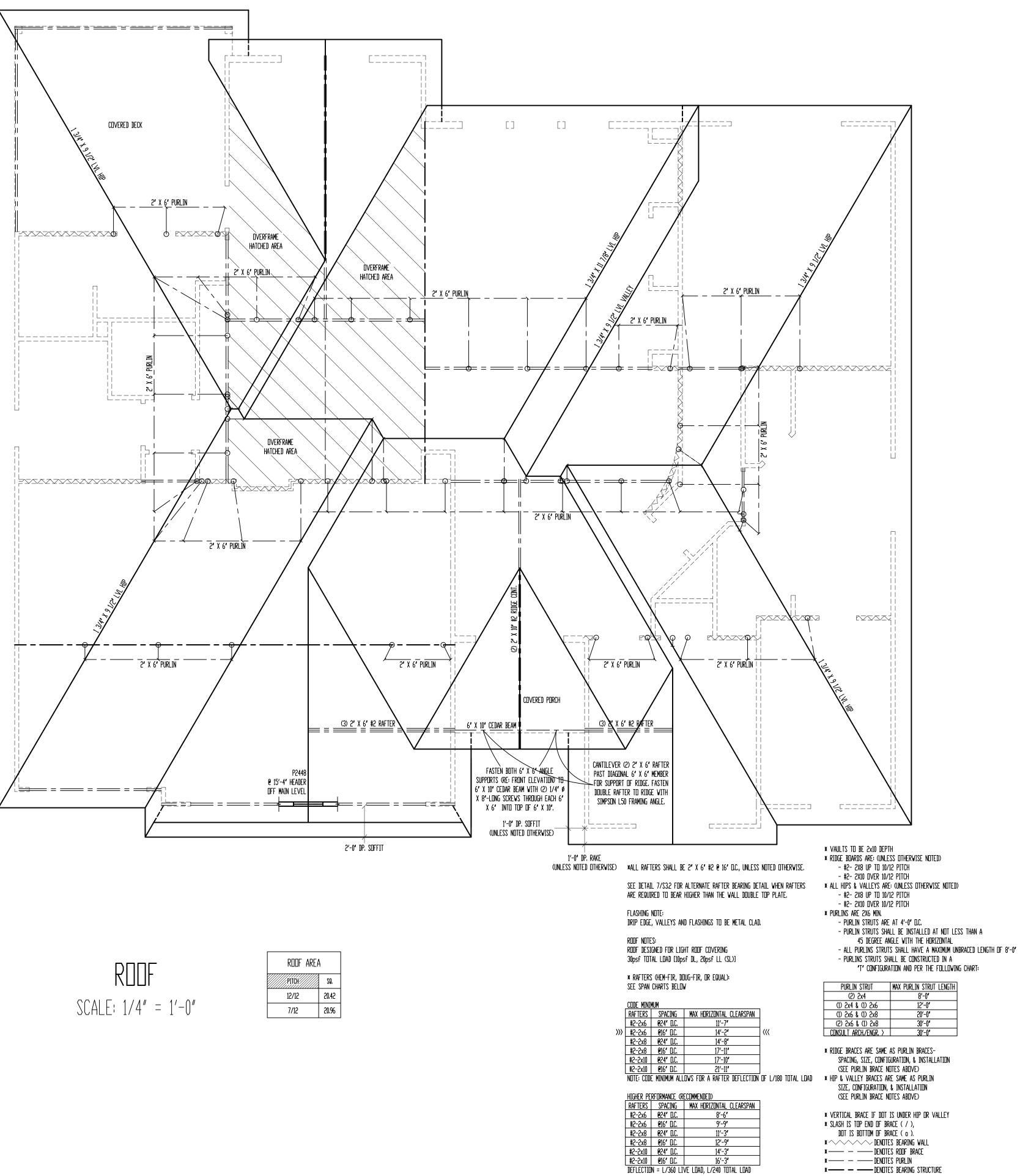
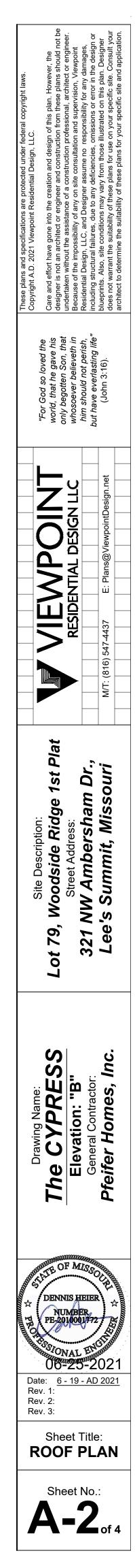


NOTE: GOVERNING CODES & GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER THESE PLANS.

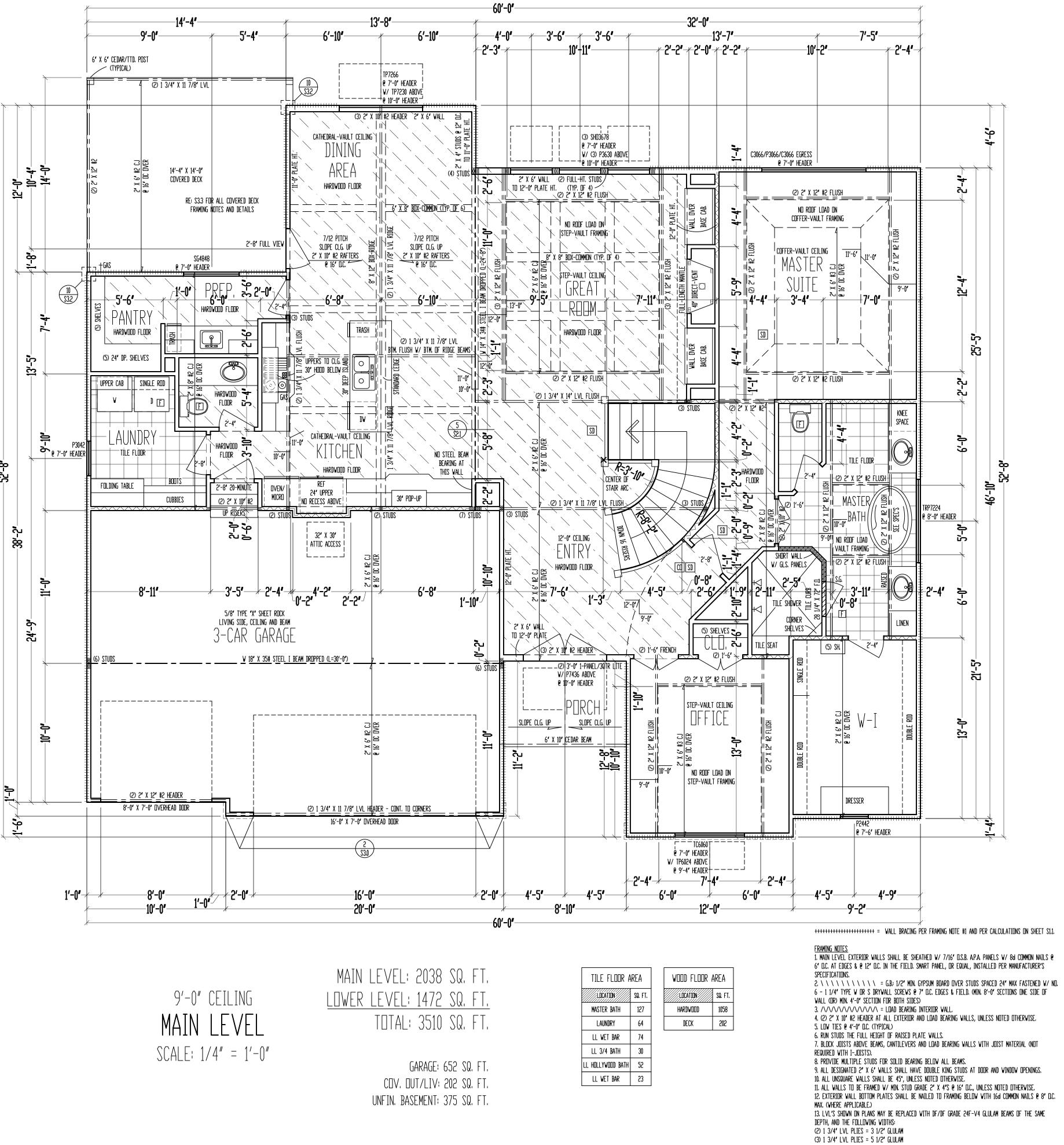
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"For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life" (John 3:16).
MT: (816) 547-4437 E: Plans@ViewpointDesign.net
Site Description: Lot 79, Woodside Ridge 1st Plat Street Address: 321 NW Ambersham Dr., Lee's Summit, Missouri
Drawing Name: The CYPRESS Elevation: "B" General Contractor: Pfeifer Homes, Inc.
DENNIS HEIER PE-2010001772 DENNIS HEIER PE-2010001772 DENNIS HEIER PE-2010001772 Date: 6-19-AD 2021 Rev. 1: Rev. 2: Rev. 3: Sheet Title:
ELEVATIONS









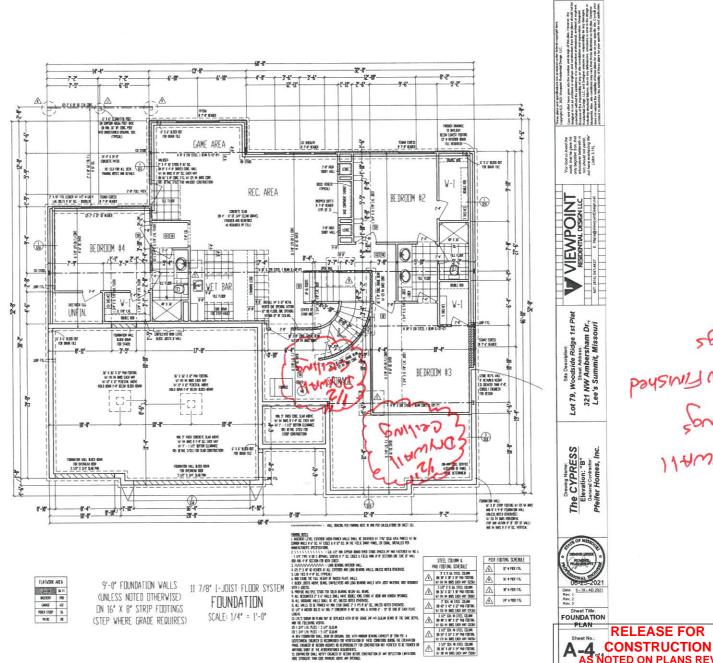


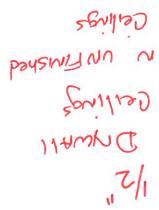
14. Contractor shall notify engineer of record before construction of any deflection limitations More stringent than code minimums above any openings,

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			M/T: (816) 547-4437 E: Plans@ViewpointDesign.net
Sita Descrintion:	Lot 79, Woodside Ridge 1st Plat Street Address:	321 NW Ambersham Dr.,	Lee's Summit, Missouri
Drawing Name:	The CYPRESS	General Contractor:	Pfeifer Homes, Inc.

A-3_{of 4}

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/02/2021





LEE'S SUMMIT, MISSOURI 08/02/2021

S NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

DESCRIPTION OF BUILDING ELEME	NTS I	NUMBER AND TYF	PE OF FASTENER		SPACING AND LOCATION	
		RO				
BLOCKING BETWEEN JOISTS OR RAFTEF PLATE, TOE NAIL	RS TO TOP	4-8d (2 <mark>½</mark> "			TOENAIL	
CEILING JOISTS TO PLATE, TOE N	AIL	4-8d (2½"	x 0.113")		PER JOIST, TOENAIL	
CEILING JOISTS NOT ATTACHED TO PA RAFTER, LAPS OVER PARTITIONS, FAC		4-10d (3"	x 0.128")		FACE NAIL	
CEILING JOIST TO PARALLEL RAFTER (HE	EEL JOINT)	TBLE R	802.5.2		FACE NAIL	
COLLAR TIE TO RAFTER, FACE NAIL OR 1 RIDGE STRAP TO RAFTER	¹ / ₄ " x 20 GA.	4-10d (3"	x 0.128")	F	ACE NAIL, EACH RAFTER	
RAFTER OR ROOF TRUSS TO PLA	TE	3-16d BOX NAILS (3½" x 0. NAILS (3"			S ON ONE SIDE AND 1 TOE NAIL ON SIDE OF EACH RAFTER OR TRUSS	
ROOF RAFTERS TO RIDGE, VALLEY, O RAFTERS OR ROOF RAFTER TO MINIMUM BEAM		4-16d (3 <u>1</u> " x 0.135") - TOF 0.135") - E			TOENAIL, END NAIL	
	-	WA	LL			
STUD TO STUD (NOT AT BRACED WALL	PANELS)	10d (3" x	0.128")		16" O.C. FACE NAIL	
STUD TO STUD AND ABUTTING STUD NTERSECTING WALL CORNERS (AT BRA PANELS)		16d (3½" :	x 0.135")		12" O.C. FACE NAIL	
BUILT-UP HEADER, TWO PIECES WITH $rac{y}{2}$	" SPACER	16d (3 <mark>½</mark> " :	x 0.135")	12"	O.C. EACH EDGE FACE NAIL	
CONTINUOUS HEADER TO STUE	D	4-8d (2 <mark>½</mark> "	x 0.131")		TOENAIL	
TOP PLATE TO TOP PLATE		10d (3" x	0.128")		12" O.C. FACE NAIL	
DOUBLE TOP PLATE SPLICE		8-16d COMMON	N (3 1 /2" x 0.162")		N EACH SIDE OF END JOINT (MIN. 24" LENGTH EACH SIDE OF END JOINT)	
BOTTOM PLATE TO JOIST, RIM JOIST, BA OR BLOCKING (NOT AT BRACED WALL I		16d COMMON	(3 ¹ / ₂ " x 0.162")		16" O.C. FACE NAIL	
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANEL)		3-16d BOX (3	3 1 " x 0.135")	3 EACH 16" O.C. FACE NAIL		
TOP OR SOLE PLATE TO STUD, END NAIL			113") - TOENAIL; 3-16d BOX (3 1 /2" x 135") - END NAIL		TOENAIL, END NAIL (SEE LEFT)	
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS		3-10d BOX (3" x 0.128")		FACE NAIL	
1" BRACE TO EACH STUD AND PLATE		3-8d BOX (2	2 ¹ / ₂ " x 0.113")		FACE NAIL	
1"x6" SHEATHING TO EACH BEARI	NG	3-8d BOX (2	3d BOX (2 ¹ / ₂ " x 0.113")		FACE NAIL	
1"x8" SHEATHING TO EACH BEARI	NG	3-8d BOX (2 1 ″ x 0.113″) - F 1″x8″ - 4-8d BOX			FACE NAIL	
		FLO	OR			
JOIST TO SILL, TOP PLATE, OR GIR	DER	4-8d BOX (2	¹ / ₂ " x 0.113")		TOE NAIL	
RIM JOIST, BAND JOIST, OR BLOCKING T TOP PLATE (ROOF APPLICATIONS A		8d BOX (2	¹ / ₂ " x 0.113") 4" O.C. TO		4" O.C. TOE NAIL	
1" x 6" SUBFLOOR OR LESS TO EACH	JOIST	3-8d BOX (2	¹ / ₂ " x 0.113")	FACE NAIL		
2" SUBFLOOR TO JOIST OR GIRDI	ER	3-16d BOX (3	3 1 " x 0.135")	BLIND AND FACE NAIL		
2" PLANKS (PLAN & BEAM - FLOOR AND	D ROOF)	3-16d BOX (3	3 1 " x 0.135")	AT	EACH BEARING, FACE NAIL	
BAND OR RIM JOIST TO JOIST		3-16d COMMON	N (3 ¹ / ₂ " x 0.162")	END NAIL		
BUILT-UP GIRDERS AND BEAMS, 2-INCH LAYERS	LUMBER	10d BOX (3	" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES		
LEDGER STRIP SUPPORTING JOISTS OR	RAFTERS	4-16d BOX (3	3 ¹ / ₂ " x 0.135")	AT EAC	H JOIST OR RAFTER, FACE NAIL	
BRIDGING OR BLOCKING TO JOIST		2-10d BOX (BOX (3" x 0.128") EACH END, TOENAIL		EACH END, TOENAIL	
		FASTNER SCHEDULE FOR	STRUCTURAL MEMBERS			
ESCRIPTION OF BUILDING MATERIALS			STRUCTURAL MEMBERS EDGE SPACING (INC		INTERMEDIATE SUPPORTS (INCHES)	
		MON (2" x 0.113") NAIL WALL) 8d COMMON NAIL	6		12	
3/8" - 1/2"						
¾" - ½" ¹ % ₃₂ " - 1"	8d COMM	(ROOF) ION NAIL (2 <mark>½</mark> " x 0.131")	6		12	

¹⁹ ⁄ ₃₂ " - 1"	8d COMMON NAIL (21/2" x 0.131")	6	12
11/8" - 11/4"	10d COMMON (3" x 0.148") NAIL OR 8d (2⅛" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL		
¹ / ₂ " STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$1\frac{1}{2}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{4}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$1\frac{3}{4}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{2}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
½" GYPSUM SHEATHING1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1¼" SCREWS, TYPE W OR S		7	1 7
1¾" GALVANIZED ROOFING N %" GYPSUM SHEATHING STAPLE GALVANIZED, 1%" LONG SCREWS, TYPE W OR S		7	7
WC	OOD STRUCTURAL PANELS, COMBINATIO	N SUBFLOOR UNDERLAYMENT TO FRAM	ING
⅔" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
7∕8 " - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

1. IF INFORMATION LISTED ON PLAN SHEETS CONTRADICTS INFORMATION IN THIS TABLE, INFORMATION ON PLANS TAKES PRECEDENCE OVER INFORMATION

6

10d COMMON (3" x 0.148") NAIL OR 8d

DEFORMED (2¹/₂" x 0.120") NAIL

11⁄8" - 11⁄4"

39.

41.

12

FOUNDATION NOTES

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CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLABS

THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION STANDARDS

PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT.

FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES.

FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40 #4 BARS WITH 3" BOTTOM CLERANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE FOR FROST PROTECTION.

CONCRETE PADS SUP0PORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE

FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0 REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE)

- INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
- BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND,

GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES 11. IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB

SHALL BE DESIGNED BY A LICENSED ENGINEER 12. SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH $\frac{1}{2}$ " Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 7" INTO CENTER OF WALL STEM AND SHALL BE INSTALLED AT A MAXIMUM OF 6'-0" O.C. (OR AS NOTED ON PLANS) AND SHALL BE INSTALLED WITHIN 6" TO 12" OF EACH END OF EACH SILL PLATE LENGTH, PER IRC SECTION R403.1.6 13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET

14. THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES TO THE EXTERIOR, ABOVE GRADE

FRAMING NOTES

S2.0

ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE ON PLANS

BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS

INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A MINIMUM OF 3 ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED

OTHERWISE

20. WHERE JOISTS SPAN PARALLEL TO FOUNDATION, BLOCKING SHALL BE PROVIDED IN THE TWO SPACES MOST ADJACENT TO THE FOUNDATION WALL AT 4'-0" O.C. FOR THE PURPOSE OF TRANSFERRING LATERAL FOUNDATION WALL LOAD TO THE FLOOR DIAPHRAGM. FASTEN JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10d NAILS. IF MECHANICAL DUCTWORK IS INSTALLED IN ONE OF THESE FIRST TWO BAYS, FASTEN 2x4's FLAT AT 4'-0" O.C. BETWEEN JOIST(S) AND/OR SILL AND PROVIDE BLOCKING AS PRESCRIBED ABOVE IN THE NEXT TWO JOIST BAYS. SECURE 2x4's TO JOIST(S)/SILL PLATE WITH (4) 10d NAILS. ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT

MATERIAL JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD.

23. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE COLD-FORMED STEEL JOIST HANGERS

24. JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1// "IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3

ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.

ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND ROOF

BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH A $\frac{1}{2}$ " GYPSUM BOARD MEMBRANE OR RESIDENTIAL FIRE SPRINKLER SYSTEM WHEN FLOOR SYSTEM IS CONSTRUCTED OF OTHER THAN DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2x10 NOMINAL DIMENSION(WHERE REQUIRED BY ENFORCING JURISDICTION)

30. ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi

ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. $\frac{1}{2}$ " x 2" BOLTS SHALL THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED 33. IN A WALL COMMON WITH ADDITIONAL LIVING AREA. ONE VENT SHALL BE LOCATED SUCH THAT THE BOTTOM OF THE VENT BEGINS 12" FROM THE FLOOR AND THE OTHER VENT SHALL BE LOCATED SUCH THAT THE TOP OF THE VENT BEGINS 12" FROM THE CEILING.

34. ALL ROOF SHEATHING SHALL BE ⁷/₁₆" OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

GLAZING NOTES

35. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 2'-0" ARC OF THE DOOR IN A CLOSED POSITION AND FOR WHICH THE BOTTOM EDGE IS WITHIN 5'-0" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 5'-0" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS, GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING NINE SQUARE FEET AND FOR WHICH THE BOTTOM EDGE IS LESS THAN 1'-6" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 3'-0" 36. ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

ATTIC VENTILATION

ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH $\frac{1}{6}$ " TO $\frac{1}{4}$ " OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN $\frac{1}{150}$ OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

EMERGENCY EGRESS

PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF ONE SMOKE ALARM WILL ACTIVATE ALL SMOKE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE DETECTORS OUTSIDE EACH SLEEPING AREA.

MASONRY VENEER

40. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1¹/₂", WITH NOT LESS THAN $\frac{5}{8}$ " MORTAR OR GROUT COVER TO OUTSIDE FACE.

- VENEER TIES, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAGE WIRE AND SHALL HAVE A HOOK EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS THAN NO. 22 U.S. GAGE BY 7/8" CORRUGATED.
- 42. EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY.
- 43. VENEER TIES AROUND WALL OPENINGS: ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

GARAGE NOTES

- DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1%" SOLID CORE OR HONEY-COMBED STEEL DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE 45. VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST
- LOADING PER DASMA 108 AND ASTM E 330-96 PER IRC 2018

GARAGE NOTES (CONTINUED)

- THE GARAGE SHALL BE SEPARATED FROM THE DWELL 44 MINIMUM 5/8" GYP. BOARD APPLIED TO THE GARAGE SID HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE SHALL BE PROTECTED WITH A MINIMUM 5/1 TYPE X GYP FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARA
- SUPPORTING THE SEPARATION SHALL ALSO BE PROTE 45 GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF TH BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VER FLOOR TO CEILING AND SHALL BE FASTENED WITH 2¹/₂" STAGGERED WITH (7) 3¹/₄" x 0.120" NAILS THROUGH THE MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER

DESIGN LOADING (PER TABLE R301.5)

MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (PSF)						
USE	LIVE LOAD	DEAD LOAD				
UNINHABITABLE ATTICS WITHOUT STORAGE	10	10				
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	10				
HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS	30	10				
BALCONIES (EXTERIOR) AND DECKS	40	10 ^d				
FIRE ESCAPES	40	10				
GUARDRAILS AND HANDRAILS ^a	200 [°]	-				
GUARDRAIL IN-FILL COMPONENTS ^b	50 [°]	-				
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON SLAB CONSTRUCTION				
ROOMS OTHER THAN SLEEPING ROOM	40	10 ^d				
SLEEPING ROOM	30	10 ^d				
STAIRS	40	10 ^d				

a. A single concentrated load applied in any direction at any point along the top. b. Guard in-fill components (all those except the handrail), ballusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to one square foot. This load need not be assumed to act concurrently with any other live load requirement. c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the infill components. These loads shall be determined independently of one another, and loads are assumed not to occur with any other live load. d. An additional dead loading of 10 psf shall be applied where thinset tile floor is to be installed. An

additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed.

INSULATION/EFFICIENCY

- BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)
- CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38. IF VAULTED RAFTERS DO NOT PROVIDE REQUIRED DEPTH TO ACHIEVE R-38 INSULATION BUILDER SHALL FUR DOWN RAFTERS PER DETAILS PROVIDED ON SHEET S3.1.

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (TABLE N1102.1.1)

CLIMATE ZONE	4-A
FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.55
GLAZED FENSTRATION SHGC	0.40
CEILING R-VALUE	49
WOOD FRAME WALL R-VALUE	15
MASS WALL R-VALUE	8 / 13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
SLAB R-VALUE AND DEPTH	10 AT 2'-0"
CRAWL SPACE WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
DUCTWORK EXPOSED TO OUTSIDE AIR R-VALUE	8
DUCTWORK NOT EXPOSED TO OUTSIDE AIR R-VALUE	6
CATHEDRAL VAULTED CEILING R-VALUE	38

DUCT SEALING

N1103.2.2 (R403.2.2) SEALING (MANDATORY). DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF 2018 IRC. **EXCEPTIONS:**

- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED 1. WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.
- DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING: POST-CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM 1. PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED
- OR OTHERWISE SEALED DURING THE TEST. ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE

TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA. **EXCEPTION:** THE TOTAL LEAKAGE TEST IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

ME	ECHANICAL VENTILATIO	
FAN LOCATION	AIR FLOW RATE	MINIMUM EFFICA
TAN ECCATION	MINIMUM (CFM)	(CFM/WATT)
RANGE HOODS	ANY	2.8
IN-LINE FAN	ANY	2.8
BATHROOM, UTILITY ROOM	10	1.4
BATHROOM, UTILITY ROOM	90	2.8

ING AND ITS ATTIC AREAS BY
DE OF FRAMING. WHERE
GARAGE CEILING ASSEMBLY
P. BOARD. WHERE A
GE COLUMNS AND BEAMS
ECTED WITH 5/8" GYP. BOARD.
HE TRACK AND COUNTER
RTICAL JAMBS RUNNING FROM
"" x 0.120" NAILS AT 7" O.C.
E JAMB INTO THE HEADER.
R BALANCE SYSTEM.

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DATE

DRAWING TITLE

DATE: 06-14-21

SHEET NUMBER

REVISION

STRUCTURAL

NOTES

ENGINEER: DMH CHECKED BY: DMH

JOB NO. 3569 DRAWN BY: DMH

AIR FLOW RATE

MAXIMUM (CFM)

ANY

ANY

90

ANY

RESIDENTIAL SEISMIC & WIND ANALYSIS

DETERMINE WEIGH	T OF HOUSE:						CALCULA
LOCATION	LOCATION					AREA (ft ²)	WEIG
ROOF					10	2892	28
CEILING				•	10	2892	28
FIRST FLOOR					10	2892	28
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIG
FIRST FLOOR EXT. V	VALL DL			225.34	10	10	22
					DEAD LOAD (psf)	AREA (ft2)	WEIG
FIRST FLOOR INT. P.	ARTITION WALL DL				6	2892	17
							·
	PRC	JECTED AREAS (WIND	DESIGN PER 115 MPH 3	3-SECOND GUST, EXPOSL	JRE C AND MEAN ROOF HEIGHT <= 3	0 FT ASSUMED)	
	FRONT	-TO-BACK			SIDE-TO-S	IDE	
	AREA	LOAD			AREA	LOAD	
SLOPED ROOF	475	3997		SLOPED ROOF	626	5326	
VERT. ROOF	231	2839	CUMULATIVE	VERT. ROOF	0	0	CUML
1ST	660	8112	15020	1ST	579.37	7203	12
BSMT ^a	0	0	0	BSMT ^a	129	1827	8
			PRESSURE (PSF	-) - PER ASCE CH. 6			
	SLOPED ROOF	ZONE B		9.7	ZONE C	11.3	2a (FIG. 28
	WALL/VERT. ROOF	ZONE A		14.2	ZONE D	7.7	10
	MEAN ROOF HT., h		23.5				

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area. q_{z10_ASD}=0.6q_{z10} (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012) q_{z10} =0.00256K_zK_{zt}K_dV² (ASCE7-10 Velocity Pressure)

1ST FLOOR TRIBUTARY WEIGHT BASEMENT TRIBUTARY WEIGHT

S_S (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP)

F_a (from ASCE7 Table 11.4-1) S_{DS} (= 2/3 * S_S * F_a)

R (from ASCE7 Table 12.2-1)

		SEISMIC SHEAR			
LOCATION		Fro	m ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W	/ / R) (lbs.)
1ST FLOOR				1633	
BASEMENT				1633	
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allow	able Shear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing		155	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 4" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing		230	per IBC, Table 2306.3(1)
Exterior <u>(Option #3)</u>	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing		310	per IBC, Table 2306.3(1)
Exterior <u>(Option #4)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	I	220	AF&PA SDPWS Table 4.3A
Exterior <u>(Option #5)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	I	320	AF&PA SDPWS Table 4.3A
Exterior <u>(Option #6)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each pane edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C.		410	AF&PA SDPWS Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 ¹ / ₄ " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field		60	per IBC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacture specifications - see detail on sheet S3)		325	
EXTERIOR SHEATHING OPTION FOR F	FIRST FLOOR 4	WIDTH OF 1ST STORY (FT.)	60	WIDTH OF 2ND STORY (FT.)	9
EXTERIOR SHEATHING OPTION FOR E	BASEMENT WALLS 6	DEPTH OF 1ST STORY (FT.)	52.67	DEPTH OF 2ND STORY (FT.)	
			30		u U
		BACK WALL OF GARAGE (FT.)	30		

EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	4	WIDTH OF 1ST STORY (FT.)	60
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	6	DEPTH OF 1ST STORY (FT.)	52.67
		BACK WALL OF GARAGE (FT.)	30
		GAR. WALL: 1=F-B, 2=S-S	2

			EXTER	IOR STRUCTURAL WALL I	ENGTHS (ft.) & RESISTANCES			
		SE	ISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
1ST FLOOR	77	21560	47	13160	77	30184	47	18424
BASEMENT	0	0	30	14100	0	0	30	19740
lê.				_				
		ADDITIONAL RESIS	TANCE REQUIRED		Anchor Bolt Spacing	(in.)	16d Nail Spacing req'd at	bottom plate (in.)
		SEISMIC	WIND		diameter (in.)	0.5	1st Floor F-B	19
1ST FLOOR FRONT-TO-BACK 0 0			Shear value (per NDS)	944	1st Floor S-S	26		
1ST FLOOR SIDE-TO-	SIDE	0	0		Spacing F-B (inches)	127.1		

1ST FLOOR SIDE-TO-SIDE	0	0		Spacing F-B (inches)	127.1	
BASEMENT FRONT-TO-BACK	0	0		spacing S-S (inches)	172.6	
BASEMENT SIDE-TO-SIDE	0	0				
-			-			
		DECISTANCE DECU			ALL 0**	

RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**								
	ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?	
1ST FLOOR FRONT-TO-BACK	0					0	YES	
1ST FLOOR SIDE-TO-SIDE	0					0	YES	
BASEMENT FRONT-TO-BACK	0					0	YES	
BASEMENT SIDE-TO-SIDE	0					0	YES	

**NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE), 2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-8" OR LONGER

ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRED

	WIND UPLIFT ANALYSIS						
	X/12	DEGREES			_		
ROOF PITCH (MAX)	12	45.0	PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2			
	ASCE 7						
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
OVERHANG	1	-1.08	227.34	-1.08			
	TOTAL AREA (FT ²)	ZONE E AREA (FT ²)	ZONE G AREA (FT ²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**	3160.2	-401.724624	3561.924624	-1.08	-0.36	-848	-3.8
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FO		FOOT ALONG EXTERIOR (PO	UNDS)	-4.8	UPLIFT OK	
**INSIDE EXTERIOR WALLS RESISTANCE DUE TO DEAD WEIGHT &		VEIGHT & (3) 10d TOENAILS		251.6			

NOTE FOR CONSTRUCTION:

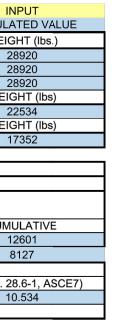
THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX., UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS

NOTE FOR DESIGN:

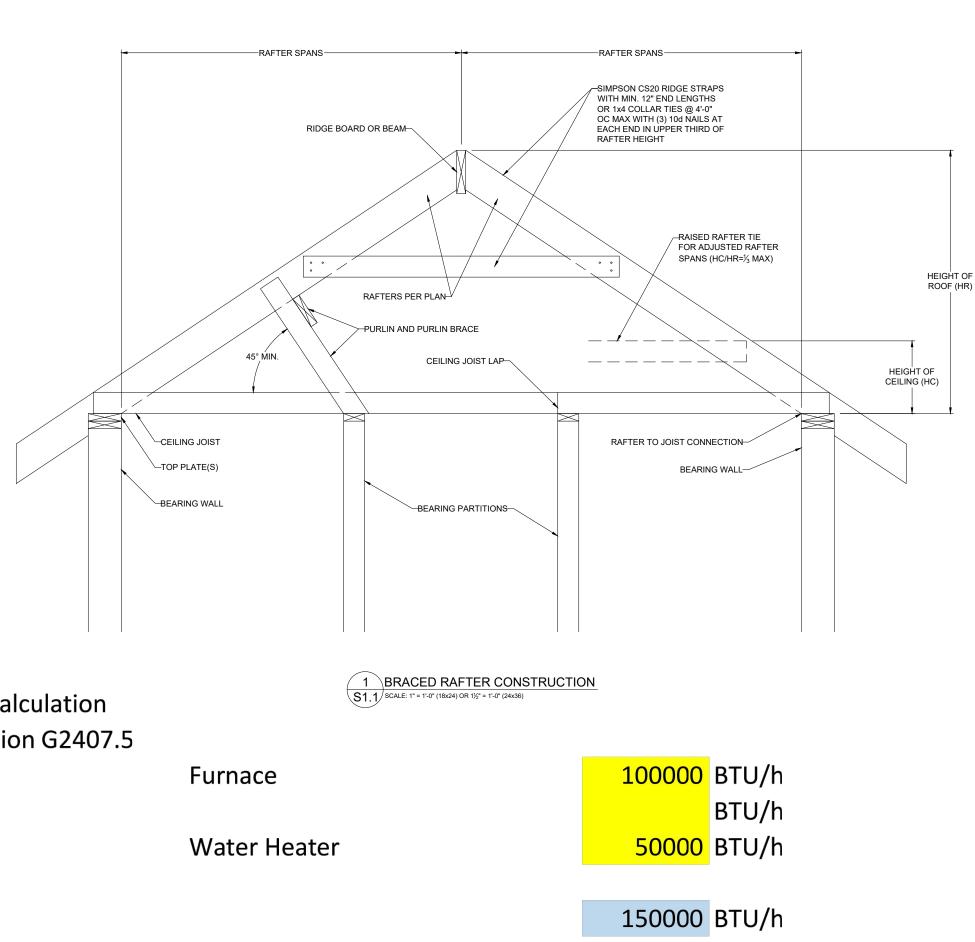
ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240 A WIND SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING

WITH CONSTRUCTION



69107 69107 12.0% 1.6 0.128 6.5



Combustion Air Calculation Per 2012 IRC Section G2407.5 Appliance #1 Appliance #2 Appliance #3

Total BTU/hr

Area of Combined Space (floor where appliances are located) 1055 ft Ceiling Height in Usable Space 8.5 ft

Note: Per 2012 IRC Section G2407.5.3.2, The volumes of spaces in different stories shall be considered as communicating spaces where such spaces are connected by one or more openings in doors or floors having a total minimum free area of 2 square inches per 1,000 BTU/h of total input rating of all appliances

Is floor where appliances are located open to adjacent leve If Yes, what is the area of open space adjacent to applianc

Per 2012 IRC Section G2407.5.1 (Standard Method), the minimum required volume shall be 50 cubic feet per 1,000 BTU/hr (Total BTU/hr / 1,000 BTU/hr x 50 ft^3) Required air space in combined areas:

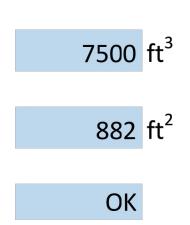
Required combined area:

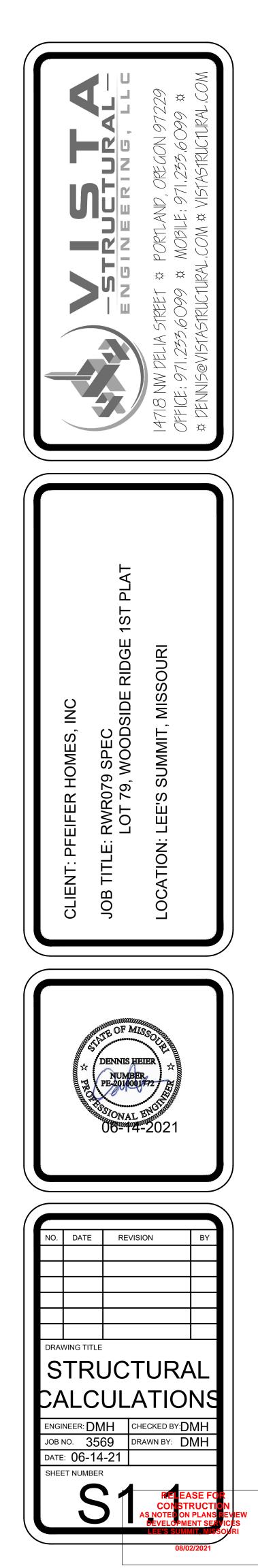
Area of Combined Space > Required combined area?

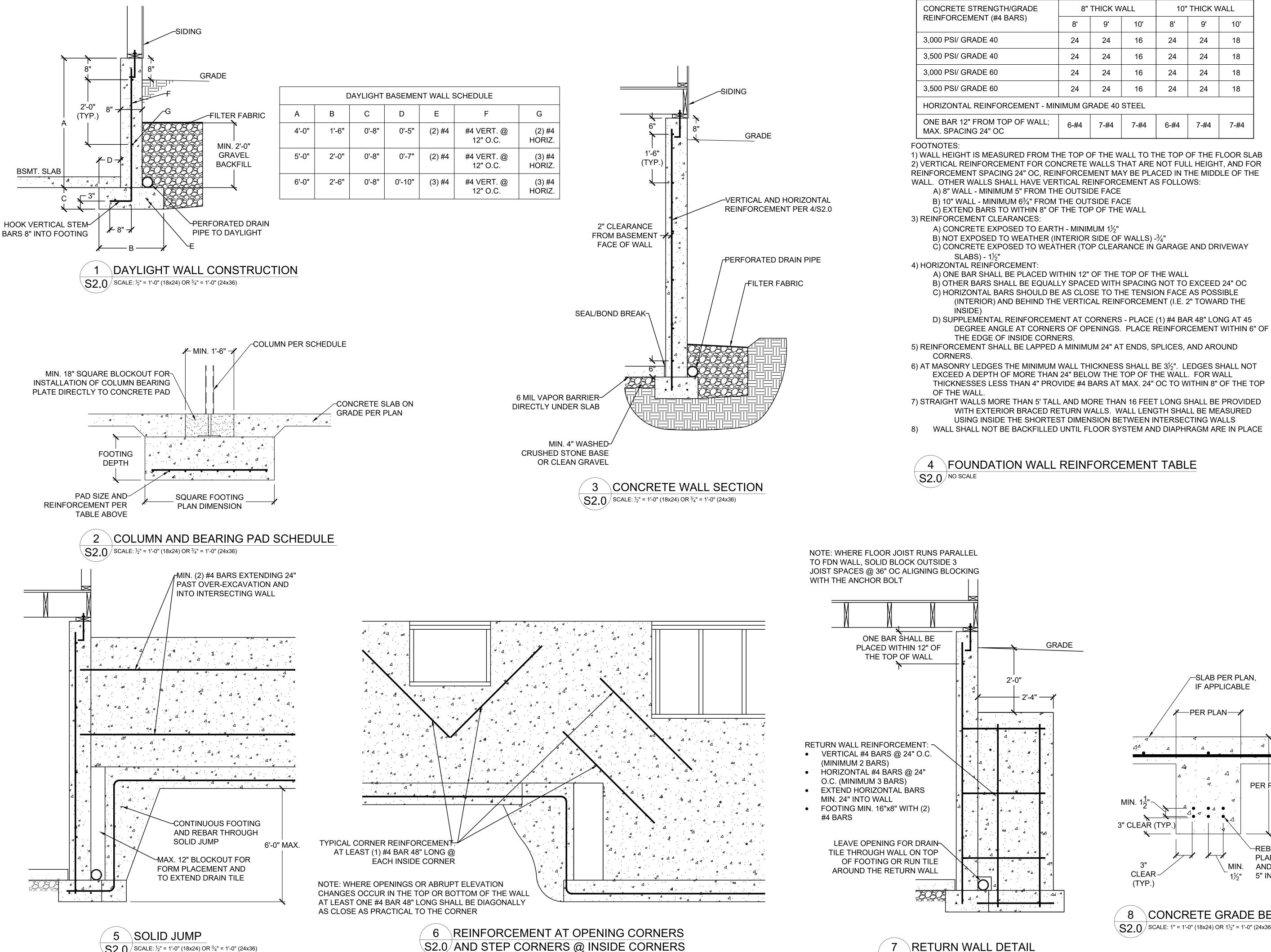
Per Section G2407.5.3.1, each opening shall have a minimum free area of 1 square inch per 1,000 BTU/hr of the total input rating of all appliances in the space, but not less than 100 square inches. One opening shall commence within 12 inches of the top and one opening shall commence within 12 inches of the bottom of the enclosure. The minimum dimension of air openings shall be not less than 3 inches.

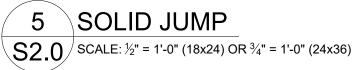
150 in² Minmum required opening area: Minimum grill size: 14 x 11 (inches) Note: two grills required - one within 12" of floor, one within 12" of clg.

vel?	Yes	
ce area?	0	







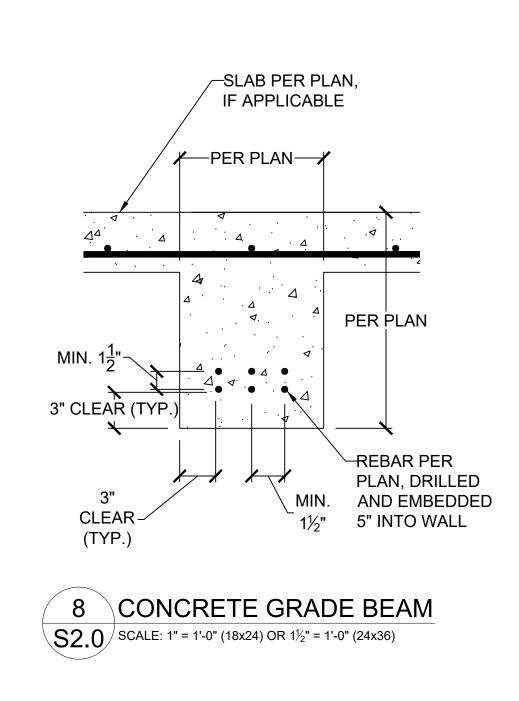




S2.0 AND STEP CORNERS @ INSIDE CORNERS SCALE: ¹/₂" = 1'-0" (18x24) OR ³/₄" = 1'-0" (24x36)

GRADE

SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)



Ω 1ST RIDGE SIDE Ξ O ш OMF SPI WO တ ດ NO NO КШ S Ш Ë 2 :NOI CLIENT m REVISION DATE DRAWING TITLE FOUNDATION

DETAILS

ENGINEER: DMH CHECKED BY:DMH

DRAWN BY: DMH

јов no. 3569

DATE: 06-14-21

SHEET NUMBER

- **2** Ľ

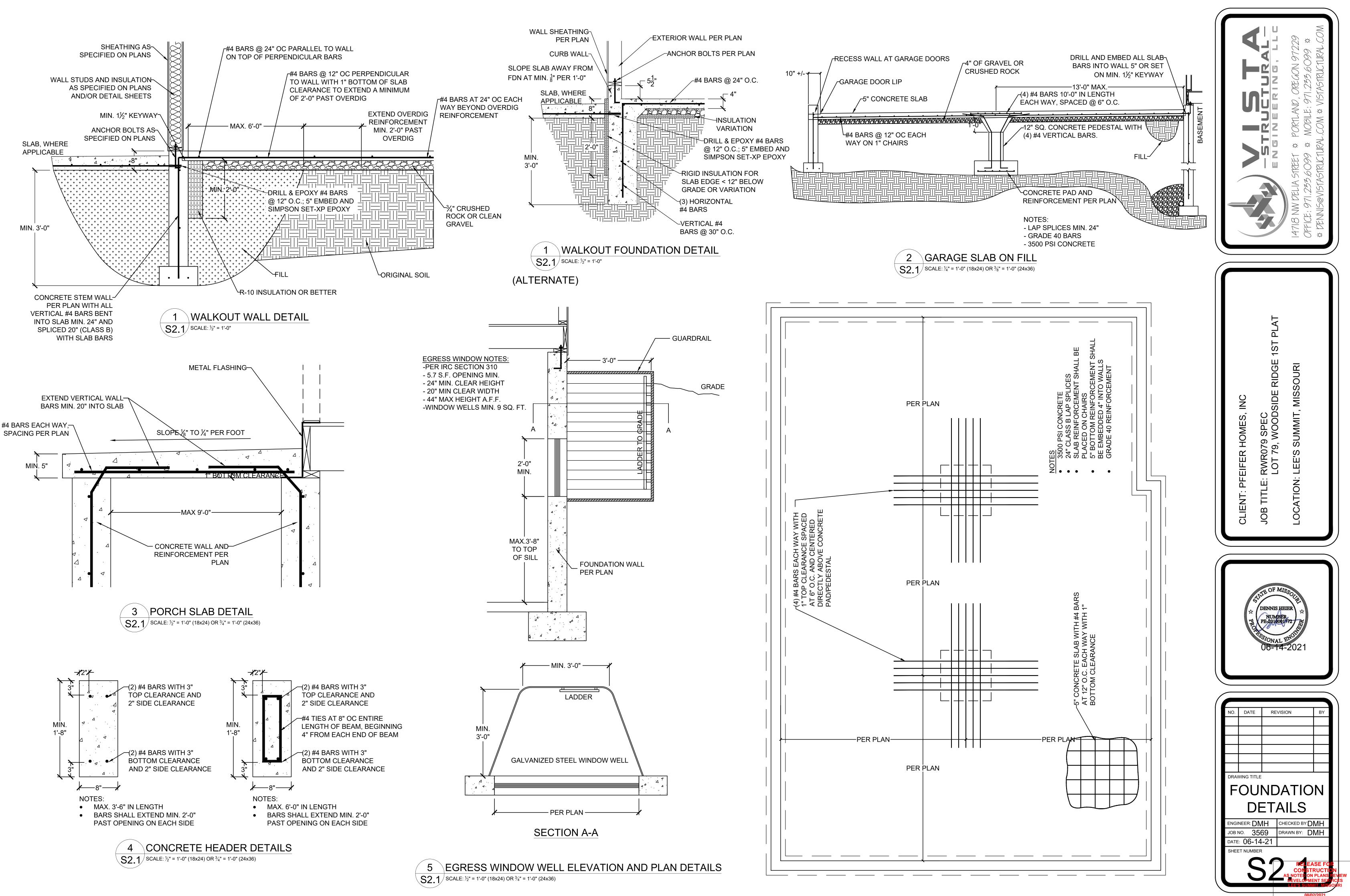
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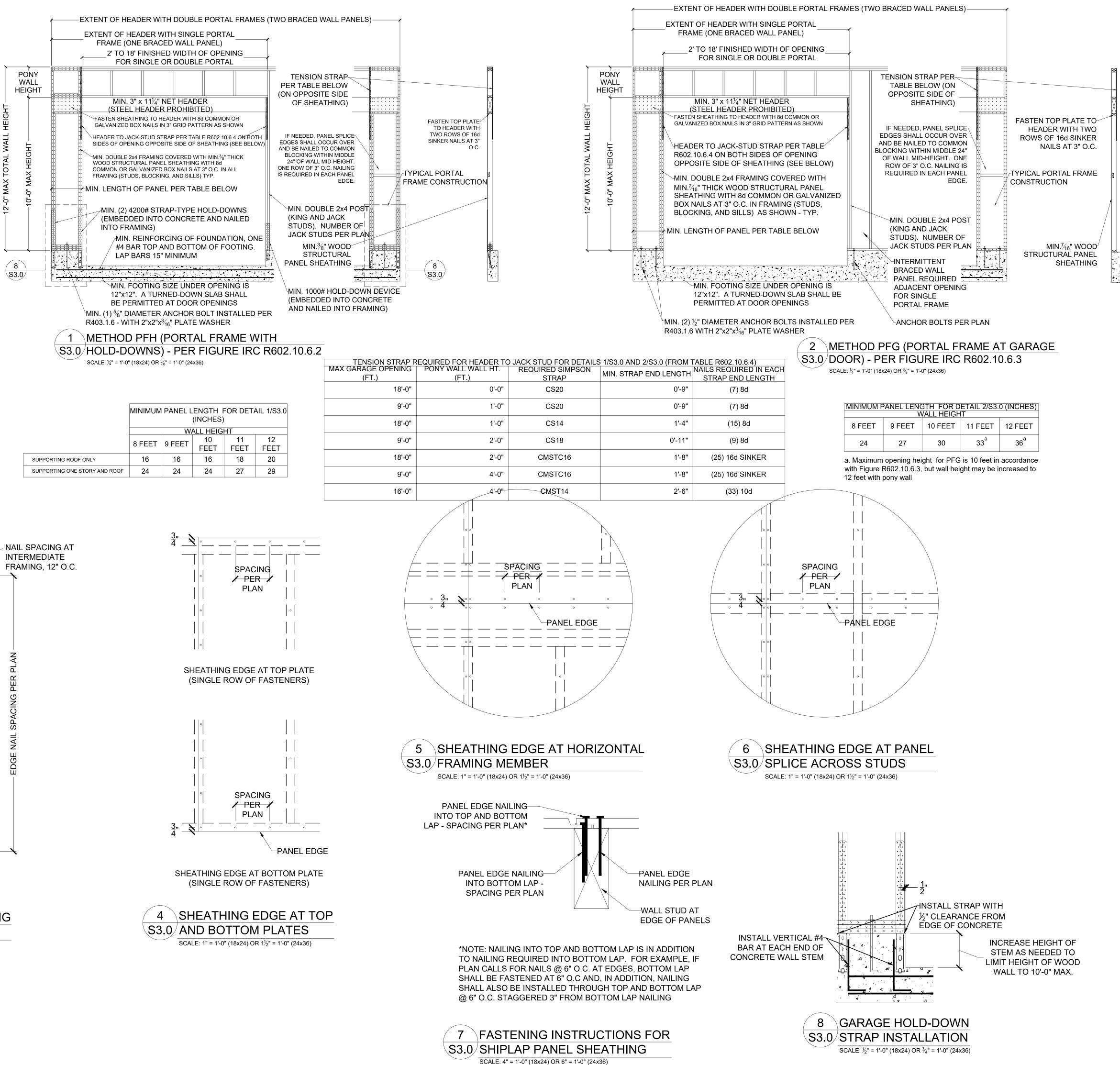
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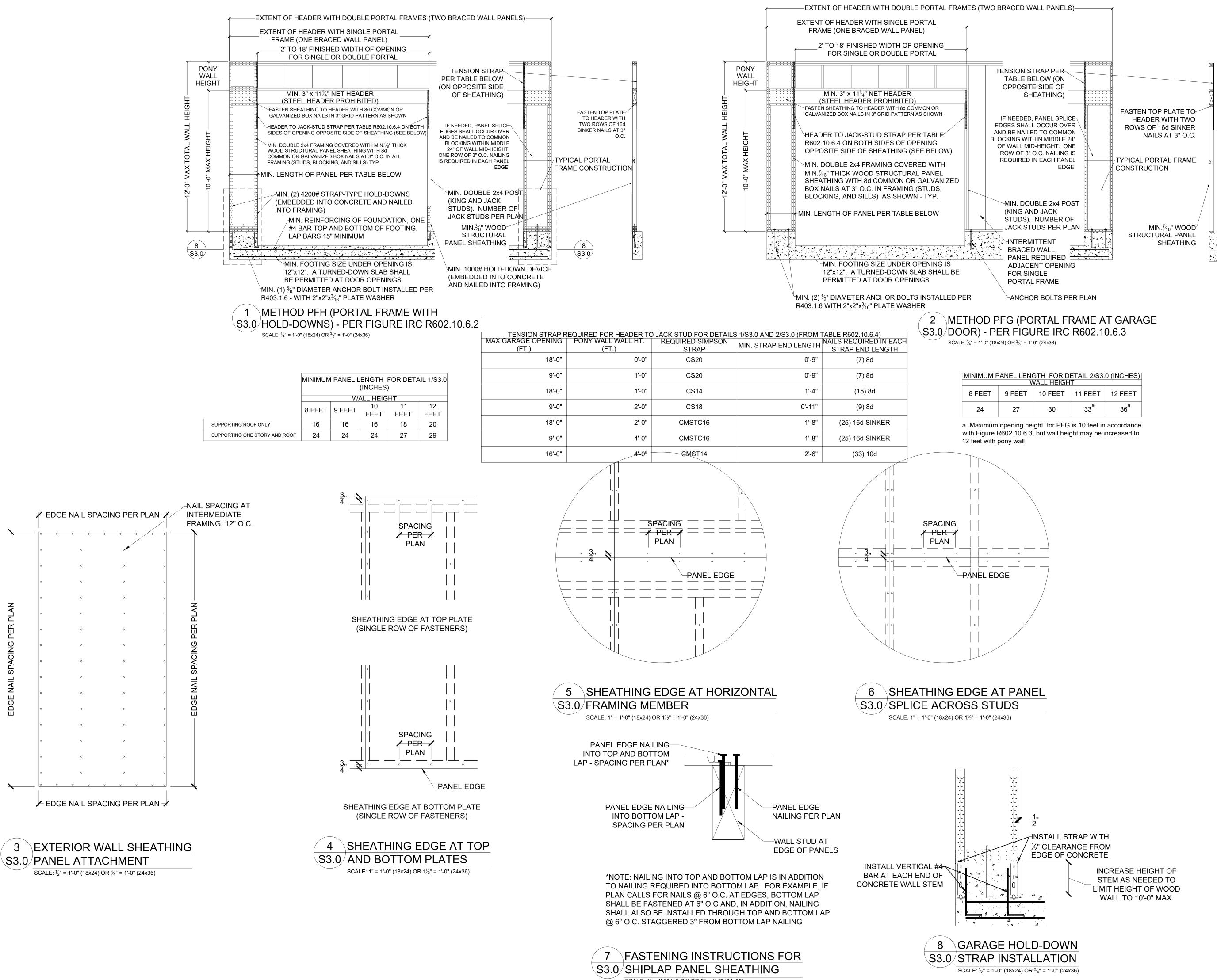
1) WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB 2) VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT, AND FOR

VERTICAL REINFORCEMENT SPACING							
CONCRETE STRENGTH/GRADE	8"	THICK W	'ALL	10" THICK WALL			
REINFORCEMENT (#4 BARS)	8'	9'	10'	8'	9'	10'	
3,000 PSI/ GRADE 40	24	24	16	24	24	18	
3,500 PSI/ GRADE 40	24	24	16	24	24	18	
3,000 PSI/ GRADE 60	24	24	16	24	24	18	
3,500 PSI/ GRADE 60	24	24	16	24	24	18	
HORIZONTAL REINFORCEMENT - MINIMUM GRADE 40 STEEL							
ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" OC	6-#4	7-#4	7-#4	6-#4	7-#4	7-#4	

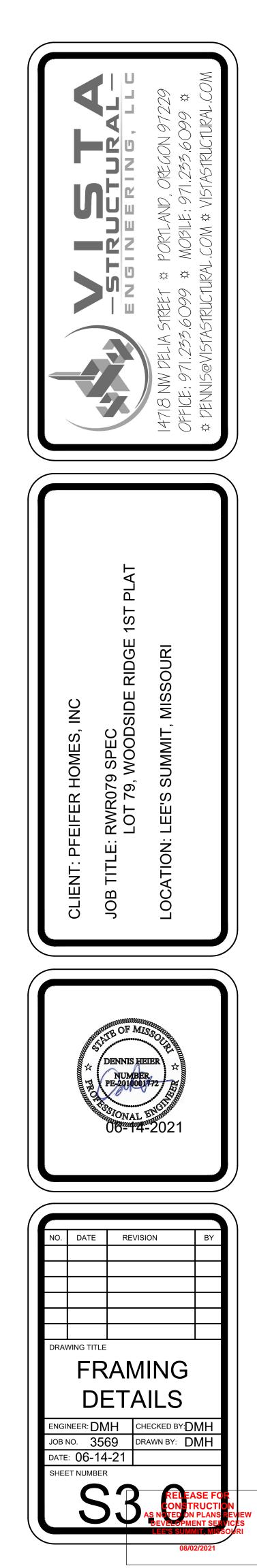


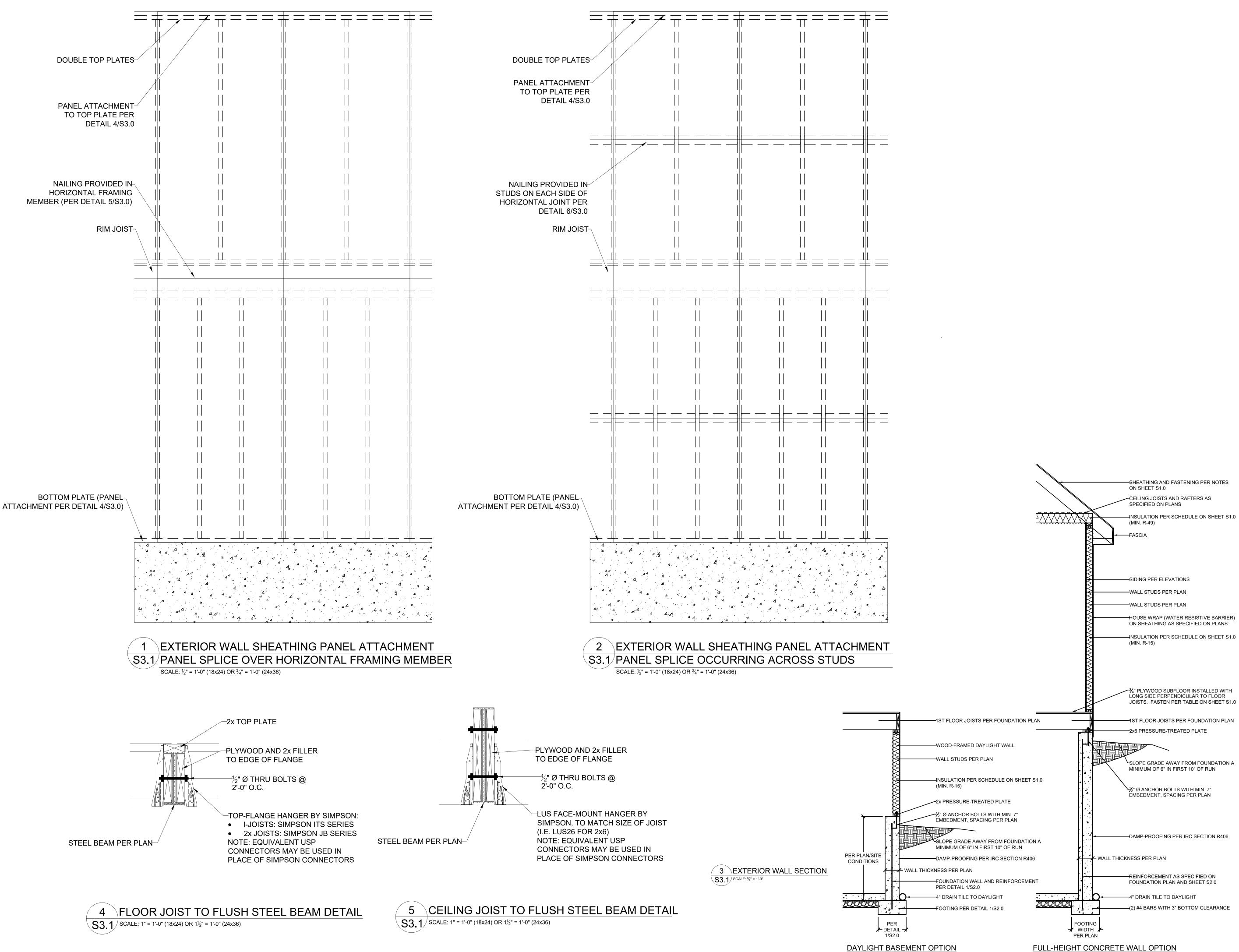


	MINIMUM PANEL LENGTH FOR DETAIL (INCHES)				
	WALL HEIGHT				
	8 FEET	9 FEET	10	11	
	OFEEI	9 FEET	FEET	FEET	F
SUPPORTING ROOF ONLY	16	16	16	18	
SUPPORTING ONE STORY AND ROOF	24	24	24	27	

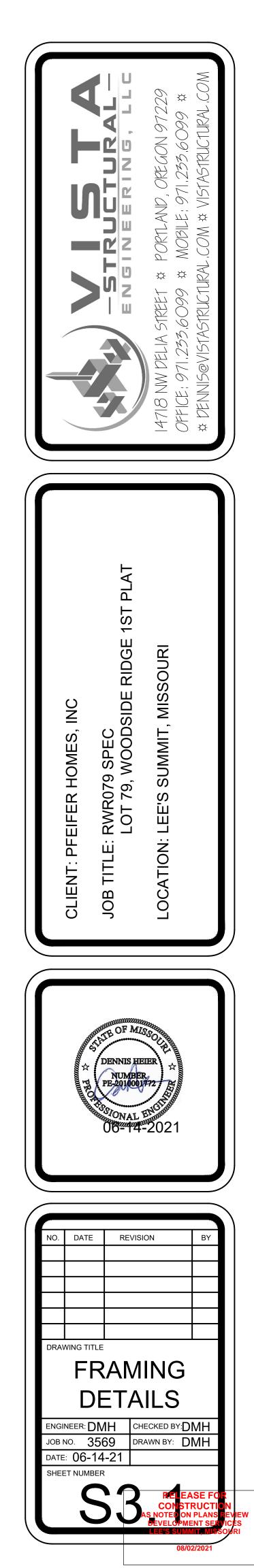


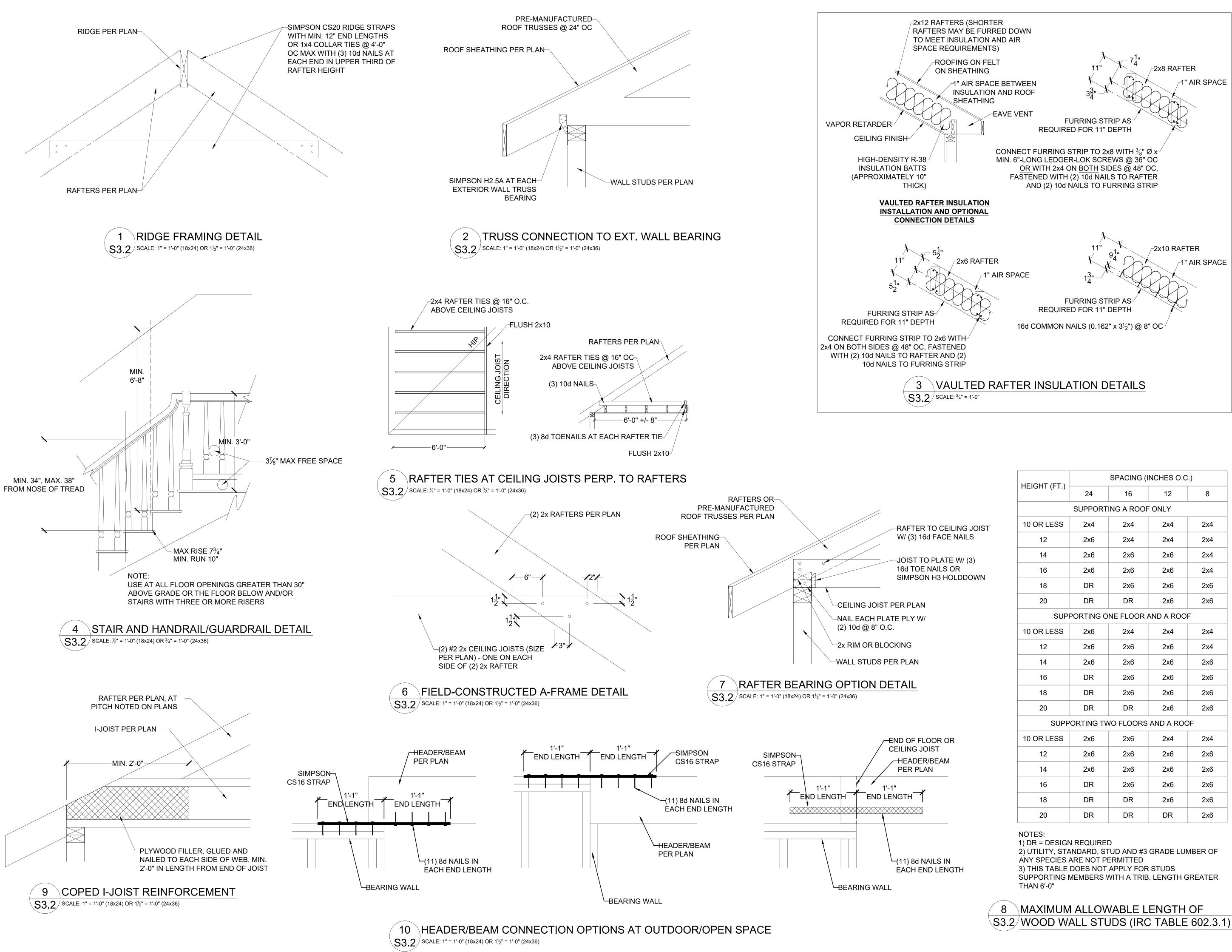
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET			
24	27	30	33 ^a	36 ^a			

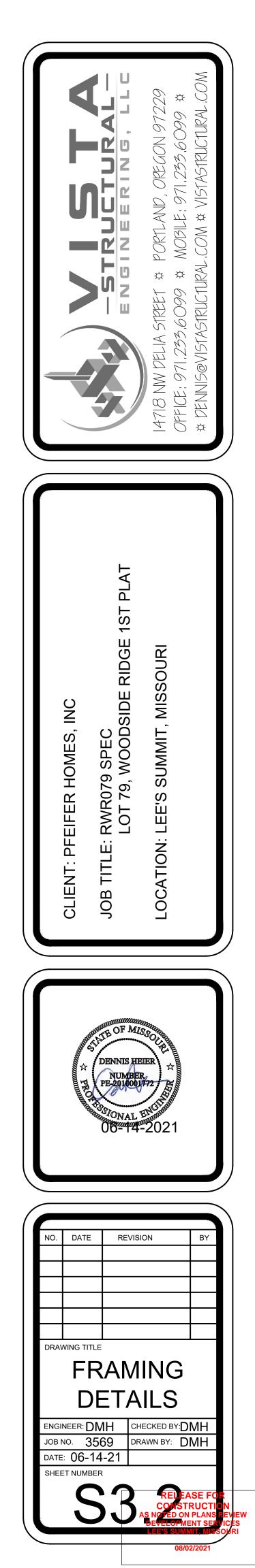


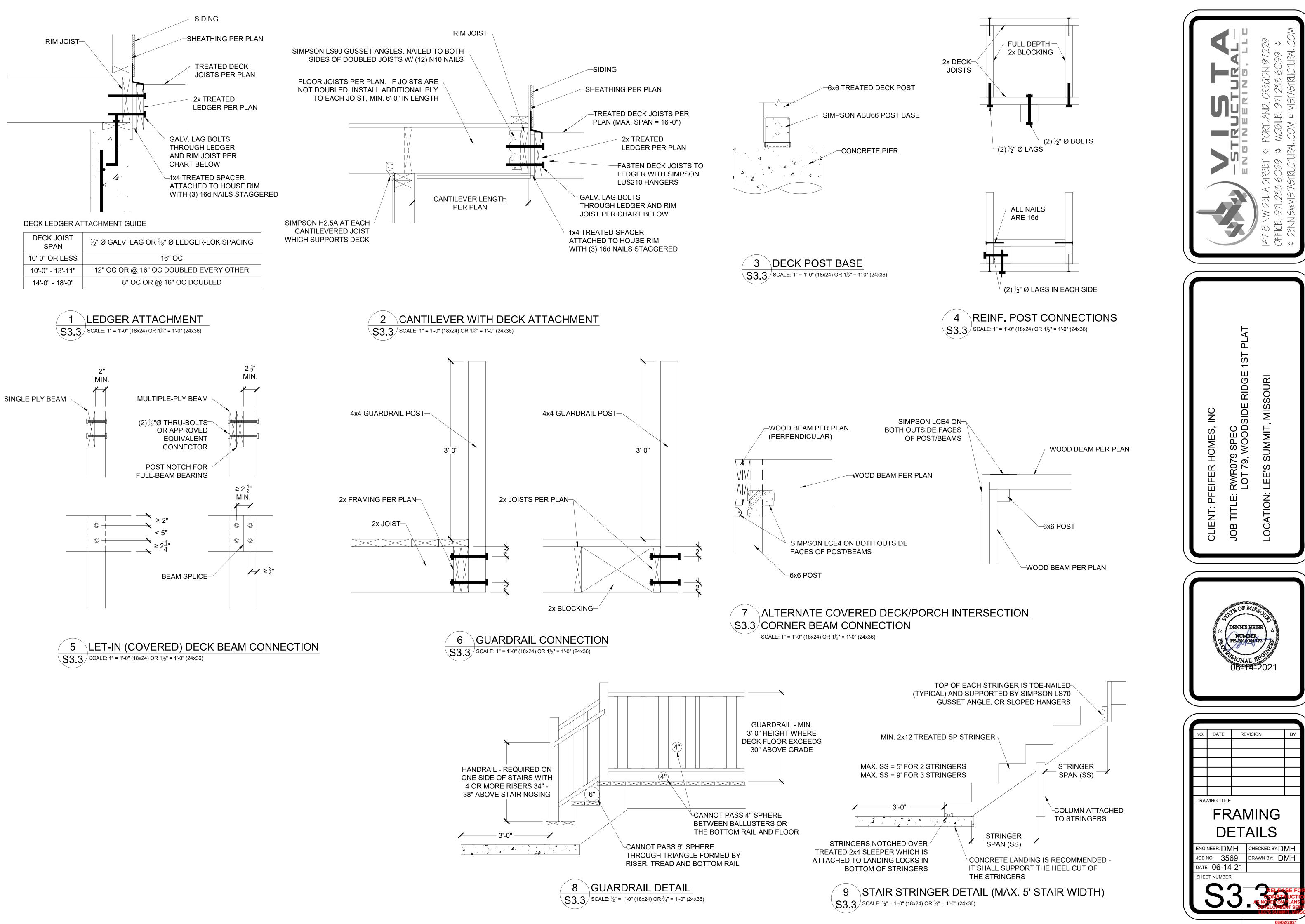


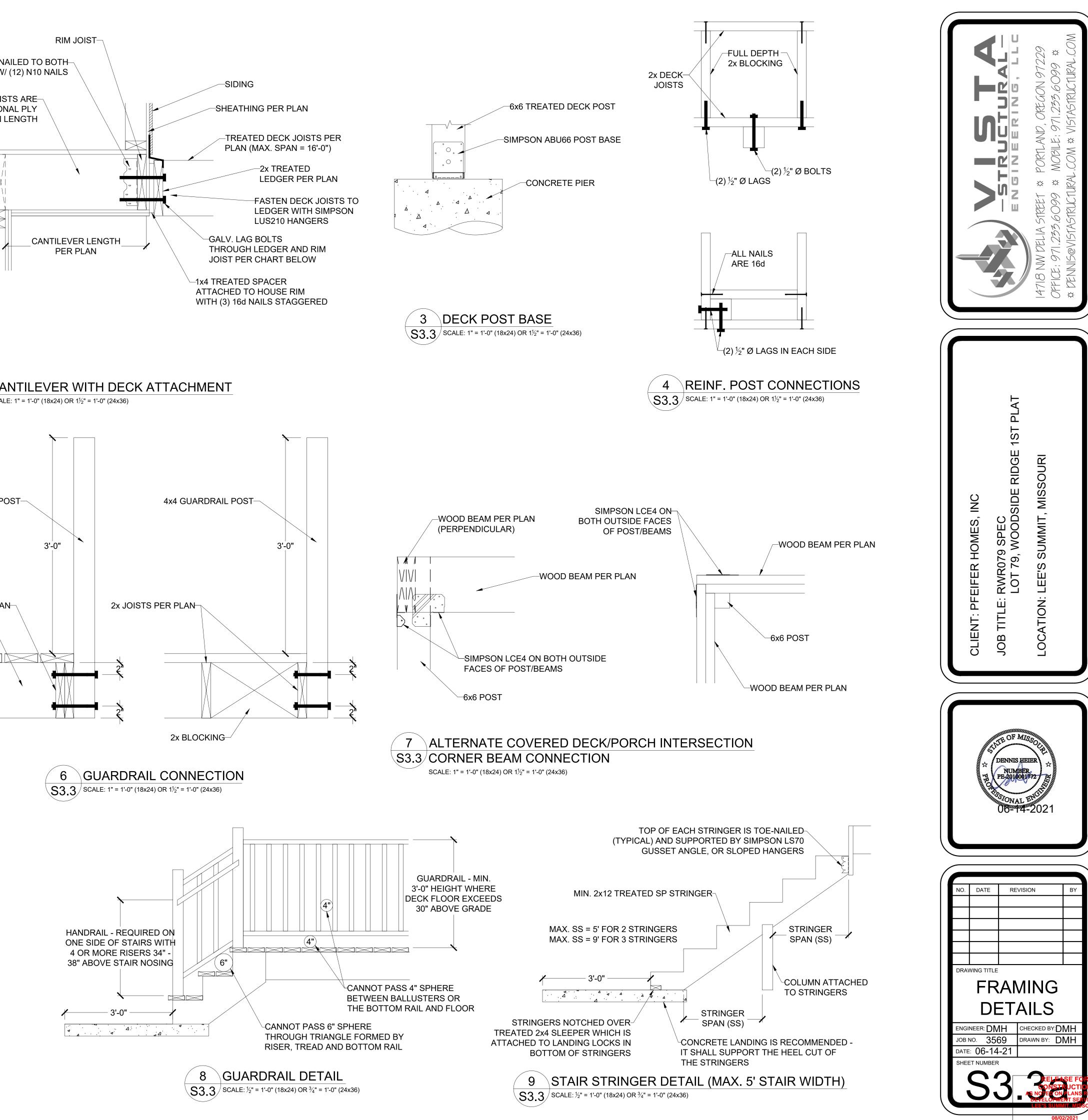
DAYLIGHT BASEMENT OPTION

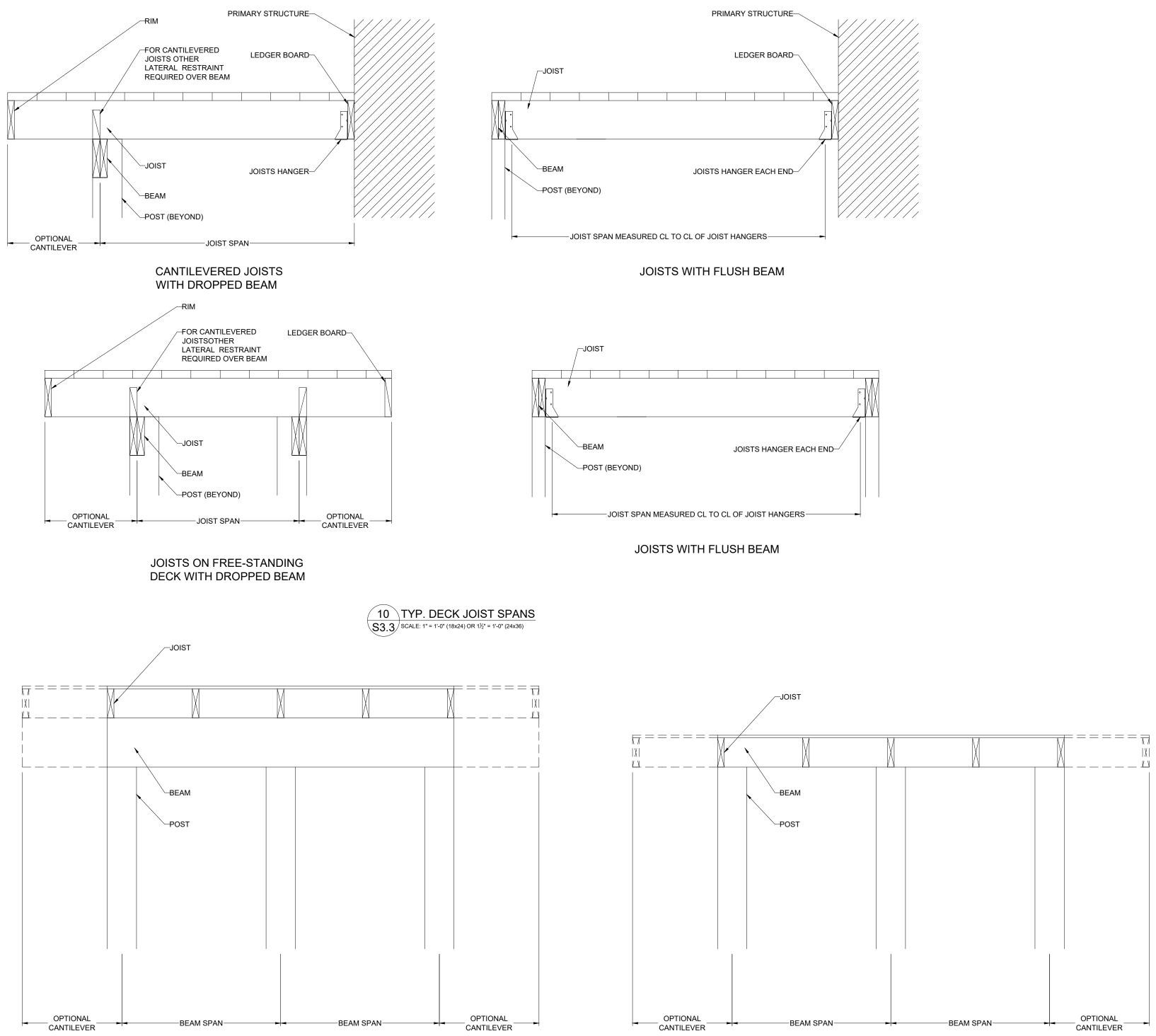












DROPPED BEAM

11 TYP. DECK JOIST SPANS S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

FLUSH BEAM

