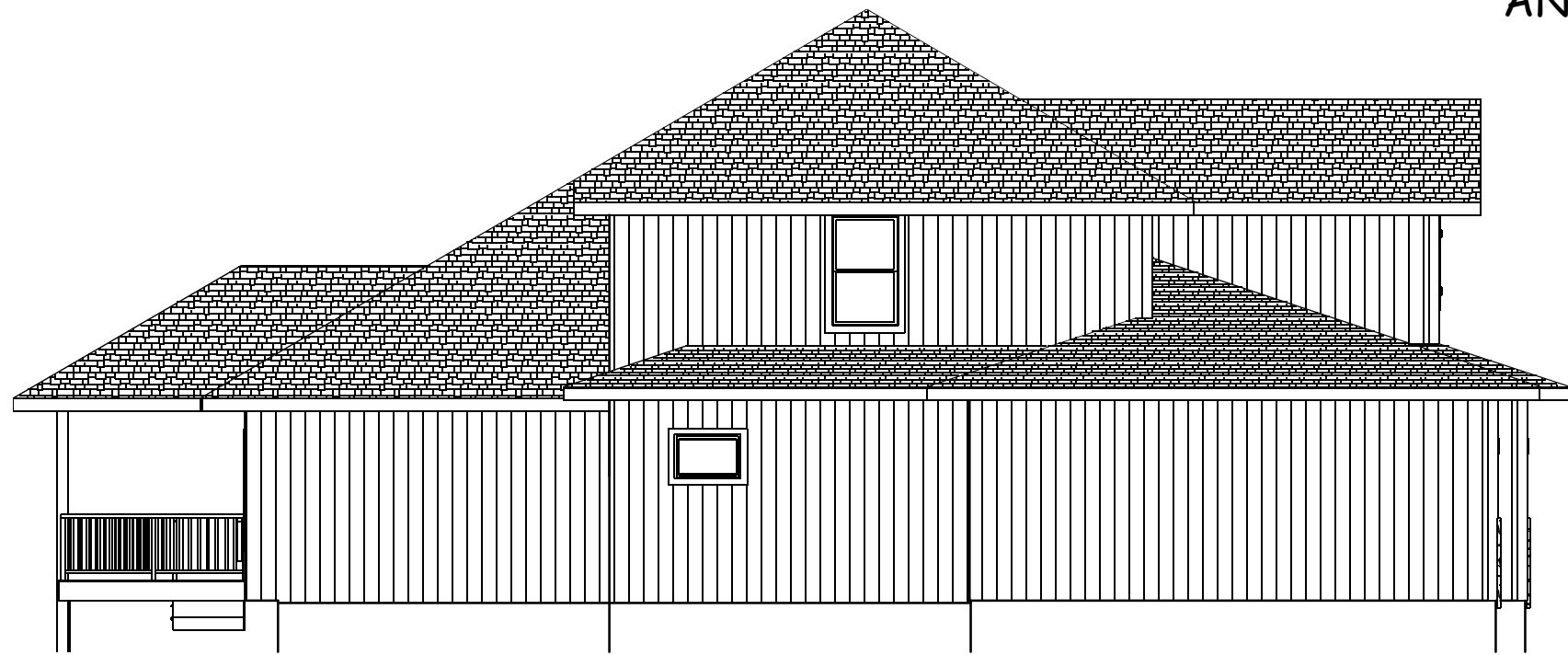


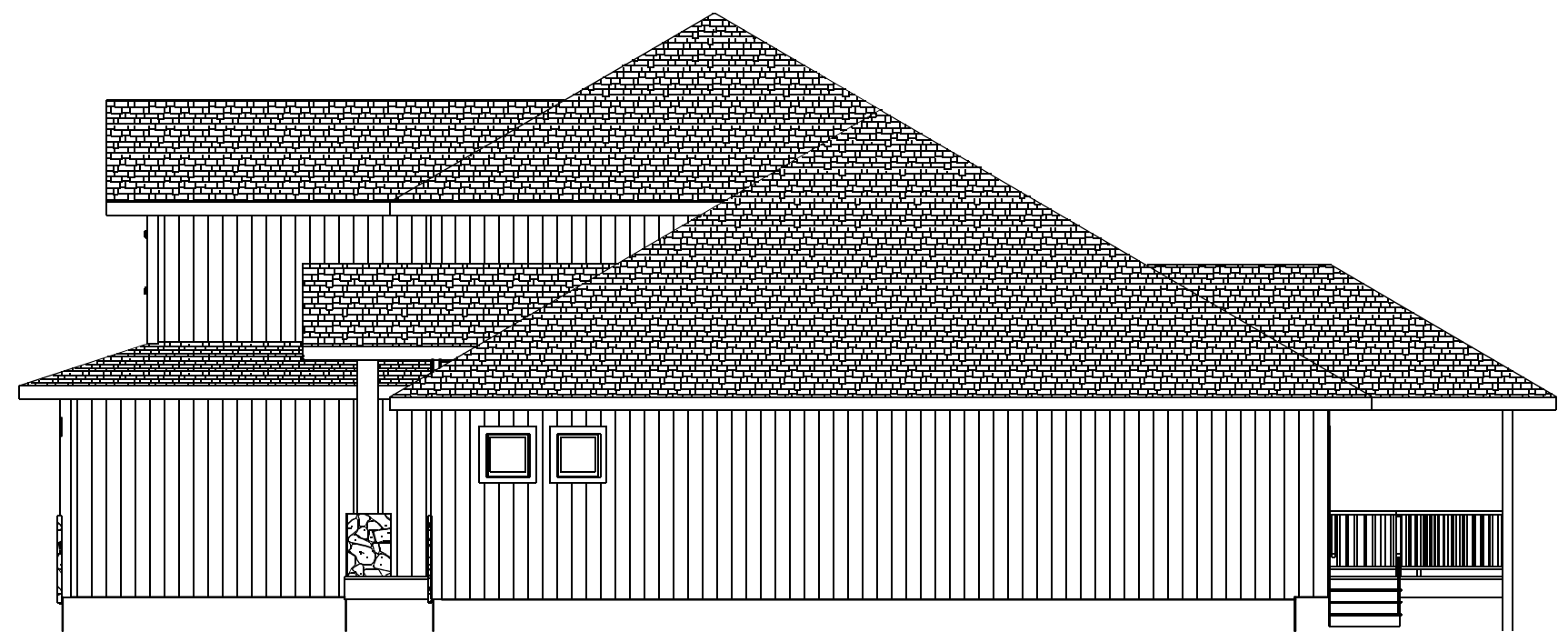


RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/19/2024

FRONT EL.
LAP, BOARD & BATT
AND STONE SIDING

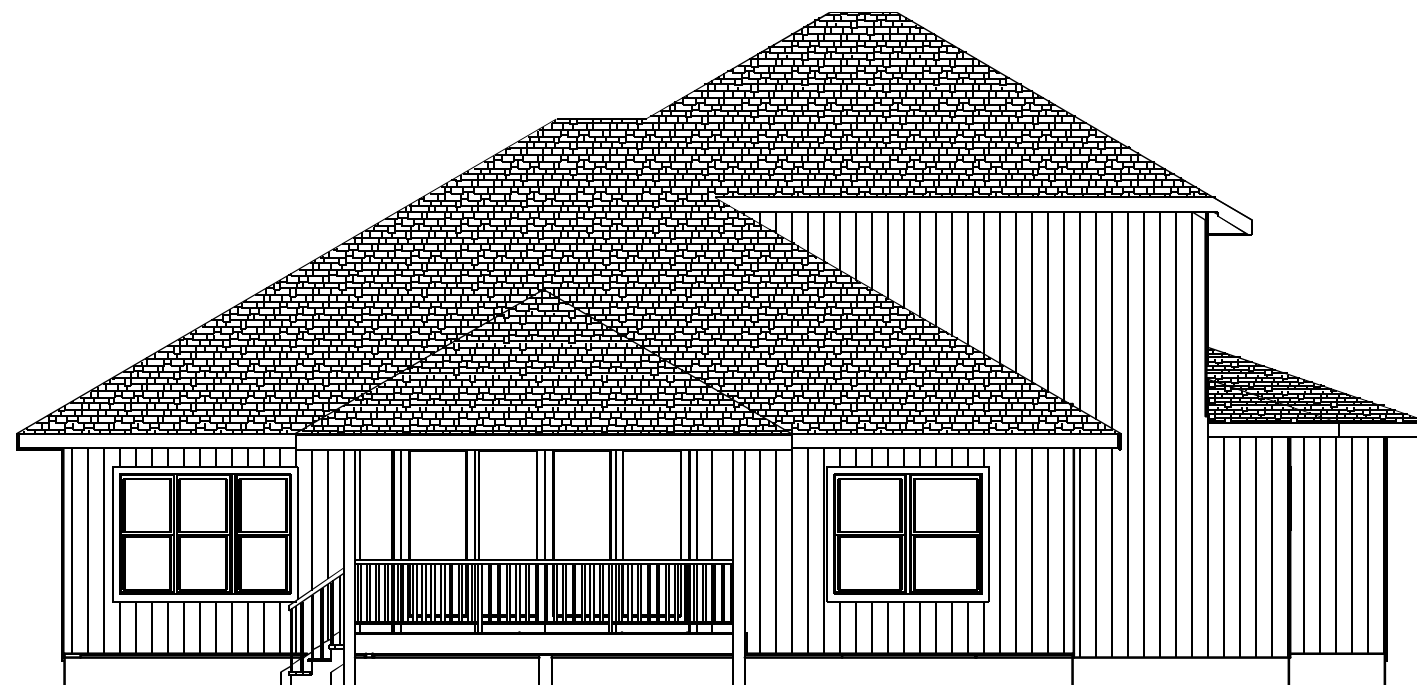


LEFT EL.
1/8" = 1'-0"



RIGHT EL.
1/8" = 1'-0"

3 SIDES LP PANEL SIDING



REAR EL.
1/8" = 1'-0"

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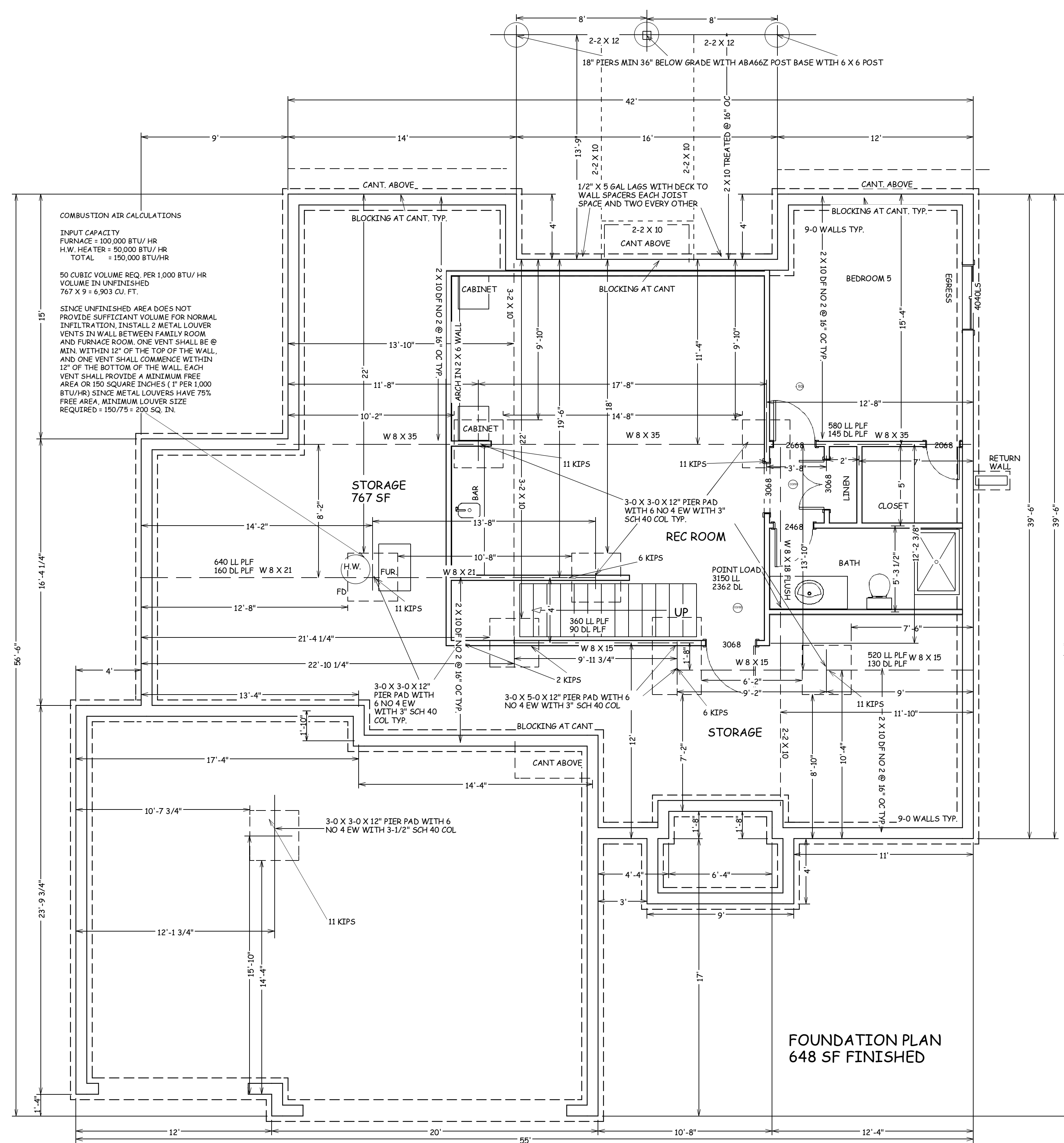
NICK ZVACEK HOMES
ANDERSON III
LOT 115 SUMMIT VIEW FARMS
3217 SW SADDLEBRED TERRACE
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
6-3-24

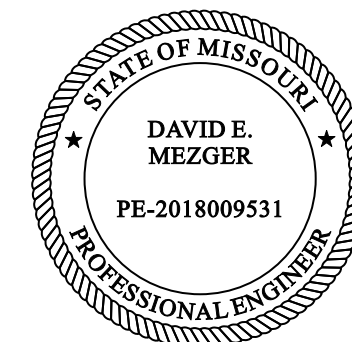
PLAN NO.
4244

SHEET NO.
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NICK ZVACEK HOMES
ANDERSON III
LOT 115 SUMMIT VIEW FARMS
3217 SW SADDLEBRED TERRACE
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
6-3-24

PLAN NO.
4244

SHEET NO.
2 OF 6

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NICK ZVACEK HOMES
ANDERSON III
LOT 115 SUMMIT VIEW FARMS
3217 SW SADDLEBRED TERRACE
LEE SUMMIT MO

SCALE
1/4" = 1-0

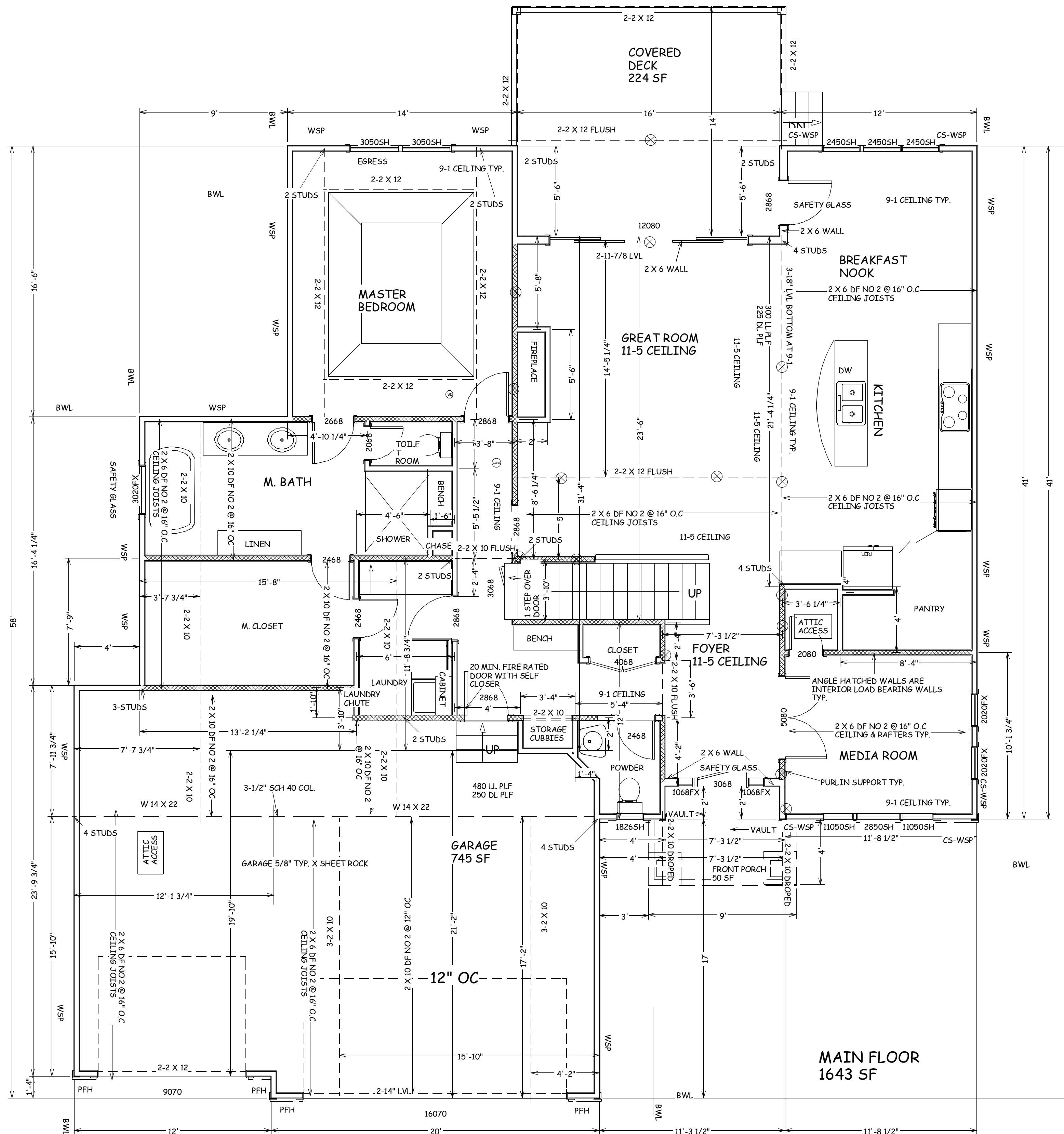
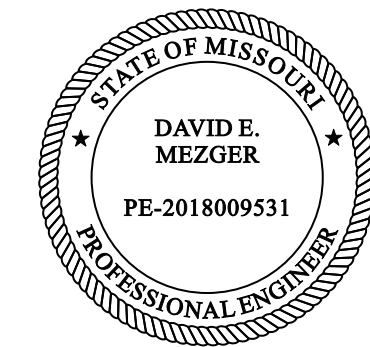
DATE
6-3-24

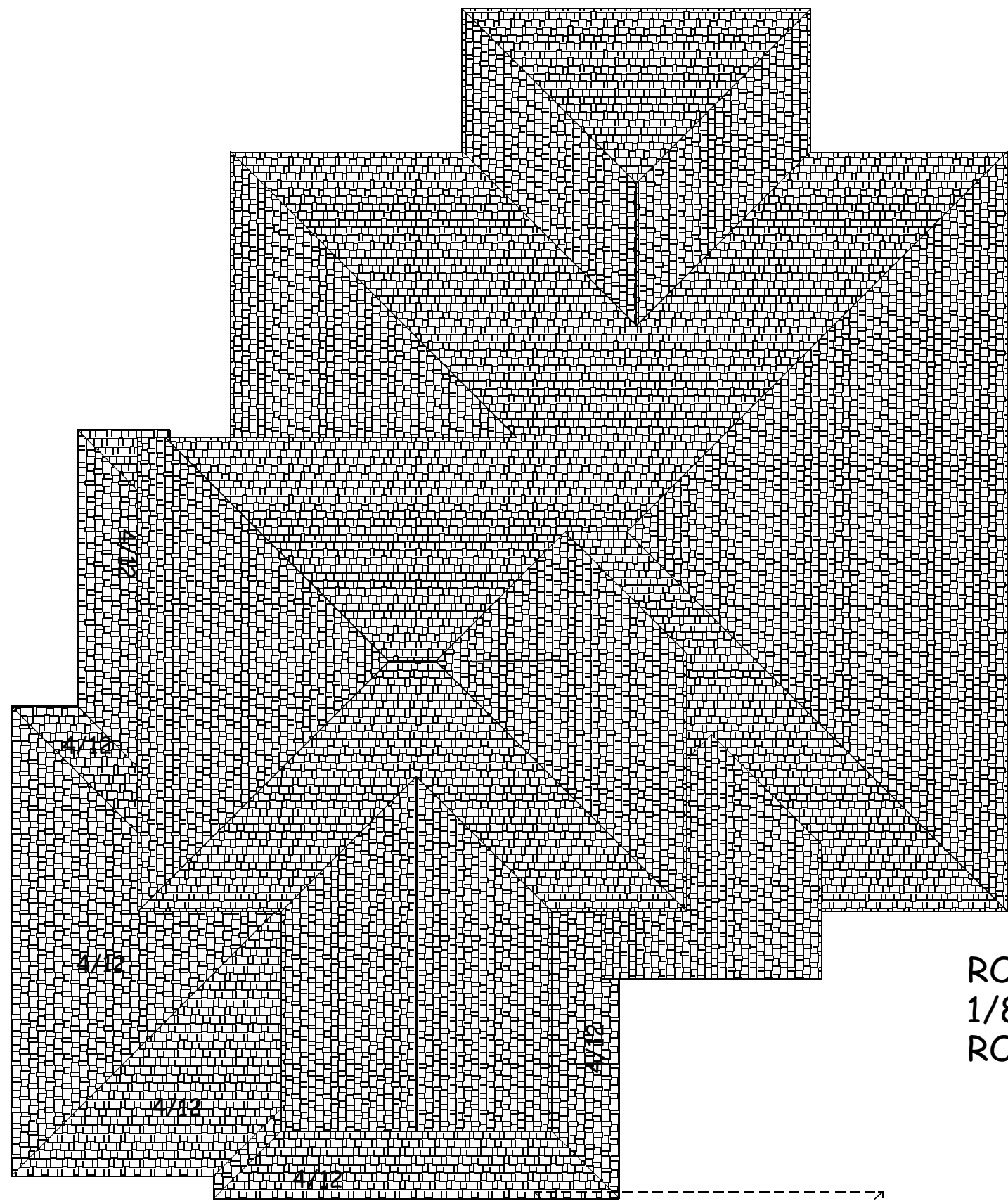
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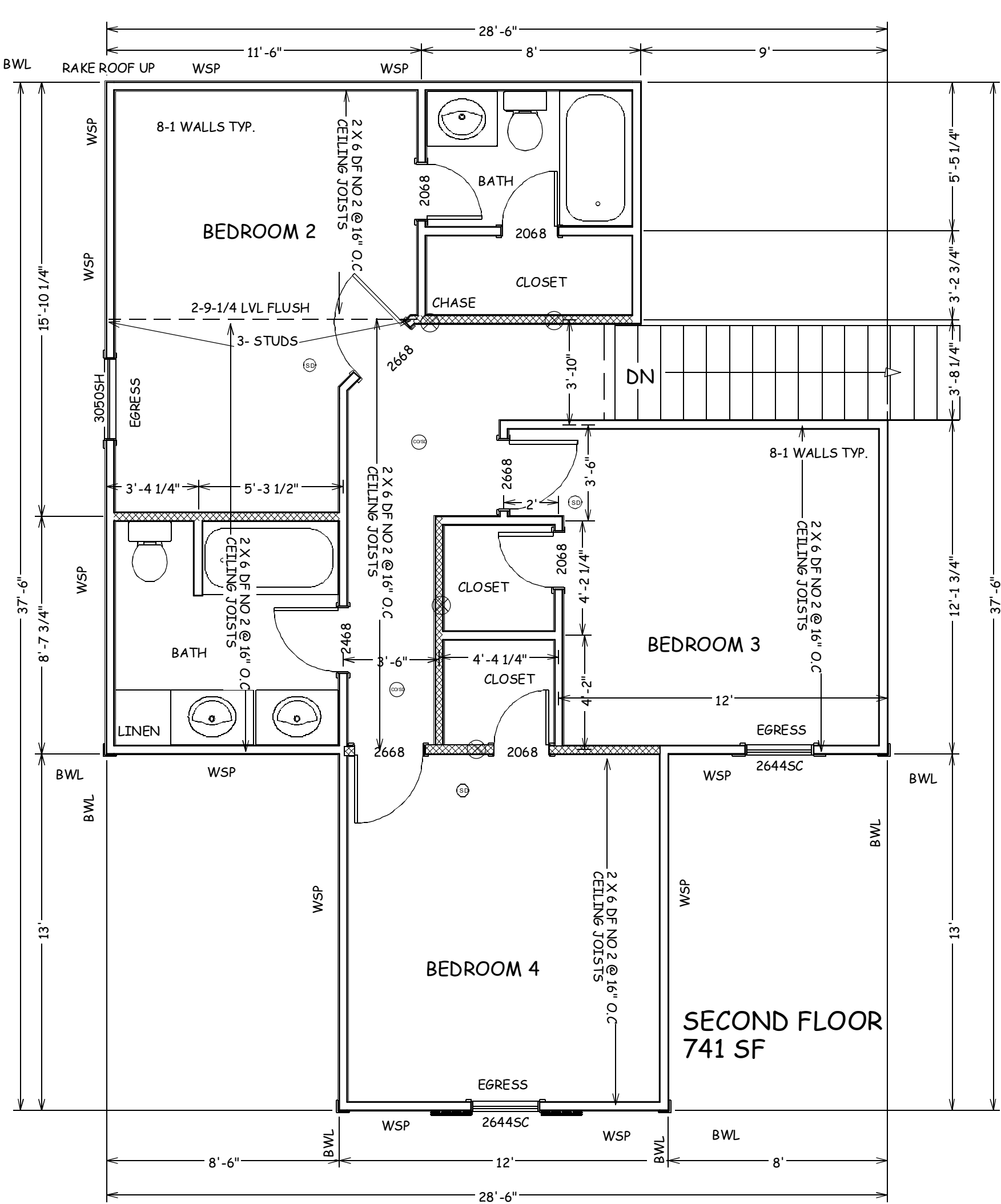




RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.

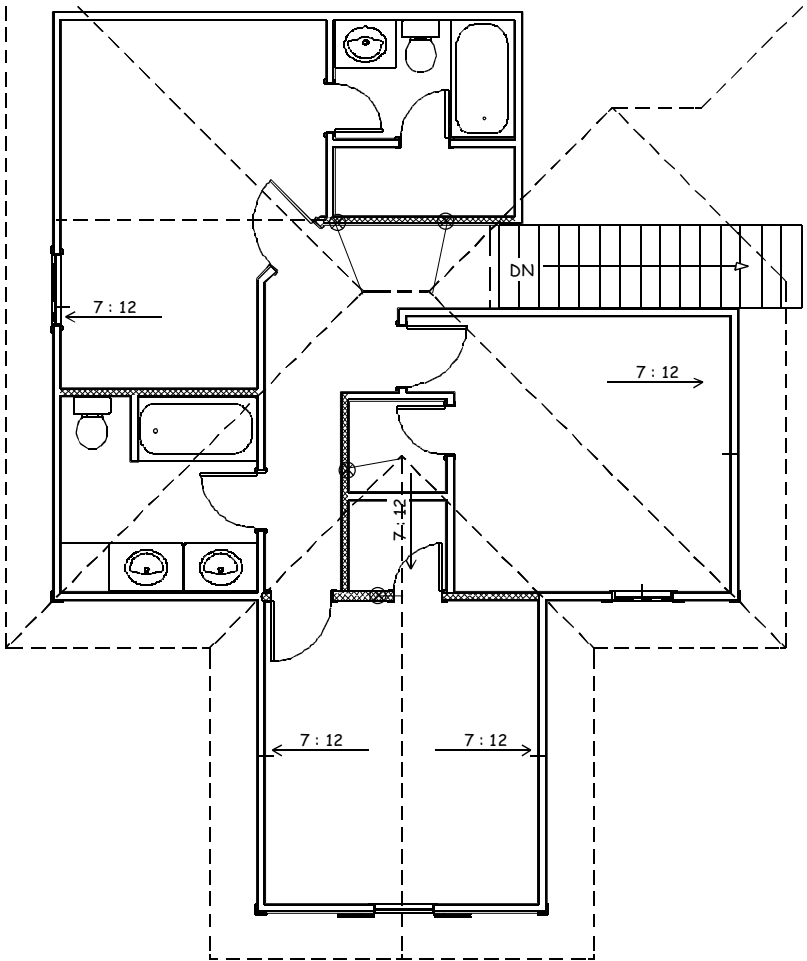
24" SOFFITS TYP.

ROOF PLAN
1/8" = 1-0
ROOF PITCHES 7/12 TYP. UNO

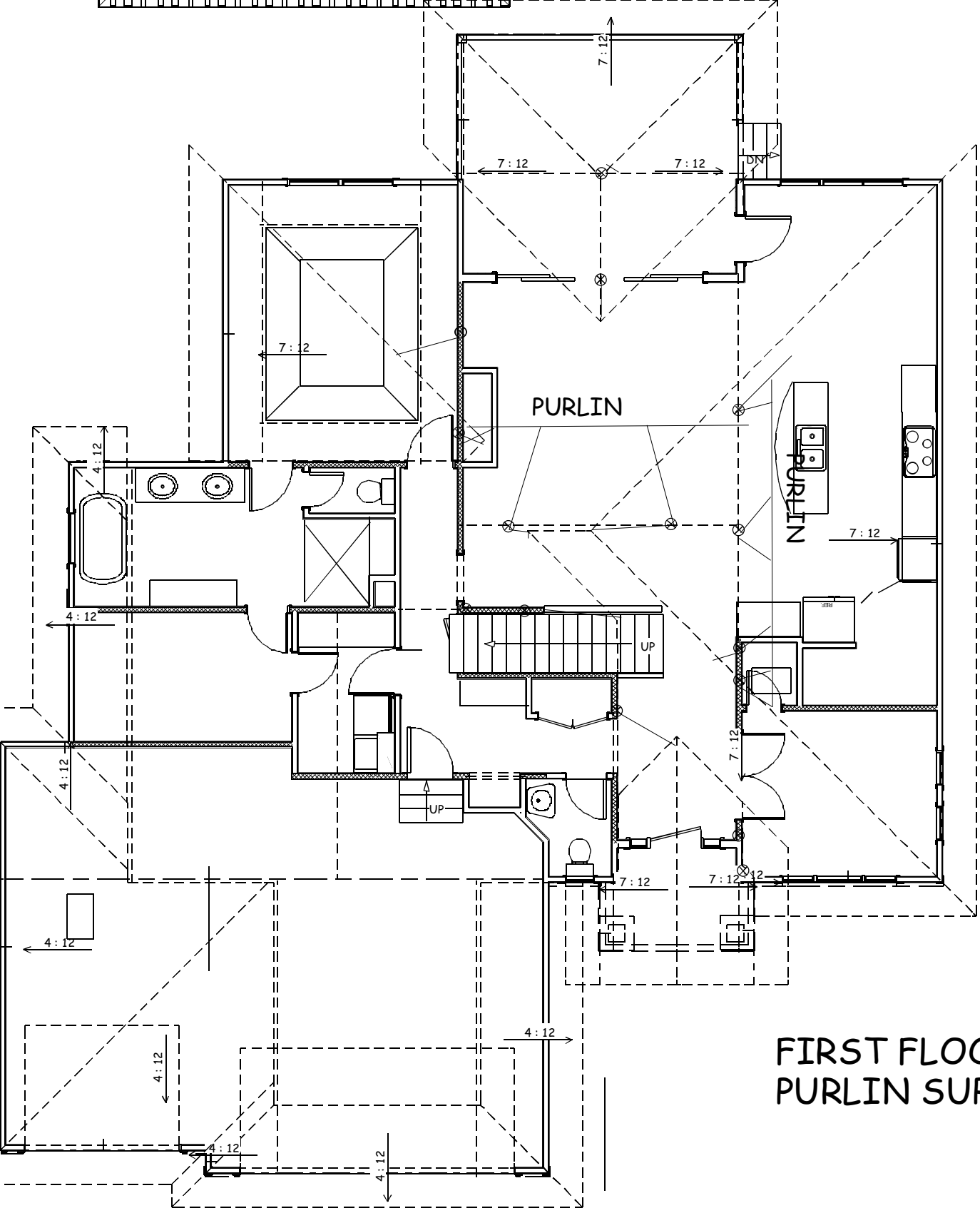


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SECOND FLOOR
PURLIN SUPPORT



FIRST FLOOR
PURLIN SUPPORT

RAFTERS MAX. SPAN
BETWEEN SUPPORTS 14-4

BUILD IN ACCORDANCE WITH
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RESIDENTIAL CODE AND
LOCAL CODES.

NICK ZVACEK HOMES
ANDERSON III
LOT 115 SUMMIT VIEW FARMS
3217 SW SADDLEBRED TERRACE
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
6-3-24

PLAN NO.
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SHEET NO.
4 OF 6

ENERGY CONSERVATION CODE
THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS
R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF
PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

VAULT INSULATION DETAIL

1" AIR SPACE WITH FOAM AIR
CHUTES

R-38 HIGH DENSITY
INSULATION

INTERCONNECTED HARD WIRED SMOKE
DETECTORS SHALL BE INSTALLED IN EACH
BEDROOM AND OUTSIDE OF EACH BEDROOM

ALL PLUMBING IF EXISITING SHALL BE CAPPED
AND AIR TESTED PRIOR TO ROUGH-IN
INSPECTION FOR LEAK VERIFICATION

2 X 10 VAULT RAFTER

2 X 2 NAILED TO BOTTOM OF
RAFTERS 12" O.C. WITH 12 D
NAILS

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING
PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE
EQUIPPED WITH SOLID WOOD OR STEEL DOORS NOT LESS THAN 1-3/8"
THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES
REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1

2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR
ANY DWELLING IN COMPLIANCE WITH IRC M 1505

3. CARBON MONOXIDE DETECTORS REQUIRED IRC R 315

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK SHALL BE BUILT PER TABLES 507.2 , 507.2.1, 507.3, 507.6,
507.5.1(1)&(2), 507.5, AND 507.6

6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR
ROOF DIAPHRAGMS R602.3

7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2

8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND
ROOF BEAMS R802.3.1, R802.11

9. INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING
UNFINISHED BASEMENTS) N1102.1

10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND
GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1

11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS
EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE
IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102.4.1.2 N1103.2.2

12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G.
CAN LIGHTS IN ATTIC) SHALL BE IC- RATED, LEAKAGE- RATED AND
SEALED TO THE GYPSUM WALLBOARD N1102.4.4

13. PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1

14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE
RATE N1103.2.2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE
SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC
N1103.2.2

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR
M1507.2

18. MAKEUP AIR SYSTEM REQUIRED FOR KITCHEN EXHAUST HOODS
THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING
THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS
RETURN AIR PLENUMS

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING
SPACE AND THE GARAGE M1601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ('UFER' GROUND)
CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1

22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS
NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR
UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11
AMENDED RAYMORE CODE

PURLIN LEG O.C. SUPPORT

2 X 6 DF NO 2 4'-0"
2 X 8 DF NO 2 5'-4"
2 X 10 DF NO 2 8'-0"
2 X 12 DF NO 2 9'-6"

SUPPORT LEG FOR PURLINS

2 X 4 8'-0"
2 X 4 W 2 X 4 T - BRACE 9'-7"
2 X 6 W 2 X 6 T - BRACE 17'-2"
2 X 8 W 2 X 6 T - BRACE 17'-4"

NOTE: LOCATE RAFTER TIES
AS NEAR AS PRACTICAL TO
THE TOP OF CEILING JOISTS

2 X 4 RAFTER
TIES AT EVERY
RAFTER TYP.

DOUBLE 2 X 12
2 X 6 @ 16" O.C.

RAFTER AND CEILING JOIST
CONNECTIONS SHALL COMPLY
WITH SECTIONS R802.5.22 OF
THE 2018 IRC.

SKIP ONE CEILING
JOISTS THEN
DOUBLE NEXT
CEILING JOISTS,
FOR RAFTER TIES

RAFTER TIES
SAME SIZE AS
CEILING
JOISTS

VAULT RAFTERS

ROOF FRAMING WITH
CEILING JOISTS NOT
PARALLEL TO RAFTERS

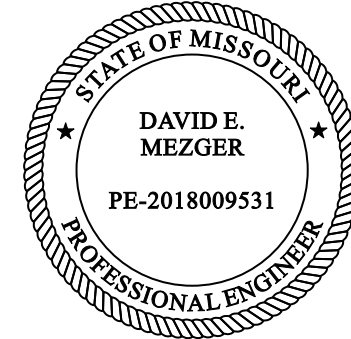
SKIP ONE CEILING
JOISTS THEN DOUBLE
NEXT CEILING JOISTS,
FOR RAFTER TIES

RAFTER TIES
SAME SIZE AS
CEILING
JOISTS

RAFTER TIES

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USE LSTA24 RIDGE STRAPS
ON ALL VAULTS AT RIDGE
OR COLLAR TIES

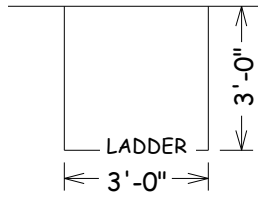
TYP VAULT WITH STRAPS

PIER PADS

TYP. U.N.O. 3-0 X 3-0 X 12" PEIR PADS MIN.
WITH # 4 REBAR, 6 EACH WAY

STUDS OVER 10-0 SHALL HAVE
BLOCKING ALONG WALL MAX
OF 6-0 O.C.

WINDOW EGRESS
REQUIREMENTS



EGRESS WINDOW WELL AS NEEDED
PER SECTION 308 MIN 3-0 X 3-0
WITH LADDER

OVERHEAD GARAGE DOORS
MUST MEET DASMA 115 MPH
OR IRC 2018 REQUIRMENTS

TYPICAL WALL SECTION

WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND
STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS.
SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN
EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING
IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRD WHERE THE NEAREST EXPOSED EDGE OF
THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF
THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM
EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A
WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL
PROTECTION PER IRC 312.2

ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS UNLESS NOTED OTHERWISE

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NICK ZVACEK HOMES
ANDERSON III
LOT 115 SUMMIT VIEW FARMS
3217 SW SADDLEBRED TERRACE
LEE SUMMIT MO

SCALE

1/4" = 1-0

DATE

6-3-24

PLAN NO.

4244

SHEET NO.

5 OF 6

BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
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NICK ZVACEK HOMES
ANDERSON III
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3217 SW SADDLEBRED TERRACE
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SCALE

1/4" = 1'-0

DATE

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PLAN NO.

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SHEET NO.

6 OF 6

TABLE R602.10.3(1) BRACING REQUIREMENTS BASED ON WIND SPEED					
EXPOSURE CATEGORY B • 33-FOOT MEAN ROOF HEIGHT • 10-FOOT WALL HEIGHT • 2 BRACED WALL LINES		MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE ^a			
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB ^b	Method GB	Methods DWB, WSP, SFB, FCB, FPF, BV-WSP, ABW, PFH, FCF, CS-SFB
≤ 115		10	3.5	3.5	2.0
		20	6.5	6.5	3.5
		30	9.5	9.5	4.5
		40	12.5	12.5	6.0
		50	15.0	15.0	7.5
		60	18.0	18.0	9.0
		10	7.0	7.0	4.0
		20	12.5	12.5	6.5
		30	18.0	18.0	9.0
		40	23.5	23.5	11.5
		50	29.0	29.0	14.0
		60	34.5	34.5	17.0
		10	NP	10.0	6.0
		20	NP	18.5	11.0
		30	NP	27.0	15.5
		40	NP	35.0	20.0
		50	NP	43.0	24.5
		60	NP	51.0	29.0

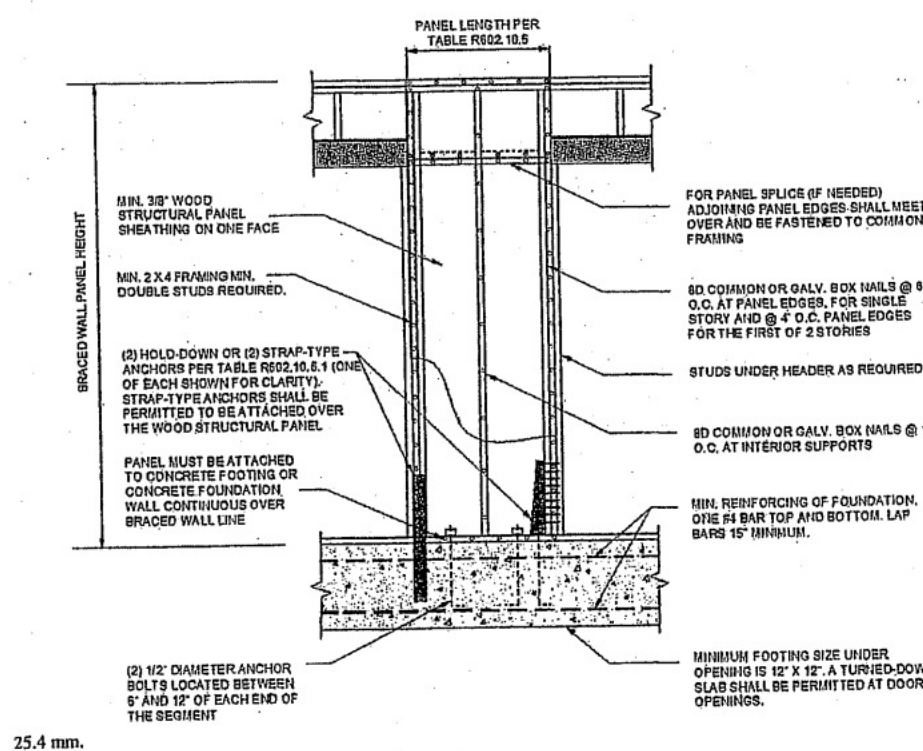


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

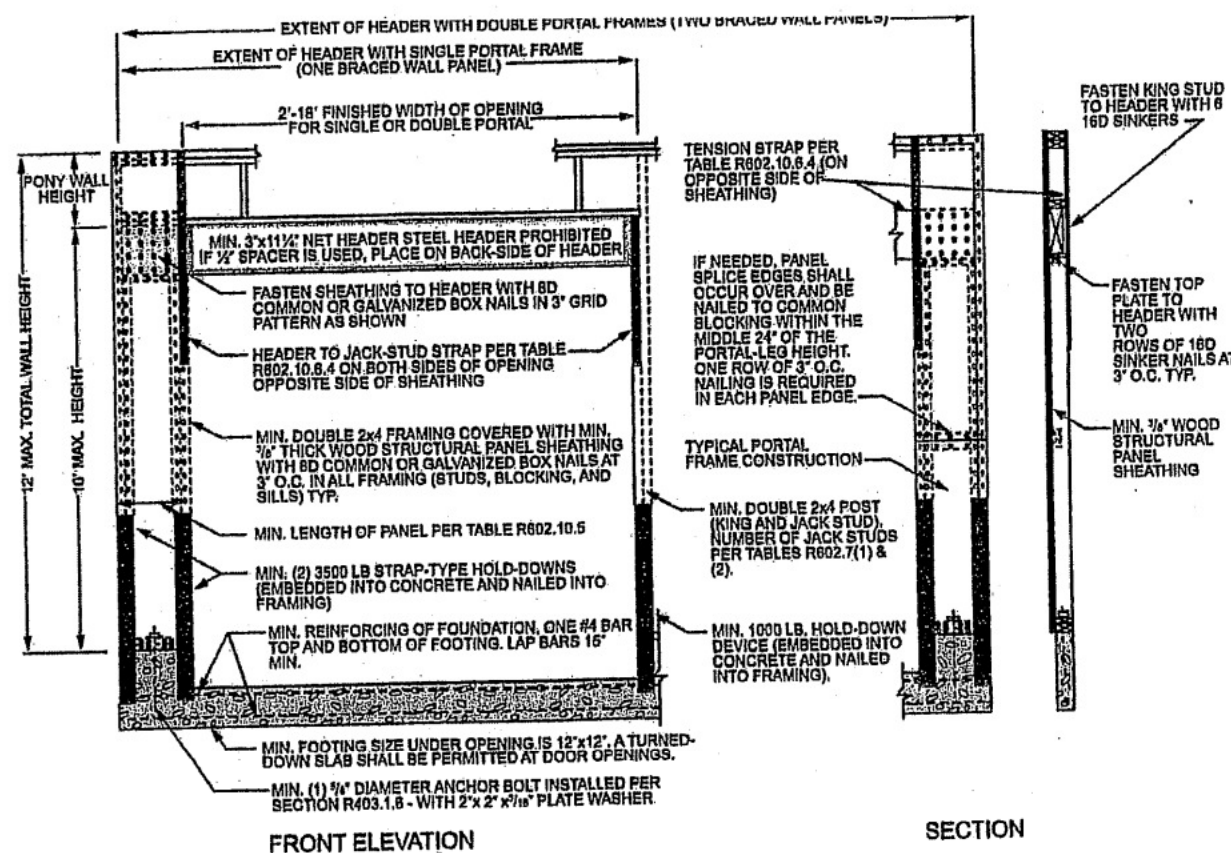
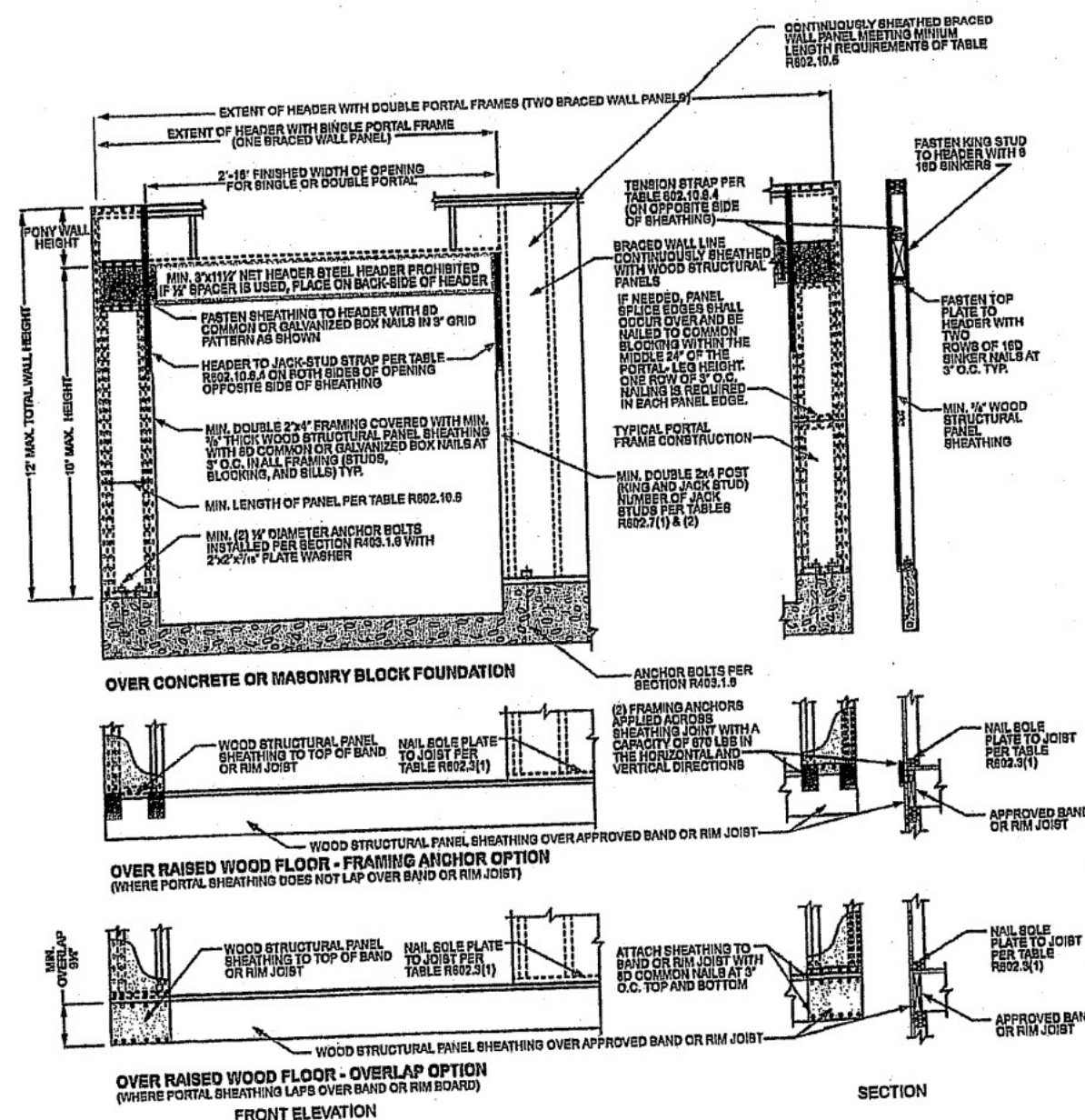


FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

TABLE R602.10.4 BRACING METHODS				
METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
			Fasteners	Spacing
LIB Let-in-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing.		Wood: 2-8d common nails or 3-8d (2 1/4" long x 0.113" dia.) nails Metal strap: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
DWB Diagonal wood boards	3/4" (1" nominal) for maximum 24" stud spacing		2-8d (2 1/4" long x 0.113" dia.) nails or 2 - 1 1/4" long staples	Per stud
WSP Wood structural panel (See Section R604)	3/8"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener
BV-WSP ^b Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	3/8"	See Figure R602.10.6.5	8d common (2 1/4" x 0.131") nails	4" at panel edges 12" at intermediate supports 4" at brace wall panel end posts
SFB Structural fiberboard sheathing	1/2" or 3/4" for maximum 16" stud spacing		1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 1/4" long x 0.12" dia. (for 3/4" thick sheathing) galvanized roofing nails	3" edges 6" field
GB Gypsum board	1/2"		Nails or screws per Table R602.3(1) for exterior locations Nails or screws per Table R702.3.5 for interior locations	For all braced wall panel locations: 7" edges (including top and bottom planes) 7" field
FB Particleboard sheathing (See Section R605)	3/8" or 1/2" for maximum 16" stud spacing		For 1/2", 6d common (2" long x 0.113" dia.) nails For 3/8", 8d common (2 1/2" long x 0.131" dia.) nails	3" edges 6" field
FCF Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 1/2" long, 11 gage, 3/8" dia. head nails 1/4" long, 16 gage staples	6" o.c. on all framing members
HFS Hardboard panel siding	3/8" for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs	4" edges 8" field
ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS						
METHOD (See Table R602.10.4)	MINIMUM LENGTH ^a (Inches)					CONTRIBUTING LENGTH (Inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, FCB, FCF, HFS, BV-WSP	48	48	48	53	58	Actual ^b
GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual
LIB	55	62	69	NP	NP	Actual ^b
ABW	SDC A, B and C, ultimate design wind speed ≤ 140 mph	28	32	34	38	42
	SDC D ₁ , D ₂ and D ₃ , ultimate design wind speed ≤ 140 mph	32	32	34	NP	NP
CS-G	Adjacent clear opening height (Inches)	24	27	30	33	36
CS-WSP, CS-SFB	≤ 64	24	27	30	33	36
	68	26	27	30	33	36
	72	27	27	30	33	36
	76	30	29	30	33	36
	80	32	30	30	33	36
	84	35	32	32	33	36
	88	38	35	33	33	36
	92	43	37	35	35	36
	96	48	41	38	36	36
	100	—	44	40	38	39
	104	—	49	43	40	39
	108	—	54	46	43	41
	112	—	—	50	45	43
	116	—	—	55	48	45
	120	—	—	60	52	48
	124	—	—	—	56	51
	128	—	—	—	61	53
METHOD (See Table R602.10.4)	Partial header height	8 feet	9 feet	10 feet	11 feet	12 feet
	PFH Supporting roof only	16	16	16	Note c	Note c
	PFH Supporting one story and roof	24	24	24	Note c	Note c
	PFH	24	27	30	Note d	Note d
	CS-PF SDC A, B and C	16	18	20	Note e	Note e
	CS-PF SDC D ₁ , D ₂ and D ₃	16	18	20	Note e	Note e
	CS-PF	16	18	20	Note e	Note e

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.
NP = Not Permitted.
a. Linear interpolation shall be permitted.
b. Use the actual length where it is greater than or equal to the minimum length.
c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.
d. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.
e. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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