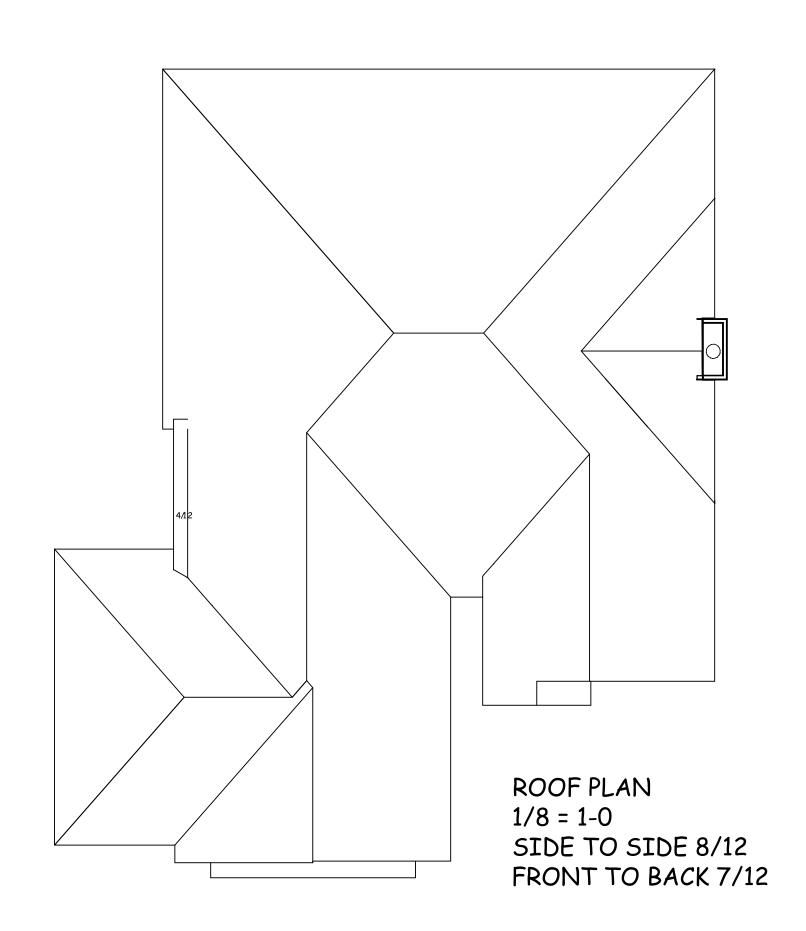
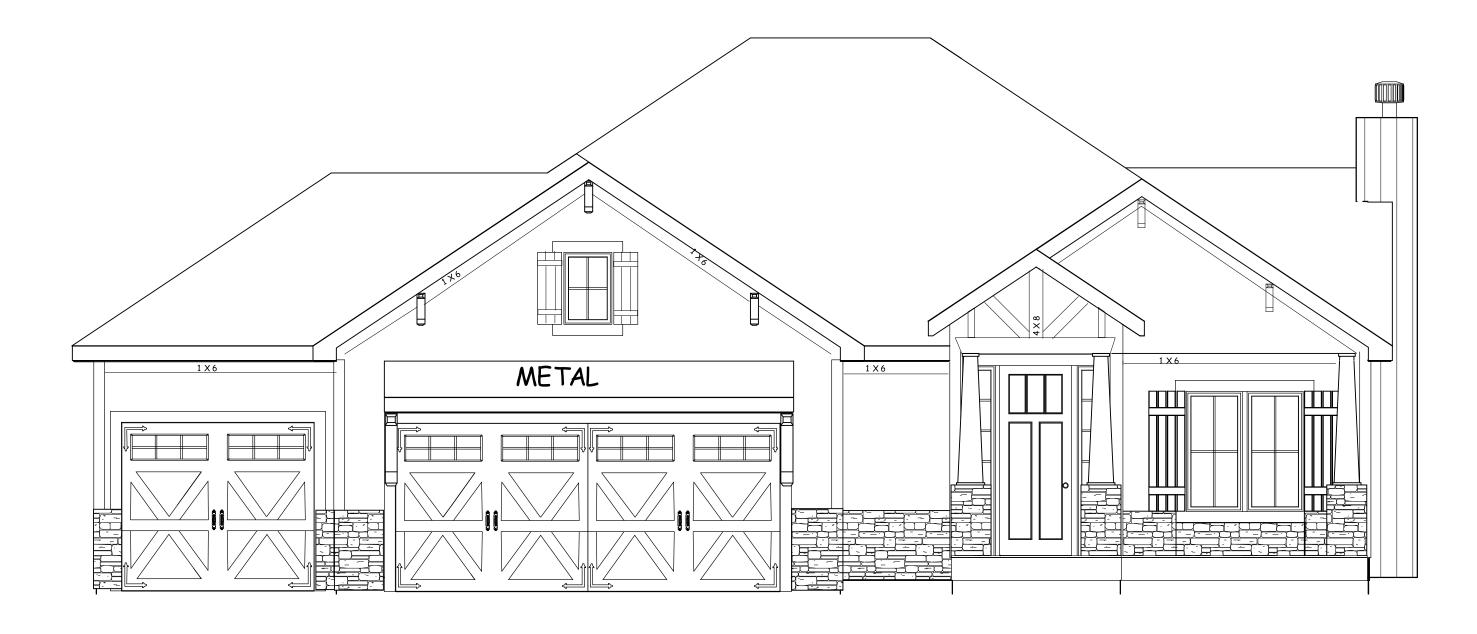
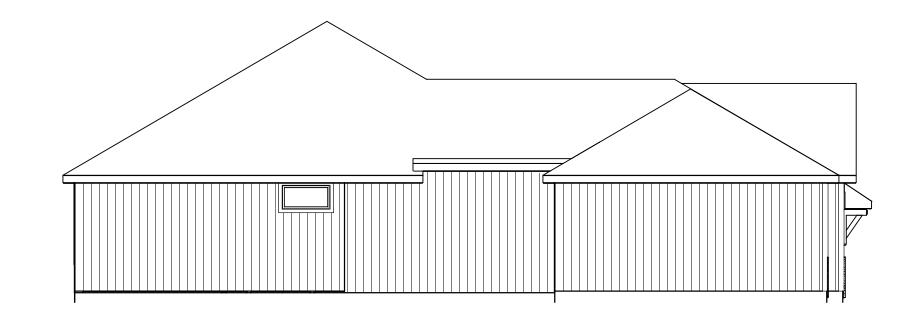
SHEET NO.

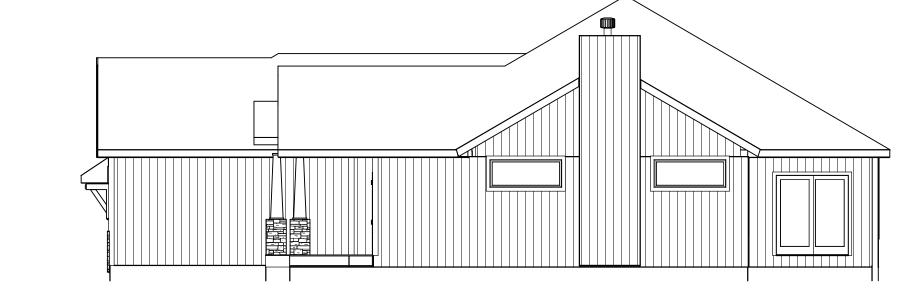


RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP. HIPS AND RIDGERS 2 X 8 DF NO 2 TYP.



FRONT EL. STUCCO & STONE

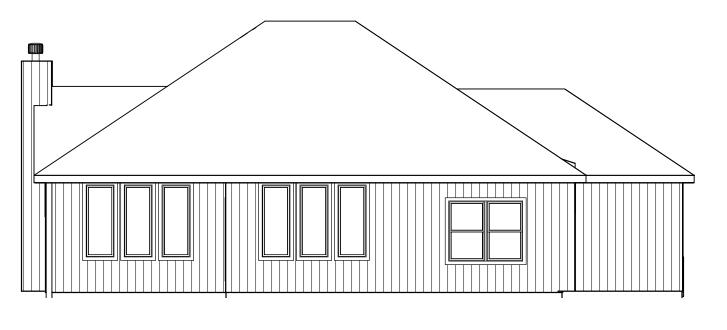




LEFT EL. 1/8 = 1-0

RIGHT EL. 1/8 = 1-0





REAR EL. 1/8 = 1-0

COMORTO COMORE COMORTO COMORTO COMORTO COMORTO COMORTO COMORTO COMORTO COMORTO

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

05/29/2020



PLAN NO. 3078

SHEET NO.

SCALE

1/4" = 1-0

DATE

5-18-20

2 OF 5

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND

> LOT 92 MONTICELL 4701 NE FREEHOLI LEE SUMMIT MO

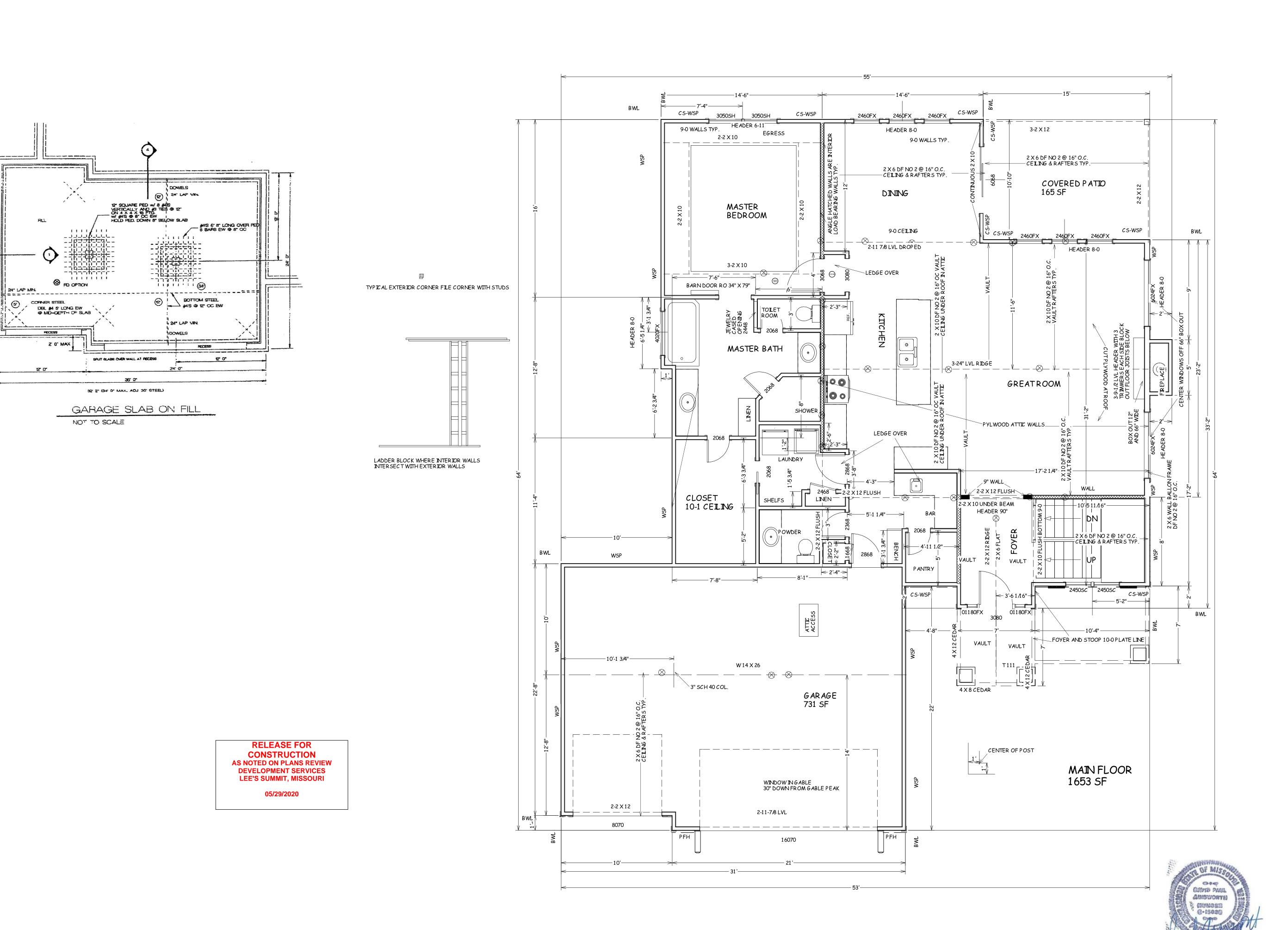
TRUMARK HOMES KYLE II

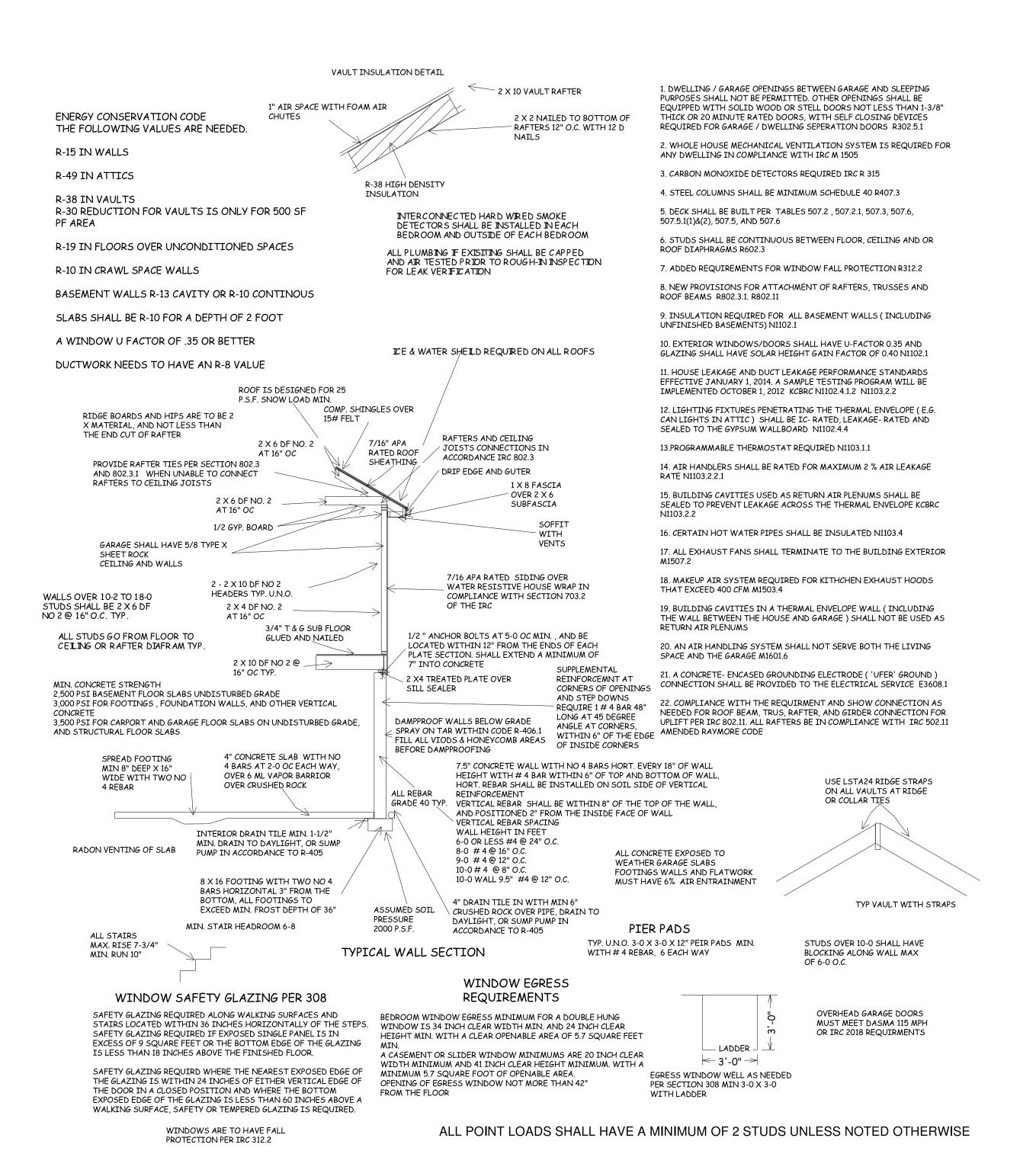
PLAN NO.

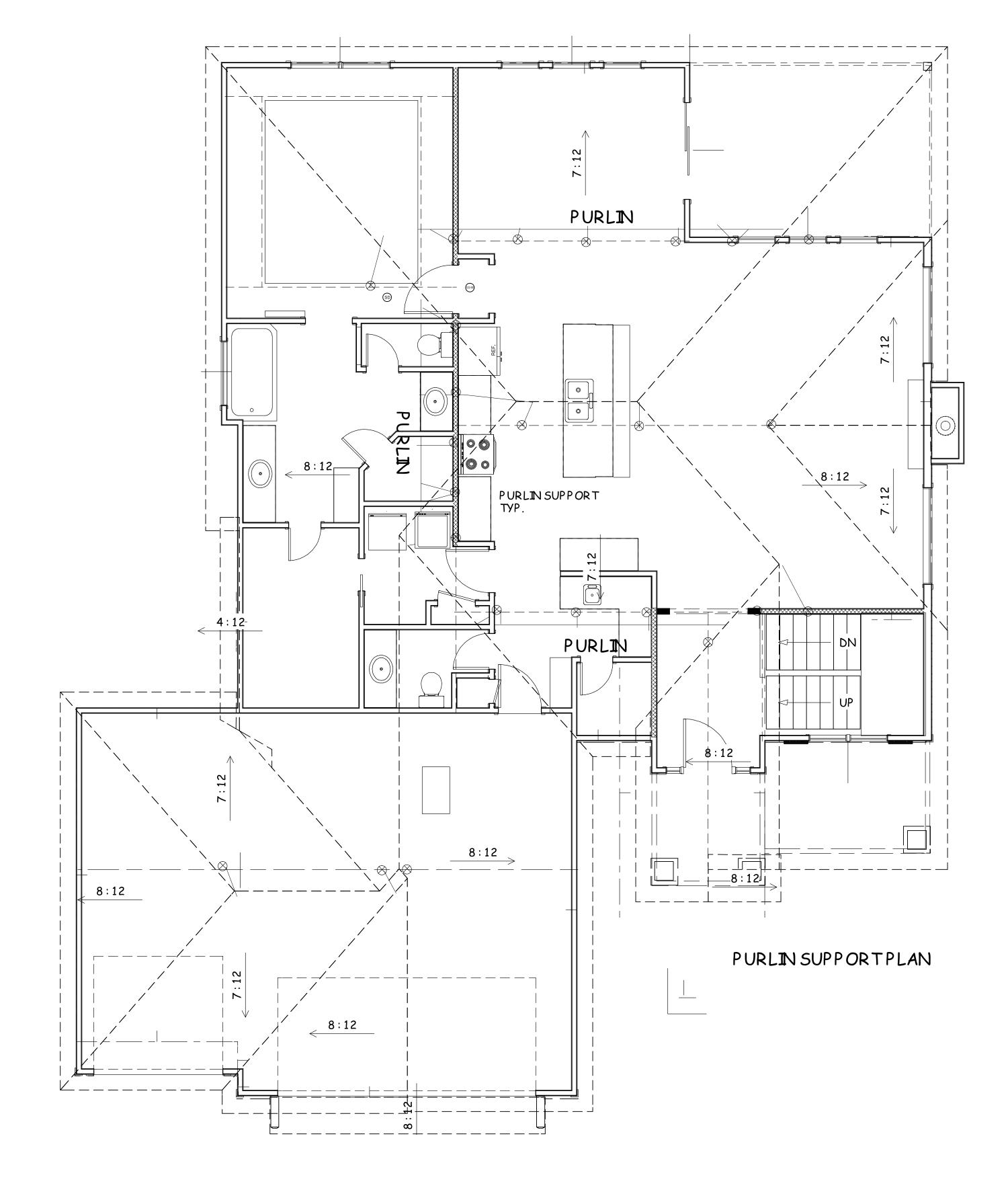
3078

SHEET NO.

3 OF 5







RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

05/29/2020



D IN ACCORDANCE WITH INTERNATIONAL IDENTIAL CODE AND

T 92 MONTICELLO 1 NE FREEHOLD D SUMMIT MO

TRUMARK HOME KYLE II

SCALE 1/4" = 1-0

DATE 5-18-20

PLAN NO. 3078

SHEET NO.

4 OF 5

PLAN NO.

3078

SHEET NO.

5 OF 5

TABLE R602.10.4 BRACING METHODS										
	 -			CONNECTION CRITERIA"						
METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	Fasteners	Spacing					
	LIB	1 × 4 wood or approved metal straps			Wood: per stud and top and bottom plates					
Intermittent Bracing Methods	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 $(2^{1}/_{2}" \log \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \text{ long staples}$	Per stud					
	WSP Wood			Exterior sheathing per Table R602.3(3)	6" edges 12" field					
	structural panel (See Section R604)	³/ ₈ "		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener					
	BV-WSP ^s Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/ ₁₆ "	See Figure R602.10.6.5	8d common $(2^{1}/_{2}" \times 0.131)$ nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts					
	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					
	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 plates) 7" field					
	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	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 11/2" penetration into studs	4" edges 8" field					
	ABW Alternate	3/8"		See Section R602.10.6.1	See Section R602.10.6.1					

METHOD (See Table R602.10.4)			MIN	CONTRIBUTING LENGTH			
				Wall Height		(inches)	
-		8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, P	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b
	GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
	LIB	55	62	69	NP	NP	Actual ⁶
	SDC A, B and C, ultimate design wind speed < 140 mph	28	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	
	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	Actual ^b
	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			50	45	43	
	116			55	48	45	
	120	1	_	60	52	48	
	124				56	51	_
	128				61	54	_
2	132				66	58	4
	136		<u> </u>			62	
	140	=				66	_
	144				<u> </u>	72	
METHOD		0.15-5		ortal header 10 feet		12 feet	-
(See T	able R602,10.4)	8 feet	9 feet 16	10 1661	Note c	Note c	-
PFH	Supporting roof only	16		24	Note c		48
	Supporting one story and roof		24	30	Note d		
	PFG	24	27		Note e		
CS-PF	SDC A, B and C SDC D ₀ , D ₁ and D ₂	16 16	18 18	20 20	Note e		

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

				BRACING METHODS						
Г	·	T			CONNECTION CRITERIA*					
ļ	MET	HODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners					
		LIB [,	1 × 4 wood or approved metal straps at 45° to 60° angles for			Woo top				
		Let-in-bracing	maximum 16" stud spacing		Metal strap: per manufacturer	p				
		DWB Diagonal wood boards	³ / ₄ " (1" nominal) for maximum 24" stud spacing		2-8d $(2^{1}/_{2}" \text{ long} \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \text{ long staples}$					
		WSP Wood	2		Exterior sheathing per Table R602.3(3)	6				
		structural panel (See Section R604)	³ / ₈ "		Interior sheathing per Table R602.3(1) or R602.3(2)	V				
	ethods	BV-WSP* Wood structural panels with stone or masonry vencer (See Section R602.10.6.5)	7/ ₁₆ "	See Figure R602.10.6.5	8d common (2 ¹ / ₂ " × 0.131) nails	4" a 12" sup wal				
	Intermittent Bracing Methods	SFB Structural fiberboard sheathing	"/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					
	mitten	2	,		Nails or screws per Table R602.3(1) for exterior locations	For pared				
	Inter	GB Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations	and				
15		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					
		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	6" m				
		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					

	MINIMUM LEN			NUM LENG			
METHOD (See Table R602.10.4)		· · · · · · · · · · · · · · · · · · ·	·	(inches) Vall Height	CONTRIBUTING LENGTH (Inches)		
(288.190	10 11002.10(1)	8 feet		10 feet	11 feet	12 feet	
DWD WCD CED D	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b
	GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
	LIB	55	62	69	NP	NP	Actual ⁶
	SDC A, B and C, ultimate design wind speed < 140 mph	28	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	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	Actual ^b
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36 38	
CS-WSP, CS-SFB	100		44	40	38	39	
	104		49	43	40 43	41	Actual
	108		54	46	45	43	-
	112			50	48	45	 .
	116			55 60	52	48	-
	120			00	56	51	
	124		<u> </u>		61	54	
	128		=		66	58	
	132					62	-
	136 140			 	 	66	-
			 			72	-
144		Portal header height					
	METHOD able R602,10.4)	8 feet	9 feet	10 feet	11 feet	12 feet	
(See 1)	PFH Supporting roof only Supporting one story and roo		16	16	Note c	Note o	48
PFH			24	24	Note c	Note o	·
	PFG	24	27	30	Note d	Note o	
s 20.70	SDC A, B and C	16	18	20	Note e	Note	
CS-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note	e Actual ^b

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 PFG 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.

braced wall

EXTENT OF HEADER WITH DOUBLE FORTAL FRAMES (TWO BRACED WALL PANE) MIN. 3"X111/" NET HEADER STEEL HEADER PROHISITED " 'X" SPACER IS USED, PLACE ON BACK-SIDE OF HEADE OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST) OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD) FRONT ELEVATION

TABLE R602.10.4—continued BRACING METHODS

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 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 R602.7(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 D₀, D₁ and D₂.

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₀ through D₂ only.

HINIMUM THICKNESS

1/2" or ²⁵/32" for maximum 16"

stud spacing

METHODS, MATERIAL

PFH

Portal frame with

hold-downs

Portal frame at garage

wood structural pane

wood structural pane

adjacent to garage

CS-PF

portal frame

CS-SFB^a

CONNECTION CRITERIA'

See Section R602.10.6.2

See Section R602.10.6.3

Exterior sheathing per Table R602.3(3)

Interior sheathing per Table R602.3(1) or R602.3(2)

See Method CS-WSP

See Section R602.10.6.4

(for $\frac{1}{2}$ " thick sheathing) $1^{3}/_{4}$ " long × 0.12" dia. (for $\frac{25}{32}$ " thick sheathing) galvanized roofing nails

Specing

See Section R602.10.6.2

See Section R602.10.6.3

6" edges 12" field

Varies by fastener

See Method CS-WSP

See Section R602.10.6.4

3" edges 6" field

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

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

05/29/2020

SECTION

	 FIGURE R60 METHOD ABW—ALTERNATE	2.10.6.1 BRACED WALL PANEL	
MAX. HEIGH!	MIN. DOUBLE 2x4 FRAMING COVERED WITH MIN.	TENSION STRAP PER TABLE R602, 10.6.4 (ON OPPOSITE SIDE OF SHEATHING) IF NEEDED, PANEL SPLICE EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING WITHIN THE MIDDLE 24" OF THE PORTAL-LEG HEIGHT. ONE ROW OF 3" O.G. NAILING IS REQUIRED IN EACH PANEL EDGE TYPICAL PORTAL FRAME CONSTRUCTION (KING AND JACK STUD) NUMBER OF JACK STUDS PER TABLES R602.7(1) & (2).	FASTEN KING STUD TO HEADER WITH 8 16D SINKERS FASTEN TOP PLATE TO HEADER WITH TWO ROWS OF 16D SINKER NAILS AT 3' O.C. TYP. MIN. 1/6' WOOD STRUCTURAL PANEL SHEATHING

MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE

12.5

15.0

18.0

23.5

29.0

34.5

27.0

43.0

12.5

18.0

23.5

29.0

PANEL LENGTH PER TABLE R602 10.5

SHEATHING ON ONE FACE

MIN. 2 X 4 FRAMING MIN.

(2) HOLD-DOWN OR (2) STRAP-TYPE ANCHORS PER TABLE R602.10.6.1 (ONE) OF EACH SHOWN FOR CLARITY).

STRAP-TYPE ANCHORS SHALL BE PERMITTED TO BE ATTACHED OVER THE WOOD STRUCTURAL PANEL

PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION -WALL CONTINUOUS OVER

(2) 1/2" DIAMETER ANCHOR BOLT'S LOCATED BETWEEN 6" AND 12" OF EACH END OF THE SEGMENT

25.4 mm.

BRACED WALL LINE

DOUBLE STUDS REQUIRED.

Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB

7.0

9.0

10.5

10.5

16.5

20.0

FOR PANEL SPLICE (IF NEEDED) ADJOINING PANEL EDGES SHALL MEET OVER AND BE FASTENED TO COMMON

8D COMMON OR GALV. BOX NAILS @ 6" O.C. AT PANEL EDGES, FOR SINGLE

STUDS UNDER HEADER AS REQUIRED

MINIMUM FOOTING SIZE UNDER OPENING IS 12' X 12'. A TURNED-DOWN SLAB SHALL BE PERMITTED AT DOOR

SECTION

STORY AND @ 4" O.C. PANEL EDGES FOR THE FIRST OF 2 STORIES

O.C. AT INTERIOR SUPPORTS

4.5

6.0

7.5

9.0

11.5

14.0

17.0

9.0

13.0

17.0 21.0

25.0

4 mm, 1 foot = 304.8 mm.

Ultimate Design Wind Speed (mph)

raced Wall Lin

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

-MIN. (1) %" DIAMETER ANCHOR BOLT INSTALLED PER SECTION R403.1.6 - WITH 2"x 2" x1/16" PLATE WASHER

FRONT ELEVATION