

GENERAL:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO INSERTS, ANCHORS, SLEEVES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ALL THE FIELD DIMENSIONS ANY UNUSUAL CONSTRUCTION CONDITION THAT JEOPARDIZE SAFETY OF LABOR AND/OR PUBLIC. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY BEFORE PROGRESS, IN CASE OF AT THE TIME AND/OR IN FUTURE OR IN CASE OF THE ISCREPANCIES IN THE PROJECT

ABBREVIATIONS:

- A.D. - ARCHITECTURAL DRAWINGS
- ADD'L - ADDITIONAL
- ALT. - ALTERNATE
- BM - BEAM
- B.O. - BOTTOM OF
- BLD'G - BUILDING
- BLK'G - BLOCKING
- BTWN - BETWEEN
- CL. OR CLR. - CLEAR
- CLG. - CEILING
- COL. - COLUMN
- CONC. - CONCRETE
- CONN. - CONNECTION
- CONT. - CONTINUOUS
- CRC - COLD ROLLED CHANNEL
- C.W. - CURTAINWALL
- DBL. - DOUBLE
- DEFL. - DEFLECTION
- DIAG. - DIAGONAL
- DIM - DIMENSION
- DIV ANG OR DA - DIVERTER ANGLE
- DWG - DRAWING
- EA. - EACH
- E.D. - EDGE DISTANCE
- EL. OR ELEV. - ELEVATION
- (E) - EXISTING
- E.O.D. - EDGE OF DECK
- E.O.R. - ENGINEER OF RECORD
- E.O.S. - EDGE OF SLAB
- EQ. - EQUAL
- F.O. - FACE OF
- FLG - FLANGE
- FLR. - FLOOR
- F.S. - FAR SIDE
- GA. - GAUGE
- G.C. - GENERAL CONTRACTOR
- HDR. - HEADER
- HGT. - HEIGHT
- HORIZ OR HOR. - HORIZONTAL
- HSS - HOLLOW STRUCTURAL SECTION
- I.L.O. - IN LIEU OF
- INV. - INVERTED
- JT. - JOINT
- LG. - LONG
- LGS - LIGHT GAUGE STEEL
- LOC'N - LOCATION
- LLH - LONG LEG HORIZONTAL
- LLV - LONG LEG VERTICAL
- L.V.F. - LOW VELOCITY FASTENER (SEE GENERAL NOTES FOR SIZE & TYPE).
- LVL. - LEVEL
- LWC - LIGHT WEIGHT CONCRETE
- MAX. - MAXIMUM
- MFG - MANUFACTURER
- MIN. - MINIMUM
- (N) - NEW
- N.B.D. - NOT BY DEVCO
- N.T.S. - NOT TO SCALE
- N/A - NOT APPLICABLE
- N.S. - NEAR SIDE
- NWC - NORMAL WEIGHT CONCRETE
- O.C. - ON CENTER
- O.H. - OPPOSITE HAND
- O.H.D. - OVERHEAD DOOR
- OP'NG - OPENING
- OWJ - OPEN WEB JOIST
- PC. - PIECE
- PERP. - PERPENDICULAR
- PT - POINT
- REINF. - REINFORCING
- REF. - REFERENCE
- REQ'D - REQUIRED
- R.F.I. - REQUEST FOR INFORMATION
- R.O. - ROUGH OPENING
- S.D. - STRUCTURAL DRAWINGS
- SECT. - SECTION
- SIM. - SIMILAR
- SPCL BRK - SPECIAL BRAKE
- SQ. - SQUARE
- STL. - STEEL
- SW - SHEARWALL
- T&B - TOP & BOTTOM
- T.O. - TOP OF
- TYP. - TYPICAL
- U.N.O. - UNLESS NOTED OTHERWISE
- VERT. - VERTICAL
- W.B. - WEDGE BOLT
- WDW. - WINDOW
- WF - WIDE FLANGE
- W. - WITH
- WIN - WITHIN
- W/O - WITHOUT
- W.P. - WORK POINT

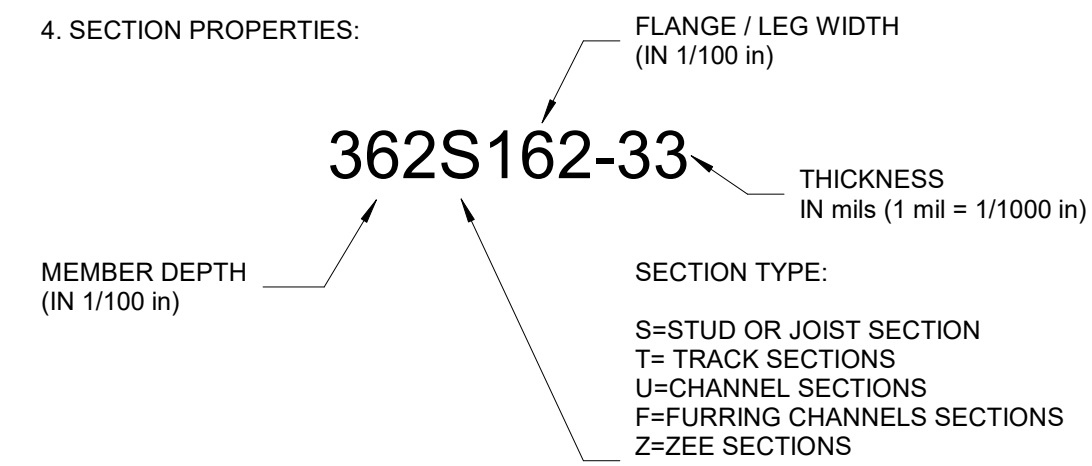
COLD-FORMED STEEL:

1. ALL COLD FORMED STEEL STUDS, JOIST, TRACK & MISC. SHAPES MILL CERTIFIED STEEL TO MEET:
 A. ASTM A1003 ST GRADE 50, TYPE H 54-97 mil GALV. STEEL
 B. ASTM A1003 ST GRADE 33, TYPE H 18-43 mil GALV. STEEL

2. ALL STEEL STUDS, JOIST & TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSEMENT, AT A MAXIMUM OF 48" O.C., INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, ICC EVALUATION SERVICE REPORT NUMBER, THE MATERIAL BASE METAL THICKNESS (UNCOATED) IN .001 in. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 ksi.

3. MILL CERTIFICATES FROM THE COIL PRODUCER SHALL BE MADE AVAILABLE IF REQUESTED. MILL CERTIFICATE TO INCLUDE AS A MINIMUM THE CHEMICAL COMPOSITION, YIELD STRENGTH, TENSILE STRENGTH, ELONGATION, AND COATING THICKNESS.

4. SECTION PROPERTIES:



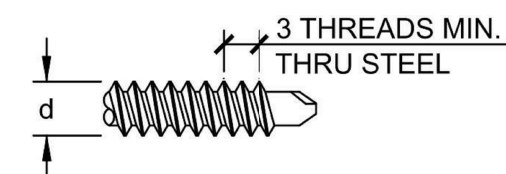
**THIS PROJECT WILL BE BUILD USING FRAMECAD ® MACHINERY FOR AUTOMATIVE CFS CHANNELS PRODUCTION, THUS, T-SECTION IS REPLACED BY S-SECTION FOR ALL TRACKS, STUDS BLOCKING, TRUSS CHORDS WHERE TYPICALLY T-SECTION IS IN USE.

MINIMUM DELIVERABLE THICKNESS (mils)	GAUGE	DESIGN THICKNESS (INCHES)
33	20	0.0346
43	18	0.0451
54	16	0.0566
68	14	0.0713
97	12	0.1017
118	10	0.1242

5. STUDS AND TRACKS THAT COMPRISE A HEADER, STRONGBACKS, AND SILL SHALL NOT BE SPLICED. CURVED HEADERS, STRONGBACKS, AND SPANDREL TRACKS SHALL BE STRETCH FORMED, CLIPPING OR CRIMPING OF FLANGES OR WEBS IS NOT PERMITTED. IF OTHER PROPRIETARY CURVED PRODUCTS ARE PROPOSED THEY SHALL BE SUBMITTED TO DEVCO, WITH APPROPRIATE CALCULATIONS AND/OR TESTING, FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

6. EXTERIOR AND INTERIOR FRAMING, SHEATHING AND FINISH MATERIAL SHALL NOT BRIDGE DEFLECTION JOINTS (COMPENSATION CHANNEL), SEISMIC JOINTS, EXPANSION JOINTS, OR ANY LOCATION WHERE DIFFERENTIAL MOVEMENT OF THE STRUCTURE IS EXPECTED EXCEPT AS SPECIFICALLY DETAILED WITHIN. SLIP JOINTS SHALL BE INSTALLED BETWEEN FRAMING SUPPORTED BY DIFFERENT FLOORS/ROOF(S), FOR EXAMPLE, A VERTICAL SLIP JOINT SHALL BE INSTALLED BETWEEN A SOFFIT HANGER AND A WALL.

7. SCREW VALUES USED IN DESIGN MEET 2007 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100-07/S2-10) INCLUDING THE 2010 SUPPLEMENT SECTION E4 FOR SCREW CONNECTIONS. SCREWS TO CONFORM TO SAE J78.



8. WELDING:

- A. WELDING TO BE PER AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
- B. WELDS TO BE INSPECTED PER APPLICABLE BUILDING CODE.
- C. MINIMUM E60XX ELECTRODES.
- D. USE LOW HYDROGEN ELECTRODES FOR WELDING SHEET STEEL TO STRUCTURAL STEEL GREATER THAN 1/4" IN THICKNESS.
- E. ELECTRODES MUST BE ACCEPTABLE (PER THE ROD MANUFACTURER) FOR USE IN SEISMIC APPLICATIONS.
- F. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC RICH PRIMER.
- G. FOR MATERIALS LESS THAN OR EQUAL TO 0.1242" THICK, DRAWINGS SHOW NOMINAL WELD SIZE. FOR SUCH MATERIALS THE EFFECTIVE THROAT OF WELDS SHALL NOT BE LESS THAN THE THICKNESS OF THE THINNEST CONNECTED PART.

DESIGN PARAMETERS:

GENERAL PARAMETERS:

BUILDING CODE: 2019 CALIFORNIA RESIDENTIAL CODE

LOADS:

	DEAD LOAD (DL) PSF	LIVE LOAD (LL) PSF
FLOOR:	13.05	125
EXTERIOR WALL:	16.62	
INTERIOR WALL:	12.25	
CEILING:	3.5	
ROOF:	8.85	20

WIND DESIGN BASIS:

BASIC WIND SPEED.....	94 MPH
IMPORTANCE FACTOR I.....	1.0
OCCUPANCY CATEGORY.....	II
WIND EXPOSURE.....	B

SEISMIC DESIGN BASIS:

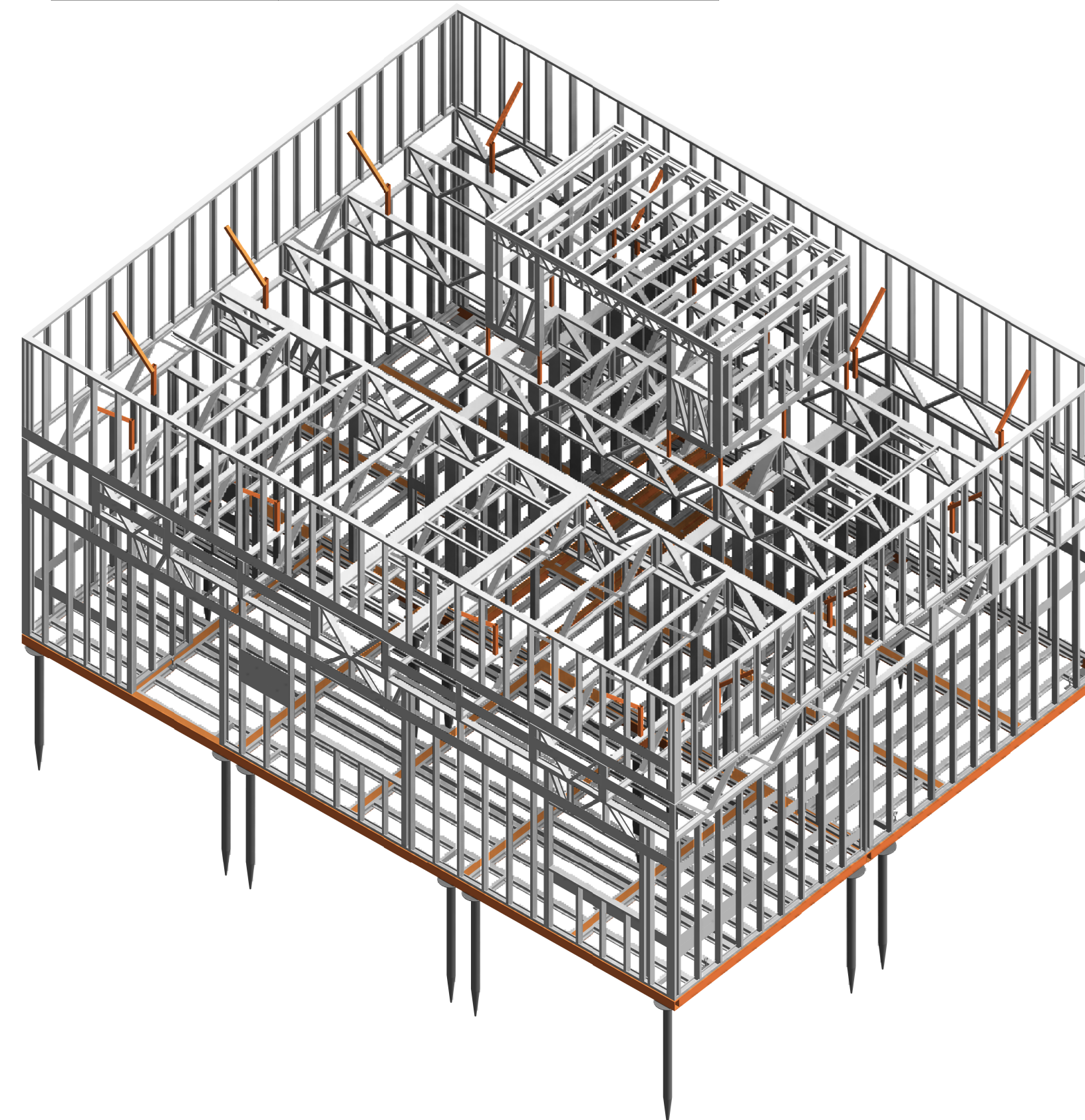
IMPORTANCE FACTOR I.....	1.0
SITE CLASS.....	D
Ss.....	0.525
S1.....	0.242
SDs.....	0.483
SEISMIC DESIGN CATEGORY.....	D
BASIC SEISMIC FORCE-RESISTING SYSTEM.....	A-16 (ASCE 7-16 TABLE 12.2-1)
FIRST FLOOR.....	
R.....	6.5

SOIL VALUES:

BEARING PRESSURE: 1500 PSF (ASSUMPTION, NO GEOTECH REPORT PROVIDED)

SHEET LIST

SHEET NUMBER	SHEET NAME
S0	COVER SHEET
S1	3D VIEWS
S2	FOUNDATION PLAN
S3	STRUCTURAL PLANS
S3.1	AIR COMPRESSOR PLANS
S4	STRUCTURAL SECTIONS
S5	STRUCTURAL DETAILS
S6	ROOF TRUSSES
S7	FLOOR & ROOF SHEATHING



SHEET NUMBER:

S0

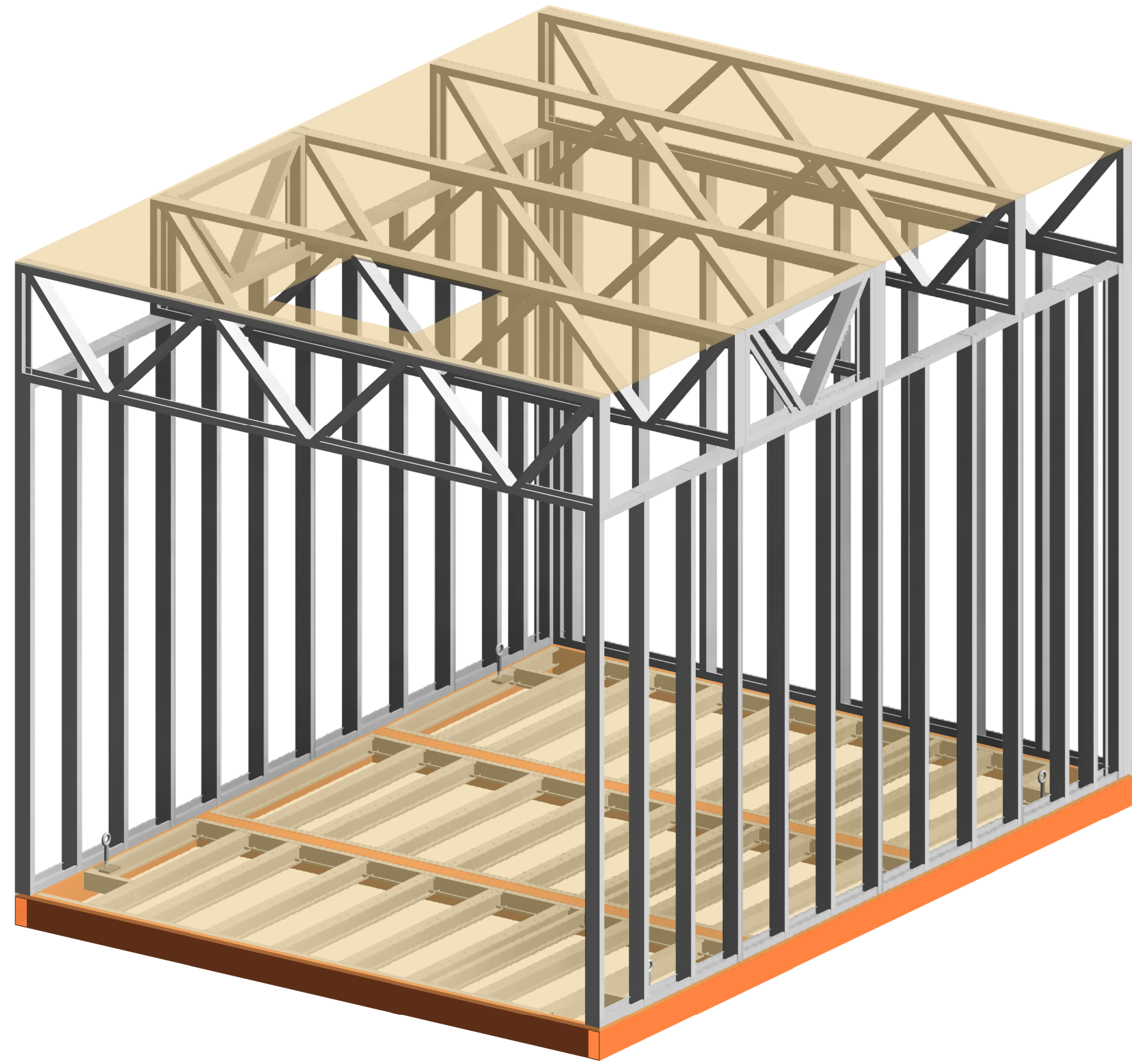
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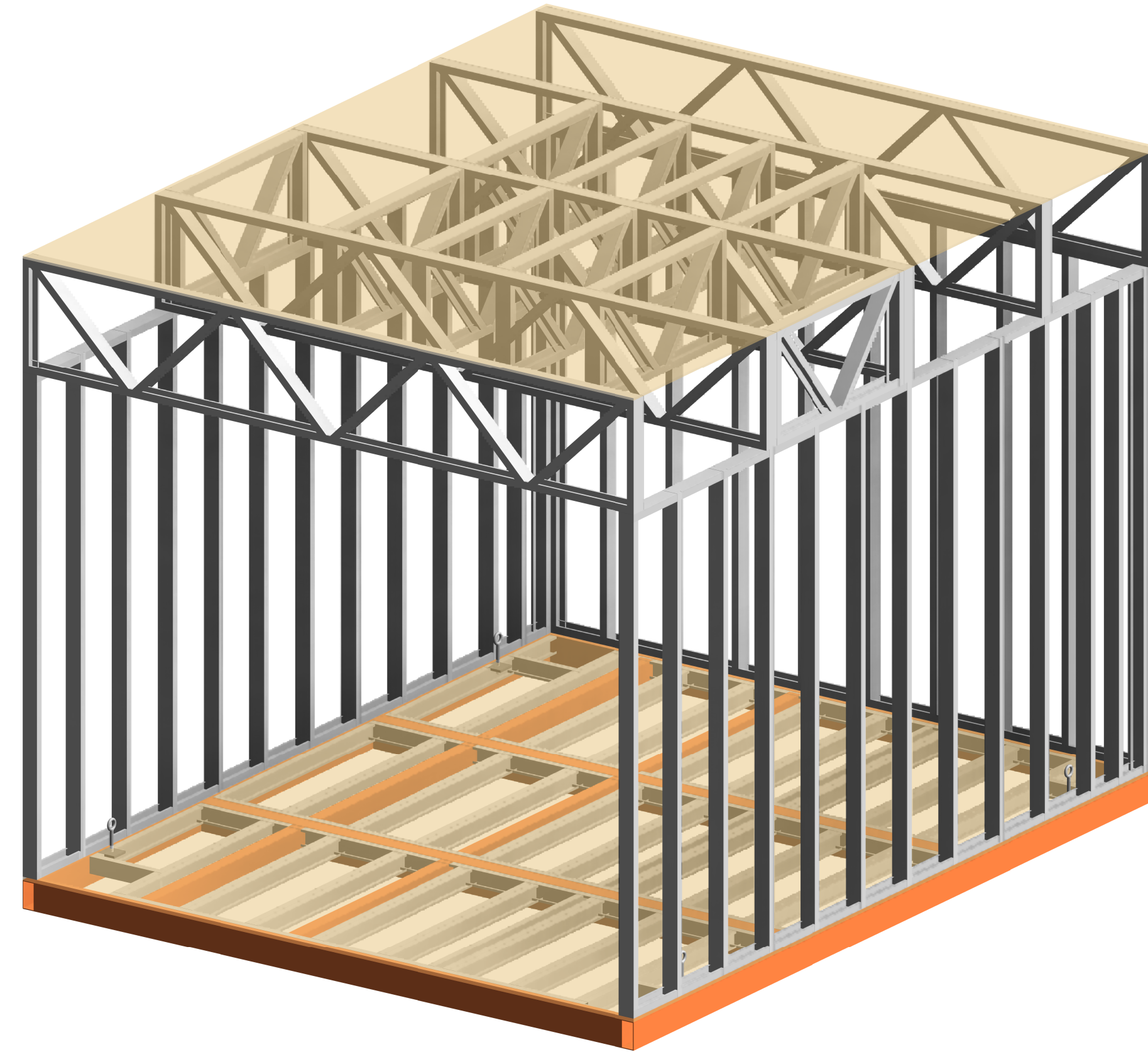
COVER SHEET

CHECKED BY:
JR

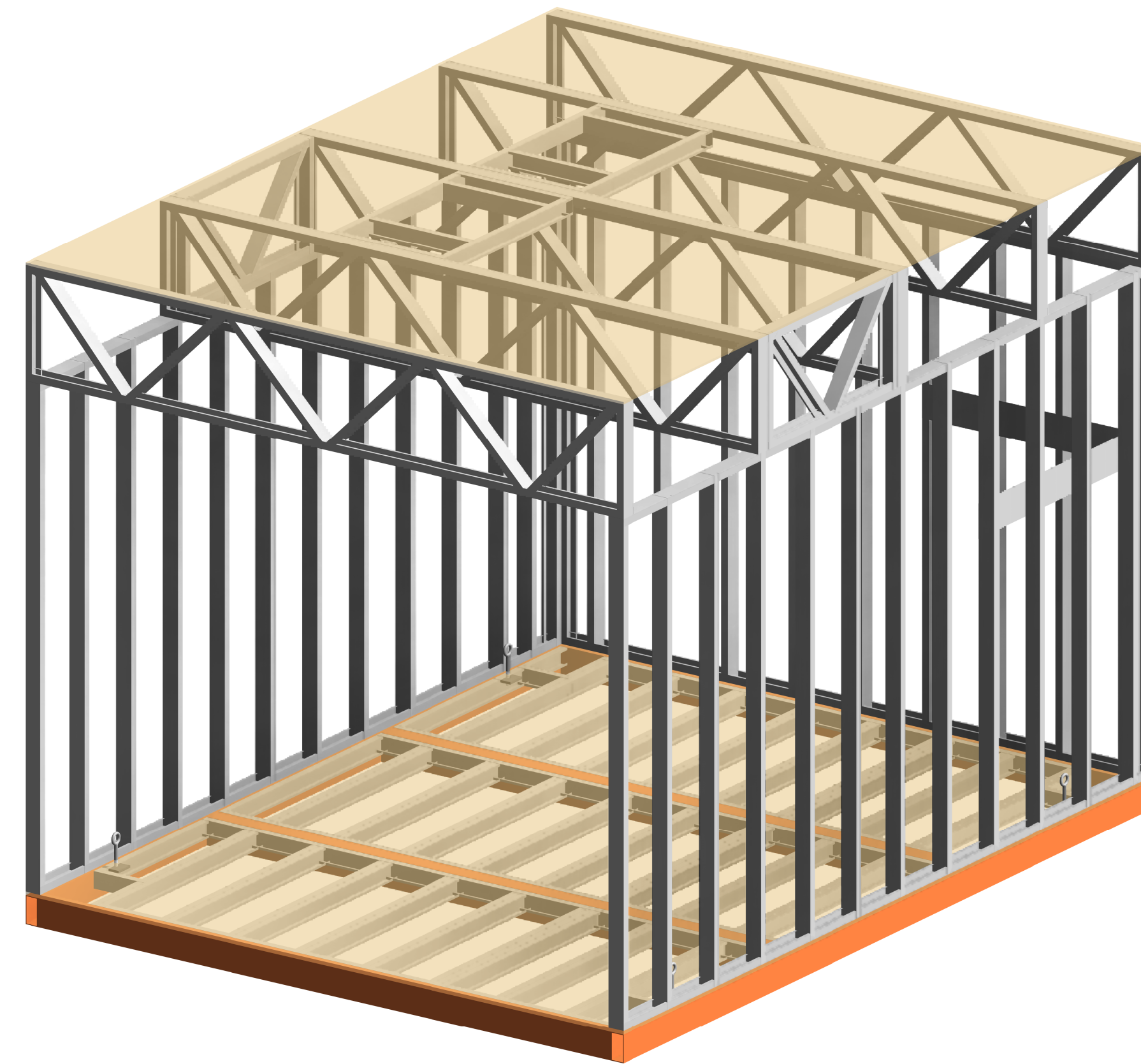
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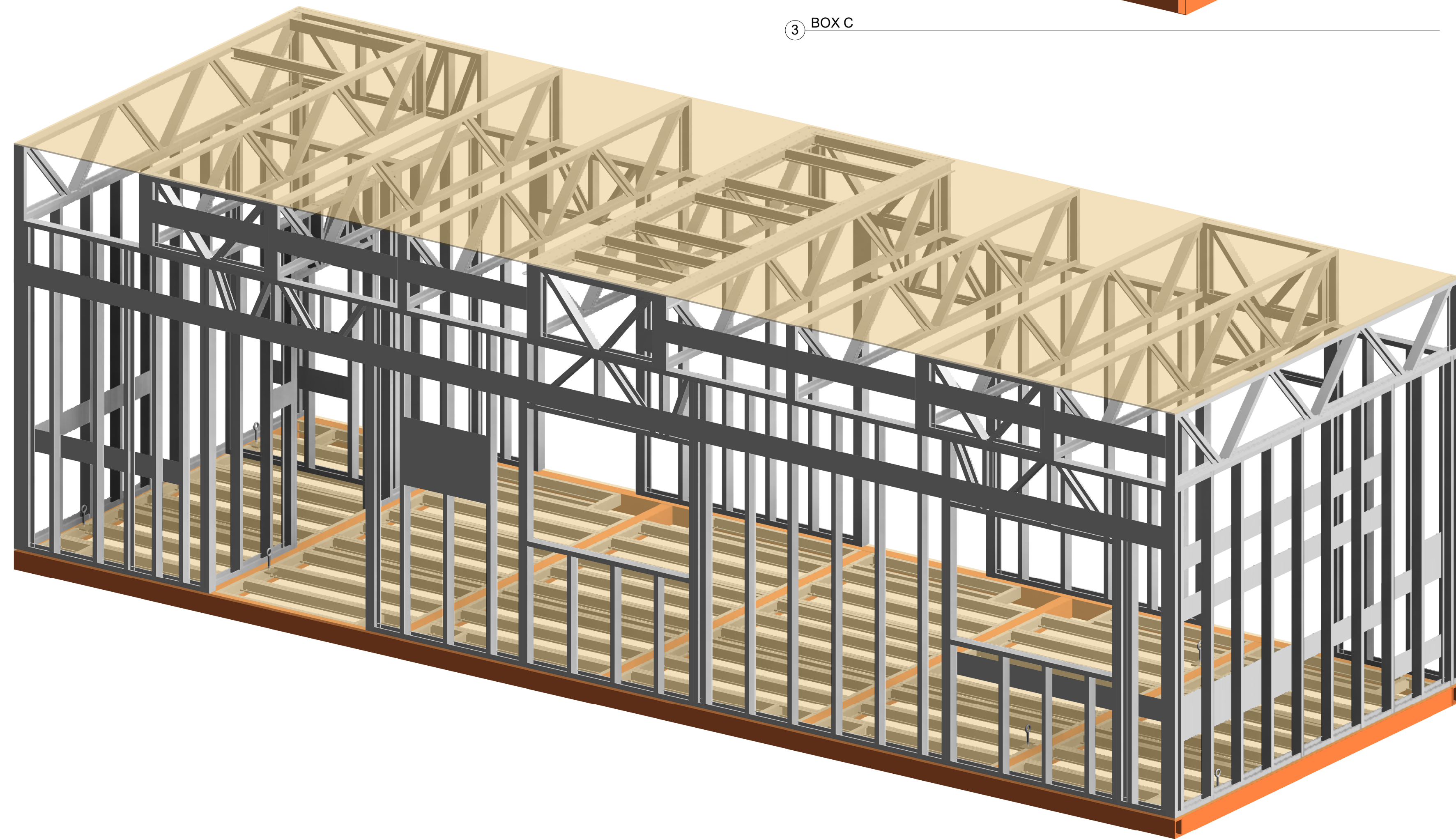
2 BOX B



3 BOX C



4 BOX D



1 BOX A

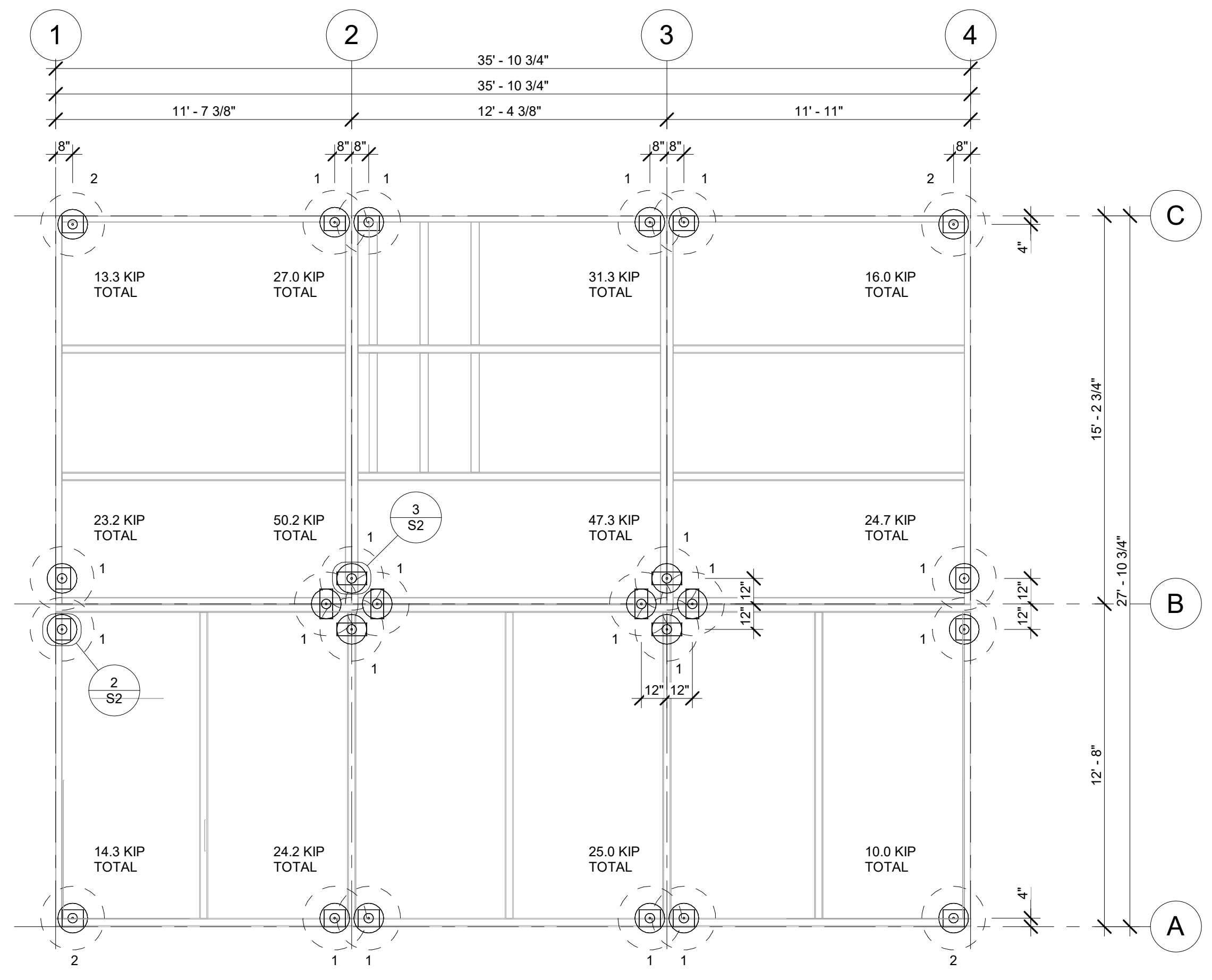
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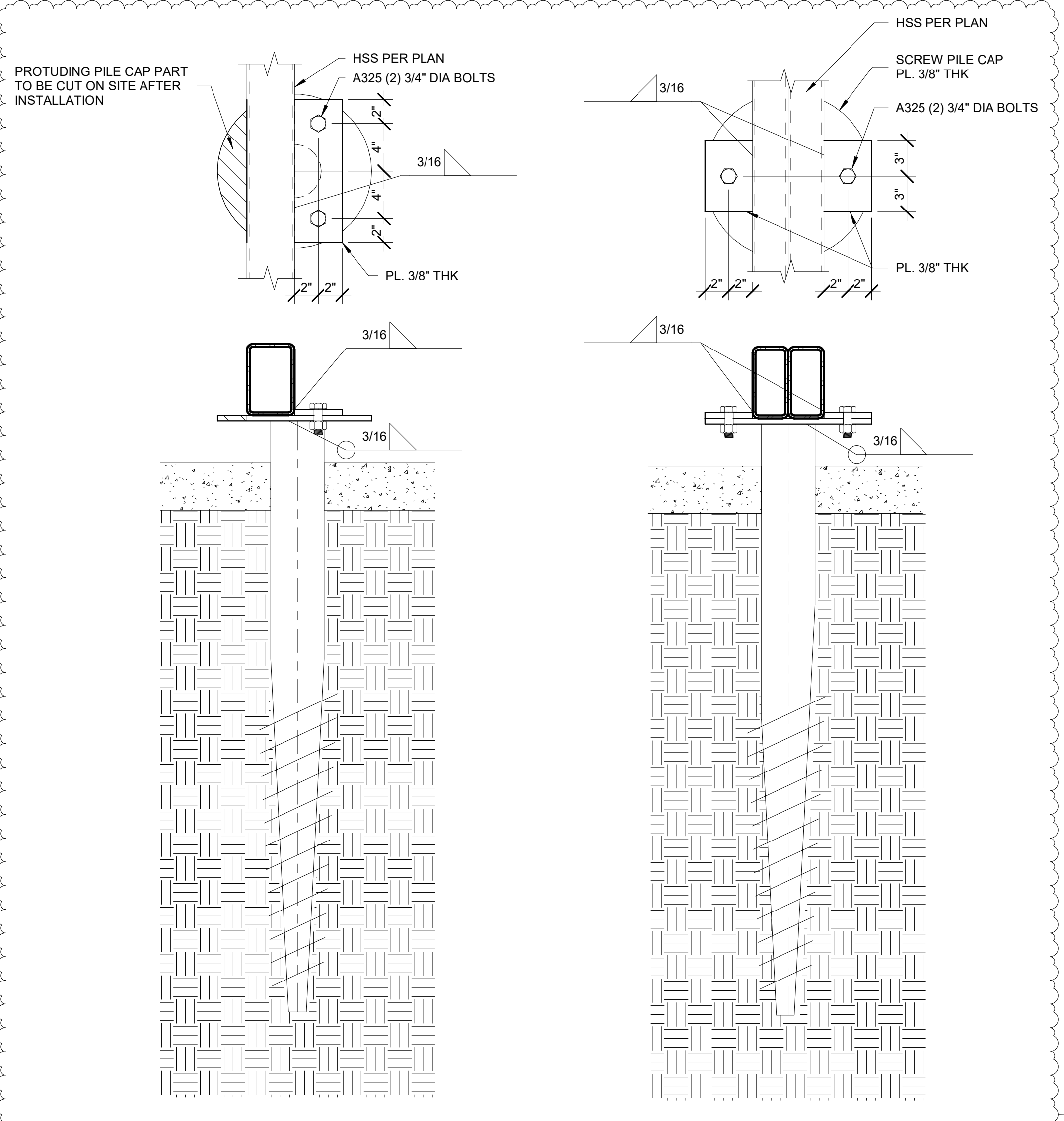
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SHEET NAME:
3D VIEWS



SCREW PILE SCHEDULE		
MODEL	MARK	QUANTITY
KSF M 76x2100	1	20
KSF M 114x2100	2	4

1 FOUNDATION PLAN - SCREW PILES M-SERIES
1/4" = 1'-0"



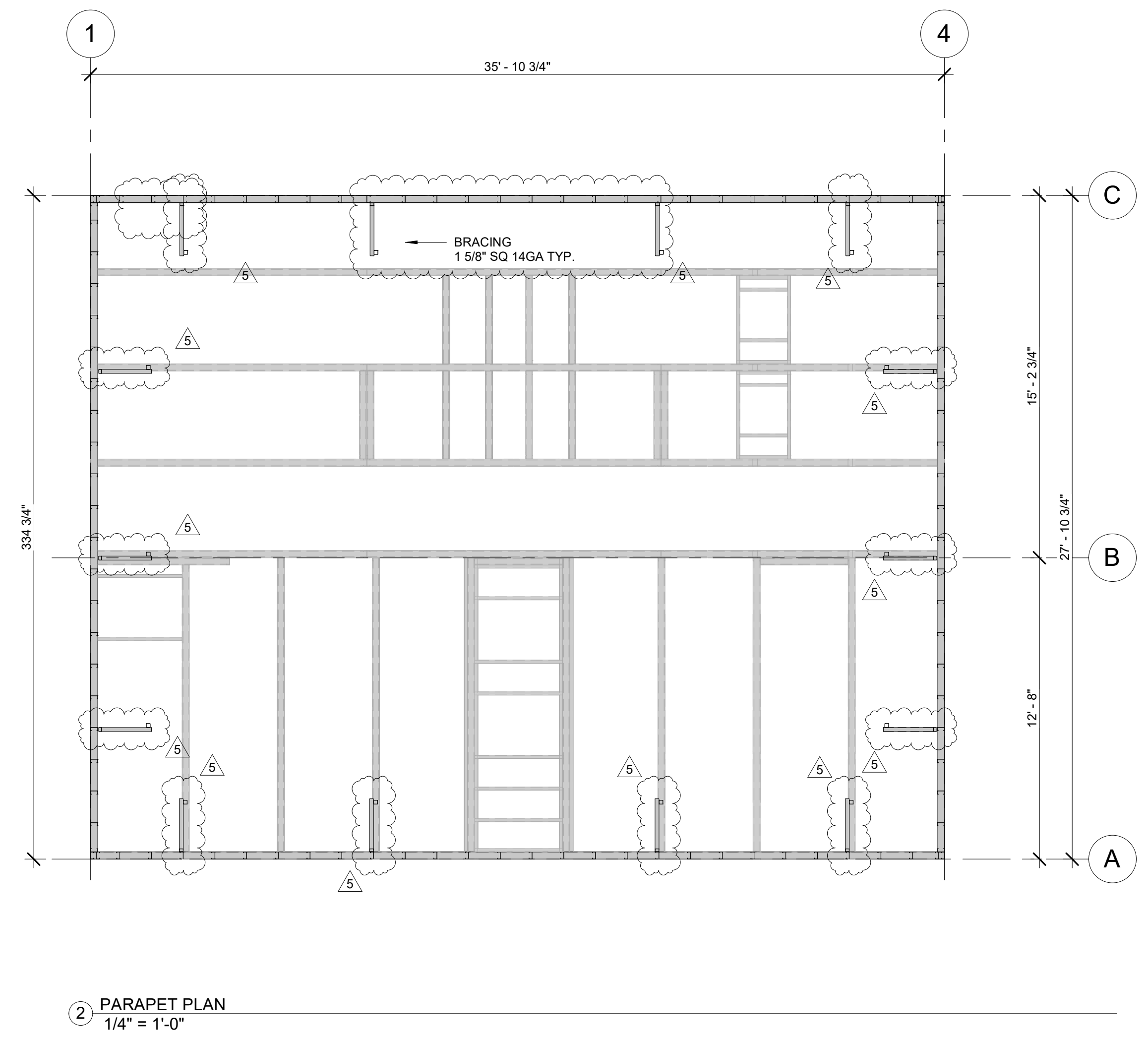
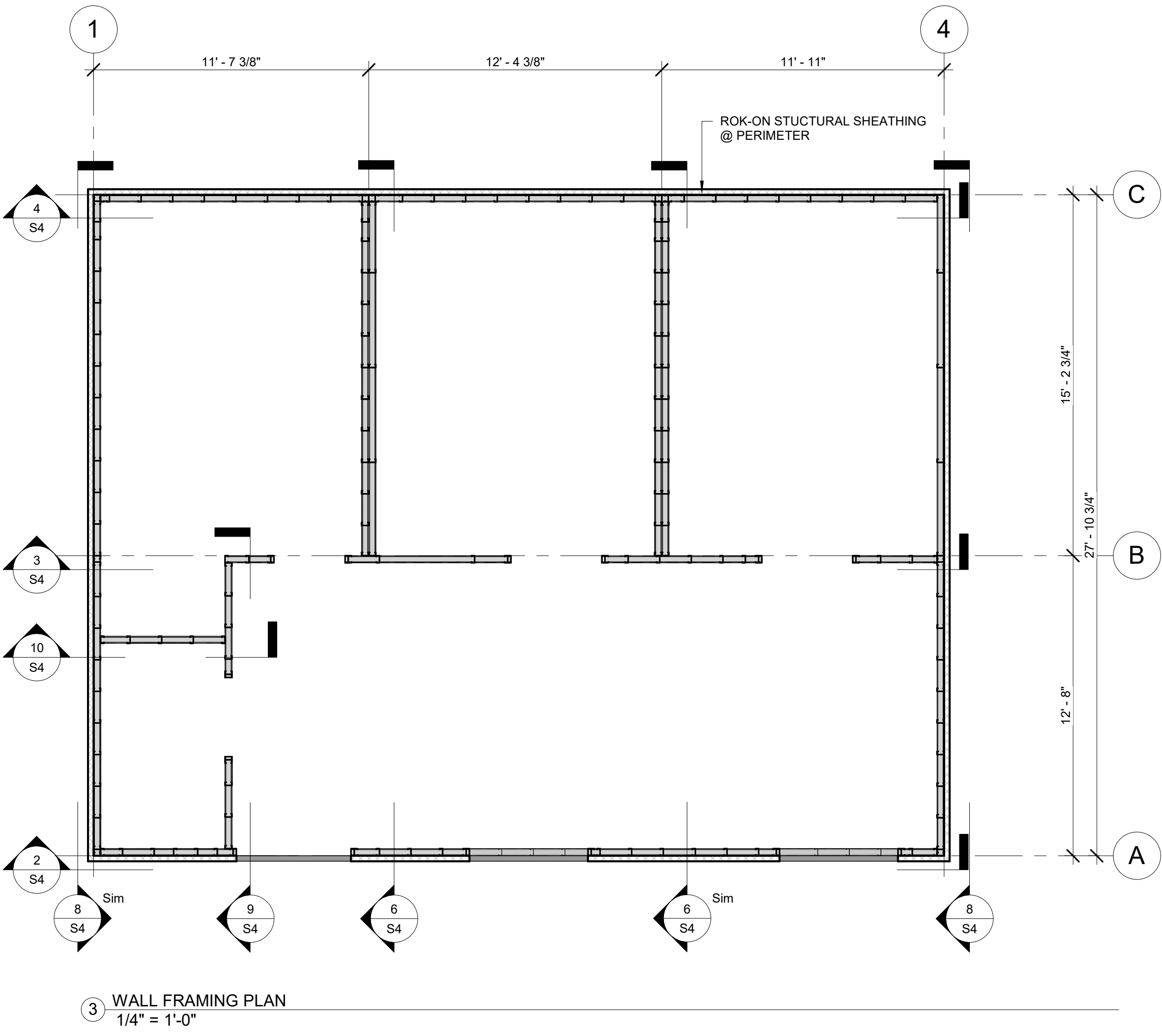
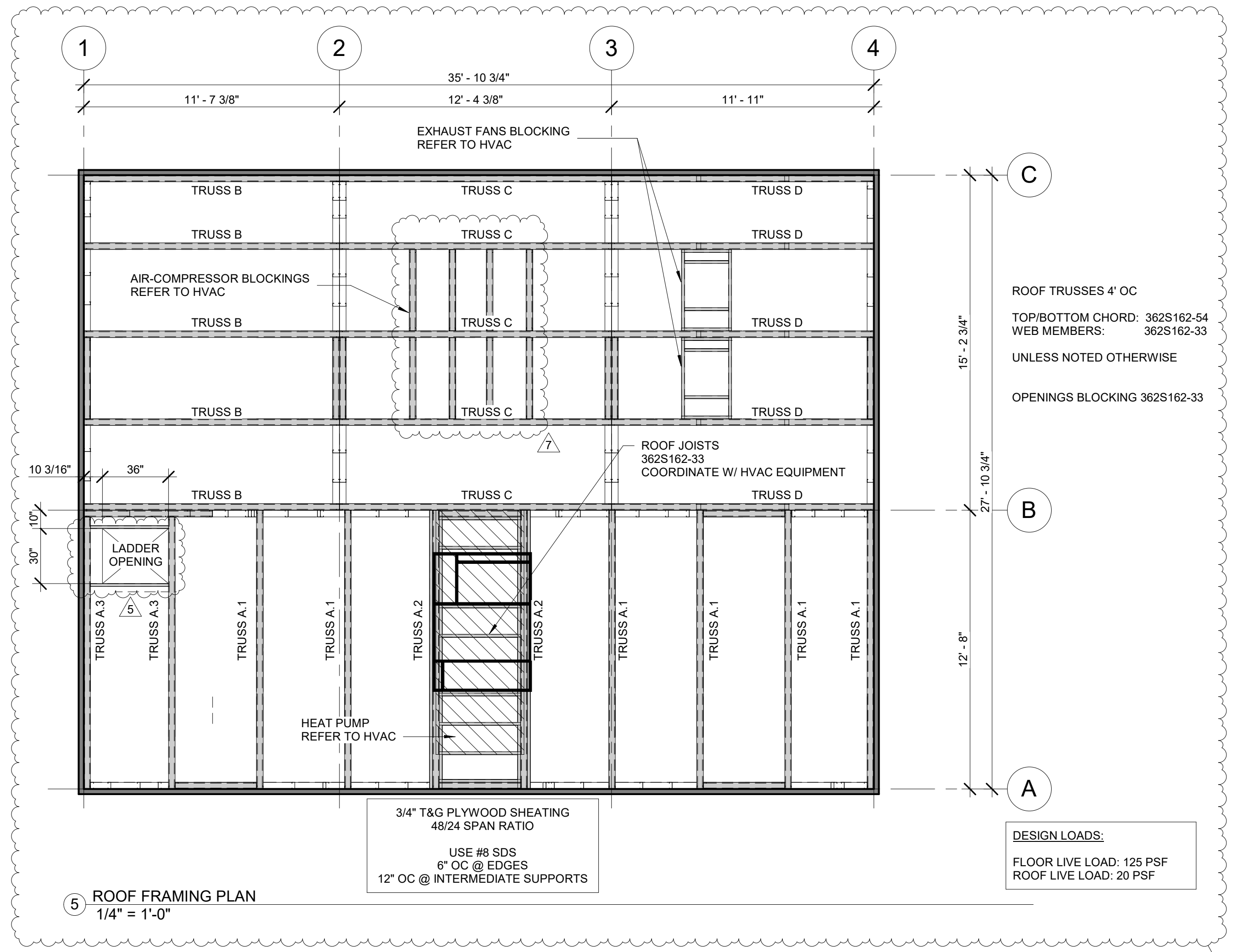
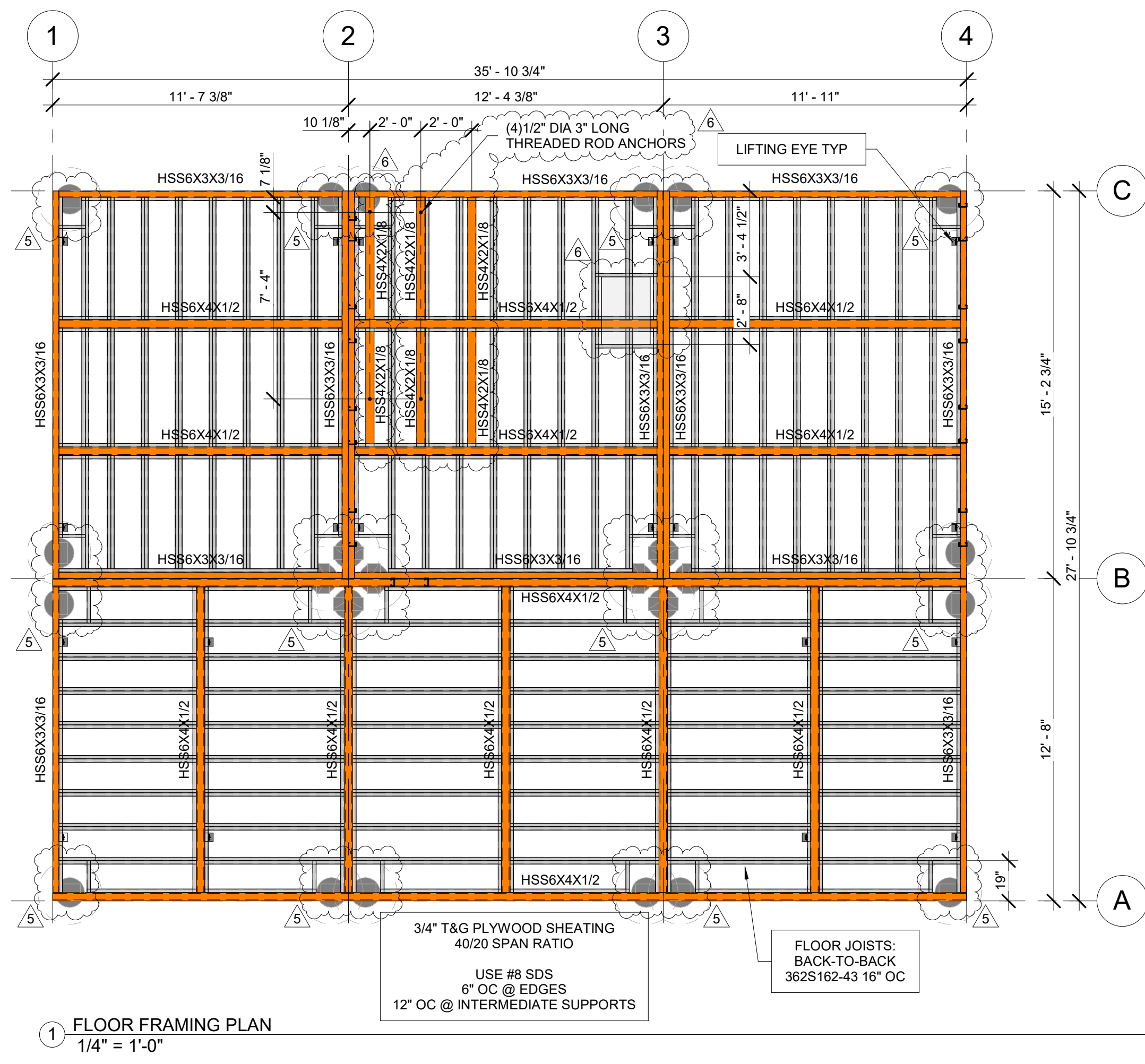
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S2

DRAWN BY:
MK

CHECKED BY:
JR

PROJECT NUMBER:
20-115

SHEET NAME:
FOUNDATION PLAN



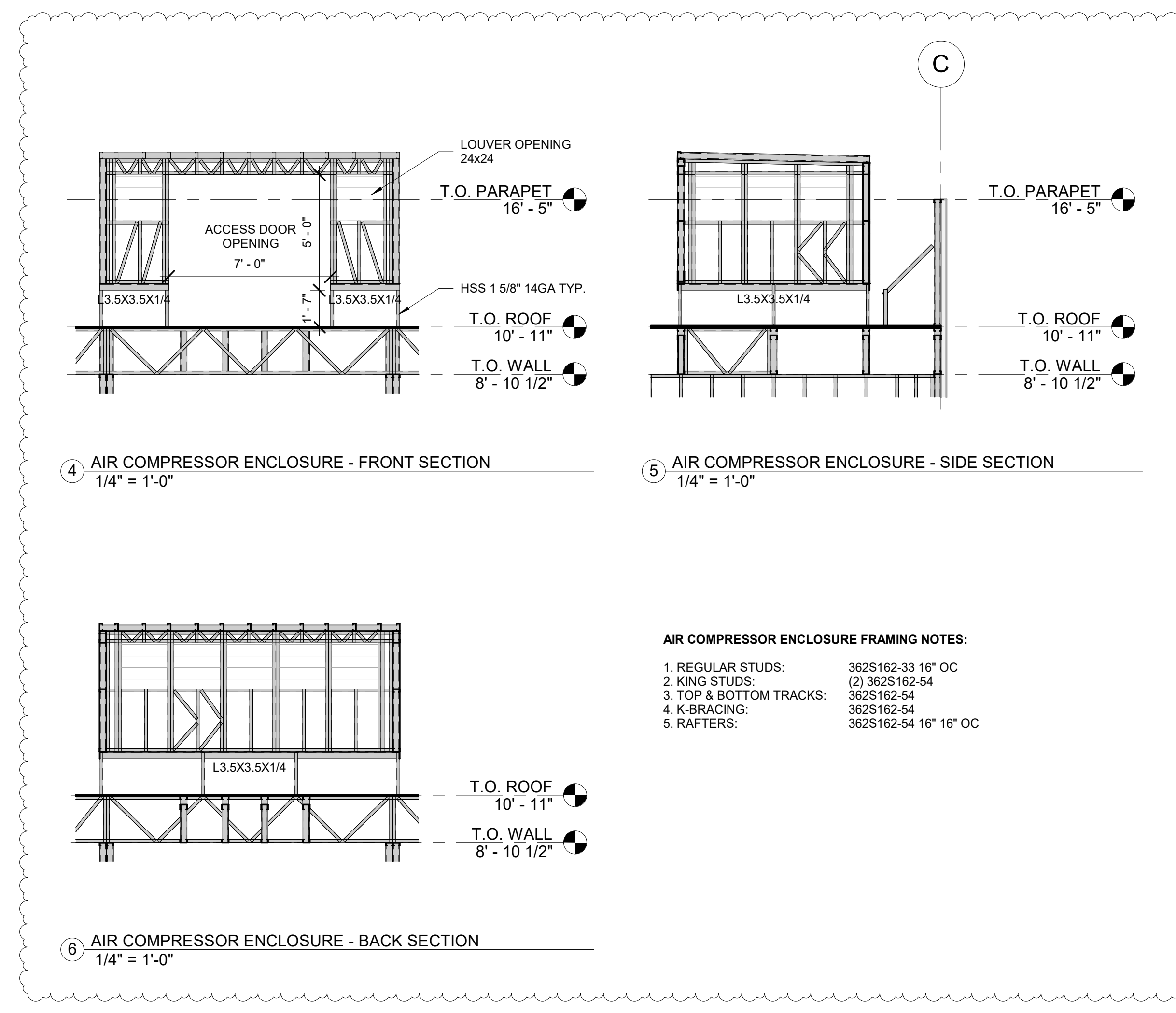
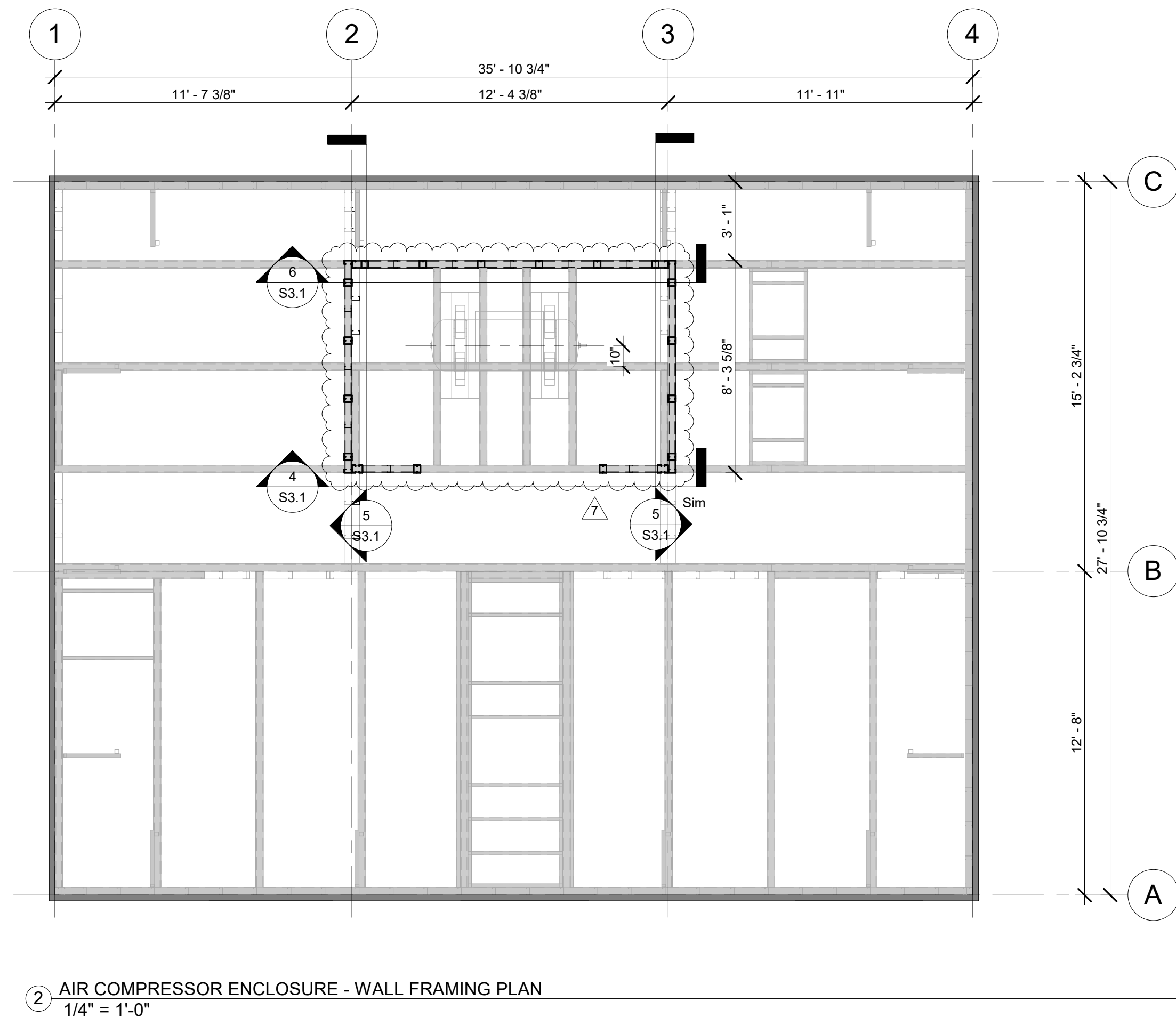
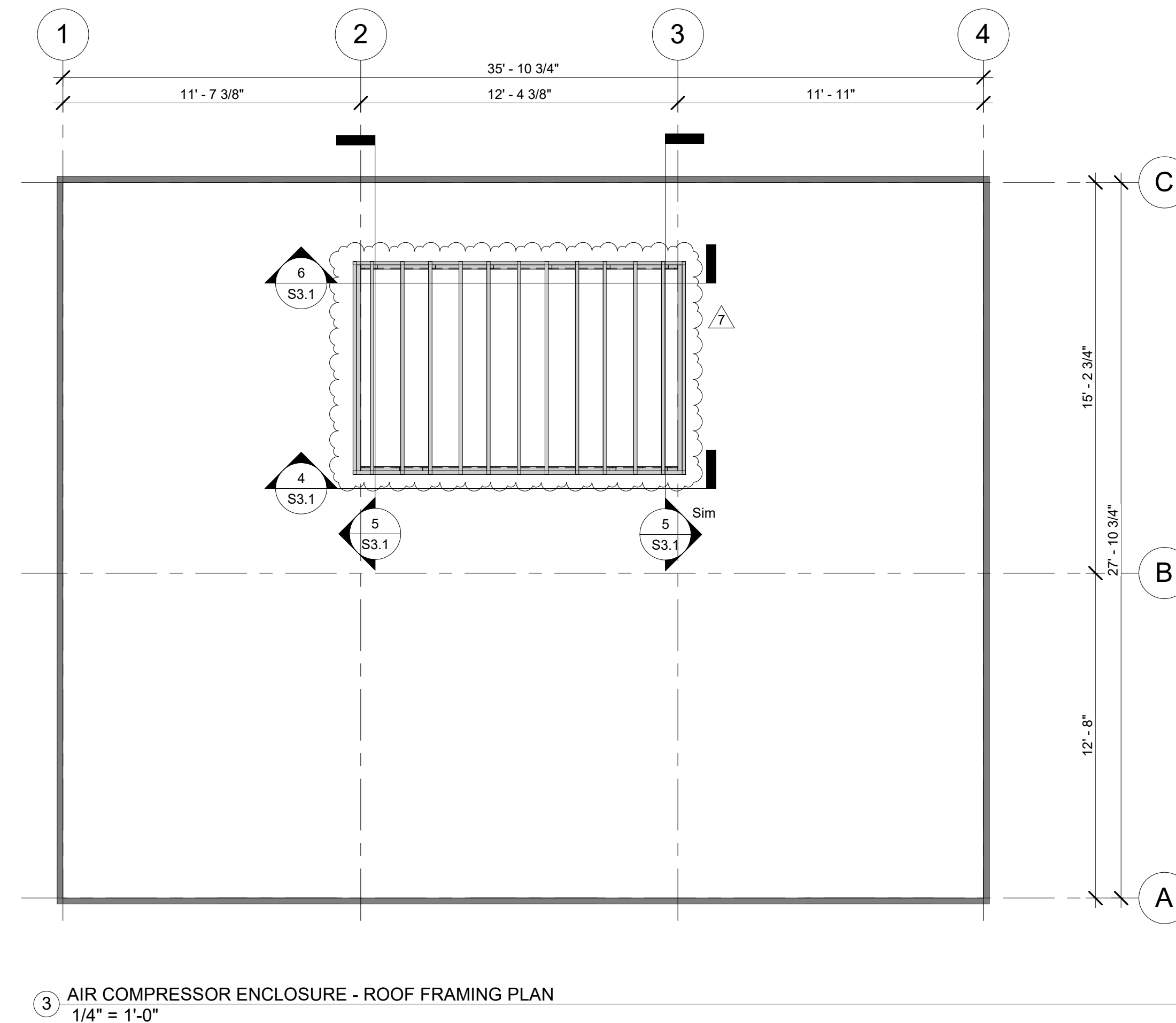
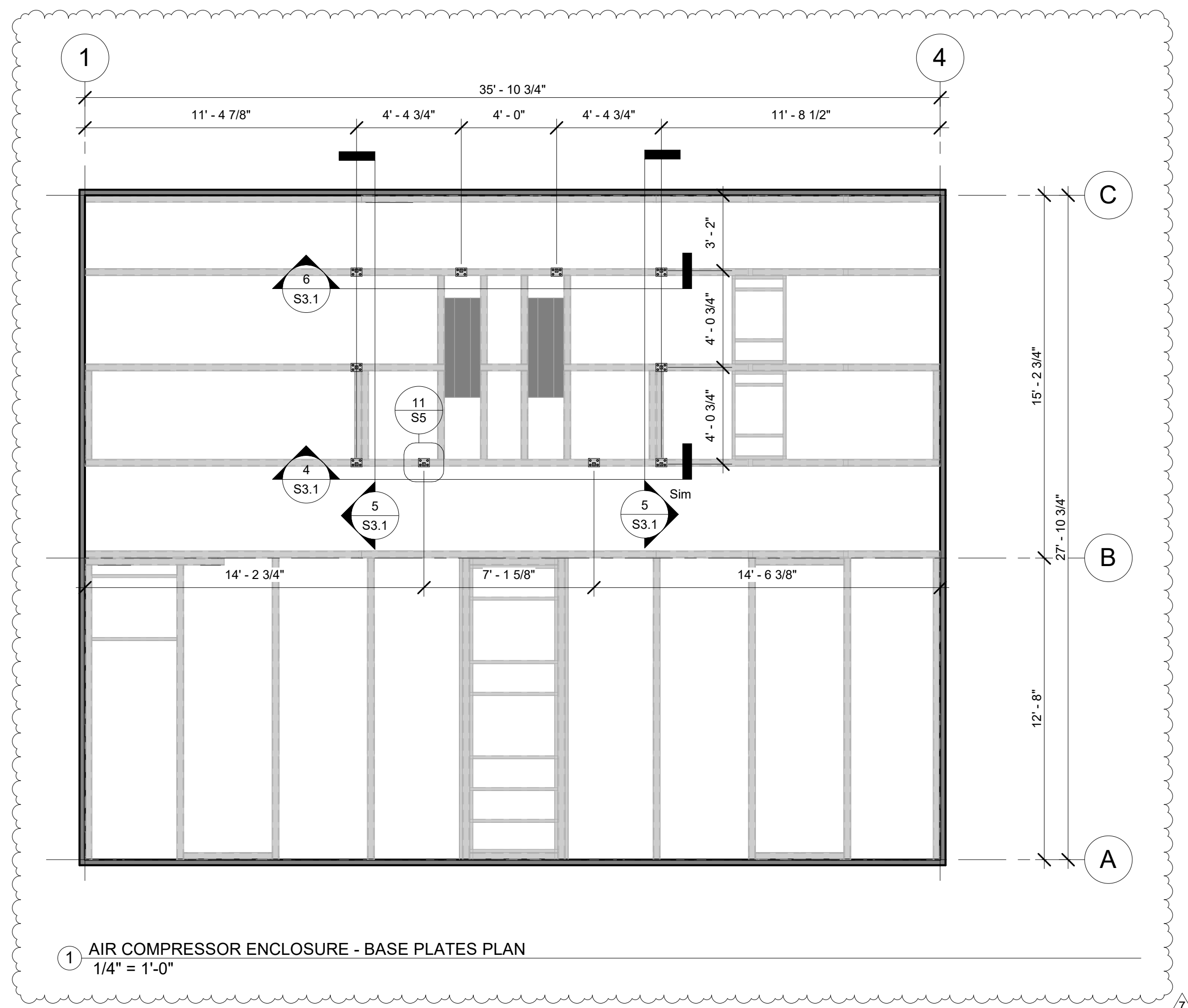
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S3

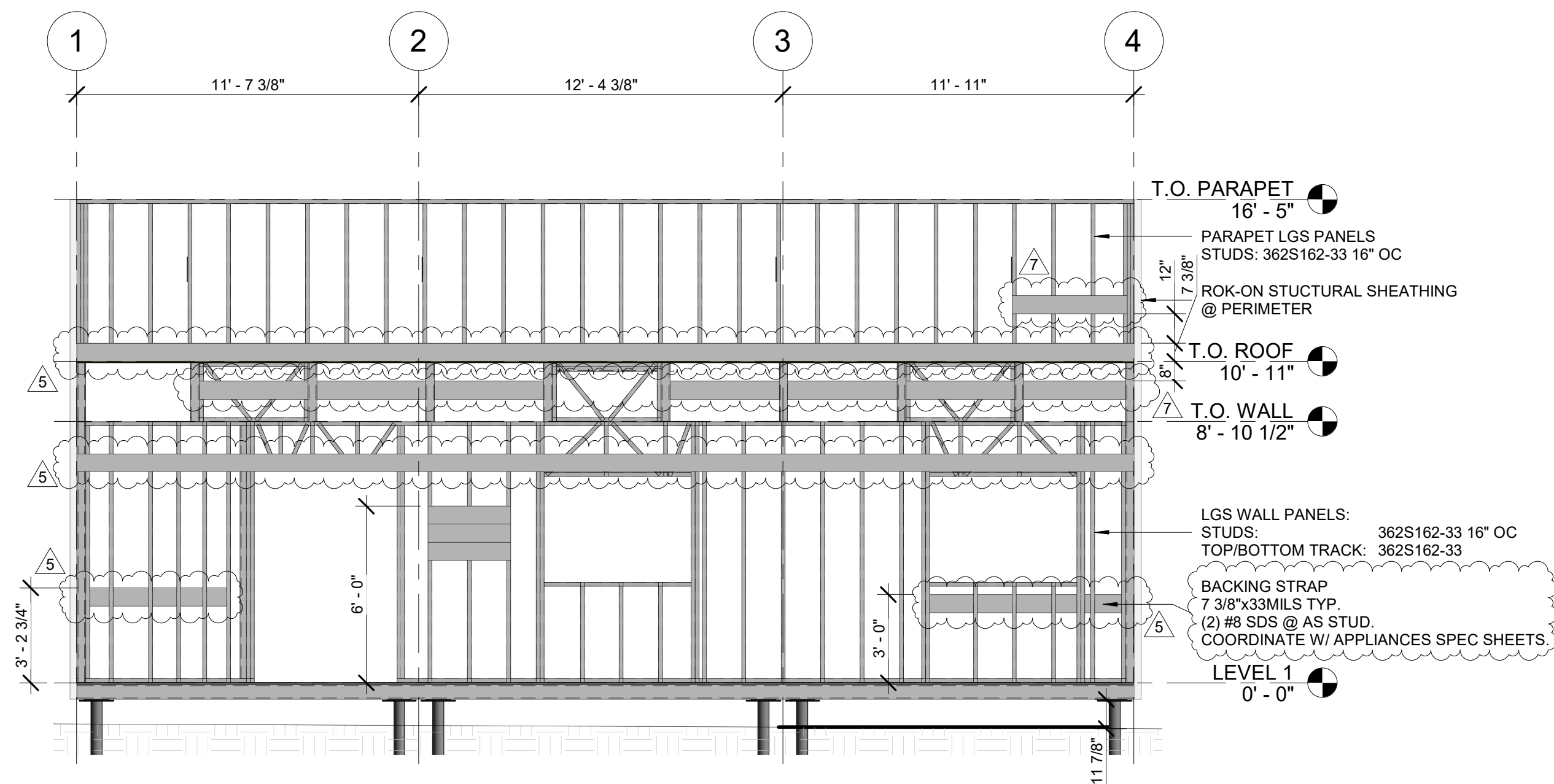
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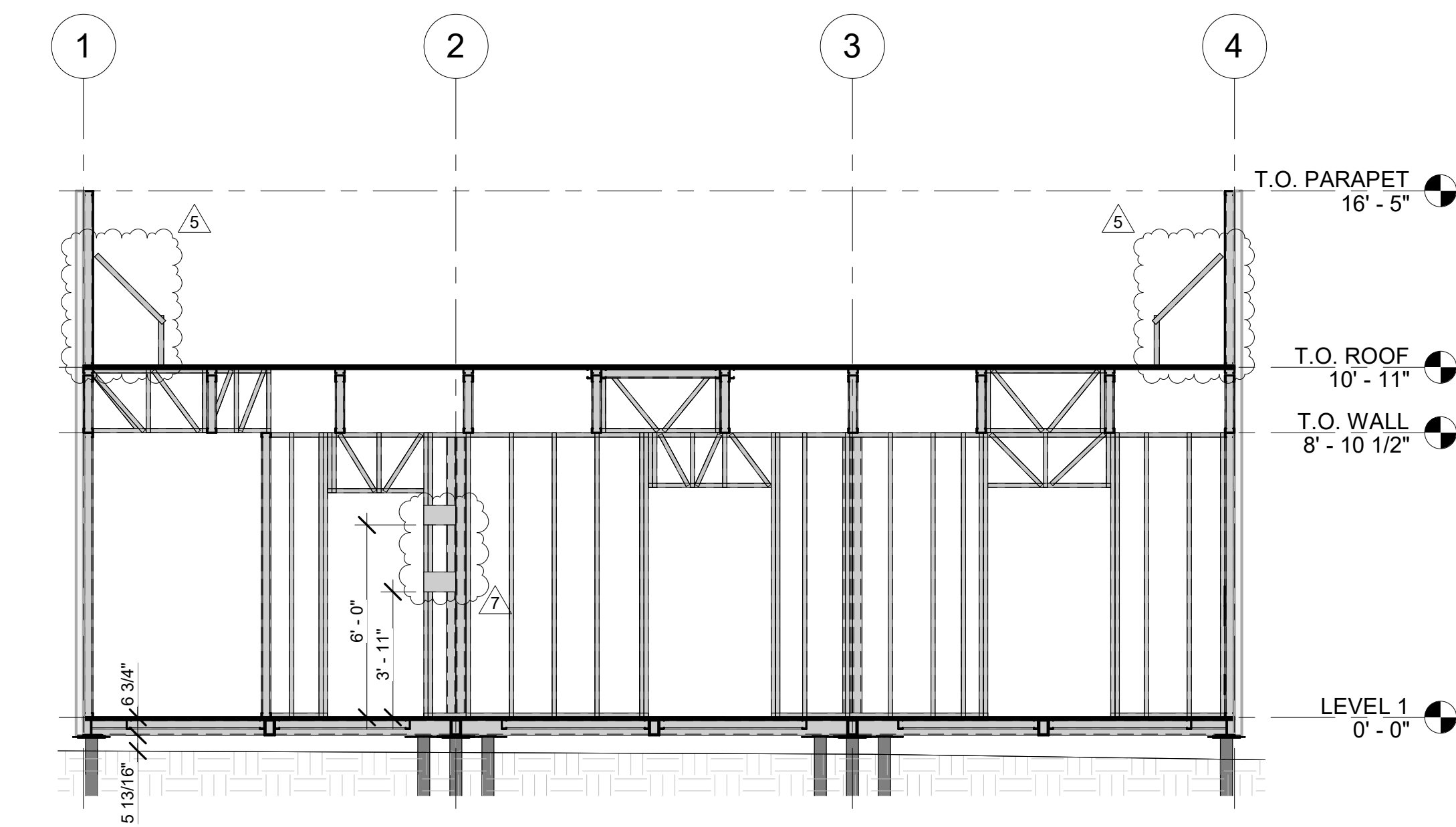
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STRUCTURAL PLANS

PROJECT NUMBER:
20-115

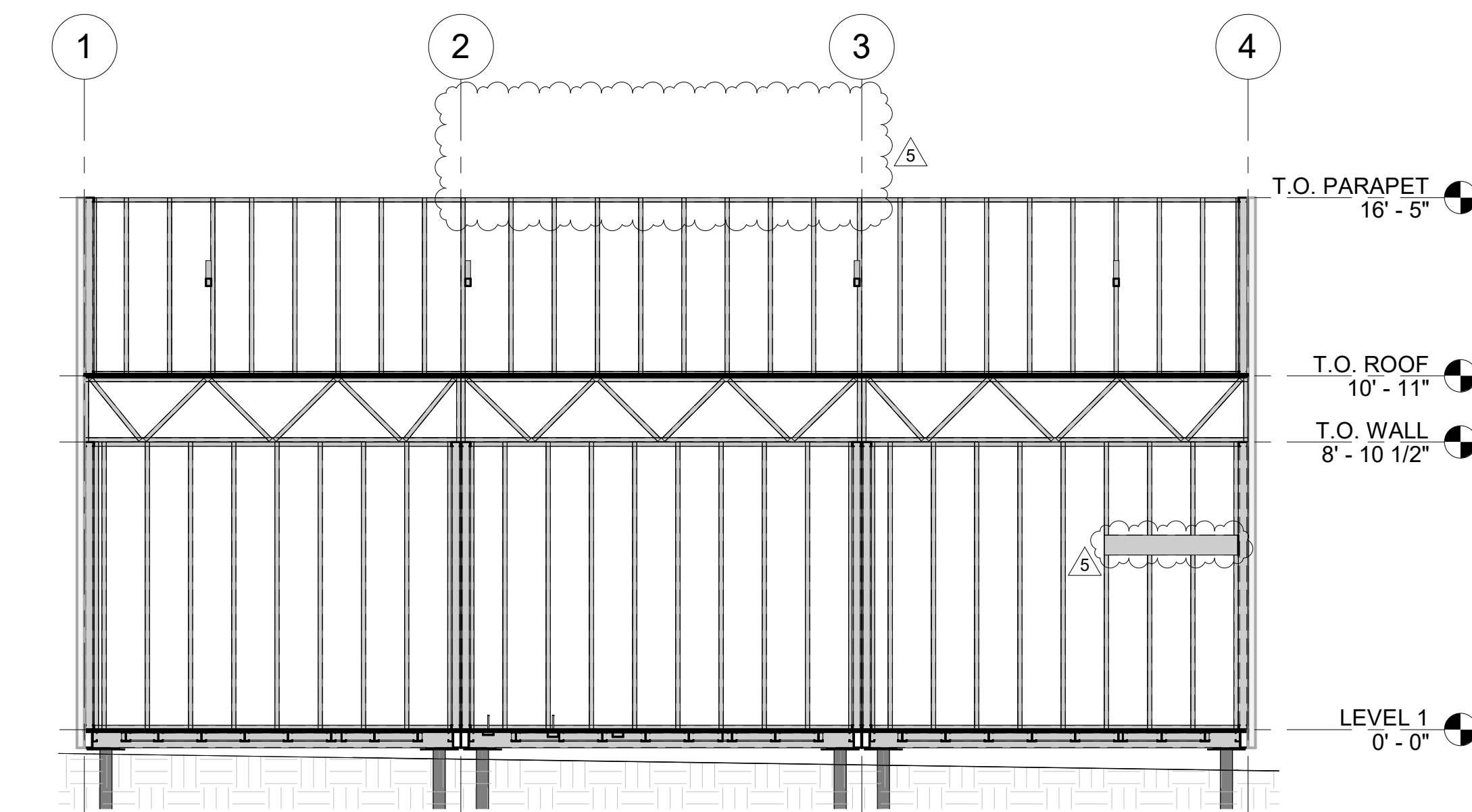




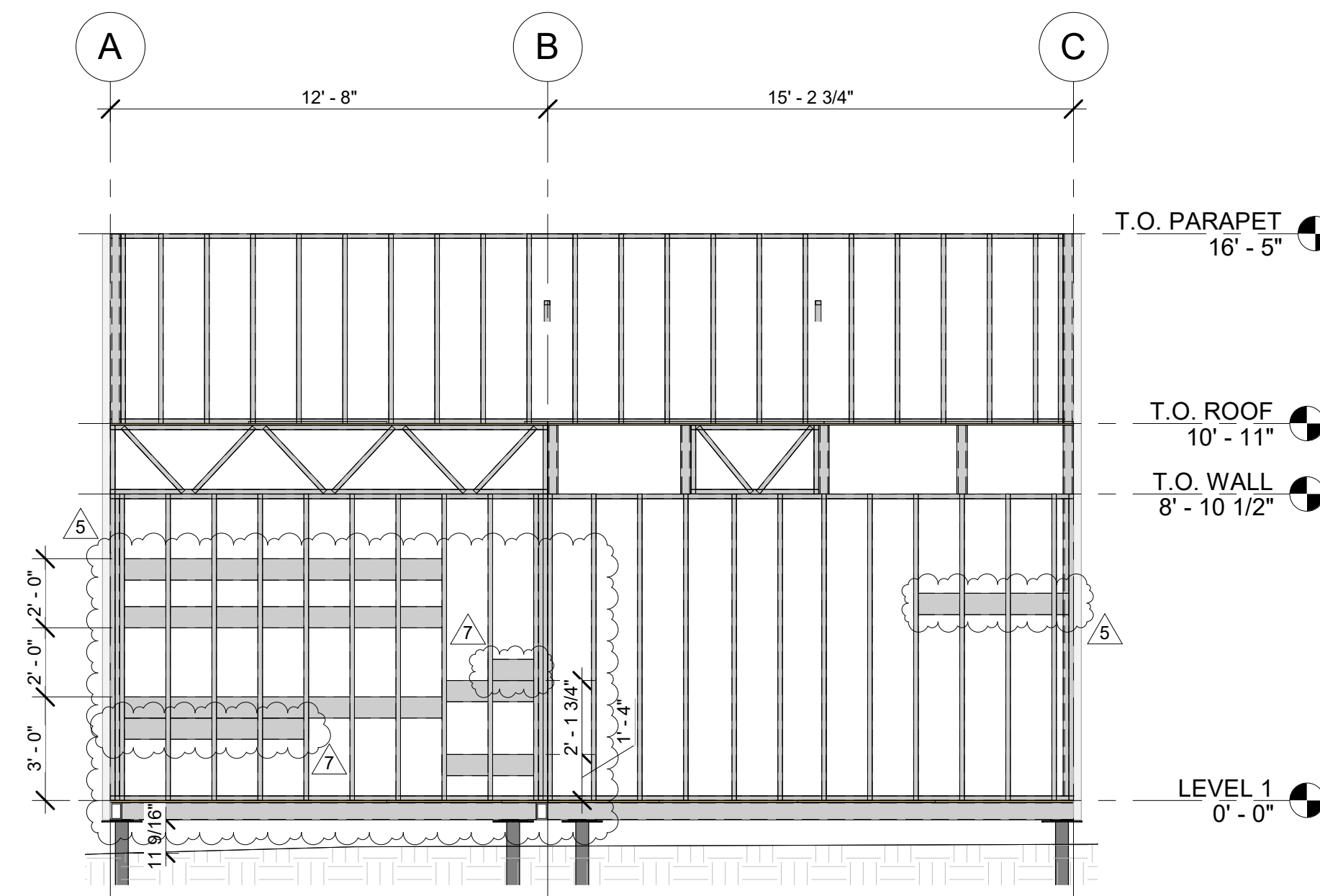
2 SECTION ALONG GRID A
1/4" = 1'-0"



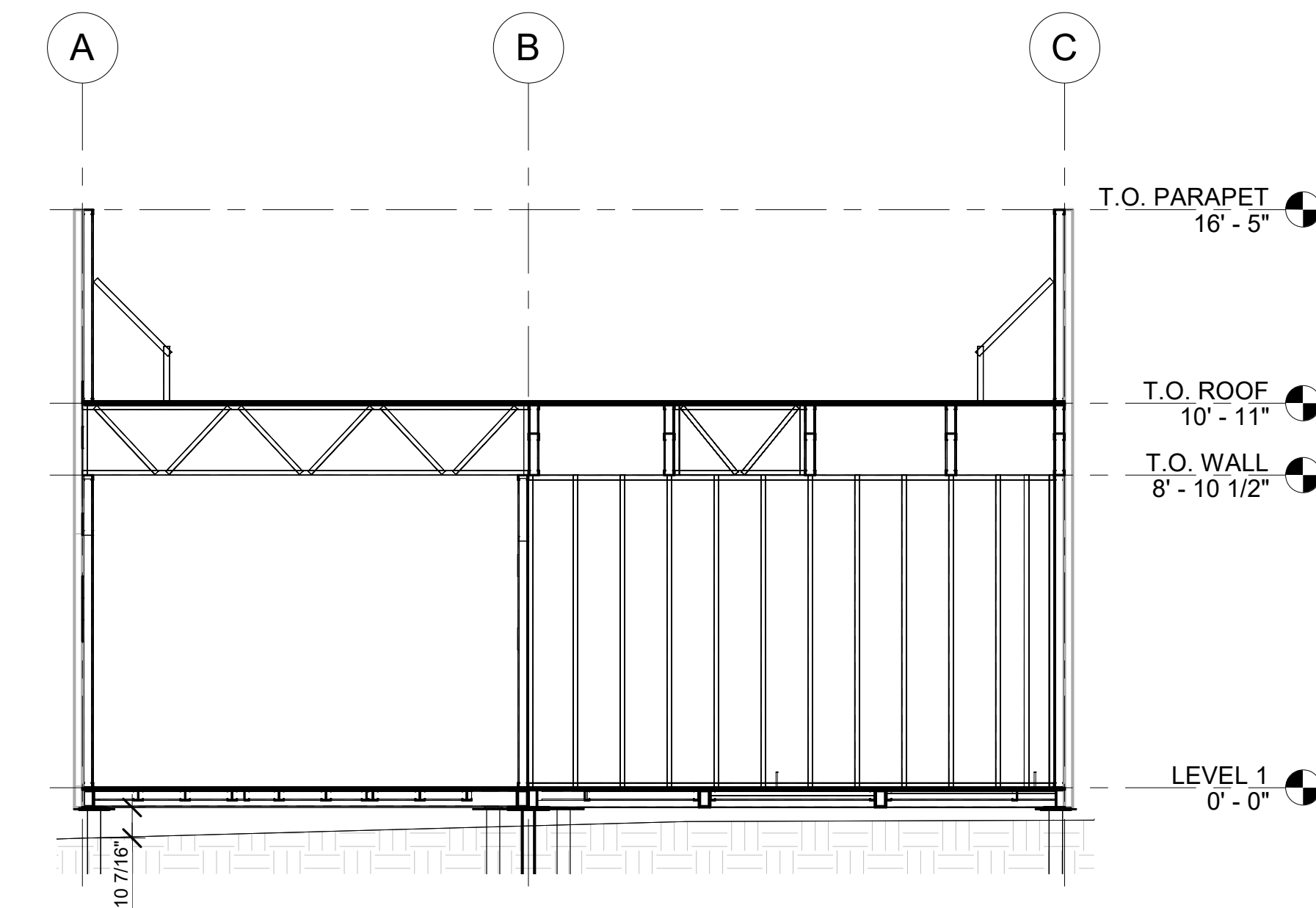
3 SECTION ALONG GRID B
1/4" = 1'-0"



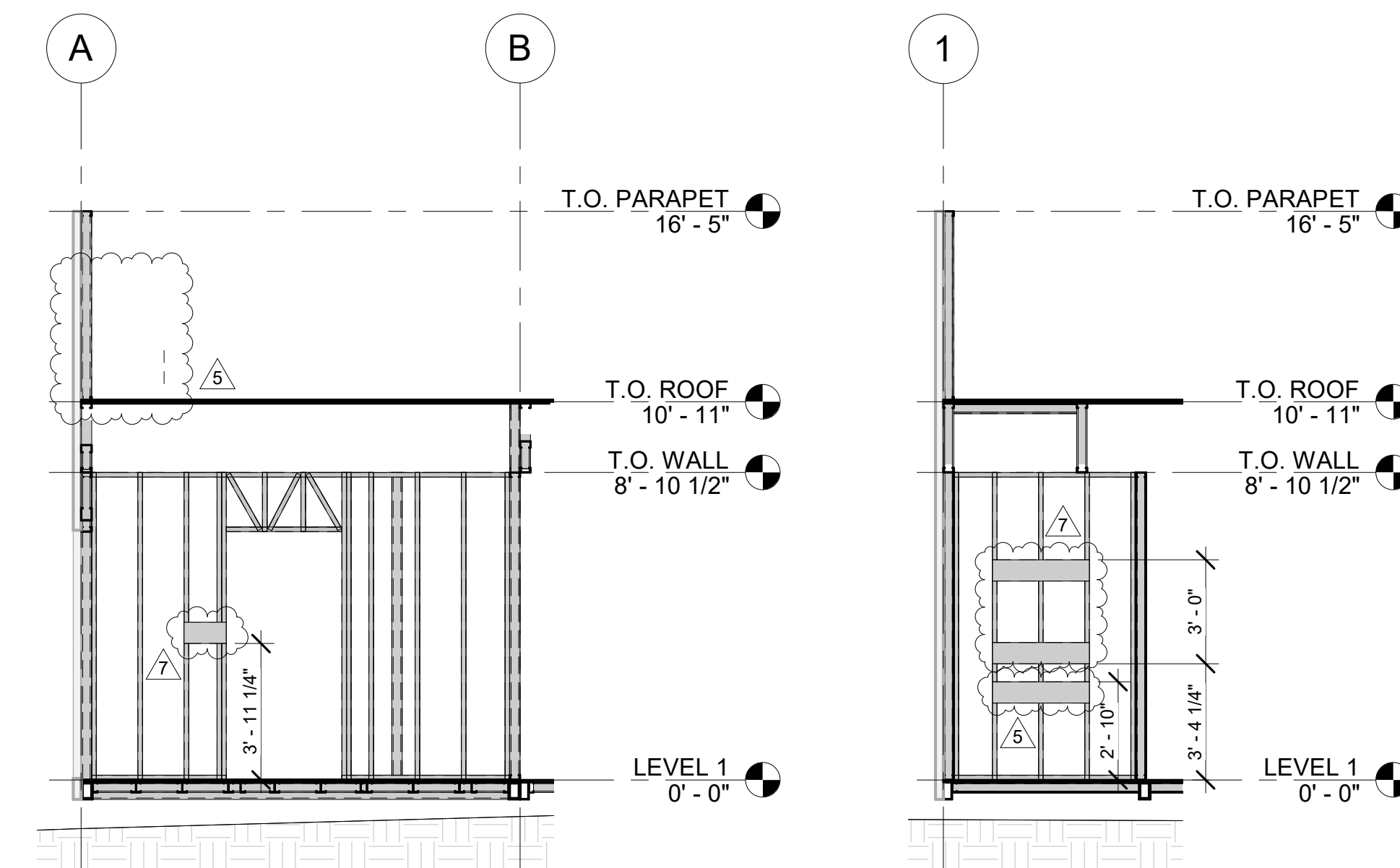
4 SECTION ALONG GRID C
1/4" = 1'-0"



8 SECTION ALONG GRID 4
1/4" = 1'-0"



6 SECTION ALONG GRID 2
1/4" = 1'-0"



9 SECTION BTWN GRIDS 1&2
1/4" = 1'-0"

10 SECTION BTWN GRIDS A&B
1/4" = 1'-0"

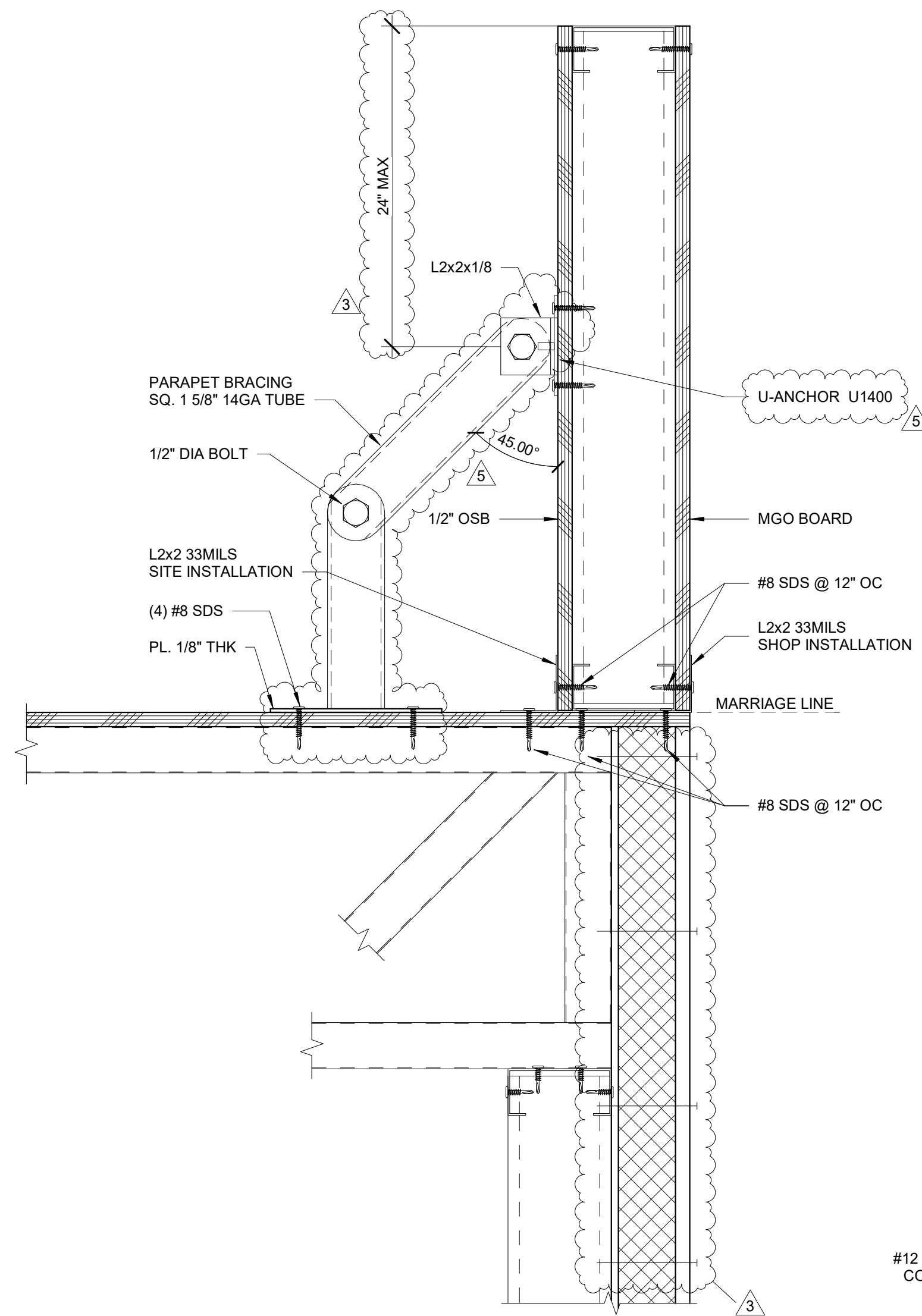
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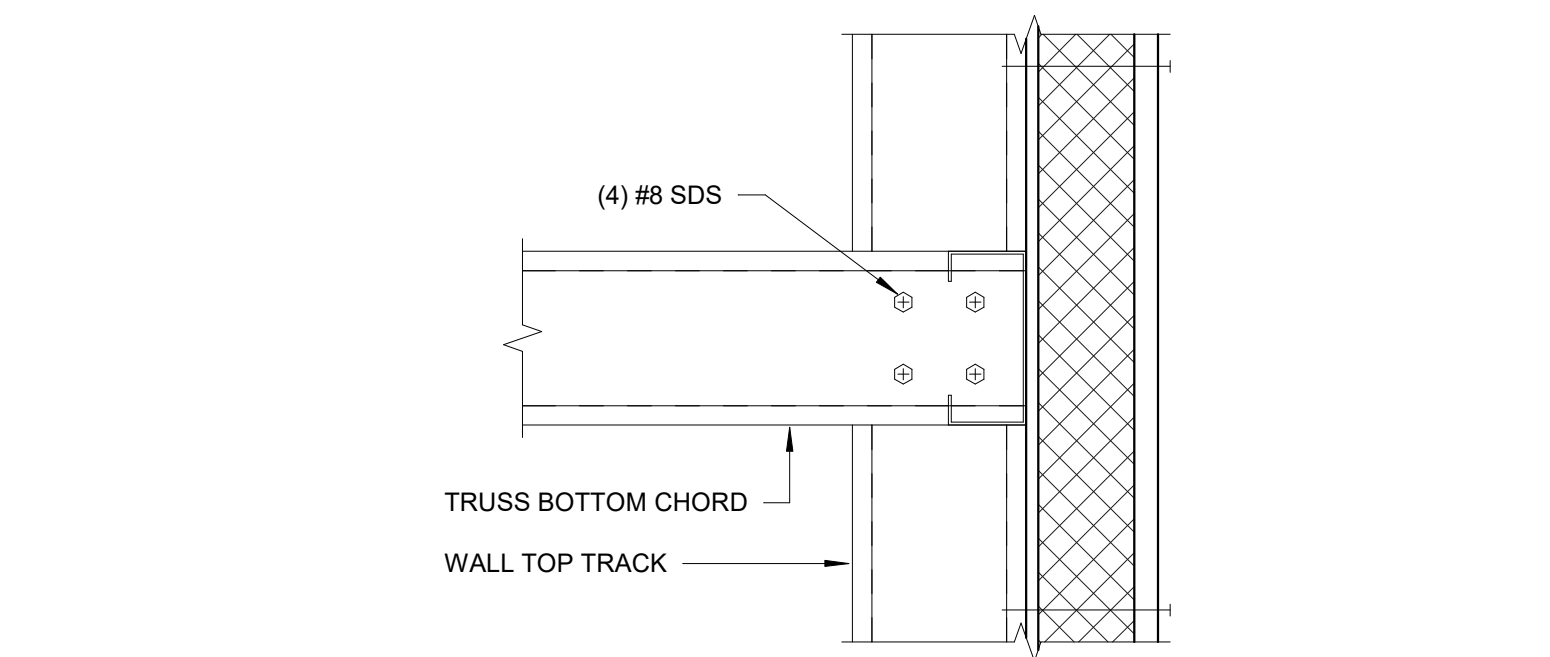
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SHEET NAME:
STRUCTURAL SECTIONS

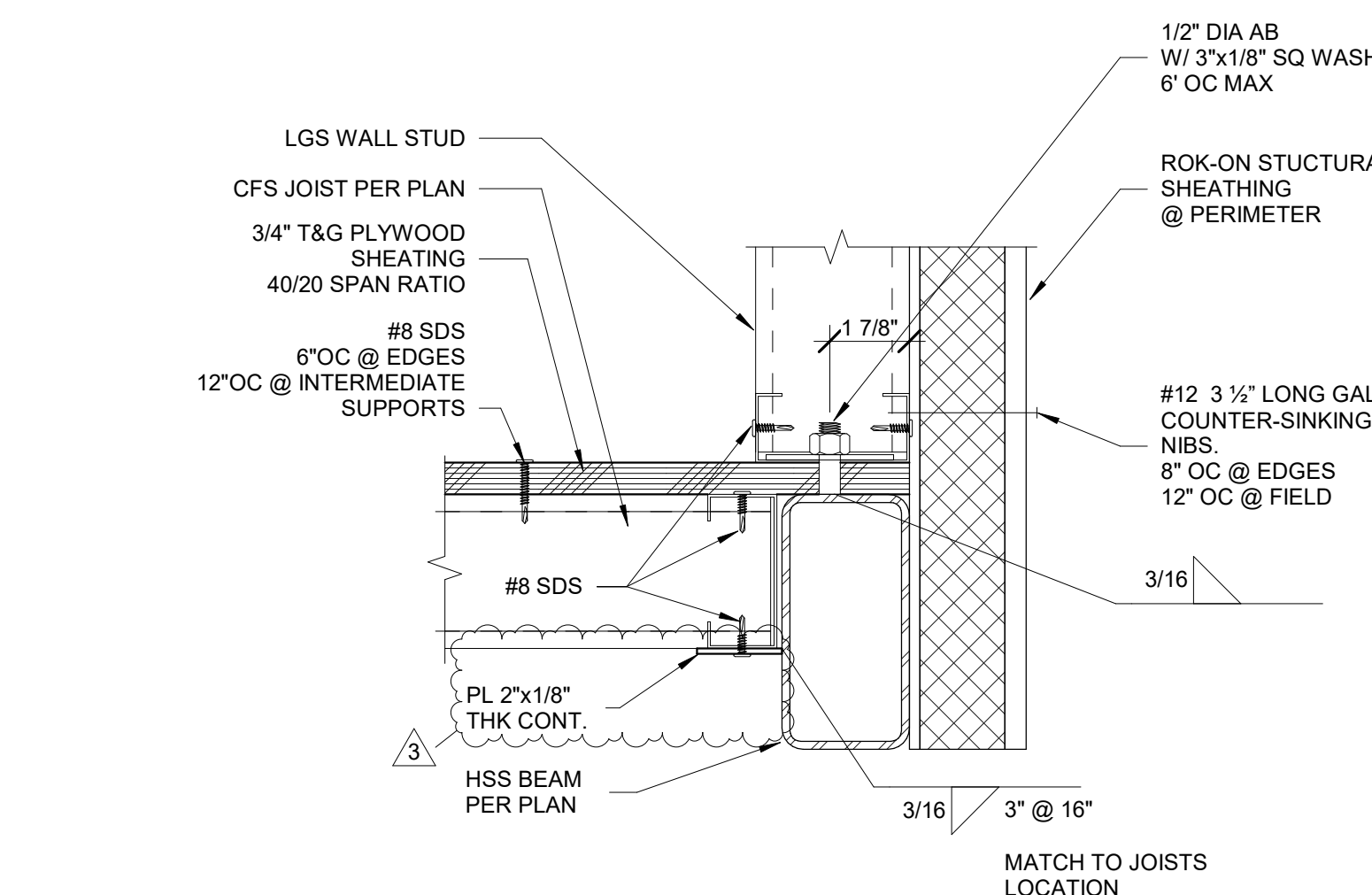
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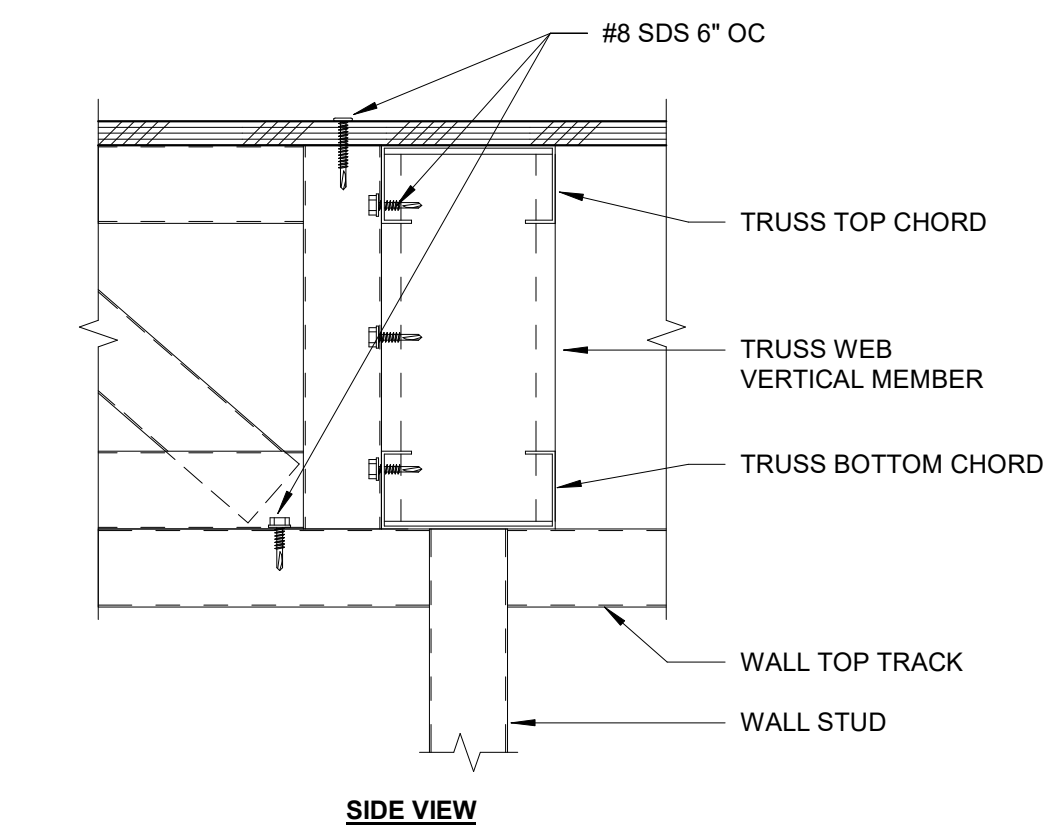
6 PARAPET DETAIL
3" = 1'-0"



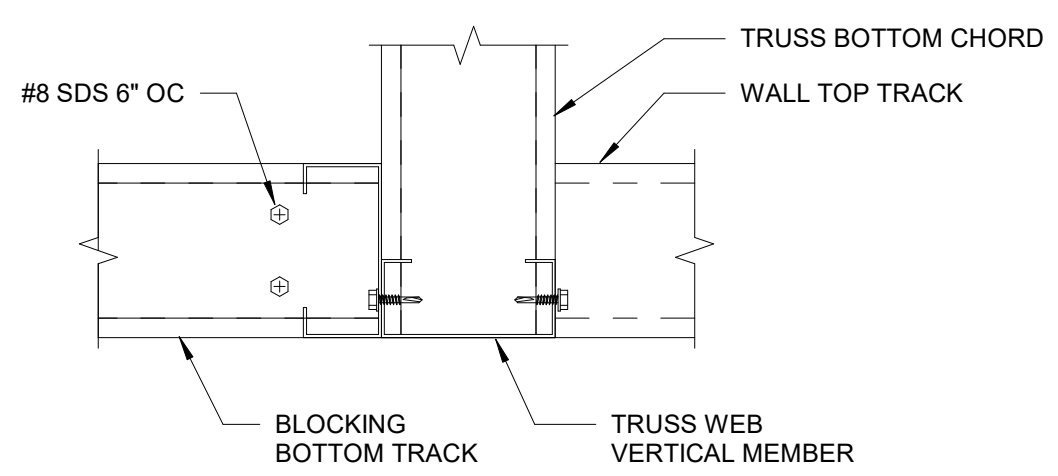
7 TRUSS TO WALL CONNECTION (TOP VIEW)
3" = 1'-0"



1 FLOOR JOIST TO HSS FRAME DETAIL
3" = 1'-0"

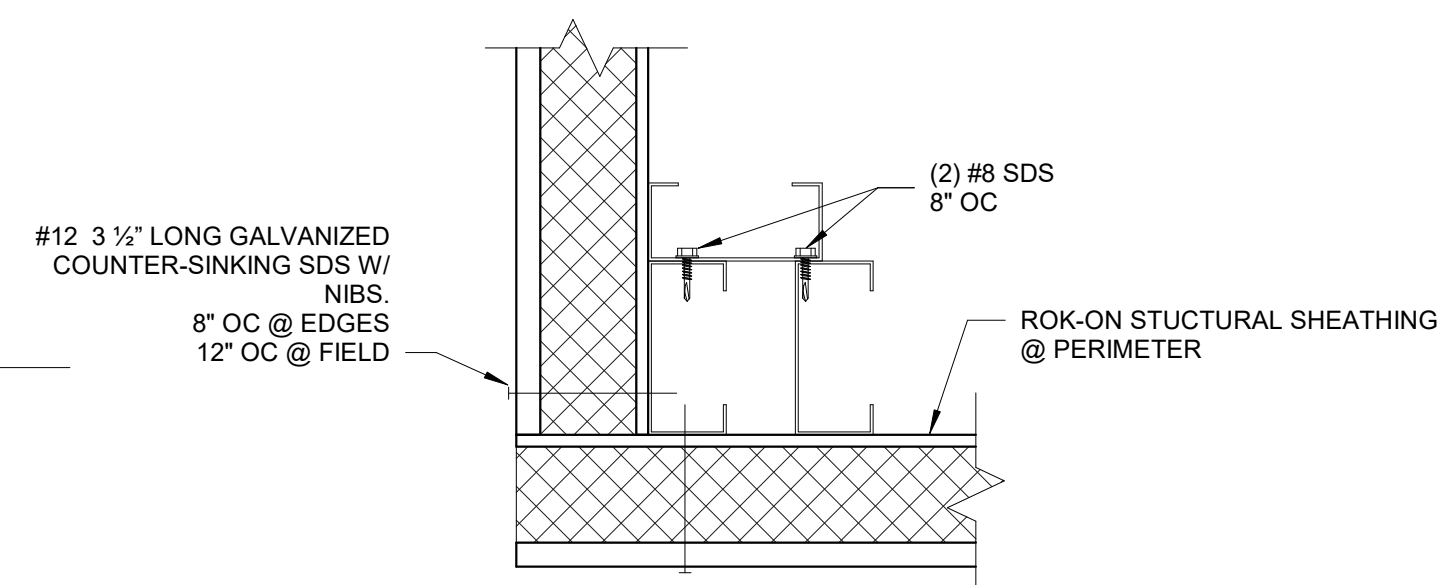


SIDE VIEW

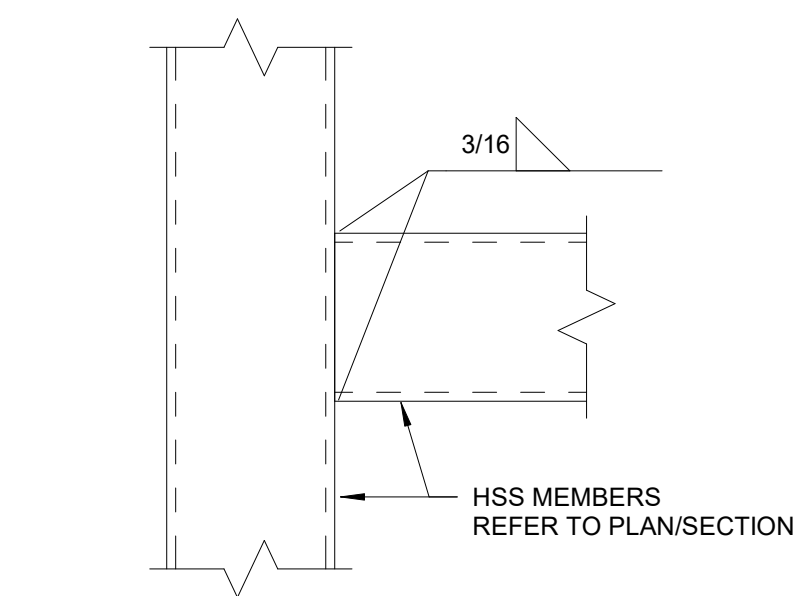


TOP VIEW

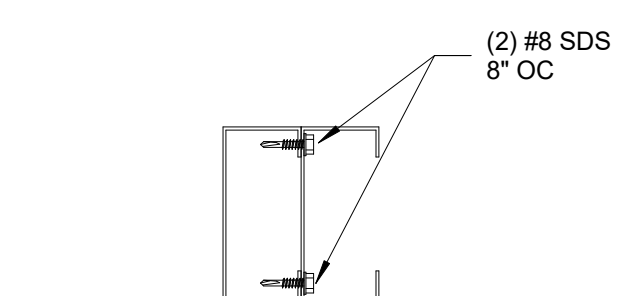
4 TRUSS BLOCKING DETAIL
3" = 1'-0"



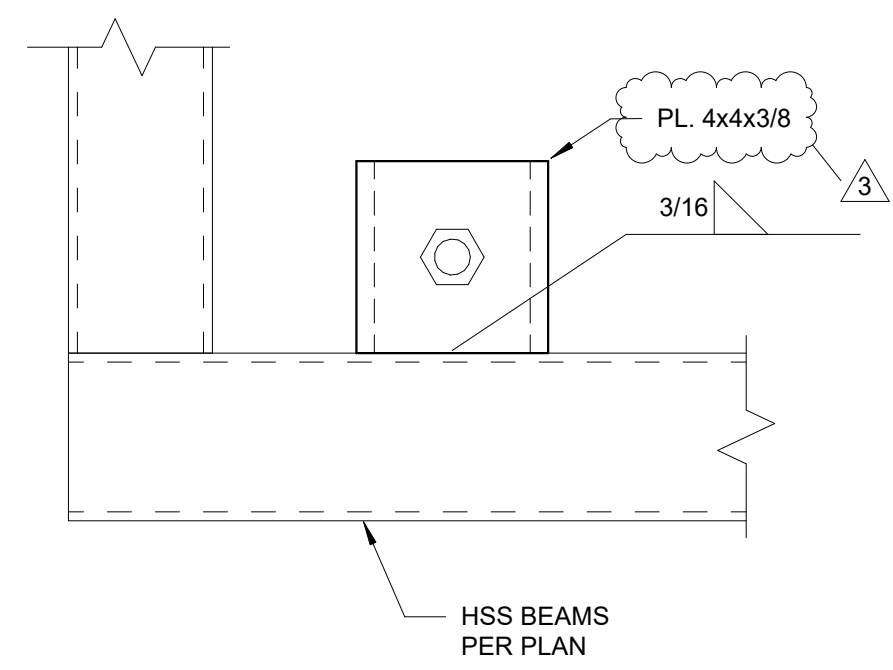
3 STUDS CONNECTION AT CORNERS
3" = 1'-0"



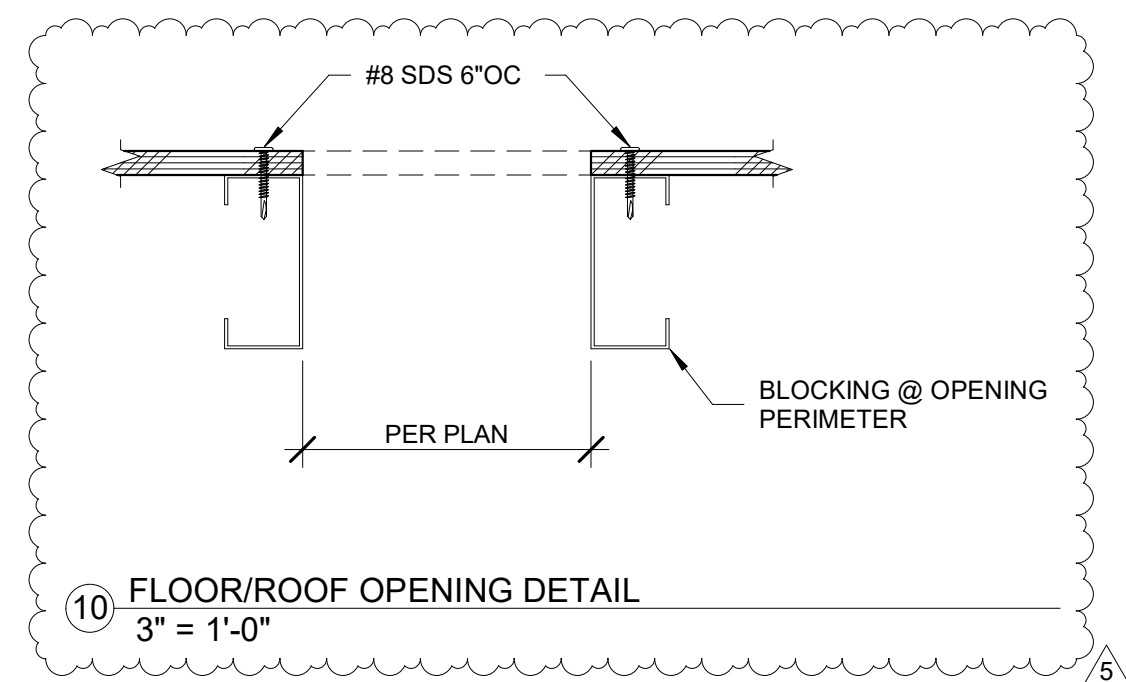
5 TYPICAL HSS TO HSS DETAIL
3" = 1'-0"



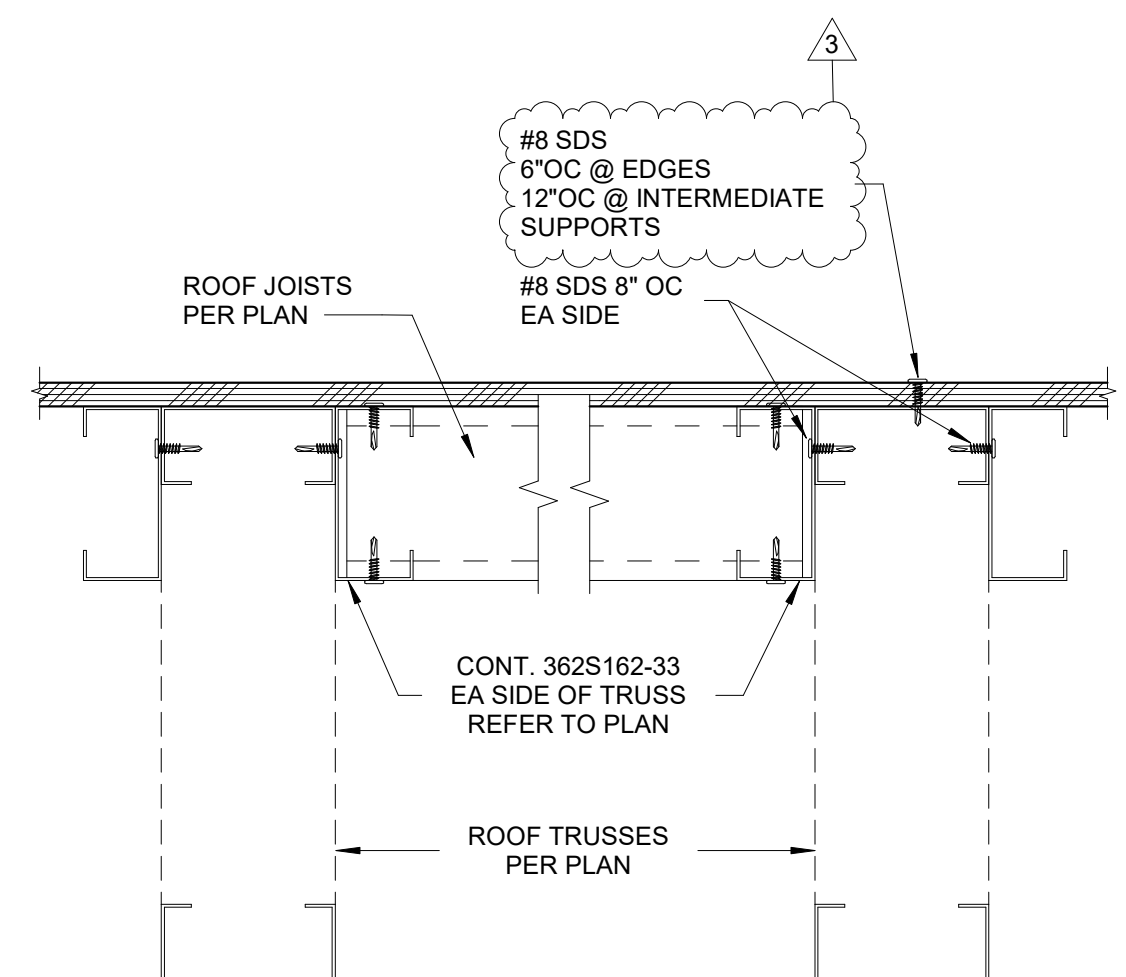
2 DOUBLE STUD CONNECTION
3" = 1'-0"



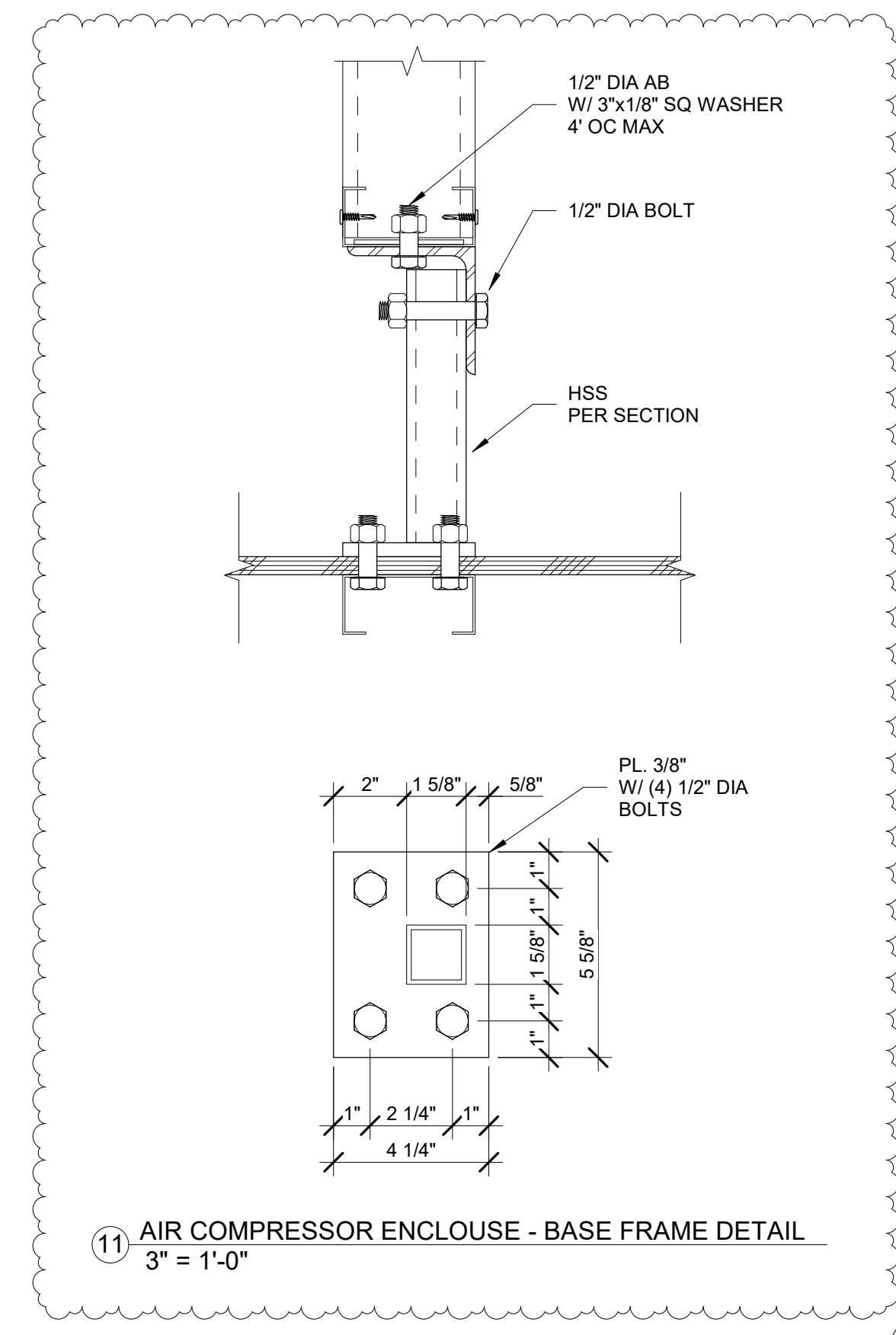
9 LIFTING EYE DETAIL
3" = 1'-0"



10 FLOOR/ROOF OPENING DETAIL
3" = 1'-0"



8 ROOF JOISTS CONNECTION
3" = 1'-0"



11 AIR COMPRESSOR ENCLOSE - BASE FRAME DETAIL
3" = 1'-0"