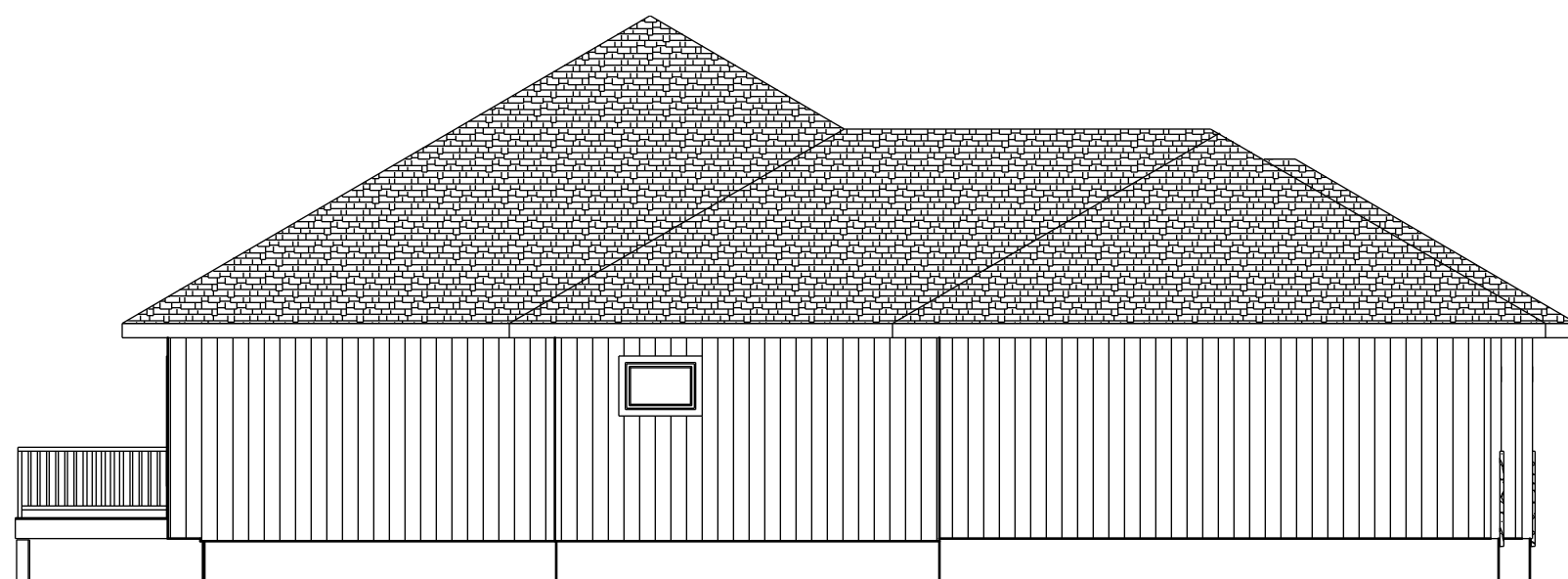
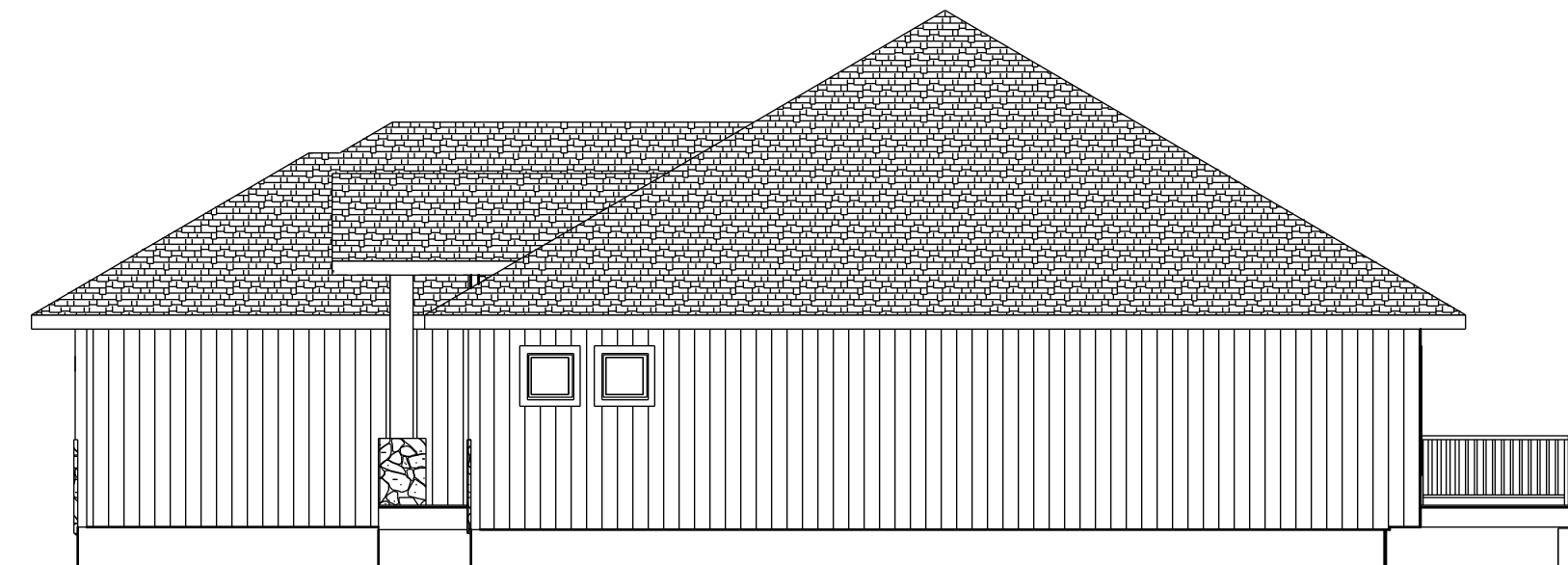


FRONT EL.
LAP, BOARD & BATT
AND STONE SIDING



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



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

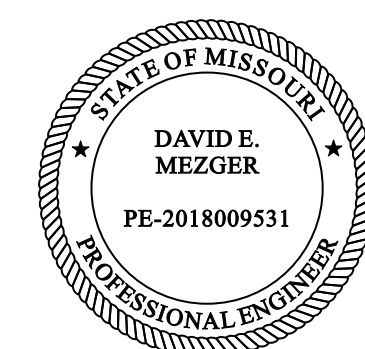


REAR EL.
1/8" = 1'-0"

3 SIDES LP PANEL SIDING

Review and Approval
Structural Only

David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116



BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

NICK ZVACEK HOMES
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST.
LEE SUMMIT MO

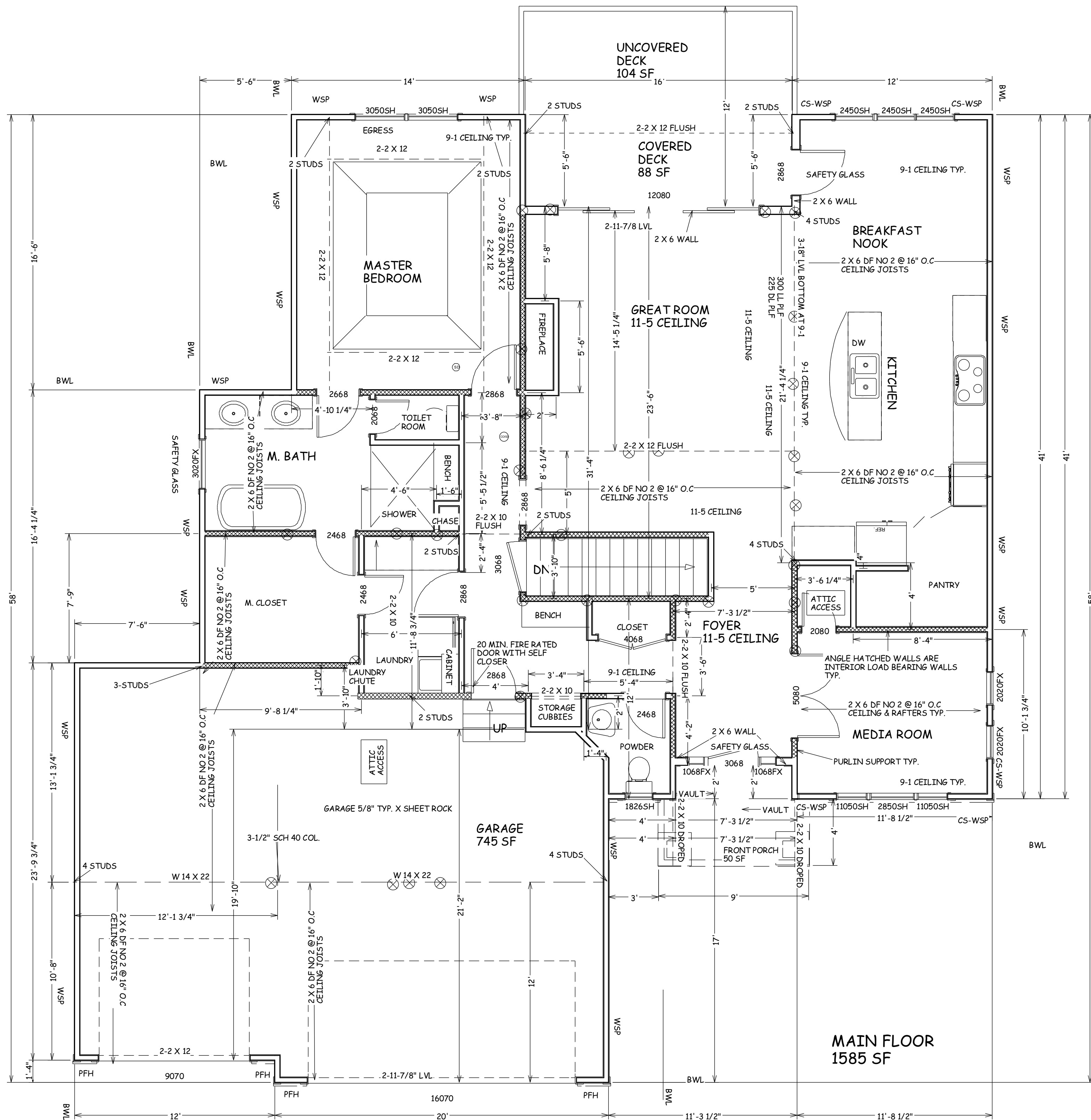
SCALE
1/4" = 1'-0"

DATE
6-27-24

PLAN NO.
4247

SHEET NO.
1 OF 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/25/2024 8:38:16



Review and Approval
Structural Only

David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116



BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

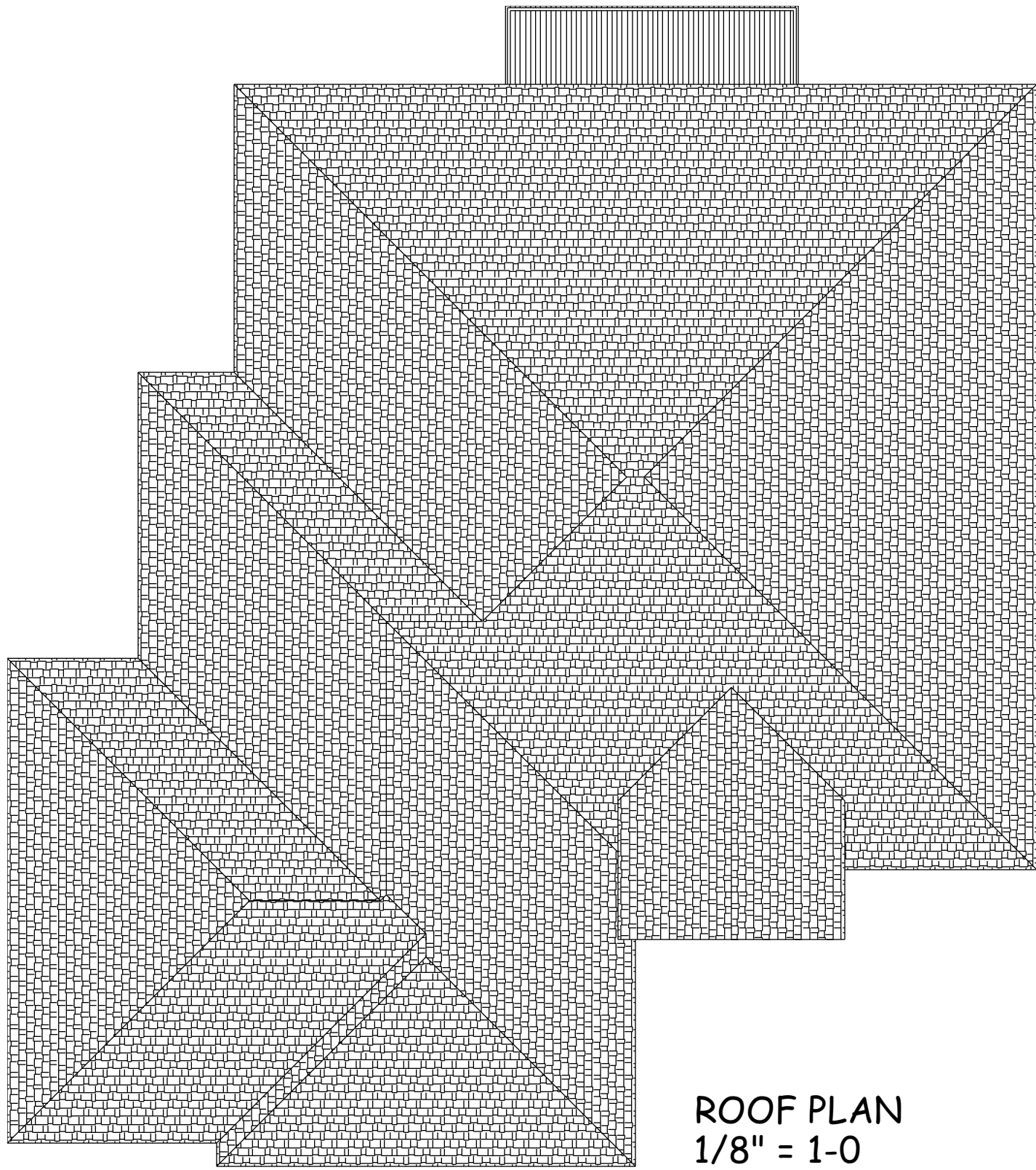
NICK ZVACEK HOMES
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST.
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
6-27-24

PLAN NO.
4247

SHEET NO.
3 OF 6

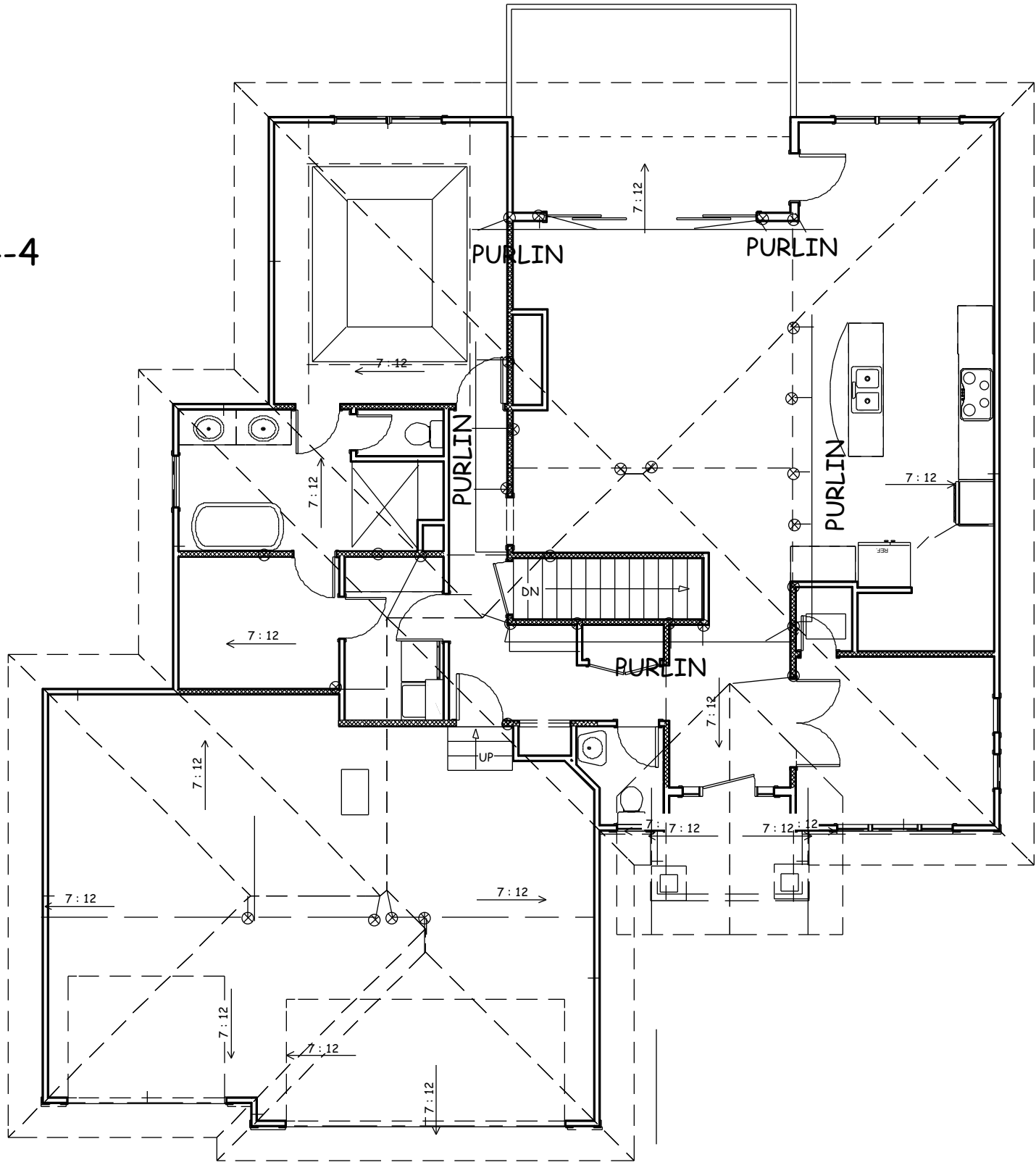


ROOF PLAN
1/8" = 1-0
ROOF PITCHES 7/12 TYP. UNO

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

24" SOFFITS TYP.

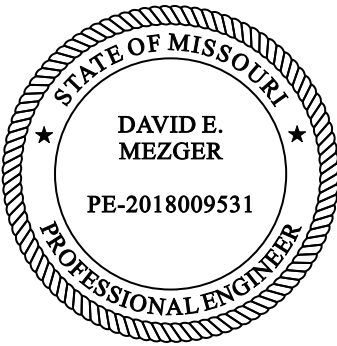
RAFTERS MAX. SPAN
BETWEEN SUPPORTS 14-4



FIRST FLOOR
PURLIN SUPPORT

Review and Approval
Structural Only

David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116



BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

NICK ZVACEK HOMES
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST.
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
6-27-24

PLAN NO.
4247

SHEET NO.
4 OF 6

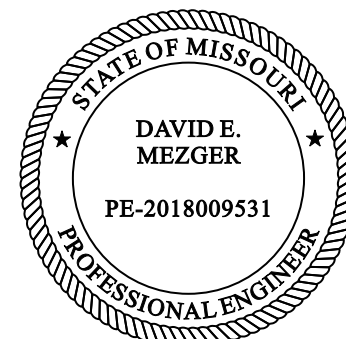
DUCTWORK NEEDS TO HAVE AN R-8 VALUE



- RETE EXPOSED TO
GARAGE SLABS
S WALLS AND FLATWORK
VE 6% AIR ENTRAINMENT



David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116



5 OF 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/25/2024 8:38:16

EXPOSURE CATEGORY B • 30-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				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB ^a	Method GB	Methods DWB, WSP, SFB, FBS, FCP, HFS, BV-WSP, ABW, PFH, FCP, 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

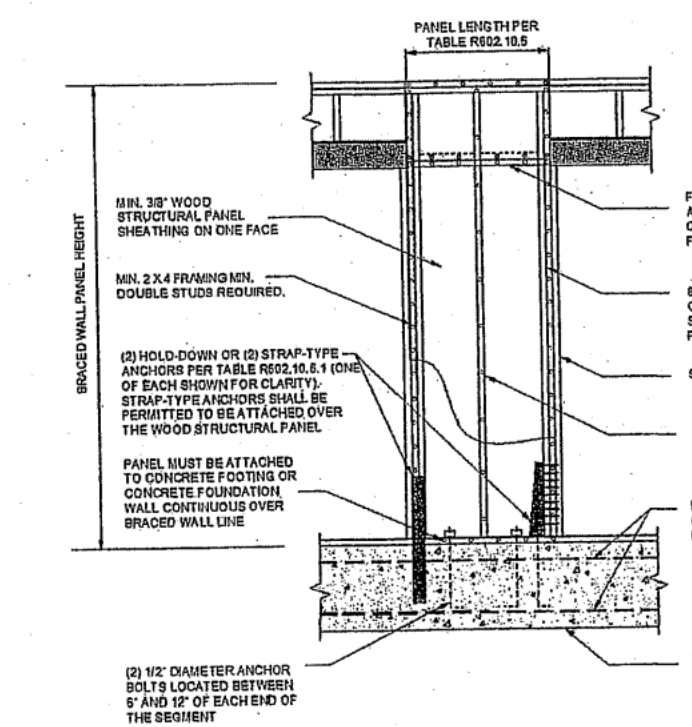


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

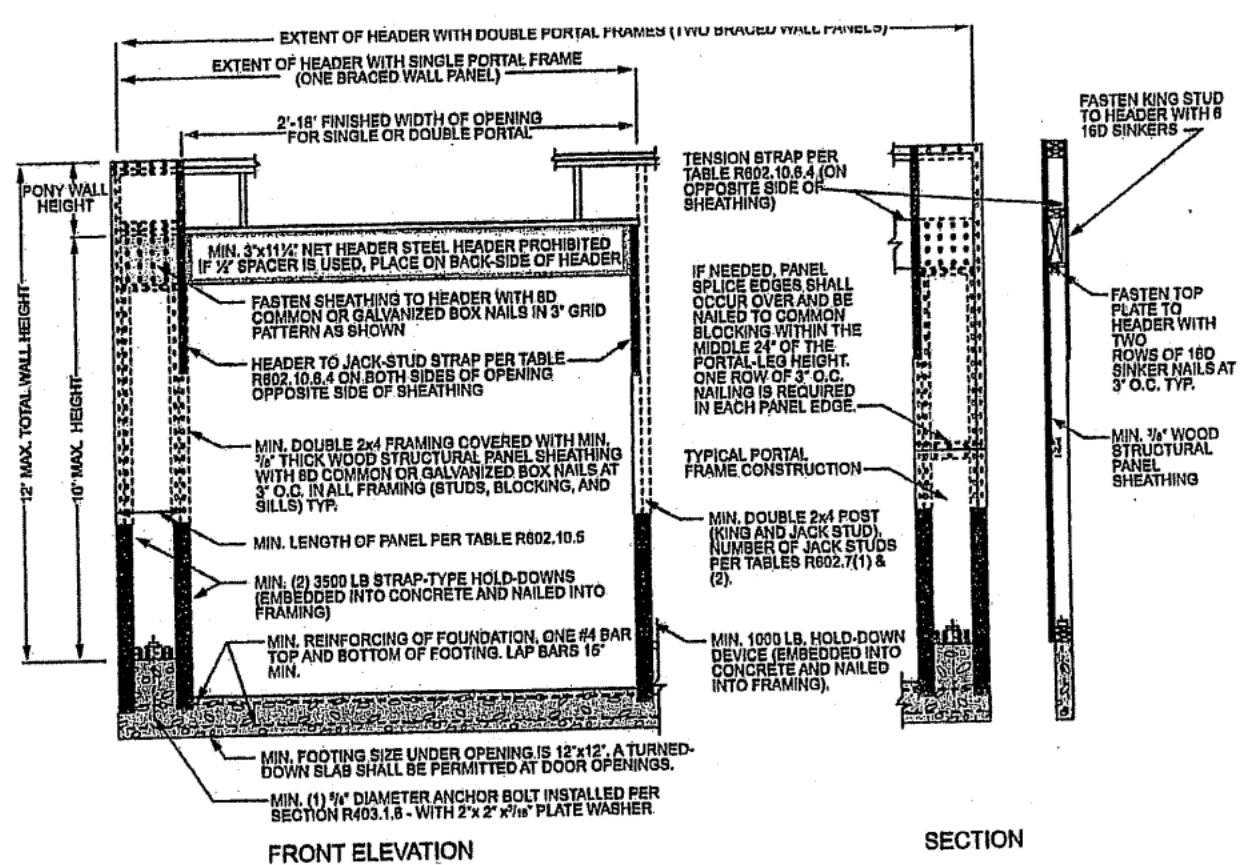




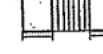
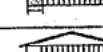





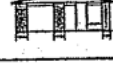

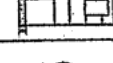
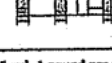


FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
			Fasteners	Spacing
Intermittent Bracing Methods	LIB Let-in-bracing	1 × 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 1/2" long × 0.113" dia.) nails Metal strap: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards	7/8" (1" nominal) for maximum 24" stud spacing	 2-8d (2 1/2" long × 0.113" dia.) nails or 2 - 1 1/4" long staples	Per stud
	WSP Wood structural panel (See Section R604)	7/8"	 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
	BY-WSP ^b Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/8"	See Figure R602.10.6.5	4" at panel edges 12" at intermediate supports 4" at braced wall end post joints
	SFB Structural fiberboard sheathing	1/2" or 7/16" for maximum 16" stud spacing	 1 1/2" long × 0.12" dia. (for 1/2" thick sheathing) or 1 1/4" long × 0.12" dia. (for 7/16" 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 locations: 7" edges (including top and bottom plates) 7" field
	FRS Particleboard sheathing (See Section R605)	7/8" or 1 1/4" for maximum 16" stud spacing	 For 7/8", 6d common (2" long × 0.113" dia.) nails For 1 1/4", 8d common (2 1/4" long × 0.131" dia.) nails	3" edges 6" field
	FCP Foamed cement plaster	See Section R703.7 for maximum 16" stud spacing	 1 1/2" long, 11 gage, 7/16" dia. head nails or 7/16" long, 16 gage staples	6" o.c. on all framing members
	HPS Hardboard panel siding	7/16" for maximum 16" stud spacing	 0.092" dia., 0.225" dia. head nails with length to accommodate 1/4" penetration into studs	4" edges 8" field
	ABW Alternate braced wall	7/8"	 See Section R602.10.6.1	See Section R602.10.6.1

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, FBS, FCP, 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
ABW	55	62	69	NP	NP	Actual ^b
SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	32	32	34	NP	NP	
CS-G	24	27	30	33	36	Actual ^b
CS-WSP, CS-SFB	Adjacent clear opening height (inches)					Actual ^b
	≤ 64	24	27	30	33	
	68	26	27	30	33	
	72	27	27	30	33	
	76	30	29	30	33	
	80	32	30	30	33	
	84	35	32	32	33	
	88	38	35	33	33	
	92	43	37	35	35	
	96	48	41	38	36	
	100	—	44	40	38	
	104	—	49	43	40	
	108	—	54	46	43	
	112	—	—	50	45	
	116	—	—	55	48	
	120	—	—	60	52	
	124	—	—	—	56	
	128	—	—	—	61	
	132	—	—	—	66	
	136	—	—	—	66	
	140	—	—	—	72	
	144	—	—	—	—	
METHOD (See Table R602.10.4)	Portal header height					Actual ^b
	8 feet	9 feet	10 feet	11 feet	12 feet	
	Supporting roof only	16	16	16	Note c	
	Supporting one story and roof	24	24	24	Note c	
PFH	24	27	30	Note d	Note d	1.5 x Actual ^b
PFH	24	27	30	Note d	Note d	1.5 x Actual ^b
CS-PF	SDC A, B and C	16	18	20	Note e	Actual ^b
	SDC D ₁ , D ₂ and D ₃	16	18	20	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 PFH 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.

TABLE R602.10.4—continued BRACING METHODS					
METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
				Fasteners	Spacing
Intermittent Bracing Methods	PFH Portal frame with hold-downs	1/4"		See Section R602.10.6.2	See Section R602.10.6.2
	FFG Portal frame at garage	3/16"		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP Continuously sheathed wood structural panel	3/4"		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
	CS-G ⁺ Continuously sheathed wood structural panel adjacent to garage openings	3/4"		See Method CS-WSP	See Method CS-WSP
	CS-FF Continuously sheathed portal frame	3/16"		See Section R602.10.6.4	See Section R602.10.6.4
	CS-GRB ⁺ Continuously sheathed structural fiberboard	1/2" or 3/16" for maximum 16" stud spacing		1 1/4" long x 0.12" dia. (for 1/4" thick sheathing) 1 1/4" long x 0.12" dia. (for 3/16" thick sheathing) galvanized roofing nails	3" edges 6" field

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m², 1 mile per hour = 0.447 m/s.
 a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₁, D₂, and D₃.
 b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D₁, D₂, and D₃, roof covering dead load shall not exceed 3 psf.
 c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R602.10.1. A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.
 d. Method CS-SFB does not apply in Seismic Design Categories D₁, D₂, and D₃.
 e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₃ only.

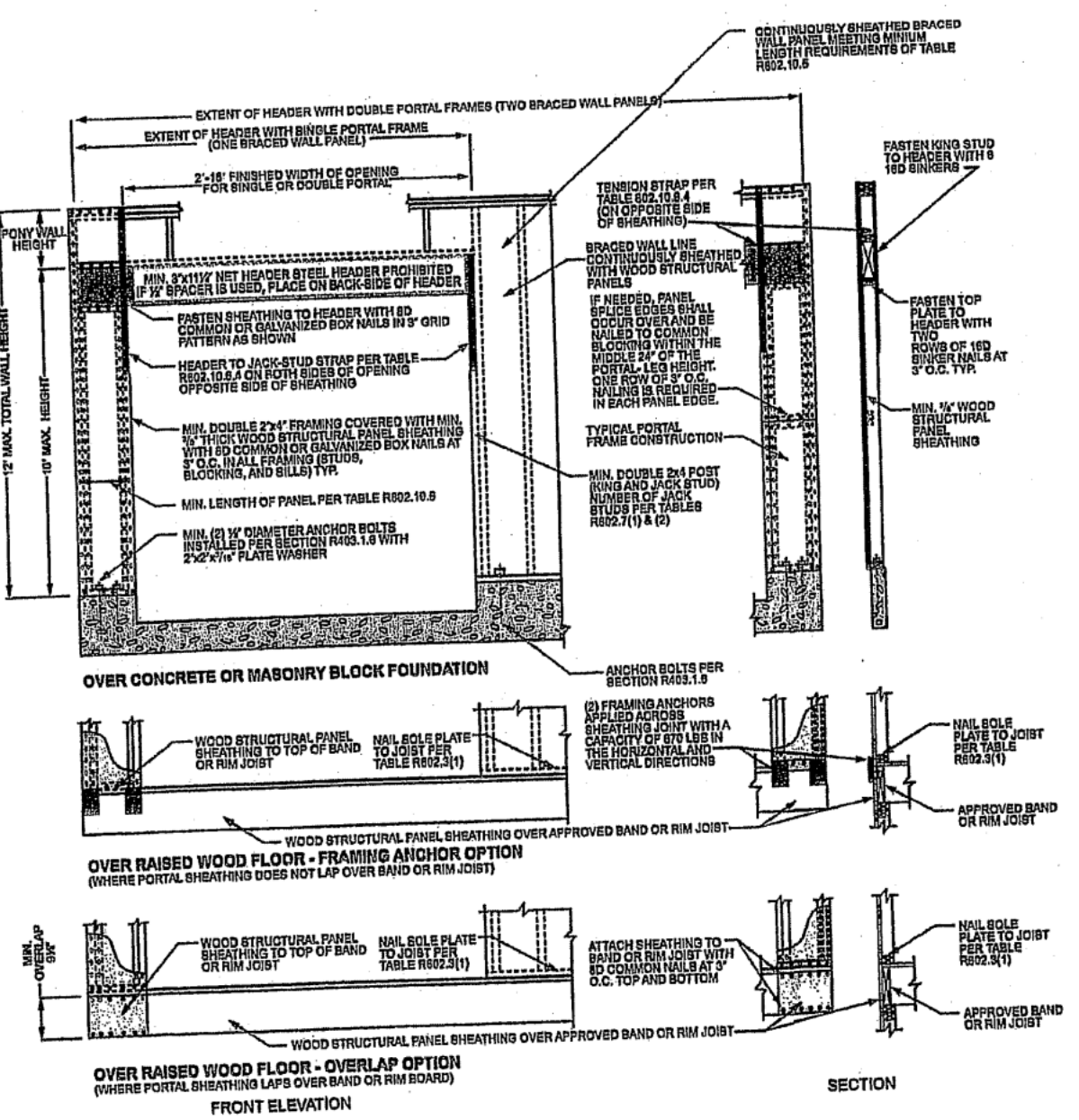


FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



Review and Approval
Structural Only

David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116

BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

NICK ZVACEK HOMES
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST.
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
6-27-24

PLAN NO.

4247

SHEET NO.

6 OF 6