

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

NICK ZVACEK HOMES ANDERSON II LOT 109 MONTICELLO 4705 NE FREEHOLD DR LEE SUMMIT MO

*SCALE* 1/4" = 1-0

DATE 5-13-21

PLAN NO. 3531

·

SHEET NO.

2 OF 6
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

JOSEPH A. TOWNS P.E.
MO. LIC E 22017
PROFESSIONAL SEAL
APPLIES TO STRUCTURAL
ELEMENTS ONLY

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

NICK ZVACEK HOMES ANDERSON II LOT 109 MONTICELLO 4705 NE FREEHOLD DR LEE SUMMIT MO

*SCALE* 1/4" = 1-0

DATE 9-30-21

PLAN NO. 3531

SHEET NO.

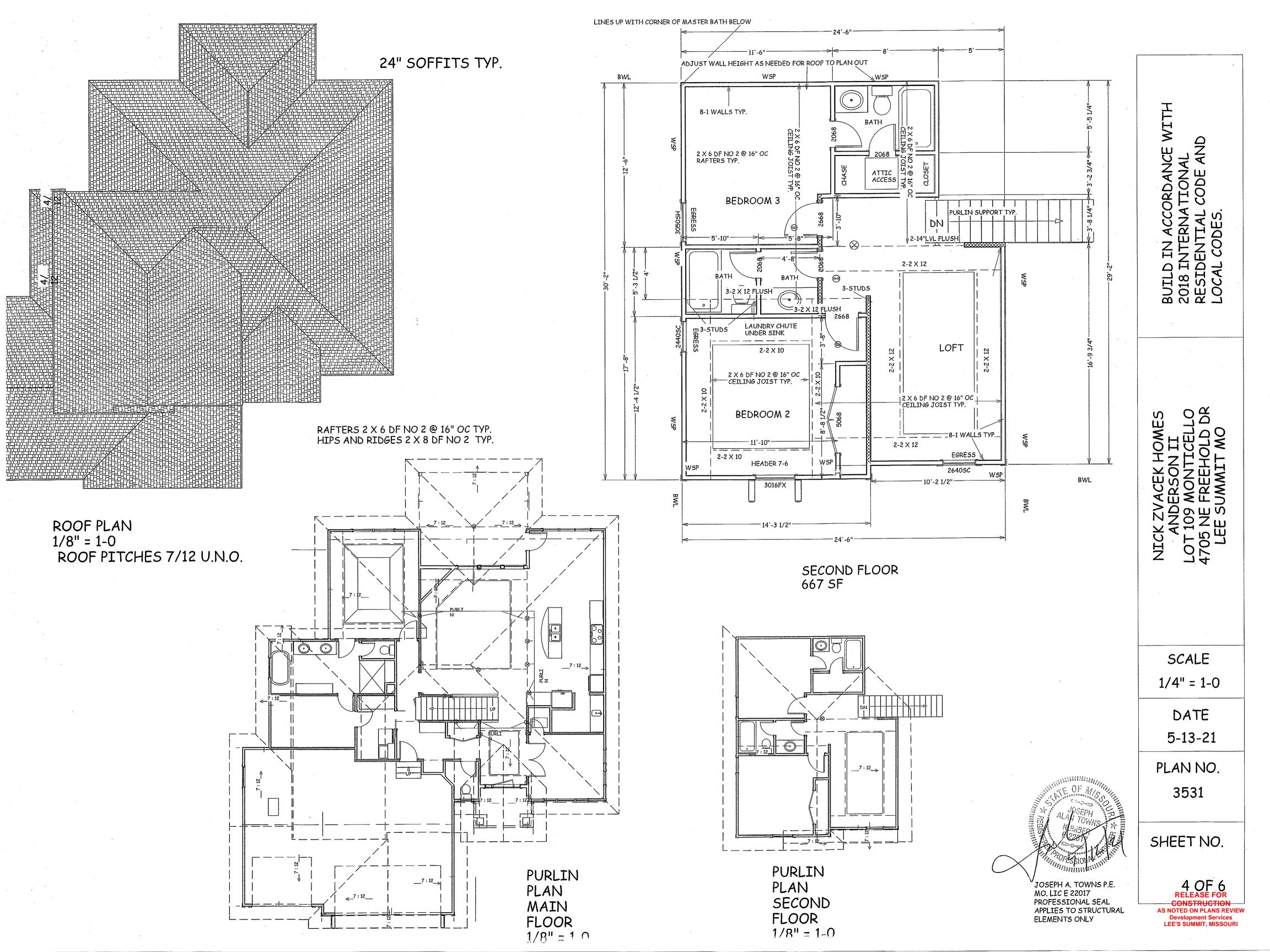
3 OF 6

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

JOSEPH A. TOWNS P.E.
MO. LIC E 22017
PROFESSIONAL SEAL
APPLIES TO STRUCTURAL
ELEMENTS ONLY



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 FROM THE FLOOR

D IN ACCORDANCE WIT INTERNATIONAL

018 : ESI

 $\alpha$ 

NICK ZVACEK HOMES ANDERSON II LOT 109 MONTICELLO 1705 NE FREEHOLD DR LEE SUMMIT MO

*SCALE* 1/4" = 1-0

DATE 5-13-21

PLAN NO.

3531

SHEET NO.

JOSEPH A. TOWNS P.E.

APPLIES TO STRUCTURAL

PROFESSIONAL SEAL

MO. LIC E 22017

**ELEMENTS ONLY** 

5 OF 6
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

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

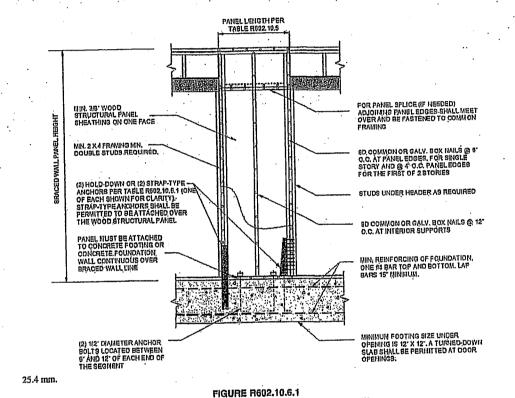
WITHLADDER

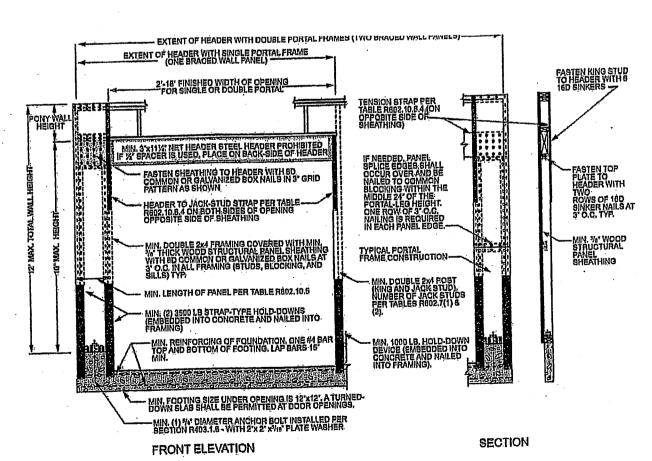
		TABLE R602.10.4—continued BHACING METHODS			
			COL		
DDS, MATERIAL	MINIMUM THICKNESS	Hanse	Festenere		
PFH ortal frame with hold-downs	√g"		See Section R602.1		
PFG dal frame at gamge	7/ <sub>16</sub> "		See Section R602.		
CS-WSP ntinuously sheathed od structural panel	3/6/1		Exterior sheathin Table R602.3( Interior sheathin Table R602.3(1) or R		
CS-G <sup>b,c</sup> ntinuously sheathed nod structural paus) idjacent to garage openings	³/g"		See Method CS-		
CS-PF intinuously sheathed portal frame	7/16"		See Section R602		
CS-SFB* ontinuously sheathed tructural fiberboard	1/2" or <sup>25</sup> /32" for maximum 16" stud spacing		1½," long × 0.12 (for ½," thick she: 1½," long × 0.12 (for <sup>25</sup> / <sub>21</sub> " thick she galvanized roofin		
			'		

				April 1 mary	***************************************
M	ETHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Festeners	Specing
Methods	PFH Portal frame with hold-downs	. Yg"		See Section R602.10.6.2	See Section R602.10.6.2
Intermittent Bracing Methods	PFG Portal frame at garage	7/ <sub>16</sub> "		S2e Section R602.10.6.3	See Section R602.10.6.3
	CS-WSP			Exterior sheathing per Table R602.3(3)	6" edges 12" field
	Continuously sheathed wood structural panel	3/8"		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
Continuous Sheathing Methods	CS.G.** Continuously sheathed wood structural pauel adjacent to garage openings	²/g"		See Method CS-WSP	See Method CS-WSP
uous Sh	CS-PF Continuously sheathed	7/16"		See Section R602.10.6.4	See Section R602,10.6.4
Contin	portal frame  CS-SFB <sup>2</sup> Continuously sheathed structural fiberboard	1/2" or <sup>25</sup> / <sub>32</sub> " for meximum 16" stud spacing		11/," long x 0.12" dla. (for '/," thick sheathing) 13/," long x 0.12" dia. (for <sup>22</sup> / <sub>23</sub> " thick sheathing) galvanized roofing nalis	3"edges 6" field
a. Ad b. Ar Do c. Gr	thesive attachment of wall s pplies to panels next to gare usign Categories D <sub>o</sub> , D <sub>t</sub> and arage openings adjacent to a permitted adjacent to a next	heathing, including wester lige door opening where er D <sub>2</sub> roof covering dead lon i Method CS-O panel shall thod CS-O panel, to in Salemin Dislen Cute.	pporting gable end wall or ro d shall not exceed 3 psf. be provided with a header in	s foot = 47.8 N/m <sup>2</sup> , 1 mile per hour = in Selsmio Design Calegories C, $D_0$ , of fond only. Shall only be used on accordance with Table R602.7(1). A rice D, through D, only.	one wall of the games. In Seign

	ODNITIVUDUSI SHEATHED BRAGED WALL PANEL MEETING MINIUM LENGTH REQUIREMENTS OF TABLE REDZ. 10.5
EXTENT OF HEADER WITH SINGLE PORTAL FRAMES  2* 18' FINISHED WIDTH OF SPENING  FOR BINDLE OR DOUBLE PORTAL FRAME  2* 18' FINISHED WIDTH OF SPENING  FOR BINDLE OR DOUBLE PORTAL  FY BPACER IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BPACER IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE IS USED, FLAGE ON BACK-SIDE OF HEADER  FY BRACE WALL LINE  FY BRACE	FASTEN KING STUD TO HEADER WITH B HID BINKERS  FASTEN TOP PLATE WITH TWO SO FI SID SINGER WITH TWO SO FI SID SINGER MID SINGER SINGER MID SINGER MID SINGER MID SINGER SINGER MID SINGER MI
OVER CONCRETE OR MASONRY BLOCK FOUNDATION  ANCHOR SOLIS FER  (S) FRAMING ANCHORS  APPLED AND BIS  APPLED AND BIS  WOOD STRUCTURAL PANEL OR RIM JOIST  WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST  WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST  OVER RAISED WOOD FLOOR - FRAMING ANOHOR OPTION  (WHERE PORTAL BHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)	NAIL GOLE PLATE TO J PER TABLE REDZ S(1) APPROVED OR RIM JO
WOOD STRUCTURAL FANEL SHEATHING TO TOP OF BAND OR RIM JOIST WITH OR RIM JOIST WITH WOOD STRUCTURAL FANEL SHEATHING OVER APPROVED BAND OR RIM JOIST WOOD STRUCTURAL FANEL SHEATHING OVER APPROVED BAND OR RIM JOIST WOOD STRUCTURAL FANEL SHEATHING OVER APPROVED BAND OR RIM JOIST WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD) FRONT ELEVATION	SECTION NAME OF THE PROPERTY O

	!	T RIUDƏR DRIDARE	ABLE RE02.10.3(1) EMENTS BABED C	N WIND SPEED			
EXPOSURE CATEGORY B 90-FOOT MEAN ROOF HEIGHT 10-FOOT WALL HEIGHT 2 BRACED WALL LINES			MINIMUM TOTAL LENGTH (PEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE'				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing <sup>5</sup> ((eut)	Method LIBb	Method GB	Melhode DWB, WBP, BFB, PBS, PCP, HPB, BV-WBP, ABW, FFH, PFO, CS-SFB	Methods CS-WSP, CS-G, CS-FF	
		10	3.5	3.5	2.0	2.0	
		20	6.5	6.5	3,5	3.5	
		30	9.5	9.5	5.5	4.5	
		40	12.5	12.5	7.0	6.0	
		50	15.0	15.0	9.0	7.5	
	HERES   1	60.	18.0	18.0	10.5	9.0	
		10	7.0	7.0	4.0	3.5	
-	_	20	12,5	12.5	7.5	6.5	
		30	18.0	18.0	10.5	9.0	
≤ 1 i 5	台	40	23.5	23.5	13.5	11.5	
		50	29.0	29.0	16.5	14.0	
1 1995		60	34,5	34.5	20.0	17.0	
٠.		10	NP.	10.0	6.0	5.0	
	I. A.	20	NP	18.5	11.0	9.0	
	1 1	30	NP	27.0	15.5	13.0	
	l H	40	NP	35.0	20.0	17.0	
		50	NP	43.0	24.5	21.0	
	<b>274</b> 1	60	NP	51.0	29.0	25.0	





4 mm, 1 foot = 304.8 mm.

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

, METHOD (See Table Re02.10.4)		MINIMUM LENGTH				CONTRIBUTING LENGTH	
		Wall Height					(Inches)
H.			9 feet	10 feet	11 feol	12 feet	
DWB WSP. SFB. PI	S, PCP, HPS, BV-WSP	48	48	48	53	58	Actual
	GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
	LIB	55	62	69	NP	NP	Actual <sup>6</sup>
	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
ABW	$\overline{SDC}$ $D_0$ , $D_1$ and $D_2$ , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
	S-G	24	27	30	33	36	Actual <sup>b</sup>
	Adjacent clear opening height (inches)						
	≤64	24	27	30	33	36	1
	68	26	27	30	33	36.	
	72	27	27	30	33	36	_
	76	30	29	30	33	36	
	80	32	30	30	33	36	Actual <sup>b</sup>
	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	<b>—</b>		50	.45	43	1
	116			55	48	45	
	120			60	52	48	
	124	· .—			56	51	_
	128	=	<u> </u>		61	54	_
	132	-	_		66	58	_
	136	_				62	_
	140	T -	_			66	
	144		<b>—</b>			72	
	HIHOD			rial heads		12 feet	-
(See Ta	ible R602,10.4)	8 feet	9 fast	10 feet	11 feet.	Note o	
PFH	Supporting roof only	16	16	16	Note c	Note o	48
FFN	Supporting one story and roo	f 24	24	24		Noted	
	PFG	24	27	30	Note d	Note	
CS-PF	SDC A, B and C	16	18	20	Note e	Note	
	$\overline{SDCD_0}$ , $D_1$ and $D_2$ foot = 304.8 mm, 1 mile per hour =	16	18	20	Notee	INOIRE	

BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A JOSEPH A. TOWNS P.E.

MO. LIC E 22017 PROFESSIONAL SEAL APPLIES TO STRUCTURAL **ELEMENTS ONLY** 

5-13-21 PLAN NO. 3531

SCALE

1/4" = 1-0

DATE

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

NICK ZVACEK HOMES ANDERSON II LOT 109 MONTICELLO 4705 NE FREEHOLD DR LEE SUMMIT MO

SHEET NO.

6 OF 6 AS NOTED ON PLANS REVIEW Development Services LEE'S SUMMIT, MISSOURI

structural panel (See Section R604 See Figure R602,10.6.5 7/16" Nails or screws per Table R702.3.5 for interior locations For ½, 6d common (2" long × 0.113" dia.) nails For ½". 8d common (2½" long × 0.131" dia.) nails <sup>3</sup>/<sub>8</sub>" or <sup>1</sup>/<sub>2</sub>" for maximum 16" stud spacing PCP Portland HPS Hardboard panel siding 7/15" for maximum 16' stud spacing ABW

1 x 4 wood or pproved metal strap 45° to 60° angles fo maximum 16" stud spacing

/<sub>4</sub>" (1" nominal) fo maximum 24" stud spacing

³/<sub>8</sub>"

Spacing

ood: per stud and

Per stud

6" edges 12" field

Section R602.10.6.1

Exterior sheathing per Table R602.3(3)

For SI: 1 Inch = 25.4 mm, 1 foot = 304.8 mm. For St. 1 since 2-34 time, t too 1997 and 1997.

RP = 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 PFG 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.

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.

Figure R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED FORTAL FRAME PANEL CONSTRUCTION