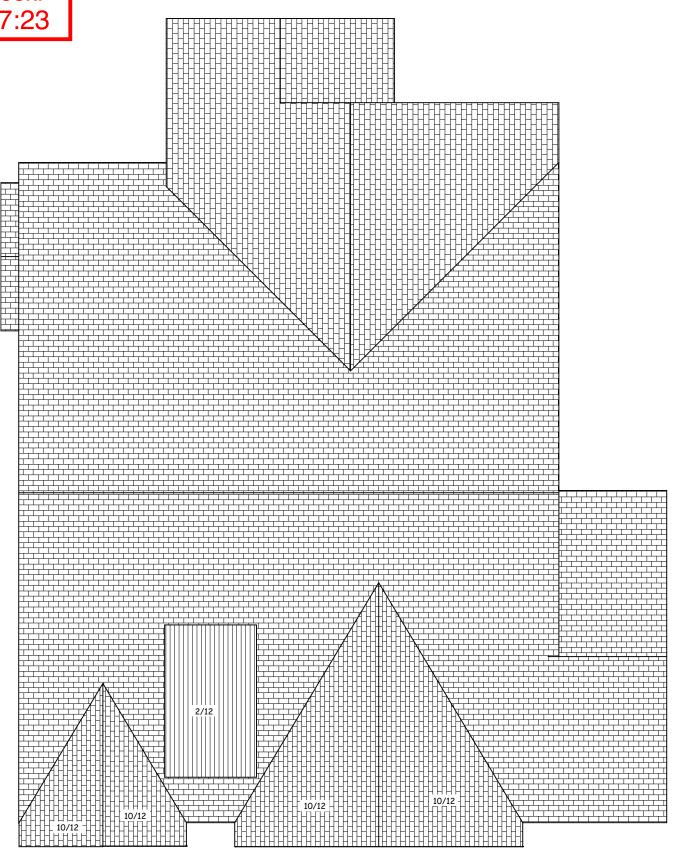
3671

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1 OF 5



ROOF PLAN

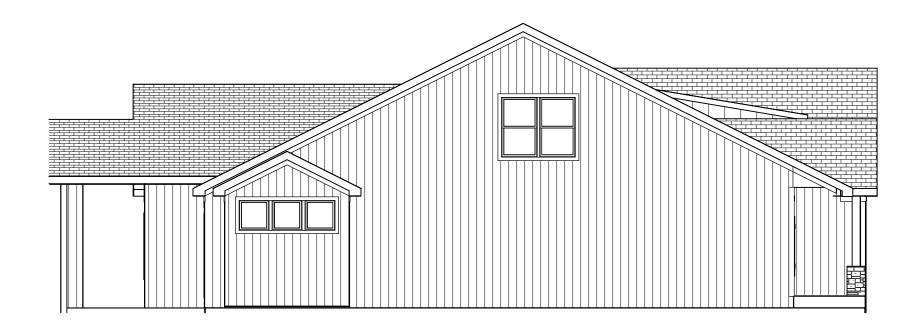
1/8 = 1-0

ROOF PITCHES 6/12 U.N.O.

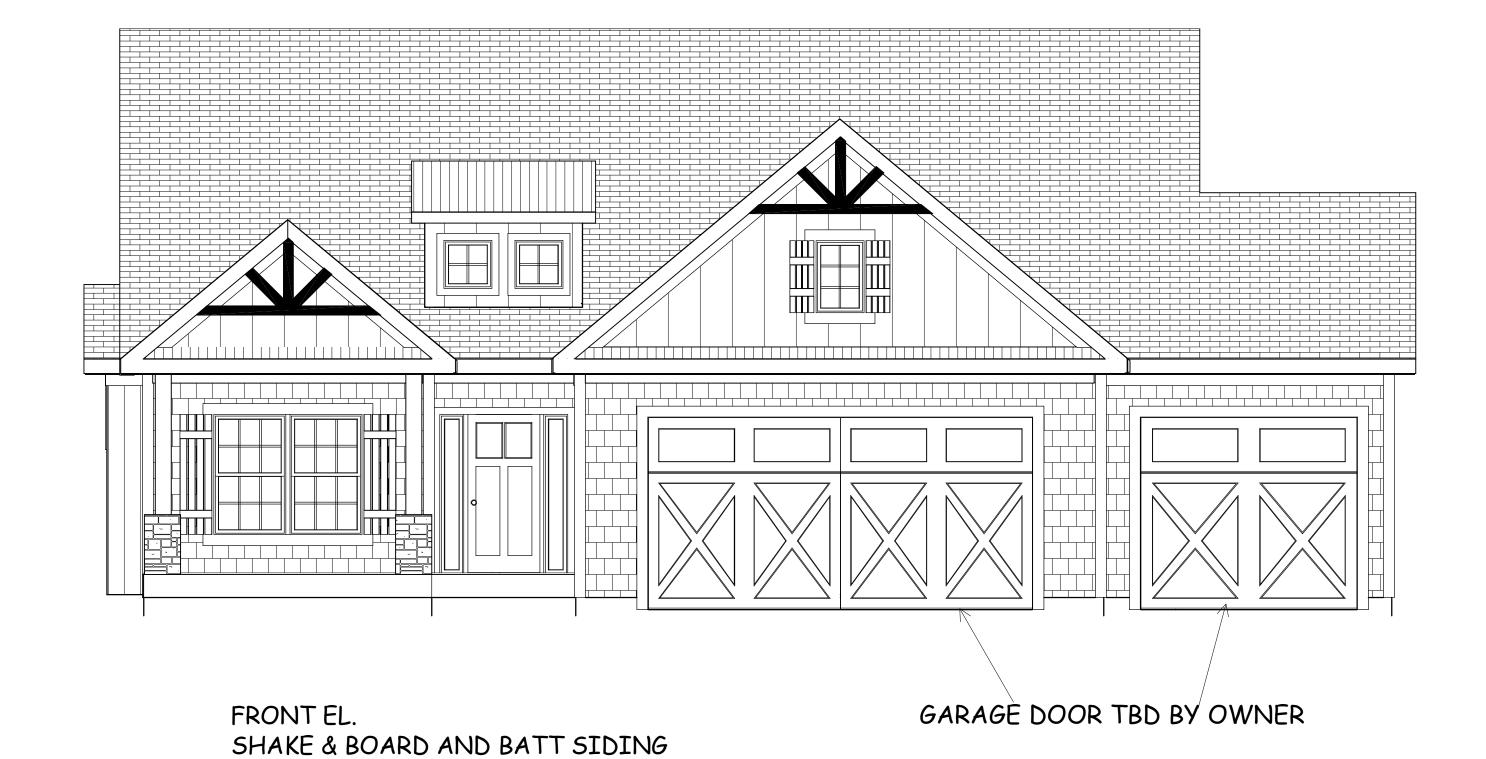
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.

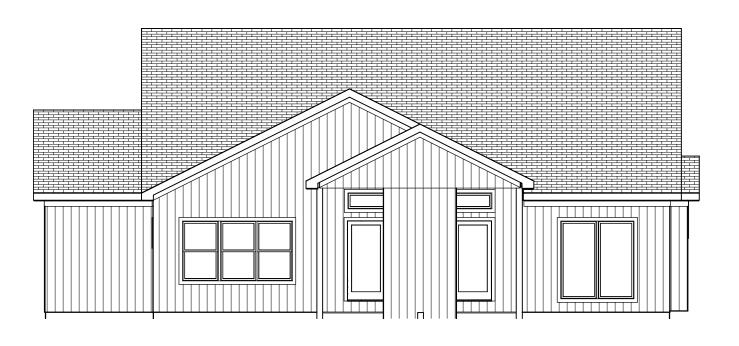
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.

SOFFITS 12" TYP.

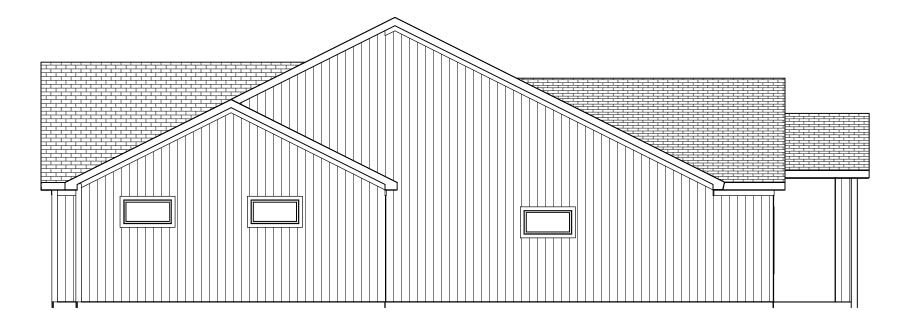


LEFT EL. 1/8 = 1-0





REAR EL. 1/8 = 1-0



RIGHT EL. 1/8 = 1-0

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212 NE Circle Dr.
Kansas City, MO 64116



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3 SIDES LP PANEL SIDING

NO BASEMENT FINISH

FINISHED SPACE - 0 sqft

UNFINISHED SPACE - 1,434 sqft

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DAVID E. MEZGER

PE-2018009531

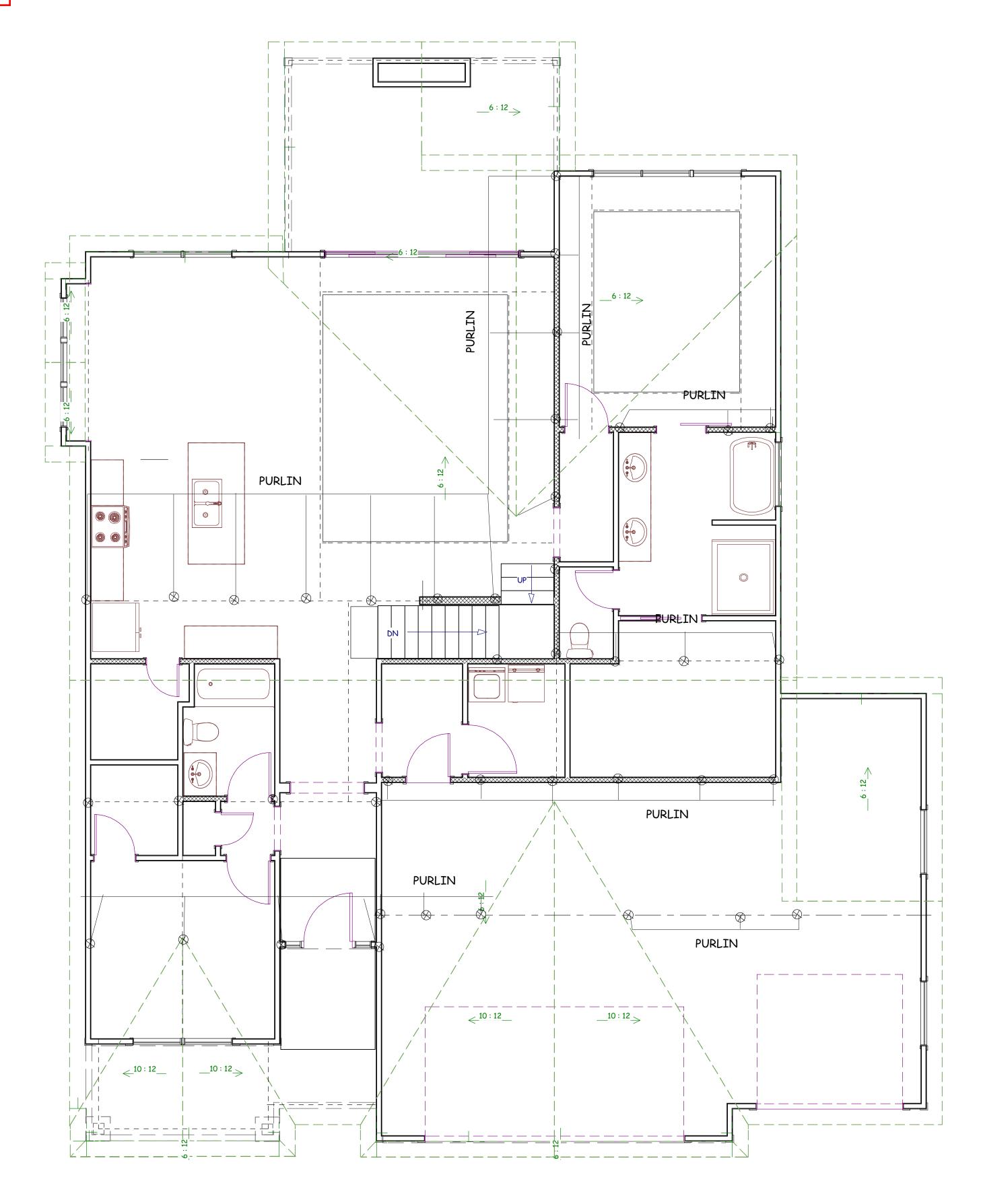
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2 RELEASE FOR CONSTRUCTION AS NO DE DE VELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/09/2024 3:23:08

16" PIERS MIN. 36" BELOW GRADE WITH ABA66Z POST BASE AND 6 X 6 POST 9-0 WALLS TYP. COMBUSTION AIR CALCULATIONS INPUT CAPACITY
FURNACE = 100,000 BTU/ HR
H.W. HEATER = 50,000 BTU/ HR
TOTAL = 150,000 BTU/HR 50 CUBIC VOLUME REQ. PER 1,000 BTU/ HR VOLUME IN UNFINISHED 393 X 9 = 3'537 CU. FT. SINCE UNFINISHED AREA DOES NOT PROVIDE SUFFICIANT VOLUME FOR NORMAL INFILTRATION, INSTALL 2 METAL LOUVER ⁻⁻ 13'-10 1/4"⁻⁻ VENTS IN WALL BETWEEN FAMILY ROOM AND FURNACE ROOM. ONE VENT SHALL BE @ SHOP MIN. WITHIN 12" OF THE TOP OF THE WALL, AND ONE VENT SHALL COMMENCE WITHIN AND ONE VENT SHALL COMMENCE WITHIN
12" OF THE BOTTOM OF THE WALL. EACH
VENT SHALL PROVIDE A MINIMUM FREE
AREA OR 150 SQUARE INCHES (1" PER 1,000
BTU/HR) SINCE METAL LOUVERS HAVE 75%
FREE AREA, MINIMUM LOUVER SIZE
REQUIRED = 150/75 = 200 SQ. IN. REC ROOM W 8 X 35 W 8 X 35 3-0 X 3-0 X 12" PIER PAD WITH 6 NO 4 EW AND 3" SCH 40 COL. TYP. 3-2 X 10 W 8 X 15 W 8 X 15 BEDROOM 4 3-0 X 3-0 X 12" PIER PAD WITH 6 NO 4 EW AND 3" SCH 40 COL. TYP. 9-0 WALLS TYP. W 8 X 24 W 8 X 24 STORAGE 393 SF 9-0 WALLS TYP. 3-0 X 3-0 X 12" PIER PAD WITH 6 NO 4 EW

FOUNDATION PLAN 1141 SF FINISHED 393 SF UNFINISHED



MAIN FLOOR 1756 SF



2-2 X 12

FIREPLACE WITH ENTERTAINMENT CONSUL ABOVE

_2 X 6 DF NO 2 @ 16" OC CEILING JOISTS

12014FX 12068

2-11-7/8 LVL

COVERED PATIO 10-1 CEILING

2-2 X 12

GREAT ROOM 10-1 CEILING

11-1 IN TRAY AREA

⁻ 17'-3 1/2"

DROP ZONE

ARCHED OPENING __ _ _ _ _ __4680 _ _ _

3068

2-2 X 10

204 SF

HEADER 8-0

9-1 WALLS TYP.

___3066FX___3066FX__

DINING

KITCHEN

BEDROOM 2

COVERED PORCH

VAULTED

PANTRY

9-1 WALLS TYP.

BWL

CS-WSP

2-2 X 12 FLUSH WSP (6 DF NO 2 @ ILING JOISTS ANGLE HATCHED WALLS ARE INTERIOR LOAD BEARING WALLS TYP. GARAGE 772 SF _2-2 X 12 2-11-7/8 LVL_ SCALE

1/4" = 1-0

DATE

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CS-WSP 3050SH 3050SH CS-WSP

_ _ _ _ 2-2 X 12_ _ _ _ _ _

MASTER

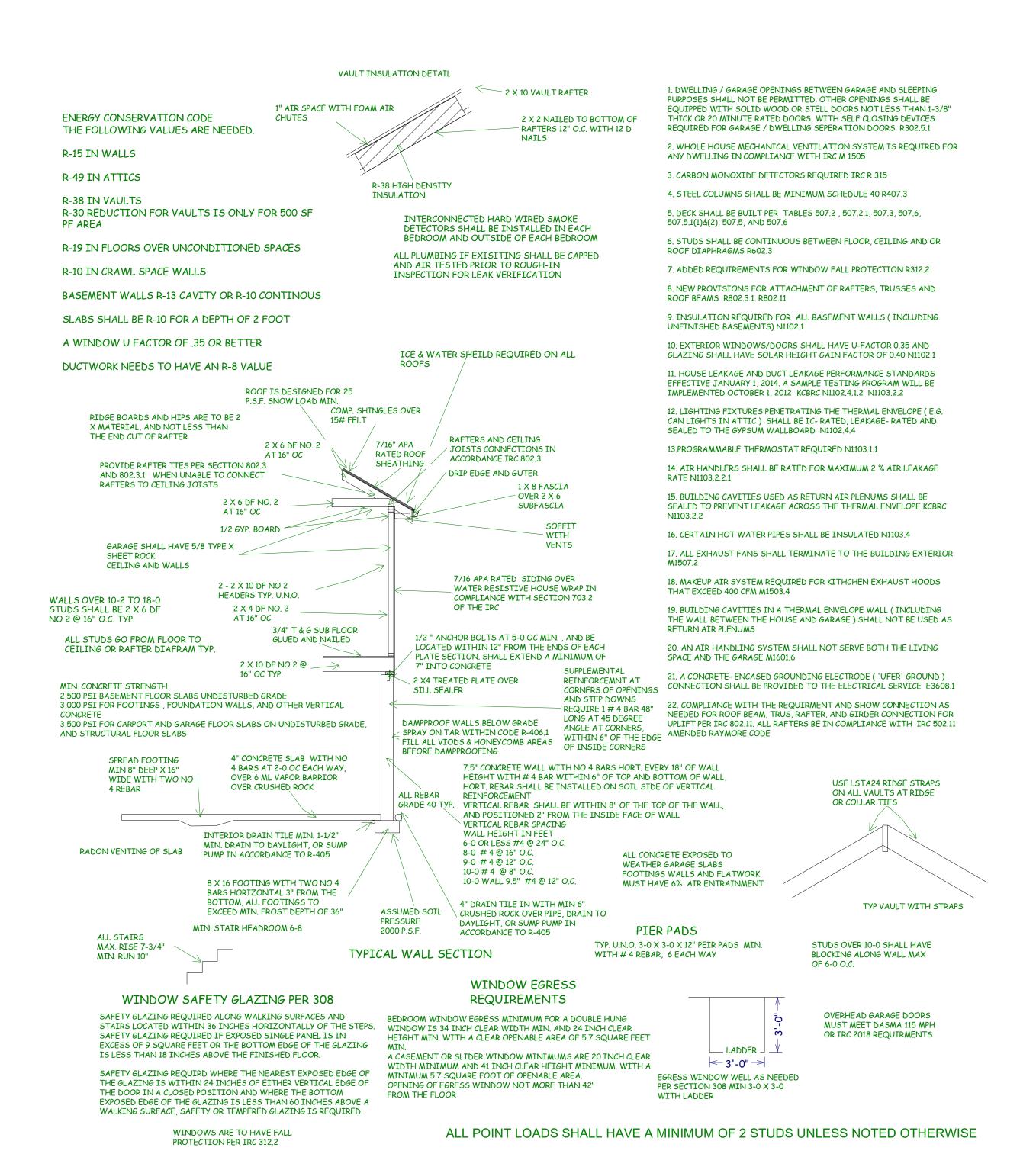
BEDROOM

⁻⁻ 13'-10 1/4"

2-2 X 12

8 BML

PURLIN PLAN



- 29'-3 1/2" _2 X 6 WALL _ 9-1 CEILING 9-1 CEILING BEDROOM 3 ⁻ 11'-10 1/4"⁻ CLOSET ⁻⁻⁻ 6'-5 1/4" ⁻ 29'-3 1/2"⁻⁻ SECOND FLOOR 287 SF DORMER

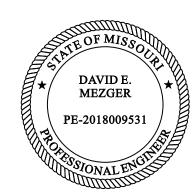
2020FX 2020FX

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FRONT OF BEDROOM 2

BACK OF HOUSE

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



BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND

> NOELLE PLAN LOT 49 HOOK FARMS 2040 WHEATFIELD FARA LEE SUMMIT MO

SCALE 1/4" = 1-0

DATE

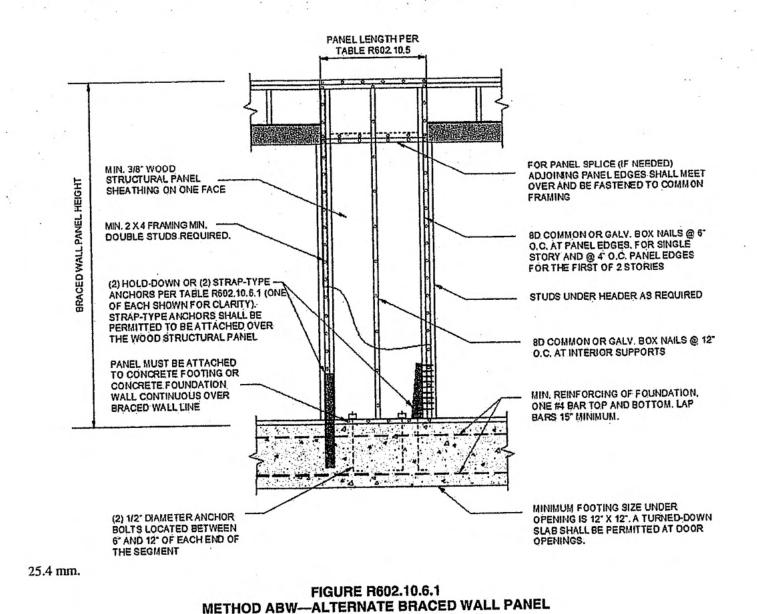
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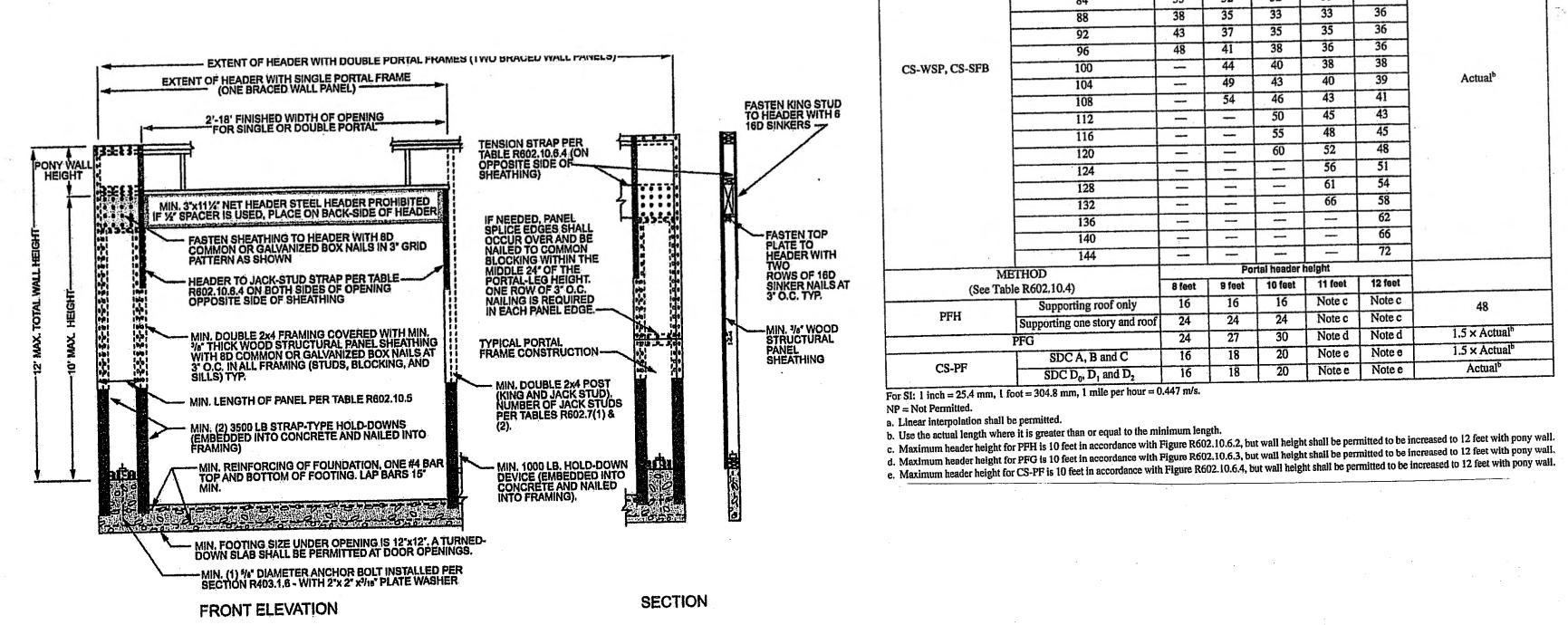
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4 mm, 1 foot = 304.8 mm.

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

			TABLE R602.10 BRACING METHO	.4 DDS		
				CONNECTION CRITERIA*		
ME	THODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing	
	LIB	1 × 4 wood or approved metal straps			Wood: per stud and top and bottom plates	
	Let-in-bracing	at 45° to 60° angles for maximum 16" stud spacing		Metal strap: per manufacturer	Metal: per manufacturer	
	DWB Diagonal wood boards	³ / ₄ " (1" nominal) for maximum 24" stud spacing		2-8d ($2^{1}/_{2}$ " long × 0.113" dia.) nails or 2 - $1^{3}/_{4}$ " long staples	Per stud	
	WSP Wood			Exterior sheathing per Table R602.3(3)	6" edges 12" field	
Methods	structural panel (See Section R604)	³/g"		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener	
ethods	BV-WSP Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/ ₁₆ "	See Figure R602.10.6.5	8d common (2 ¹ / ₂ " × 0.131) nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts	
Intermittent Bracing Methods	SFB Structural fiberboard sheathing	1/2" or 25/32" for maximum 16" stud spacing		1 ¹ / ₂ " long × 0.12" dia. (for ¹ / ₂ " thick sheathing) 1 ³ / ₄ " long × 0.12" dia. (for ²⁵ / ₃₂ " thick sheathing) galvanized roofing nails	3" edges 6" field	
mitten				Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7" edges (including top	
Inter	GB Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations	and bottom plates) 7"	
	PBS Particleboard sheathing (See Section R605)	³ / ₈ " or ¹ / ₂ " for maximum 16" stud spacing		For ³ / ₈ ", 6d common (2" long × 0.113" dia.) nails For ¹ / ₂ ", 8d common (2 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field	
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 ¹ / ₂ " long, 11 gage, ⁷ / ₁₆ " dia. head nails or ⁷ / ₈ " long, 16 gage staples	members	
	HPS Hardboard panel siding	7/16" for maximum 16' stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 11/2" 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	

METHOD (See Table R602.10.4)			MINI		CONTRIBUTING LENGTH			
		8 feet	9 feet	10 feet	11 feet	12 feet		
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP		48	48	48	53	58	Actual ^b	
GB LIB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual	
		55	62	69	NP	NP	Actual ⁶	
ADW	SDC A, B and C, ultimate design wind speed < 140 mph		32	34	38	42	48	
ABW	SDC D_0 , D_1 and D_2 , ultimate design wind speed < 140 mph	32	32	34	NP	NP		
	CS-G	24	27	30	33	36	Actual ^b	
	Adjacent clear opening height (inches)							
	≤ 64	24	27	30	33	36		
	68	26	27	30	33	36	Actual ^b	
	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		
CS-WSP, CS-SFB	100		44	40	38	38		
	104		49	43	40	39		
	108	_	54	46	43	41		
	112		T -	50	45	43		
	116			55	48	45		
	120	_	_	60	52	48		
	124	_	_	_	56	51		
	128		_		61	54	_	
	132		_		66	58		
	136	_				62		
	140	-				66		
	144					72		
METHOD		Portal header height					-	
(See Table R602,10.4)		8 feet	9 feet	10 feet	11 feet Note c	Note c		
PFH	Supporting roof only	16	16	16	1	Note c	48	
L 1. 1 1	Supporting one story and roof		24	24	Note c	Note d		
	PFG	24 16	27	30	Note d	Note e		
CS-PF	SDC A, B and C		18	20	Note e	Note e		
r SI: 1 inch = 25.4 mm,	$SDC D_0, D_1 $ and D_2	16	18	20	Note e	TAULE 6	Actual	

BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A

a. Linear interpolation shall be permitted.

b. Use the actual length where it is greater than or equal to the minimum length.

			BRACING METHOD	CONNECTION	CRITERIA'	
METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	Fastenere	Spacing	
Intermittent Bracing Methods	PFH Portal frame with hold-downs	3/8"		See Section R602.10.6.2	See Section R602.10.6.2	
	PFG Portal frame at garage	⁷ / ₁₆ "		See Section R602.10.6.3	See Section R602.10.6.3	
	CS-WSP	3/8"		Exterior sheathing per Table R602.3(3)	6" edges 12" field	
s	Continuously sheathed wood structural panel			Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener	
Continuous Sheathing Methods	CS-G ^{b,c} Continuously sheathed wood structural panel adjacent to garage openings	3/8"		See Method CS-WSP	See Method CS-WSP	
nuous Sh	CS-PF Continuously sheathed portal frame	7/16"		See Section R602.10.6.4	See Section R602,10.6.4	
Conti	CS-SFB ^d Continuously sheathed structural fiberboard	1/2" or ²⁵ / ₃₂ " for maximum 16" stud spacing		$1\frac{1}{2}$ " long × 0.12" dia. (for $\frac{1}{2}$ " thick sheathing) $1\frac{3}{4}$ " long × 0.12" dia. (for $\frac{25}{32}$ " thick sheathing) galvanized roofing nails	3" edges 6" field	

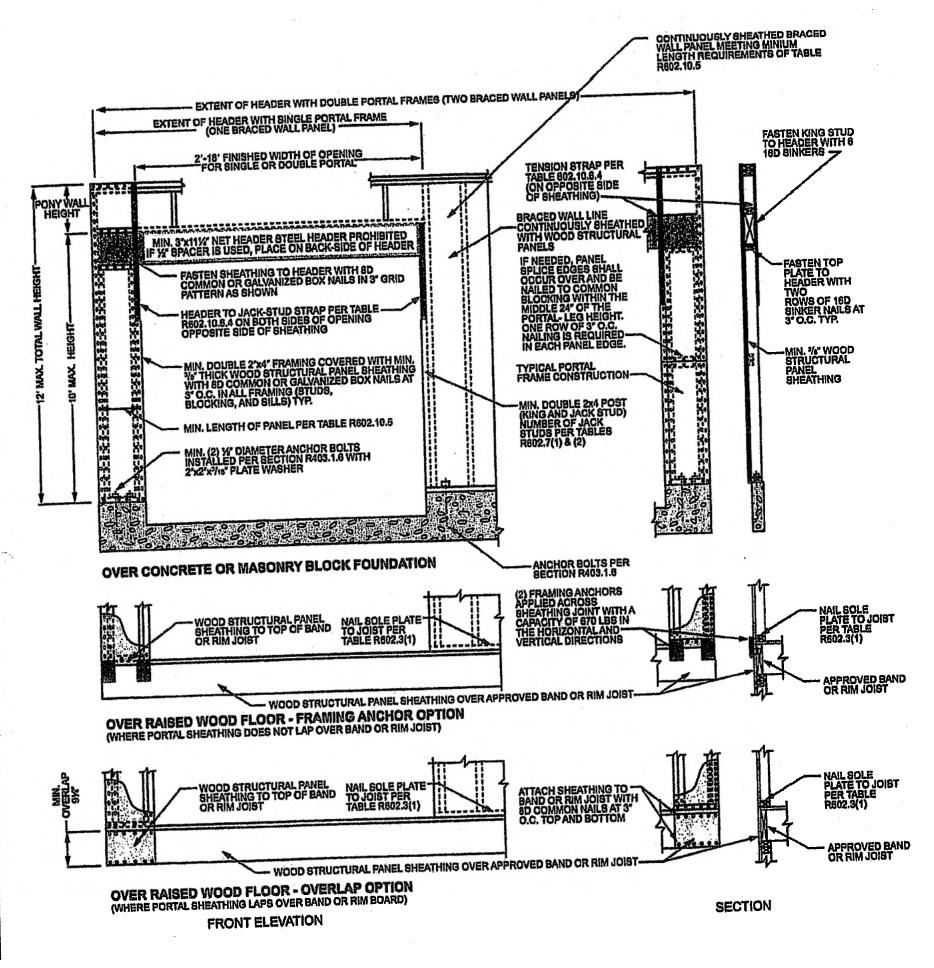
For SI; 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m², 1 mile per hour = 0.447 m/s.

a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₀, D₁ and D₂.

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 D₀, D₁ and D₂ toof 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 R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.

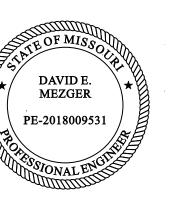
d. Method CS-SFB does not apply in Seismic Design Categories D_0 , D_1 and D_2 . e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D_0 through D_2 only.



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

FIGURE R802.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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N ACCORDANCE WIT FERNATIONAL NTIAL CODE AND ODES.

SCALE 1/4" = 1-0

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5 RECEASE FOR CONSTRUCTION
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