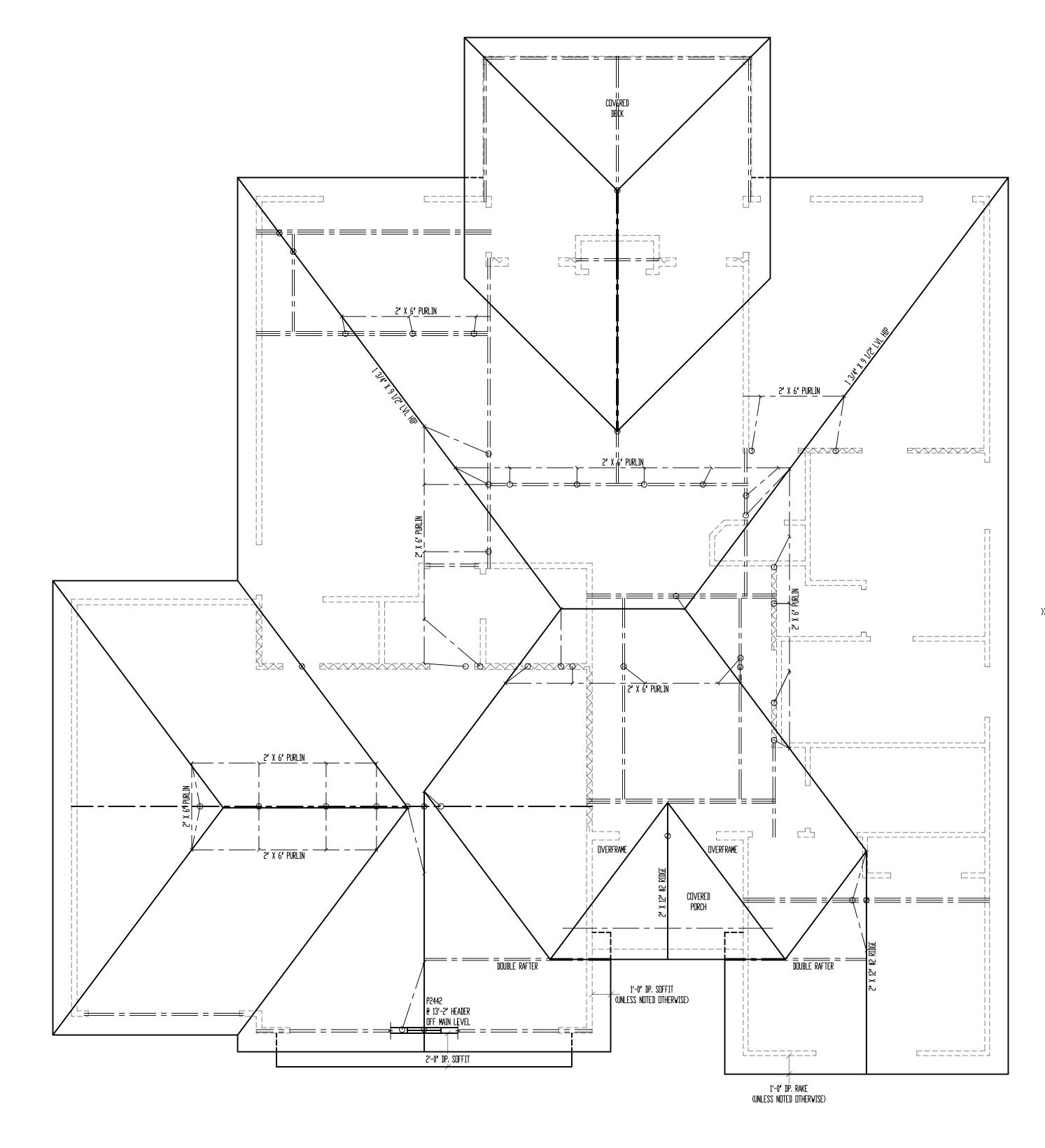




Rev. 1: Rev. 2: Rev. 3:

Sheet Title: ELEVATIONS

Sheet No.:



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

*ALL RAFTERS SHALL BE 2" X 6" #2 @ 16" D.C., UNLESS NOTED DTHERWISE.

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL 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 ′		
>>	#2-2x6	@16″ D.C.	14'-2 '	\	
	#2-2x8	024 " D.C.	14′-8 ′		
	#2-2x8	@16″ D.C.	17'-11 '		
	#2-2x10	024″ D.C.	17'-10 '		
	#2-2x10	e 16″ D.C.	21'-11 '		
	NOTE ODD		DUA COD I DICTCO DECLEATION		

NOTE: CODE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL 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	024 " D.C.	11'-3'
#2-2x8	@16″ D.C.	12'-9 '
#2-2x10	024″ D.C.	14'-3 '
#2-2x10	e 16″ D.C.	16'-3'
	M = 1/260 I T	

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

* VAULTS TO BE 2x10 DEPTH * RIDGE BDARDS ARE: (UNLESS OTHERWISE NOTED)

- #2- 2X8 UP TO 10/12 PITCH
- #2- 2X10 OVER 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 NDT 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' CUNFIGURA	atiun and per the fullowing chart:
1		

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 NOTES ABOVE)
 * HIP & VALLEY BRACES ARE SAME AS PURLIN

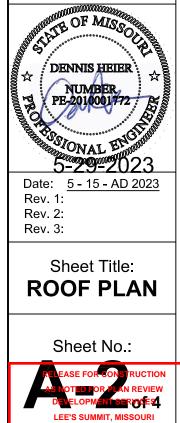
SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

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

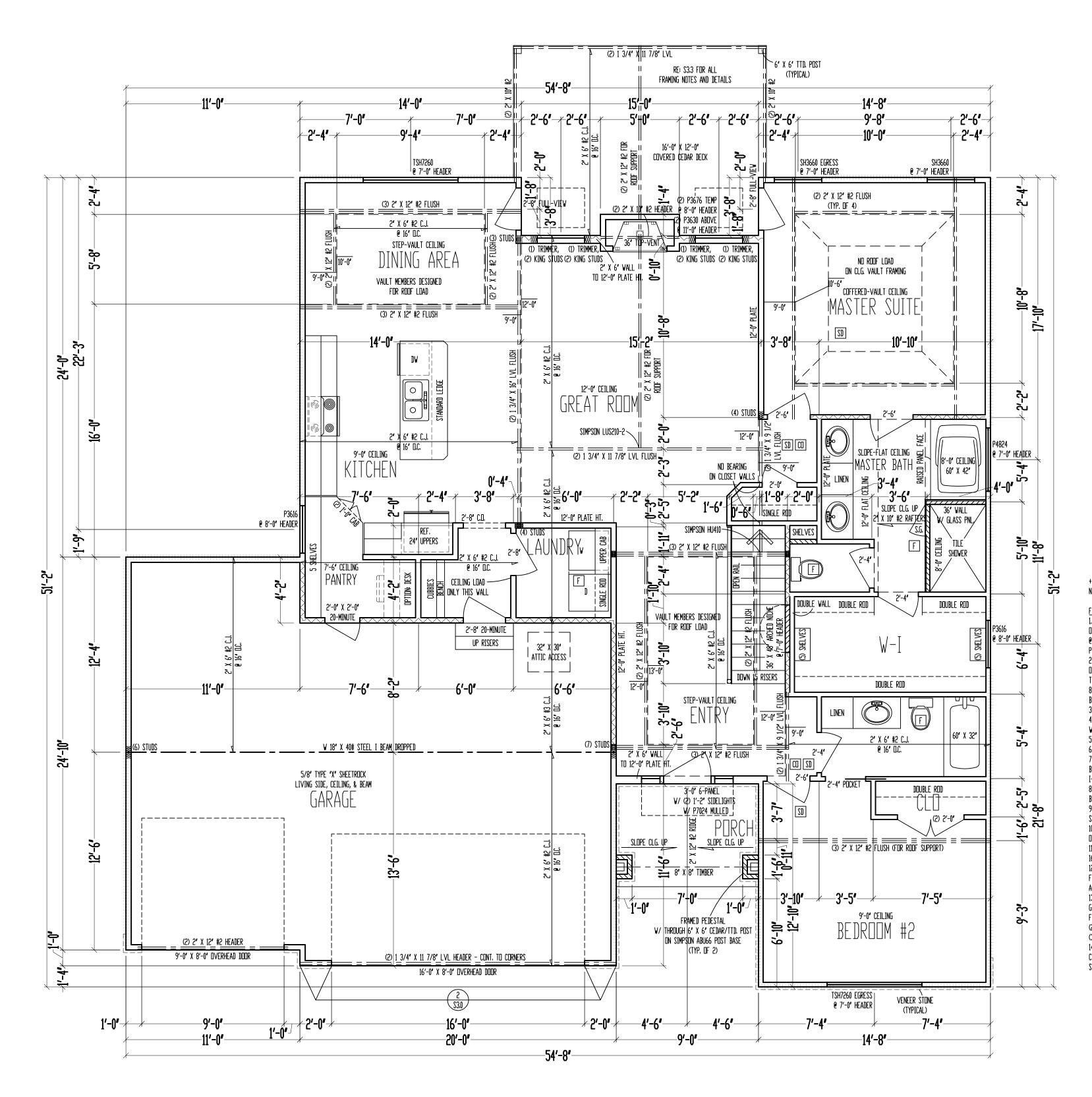
-	DENOTES	ROOF BRACE
—	DENOTES	PURLIN
-	DENOTES	BEARING STRUCTURE
	_	- DENOTES - DENOTES - DENOTES

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"For God so loved the world, that he	JEXPOD begotten Son,	RESIDENTIAL DESIGN LLC	should not perish,	Office: (816) 554-0400 Email: admin@viewpointdesign.net everlasting life" (John 3:16).	
	Draw	ing N	lame	e:	

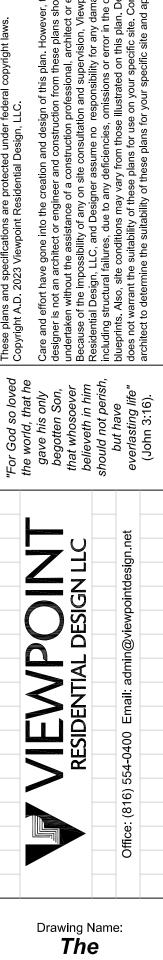
The WOODVIEW 2 Site Description: Lot 117, Summit View Farms Property Address: 3216 SW Saddlebred Ter., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC



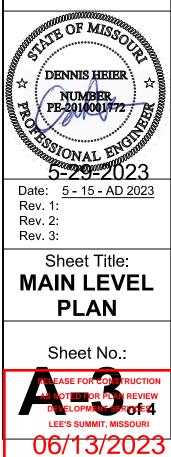
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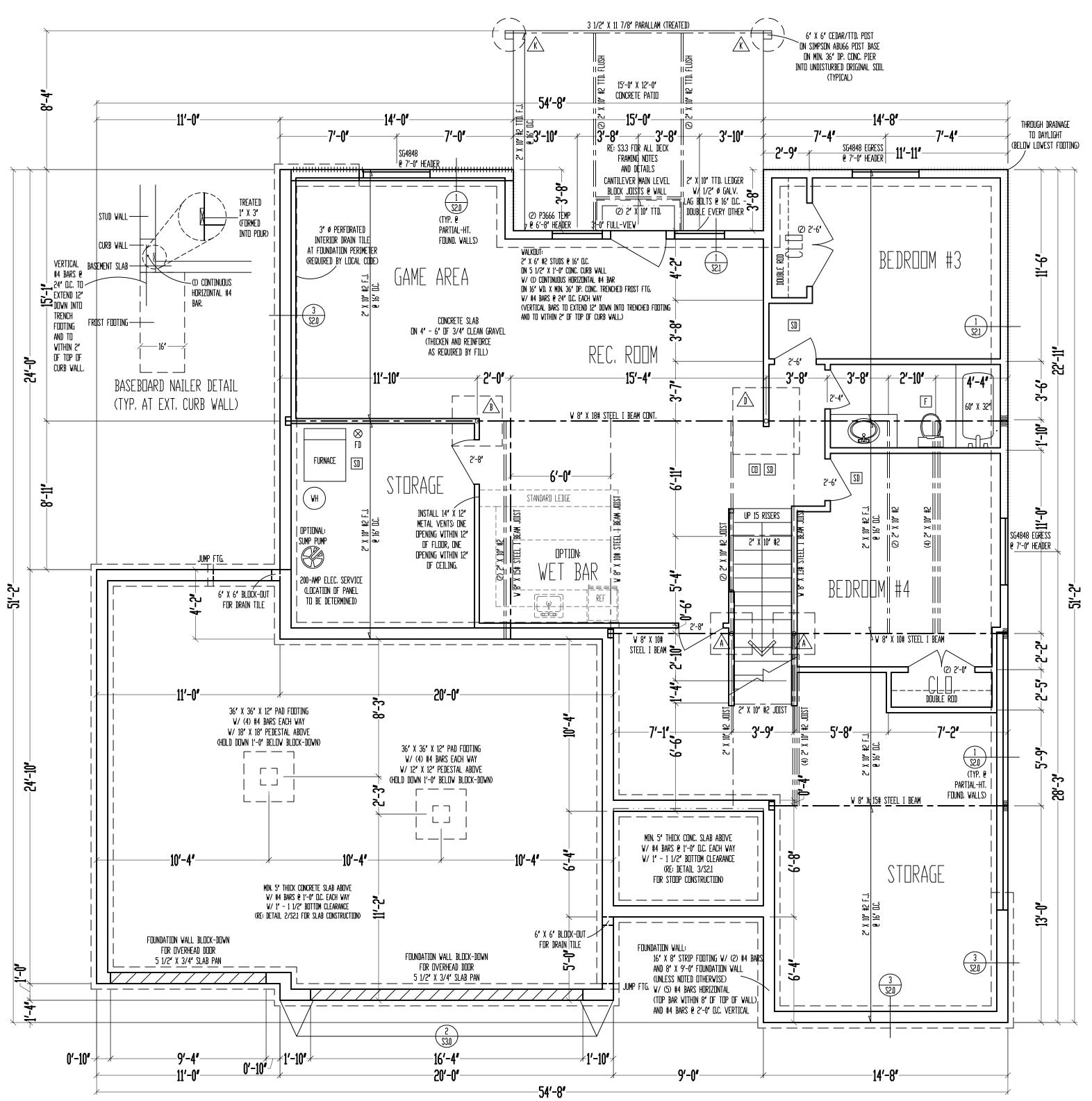


	These plans and specifications are protected Copyright A.D. 2023 Viewpoint Residential D
9'-0" CEILING MAIN LEVEL SCALE: 1/4" = 1'-0"	"For God so loved the world, that he
MAIN LEVEL: 1629 SQ. FT. LOWER LEVEL: 1002 SQ. FT. TOTAL: 2631 SQ. FT.	
GARAGE: 704 SQ. FT. COV. DUT/LIV: 189 SQ. FT. UNFIN. BASEMENT: 475 SQ. FT.	
+++++++++++++++++++++ = Wall bracing per framing note #1 and per calculations on sheet s1.1. <u>Framing notes</u> 1. Main Level Exterior Walls Shall be sheathed W/ 7/16' 1.S.B. A.P.A. Panels W/ 8d common Nails @ 6' d.C. At edges & @ 12' d.C. In the field. Smart Panel, or equal, installed per Manufacturer's specifications.	
2. \ \ \ \ \ \ \ \ \ \ \ \ = G.B: 1/2" MIN. GYPSUM BDARD JVER STUDS SPACED 24" MAX FASTENED W/ ND. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 3"-0" SECTIONS ONE SIDE OF WALL (OR) 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) 5. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.	
7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS). 3. 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 JTHERWISE.	3210 Ter G W I
11. ALL VALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S 0 16' D.C., UNLESS NOTED OTHERWISE. 12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS 0 8' D.C. MAX. (WHERE 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	PROFILE Date Rev
stringent than code minimums above any openings.	Rev Rev M



Network State Stat





+++++++++++++++++++++ = VALL BRACING PER FRAMING NOTE #1 AND PER CALCULATIONS ON SHEET S1.1. FRAMING NOTES 1. BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED V/ 7/16' D.S.B. A.P.A. PANELS V/ 8d COMMON NAILS @ 6' D.C. AT EDGES & 🙎 @ 12" D.C. IN THE FIELD. SMART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SPACED 24' MAX FASTENED V/ ND. 6 - 1 1/4' TYPE V DR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) 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 WALLS. 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 VALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS NOTED OTHERWISE. 12. 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" D.C. MAX. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH. 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 jat lõ at wrosoe elieveth in I but have but have /erlasting I (John 3:16 14. NEW FOUNDATION SHALL BEAR ON ORIGINAL SOIL WITH MINIMUM ir God su e world, gave h begott that w belie shou BEARING CAPACITY OF 1500 PSF. A GEDTECHNICAL ENGINEER IS Recommended for verification of these conditions during the EXCAVATION PHASE, ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS. 15. Contractor shall notify engineer of record before CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS. Z U 9'-0" FOUNDATION WALLS (UNLESS NOTED OTHERWISE) \square \cap ON 16" X 8" STRIP FOOTINGS (STEP WHERE GRADE REQUIRES) 2" X 10" FLOOR SYSTEM FOUNDATION SCALE: 1/4'' = 1'-0''Drawing Name: The WOODVIEW 2 Site Description: Lot 117, Summit View Farms Property Address: STEEL COLUMN & 3216 SW Saddlebred PAD FOOTING SCHEDULE Ter., Lee's Summit, 3" X 11 GA. STEEL COLUMN Missouri A ON 30" X 30" X 10" PAD FOOTING General Contractor: | W/ (4) #4 BARS EACH WAY (12.5k) Walker Custom 3 1/2" X 11 GA. STEEL COLUMN Homes, LLC B | ON 36' X 36' X 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (18.0k) MONOTE OF MISSOR 3" SCH. 40 STEEL COLUMN C | DN 42' X 42' X 12' PAD FOOTING W/ (5) #4 BARS EACH WAY (24.5k) 3 1/2" SCH. 40 STEEL COLUMN DENNIS HEIER /D | ON 48' X 48' X 12' PAD FOOTING NUMBER PE-2010001772 W/ (6) #4 BARS EACH WAY (32.0k) 3 1/2" SCH. 40 STEEL COLUMN ∕E | ON 54' X 54' X 14' PAD FOOTING W/ (7) #4 BARS EACH WAY (40.5k) STONAL ET 3 1/2" SCH, 40 STEEL COLUMN 5-29-2023 F ON 60' X 60' X 14' PAD FOOTING Date: <u>5 - 15</u> - AD 2023 W/ (8) #4 BARS EACH WAY (50.0k) Rev. 1: Rev. 2: Rev. 3: PIER FOOTING SCHEDULE Sheet Title:

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12" ø pier ftg.

16" ø pier ftg.

18' ø pier ftg.

24**'** ø pier ftg.

FOUNDATION

PLAN

Sheet No.:

LEE'S SUMMIT, MISSOURI

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS				
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION		
	ROOF ¹			
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8d (2½" x 0.113")	TOENAIL		
CEILING JOISTS TO PLATE, TOE NAIL	4-8d (2½" x 0.113")	PER JOIST, TOENAIL		
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS 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 RAFTER, FACE NAIL OR 1 $\frac{1}{4}$ " x 20 GA. RIDGE 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		
ROOF RAFTERS TO RIDGE, VALLEY, OR HIP RAFTERS OR ROOF 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 (NOT AT BRACED WALL PANELS)	10d (3" x 0.128")	16" O.C. FACE NAIL		
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d (3½" x 0.135")	12" O.C. FACE NAIL		
BUILT-UP HEADER, TWO PIECES WITH $\frac{1}{2}$ " Spacer	16d (3½" x 0.135")	12" O.C. EACH EDGE FACE NAIL		
CONTINUOUS 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		
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 ½" x 0.162")	FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)		
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 ½" 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 ½" 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)		
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 ½" x 0.113")	FACE NAIL		
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2 ¹ / ₂ " x 0.113")	FACE NAIL		
1"x8" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2 ⅔" x 0.113")	FACE NAIL		
	FLOOR			
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2 ½" x 0.113")	TOE NAIL		
RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 ¹ / ₂ " x 0.113")	4" O.C. TOE NAIL		
1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 ½" x 0.113")	FACE NAIL		
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½" x 0.135")	BLIND AND FACE NAIL		
2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)	3-16d BOX (3 ½" x 0.135")	AT EACH BEARING, FACE NAIL		
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½" x 0.162")	END NAIL		
BUILT-UP GIRDERS 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 SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 ½" 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			

DESCRIPTION OF BUILDING MATERIALS	FASTNER SCHEDULE FOF	R STRUCTURAL MEMBERS	INTERMEDIATE SUPPORTS (INCHES)
	FLOOR, ROOF AND INTERIOR WALL SHE	ATHING TO FRAMING AND PARTICLEBOA	
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
11⁄6" - 11⁄4"	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
	OTHER WAL	SHEATHING	
¹ / ₂ " STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ¹ / ₂ " GALVANIZED ROOFING NAIL, ⁷ / ₁₆ " HEAD DIAMETER, OR 1 ¹ / ₄ " LONG 16 GA. STAPLE WITH ⁷ / ₁₆ " OR 1" CROWN	3	6
25" STRUCTURAL CELLULOSIC 72 FIBERBOARD SHEATHING	1 ³ / ₄ " GALVANIZED ROOFING NAIL, ⁷ / ₁₆ " HEAD DIAMETER, OR 1 ¹ / ₂ " LONG 16 GA. STAPLE WITH ⁷ / ₁₆ " OR 1" CROWN	3	6
½" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1¼" SCREWS, TYPE W OR S	7	7
5∕%" GYPSUM SHEATHING	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
wo	OOD STRUCTURAL PANELS, COMBINATIO	N SUBFLOOR UNDERLAYMENT TO FRAM	ING
$rac{3}{4}$ " and less	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
7 <mark>8</mark> " - 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

- 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.
- 4. 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 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
- 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
- SHALL BE DESIGNED BY A LICENSED ENGINEER SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH ½" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 12.
- 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 FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET 13.
- THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT 14. DISCHARGES TO THE EXTERIOR, ABOVE GRADE

FRAMING NOTES

- 15. 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 16. 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 18.
- 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. MATERIAL JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD.
- 22. 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%" 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. 26. ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND 27.
- 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 %" 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 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 32.
- 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. 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
- ALL ROOF SHEATHING SHALL BE 16 OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD 34.

GLAZING NOTES

- 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"
- ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2 36. 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 %" TO ½" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN \mathscr{H}_{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 PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, 39.
- 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 1½", 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 X CORRUGATED.
- EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE 42. 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 43.
- 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

DIMENSION

		MULTIPLE-PLY WOOD BEA	M FASTENING SCHEDULE			
IONAL LUMBER BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS	
(2) 2x	(2) ROWS 10d @ 12" O.C. ONE SIDE	(2) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS 16d @ 12" O.C. ONE SIDE	(3) 1 ¾" x 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. BOTH SIDES	
(3) 2x	(2) ROWS 10d @ 12" O.C. BOTH SIDES	(2) 1 ¾" 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. ONE SIDE	(4) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS ¼" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES	
(4) 2x	(2) ROWS ¼" x 5" SIMPSON SDS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM, BOTH SIDES	(3) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS OF 16d @ 12" O.C. BOTH SIDES	(4) 1 ⅔" x 14"+ DEPTH	(3) ROWS ¼" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES	

WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED

GARAGE NOTES (CONTINUED)

45.

THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/8" 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 5/2" 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 5/8" 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 21/2"" 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)				
	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 requiremen 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 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 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 2. 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			



FARM VIEW SVF117 SPEC LOT 117, SUMMIT щ E

HOMES,

CUSTOM

WALKER

CLIENT:

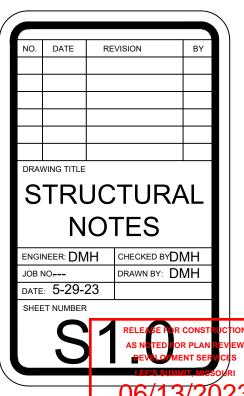
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NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING

A WIND SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)

WITH CONSTRUCTION

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

ADDITIONAL RESISTANCE REQUIRED

WIND

PORTAL FRAMES OR

PERF. SHEAR WALL

2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING

RESISTANCE

**NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE)

 LENGTH (FT.)
 PRESSURE (PSF)
 LINEAL FT. OF OH
 UPLIFT PER FT* (LBS)

 1
 -1.08
 213.68
 -1.08

 1
 -1.08
 213.60

 TOTAL AREA (FT²)
 ZONE E AREA (FT²)
 ZONE G AREA (FT²)
 PRESSURE ZN. E (PSF)

TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS) RESISTANCE DUE TO DEAD WEIGHT & (3) 10d TOENAILS

PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-8" OR LONGER

SEISMIC

ADDITIONAL

RESISTANCE

REQUIRED (POUNDS)

DEGREES

33.7 ASCE 7

EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS BACK WALL OF GARAGE (FT GAR. WALL: 1=F-B, 2=S-S XTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK RESISTANCE (lbs.) SIDE-TO-SIDE RESISTANCE (lbs. FRONT-TO-BACK RESISTANCE (lbs.)

RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS

WIND UPLIFT ANALYSIS

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.,

INTERIOR X-BRACES

(325#/BRACE)

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

PITCH OF 6 OR LESS: EOH -13.3, E -7.2, G -5.2

WIDTH OF 1ST STORY (FT.) 54.67 DEPTH OF 1ST STORY (FT.) 51.17

INT. WALL LENGTH

SHEATHED W/ OSB

SIDE, FT.)

UPLIFT OK

Anchor Bolt Spacing (

GYPSUM BOARD PER TABLE (FT.) (TOTAL LENGTH, ONE

diameter (in.) Shear value (per NDS)

Spacing F-B (inches

spacing S-S (inche

INTERIOR WALL LENGTH W/ 1/2"

PRESSURE ZN. G (PSF)

-4.6

251.6

DEPTH OF 2ND STORY (FT.)

16d Nail Spacing req'd at bottom plate (ir

RESISTANCE (lbs.

OK?

SIDE-TO-SIDE

1st Floor F-B 1st Floor S-S

RESISTANCE PROVIDED BY

ADDITIONAL METHODS

(POUNDS)

TOTAL FORCE (LBS) FORCE PER LINEAL FT @ PERIMETER (LBS)

INPUT

CALCULATED VALUE

WEIGHT (lbs.)

59633.04

59633.04

12.0%

1.6

0.128

65

AREA (ft²

R (from ASCE7 Table 12.2-1)				6.5	
		SEISMIC SHEAR			
LOCATION			m ASCE7 (Eq. 12.8-1):		i _{os} * W / R) (Ibs.)
1ST FLOOR BASEMENT					1409 1409
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowa	ble Shear (#/LF)	Code Reference
Exterior <u>(Option #1)</u>	7/16" APA Rated Plywood/OSB	1-1/2" 16ga, Steples w/ 1" penefizition@ 8" OC Edges, 5" OC Field For 24" stud specing, 12" OC Field For 18" stud specing		155	per IBC, Table 2306.3(1)
Exterior <u>(Option #2)</u>	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Stapics w/ 1" penatration@ 4" OC Edges, 5" OC Field For 24" stud spacing, 12" OC Field For 18" stud spacing		230	per IBC, Table 2306.3(1)
Exterior <u>(Option #3)</u>	7/16" APA Rated Plywood/OSB	1-1/2* 16gs. Staplez w/ 1* penetration@ 3* OC Edgez, S* OC Field For 24* stud spacing, 12* OC Field For 18* stud spacing		310	per IBC, Table 2306.3(1)
Exterior (Option #4)	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		220	AF&PA SDPWS Table 4.3A
Exterior (Option #5)	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		320	AF&PA SDPWS Table 4.3A
Exterior (Option #6)	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. Field		410	AF&PA SDPWS Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 11/4" 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	

1ST FLOOR TRIBUTAR BASEMENT TRIBUTAR S_S(SITE GROUND MO F_a (from ASCE7 Table 11.4-1) S_{DS} (= 2/3 * S_S * F_a) R (from ASCE7 Table 12.2-1)

EXTERIOR SHEATHING OPTION FOR FIRST FLOOR

BASEMENT

1ST FLOOR FRONT-TO-BACK

1ST FLOOR SIDE-TO-SIDE

BASEMENT SIDE-TO-SIDE

BASEMENT FRONT-TO-BACK

ST FLOOR FRONT-TO-BACK

IST FLOOR SIDE-TO-SIDE

ROOF PITCH (MAX)

OVERHANG

MAIN ROOF**

ALONG PERIMETER

**INSIDE EXTERIOR WALLS

NOTE FOR CONSTRUCTION:

BASEMENT FRONT-TO-BACK BASEMENT SIDE-TO-SIDE

DETERMINE WEIGHT OF HOUSE

OCATION

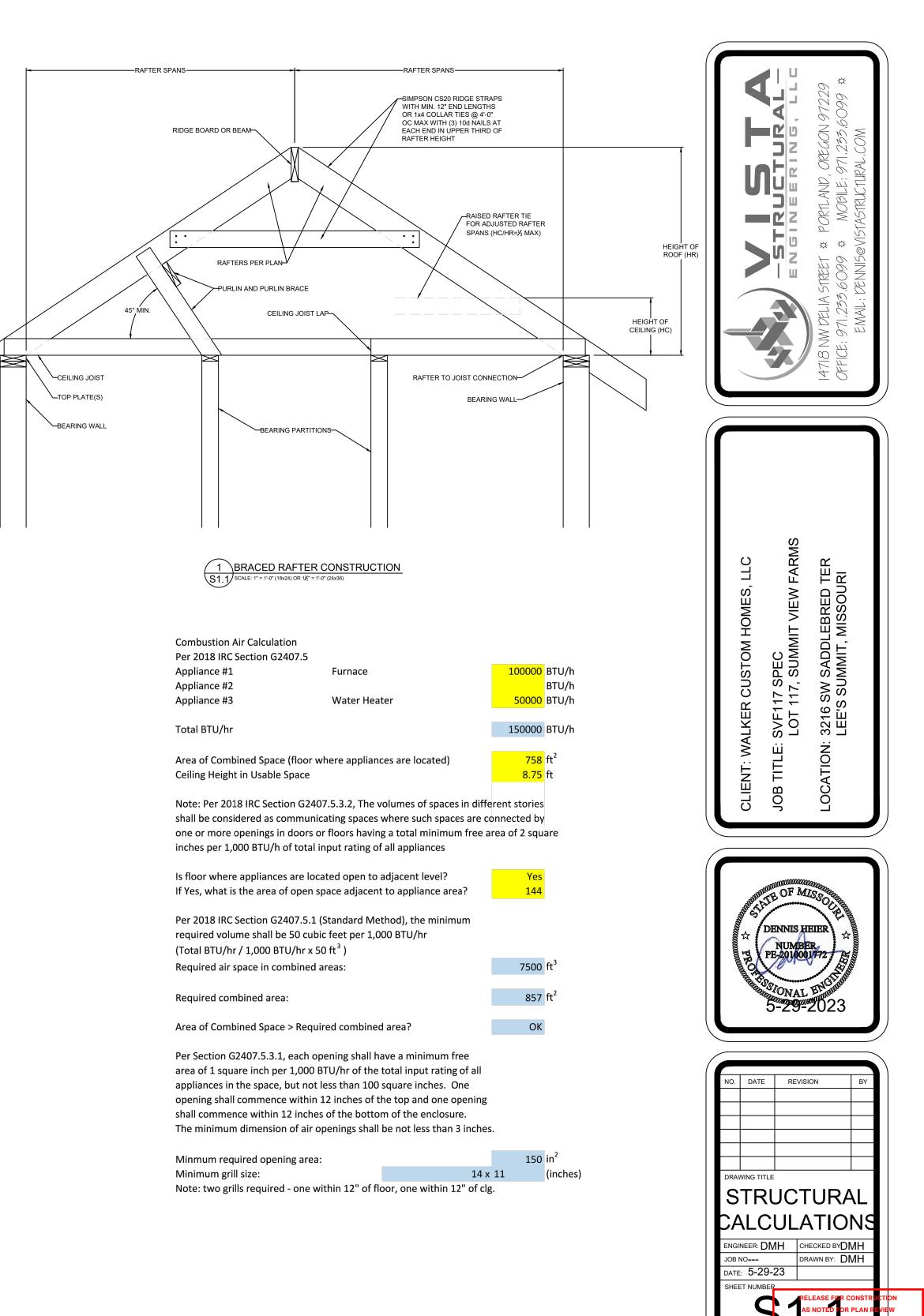
 a) If there is a walk q_{z10}=0.00256K_zK_{zt}K_dV² (

wall to be sneathed, determine tributary wind area	a and enter here.	if no walkout, enter 0 for area.	
(ASCE7-10 Velocity Pressure)	q_{z10_ASD} =0.6 q_{z10}	(Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)	
RY WEIGHT RY WEIGHT			
DTION - %g - FROM ASCE7 SEISMIC MAP)			

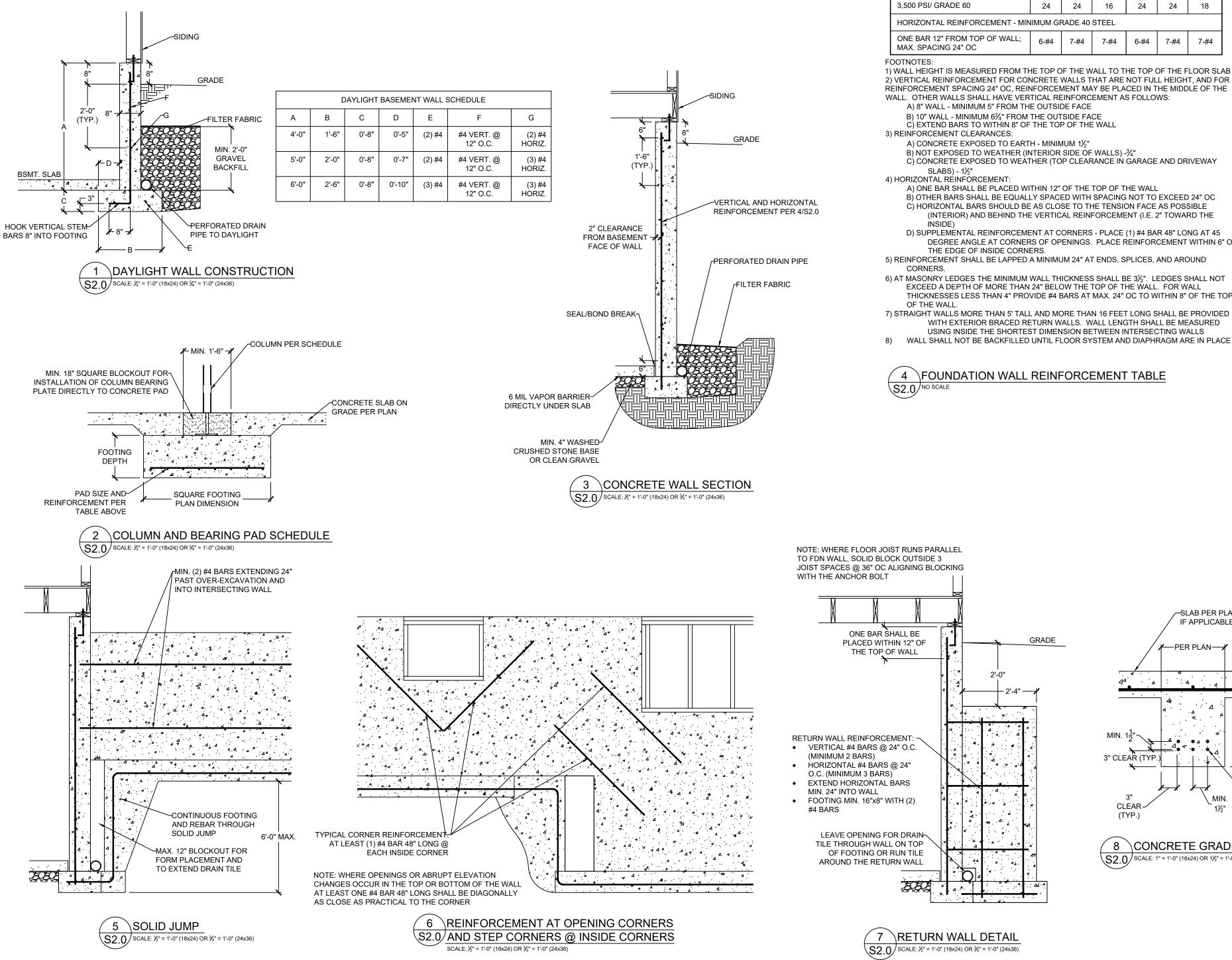
CEILING				10	2553	25530		
FIRST FLOOR					10	2553	25530	
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)	
FIRST FLOOR EXT. W	/ALL DL			211.68	9	9	17146.08	
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)	
FIRST FLOOR INT. PA	RTITION WALL DL				6	2553	15318	
	PRO	JECTED AREAS (WIND I	DESIGN PER 115 MPH 3	3-SECOND GUST, EXPOSU	RE C AND MEAN ROOF HEIGHT <= 30	FT ASSUMED)		
	FRONT	-TO-BACK		SIDE-TO-SIDE				
	AREA	LOAD			AREA	LOAD		
SLOPED ROOF	230	1946		SLOPED ROOF	434	3692		
VERT. ROOF	189	2336	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE	
1ST	546.7	6756	11108	1ST	511.7	6361	10124	
BSMT ^a	0	0	0	BSMT ^a	96	1359	6421	
		PRESSURE (PSF) - PER ASCE CH. 6						
		9.7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)			
		14.2	ZONE D	7.7	10.234			
	MEAN ROOF HT., h		23					

RESIDENTIAL SEISMIC & WIND ANALYSIS

DEAD LOAD (psf



UD/13/2023



VERTICAL REINFORCEMENT SPACING							
CONCRETE STRENGTH/GRADE	8"	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	

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 REINFORCEMENT SPACING 24" OC, REINFORCEMENT MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT AS FOLLOWS:

C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY

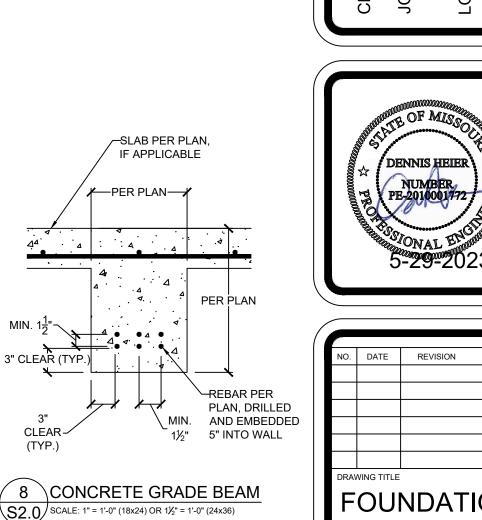
- A) ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL
- B) OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" OC C) HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE
- D) SUPPLEMENTAL REINFORCEMENT AT CORNERS PLACE (1) #4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF

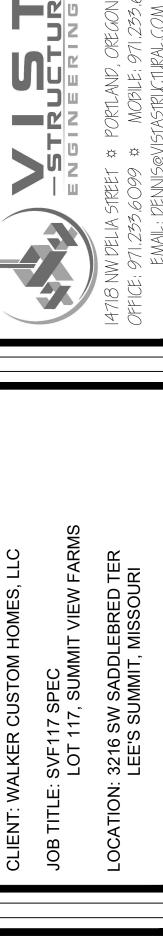
5) REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND

6) AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 31/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP

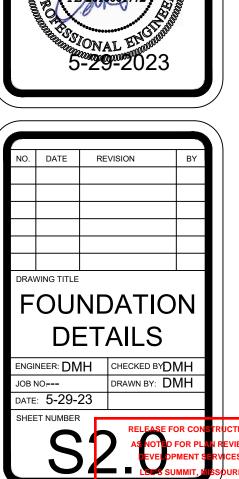
- WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS
- 8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

FOUNDATION WALL REINFORCEMENT TABLE

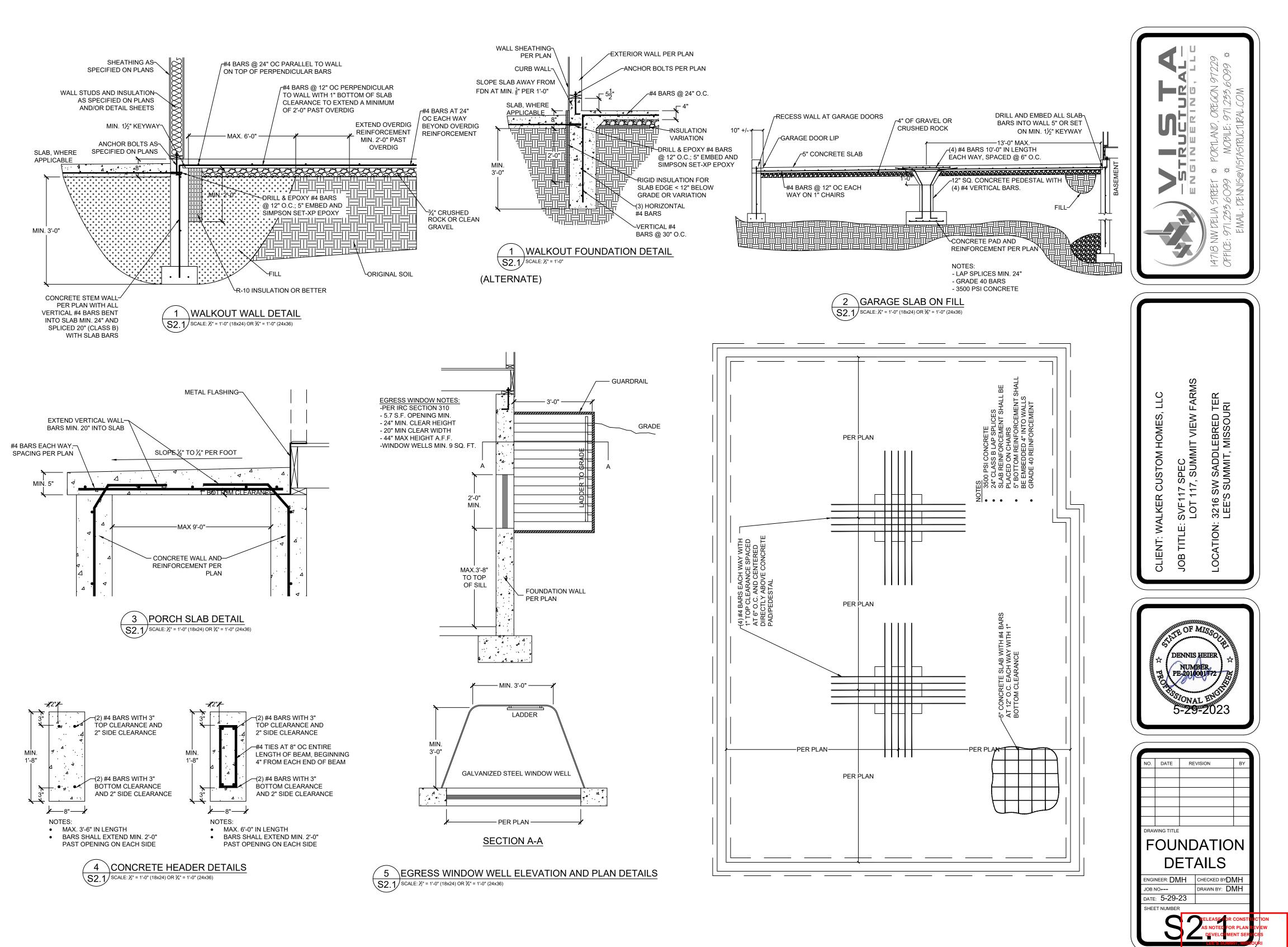




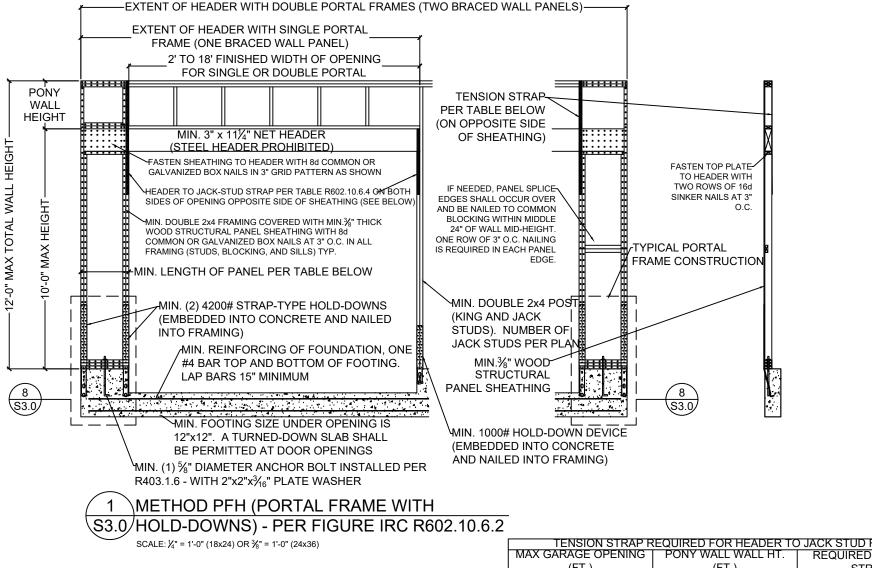
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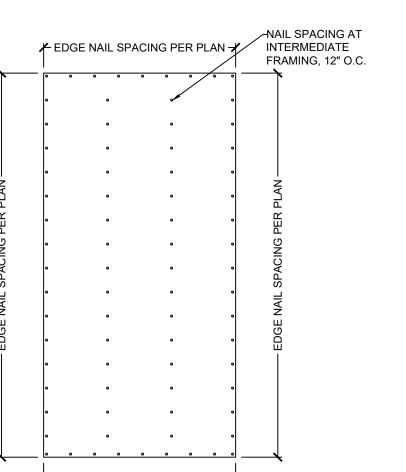


06/13/2023



	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)					
	WALL HEIGHT					
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	
SUPPORTING ROOF ONLY	16	16	16	18	20	
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29	

	REQUIRED FOR HEADER TO		1/92 0 AN
MAX GARAGE OPENING	PONY WALL WALL HT.	REQUIRED SIMPSON	1/33.0 AN
(FT.)	(FT.)	STRAP	MIN. STRA
	· · · · · · · · · · · · · · · · · · ·		
18'-0"	0'-0"	CS20	
	41.01	0000	
9'-0"	1'-0"	CS20	
4.01.01	41.01	0011	
18'-0"	1'-0"	CS14	
9'-0"	2'-0"	CS18	
9-0	2-0	0310	
18'-0"	2'-0"	CMSTC16	
18-0	2-0	CINSTCTO	
9'-0"	4'-0"	CMSTC16	
5-0	O	CINSTETE	
16'-0"	4'-0"	CMST14	
10-0	4-0	000114	



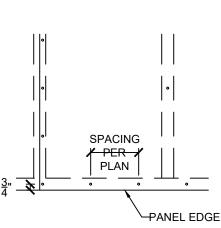
EDGE NAIL SPACING PER PLAN



SPACING PER -PLAN

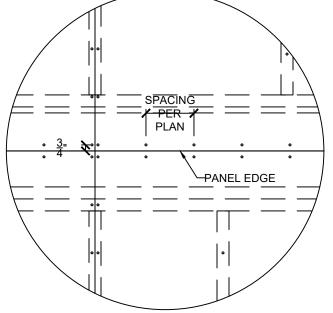
SHEATHING EDGE AT TOP PLATE

(SINGLE ROW OF FASTENERS)

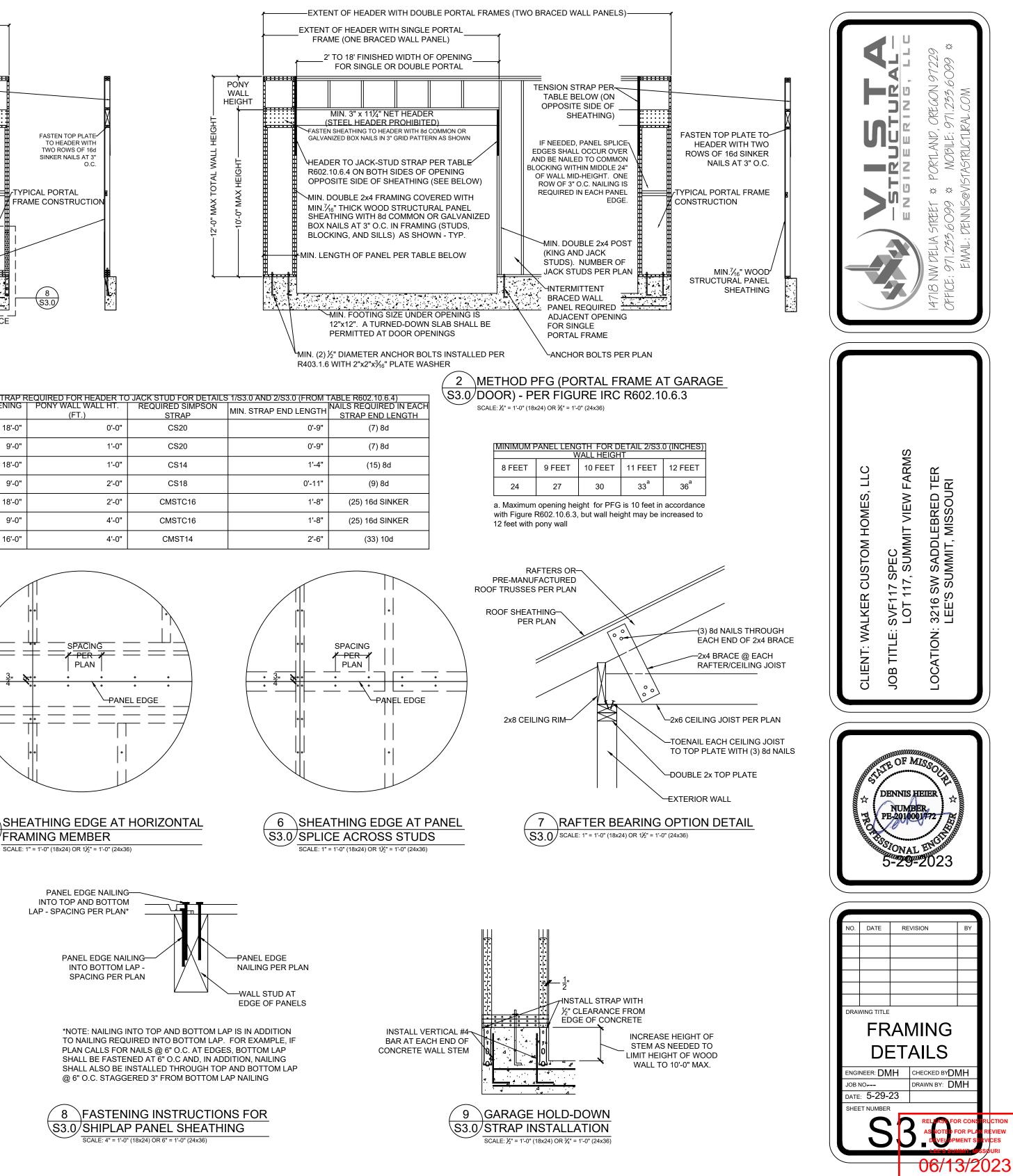


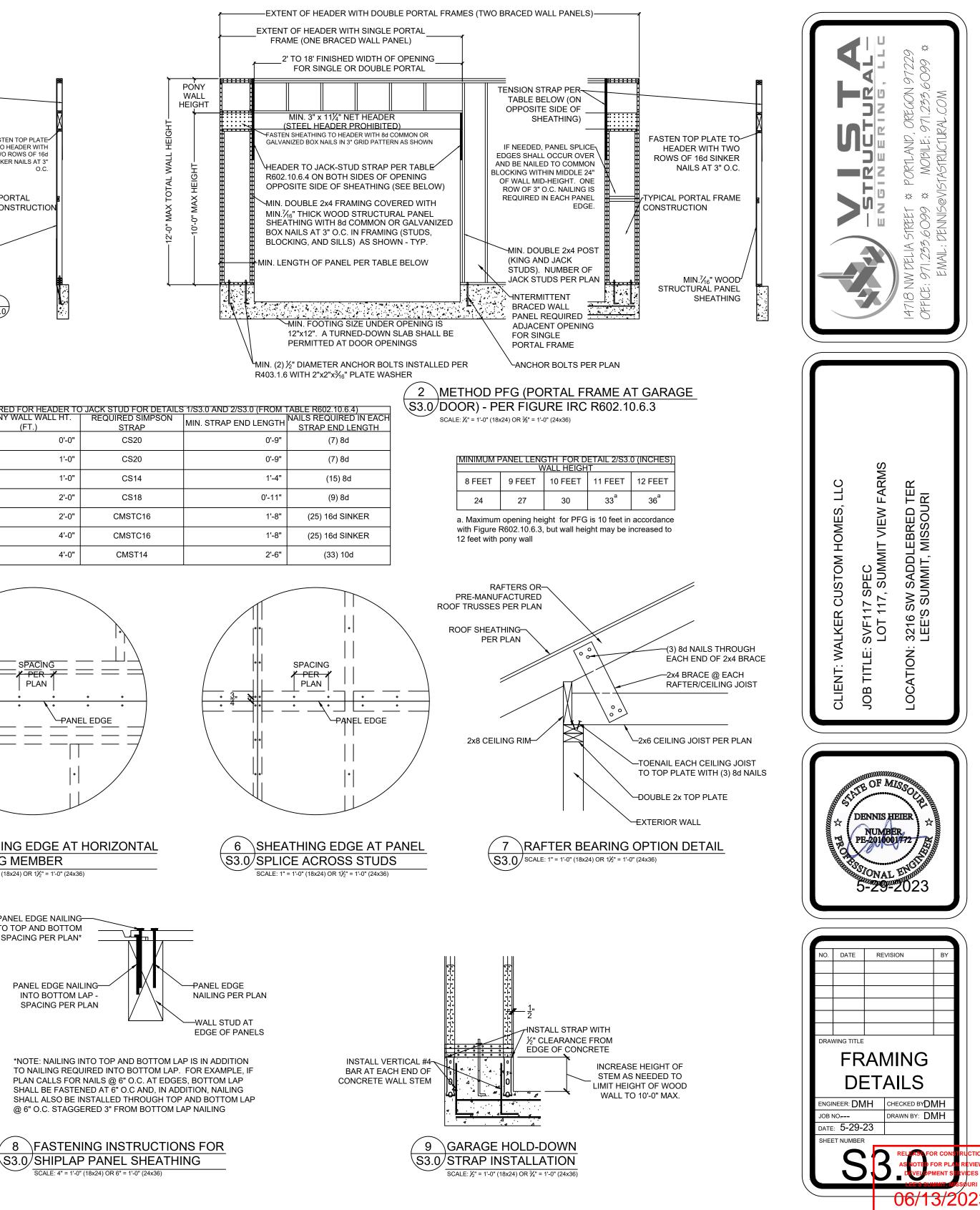
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)

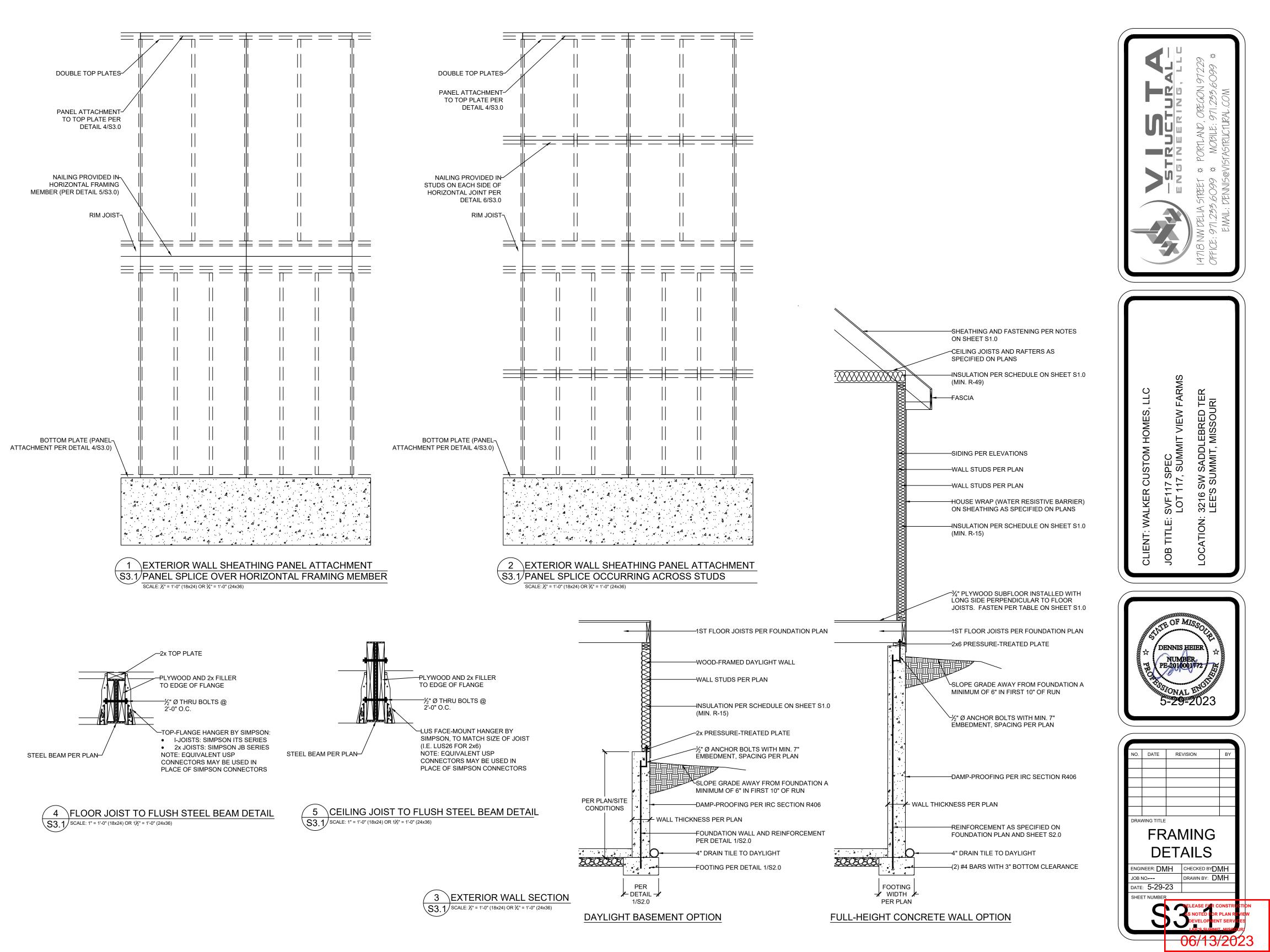


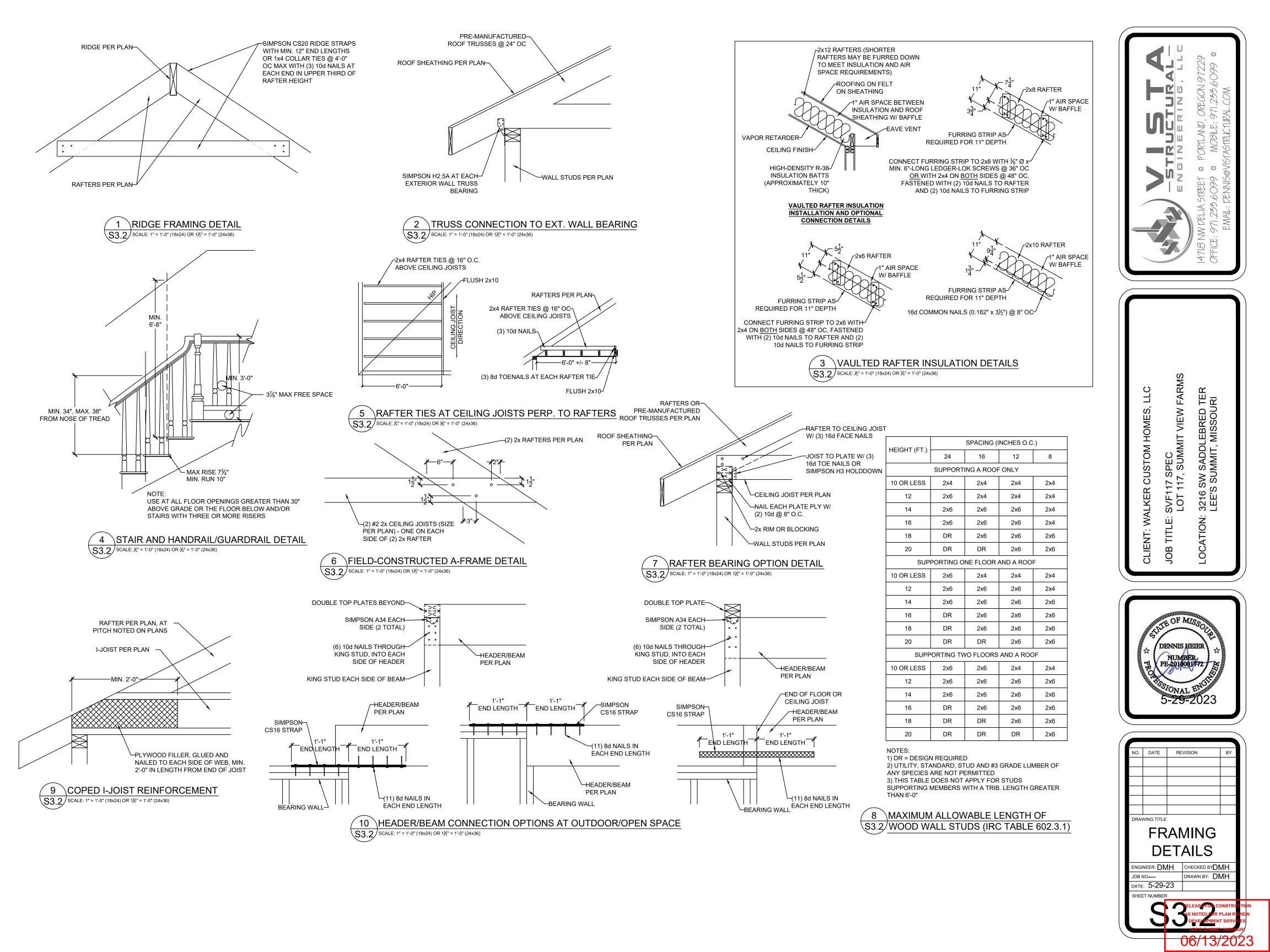


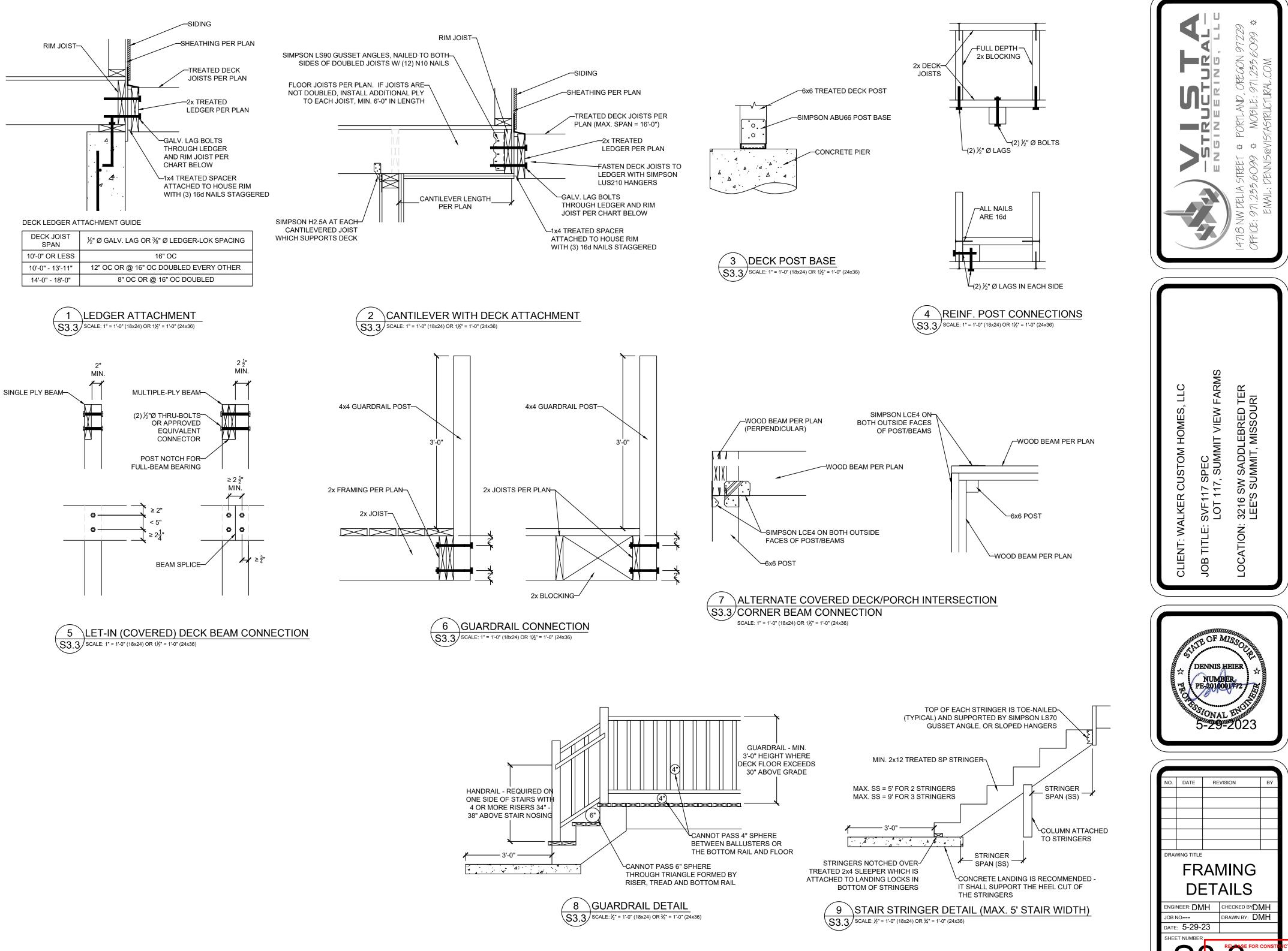
SHEATHING EDGE AT HORIZONTAL 5 ` S3.0/FRAMING MEMBER



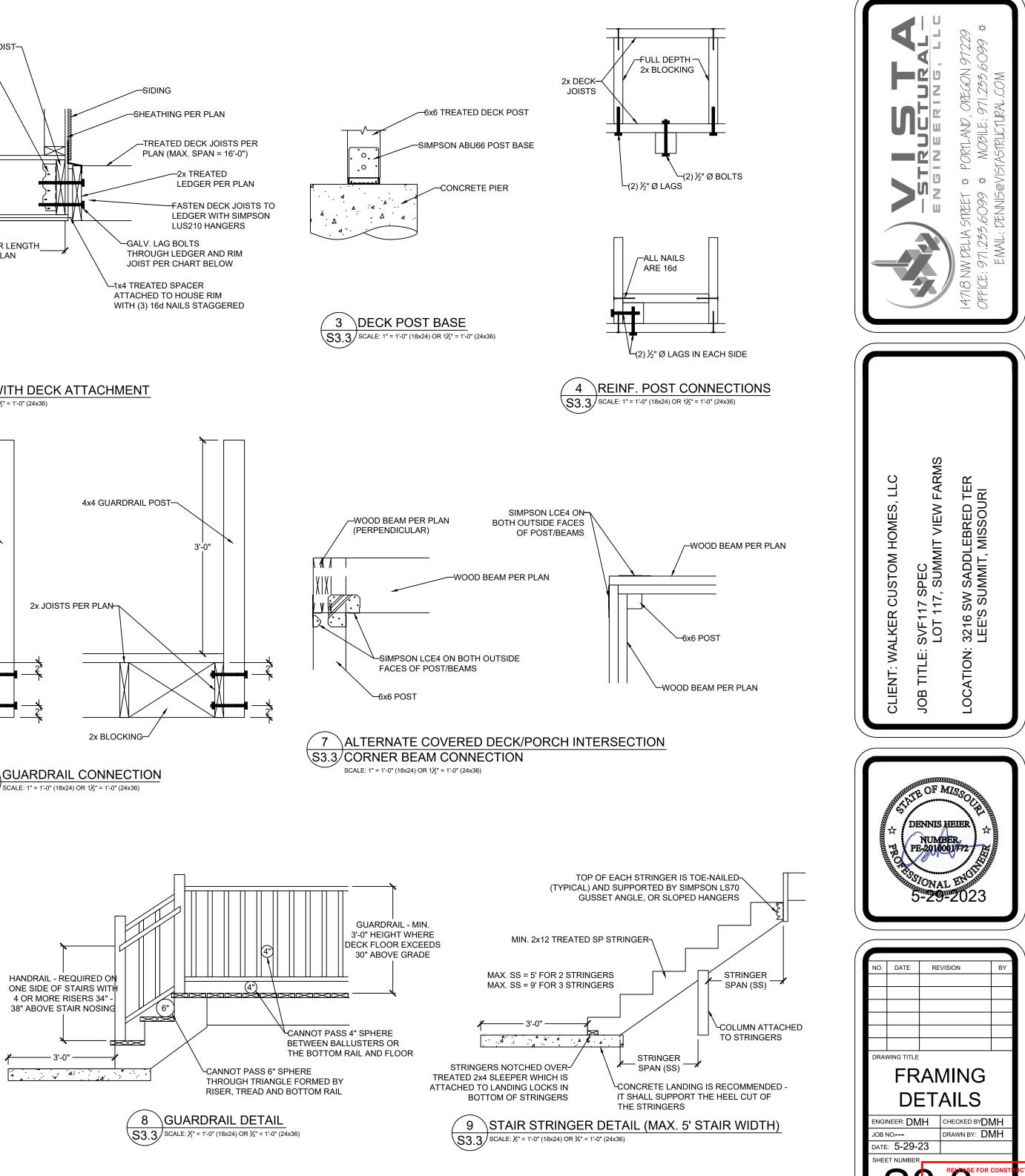












DROPPED BEAM

