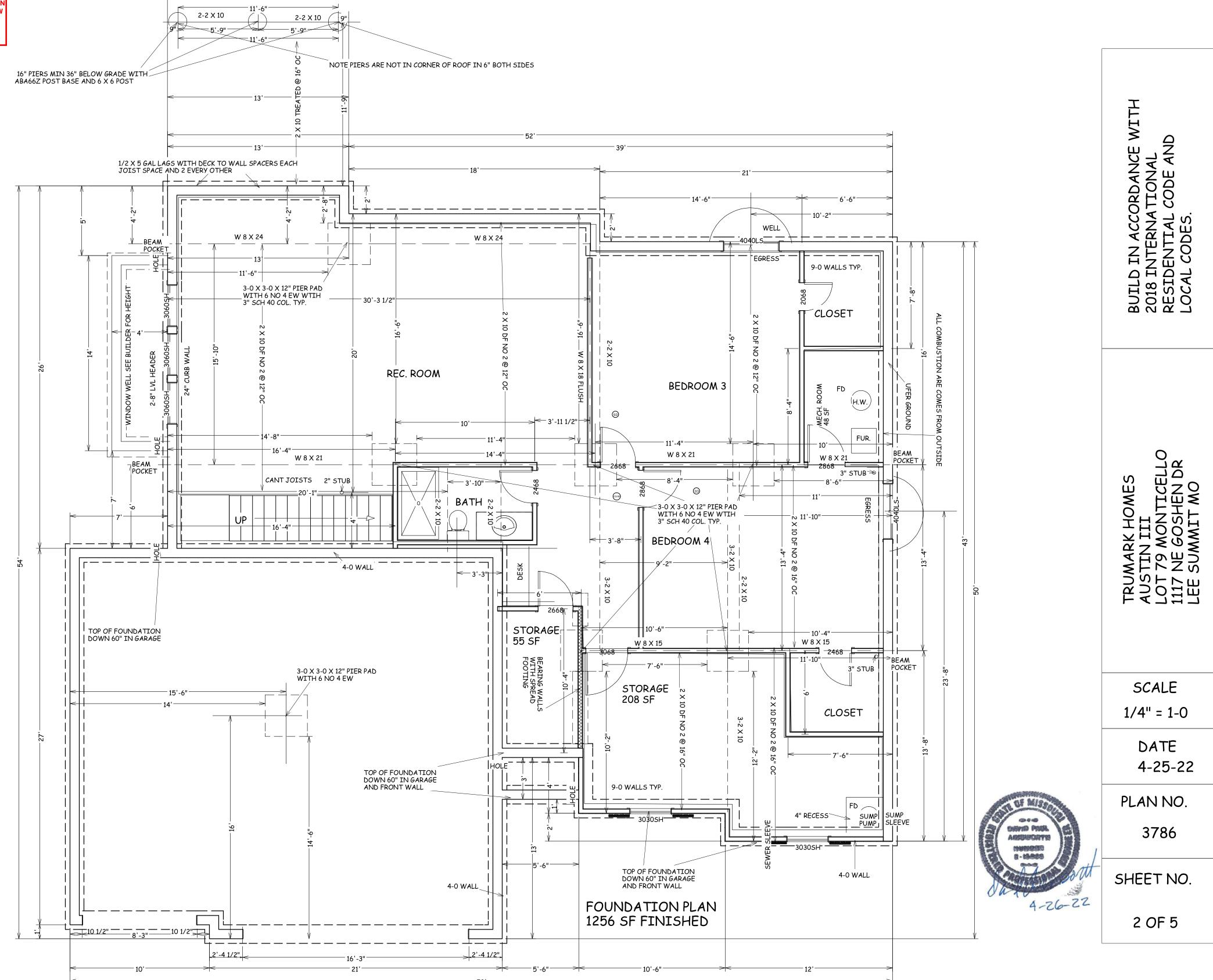
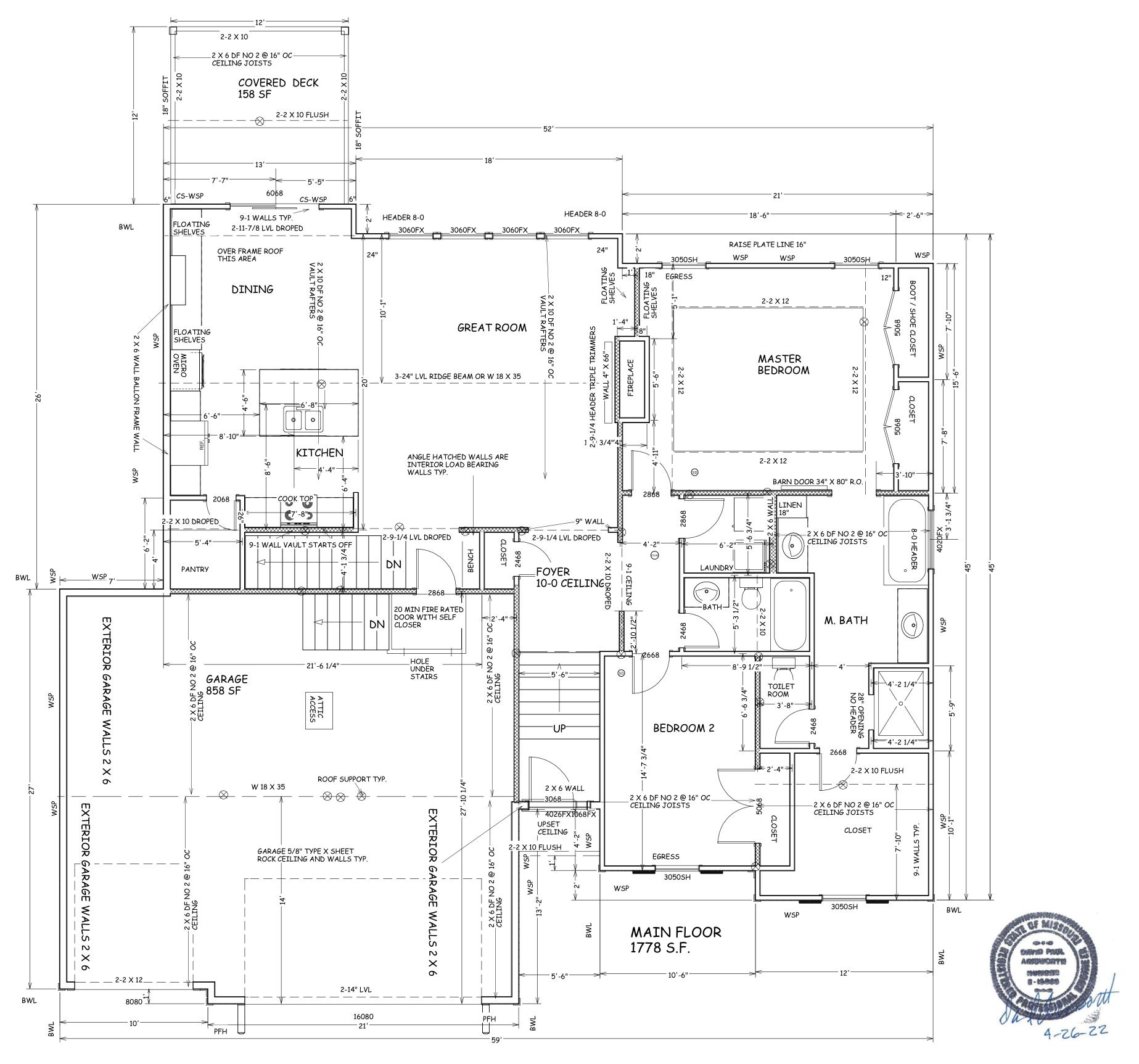


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/09/2022 3:27:12





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

TRUMARK HOMES AUSTIN III LOT 79 MONTICELLO 1117 NE GOSHEN DR LEE SUMMIT MO

SCALE 1/4" = 1-0

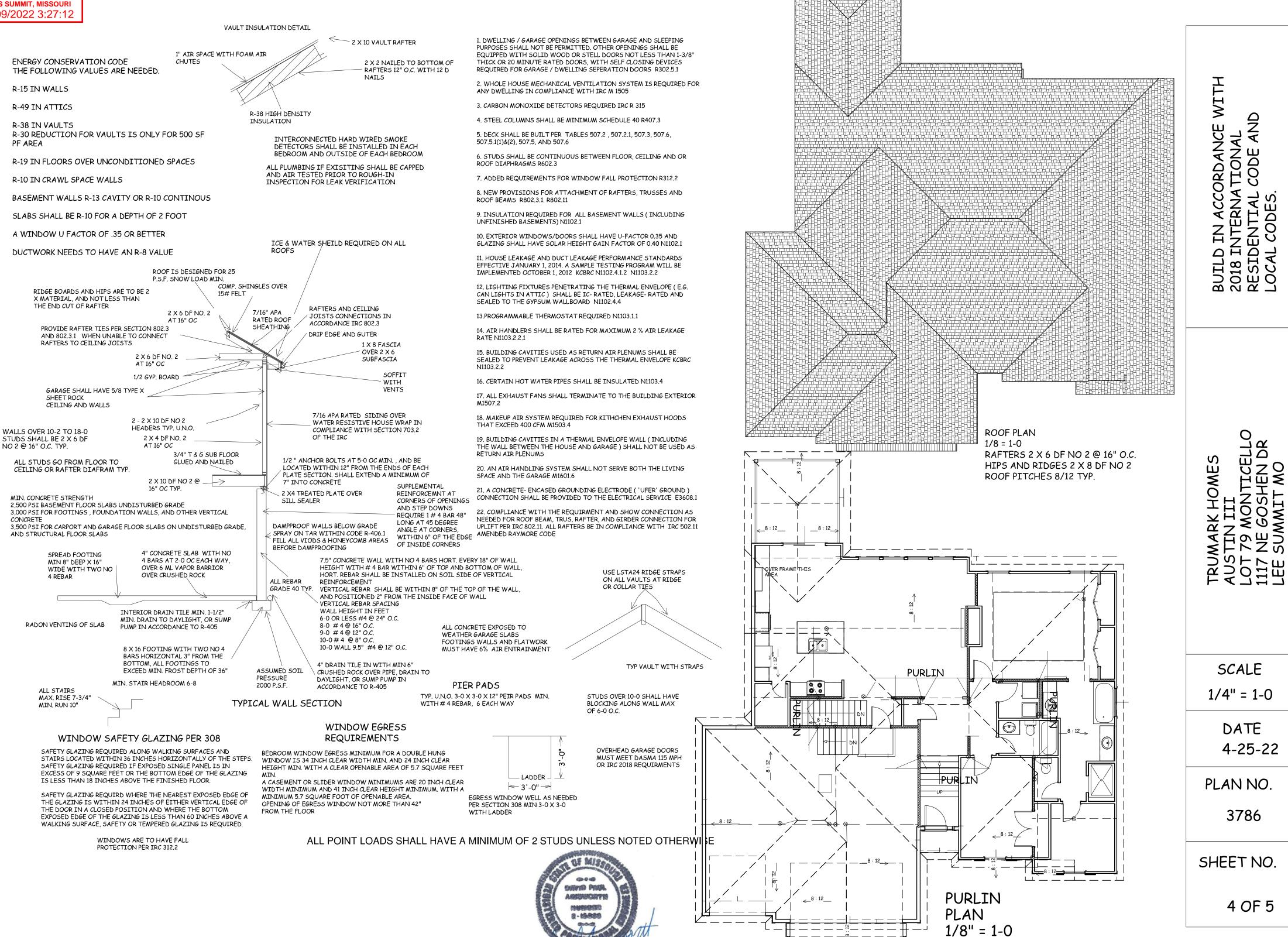
DATE 4-25-22

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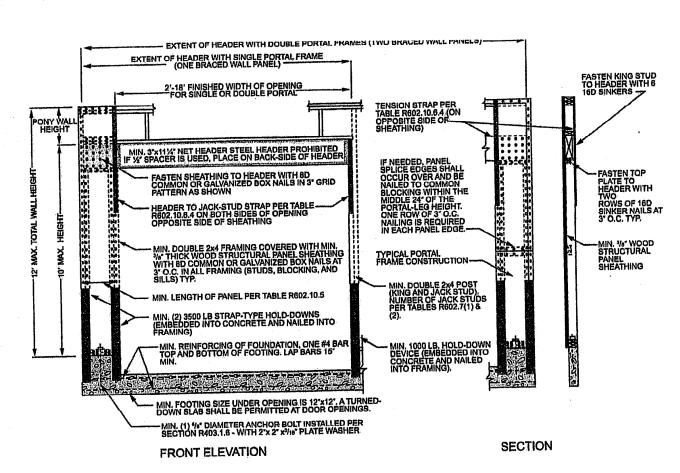
3 OF 5



	E	TA RACING REQUIR	ABLE R602.10.3(1) EMENTS BASED C	N WIND SPEED				
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 ^o (feet)	Method LIB ^b	Method QB	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB	Methods CS-WSP, CS-G, CS-PF		
 		10	3.5	3.5	2.0	2.0		
	λ	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		
		60	18.0	18.0	10.5	9.0		
1	^	10	7.0	7.0	4.0	3.5		
		20	12.5	12.5	7.5	6.5		
1.	\ \ \ \ \ \	30	18.0	18.0	10.5	9.0		
≤ 115		40	23.5	23.5	13.5	11.5		
		50	29.0	29.0	16.5	14.0		
		60	34.5	34.5	20.0	17.0		
	Ĥ	10	NP	10.0	6.0	5.0		
		20	NP	18.5	11.0	9.0		
		30	NP	27.0	15.5	13.0		
		40	NP	35.0	20.0	17.0		
1		50	NP	43.0	24.5	21.0		
	40.00	60	NP	51.0	29.0	25.0		

	PANEL LENGTH PER TABLE R602 10.5	
BRACEDWALL PANEL HEIGHT	MIN. 3/8' WOOD STRUCTURAL PANEL SHEATHING ON ONE FACE MIN. 2 X4 FRAMING MIN. DOUBLE STUDS REQUIRED. (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	FOR PANEL SPLICE (IF NEEDED) ADJOINING PANEL EDGES SHALL MEET OVER AND BE FASTENED TO COMMON FRAMING 8D COMMON OR GALV. BOX NAILS @ 6' O, C, AT PANEL EDGES. FOR SINGLE STORY AND @ 4' O.C. PANEL EDGES FOR THE FIRST OF 2 STORIES STUDS UNDER HEADER AS REQUIRED 8D COMMON OR GALV. BOX NAILS @ 12"
	PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION WALL CONTINUOUS OVER BRACED WALL LINE	MIN, REINFORCING OF FOUNDATION, ONE #4 BAR TOP AND BOTTOM, LAP BARS 15" MINIMUM.
25.4 mm.	(2) 1/2: DIAMETER ANCHOR BOLTS LOCATED BETWEEN 6° AND 12° OF EACH END OF THE SEGMENT	MINIMUM FOOTING SIZE UNDER OPENING IS 12' X 12' A TURNED-DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

FIGURE R602.10.6.1 METHOD ABW---ALTERNATE BRACED WALL PANEL



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 CRITERI	IA2 !
METHODS, 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 $(2^{1}/_{2}" \text{ long} \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \text{ long staples}$	Per stud
Intermittent Bracing Methods	WSP Wood		[SSI]]]]]]]]]]]]]	Exterior sheathing per Table R602.3(3)	6" edges 12" field
	structural panel (See Section R60-	3/ ₈ "		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	BV-WSP* Wood structural panels with ston or masonry vene (See Section R602.10.6.5)	7/"	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		$1^{1}J_{2}^{"}$ long \times 0.12" dia. (for $^{1}J_{2}^{"}$ thick sheathing) $1^{3}J_{4}^{"}$ long \times 0.12" dia. (for $^{25}J_{32}^{"}$ thick sheathing) galvanized roofing nails	3" edges 6" field
				Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7" edges (including top
	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 R6)	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 plaste	See Section R703.7 for maximum 16"		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

MINIMUM LE			MINI	CONTRIBUTING LENGTH				
(See Table R602.10.4)		Wall Height					(inches)	
		8 feet	9 feet	10 feet	11 feet	12 feet	Actual ^b	
DWB, WSP, SFB, P	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Double sided = Actual	
	GB	48	48	48	53	58	Single sided = 0.5 × Actual	
	LIB	55	62	69	NP	NP	Actual ⁶	
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48	
	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	<u></u>	
	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		
CS-WSP, CS-SFB	100		44	40	38	38		
	104		49	43	40	39	Acidas	
	108		54	46	43	41		
	112		<u> </u>	50	45	45	ļ. -	
	116			55	48	48		
	120		<u> </u>	60	52 56	51	_	
	124	<u> </u>		<u> </u>	61	54		
	128				66	58	-	
	132				00	62	4	
	136	 		 	+=	66	⊣ .	
	140	<u> </u>	 -	+	 	72	-	
	144	 		rtal header	helaht	J	 	
METHOD (See Table R602,10.4)		8 fact	9 feet	10 feet	11 feet	12 feet		
	Supporting roof only	16	16	16	Note c	Note c	48	
PFH	Supporting one story and roo	f 24	24	24	Note c	Note c		
	PFG	24	27	30	Note d	Note d		
	SDC A, B and C	16	18	20	Note e	Note e		
CS-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note e	Actual ^b	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

For St. 1 inch = 25.4 mm, t foot = 50.48 mm, t had per near the 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 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.

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

	BUNCHING METHOL	<i>,</i>			
		CONNECTION CRITERIA			
MUM THICKNESS	FIGURE	Feateners	Specing		
3/g"		See Section R602.10.6.2	See Section R602.10.6.2		
7 ₁₆ "		See Section R602.10.6.3	See Section R602.10.6.		
		Exterior sheathing per Table R602.3(3)	6" edges 12" field		
3/8"		Interior sheathing per	Varies by fastener		

See Method CS-WSP

See Section R602.10.6.4

See Section R602.10.6.4

3" edges 6" field

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

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, D_{or}, 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 D₀, D₁ and D₂.

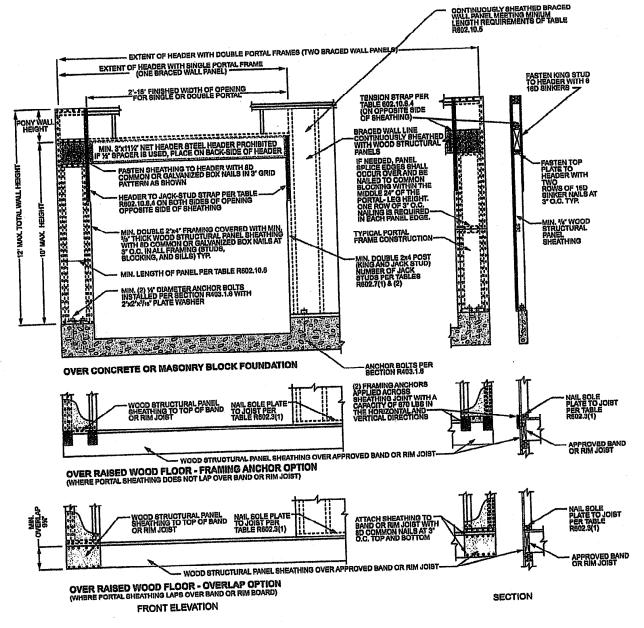
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₀ through D₂ only.

CS-WSP

CS-Gb,c

wood structural pane adjacent to garage openings CS-PF

CS-SFB^d



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



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

TRUMARK HOMES AUSTIN III LOT 79 MONTICELLO 1117 NE GOSHEN DR LEE SUMMIT MO

SCALE 1/4" = 1-0

> DATE 4-25-22

PLAN NO.

3786

SHEET NO.

5 OF 5