

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

*All Rafters shall be 2' X 6' #2 @ 16' D.C., unless noted otherwise.

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE VALL DOUBLE TOP PLATE.

FLASHING NOTE: DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

RDDF NDTES: RDDF DESIGNED FOR LIGHT RDDF COVERING 30psf TOTAL LOAD [10psf DL, 20psf LL (SL)]

* RAFTERS (HEM-FIR, DDUG-FIR, DR EQUAL): SEE SPAN CHARTS BELDW

code minimum

	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN			
	#2-2x6	024 " D.C.	11′-7 ′			
$\rangle\rangle\rangle$	#2-2x6	0 16″ D.C.	14'-2 '	(((
	#2-2x8	024 * D.C.	14'-8 '			
	#2-2x8	0 16″ D.C.	17'-11 '			
	#2-2x10	024 " D.C.	17′-10 ′			
	#2-2x10	@16″ D.C.	21′-11 ′			
	NOTE: CODE	e minimum all	DWS FOR A RAFTER DEFLECTION	DF L/180	total I	LOAD

HIGHER PERFORMANCE (RECOMMENDED)

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN				
#2-2x6	024 " D.C.	8'-6"				
#2-2x6	@16" D.C.	9′-9 ′				
#2-2x8	@24″ D.C.	11'-3 '				
#2-2x8	@16″ D.C.	12'-9 '				
#2-2x10	024 " D.C.	14'-3 '				
#2-2x10	@16″ D.C.	16'-3 '				
DEELECTIC	$DFF = F(TIDN = 1/3K \cap TIVE) TAD + 1/2K \cap TTTA + TAD$					

DEFLECTION = L/360 LIVE LUAD, L/240 TOTAL LUAD

* VAULTS TO BE 2x10 DEPTH

* RIDGE BOARDS ARE: (UNLESS DTHERVISE NOTED) - #2- 2X8 UP TO 10/12 PITCH

- #2- 2X10 DVER 10/12 PITCH

* ALL HIPS & VALLEYS ARE: (UNLESS DTHERWISE NOTED)

- #2- 2X8 UP TO 10/12 PITCH

- #2- 2X10 DVER 10/12 PITCH * PURLINS ARE 2X6 MIN.

- PURLIN STRUTS ARE AT 4'-0' D.C.

- PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A

45 DEGREE ANGLE WITH THE HORIZONTAL

- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0" - PURLINS STRUTS SHALL BE CONSTRUCTED IN A

'T' CONFIGURATION AND PER THE FOLLOWING CHART:

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0 '
(1) 2x4 & (1) 2x6	12'-0'
(1) 2x6 & (1) 2x8	20'-0 '
(2) 2x6 & (1) 2x8	30'-0 '
CONSULT ARCH./ENGR. >	30'-0 '

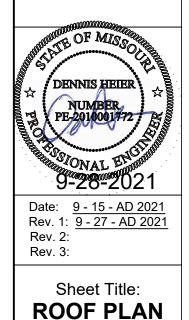
 * RIDGE BRACES ARE SAME AS PURLIN BRACES-SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NDTES ABDVE)
 * HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NDTES ABDVE)

 * VERTICAL BRACE IF DDT IS UNDER HIP DR VALLEY
 * SLASH IS TOP END OF BRACE (/), DDT IS BOTTOM OF BRACE (o).
 * ______ DENOTES BEARING WALL
 * ______ DENOTES ROOF BRACE

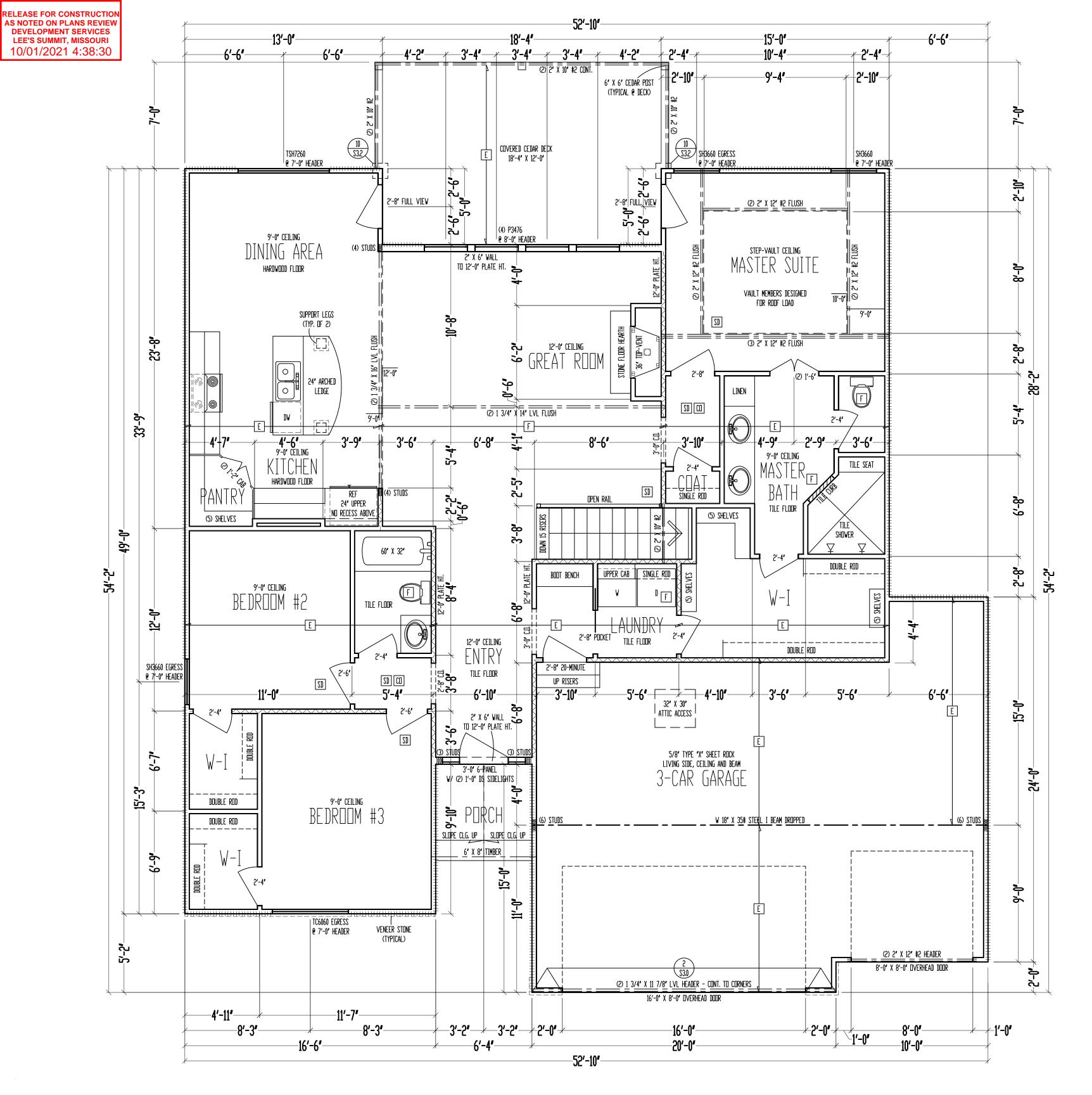
- *----- DENDTES PURLIN
- *----- DENDITES BEARING STRUCTURE

"For God so loved These plans and specifications are protected under federal copyright laws.	t he V n, in ish,	but have blueprints. Also, site conditions may vary from those illustrated on this plan. Designer everlasting life" does not warrant the suitability of these plans for use on your specific site. Consult your (John 3:16). architect to determine the suitability of these plans for your specific site and application.
"For G	Beed Beed RESIDENTIAL DESIGN LLC Drawing title	Office: (816)554-0400 Email: admin@viewpointdesign.net

The CATALINA Site Description: Lot 27, Homestead at Hook Farms Street Address: 2031 SW Hook Farms Dr., Lee's Summit, Missouri General Contractor: IQ Construction



Sheet No.:



9'-0" CEILING **MAIN LEVEL** SCALE: 1/4" = 1'-0"

MAIN LEVEL: 1750 SQ. FT.

GARAGE: 658 SQ. FT. UNFIN. BASEMENT: 1569 SQ. FT. COV. DUT/LIV: 227 SQ. FT.

++++++++++++++++++++++ = Wall bracing per framing note #1 and per calculations on sheet 51.1.

Framing Notes

1. MAIN LEVEL EXTERIDR WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. PANELS V/ 80 CDMMDN NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. \ \ \ \ \ \ \ \ \ \ \ = G.B: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ ND. 6 - 1 1/4" TYPE W DR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS DNE SIDE DF WALL (DR) MIN. 4'-0" SECTION FOR BOTH SIDES)

3. /////////// = LOAD BEARING INTERIOR WALL.

4. (2) 2' X 10' #2 Header at all exterior and load bearing Walls, unless noted otherwise. 5. Low ties @ 4'-0' D.C. (typical)

6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE VALLS.

7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.

9. All designated 2" X 6" walls shall have double king studs at door and window openings.

10. All UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED V/ MIN. STUD GRADE 2" X 4"S @ 16" D.C., UNLESS

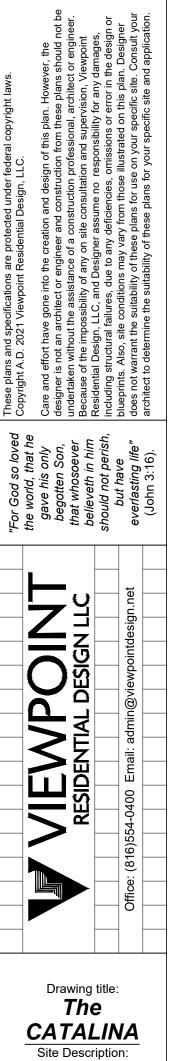
NOTED OTHERVISE. 12. Exterior Vall Bottom Plates Shall be nailed to framing below vith 16d Common Nails @ 8' D.C. Max. (Vhere Applicable.)

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:

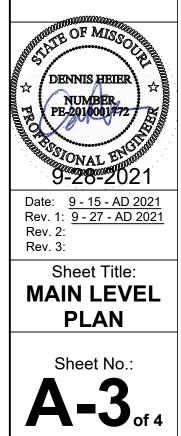
(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM (3) 1 3/4" LVL PLIES = 5 1/2" GLULAM

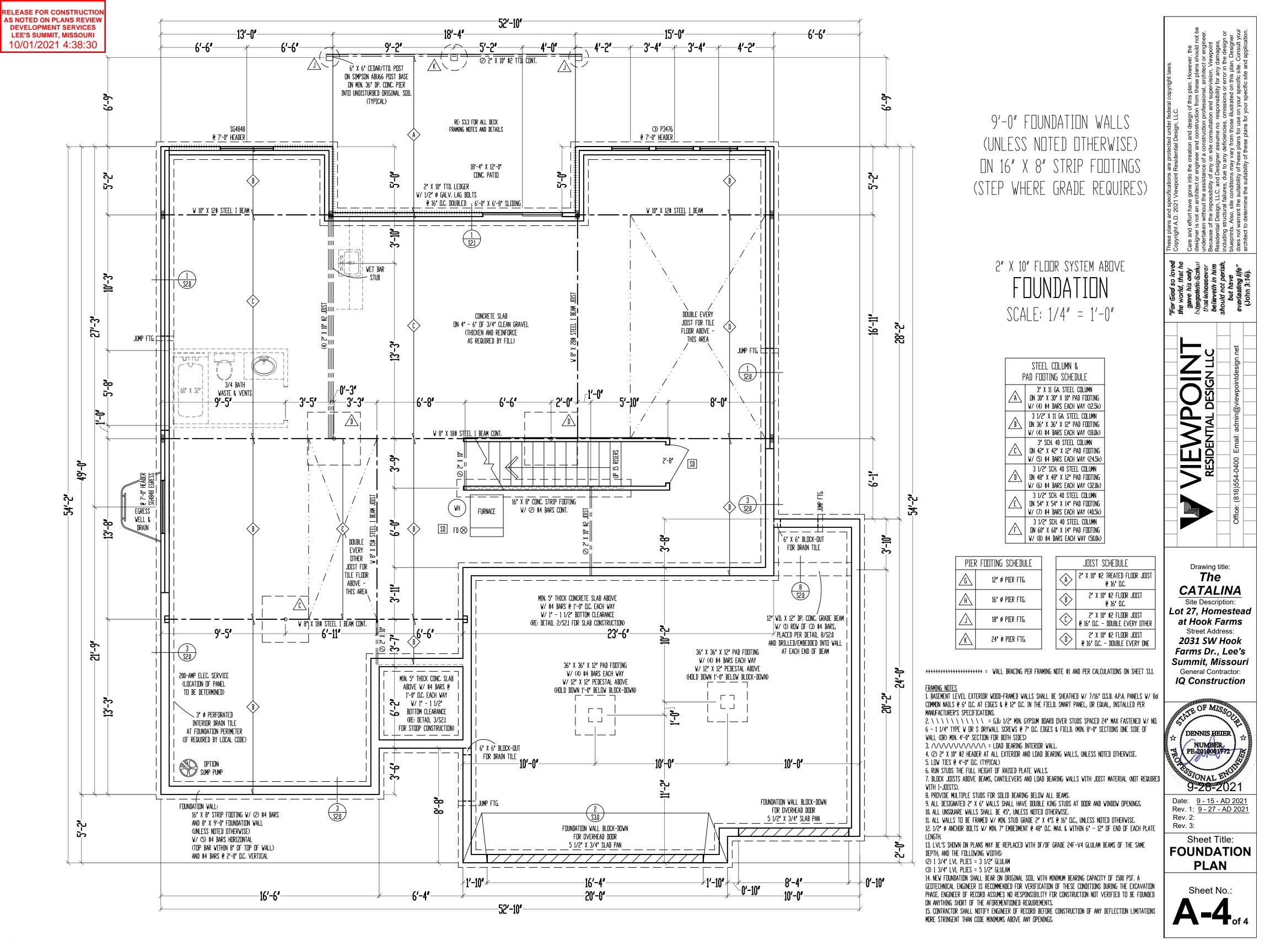
14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

	JOIST SCHEDULE								
E	2" X 6" #2 CEILING JOIST @ 16" D.C.								
F	2" X 8" #2 CEILING JOIST @ 16" D.C.								



Site Description: Lot 27, Homestead at Hook Farms Street Address: 2031 SW Hook Farms Dr., Lee's Summit, Missouri General Contractor: IQ Construction





RELEASE FOR C AS NOTED ON P				
DEVELOPMEN	IT SERVICES		FASTENER SCHEDULE FOR STRUCTURAL MEMBERS	
LEE'S SUMMI 10/01/202		N OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
10/01/202	1-4.00.00		ROOF ¹	
		EN JOISTS OR RAFTERS TO TOP LATE, TOE NAIL	4-8d (2½" x 0.113")	TOENAIL
	CEILING JO	ISTS TO PLATE, TOE NAIL	4-8d (2½" x 0.113")	PER JOIST, TOENAIL
		NOT ATTACHED TO PARALLEL OVER PARTITIONS, FACE NAIL	4-10d (3" x 0.128")	FACE NAIL
	CEILING JOIST TO	PARALLEL RAFTER (HEEL JOINT)	TBLE R802.5.2	FACE NAIL
	COLLAR TIE TO RA RIDGE	FTER, FACE NAIL OR 1 ¹ / ₄ " x 20 GA. E STRAP TO RAFTER	4-10d (3" x 0.128")	FACE NAIL, EACH RAFTER
	RAFTER OR ROOF TRUSS TO PLATE		3-16d BOX NAILS (3½" x 0.135") OR 3-10d COMMON NAILS (3" x 0.148")	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
		S TO RIDGE, VALLEY, OR HIP F RAFTER TO MINIMUM 2" RIDGE BEAM	4-16d (3 ½" x 0.135") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL
			WALL	
	STUD TO STUD (1	NOT AT BRACED WALL PANELS)	10d (3" x 0.128")	16" O.C. FACE NAIL
		D AND ABUTTING STUDS AT ALL CORNERS (AT BRACED WALL PANELS)	16d (3½" x 0.135")	12" O.C. FACE NAIL
	BUILT-UP HEADEF	R, TWO PIECES WITH ½" SPACER	16d (3½" x 0.135")	12" O.C. EACH EDGE FACE NAIL
	CONTINU	IOUS HEADER TO STUD	4-8d (2½" x 0.131")	TOENAIL
	TOP PLATE TO TOP PLATE		10d (3" x 0.128")	12" O.C. FACE NAIL
			8-16d COMMON (3 ¹ / ₂ " x 0.162")	FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
		O JOIST, RIM JOIST, BAND JOIST, IOT AT BRACED WALL PANELS)	16d COMMON (3 ¹ / ₂ x 0.162")	16" O.C. FACE NAIL
		O JOIST, RIM JOIST, BAND JOIST, G (AT BRACED WALL PANEL)	3-16d BOX (3 ¹ / ₂ x 0.135")	3 EACH 16" O.C. FACE NAIL
	TOP OR SOLE PLATE TO STUD, END NAIL		4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL (SEE LEFT)
		S, LAPS AT CORNERS AND NTERSECTIONS	3-10d BOX (3" x 0.128")	FACE NAIL
	1" BRACE T	O EACH STUD AND PLATE	3-8d BOX (2 ½" x 0.113")	FACE NAIL
	1"x6" SHEA	THING TO EACH BEARING	3-8d BOX (2 ½" x 0.113")	FACE NAIL
	1"x8" SHEA	THING TO EACH BEARING	3-8d BOX (2 ½" x 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2 ½" x 0.113")	FACE NAIL
			FLOOR	
	JOIST TO SIL	L, TOP PLATE, OR GIRDER	4-8d BOX (2 ½" x 0.113")	TOE NAIL
		IOIST, OR BLOCKING TO SILL OR ROOF APPLICATIONS ALSO)	8d BOX (2 <u>2</u> " x 0.113")	4" O.C. TOE NAIL
	1" x 6" SUBFLO	OR OR LESS TO EACH JOIST	3-8d BOX (2 ¹ / ₂ " x 0.113")	FACE NAIL
	2" SUBFLO	OR TO JOIST OR GIRDER	3-16d BOX (3 <u>‡</u> " x 0.135")	BLIND AND FACE NAIL
	2" PLANKS (PLA	N & BEAM - FLOOR AND ROOF)	3-16d BOX (3 ½" x 0.135")	AT EACH BEARING, FACE NAIL
	BAND O	R RIM JOIST TO JOIST	3-16d COMMON (3 ¹ / ₂ " x 0.162")	END NAIL
	BUILT-UP GIRDEF	RS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	LEDGER STRIP SU	IPPORTING JOISTS OR RAFTERS	4-16d BOX (3 ¹ / ₂ " x 0.135")	AT EACH JOIST OR RAFTER, FACE NAIL
	BRIDGING	OR BLOCKING TO JOIST	2-10d BOX (3" x 0.128")	EACH END, TOENAIL

RELEASE FOR CONSTRUCTION

CRIPTION OF BUILDING MATERIAL	FASTNER SCHEDULE FOR S DESCRIPTION OF FASTENER	STRUCTURAL MEMBERS EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
	JBFLOOR, ROOF AND INTERIOR WALL SHEA		· · · · · · · · · · · · · · · · · · ·
¾" - ½"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
¹⁹ ⁄ ₃₂ " - 1"	8d COMMON NAIL (2½" x 0.131")	6	12
11%" - 11/4"	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL	SHEATHING	
2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$\begin{array}{c} 1\frac{1}{2}" \text{ GALVANIZED ROOFING NAIL, }\frac{7}{16}"\\ \text{HEAD DIAMETER, OR 1}\frac{1}{4}" \text{ LONG 16 GA.}\\ \text{STAPLE WITH }\frac{7}{16}" \text{ OR 1" CROWN} \end{array}$	3	6
25" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$\begin{array}{c} 1 \frac{3}{4}" \text{ GALVANIZED ROOFING NAIL, } \frac{7}{16}" \\ \text{HEAD DIAMETER, OR 1} \frac{1}{2}" \text{ LONG 16 GA.} \\ \text{STAPLE WITH } \frac{7}{16}" \text{ OR 1" CROWN} \end{array}$	3	6
½" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1¼" SCREWS, TYPE W OR S	7	1 7
%" GYPSUM SHEATHING	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
v	VOOD STRUCTURAL PANELS, COMBINATION	I SUBFLOOR UNDERLAYMENT TO FRAM	ING
¾" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
7∕6" - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
1½" - 1½"	10d COMMON (3" x 0.148") 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 LISTED IN THIS TABLE

FOUNDATION NOTES

- PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLABS
- 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
- 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.
- 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 5. #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 10. 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 IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB 11. SHALL BE DESIGNED BY A LICENSED ENGINEER
- 12. SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH ½" 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
- 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 15. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS 16. 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 18. INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A
- MINIMUM OF 1/2 ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED 19. 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 21.
- MATERIAI 22. JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE 23.
- COLD-FORMED STEEL JOIST HANGERS JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1//8" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
- ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3 25. 26. ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.
- 27. 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 28. PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH 29. A ½" 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)
- ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi 30 ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi 31.
- 32. 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. ½" 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.
- 33. WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED 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 Tr 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

37. 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 1/4" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN λ_{50} 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

- 38. 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. 39. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR,
- 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 1½", WITH NOT LESS THAN 5/" MORTAR OR GROUT COVER TO OUTSIDE FACE 41. 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 7/4" CORRUGATED.
- THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY. 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

GARAGE NOTES

44. 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

CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500

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

OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A

ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY

13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET

INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF

42. EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE

SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

GARAGE NOTES (CONTINUED)

45.

- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/2" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM ⁵/₈" TYPE X GYP. BOARD. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/" GYP. BOARD.
- GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH 2%"" x 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 31/4" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

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 ^c	-					
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 THF 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 REQUIRE	MENTS 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

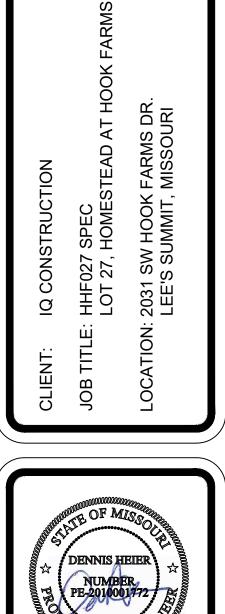
DUCT SEALING

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:

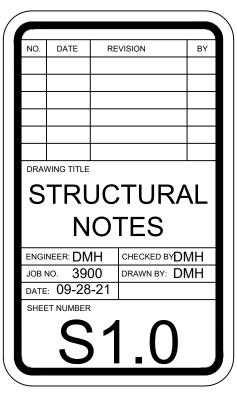
- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE 2. SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN 3. 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.
- 2. 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.

MECHANICAL VENTILATION SYSTEM FAN EFFICACY									
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)						
RANGE HOODS	ANY	2.8	ANY						
IN-LINE FAN	ANY	2.8	ANY						
BATHROOM, UTILITY ROOM	10	1.4	90						
BATHROOM, UTILITY ROOM	90	2.8	ANY						









RESIDENTIAL SEISMIC & WIND ANALYSIS

			RESIDENT	IAL SEISIVILL & WIN	ND ANALY SIS		INPUT	
ETERMINE WEIGHT C	OF HOUSE:					1051 (2)	CALCULATED VALUE	4
DCATION					DEAD LOAD (psf)	AREA (ft ²) 2635	WEIGHT (lbs.) 26350	1
EILING					10	2635	26350	
RST FLOOR				WALL LENGTH (ft)	10 WALL HEIGHT (ft)	2635 WALL UNIT WT. (psf)	26350 WEIGHT (lbs)	-
RST FLOOR EXT. WA				214		10	21400	1
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)	1
RST FLOOR INT. PAR	RTITION WALL DL				6	2635	15810	1
			DESIGN PER 115 MPH	3-SECOND GUST, EXPOSU	URE C AND MEAN ROOF HEIGHT <= 30]
		T-TO-BACK			SIDE-TO-SI			-
SLOPED ROOF	AREA 248	LOAD 2110		SLOPED ROOF	AREA 500	LOAD 4245		
VERT. ROOF	174	2163	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE	1
1ST BSMT ^a	581.13	7225	11570	1ST BSMT ^a	595.87	7391	11708	1
BSIVIT	0	0	0 PRESSURE (PSF	F) - PER ASCE CH. 6	124	1756	7610	1
	SLOPED ROOF WALL/VERT. ROOF MEAN ROOF HT., h			9.7 14.2	ZONE C ZONE D	11.3 7.7	2a (FIG. 28.6-1, ASCE7) 10.566	
T FLOOR TRIBUTAR ASEMENT TRIBUTAR ; (SITE GROUND MOT (from ASCE7 Table 17 $_{DS}$ (= 2/3 * S _S * F _a) (from ASCE7 Table 12	Y WEIGHT TION - %g - FROM AS 1.4-1)	SCE7 SEISMIC MAP)					63400 63400 12.0% 1.6 0.128 6.5	
	,							\square
DCATION	· · · · · ·			SEISMIC		m ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W	(R) (105.)
ST FLOOR						(Eq. 12.6 1).	1498	i handi
ASEMENT							1498	
Sheathing	Location	Min. Sheathir	ng Schedule	Fas	stening Schedule	Allowa	ble Shear (#/LF)	Code Reference
Exterior <u>(Or</u>	<u>otion #1)</u>	7/16" APA Rated	d Plywood/OSB		" perietration@ 6" OC Edges, 6" OC Field), 12" OC Field For 16" stud spacing		155	per IBC, Table
Exterior <u>(0</u> 2	<u>ption #2)</u>	7/16" APA Rates	í Plywood/OSB	1-1/2" 15ga. Steples w/ 1"	 12 CC Field For To stud spacing penetration@ 4" CC Edges, 6" CC Field 12" OC Field For 16" stud spacing 		230	2306.3(1) per IBC, Table 2306.3(1)
Exterior: (Opsion #3) 7/16" APA Rate		7/16" APA Rated	f Plywood/OSB	 1-1/2" 18ga. Steples w/ 1" panetration@ 3" OC Edges, 6" OC Fish For 24" stud specing, 12" OC Field For 16" stud specing 		310		2306.3(1) per IBC, Table 2306.3(1)
Exterior (Option #4) sheathing, or		7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nai	ap panel sheathing with	nel 8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.			220	AF&PA SDPWS Table 4.3A
Exterior (O	o <u>tion #5)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing				320		AF&PA SDPWS Table 4.3A
Exterior <u>(Or</u>	otion #6)	7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nail spacing and do edg	ap panel sheathing with ouble studs at each pane	8d Common Nails w/ 1-3/8	8" penetration @ 3" O.C. Edges, 12" O.C. Field		410	AF&PA SDPWS Table 4.3A
Interi	ior	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
Interi	ior	16 Ga. Simpson/USP Typ equ			8d @ intermediate studs (per manufacture ns - see detail on sheet S3)		325	
TERIOR SHEATHING		T FLOOR	4	1	WIDTH OF 1ST STORY (FT.)	52.83	WIDTH OF 2ND STORY (FT.)	4
TERIOR SHEATHING			4	1	DEPTH OF 1ST STORY (FT.)	54.17	DEPTH OF 2ND STORY (FT.)	4
			-	l	BACK WALL OF GARAGE (FT.)	0	per in or and otomi (r l.)	I
					GAR. WALL OF GARAGE (F1.)	2		
					,,,			
				RIOR STRUCTURAL WALL I	LENGTHS (ft.) & RESISTANCES			
F			ISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (I
T FLOOR	77	21560	36	10080	77	30184	36	14112
SEMENT	0	0	25	7000	0	0	25	9800
		ADDITIONAL RESIS	TANCE REQUIRED]	Anchor Bolt Spacing	(in.)	16d Nail Spacing req'd at	bottom plate (in.)
T FLOOR FRONT-TO T FLOOR SIDE-TO-SI SEMENT FRONT-TO	IDE	SEISMIC 0 0 0	WIND 0 0 0		diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches)	0.5 944 169.7 163.6	1st Floor F-B 1st Floor S-S	
SEMENT SIDE-TO-SI		0	0		apaoing 5-5 (inclues,	03.0		
				RED IN ADDITION TO RES	SISTANCE PROVIDED BY EXTERIOR W	ALLS** INT. WALL LENGTH		T
		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.)	SHEATHED W/ OSB (TOTAL LENGTH, ONE	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?

	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)	8	33.7	PITCH OF 6 OR LESS: I	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	216	-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**	2861.8011	-404.297424	3266.098524	-1.08	-0.36	-739	-3.5
*ALONG PERIMETER		TOTAL UPLIFT PER LINEAL F	OOT ALONG EXTERIOR (POL	JNDS)	-4.5	UPLIFT OK	
**INSIDE EXTERIOR W	ALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS		251.6		

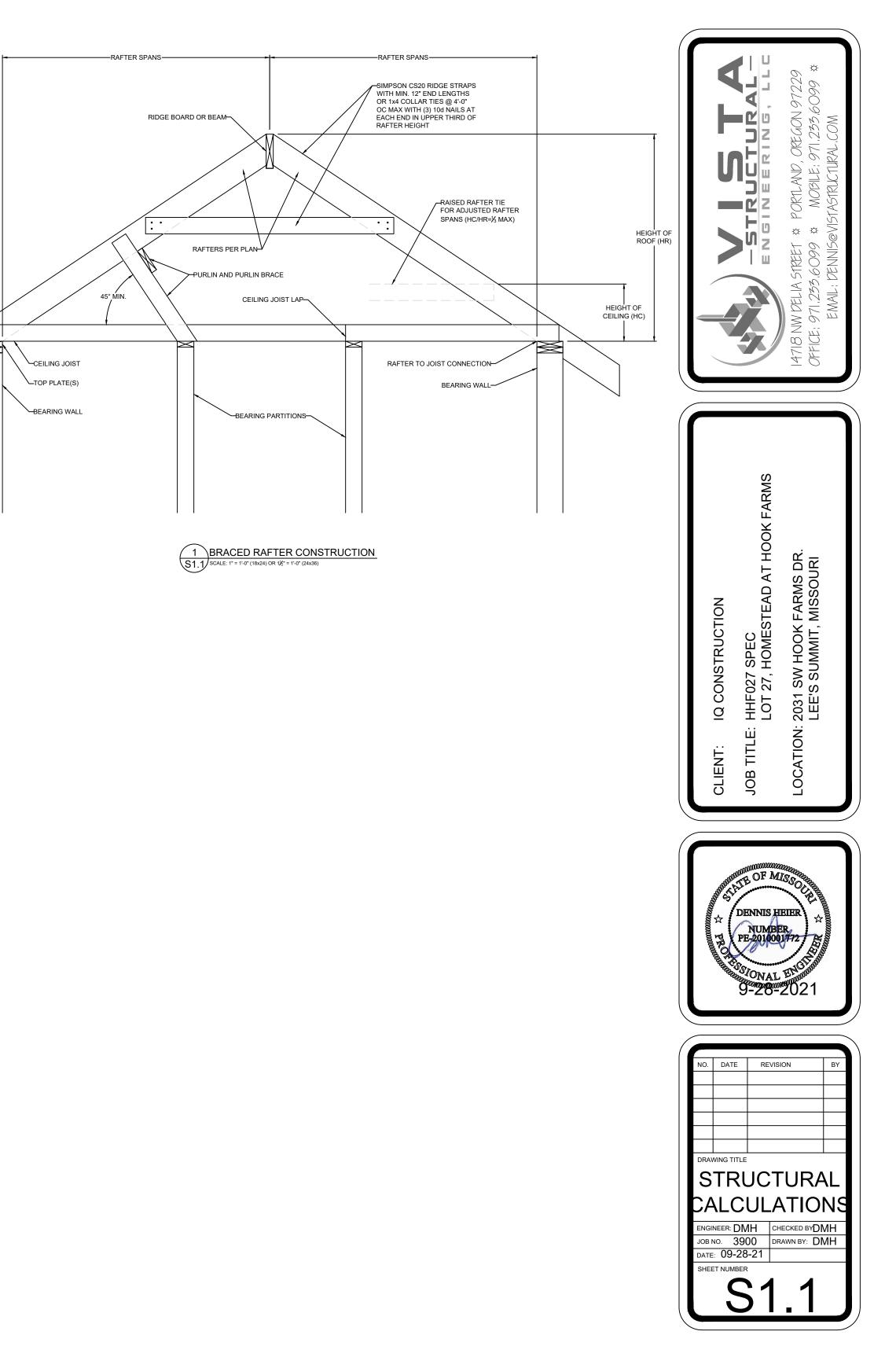
NOTE FOR CONSTRUCTION:

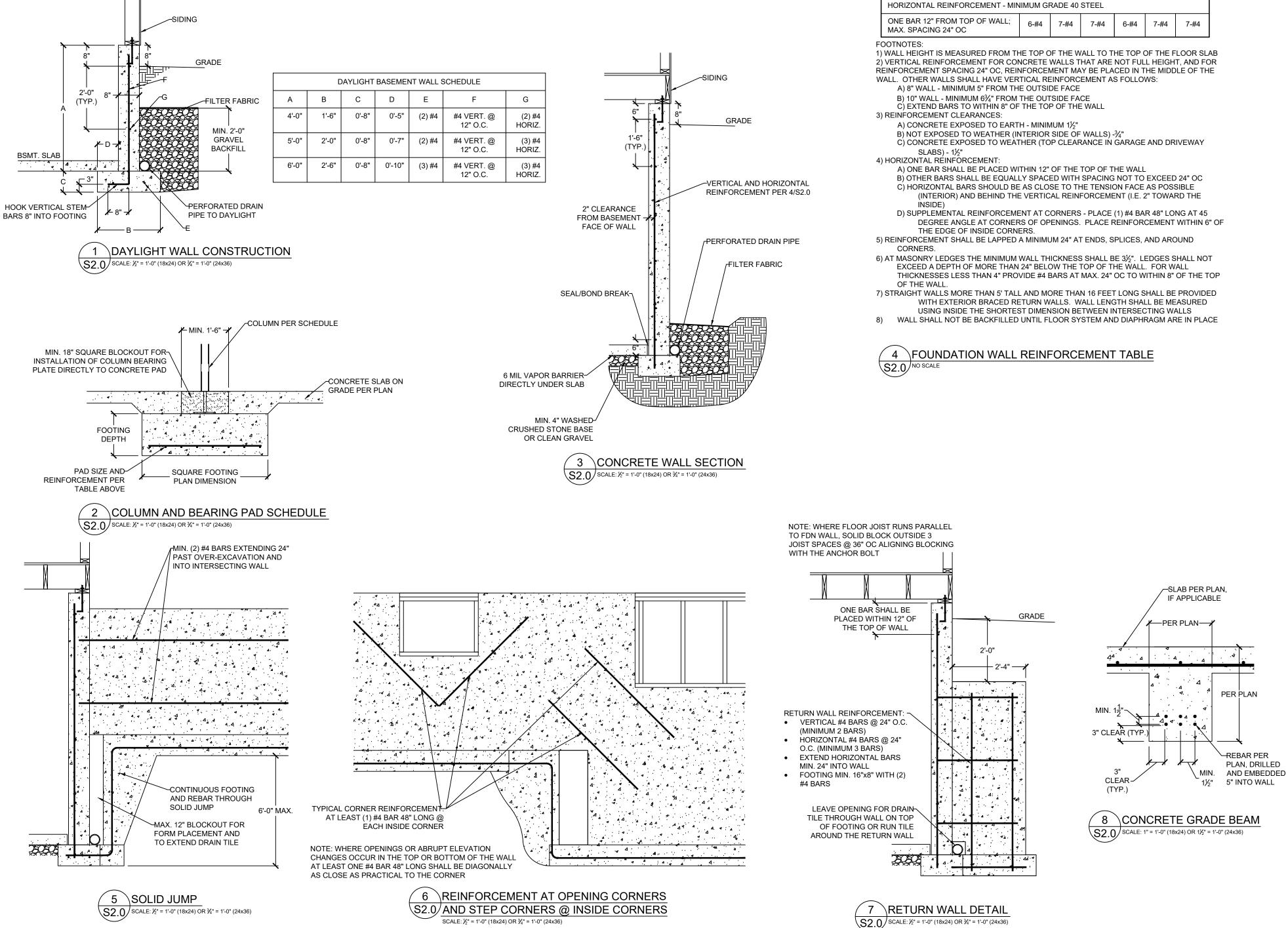
THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX., UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS

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)

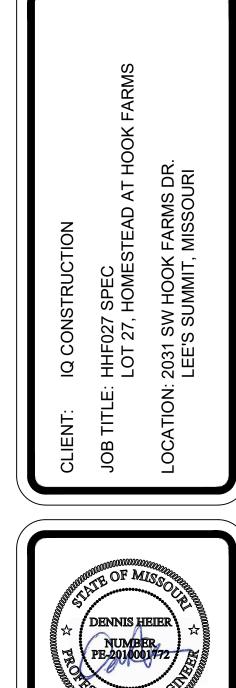
NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING

WITH CONSTRUCTION





VERTICAL REINFORCEMENT SPACING						
CONCRETE STRENGTH/GRADE	8" THICK WALL			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



OREGON

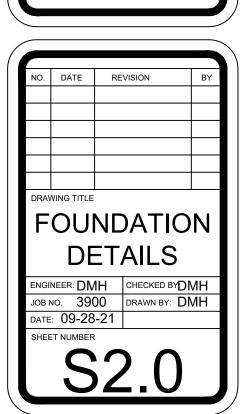
AND

P O R

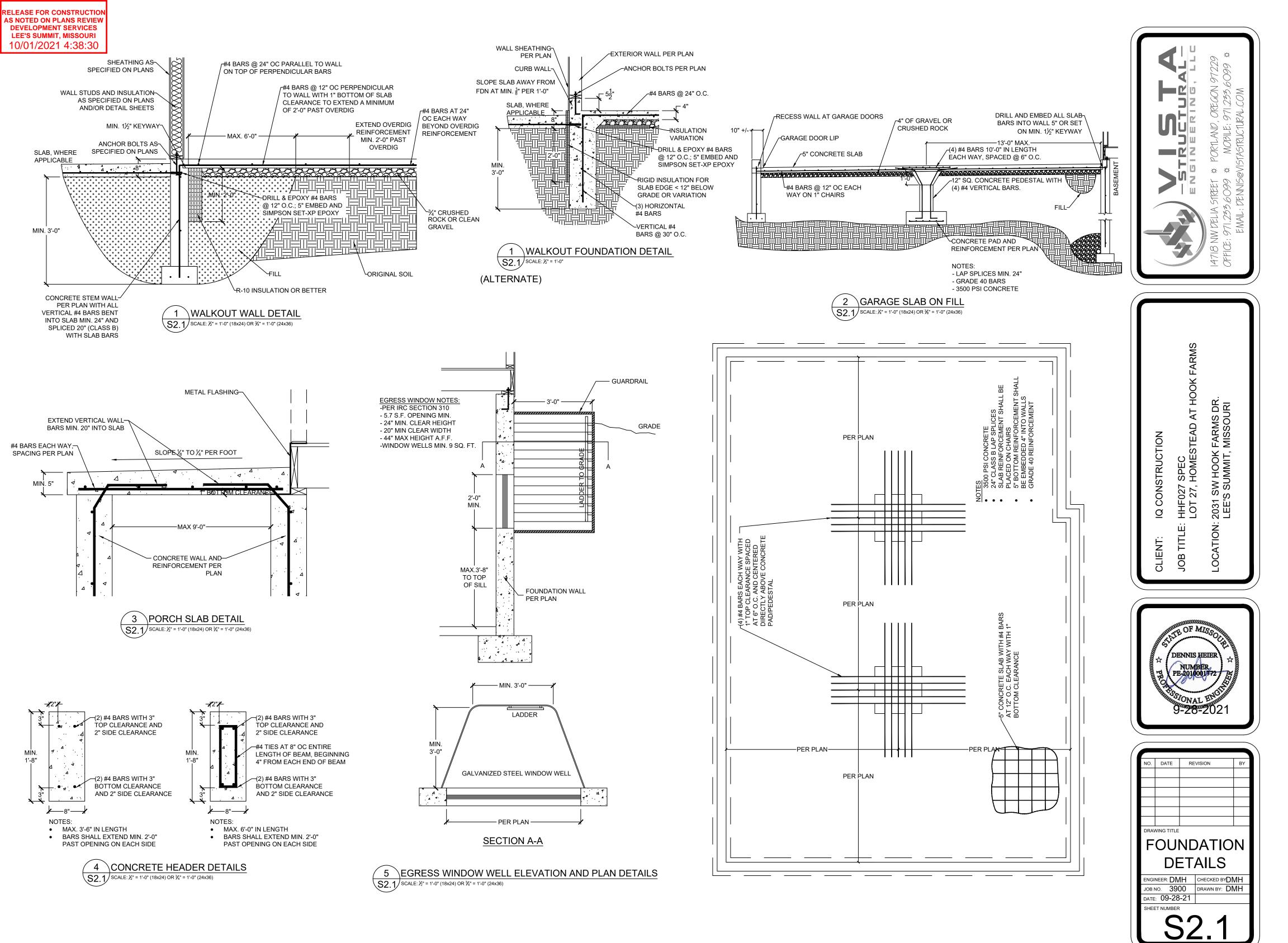
₽

STREET

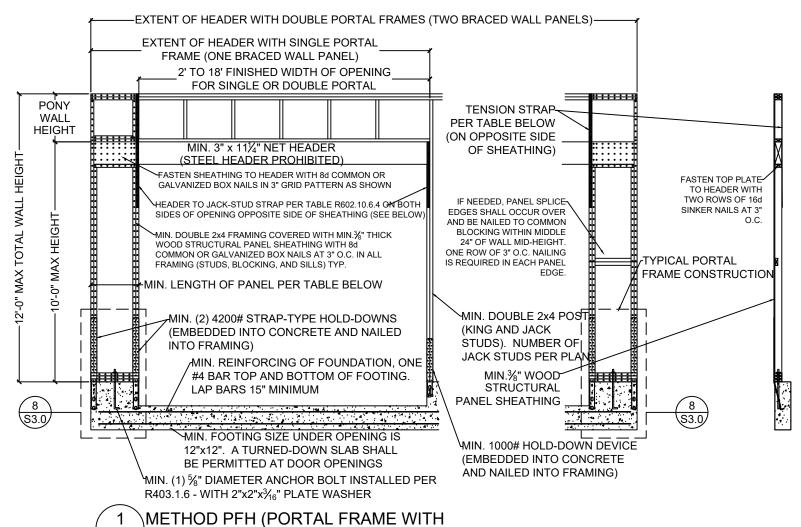
JZ



ONAL E 9**-28-**2021



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 10/01/2021 4:38:30



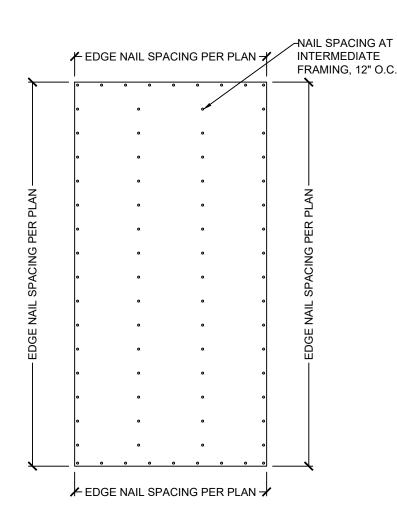
HEIGHT X

8 FEET 9 FEET 10 FEET 11 FEET 12 FEET SUPPORTING ROOF ONLY 16 16 18 20		MINIMUN		(INCHES)		AIL 1/S3.0	
8 FEET 9 FEET FEET			WALL HEIGHT				
		8 FEET	9 FEET			·	
	SUPPORTING ROOF ONLY	16	16	16	18	20	
SUPPORTING ONE STORY AND ROOF 24 24 24 27 29	SUPPORTING ONE STORY AND ROOF	24	24	24	27	29	

SCALE: ¹/₄" = 1'-0" (18x24) OR ³/₈" = 1'-0" (24x36)

S3.0/HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2

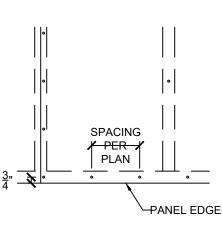
TENSION STRAP REQUIRED FOR HEADER TO JACK STUD FOR DETAILS 1/S3.0 / MAX GARAGE OPENING (FT.) PONY WALL WALL HT. (FT.) REQUIRED SIMPSON STRAP MIN. ST 18'-0" 0'-0" CS20 0'-0" CS20 0'-0"				
(FT.) (FT.) STRAP MIN. ST 18'-0" 0'-0" CS20 0' 9'-0" 1'-0" CS20 0' 18'-0" 1'-0" CS14 0' 9'-0" 2'-0" CS18 0' 18'-0" 2'-0" CMSTC16 0'	<u>5 1/53.0 ANI</u>			
(F1.) STRAP 18'-0" 0'-0" CS20 9'-0" 1'-0" CS20 18'-0" 1'-0" CS14 9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16	MIN. STRA			
9'-0" 1'-0" CS20 18'-0" 1'-0" CS14 9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16	Winte Offer	STRAP	(FT.)	(FT.)
18'-0" 1'-0" CS14 9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16		CS20	0'-0"	18'-0"
18'-0" 1'-0" CS14 9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16				
9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16		CS20	1'-0"	9'-0"
9'-0" 2'-0" CS18 18'-0" 2'-0" CMSTC16		CS14	1'_0"	18'-0"
18'-0" 2'-0" CMSTC16		0314	1-0	18-0
18'-0" 2'-0" CMSTC16		CS18	2'-0"	9'_0"
		6616	2-0	5-0
		CMSTC16	2'-0"	18'-0"
9'-0" 4'-0" CMSTC16			2.0	10 0
		CMSTC16	4'-0"	9'-0"
			4-0	5-0
16'-0" 4'-0" CMST14		CMST14	4'-0"	16'-0"
			4-0	10-0





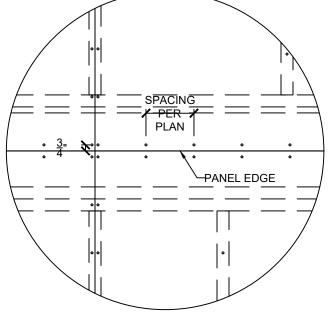
SPACING PER -PLAN SHEATHING EDGE AT TOP PLATE

(SINGLE ROW OF FASTENERS)

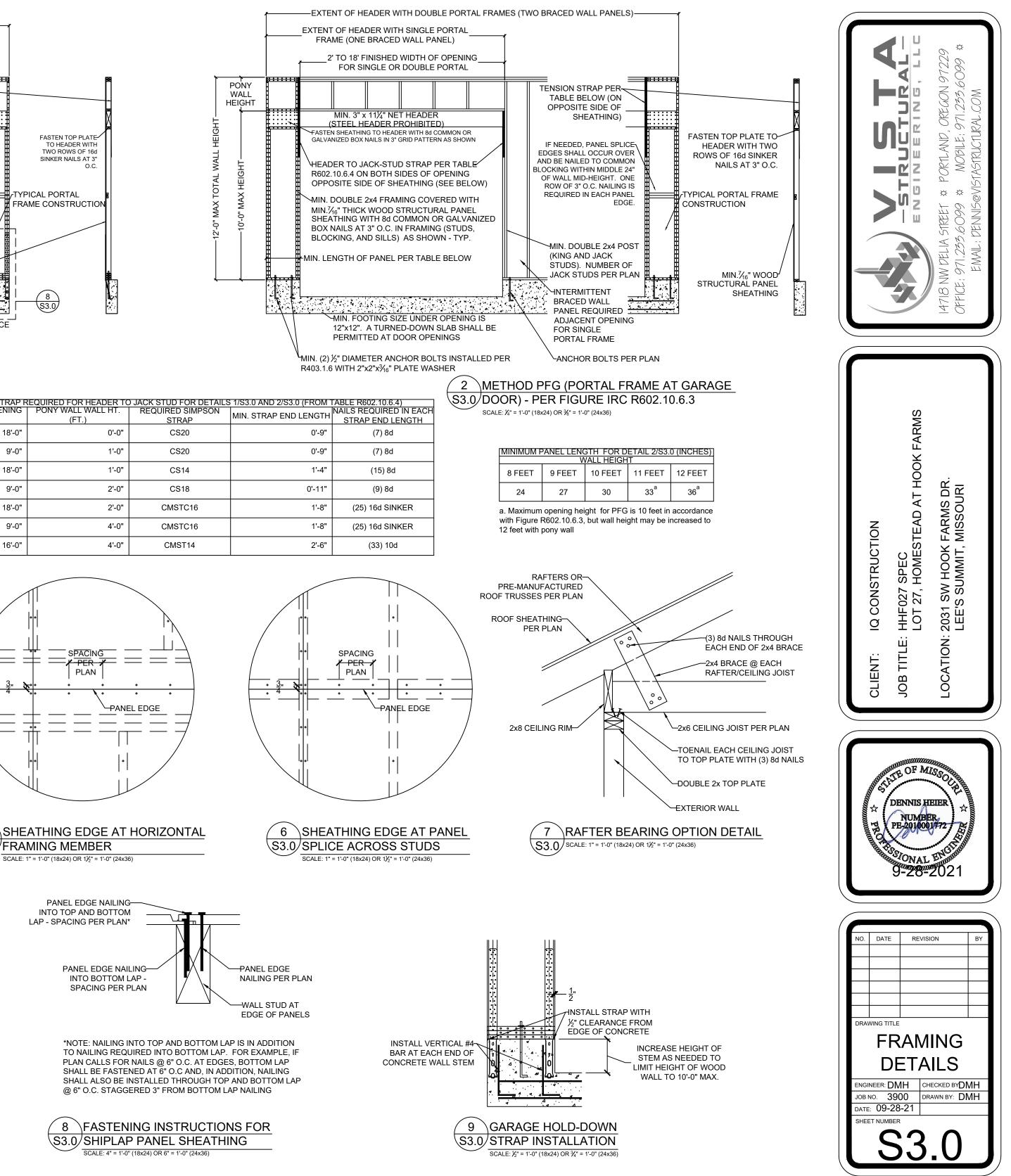


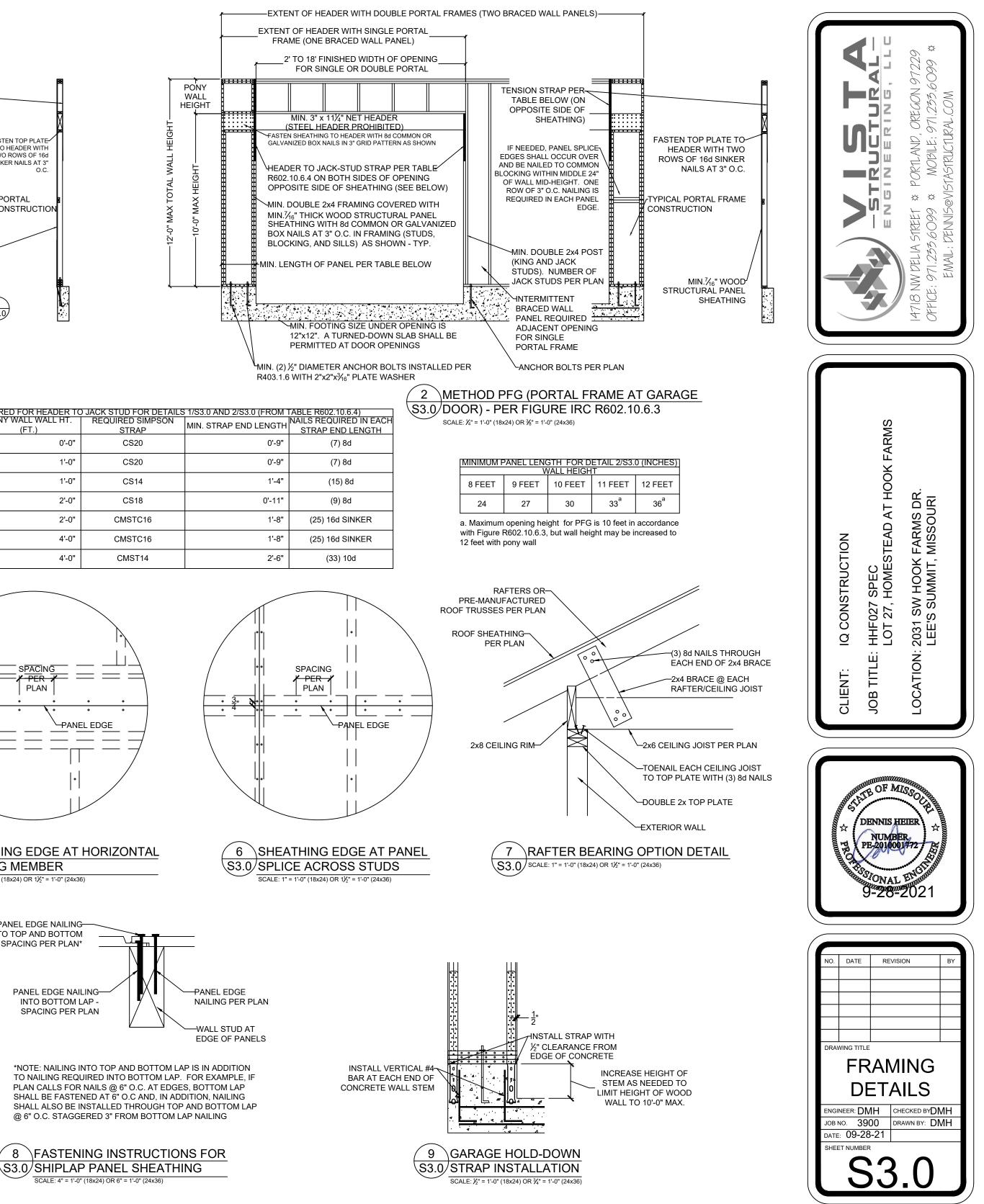
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)

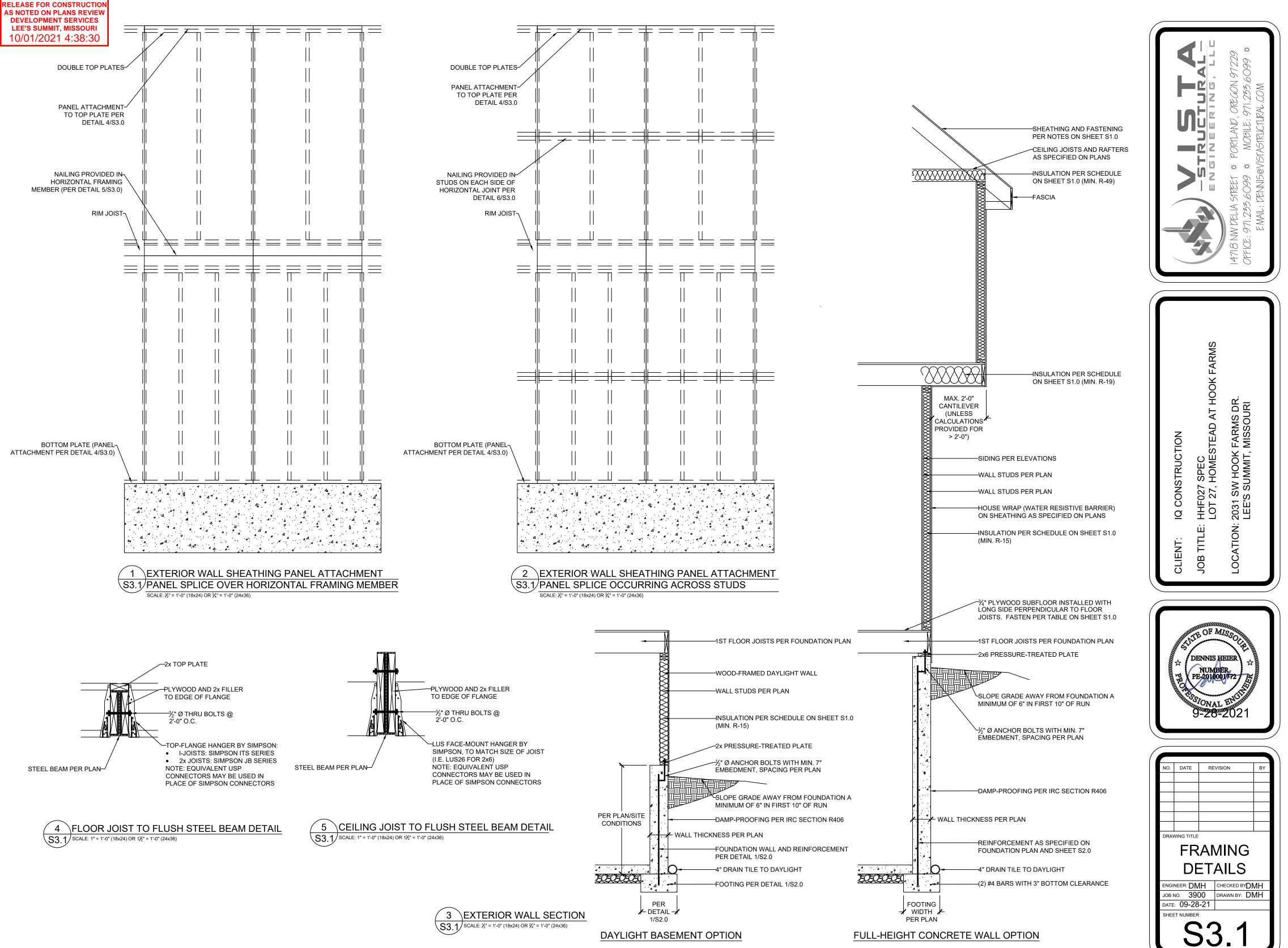
SHEATHING EDGE AT TOP 4 S3.0/AND BOTTOM PLATES SCALE: 1" = 1'-0" (18x24) OR 1¹/₂" = 1'-0" (24x36)



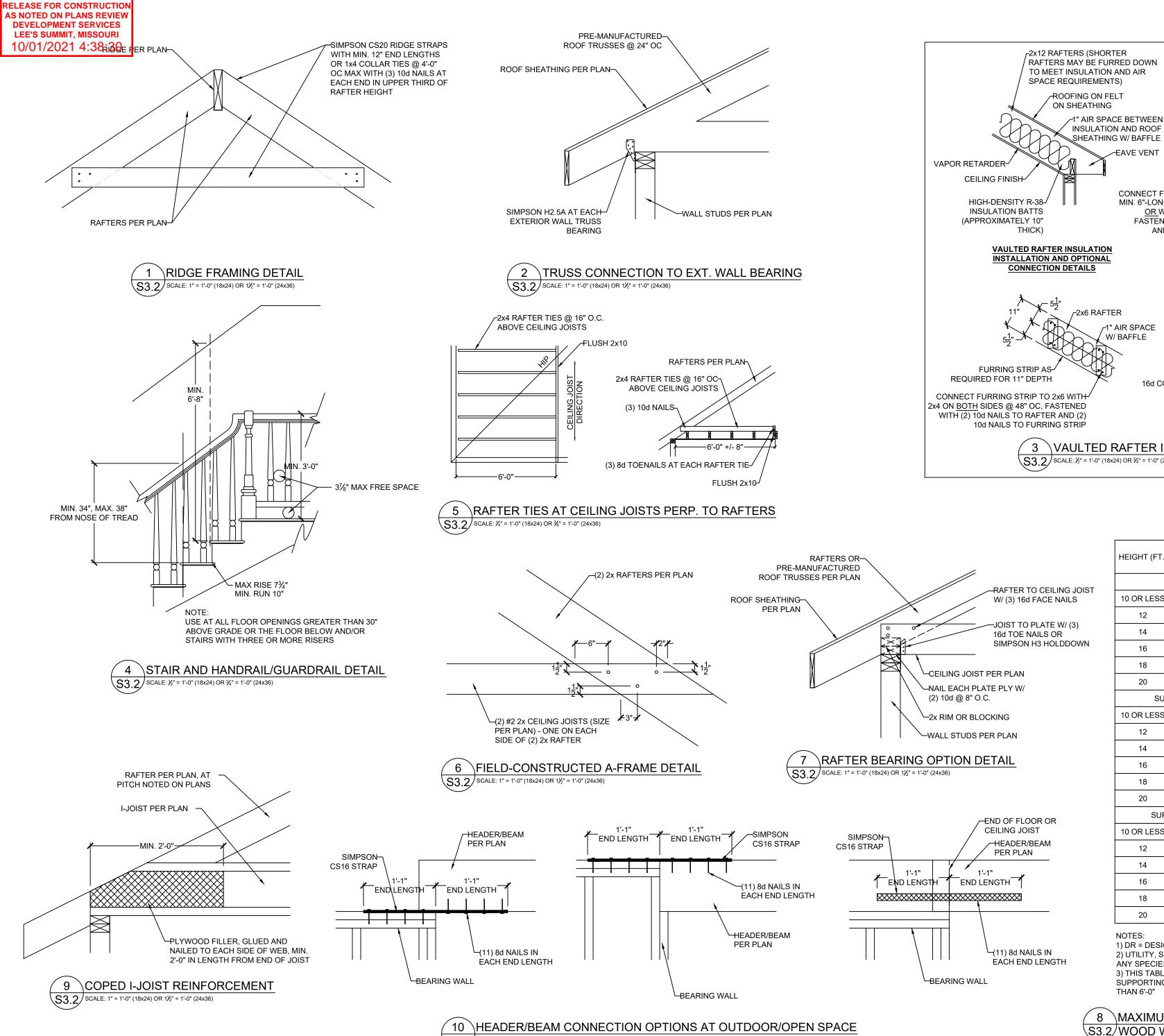
SHEATHING EDGE AT HORIZONTAL 5 ` S3.0/FRAMING MEMBER



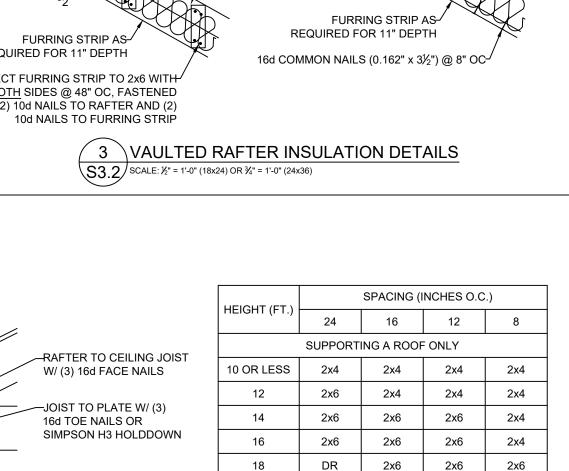




FULL-HEIGHT CONCRETE WALL OPTION



S3.2/SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



DR

2x6

2x6

2x6

DR

DR

DR

2x6

2x6

2x6

DR

DR

DR

20

10 OR LESS

12

14

16

18

20

10 OR LESS

12

14

16

18

20

NOTES:

DR

2x4

2x6

2x6

2x6

2x6

DR

2x6

2x6

2x6

2x6

DR

SUPPORTING TWO FLOORS AND A ROOF

SUPPORTING ONE FLOOR AND A ROOF

2x6

2x4

2x6

2x6

2x6

2x6

2x6

2x4

2x6

2x6

2x6

2x6

2x6

2x4

2x4

2x6

2x6

2x6

2x6

2x4

-EAVE VENT

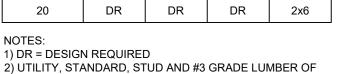
-1" AIR SPACE W/ BAFFLE

8 \MAXIMUM ALLOWABLE LENGTH OF S3.2/WOOD WALL STUDS (IRC TABLE 602.3.1)

3) THIS TABLE DOES NOT APPLY FOR STUDS SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER THAN 6'-0"

ANY SPECIES ARE NOT PERMITTED

2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF



-2x8 RAFTER

2x10 RAFTER

-1" AIR SPACE

W/ BAFFLE

FURRING STRIP AS-

REQUIRED FOR 11" DEPTH

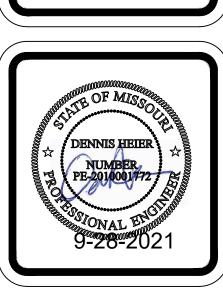
OR WITH 2x4 ON BOTH SIDES @ 48" OC,

AND (2) 10d NAILS TO FURRING STRIP

FASTENED WITH (2) 10d NAILS TO RAFTER

CONNECT FURRING STRIP TO 2x8 WITH 3/8" Ø x-4 MIN. 6"-LONG LEDGER-LOK SCREWS @ 36" OC -1" AIR SPACE W/ BAFFLE

2x6 2x6 2x6 2x6



HHF027 SPEC LOT 27, HOMESTEAD AT HOOK FARMS

CONSTRUCTION

Q

CLIENT

E

JOB

2031 SW HOOK FARMS DR LEE'S SUMMIT, MISSOURI

ION:

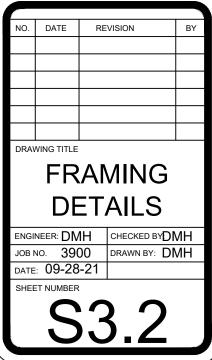
A

Ó

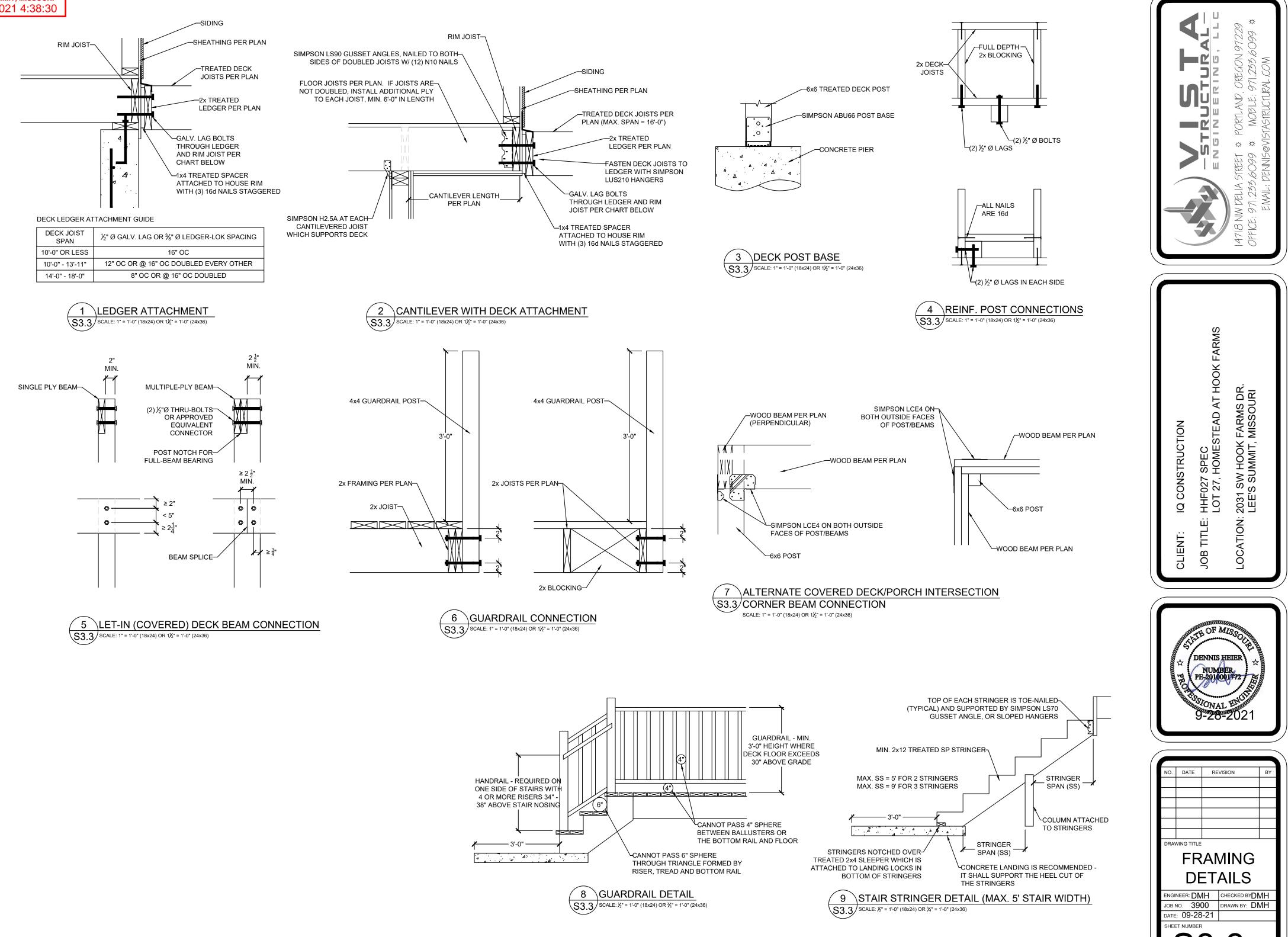
8

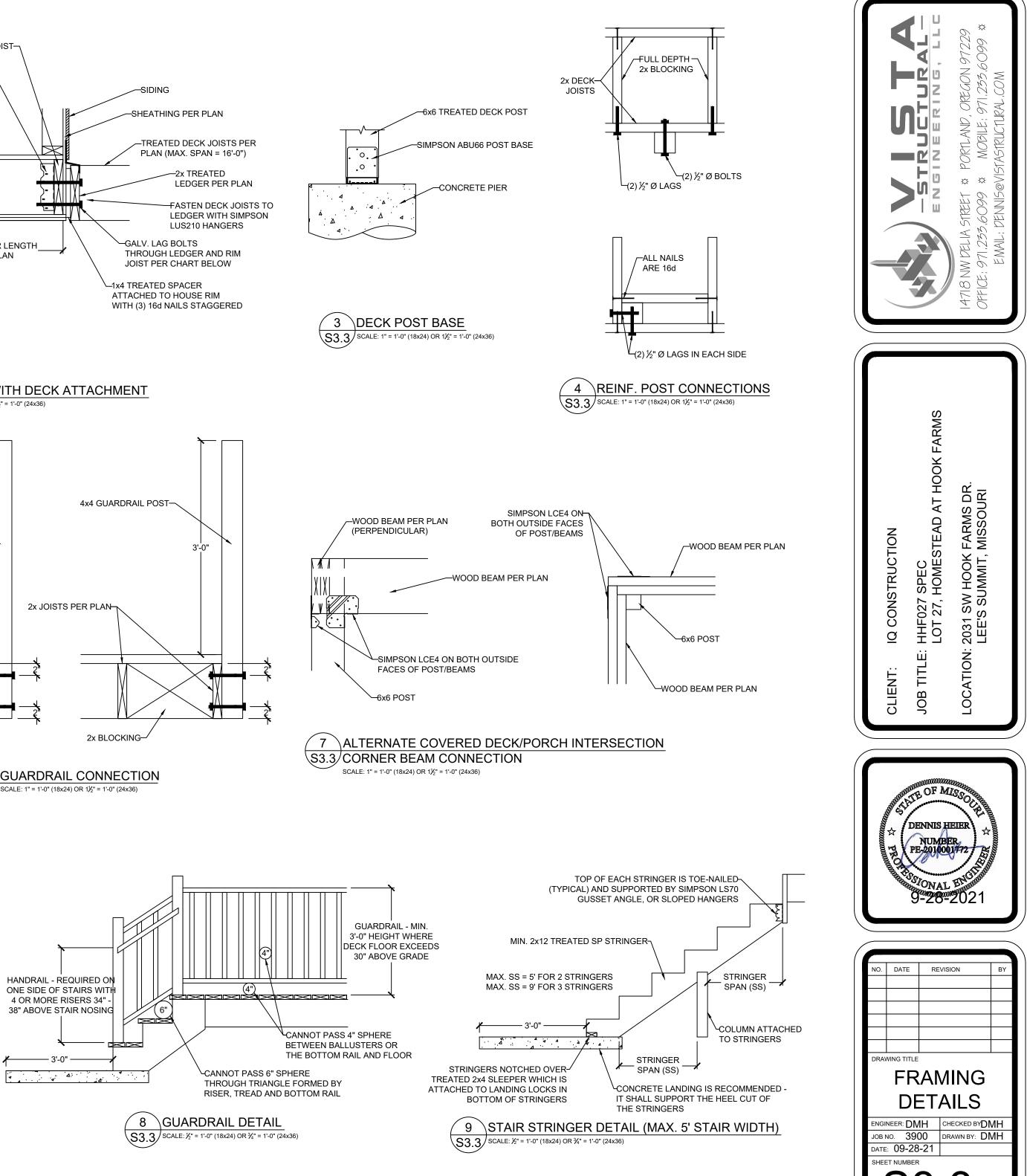
÷Ċ-

JZ



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/01/2021 4:38:30





DROPPED BEAM

