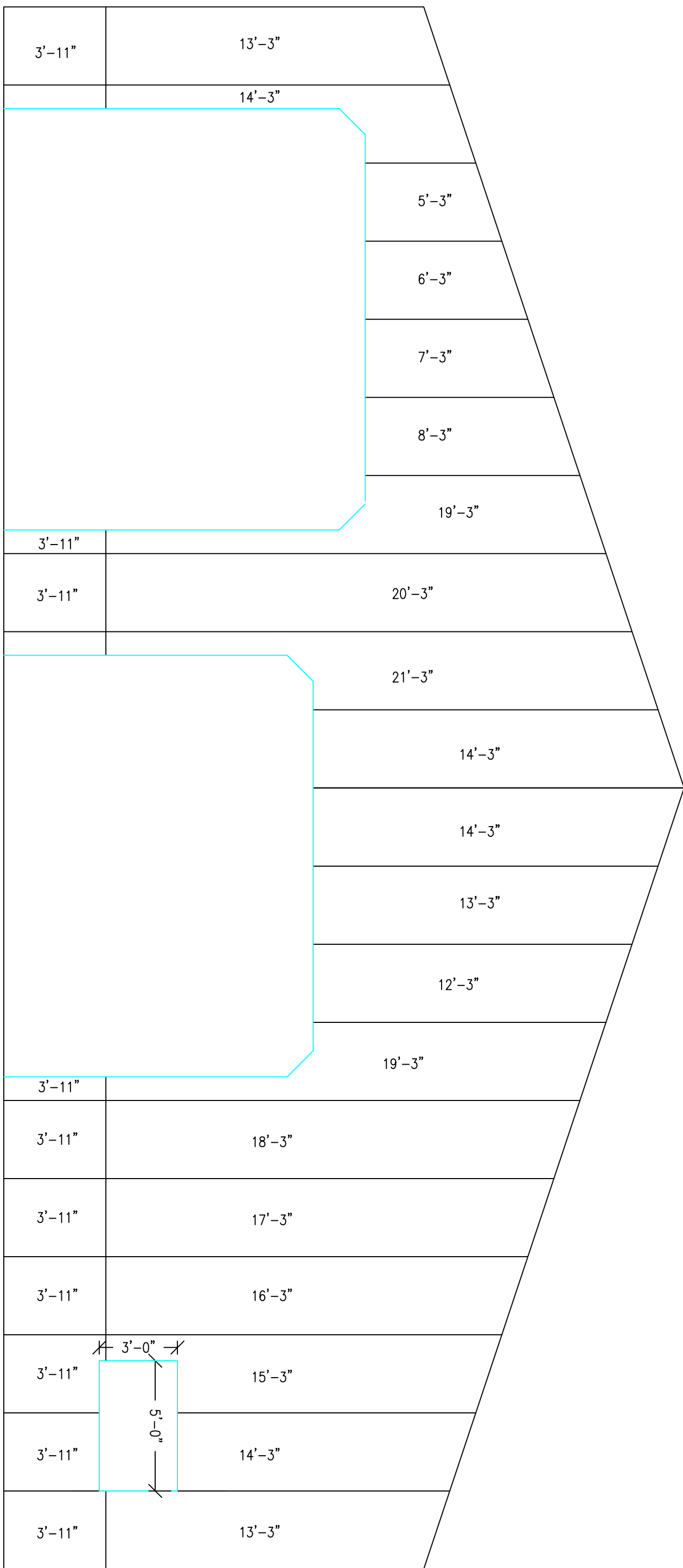
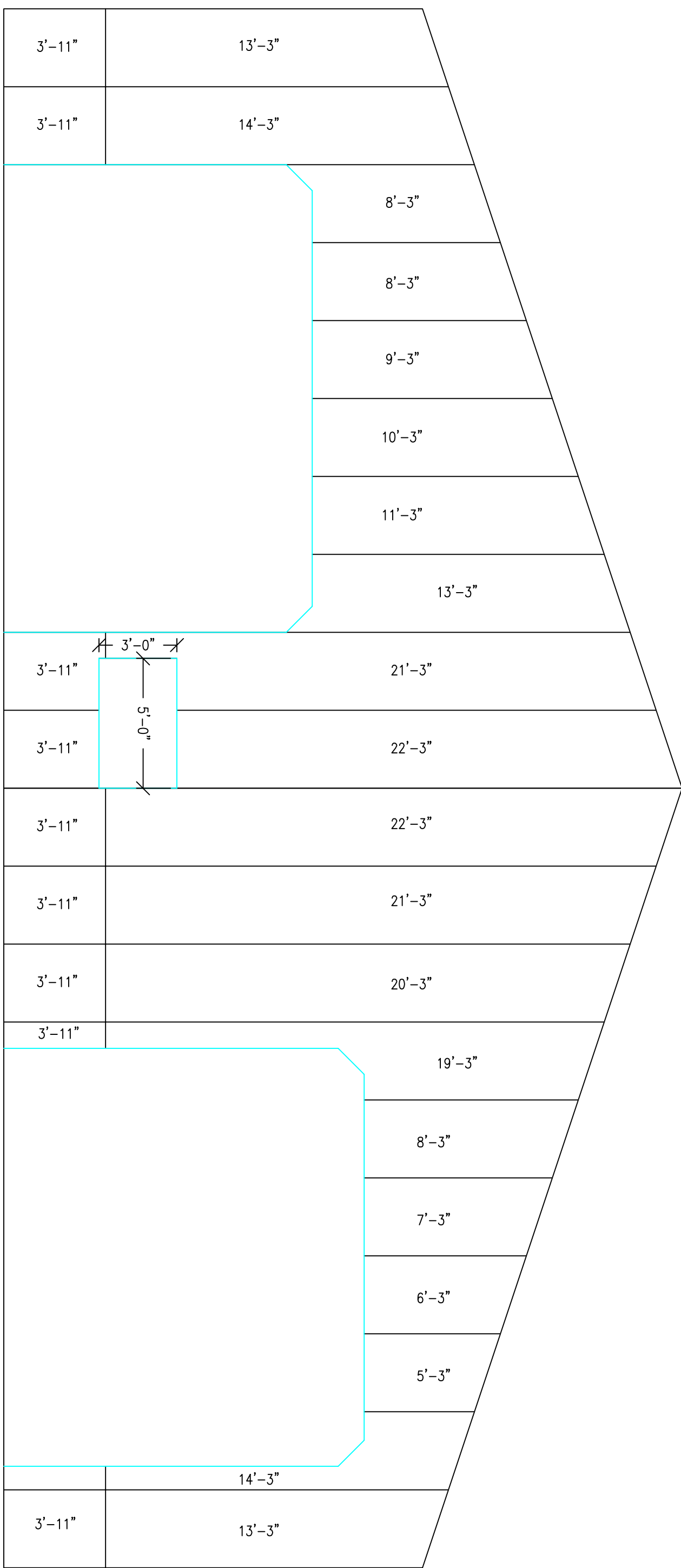
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RIGHT SIDEWALL

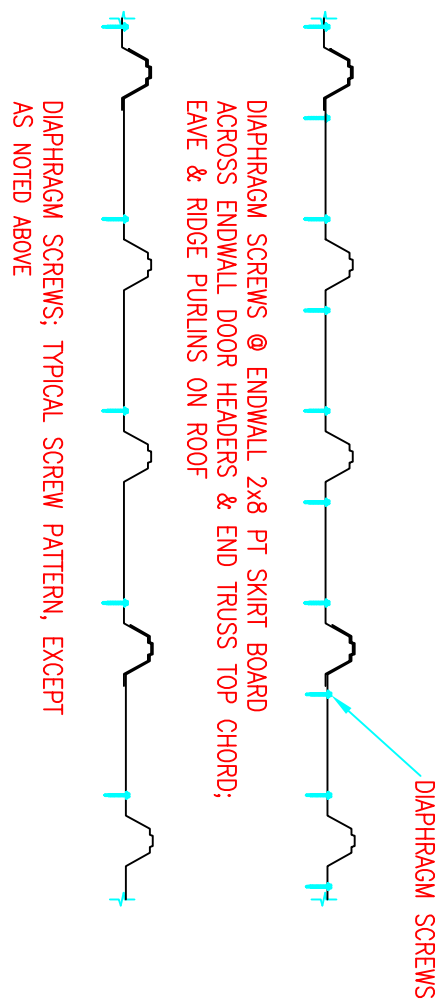
SCALE: 1/4"=1'-0"



## FRONT ENDWALL



## REAR ENDWALL



**SIZING/PLANTING REQUIREMENTS**

THE FOLLOWING ANNUAL ROOT DIAPHRAGM REQUIREMENTS ARE NEEDED:

- FRIED SEEDS: #10x-1/2" @ 9" O.C.
- ONE NEXT TO EACH HIGH RB-4 (PER PANEL)
- EAVE AND ONE EAVEN SCAPES: 1-1/2" DIAPHRAGM AT BOTH SIDES OF EACH MAJOR RB (8 PER PANEL)
- THE FOLLOWING ANNUAL WALL DIAPHRAGM REQUIREMENTS ARE NEEDED:
- EAVENAL STREET: 35 GAUGE, 36" W.C.
- FRIED SEEDS: #10x-1/2" @ 9" O.C.
- ONE NEXT TO EACH MAJOR RB-4 (PER PANEL)
- END TRUSS: 1/2" DIAPHRAGM @ BOTH SIDES OF EACH MAJOR RB-4 (8 PER PANEL)
- END BRACES AND DOOR HINGE SCAPES: 1-1/2" DIAPHRAGM @ BOTH SIDES OF EACH MAJOR RB (8 PER PANEL)
- SMART BOARD SCAPES: 1-1/2" DIAPHRAGM, 9" O.C. SIDEWALLS, NEXT TO EACH HIGH RB-4 (EAVENAL); BOTH SIDES OF EACH HIGH RB (EAVENAL) (GALE) EAVENAL (8 PER PANEL).

10 STEEL SHEETING SCREW PATTERNS  
A-1 N.T.S.

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USE CUT-OFF ON  
OPPOSITE SIDE

ROOF

# STEEL CUTTING-ROOF

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

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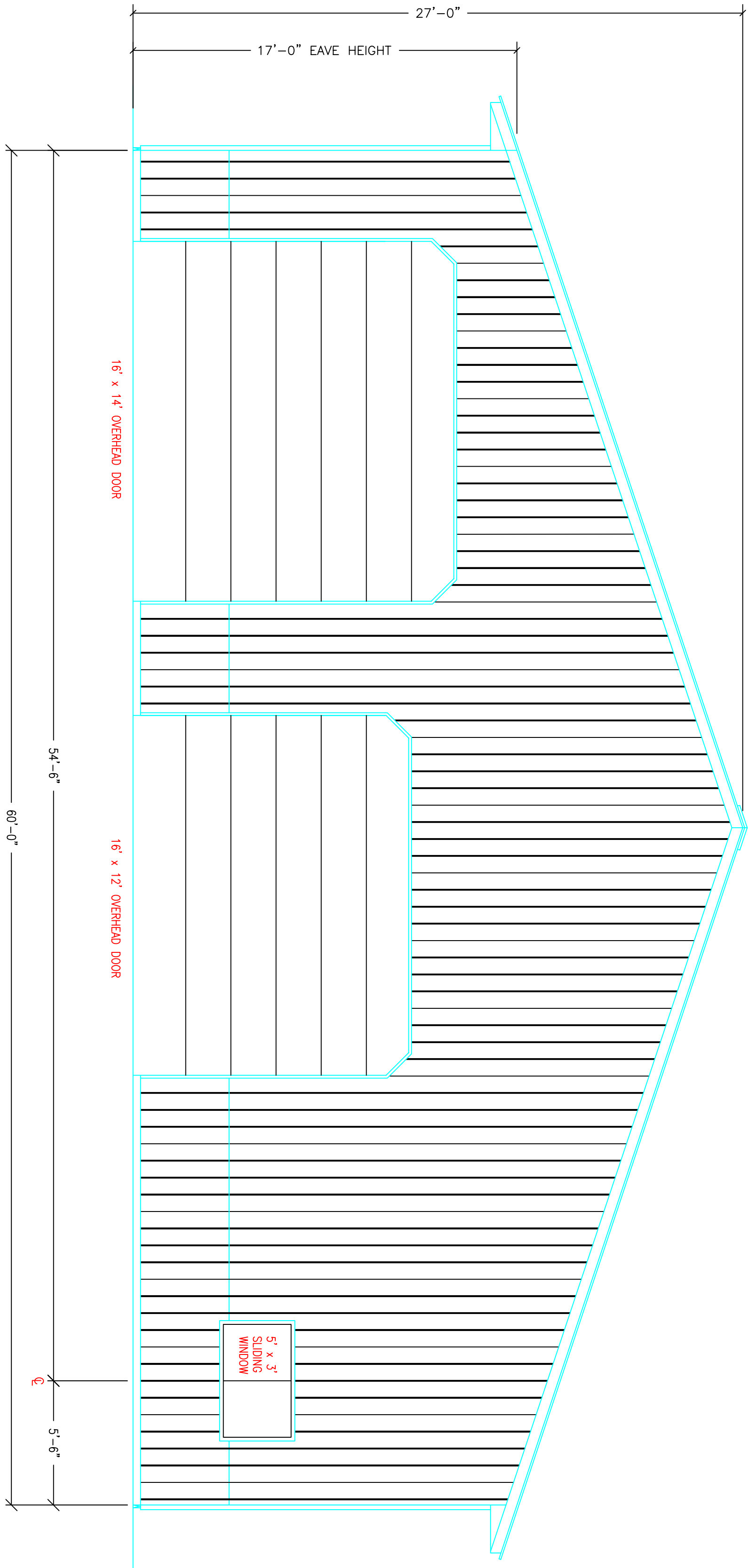
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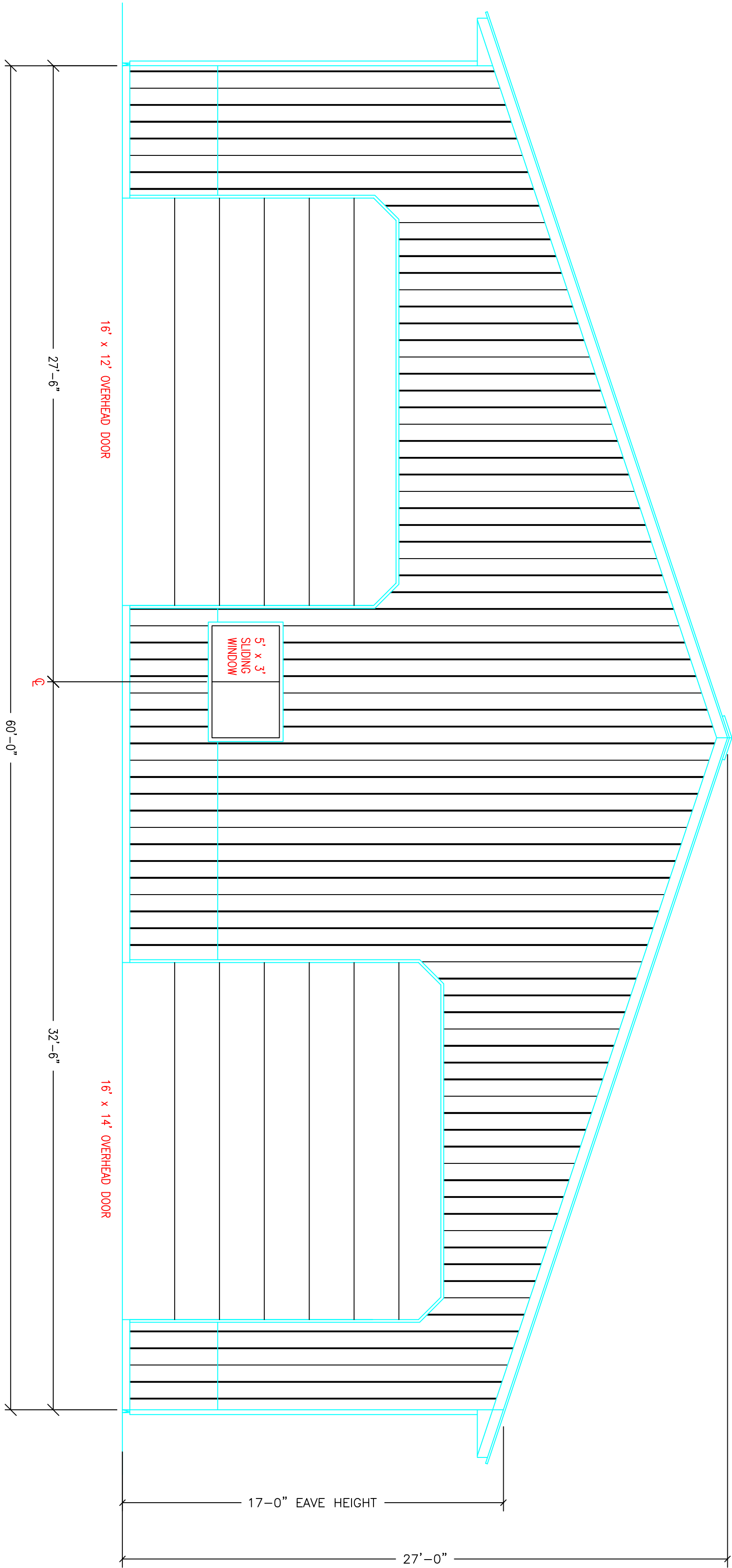
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# ENDWALL ELEVATIONS

## REAR ENDWALL



## FRONT ENDWALL



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A-3

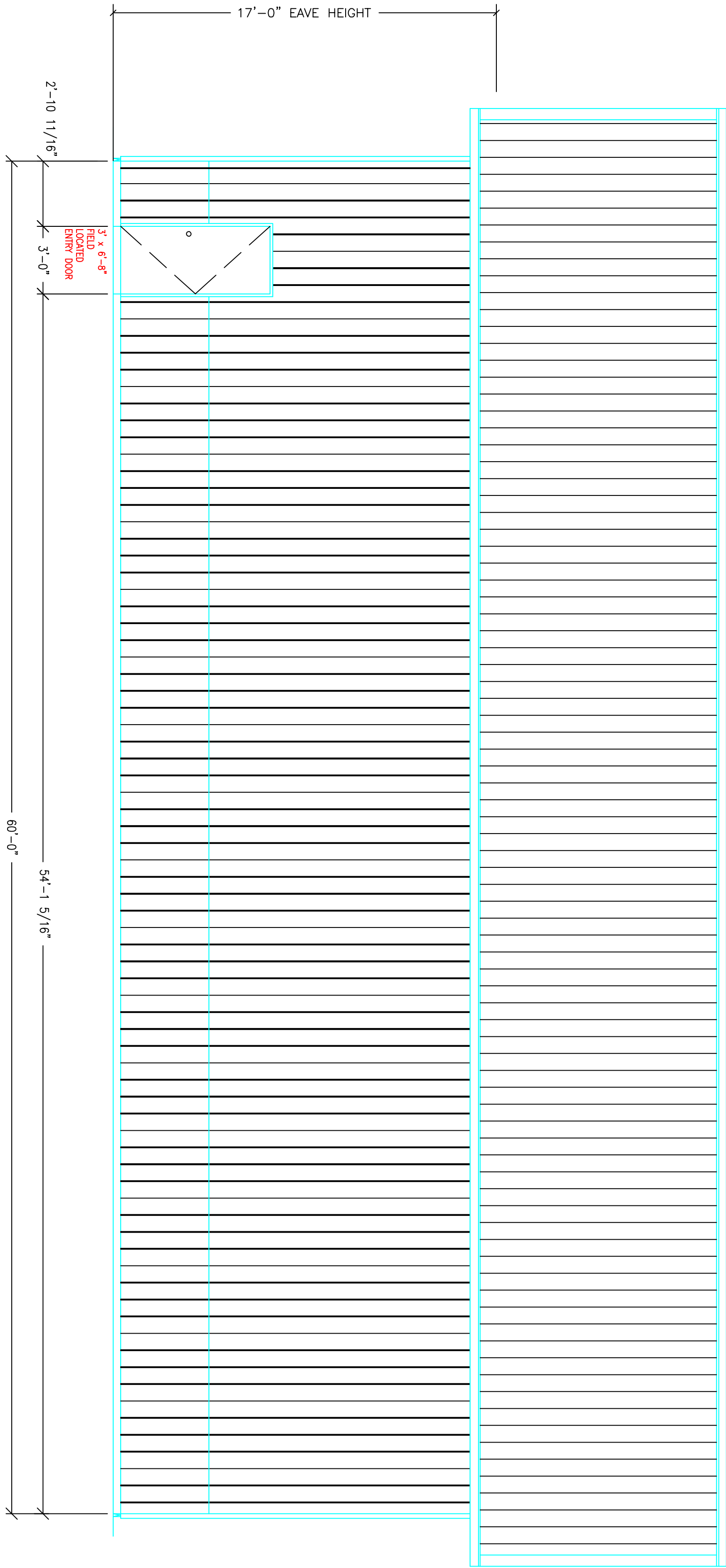
CLIENT: TORD MAMLY

JOB SITE ADDRESS: 18891 JONES RD., PECTON, CO 80831

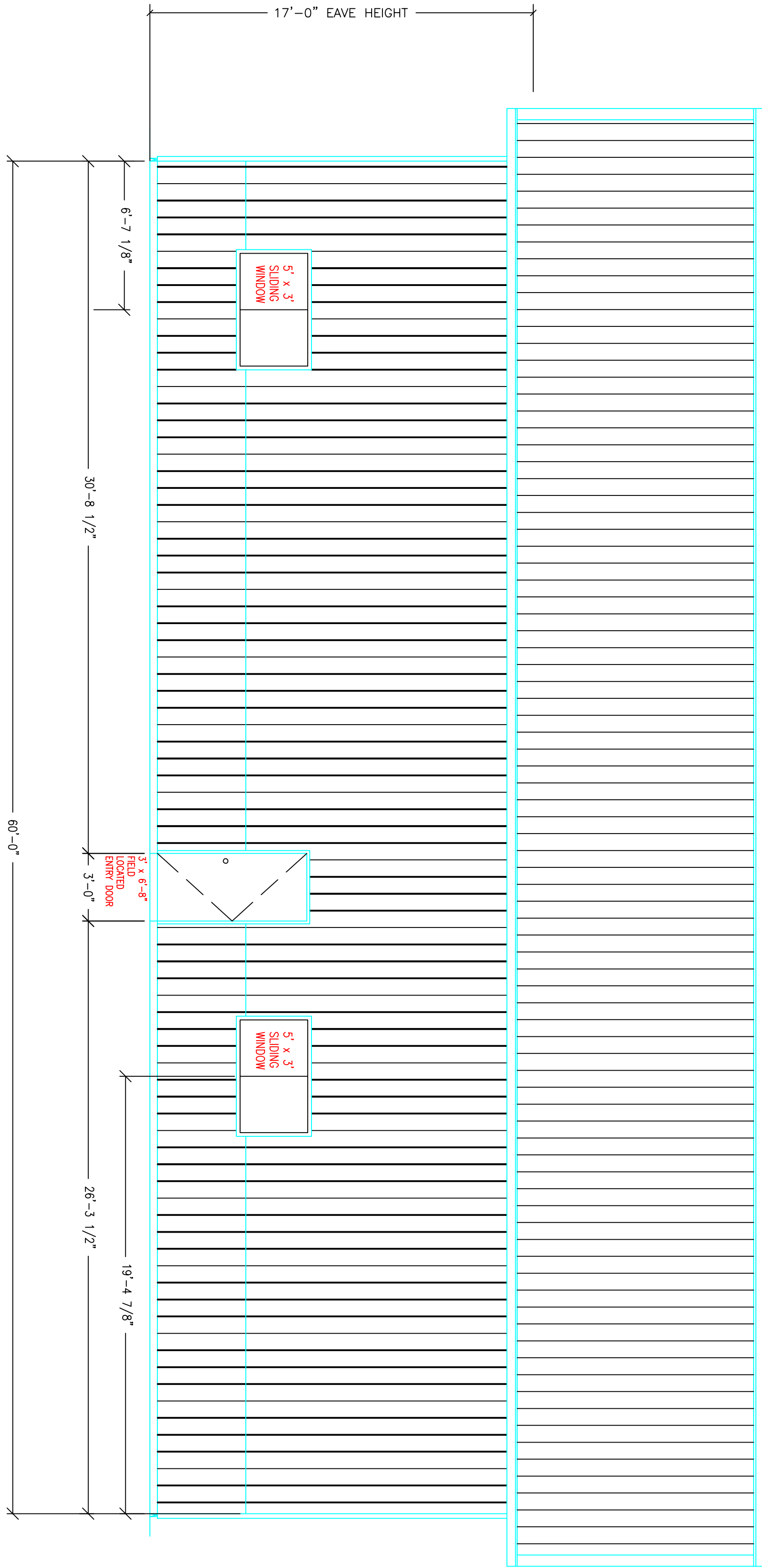
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SIDEWALL ELEVATIONS

RIGHT SIDEWALL



LEFT SIDEWALL



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|----------------------|
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| CHECKED BY<br>JAH    |
| DATE<br>09/22/15     |
| FILE NO.<br>#15-0904 |
| SHEET NO.            |

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