

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.
3. 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
4. ALTERNATIVE MATERIALS EQUAL OR GREAT SPEC ARE ACCEPTABLE

STRUCTURAL STEEL NOTES:

1. ALL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, WELDING SHALL CONFORM TO THE LATEST AWS AND AISC SPECIFICATIONS.
2. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE AND WITHIN THE TOLERANCES SPECIFIED IN THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL.
3. IT IS SPECIFICALLY NOTED THAT BURNED HOLES ARE NOT ACCEPTABLE UNLESS SPECIAL PERMISSION IS GIVEN BY ENGINEER.
4. ALL SHOP FABRICATED WORK SHALL BE DONE IN A SHOP APPROVED BY THE GOVERNING AGENCY. FABRICATOR SHALL SUBMIT PROGRAM OF WELDING INSPECTION TO ENGINEER FOR APPROVAL.
5. ALL STRUCTURAL STEEL SHALL BE AS FOLLOWS UNO:

ALL WF, WT SHAPES: CONNECTION PL & MISC STEEL (UNO): GUSSET & COLLECTOR PLATES: PIPE COLUMNS (TYPE S, SEAMLESS): STRUCTURAL TUBING: ANGLE, CHANNELS: THREADED ROD: HEADED SHEAR STUDS: ELECTRODES:	A992 GRADE 50 ASTM A36 ASTM A572 GRADE 50 ASTM A53 GRADE B ASTM A500 GRADE B ASTM A36 ASTM A36 ASTM A108, GRADES 1015 TO 1020, TYPE 316, 50 ksi a) E70XX FOR A36 b) FOR OTHER STEEL GRADES USE MATCHING WELD METAL AND PROCESSES
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6. ALL HIGH STRENGTH BOLTS SHALL BE ASTM A325-N TYPE UNLESS OTHERWISE NOTED.
7. ALL BOLTS USED FOR ERECTION SHALL BE ASTM A325 TYPE WITH THREADS EXCLUDED FROM SHEAR PLANES.
8. ALL PLAIN ANCHORS SHALL BE A36; ALL ANCHOR BOLTS SHALL COMPLY WITH ASTM F1554, 3" MINIMUM CONCRETE COVER WILL BE PLACED AROUND ALL ANCHOR BOLTS EXPOSED TO THE WEATHER, U.N.O.
9. WELDING MATERIALS: PROVIDE TYPE REQUIRED FOR MATERIALS BEING WELDED, PER AWS D1.1.
10. PROVIDE CONTINUOUS INSPECTION FOR ALL FABRICATION AND WELDING OF STRUCTURAL STEEL AS REQUIRED PER CODE REQUIREMENTS.
11. ALL COMPLETE PENETRATION GROOVE WELDS IN JOINTS AND SPLICES SHALL BE TESTED 100 PERCENT IN ACCORDANCE WITH IBC. USE ONE OF THE APPROVED METHODS OF TIGHTENING HIGH STRENGTH BOLTS.
12. A WELDING SEQUENCE SHALL BE PLANNED TO MINIMIZE RESIDUAL STRESSES AND DISTORTIONS OF INDIVIDUAL MEMBERS AND THE BUILDING RAME. ALL DETAILING, FABRICATION, AND ERECTION SHALL COMPLY WITH AISC, LATEST EDITION.
13. UNLESS OTHERWISE NOTED, ALL STIFFENER PLATES ARE 3/8" THICK MINIMUM AND ALL BUTT WELDS ARE FULL PENETRATION WELDS. ERECTION CLIPS, TEMPORARY BRACING, ETC., REQUIRED BY THE CONTRACTOR ARE NOT SHOWN.
14. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF ZINC CHROMATE PRIMER OR EQUAL. AFTER ERECTION, FIELD CONNECTIONS SHALL BE TOUCHED UP. DO NOT PAINT PORTION OF STEEL TO BE EMBEDDED IN CONCRETE, HEADED ANCHOR STUDS, FAYING SURFACES OR AREAS TO RECEIVE FIRE PROOFING. EXTERIOR, EXPOSED STEEL MEMBERS ARE SPECIFIED TO BE HOT-DIPPED GALVANIZED OR STAINLESS AS NOTED.
15. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION, THIS INCLUDES OPEN WEB JOIST CONNECTIONS.
16. THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION.

SLAB ON GRADE NOTES:

- SLAB CONSTRUCTION REFER TO S1/2 DETAIL
- MAXIMUM SLUMP FOR CONCRETE SLABS WILL BE 5" WITH TYPE II CEMENT
- ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH. WELDED WIRE FABRIC SHALL BE ORDERED IN SHEETS, NOT ROLLS. WELDED WIRE FABRIC SHALL BE BLOCKED INTO POSITION WITH PRECAST CONCRETE BLOCKS HAVING HE SAME COMPRESSIVE STRENGTH OF THE SLAB.
- THE ALTERNATE WIRES OF THE WELDED WIRE FABRIC MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE".
- THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED.
- ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR FILL MATERIAL WITH 100% PASSING THE 1/2" SIEVE AND NO MORE THAN 5% PASSING THE NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 98% MAX DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR METHOD.
- SLAB JOINTS SHALL BE FILLED WITH A SEALANT PER THE MANUFACTURER RECOMMENDATIONS.
- SLABS EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (±1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- THE SLAB SHALL BE WET CURED BY KEEPING THE SLAB MOIST FOR A PERIOD OF SEVEN DAYS. ALTERNATIVELY, PROVIDE A WET-CURING SEALANT PER THE MANUFACTURERS RECOMMENDATIONS.
- WRAP VAPOR BARRIER AROUND FOOTING ACCORDING TO BUILDING SCIENCE BEST PRACTICE.

LIGHT GAUGE STEEL NOTES:

1. ALL LIGHT GAUGE 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 EMBOSMENT, AT A MAXIMUM OF 48" ON CENTER, 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:

MEMBER DEPTH (IN 1/100 in)	362S162-33	FLANGE / LEG WIDTH (IN 1/100 in)	THICKNESS IN mils (1 mil = 1/1000 in)
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SECTION TYPE:
 S=STUD OR JOIST SECTION
 T= TRACK SECTIONS
 U=CHANNEL SECTIONS
 F=FURRING CHANNELS SECTIONS
 Z=ZEE SECTIONS

**THIS PROJECT WILL BE BUILD USING FRAMECAD @ MACHINERY FOR AUTOMATIVE LGS 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)
27	22	0.0269
33	20	0.0346
43	18	0.0451
54	16	0.0566
68	14	0.0713
97	12	0.1017

5. STUDS AND TRACKS THAT COMPRISE A HEADER, STRONGBACK OR 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 2016 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS" (AISI S100-16w/51-18) INCLUDING THE 2016 SUPPLEMENT SECTION J4 FOR SCREW CONNECTIONS. SCREWS TO CONFORM TO SAE J78.

	3 THREADS MIN. THRU STEEL
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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.

CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C818, AND C-260. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C-94.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:
- | | |
|-----------------------------------------|----------------------------------------------|
| LOCATION
FOUNDATION
SLAB ON GRADE | MIN f _c
2,500 PSI
2,500 PSI |
|-----------------------------------------|----------------------------------------------|
- REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS SHALL BE LAPPED WITH A TYPE 2 SPLICE UNLESS OTHERWISE NOTED
- BAR SUPPORTS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO ENSURE MINIMUM CONCRETE COVER. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
- CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (±1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.

AERATED AUTOCLAVED CONCRETE BLOCKS NOTES:

1. ALL AAC WALLS SHALL BE REINFORCED WITH VERTICAL REINFORCING. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES.
2. VERTICAL BARS (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, EACH SIDE OF JOINTS AND JAMB OF ALL OPENINGS.
3. ALL STEEL BEAM POCKETS IN AAC WALL SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
4. HORIZONTAL BARS SHALL BE PLACED IN U-BLOCK BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS. ALL HORIZONTAL BARS SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS.
5. ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING.
6. WALL REINFORCEMENT: THE MINIMUM REINFORCEMENT FOR ALL AAC WALLS SHALL BE AS FOLLOWS:
8 IN. WALLS: #6 @ 120" ON CENTER IN VERTICAL GROUTED 4" CELLS.
7. AAC MASONRY UNITS ARE LIGHT WEIGHT AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1350 PSI (f_m = 1350 PSI) ON THE NET SECTION.
8. MORTAR SHALL BE TYPE "S", CONFORM TO A.S.T.M. C270, AND SHALL HAVE THE FOLLOWING PROPORTIONS BY VOLUMES:
 PORTLAND CEMENT 1 PART
 HYDRATED LIME 1/4 - 1/2 PART DAMP.
 DAMP, LOOSE AGGREGATE:
 NOT LESS THAN 2-1/4 & NOT MORE THAN (3) TIMES THE SUM OF CEMENT AND LIME USED.
9. ALL SLAB ON GRADE REINFORCEMENT MUST BE ALIGNED WITH VERTICAL GROUTED AAC O-BLOCK 4" CELLS.
10. NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEG. F., UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.
11. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING.

SPECIAL INSPECTIONS NOTES:

VERIFICATION & INSPECTION	C	P	NOTES
1705.4 - MASONRY CONSTRUCTION			
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.		X	TMS 602/ACI 530.1/ASCE ART. 1.5
2. VERIFICATION OF FM AND FAAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.			TMS 602/ACI 530.1/ASCE ART. 1.4B
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.		X	TMS 602/ACI 530.1/ASCE ART. 1.5B.1.B.3
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
A. PROPORTIONS OF SITE-PREPARED MORTAR.		X	TMS 602/ACI 530.1/ASCE ART. 2.6A
B. CONSTRUCTION OF MORTAR JOINTS.		X	TMS 602/ACI 530.1/ASCE ART. 3.3B
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:			
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		X	TMS 602/ACI 530.1/ASCE ART. 3.3F
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		X	TMS 402/ACI 530/ASCE 5 SEC. 1.2.2(E), 1.16.1
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES.		X	TMS 402/ACI 530/ASCE 5 SEC. 1.15 TMS 602/ACI 530.1/ASCE ART. 2.4, 3.4
D. WELDING OF REINFORCING BARS.		X	TMS 402/ACI 530/ASCE 5 SEC. 2.1.9.7.2, 3.3.3.4(B)
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).		X	IBC SEC. 2104.3, 2104.4 TMS 602/ACI 530.1/ASCE ART. 1.8C, 1.8D
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
A. GROUT SPACE IS CLEAN.		X	TMS 602/ACI 530.1/ASCE ART. 3.2D
D. CONSTRUCTION OF MORTAR JOINTS.		X	TMS 602/ACI 530.1/ASCE ART. 3.3B
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE.		X	TMS 602/ACI 530.1/ASCE ART. 3.5
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.		X	IBC SEC. 2105.2.2, 2105.3 TMS 602/ACI 530.1/ASCE ART. 1.4
1705.12 - REQUIRED VERIFICATION AND INSPECTION FOR SEISMIC RESISTANCE			
3. STRUCTURAL LIGHT GAUGE STEEL LIGHT-FRAME CONSTRUCTION SPECIAL INSPECTION FOR SEISMIC RESISTANCE.			CBC 1705.12.3
1705.6 - SOILS			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.		X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	

VERIFICATION & INSPECTION	C	P	NOTES
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	

SCHEDULE OF SPECIAL INSPECTIONS
 COLUMN HEADER NOTATION USED IN TABLE:
 C INDICATES CONTINUOUS INSPECTION IS REQUIRED.
 P INDICATES PERIODIC INSPECTIONS ARE REQUIRED. THE NOTES AND/OR CONTRACT DOCUMENTS SHOULD CLARIFY.
 BOX ENTRY NOTATION USED IN TABLE:
 X IS PLACED IN THE APPROPRIATE COLUMN TO DENOTE EITHER "C" CONTINUOUS OR "P" PERIODIC INSPECTIONS.
 - DENOTES A ONE-TIME ACTIVITY OR ONE WHOSE FREQUENCY IS DEFINED IN SOME OTHER MANNER.
 ADDITIONAL DETAILS REGARDING INSPECTIONS ARE PROVIDED IN THE PROJECT SPECIFICATIONS OR NOTES ON THE DRAWINGS.

DESIGN PARAMETERS:

GENERAL PARAMETERS:

THE DESIGN FORCES LISTED ARE PER CHAPTER 16 OF 2022 CALIFORNIA BUILDING CODE(CBC-22) ASCE 7-16
 LOADS: DEAD LOAD (DL) PSF ROOF LIVE LOAD (LL) PSF
 ROOF: 17.75 20

SNOW LOAD:
 GROUND SNOW 0 PSF
 IMPORTANCE FACTOR I 1.0

WIND DESIGN BASIS:
 BASIC WIND SPEED 110 MPH
 IMPORTANCE FACTOR I 1.0
 RISK CATEGORY II
 WIND EXPOSURE C

SEISMIC DESIGN BASIS:
 IMPORTANCE FACTOR I 1.0
 SITE CLASS D (ASSUME STIFF SOIL PROFILE)
 S_s 0.496
 S₁ 0.235
 S_d 0.464
 SEISMIC DESIGN REQUIREMENTS ORDINARY REINFORCED AAC MASONRY SHEAR WALLS PER TABLE CC-7.3.2.1 TMS 402/602-16

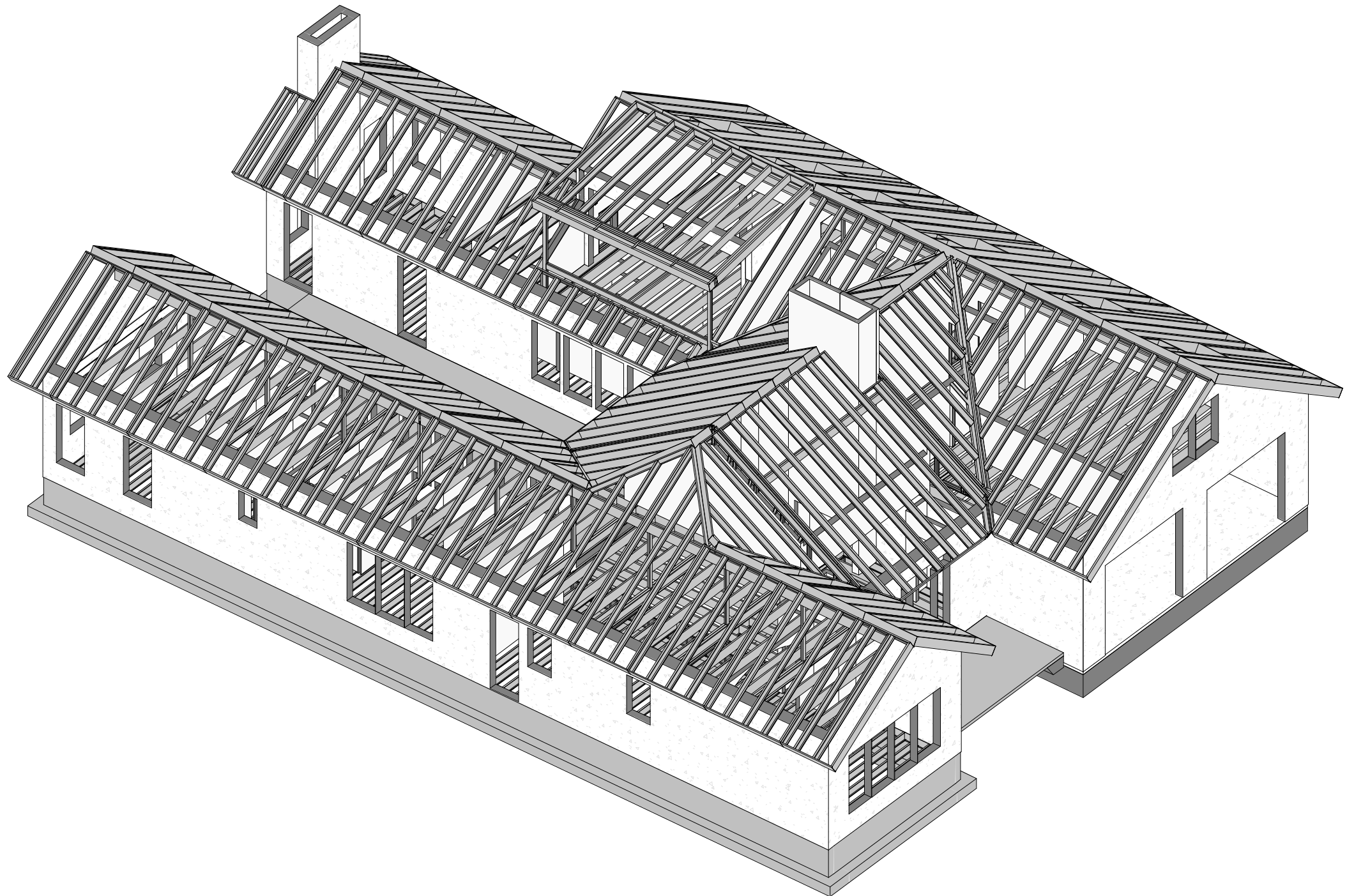
SOILS VALUES:
 BEARING PRESSURE: 1500 PSF (ASSUMED)

CODE /AUTHORITY:

- ALL WORK SHALL COMPLY WITH THE FOLLOWING:
 - 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
 - AISC 341-16 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS;
 - AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS;
 - ASW D 1.3 STRUCTURAL WELDING CODE - SHEET STEEL;
 - TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

SHEET LIST

NUMBER	NAME
S0	STRUCTURAL COVER SHEET
S1	FOUNDATION PLAN
S2	STRUCTURAL 1-ST FLOOR PLAN
S3	STRUCTURAL WALL OF THE 1-ST FLOOR PLAN
S4	STRUCTURAL 2ND FLOOR PLAN
S5	STRUCTURAL WALL OF THE 2-ND FLOOR PLAN
S6	STRUCTURAL ROOF BEAM PLAN
S7	STRUCTURAL ROOF PANEL PLAN
S8	STRUCTURAL SECTIONS
S9	STRUCTURAL SECTIONS
S10	STRUCTURAL SECTIONS
S11	STRUCTURAL SECTIONS
S12	STRUCTURAL SECTIONS
S13	STRUCTURAL SECTIONS
S14	STRUCTURAL DETAILS
S15	STRUCTURAL DETAILS
S16	STRUCTURAL DETAILS

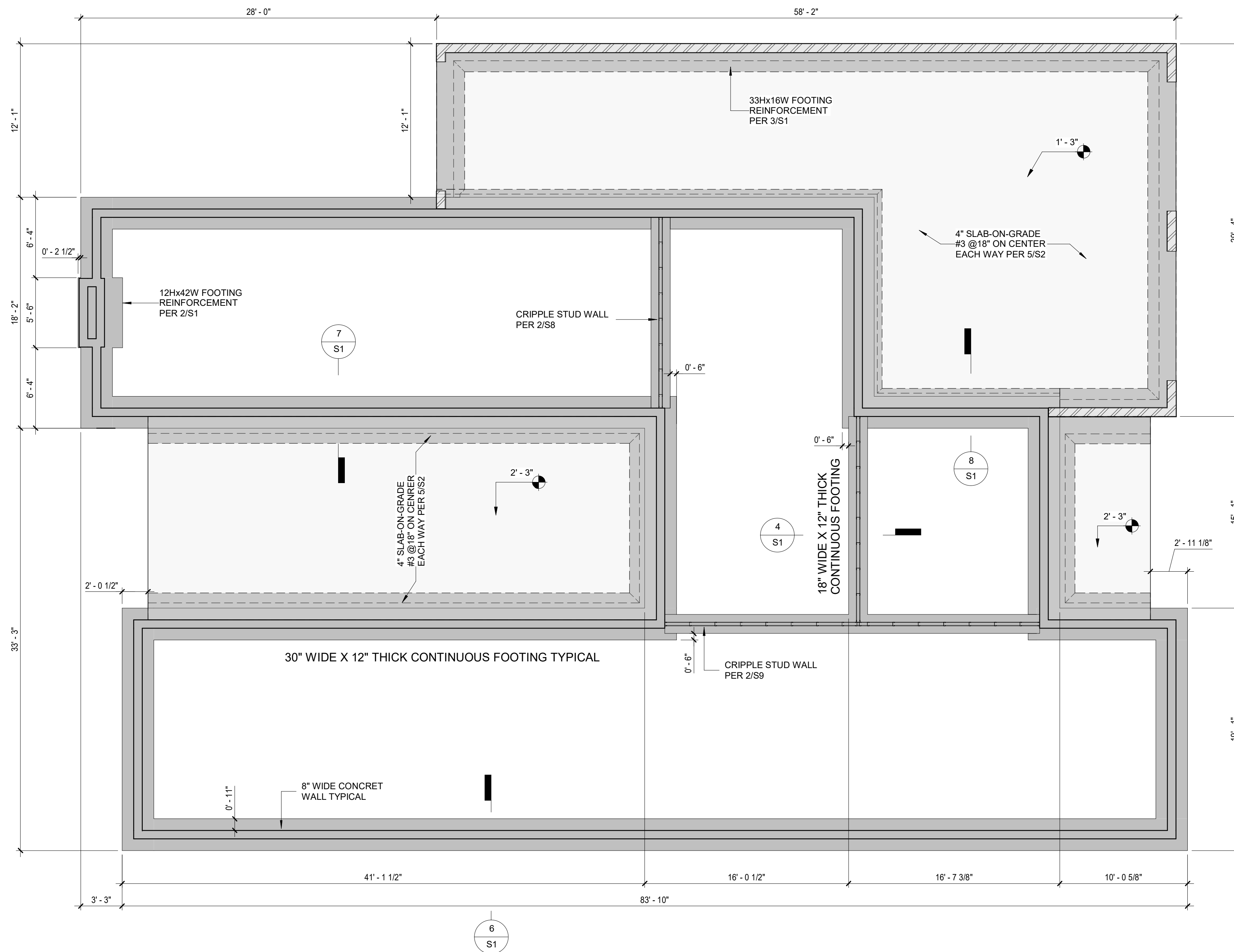


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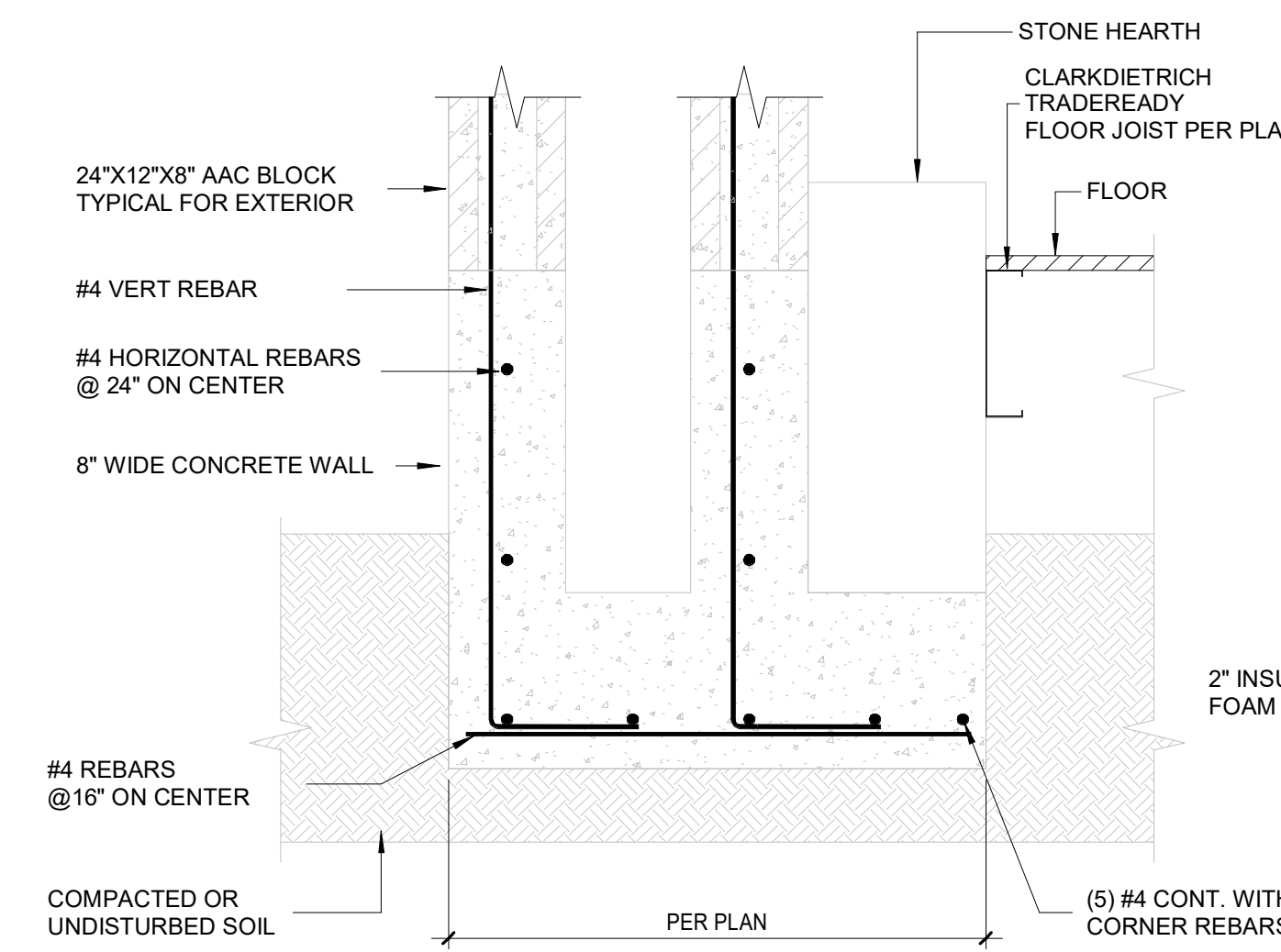
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SHEET NAME

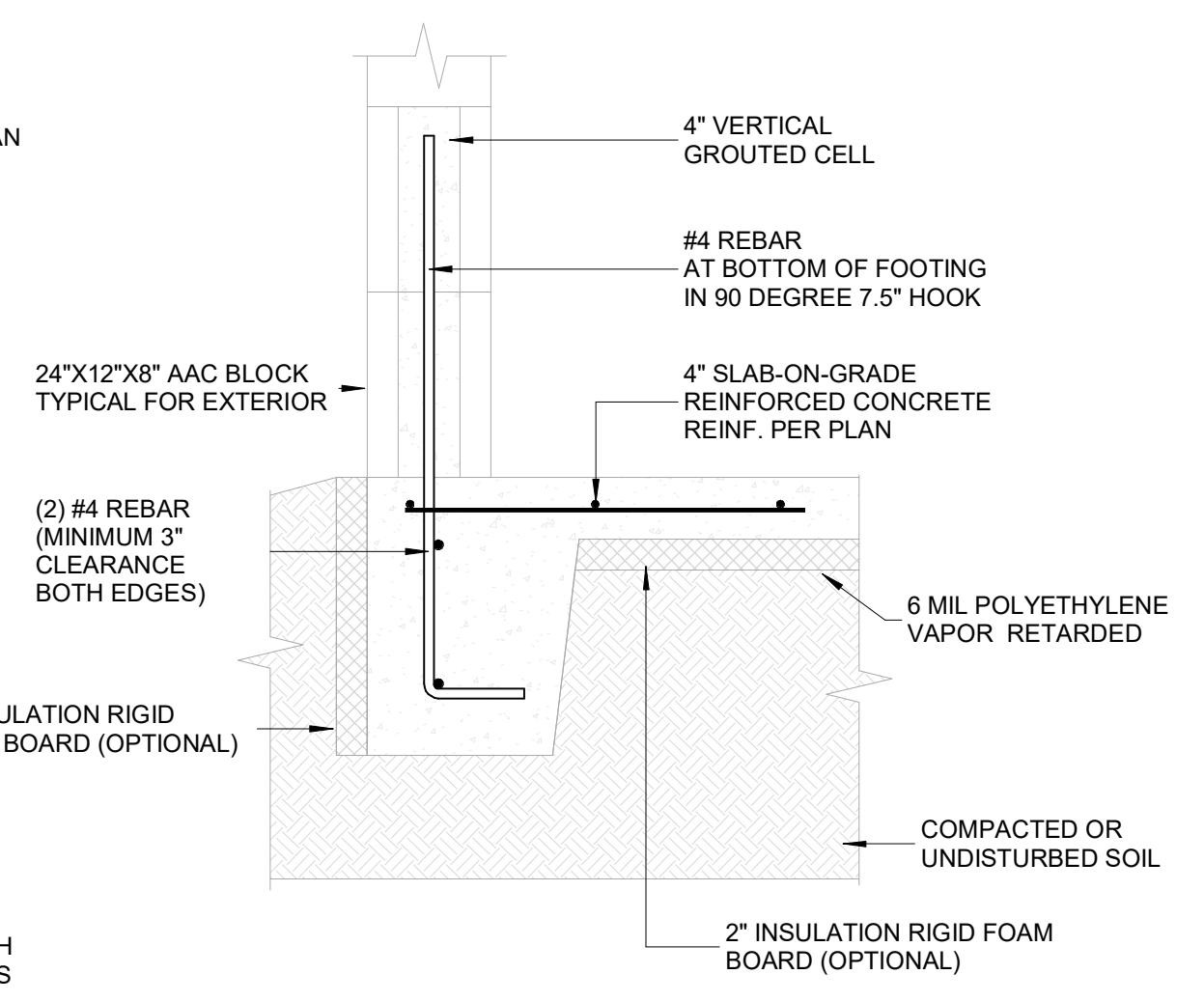
STRUCTURAL COVER SHEET



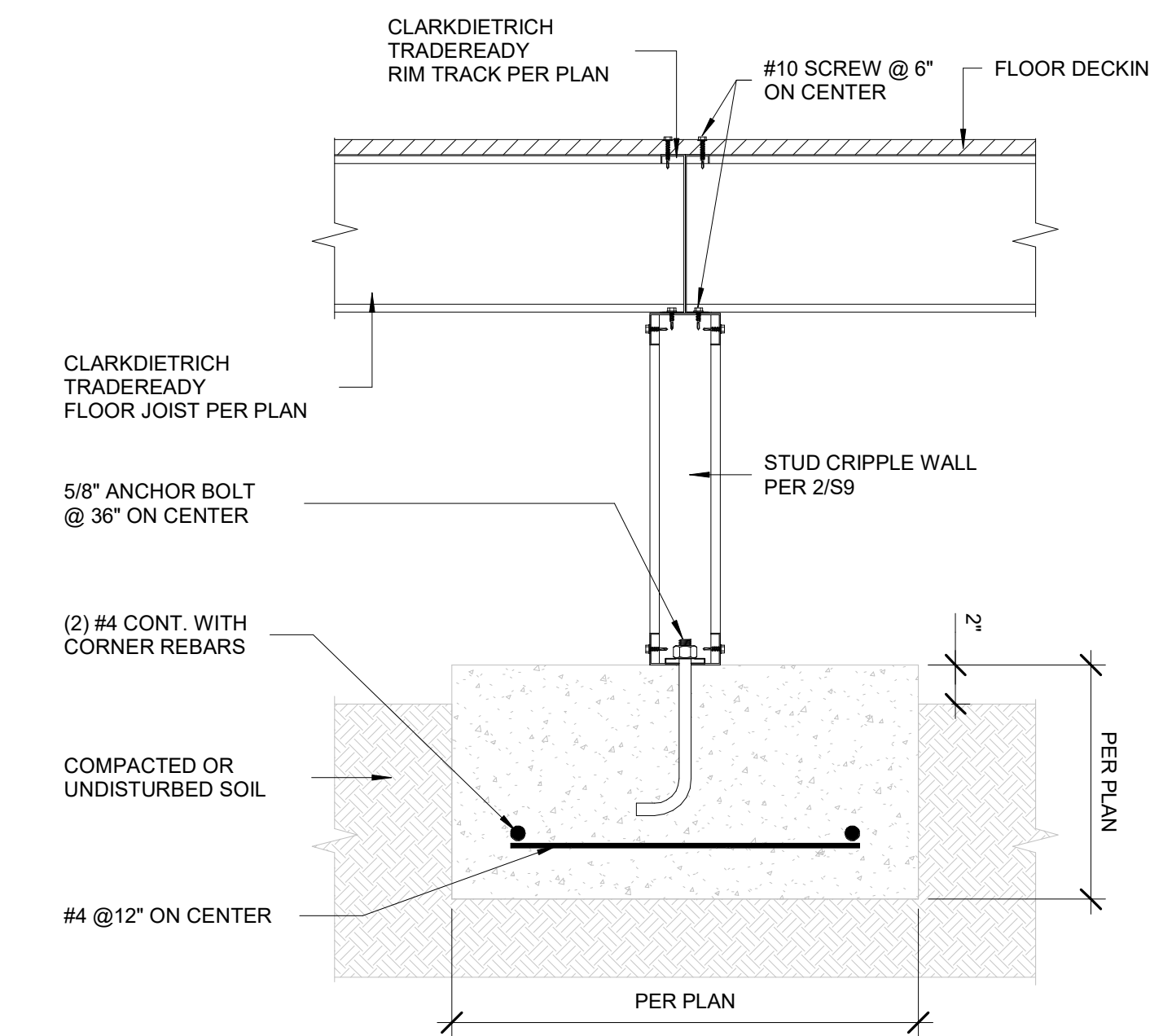
1 FOUNDATION PLAN
3/16" = 1'-0"



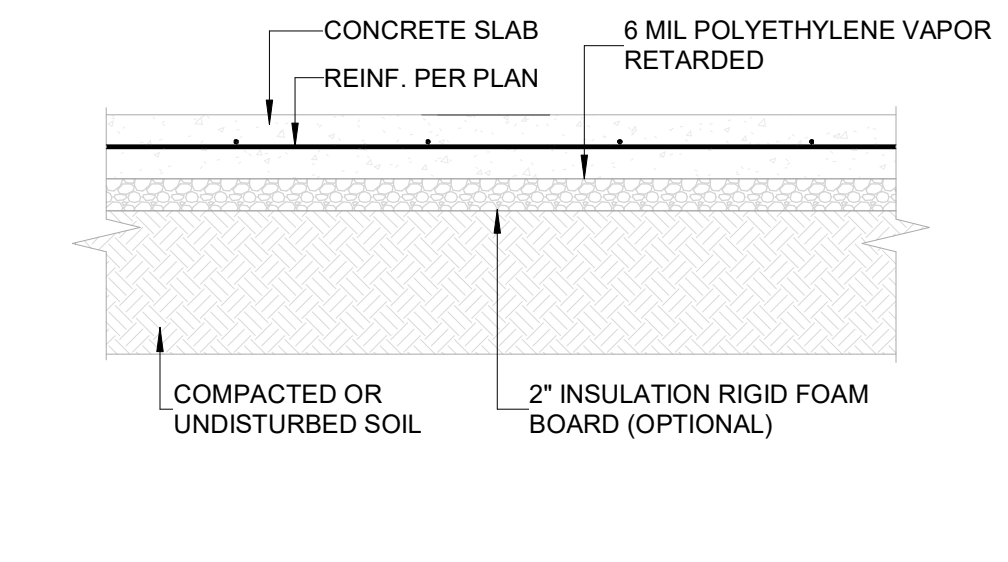
2 FIREPLACE FOUNDATION & WALL DETAIL TYPICAL
1" = 1'-0"



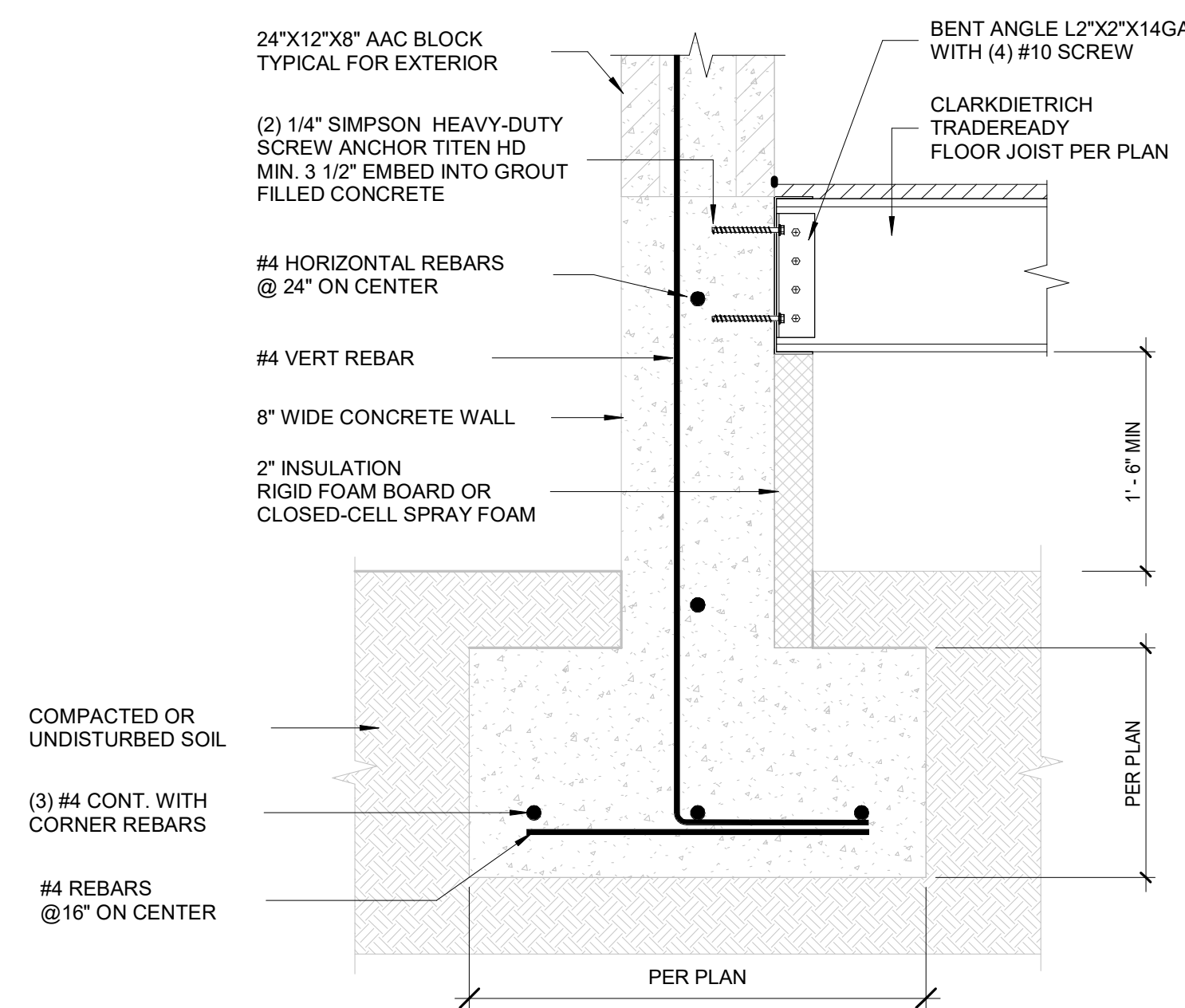
3 FOUNDATION & WALL DETAIL TYPICAL
1" = 1'-0"



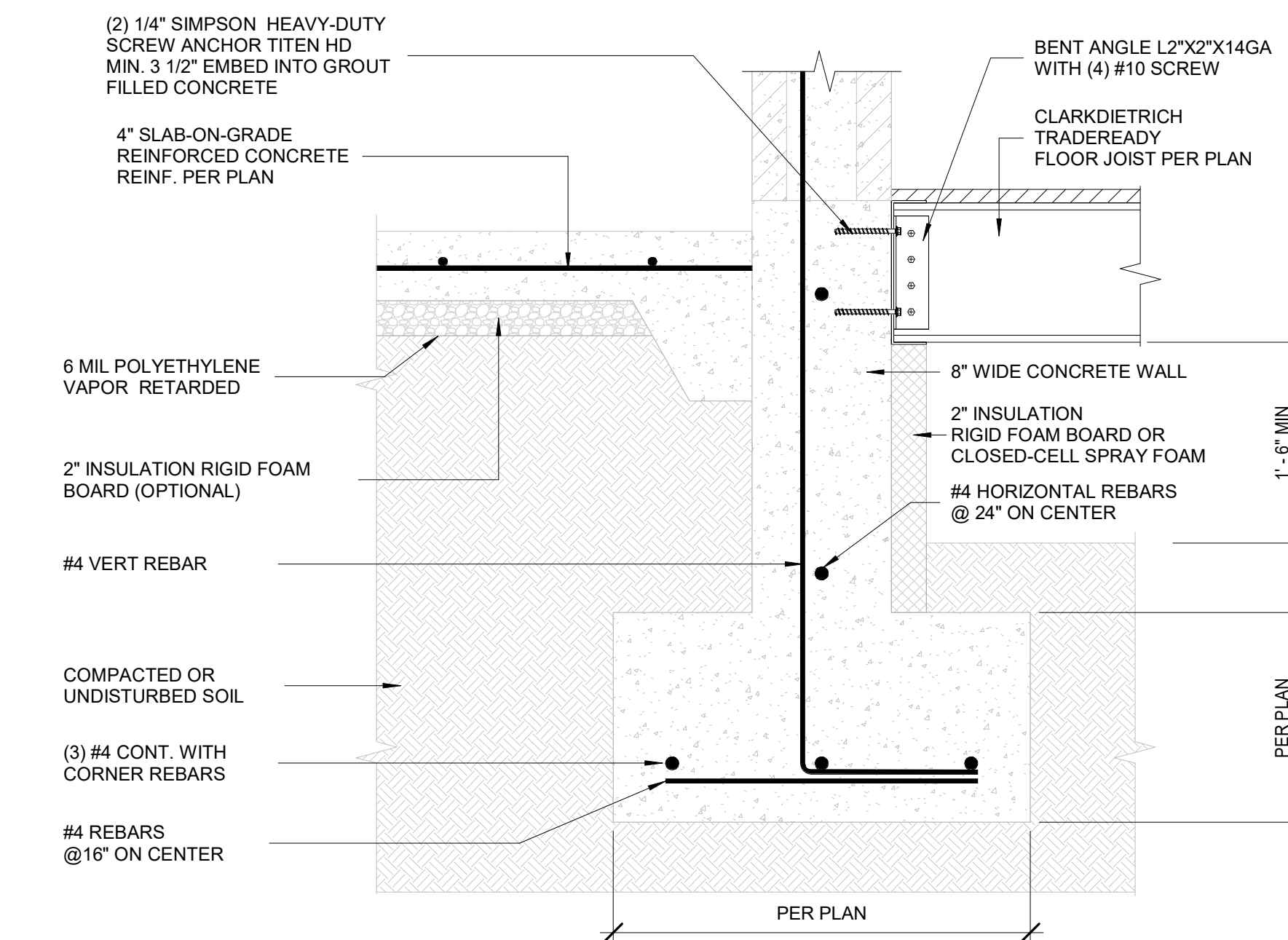
4 STUD TO JOIST CONNECTION DETAIL
1 1/2" = 1'-0"



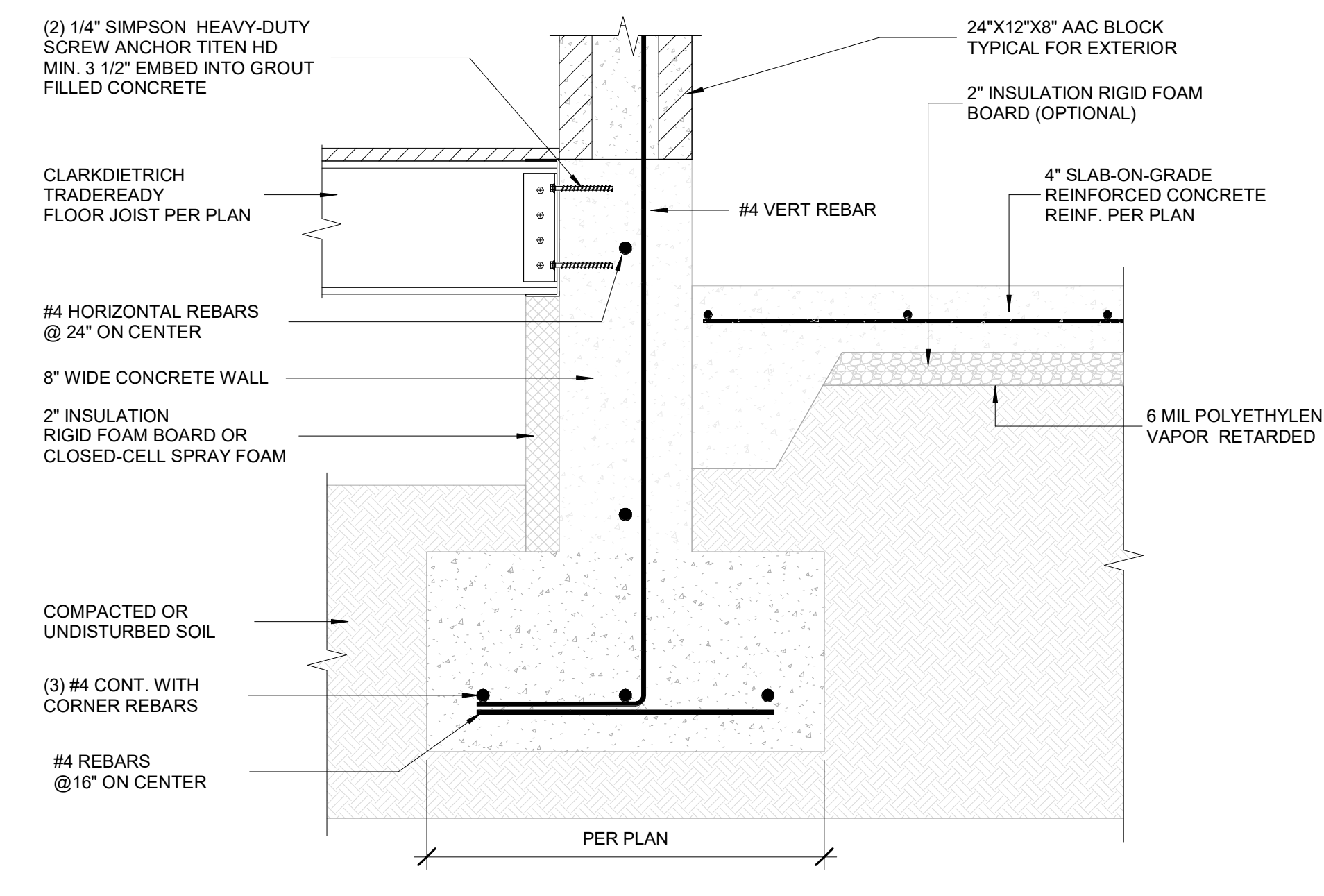
5 SLAB-ON-GRADE DETAIL
1" = 1'-0"



6 FOUNDATION EXTERIOR WALL DETAIL TYPICAL
1 1/2" = 1'-0"



7 FOUNDATION & WALL DETAIL TYPICAL
1 1/2" = 1'-0"



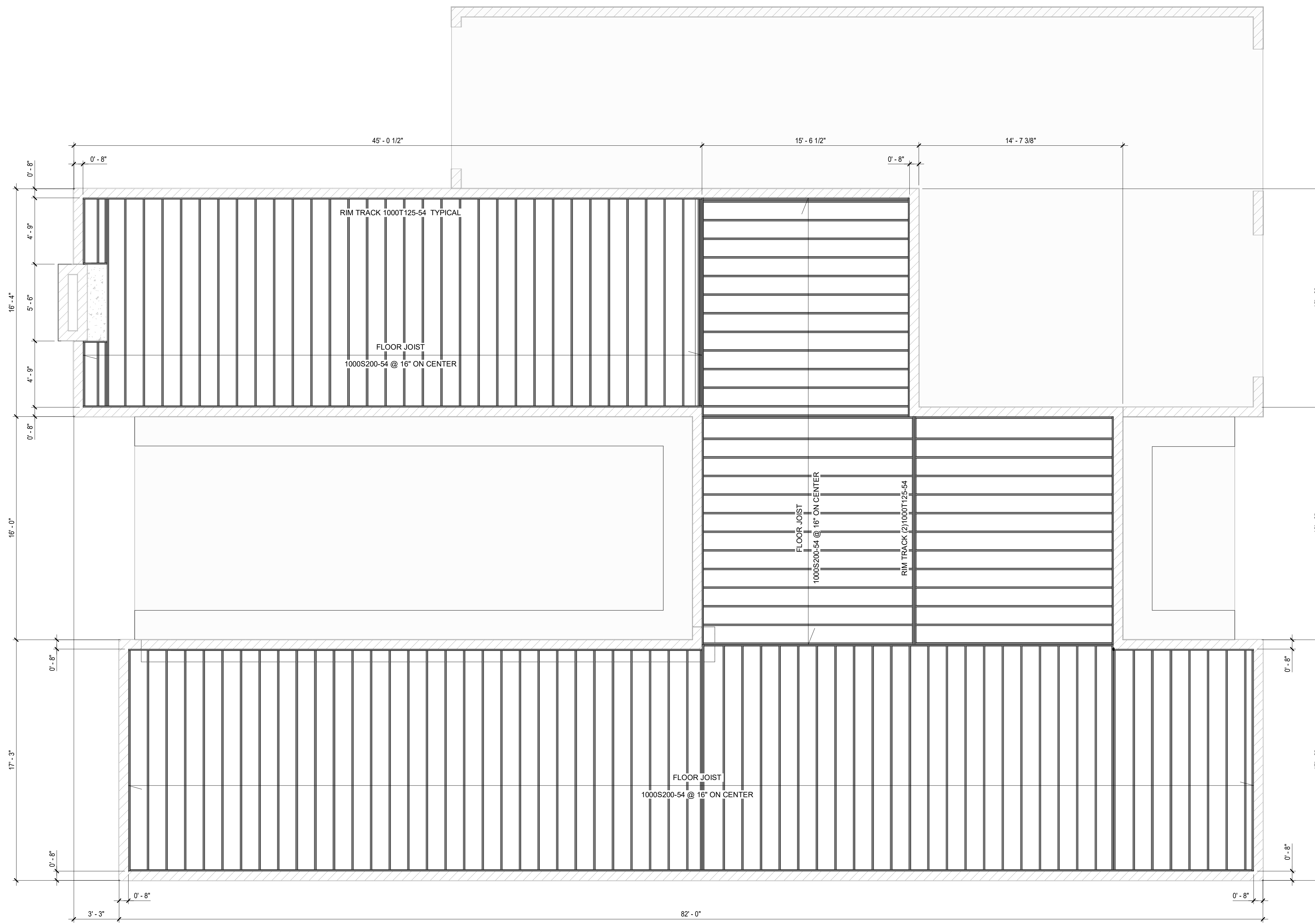
8 FOUNDATION EXTERIOR WALL DETAIL TYPICAL
1 1/2" = 1'-0"

SHEET NUMBER

S1

SHEET NAME

FOUNDATION PLAN



1 STRUCTURAL 1-ST FLOOR PLAN
1/4" = 1'-0"

SHEET NUMBER

S2

SHEET NAME

**STRUCTURAL
1-ST FLOOR
PLAN**

FLOOR FRAMING NOTE:

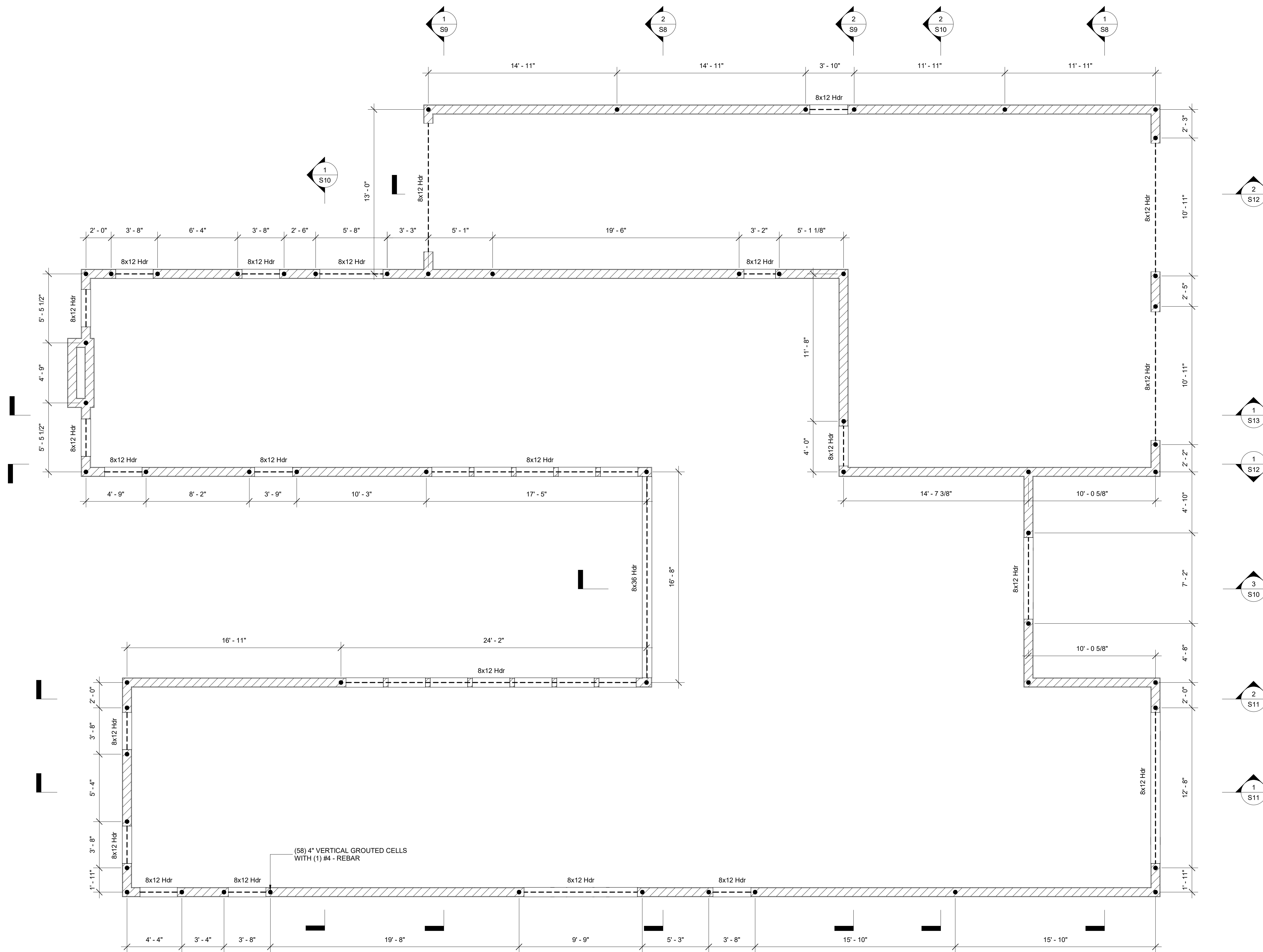
1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY

HEADER SCHEDULE

Concrete Headers (per Structural plan)

See General Notes & Specifications for additional requirements and material specifications.

All dimensions per Architectural plans



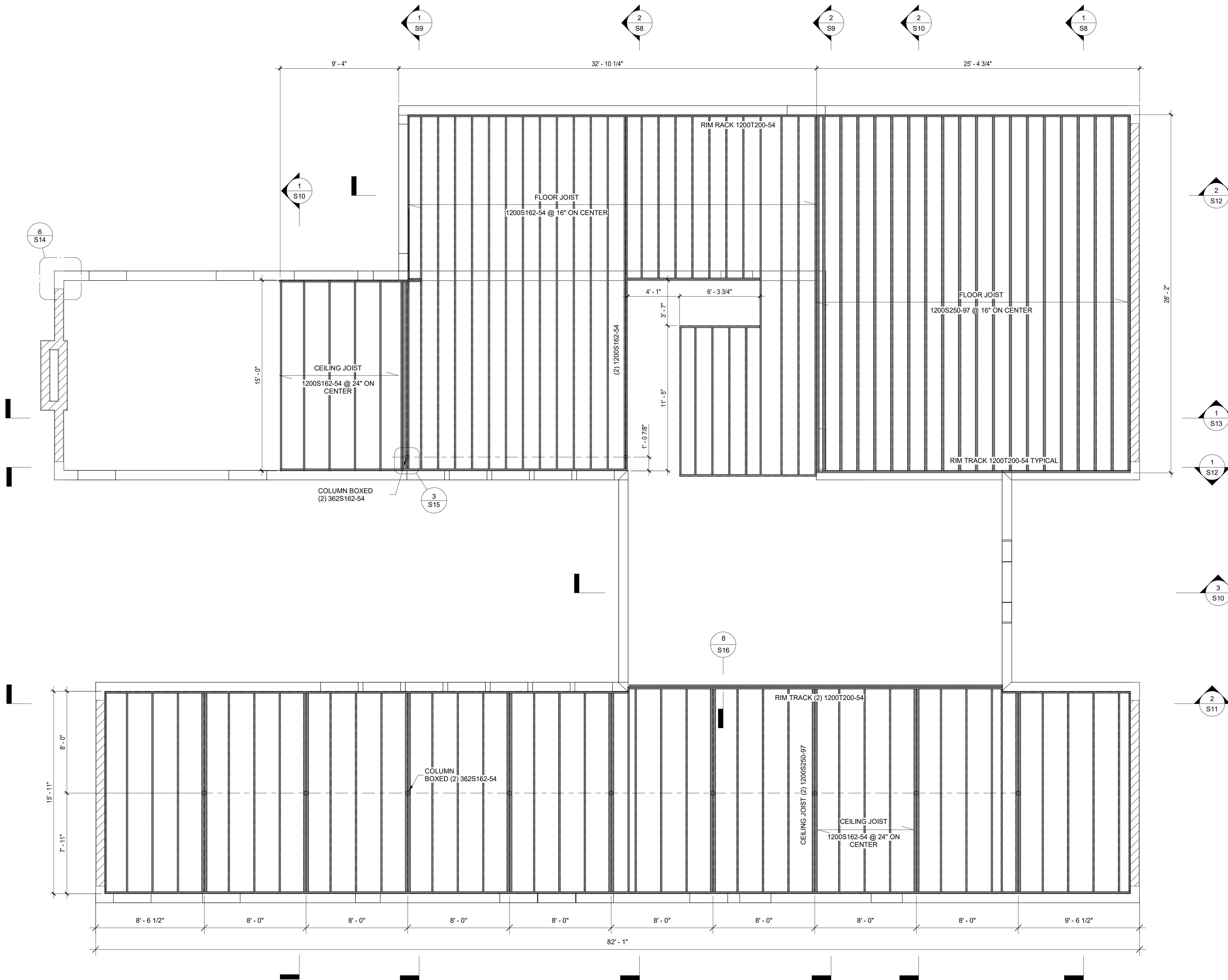
1 WALL REINFORCEMENT PLAN
1/4" = 1'-0"

SHEET NUMBER

S3

SHEET NAME

STRUCTURAL
WALL OF THE
1-ST FLOOR
PLAN



1 MEZZANINE FLOOR FRAMING PLAN
 1/4" = 1'-0"

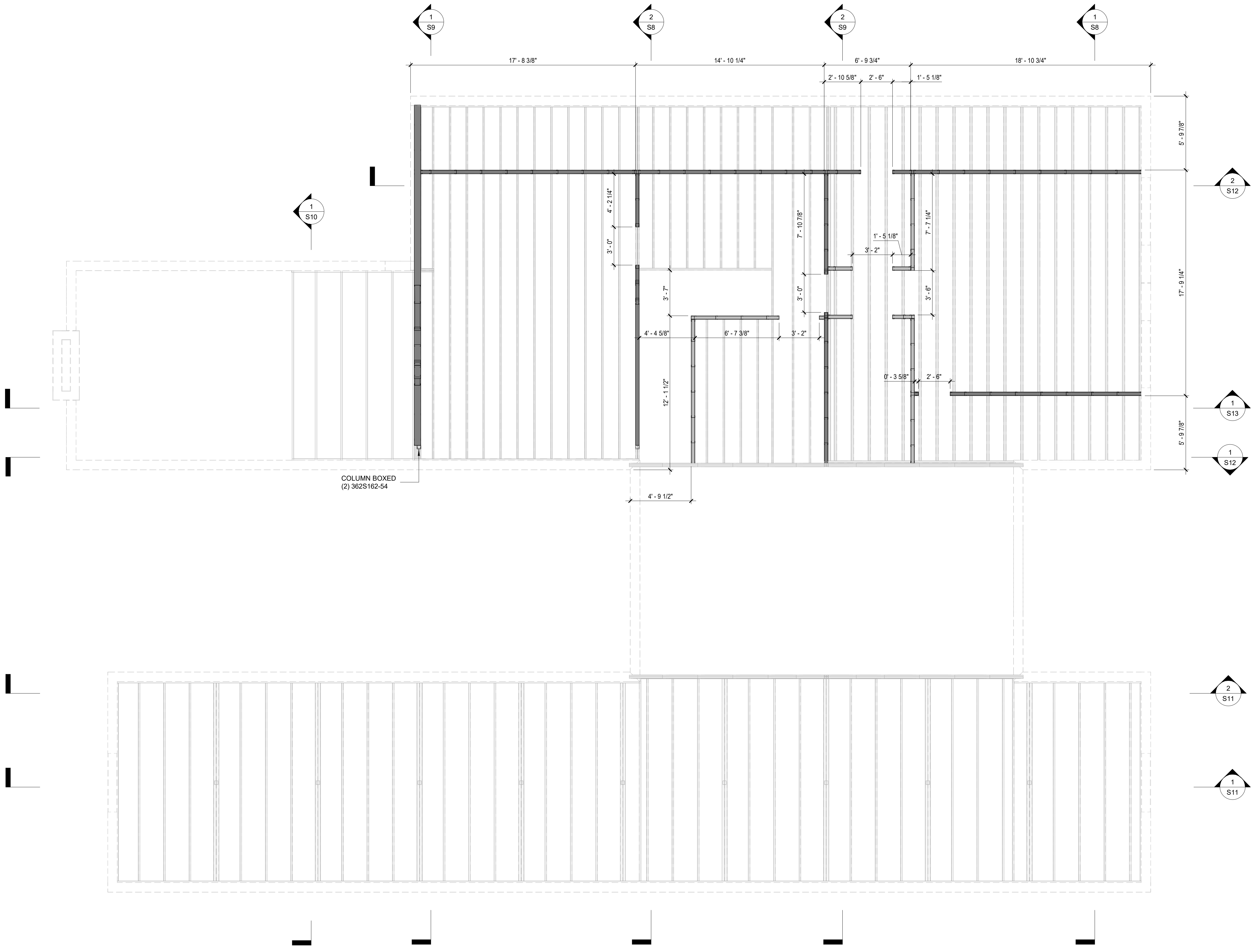
SHEET NUMBER

S4

SHEET NAME

**STRUCTURAL
 2-ND FLOOR
 PLAN**

FLOOR & CEILING FRAMING NOTE:
 1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
 FLOOR JOIST & TRADEREADY



COLUMN BOXED
(2) 362S162-54

1 SECOND FLOOR WALL FRAMING PLAN
1/4" = 1'-0"

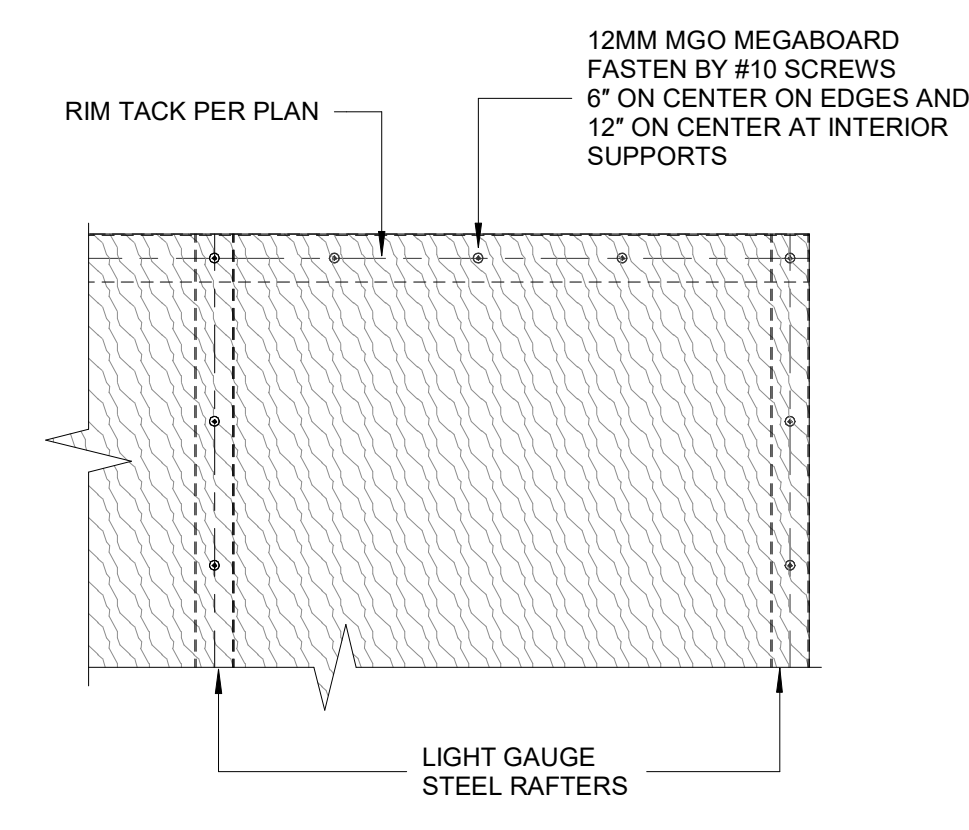
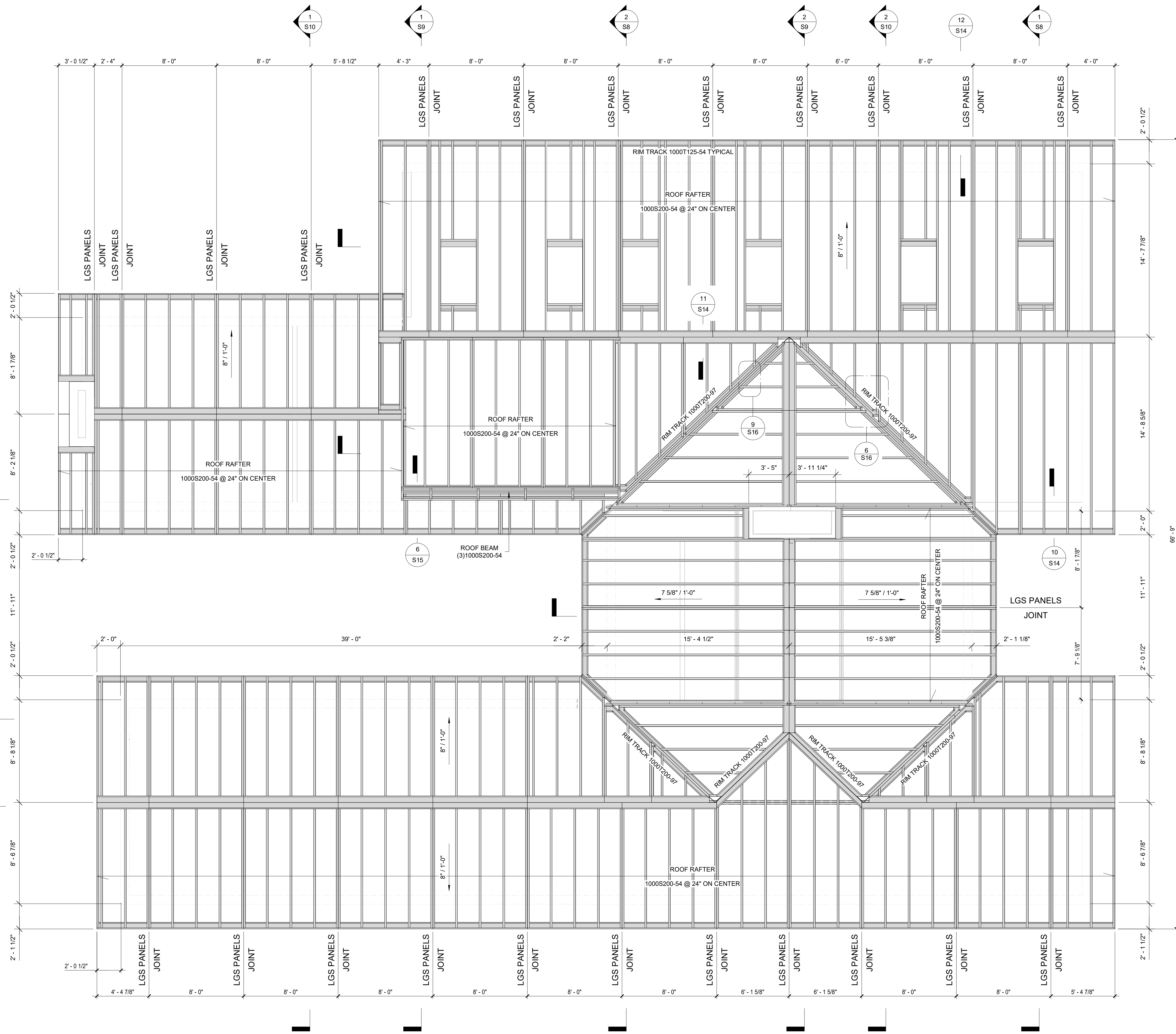
WALL SCHEDULE	
Stud wall locations per Shop Drawings.	
Exterior Struc. Cold-Formed Steel Stud Wall SSMA 600S162-54 (50 ksi) Studs @ 24" ON CENTER	
Interior Struc. Cold-Formed Steel Stud Wall SSMA 362S162-54 (50 ksi) Studs @ 24" ON CENTER	
Interior Non-Struc. Cold-Formed Steel Stud Wall SSMA 362S162-33 (33 ksi) Studs @ 24" ON CENTER	
See General Notes & Specifications for additional requirements and material specifications.	

SHEET NUMBER

S5

SHEET NAME

**STRUCTURAL
WALL OF THE
2-ND FLOOR
PLAN**



2 ROOF SHEATHING DETAIL
1 1/2" = 1'-0"

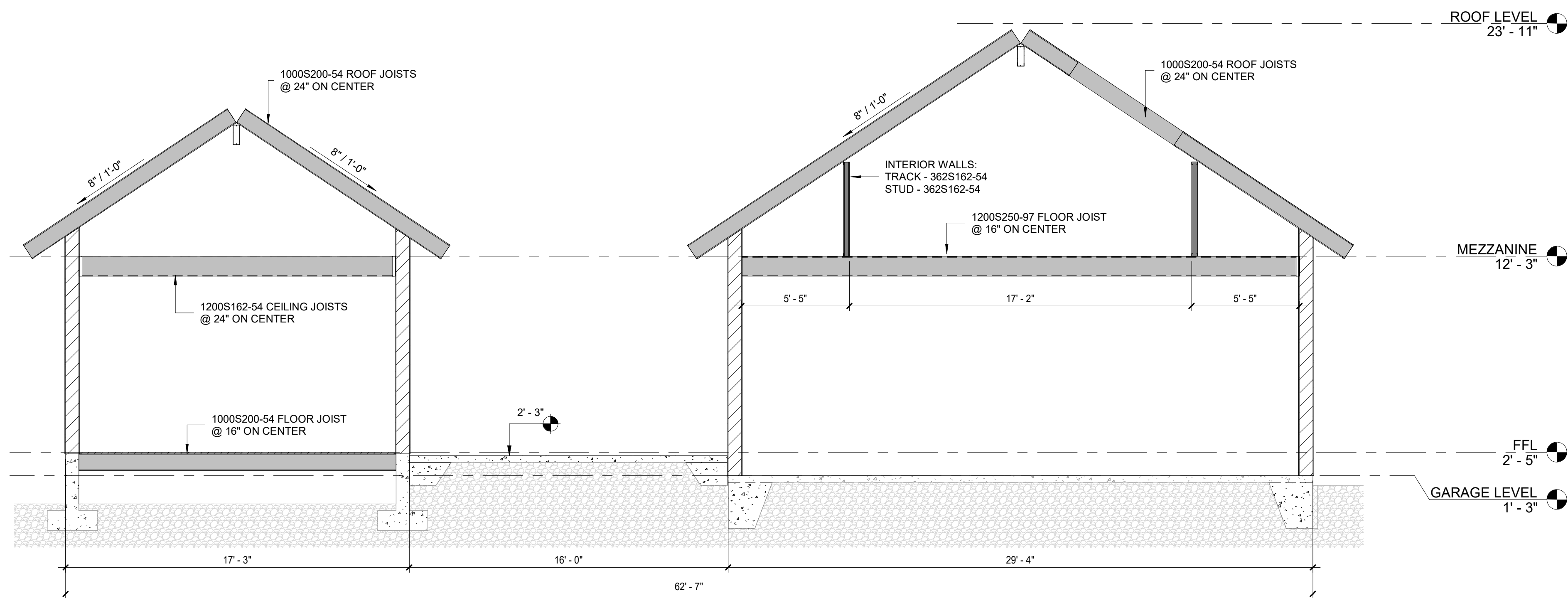
1 STRUCTURAL ROOF PANEL FRAMING PLAN
1/4" = 1'-0"

SHEET NUMBER

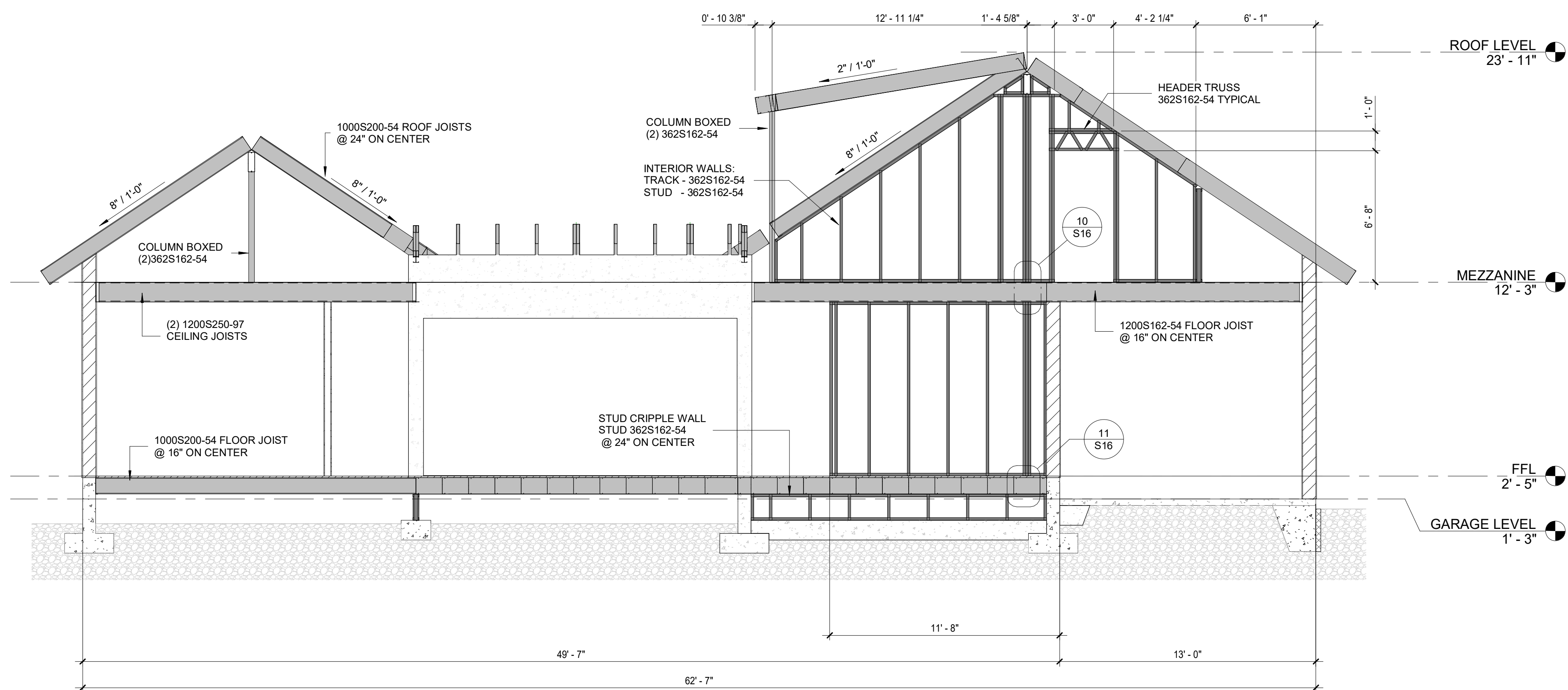
S7

SHEET NAME

**STRUCTURAL
ROOF PANEL
PLAN**



1 STRUCTURAL SECTION
1/4" = 1'-0"



2 STRUCTURAL SECTION
1/4" = 1'-0"

SHEET NUMBER

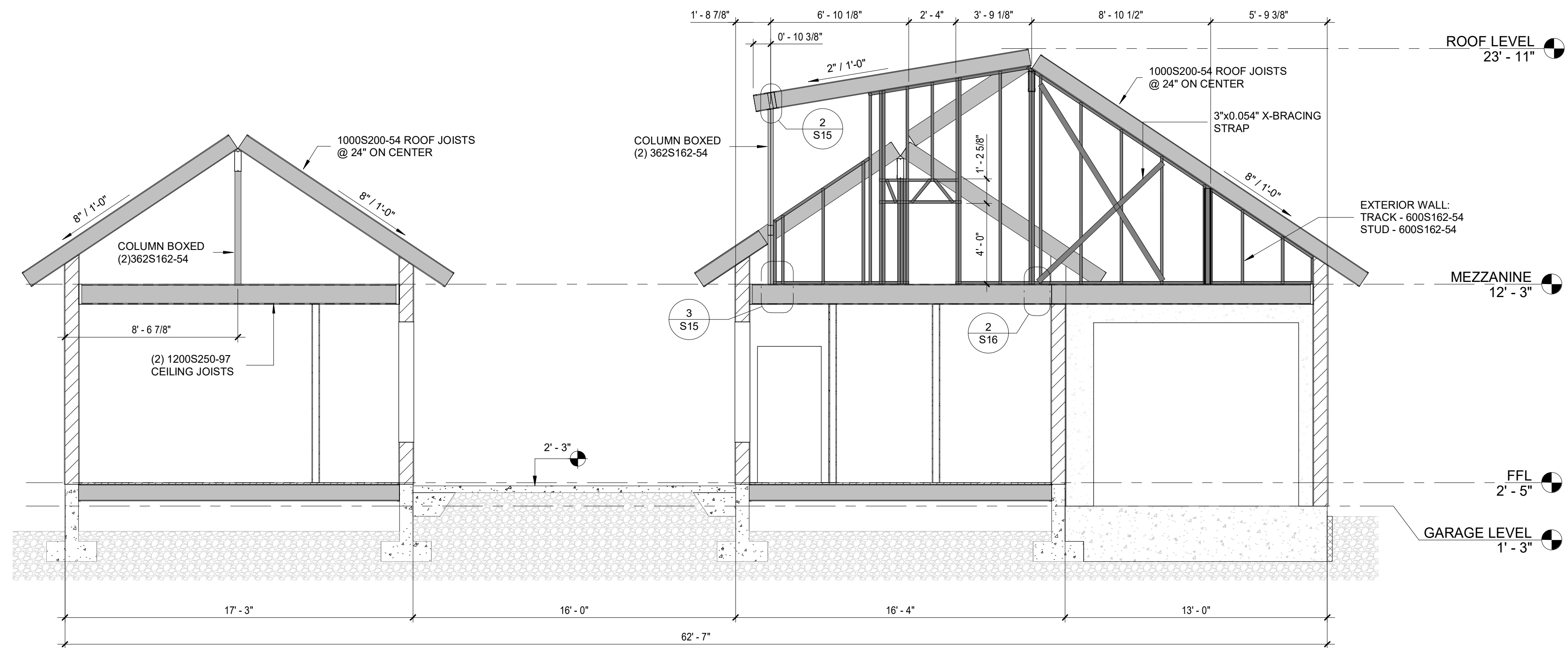
S8

SHEET NAME

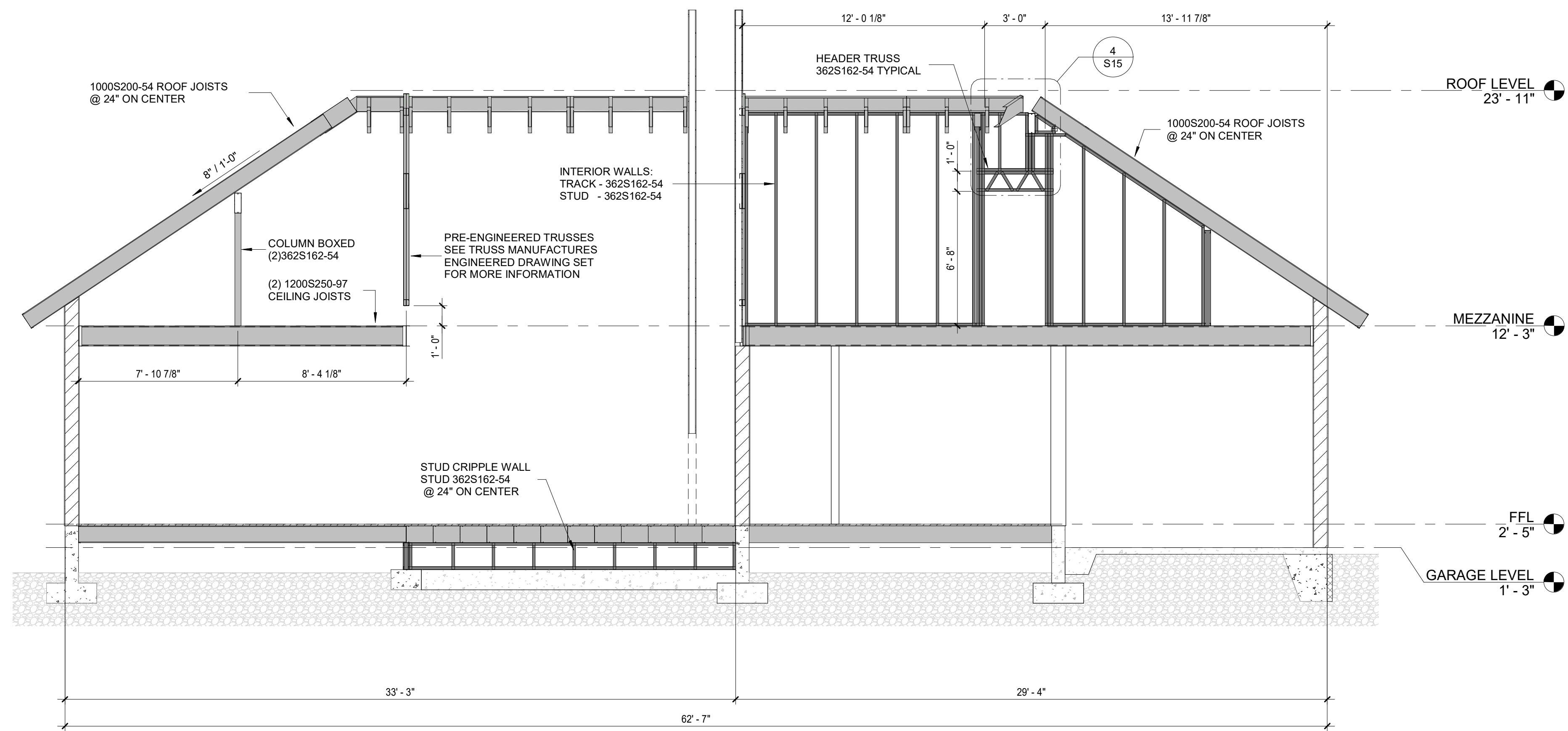
**STRUCTURAL
SECTIONS**

FLOOR & CEILING FRAMING NOTE:

1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY



1 STRUCTURAL SECTION
1/4" = 1'-0"



2 STRUCTURAL SECTION
1/4" = 1'-0"

SHEET NUMBER

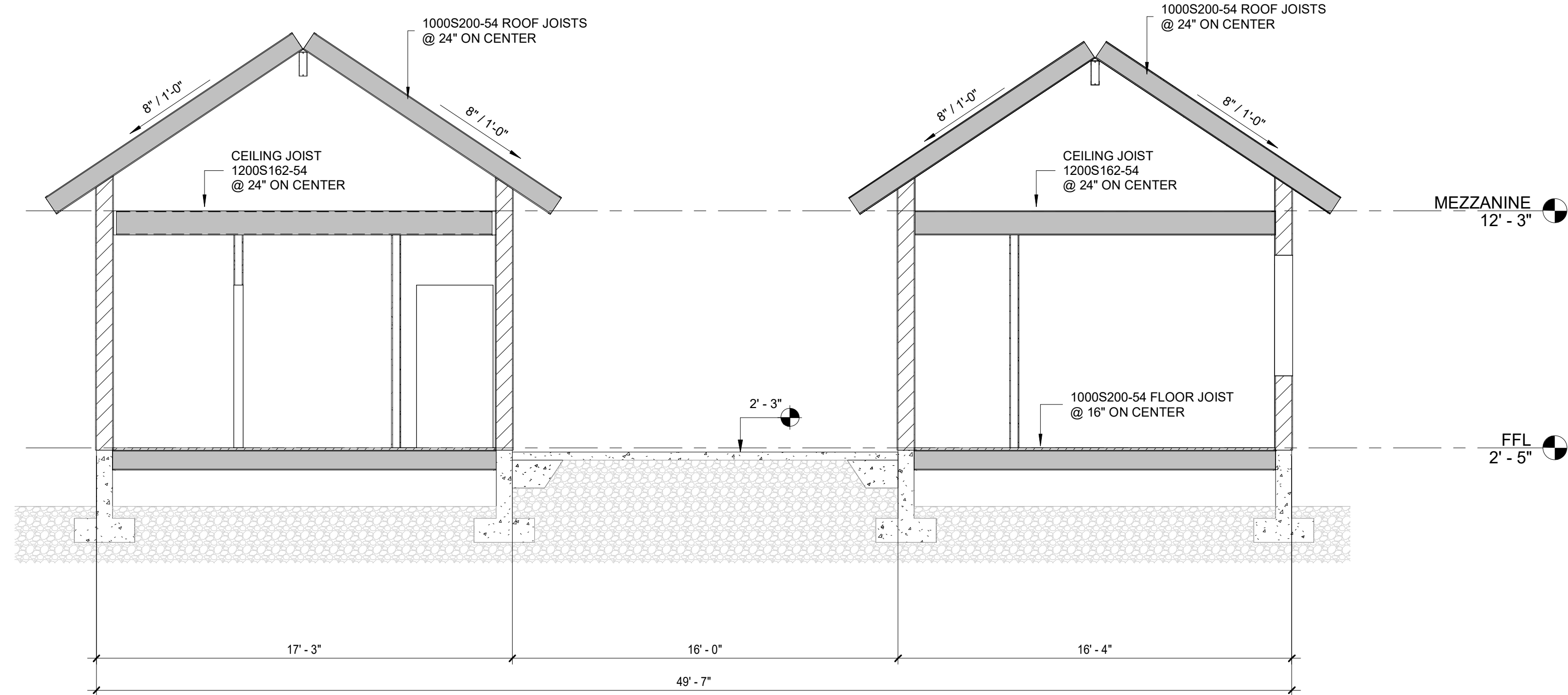
S9

SHEET NAME

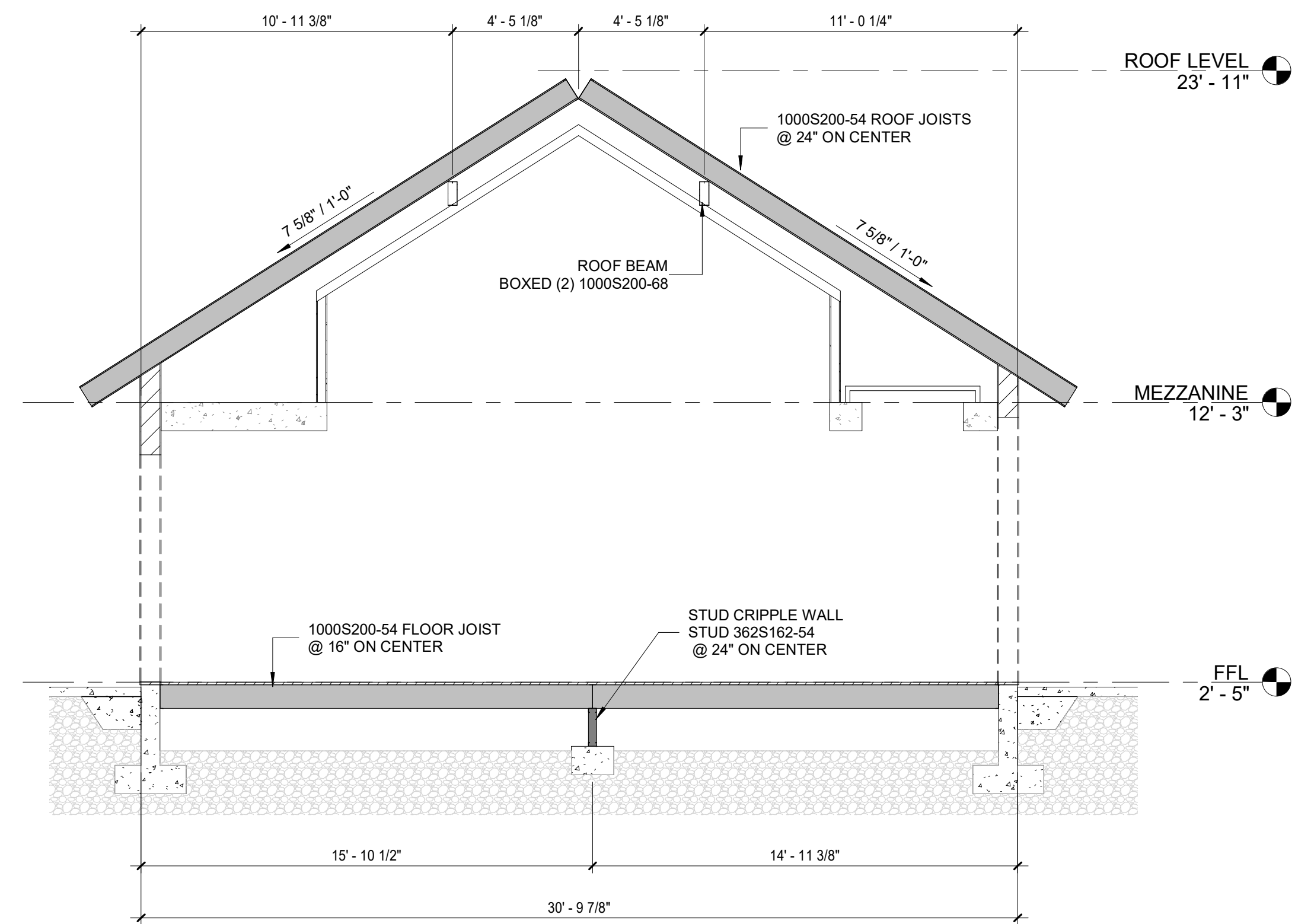
**STRUCTURAL
SECTIONS**

FLOOR & CEILING FRAMING NOTE:

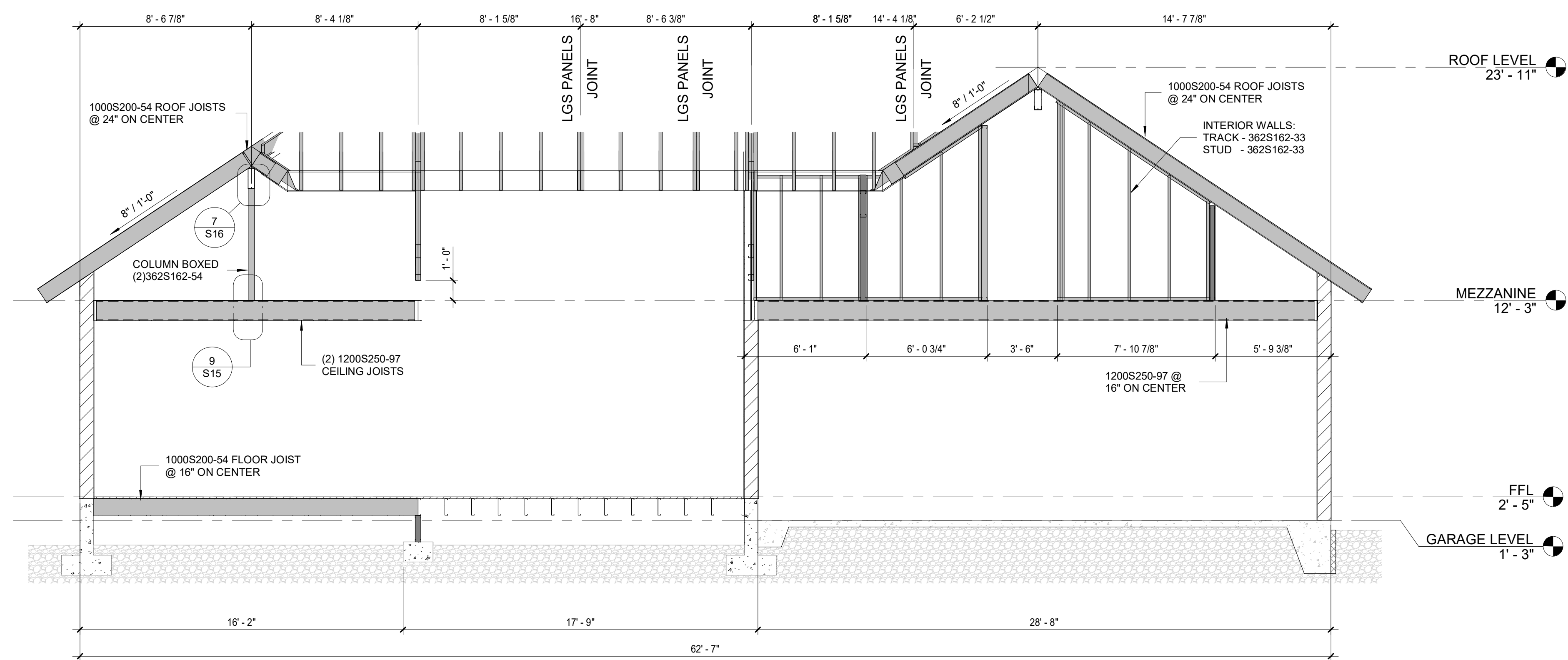
1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY



1 STRUCTURAL SECTION
1/4" = 1'-0"



3 STRUCTURAL SECTION
1/4" = 1'-0"



2 STRUCTURAL SECTION
1/4" = 1'-0"

SHEET NUMBER

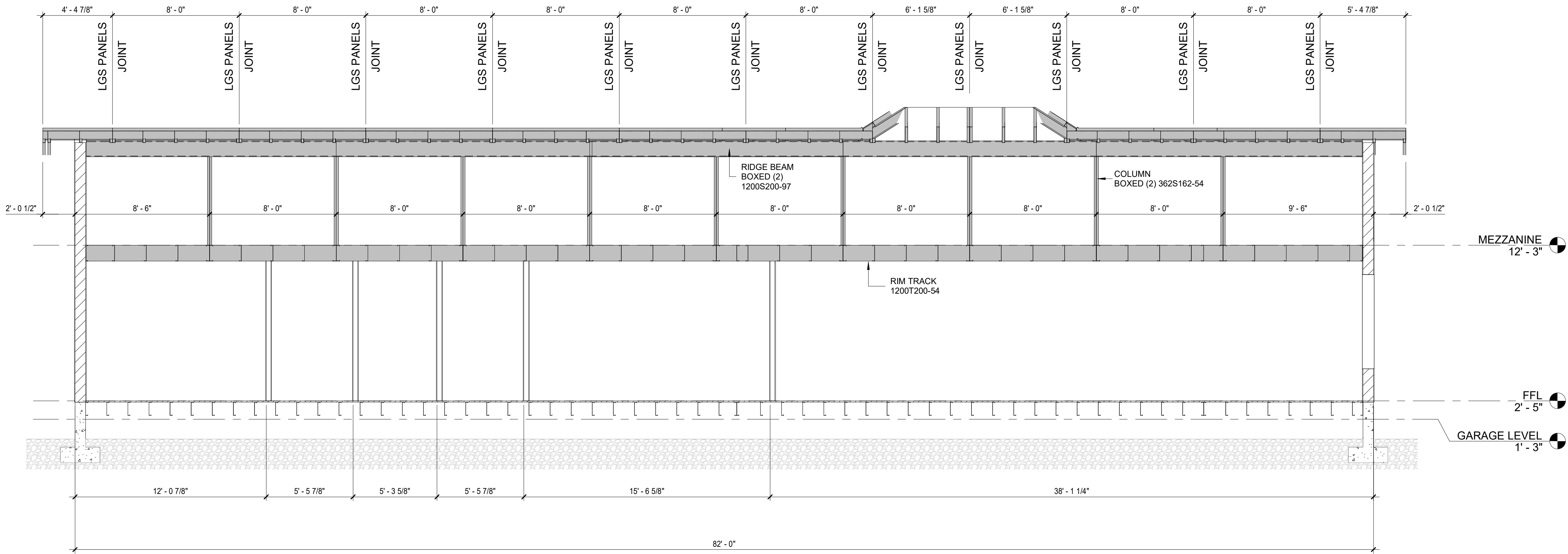
S10

SHEET NAME

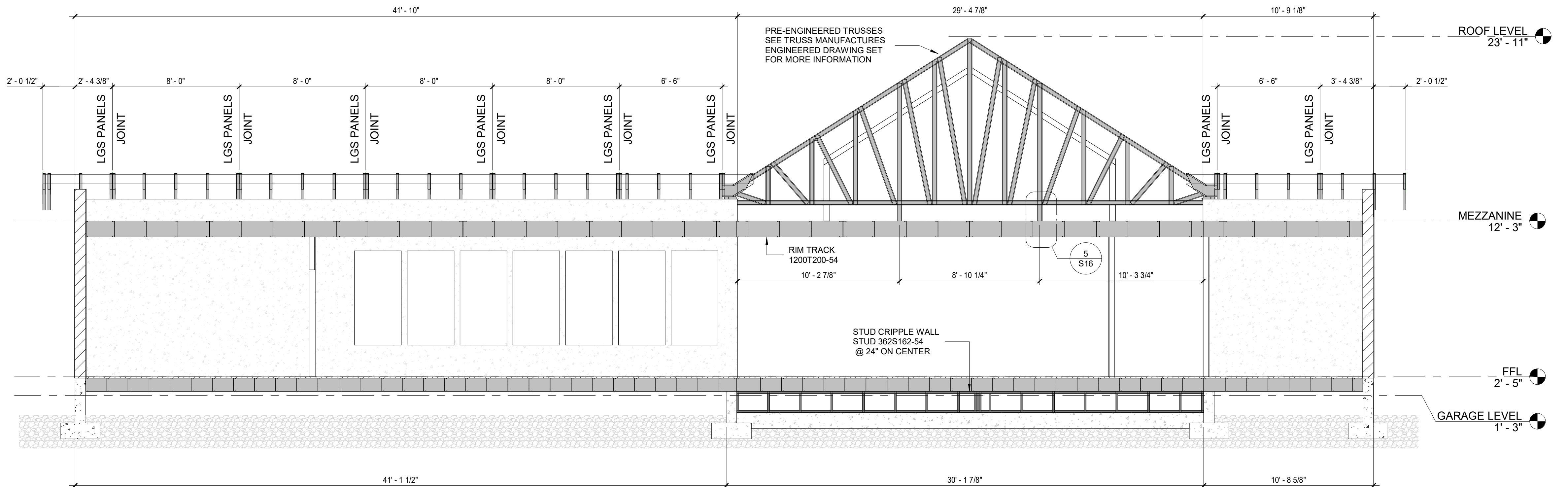
**STRUCTURAL
SECTIONS**

FLOOR & CEILING FRAMING NOTE:

1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY



1 STRUCTURAL SECTION
1/4" = 1'-0"



2 STRUCTURAL SECTION
1/4" = 1'-0"

SHEET NUMBER

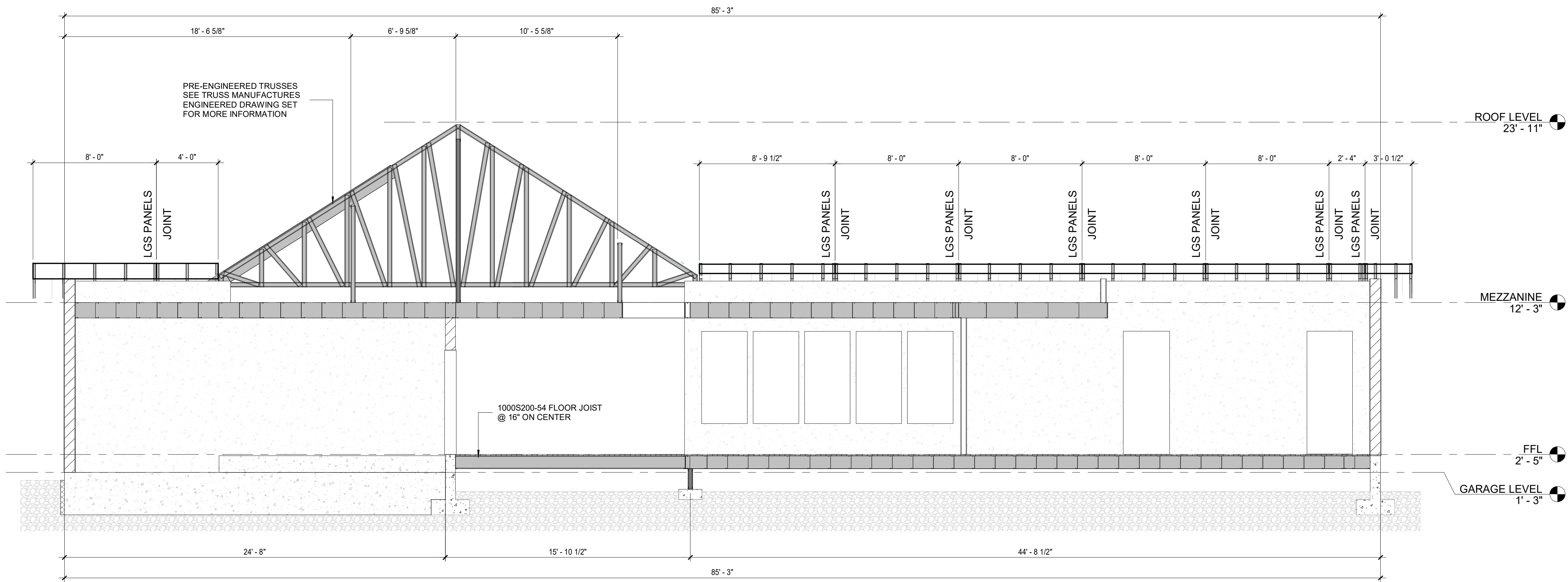
S11

SHEET NAME

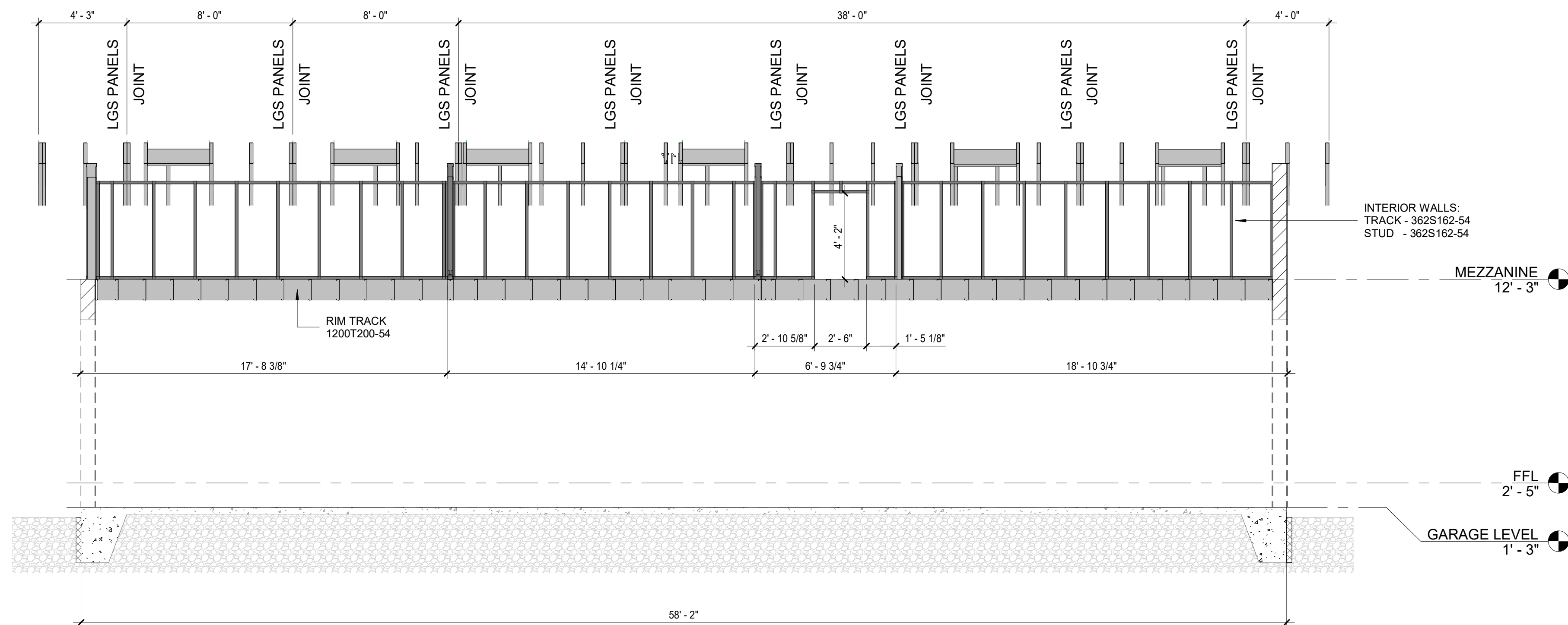
STRUCTURAL SECTIONS

FLOOR & CEILING FRAMING NOTE:

1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH FLOOR JOIST & TRADEREADY



1 STRUCTURAL SECTION
1/4" = 1'-0"



2 STRUCTURAL SECTION
1/4" = 1'-0"

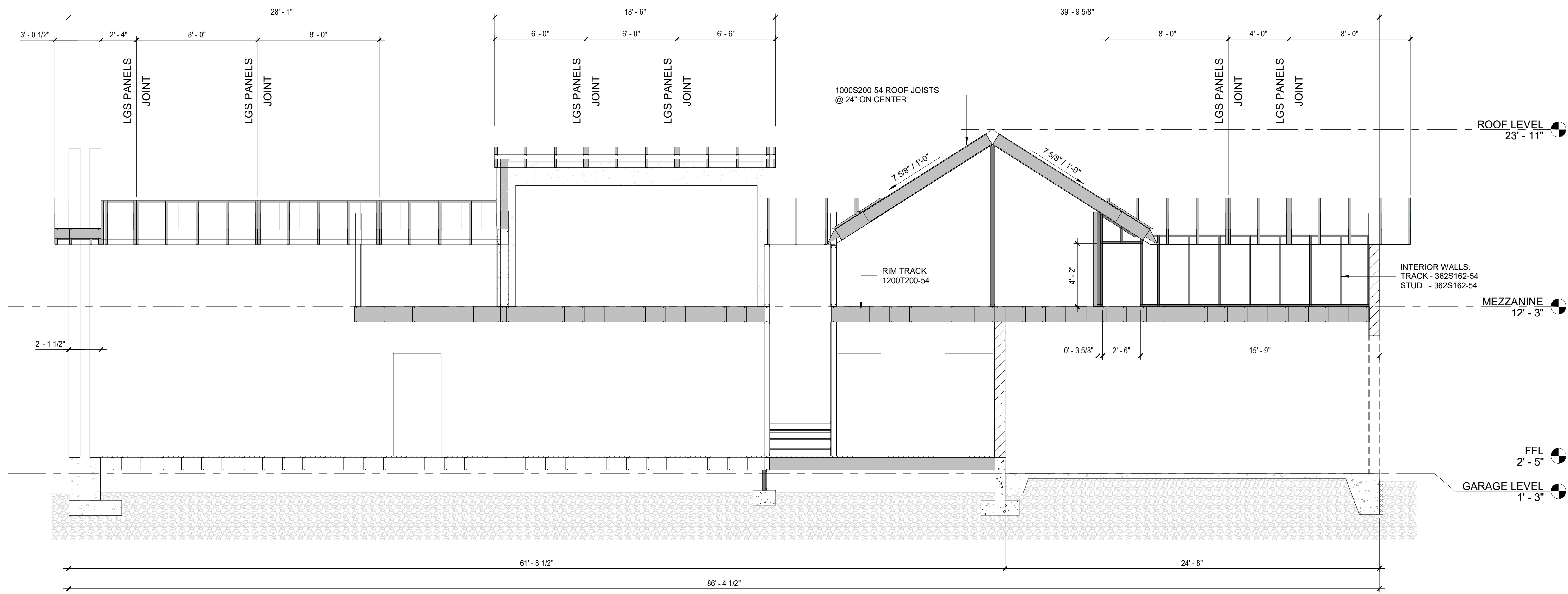
SHEET NUMBER

S12

SHEET NAME

**STRUCTURAL
SECTIONS**

FLOOR & CEILING FRAMING NOTE:
1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY



① STRUCTURAL SECTION
1/4" = 1'-0"

SHEET NUMBER

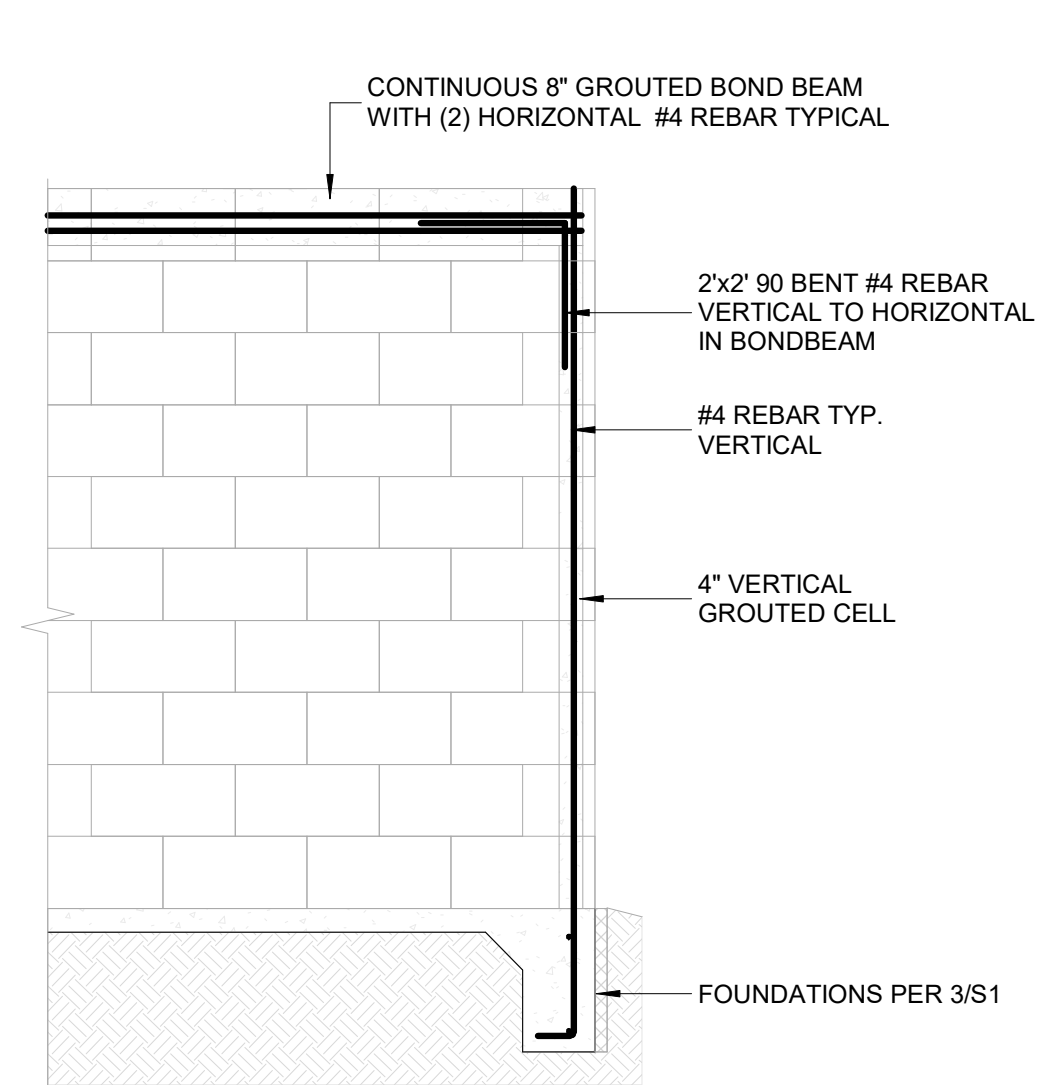
S13

SHEET NAME

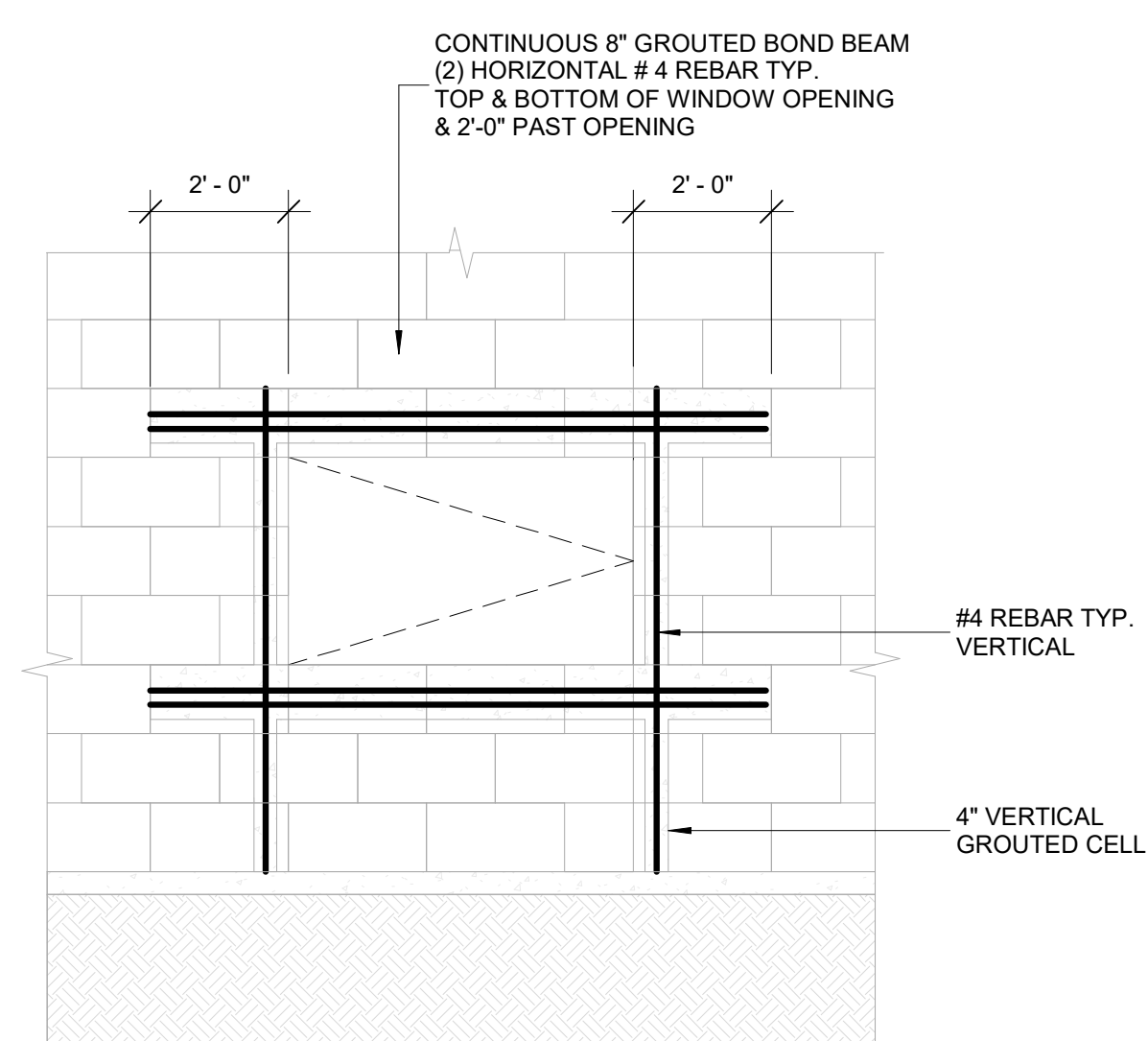
**STRUCTURAL
SECTIONS**

FLOOR & CEILING FRAMING NOTE:

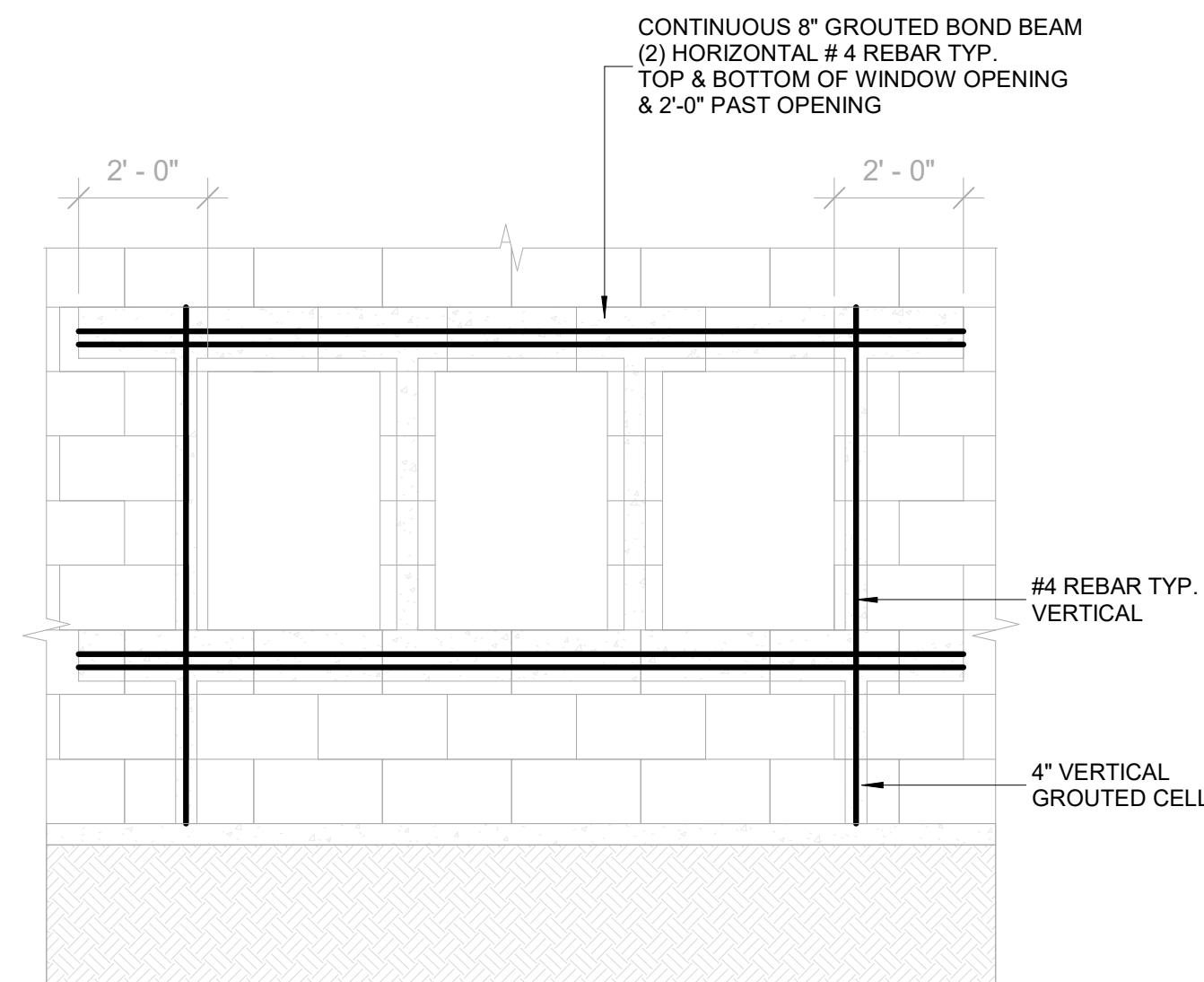
1-ST & 2-ND STOREY FLOOR FRAMING CLARKDIETRICH
FLOOR JOIST & TRADEREADY



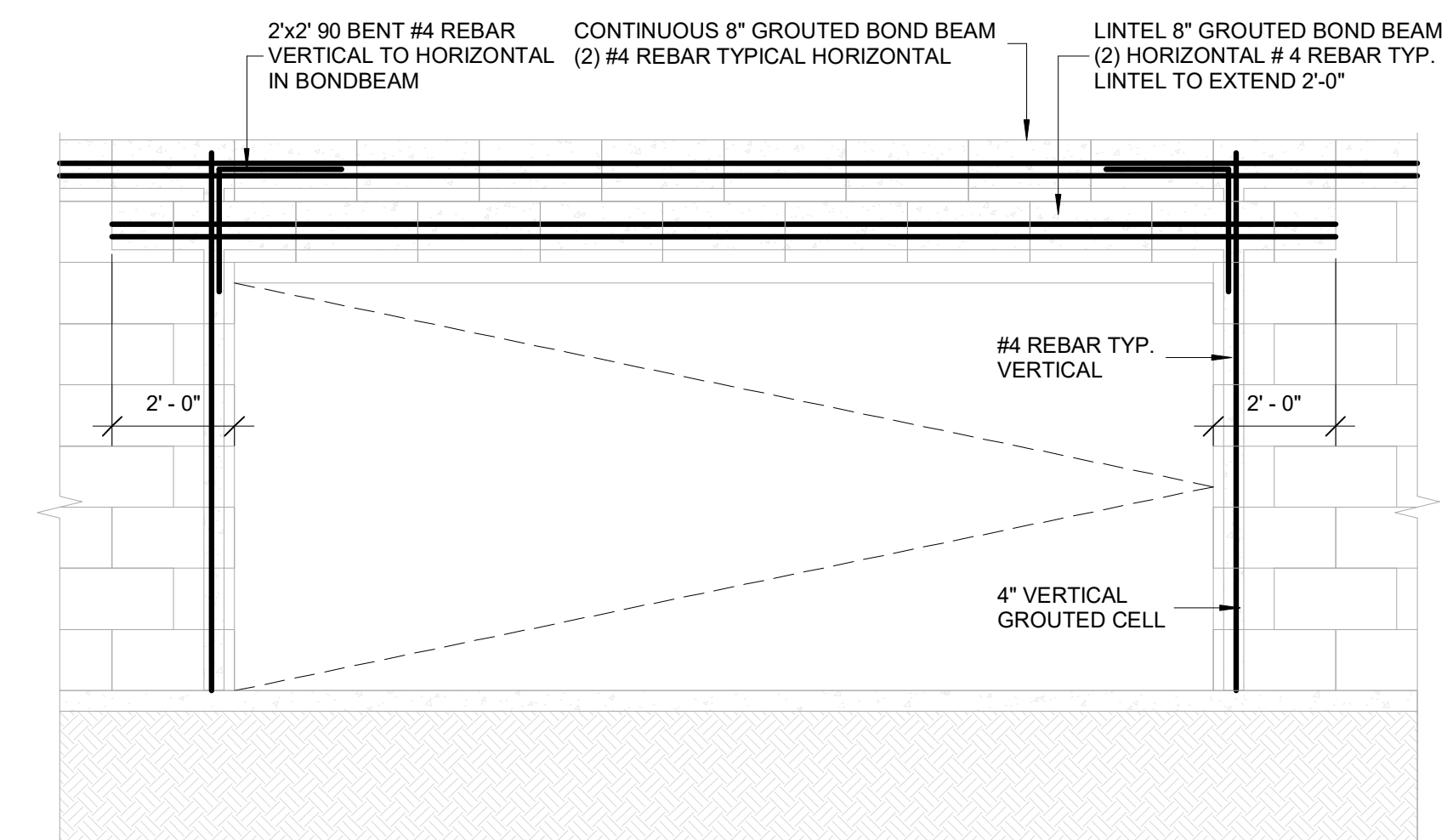
① AAC WALL
3/8" = 1'-0"



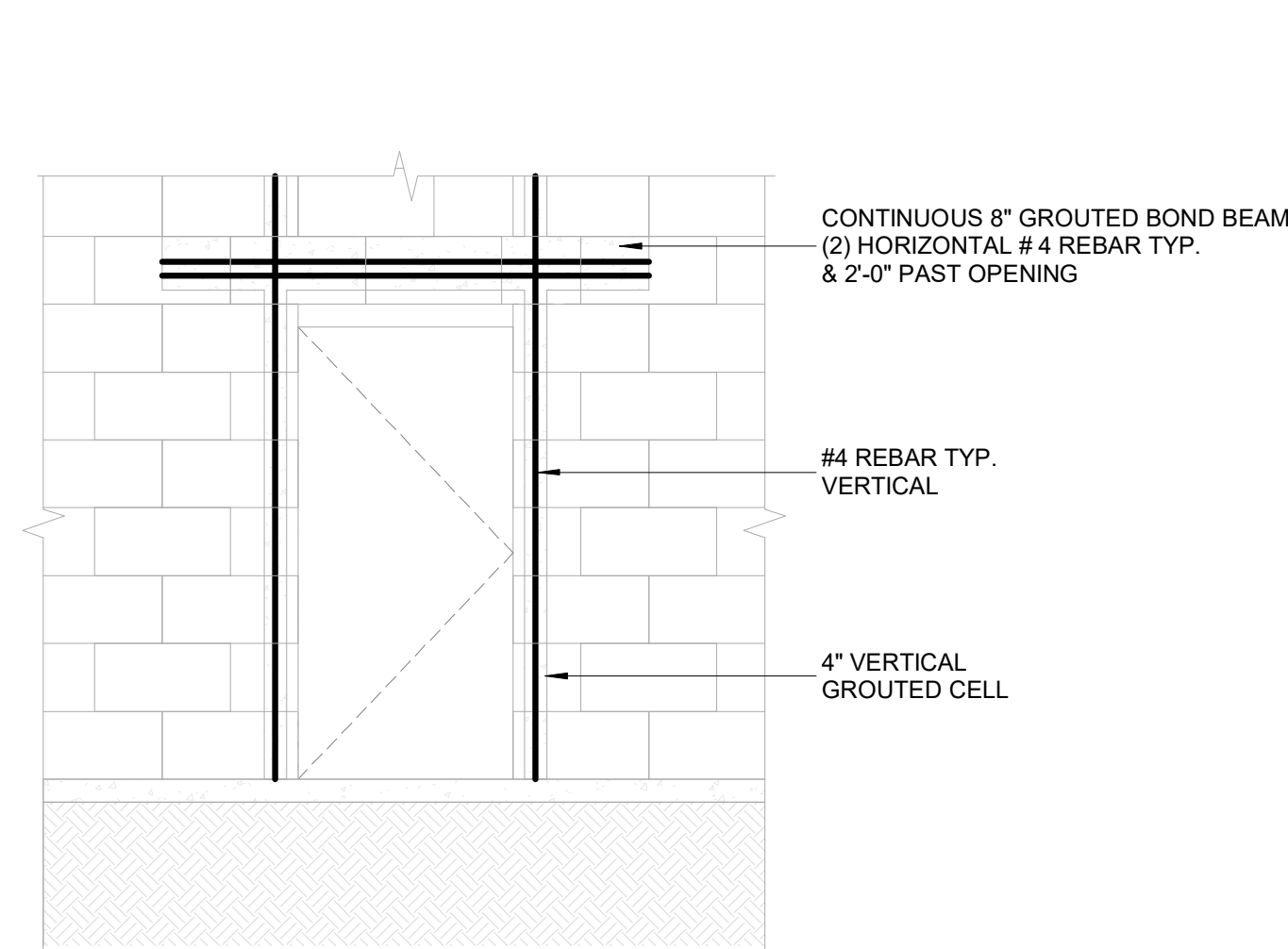
② SINGLE WINDOW OPENING
3/8" = 1'-0"



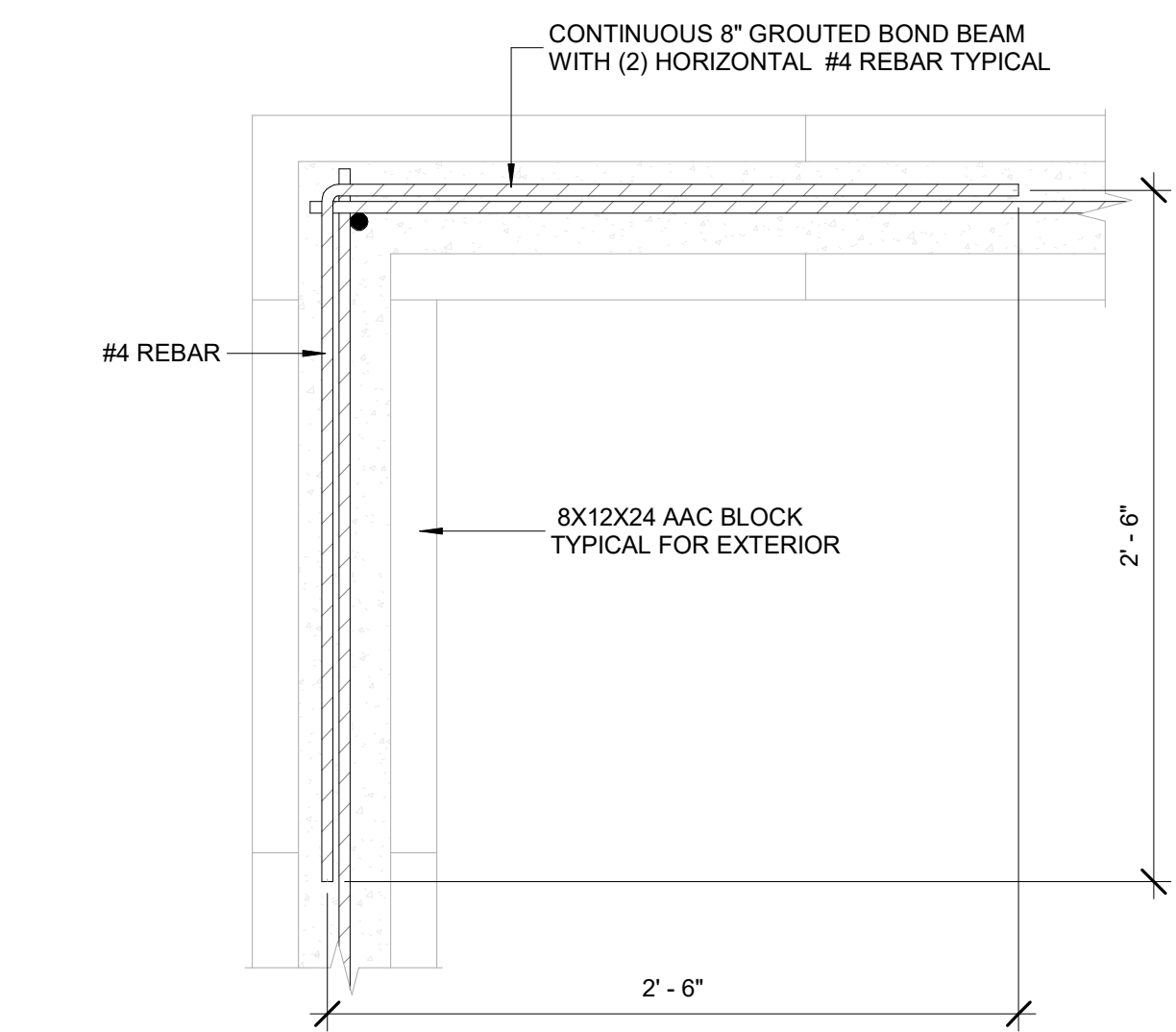
③ TRIPLE BANK WINDOW OPENING DETAIL
3/8" = 1'-0"



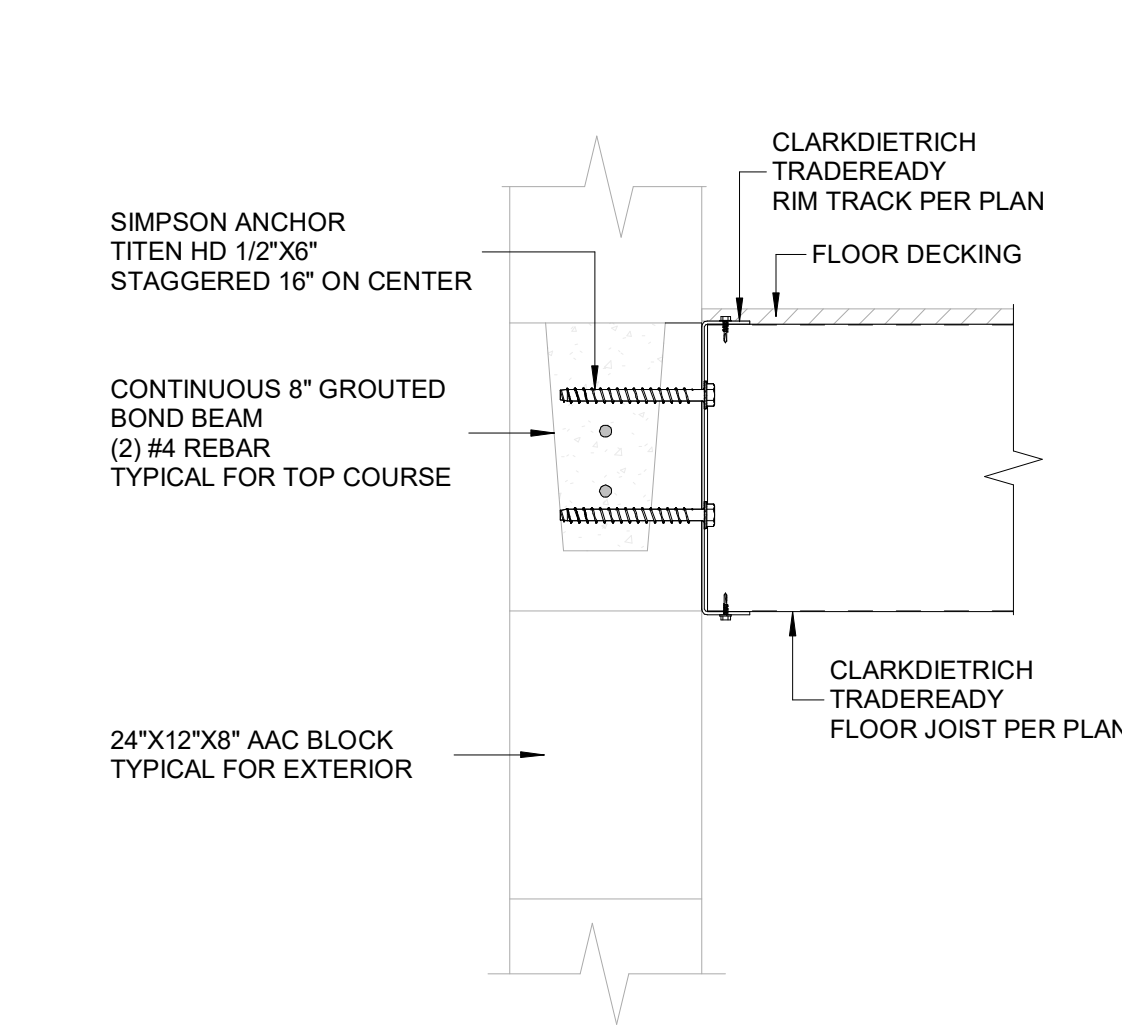
④ GARAGE DOOR OPENING
3/8" = 1'-0"



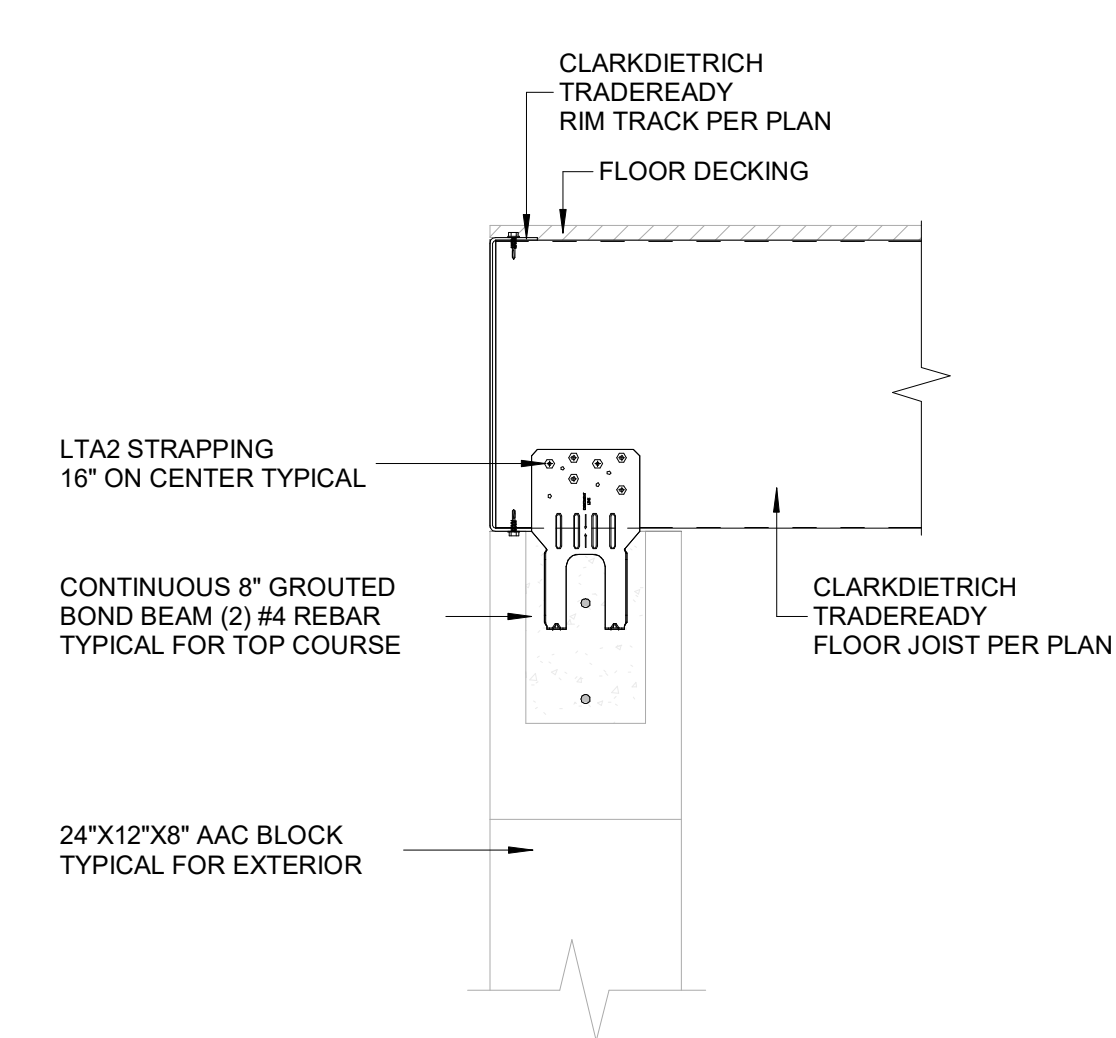
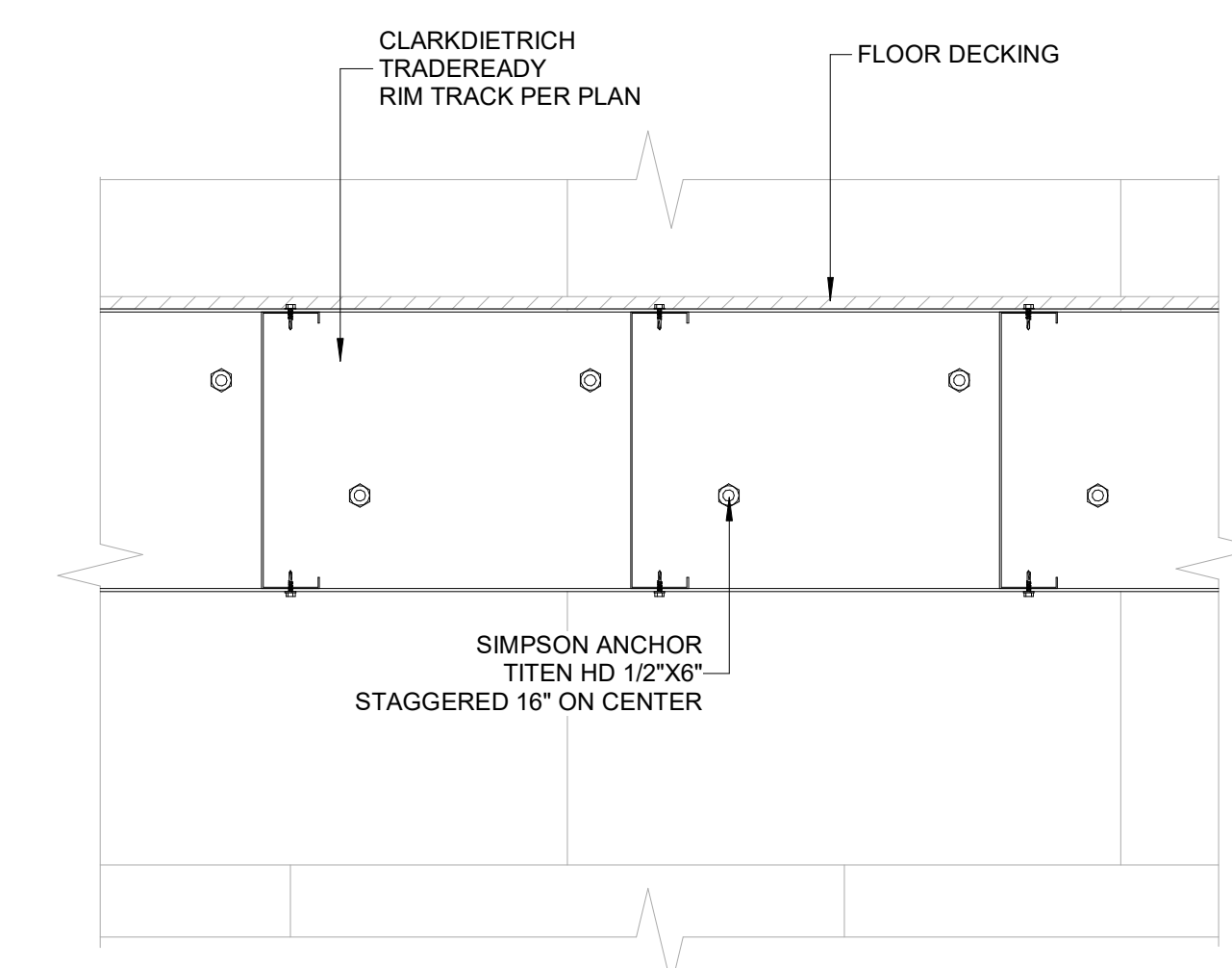
⑤ DOOR OPENING
3/8" = 1'-0"



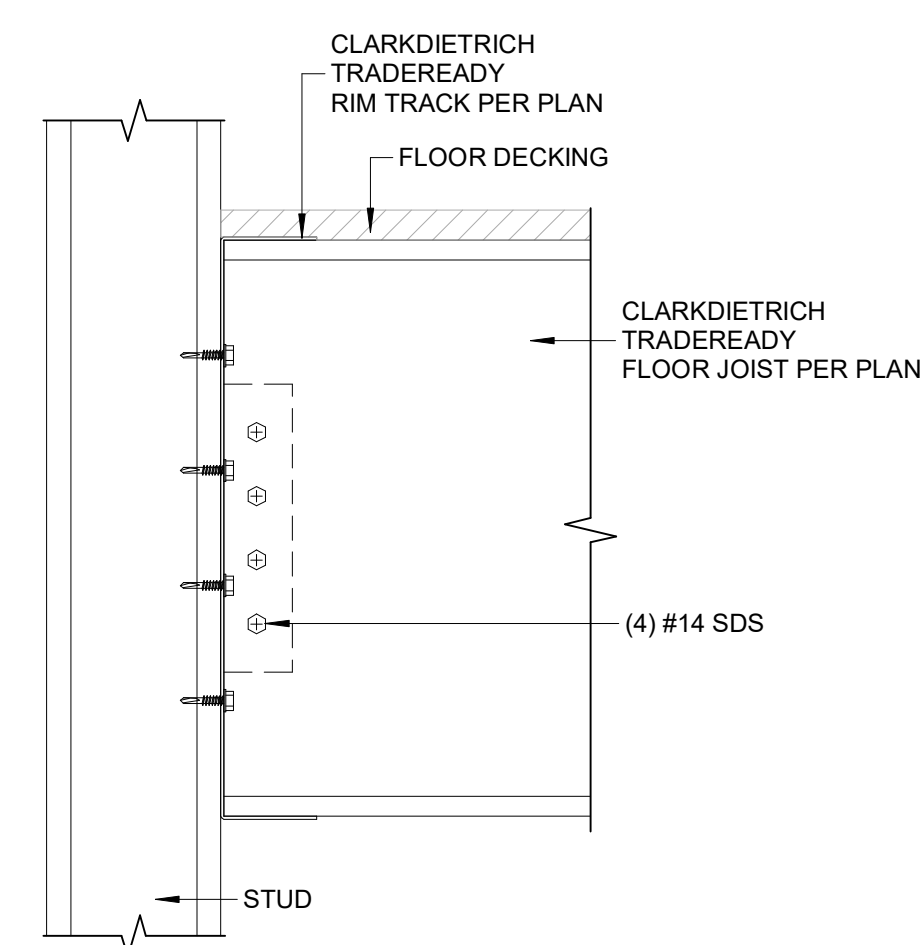
⑥ WALL CORNER REINFORCEMENT DETAIL
1 1/2" = 1'-0"



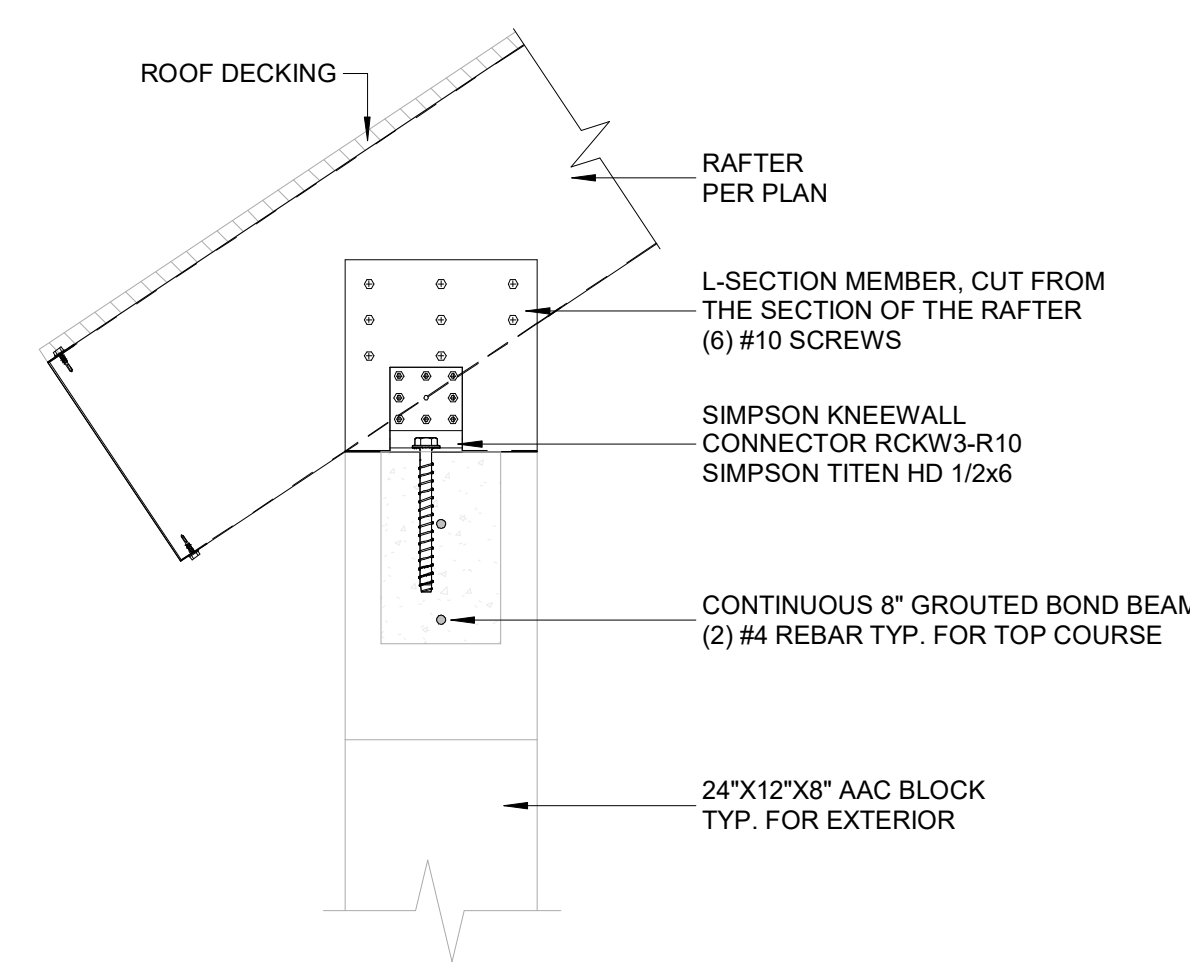
⑦ FLOOR JOIST TO AAC WALL CONNECTION DETAIL
1 1/2" = 1'-0"



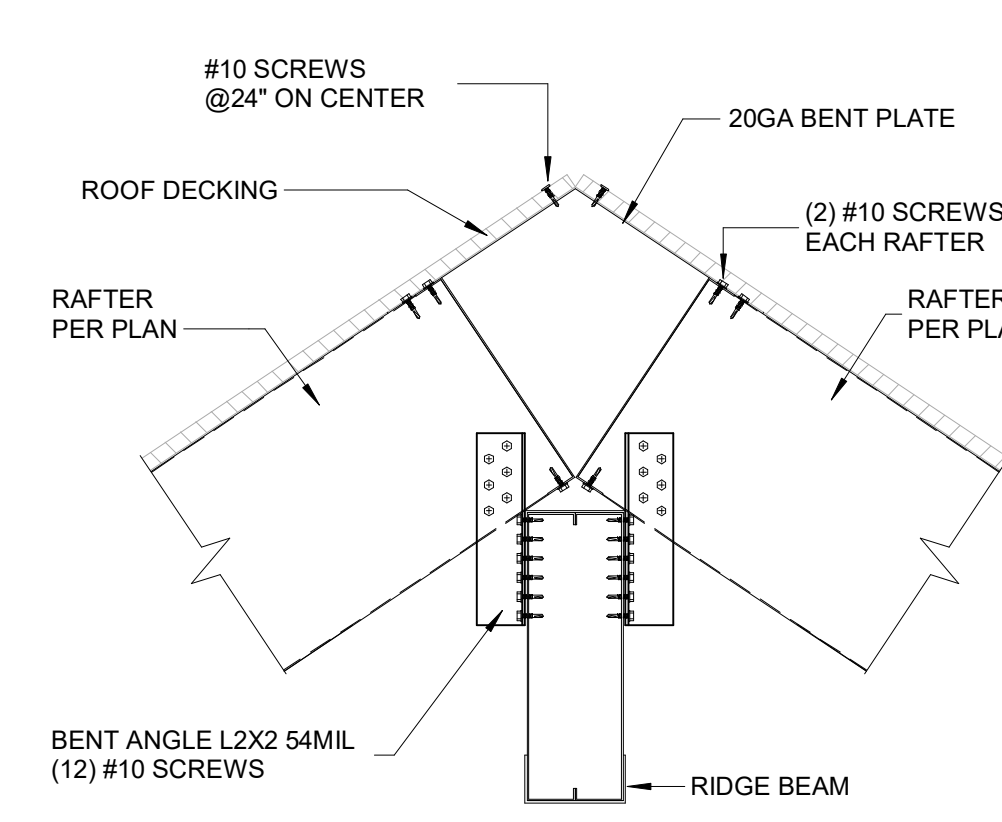
⑧ FLOOR JOIST TO AAC WALL CONNECTION DETAIL
1 1/2" = 1'-0"



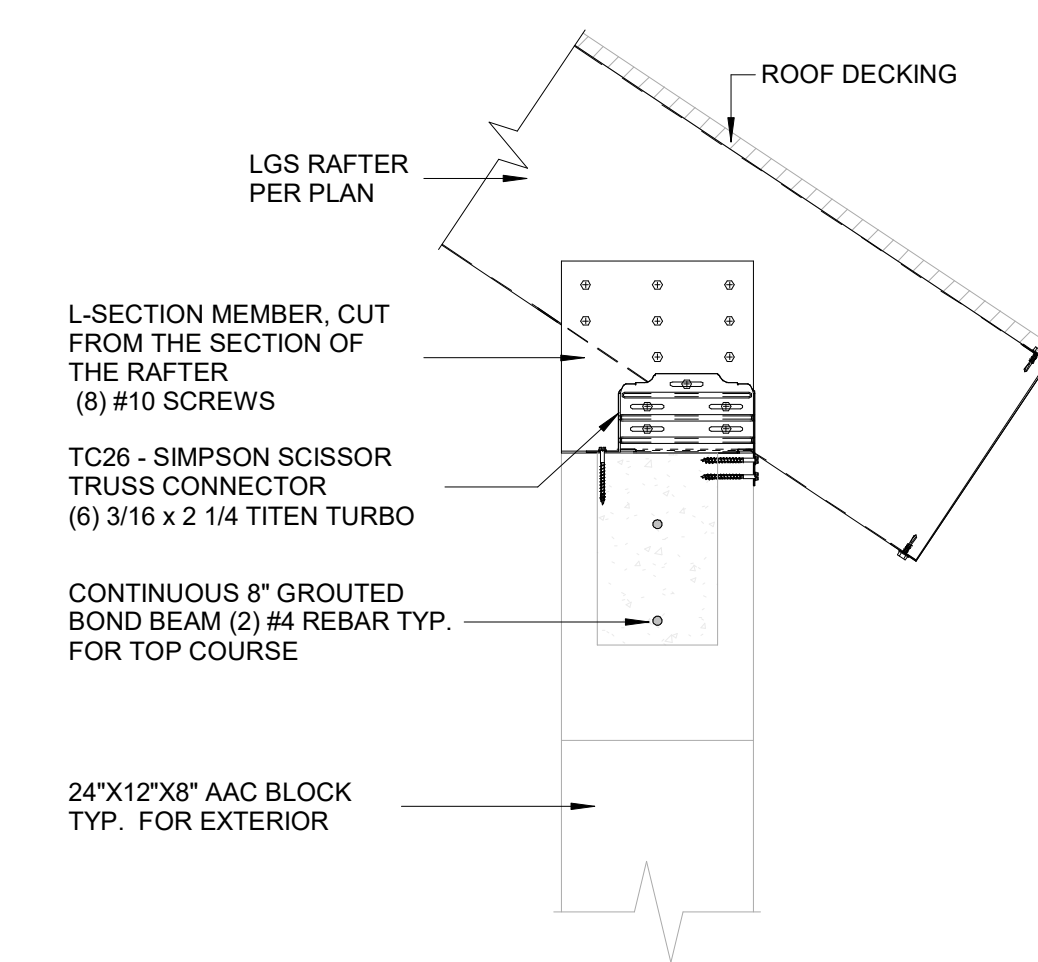
⑨ FLOOR JOIST TO INTERIOR WALL CONNECTION DETAIL
3" = 1'-0"



⑩ ROOF RAFTER TO AAC WALL CONNECTION DETAIL
1 1/2" = 1'-0"



⑪ ROOF RAFTERS TO RIDGE BEAM CONNECTION DETAIL
1 1/2" = 1'-0"



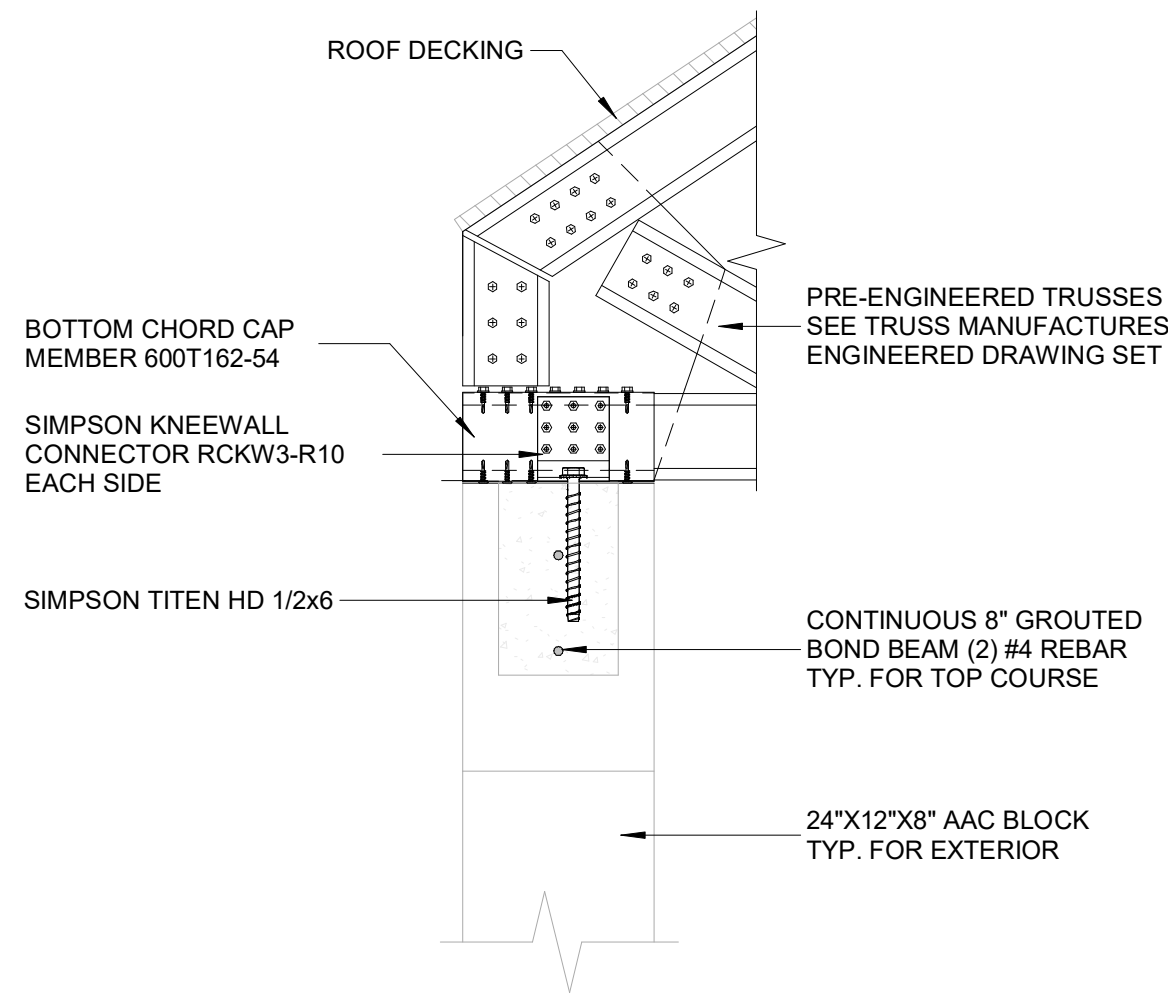
⑫ ROOF RAFTER TO AAC WALL SLIDING DETAIL
1 1/2" = 1'-0"

SHEET NUMBER

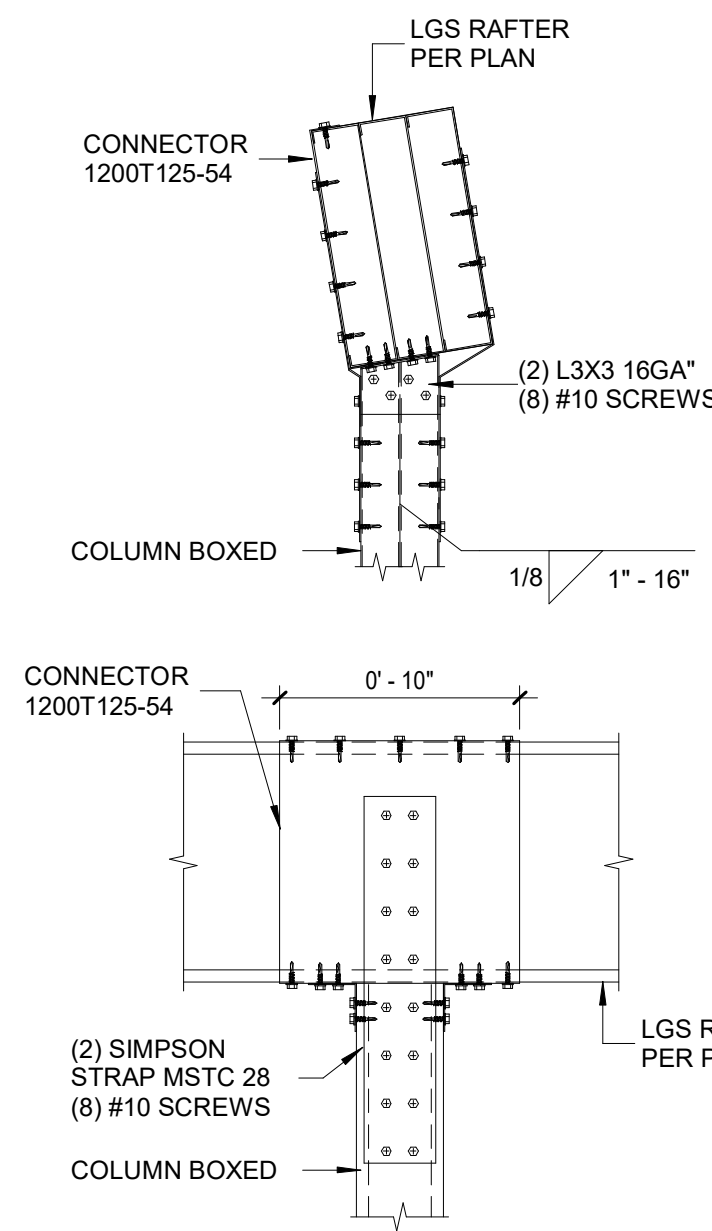
S14

SHEET NAME

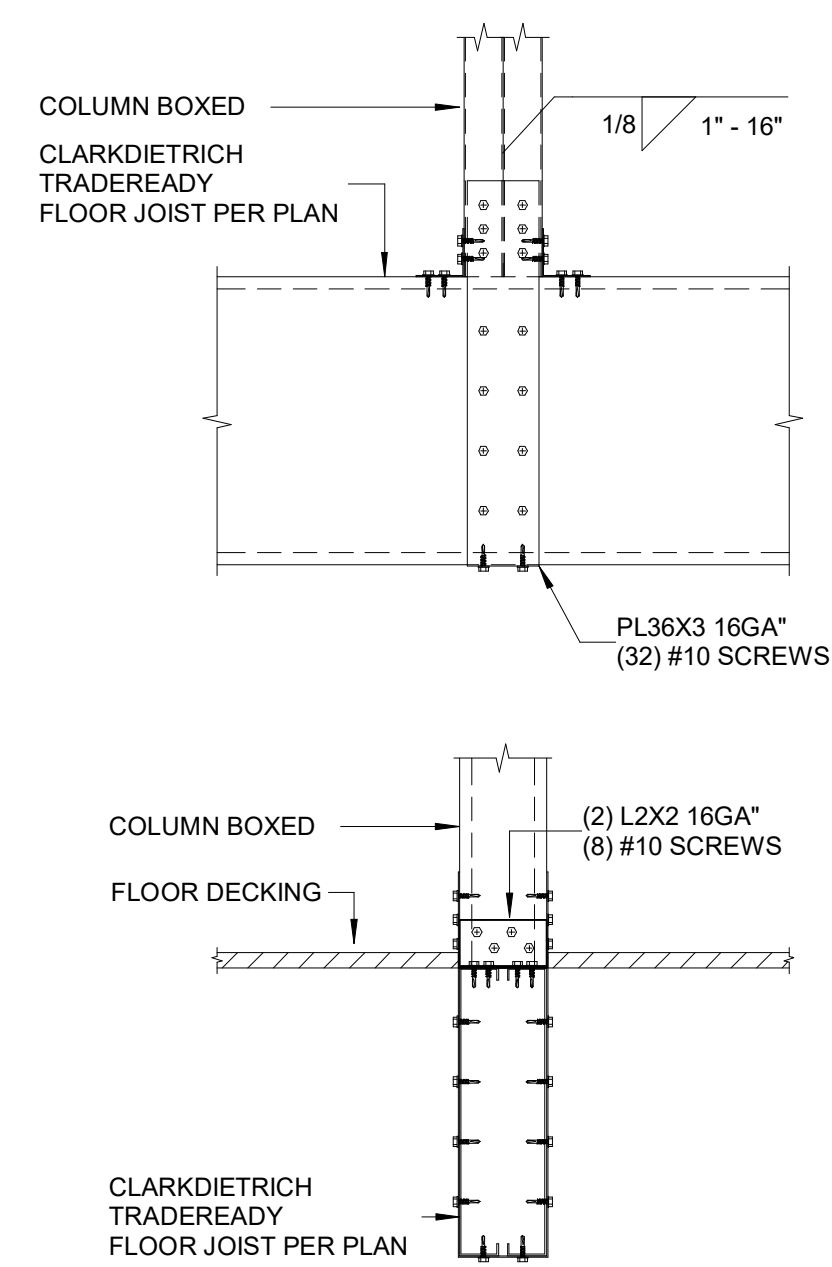
**STRUCTURAL
DETAILS**



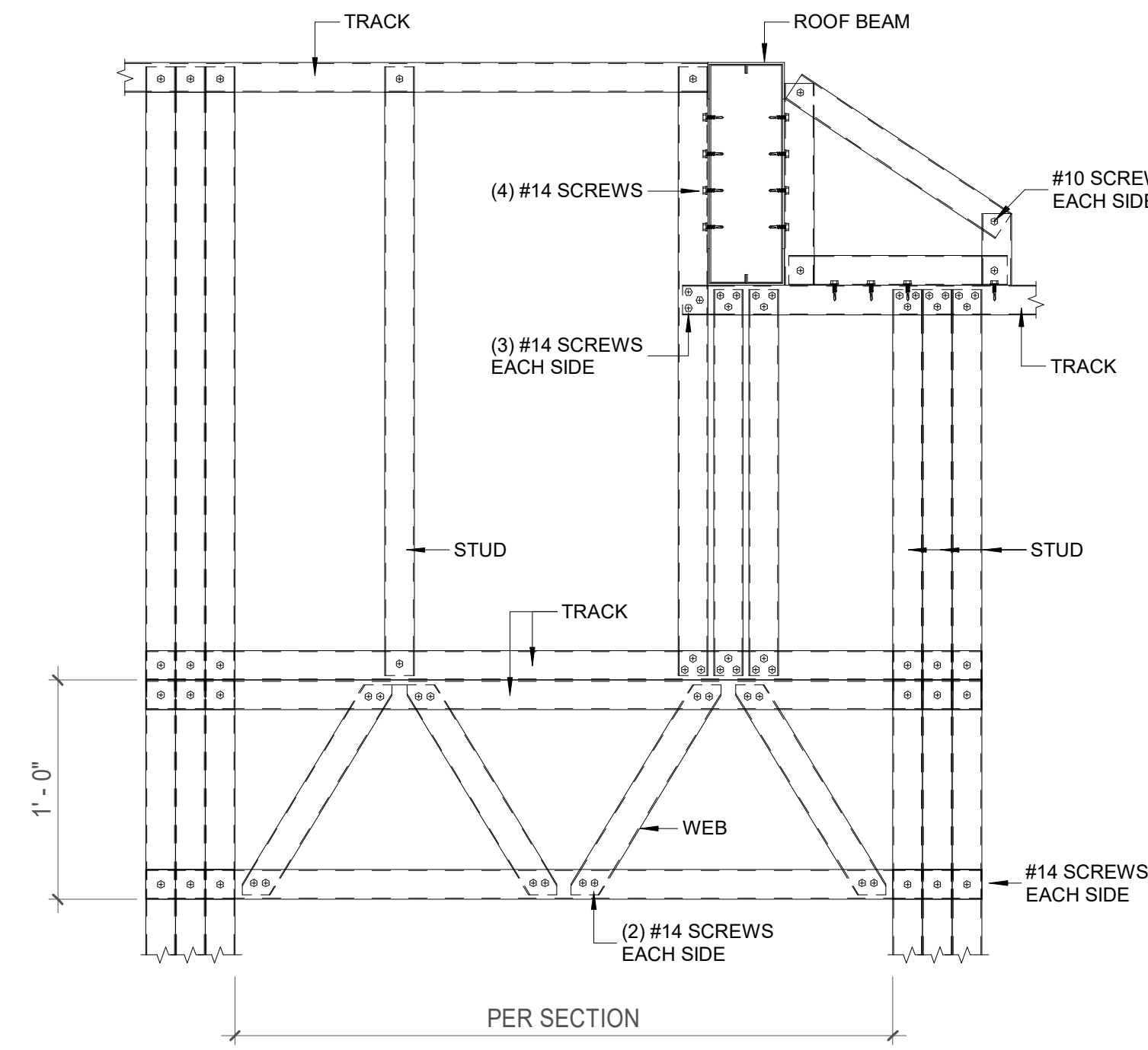
1 TRUSS TO AAC WALL DETAIL
1 1/2" = 1'-0"



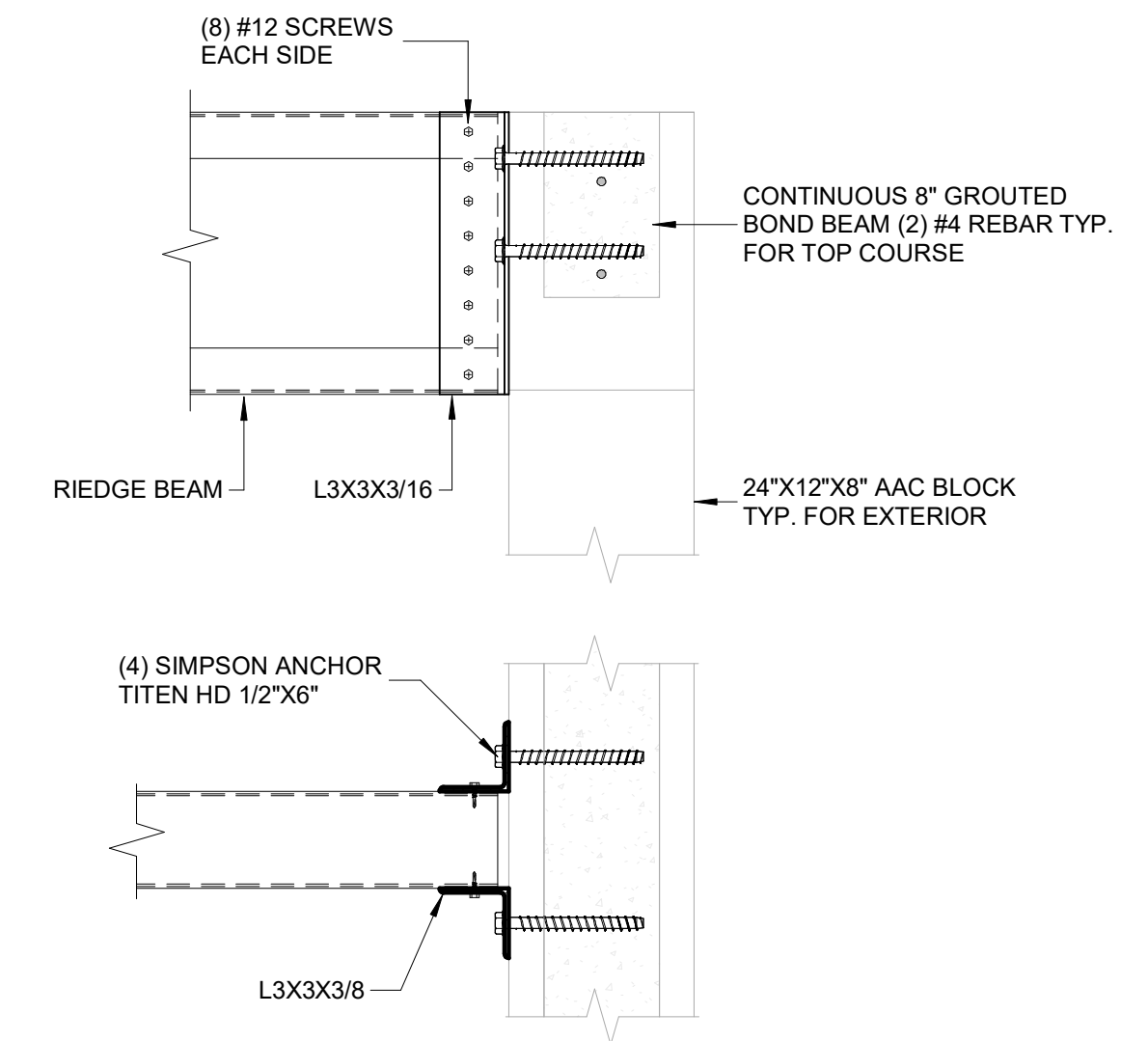
2 ROOF BEAM TO COLUMN CONNECTION DETAIL
1 1/2" = 1'-0"



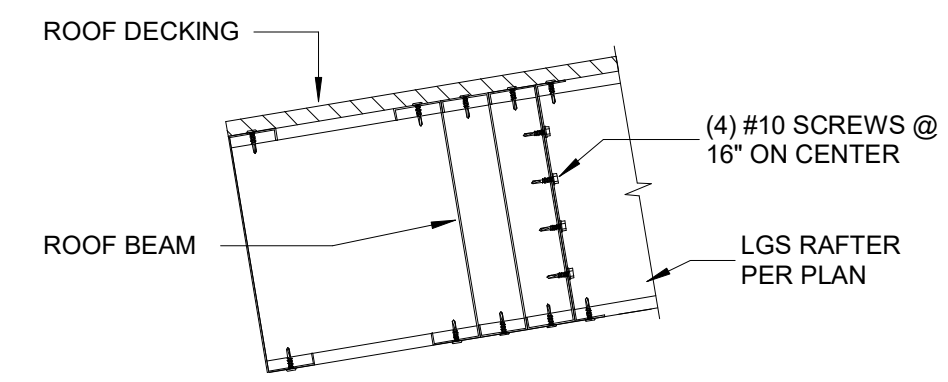
3 COLUMN TO FLOOR JOIST CONNECTION DETAIL
1 1/2" = 1'-0"



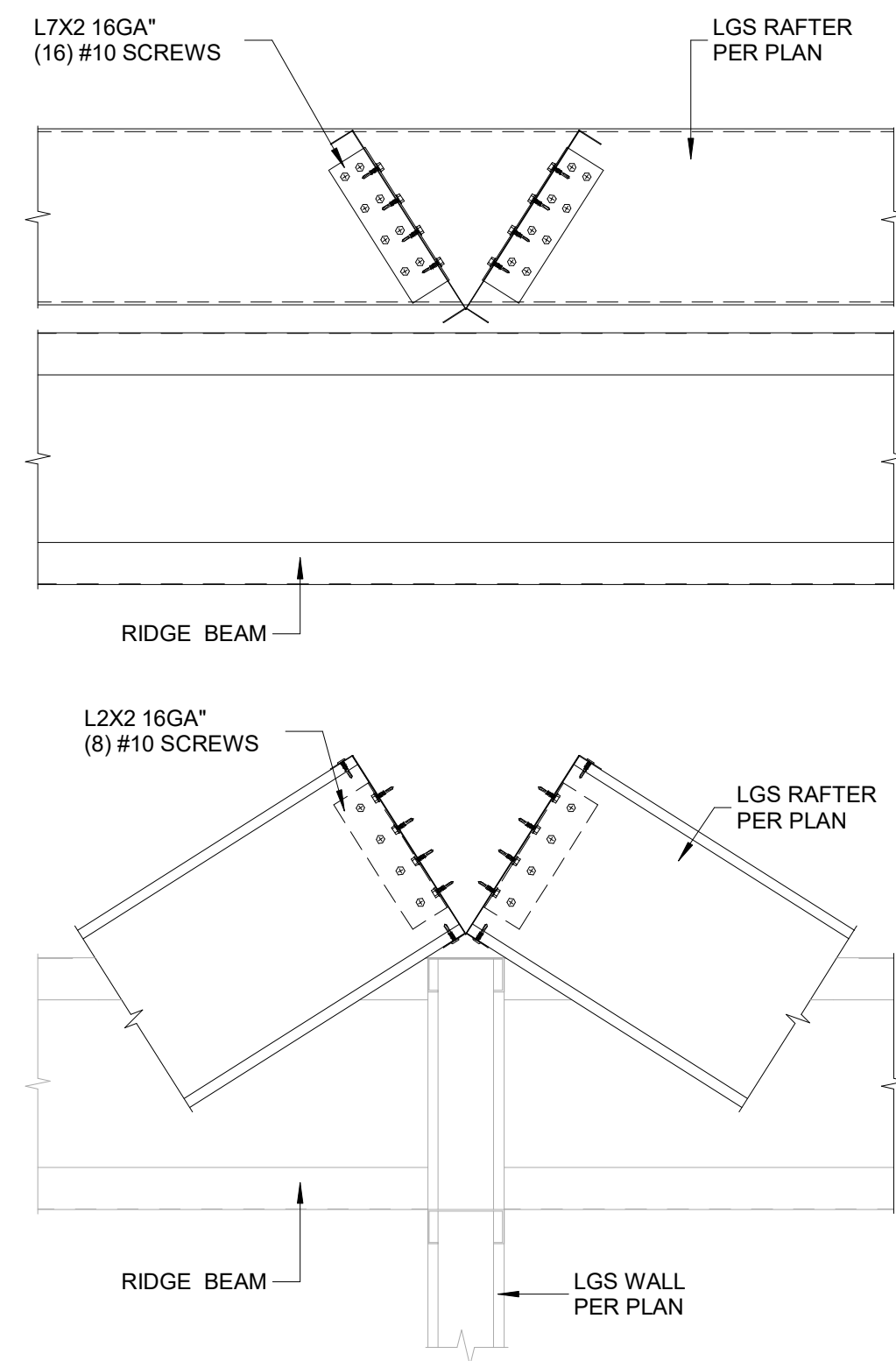
4 ROOF BEAM TO WALL FRAME CONNECTION DETAIL
1 1/2" = 1'-0"



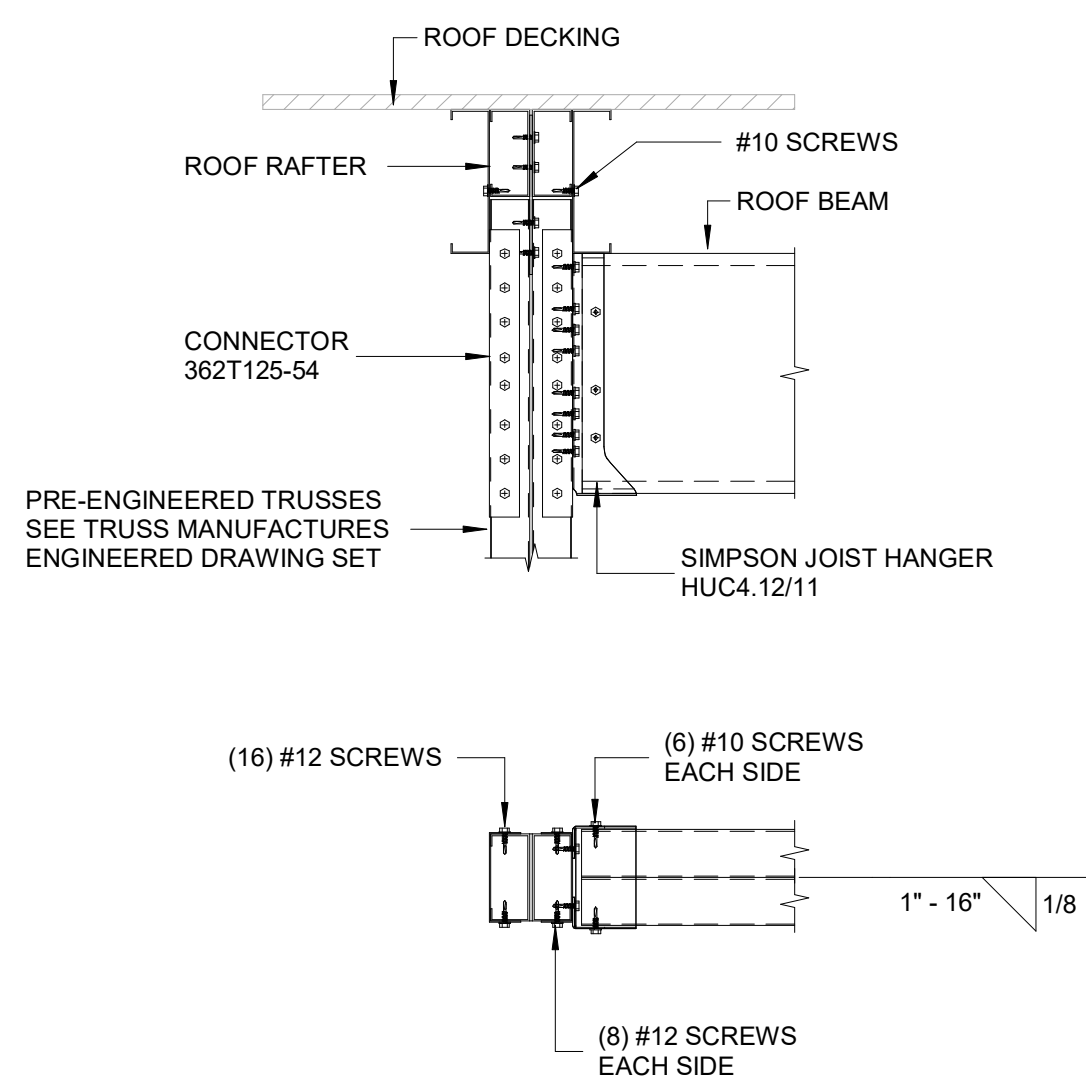
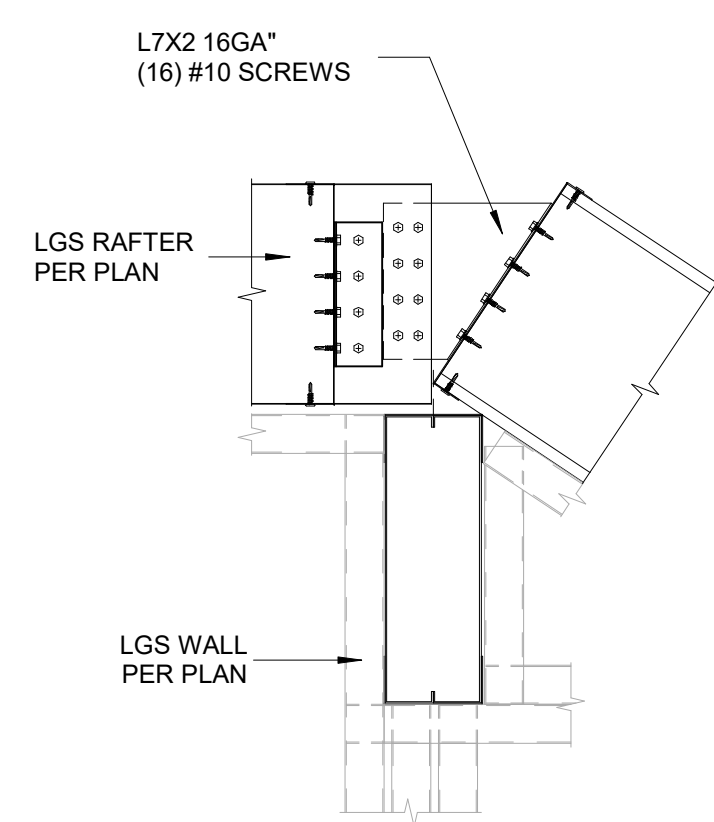
5 ROOF BEAM TO AAC WALL CONNECTION DETAIL
1 1/2" = 1'-0"



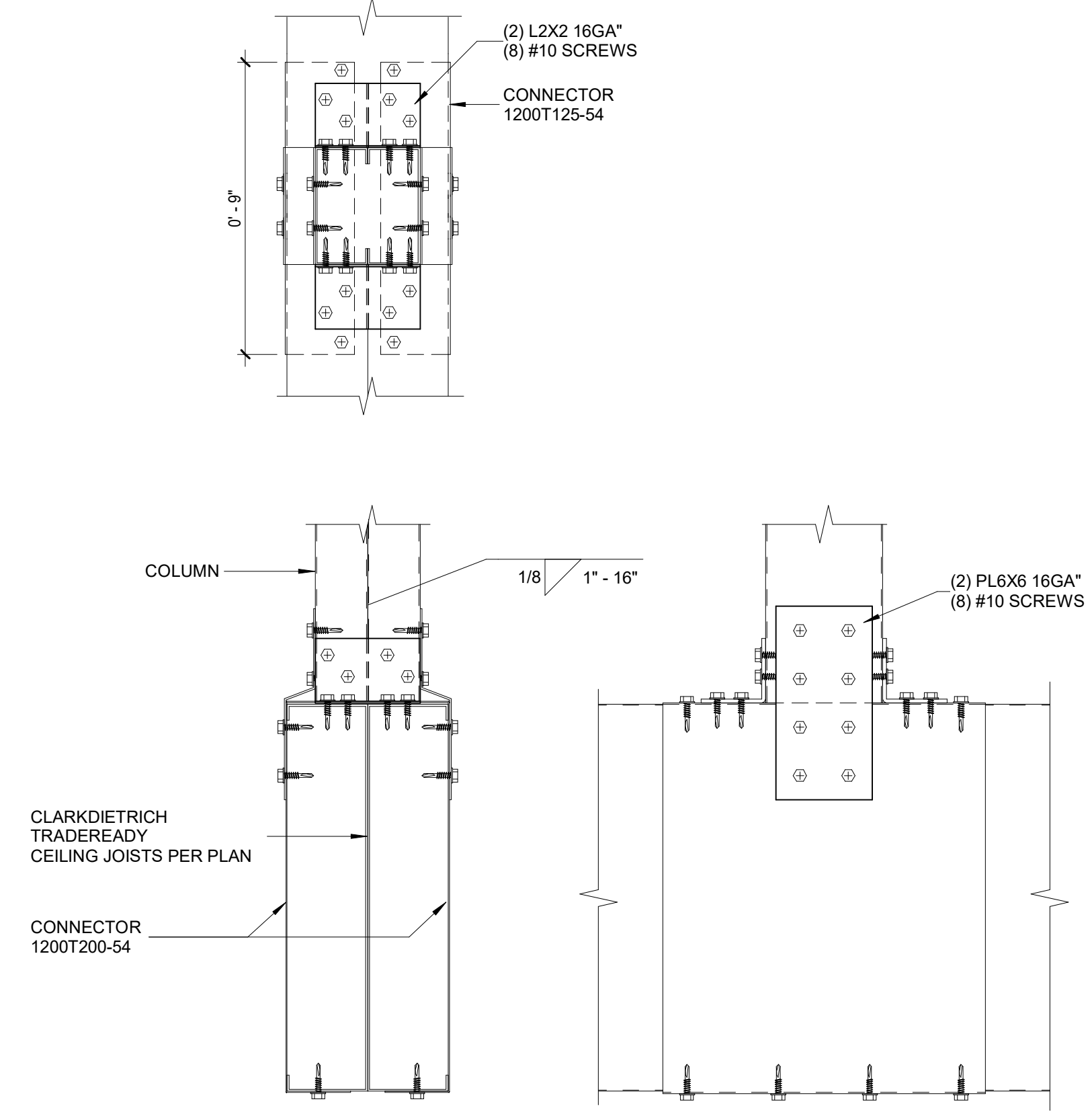
6 ROOF BEAM TO RAFTER CONNECTION DETAIL
1 1/2" = 1'-0"



7 ROOF RAFTER PANELS CONNECTION DETAIL
1 1/2" = 1'-0"



8 RIDGE BEAM TO TRUSS CONNECTION DETAIL
1 1/2" = 1'-0"



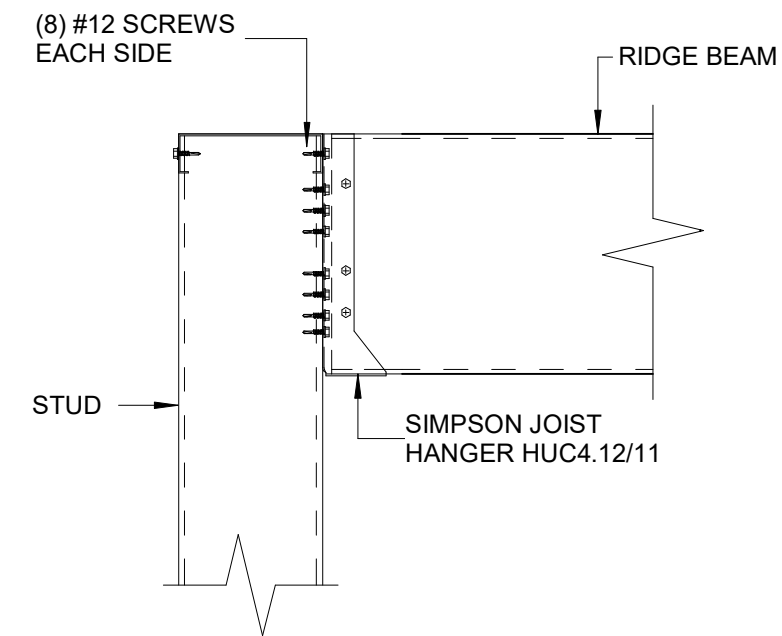
9 POST CEILING JOIST CONNECTION DETAIL
3" = 1'-0"

SHEET NUMBER

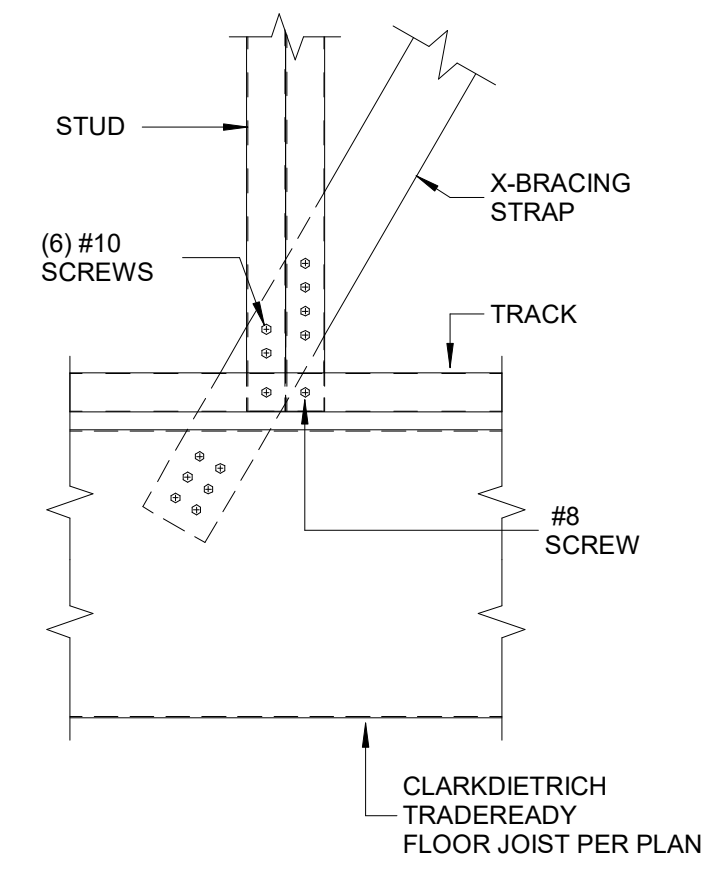
S15

SHEET NAME

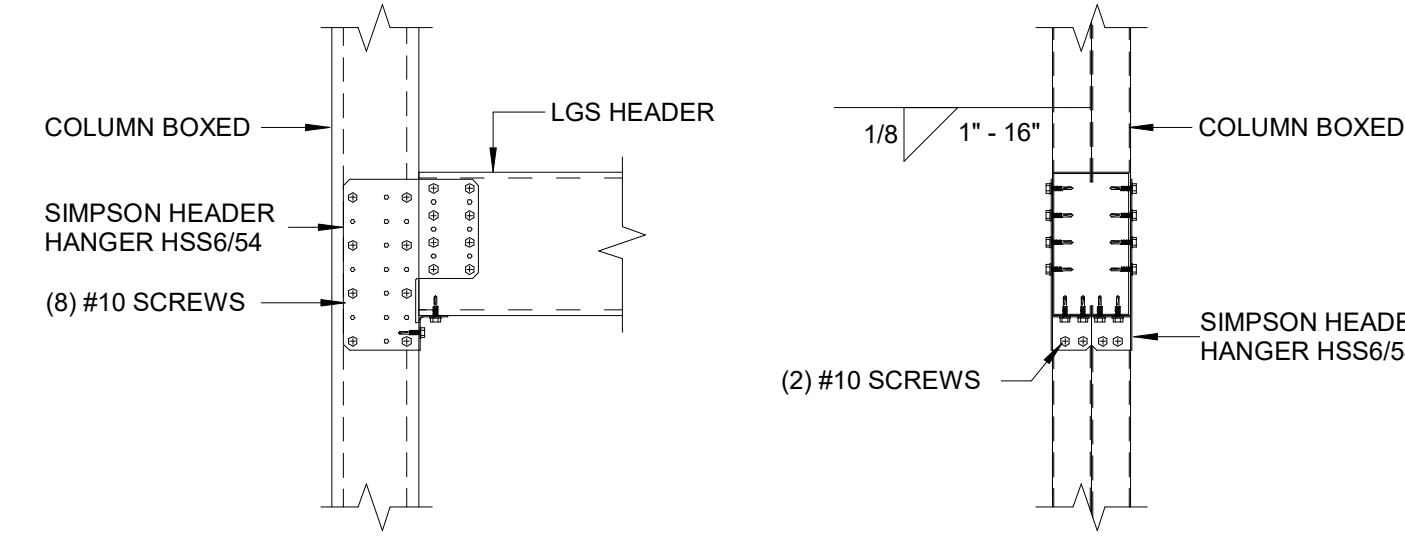
**STRUCTURAL
DETAILS**



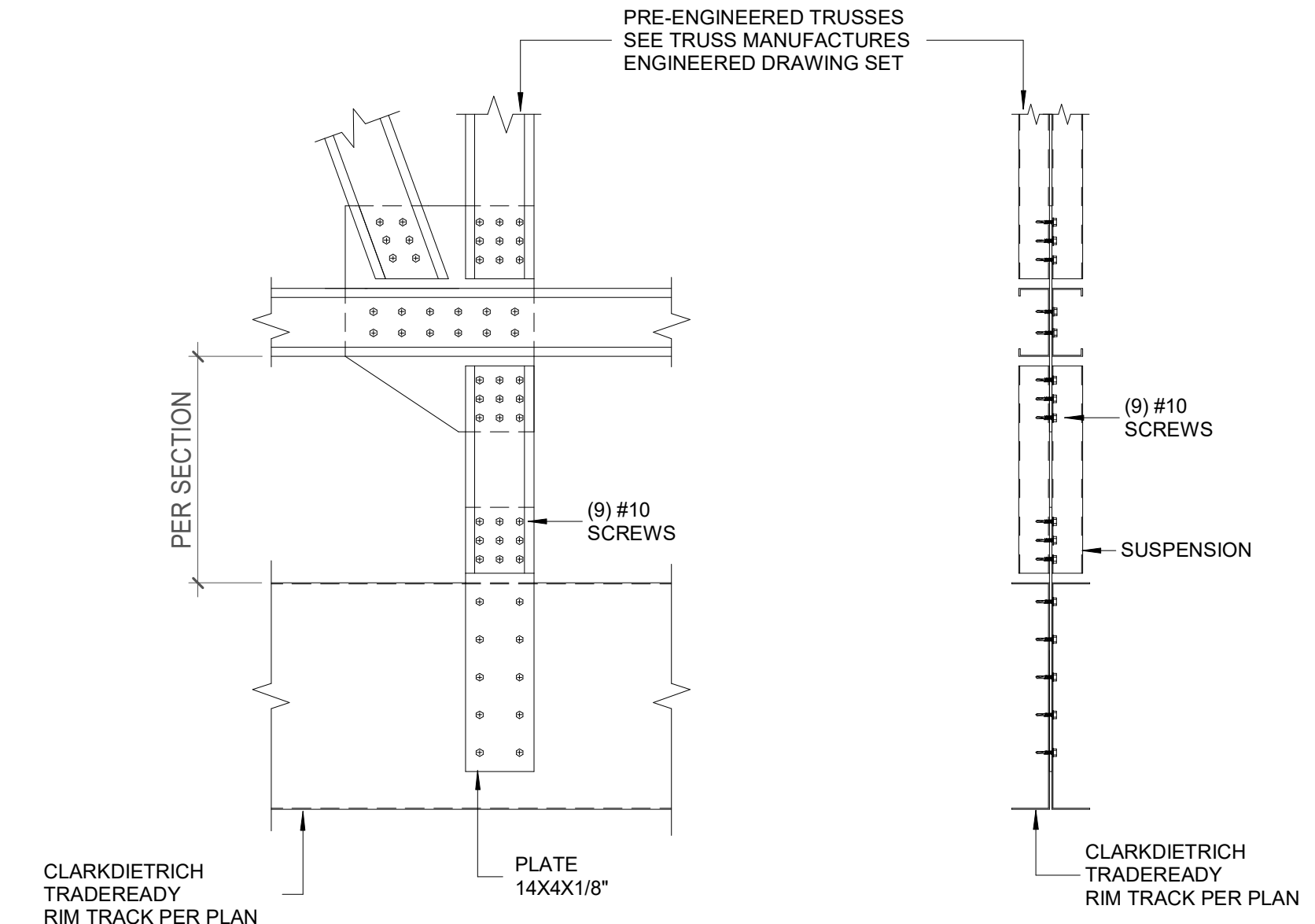
1 ROOF BEAM TO LGS WALL CONNECTION DETAIL
1 1/2" = 1'-0"



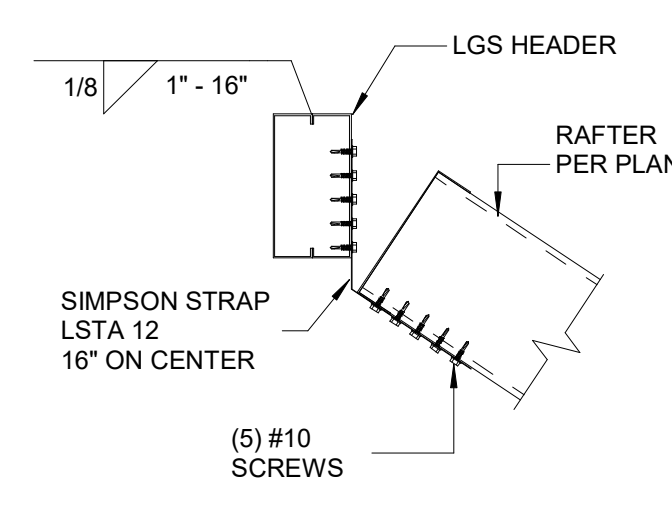
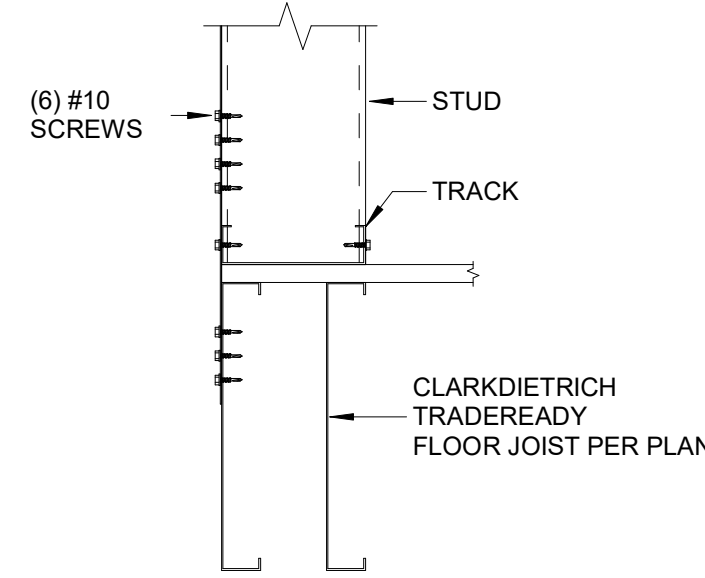
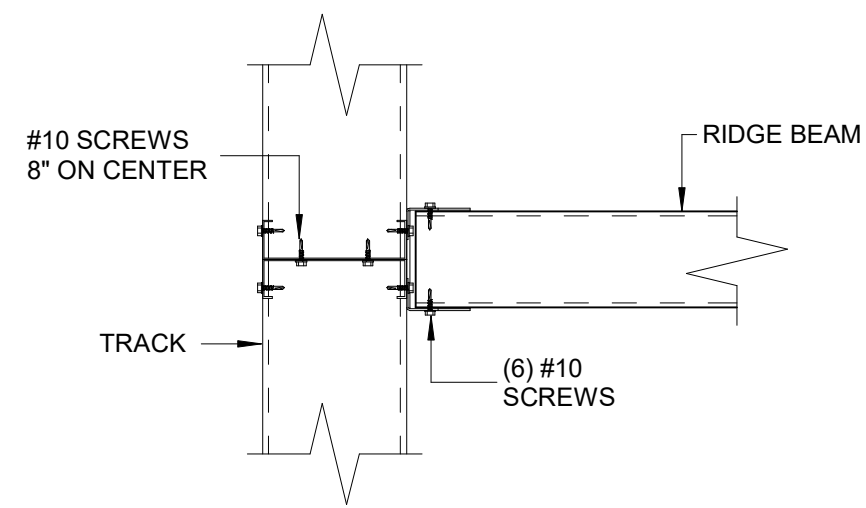
2 X-BRACING STRAP TO LGS WALL CONNECTION DETAIL
1 1/2" = 1'-0"



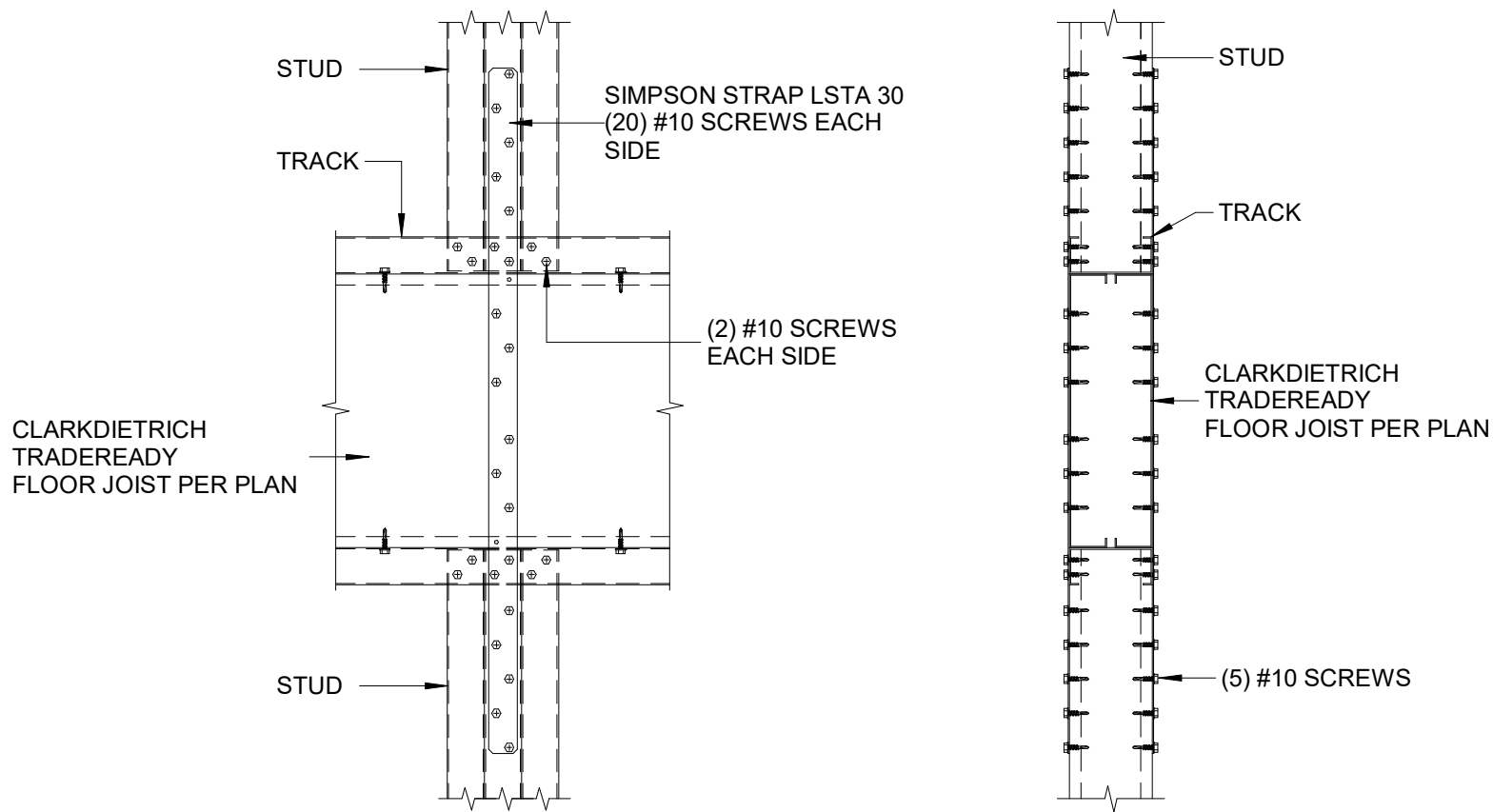
3 HEADER TO COLUMN CONNECTION DETAIL
1 1/2" = 1'-0"



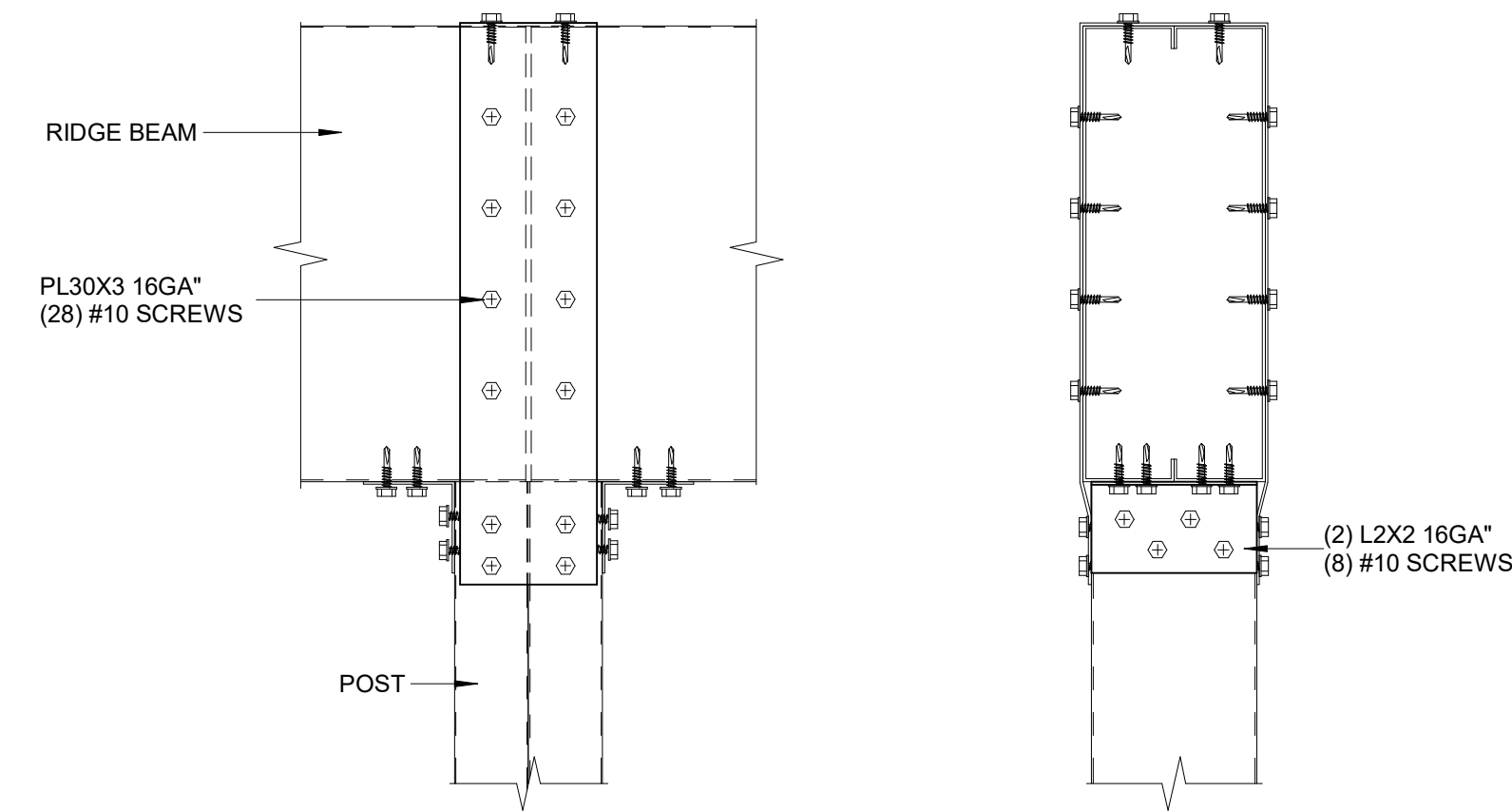
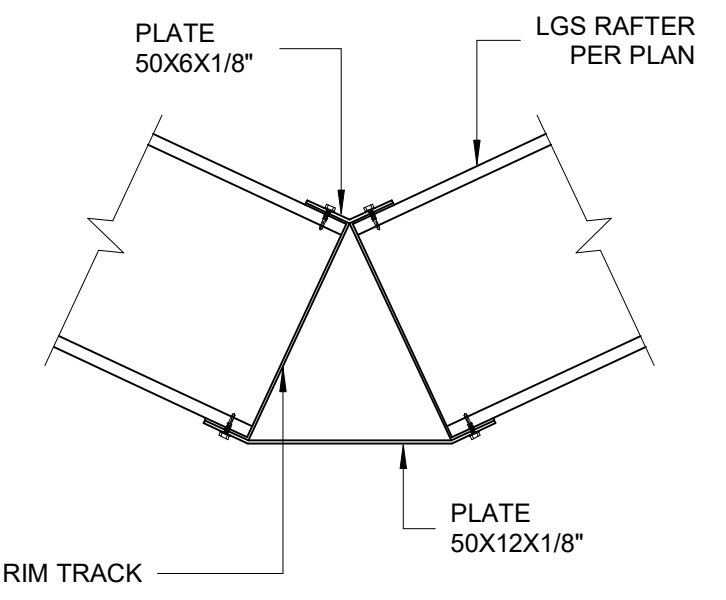
5 RIM TRACK TO TRUSS CONNECTION DETAIL
1 1/2" = 1'-0"



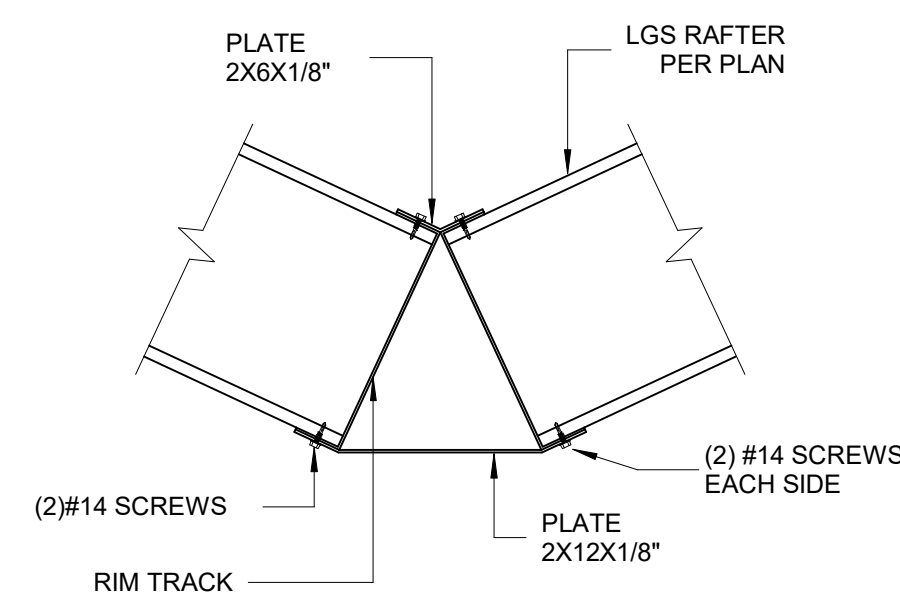
4 ROOF BEAM TO HEADER CONNECTION DETAIL
1 1/2" = 1'-0"



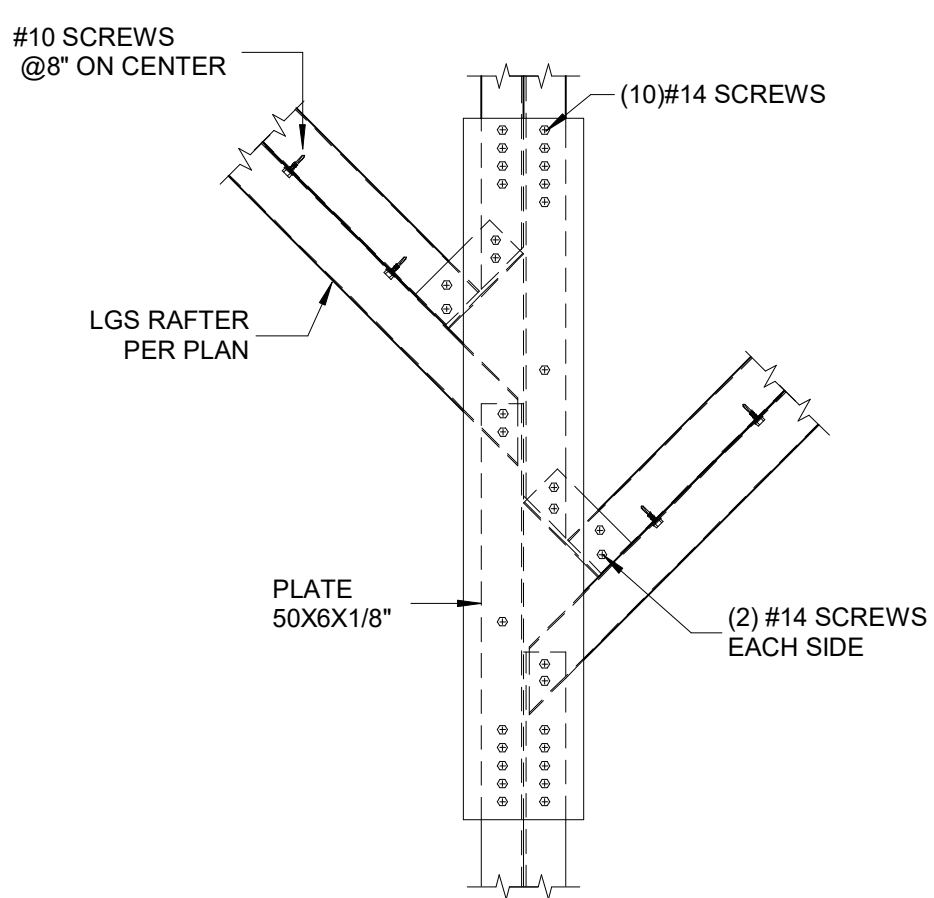
10 STUD TO JOIST CONNECTION DETAIL
1 1/2" = 1'-0"



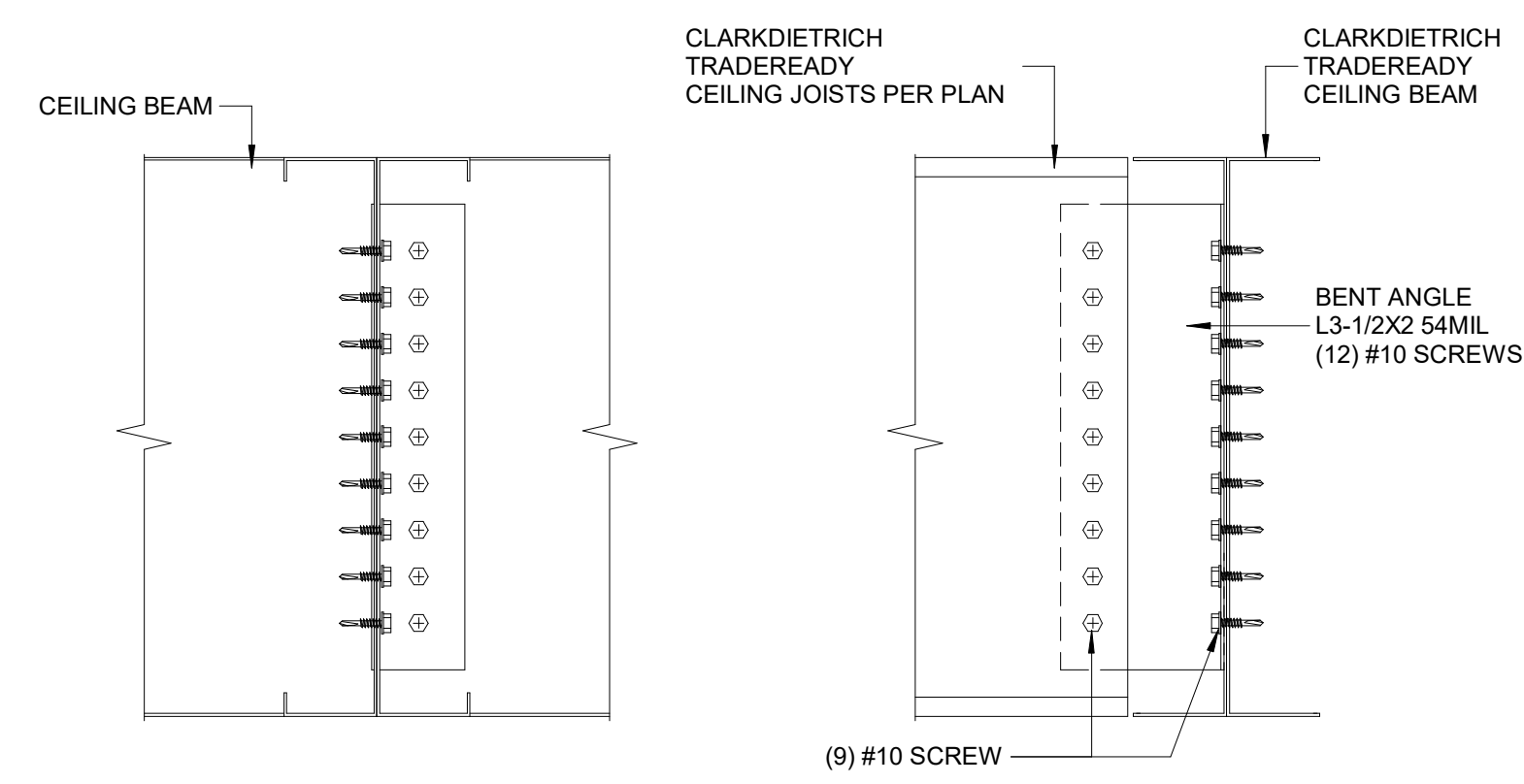
7 RIDGE BEAM POST CONNECTION DETAIL
3" = 1'-0"



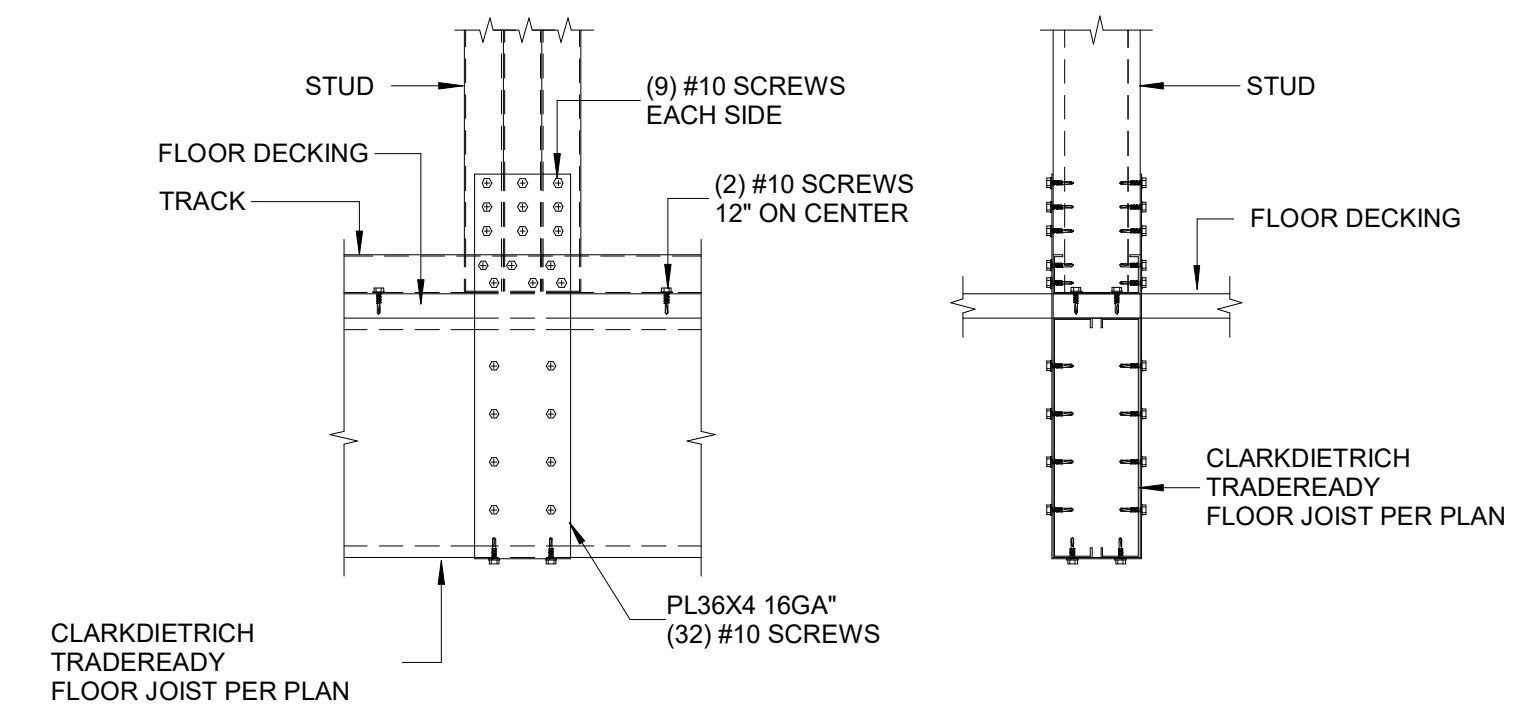
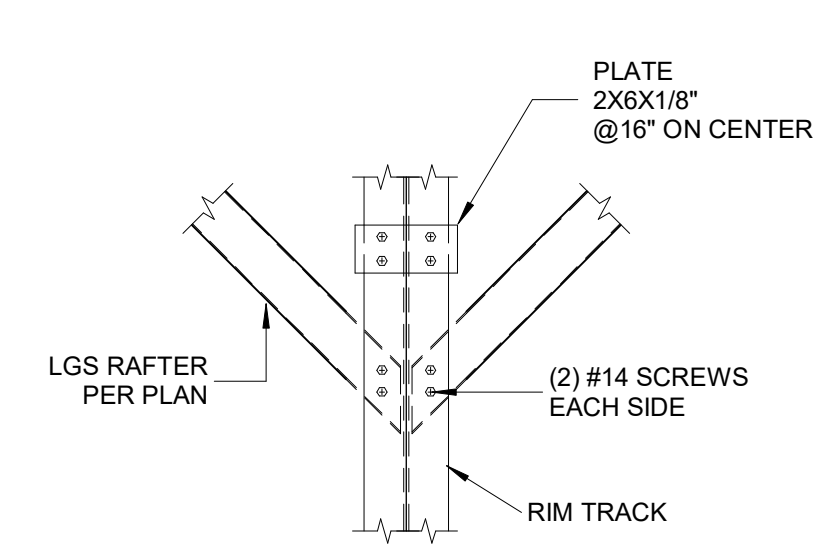
9 PANEL TO PANEL CONNECTION DETAIL TYPICAL
1 1/2" = 1'-0"



6 RIM TRACK TO RIM TRACK CONNECTION DETAIL
1 1/2" = 1'-0"



8 CEILING JOIST CONNECTION DETAIL
3" = 1'-0"



11 STUD TO JOIST CONNECTION DETAIL
1 1/2" = 1'-0"

SHEET NUMBER

S16

SHEET NAME

**STRUCTURAL
DETAILS**