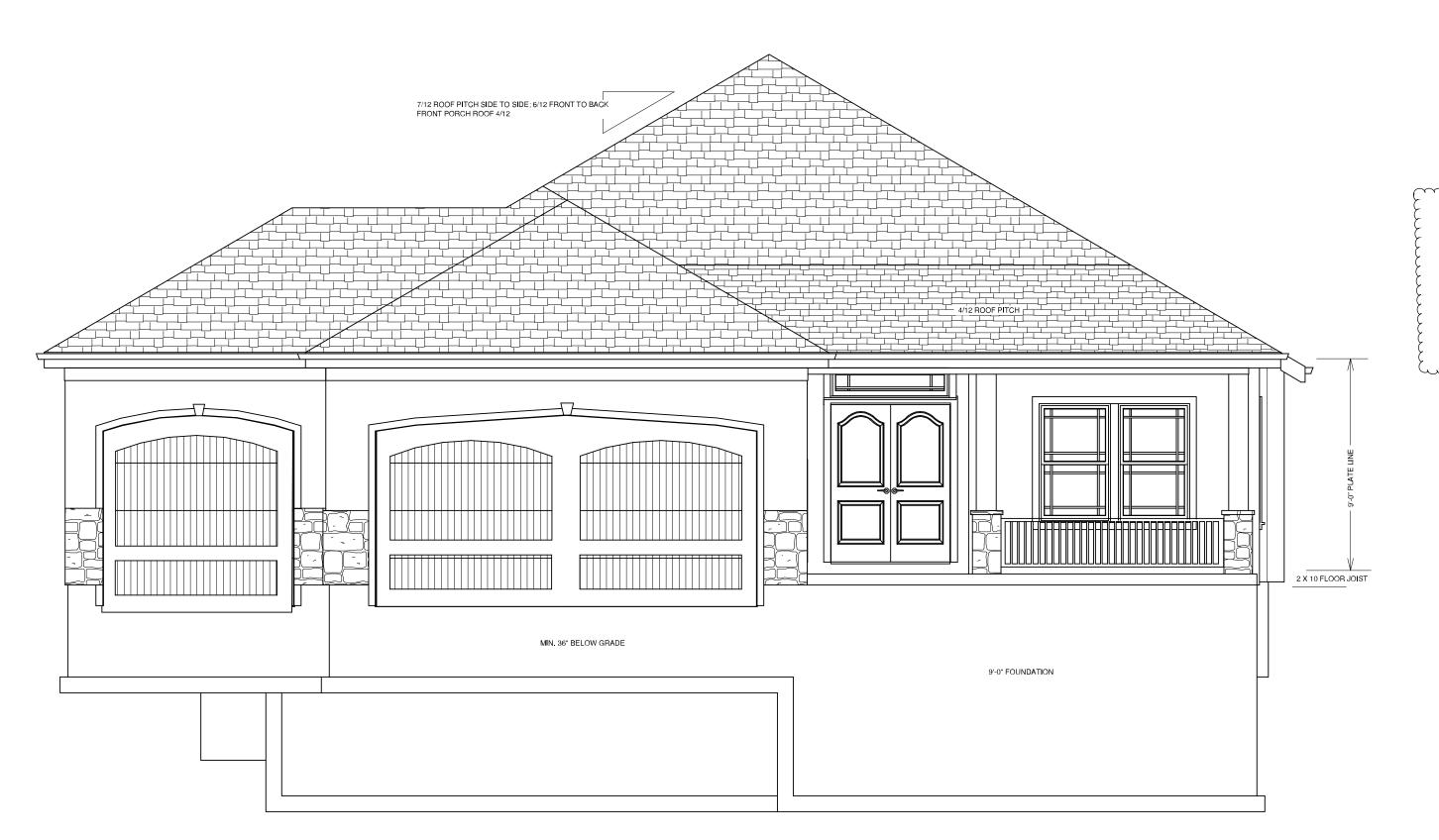
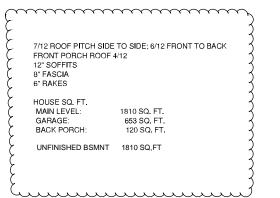


PLANS AND CONSTRUCTION TO BE IN ACCORDANCE WITH 2018 IRC AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO







RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/02/2020

4708 NE SARATOGA CT. LEE'S SUMMIT, MO MELLINGTON MC 107

ELEVATIONS

To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and any changes made on them after prints are made will be done at the owner's and / or builder's expense and responsibility.

The contractor shall verify all dimensions and enclosed drawing. The maker of these plans is not an architect or engineer is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

PANAL SIDING FRONT RETURNS SIDES AND BACK, LP PRECISION PANEL SIDING 7/16" MUST BE INSTALLED WITH ITS LONG DIMISION ORIENTED VERTICALLY.

FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN, 1-1/2"

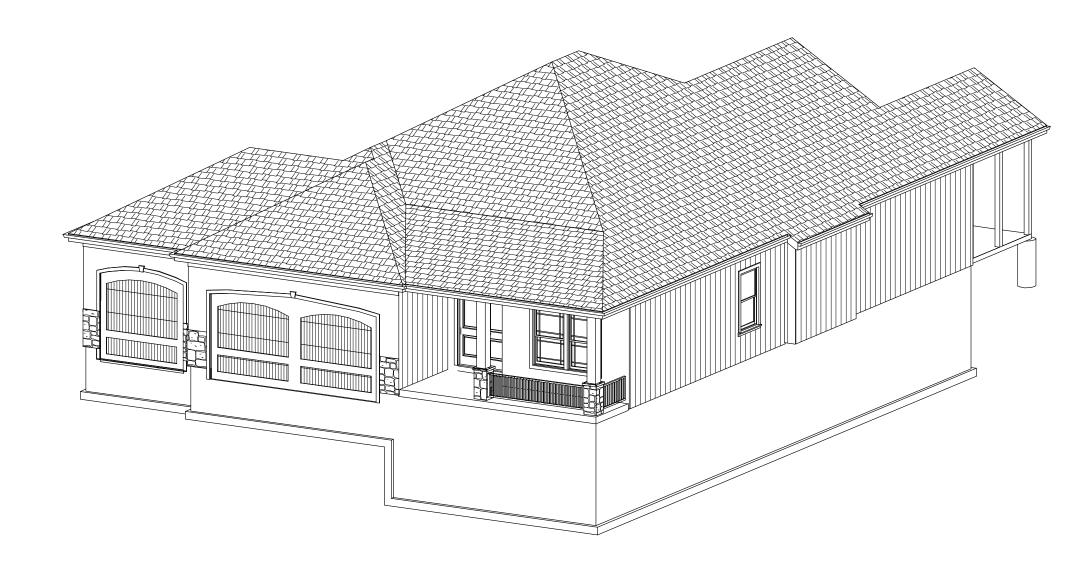
FASTENER MUST HAVE A MINIMUM HEAD DIAMETER OF 0.297 INCH, A MINIMUM SHAFT DIAMETER OF 0.113 INCH AND A MINIMUM I FNGTH OF 2-1/2" INCHES

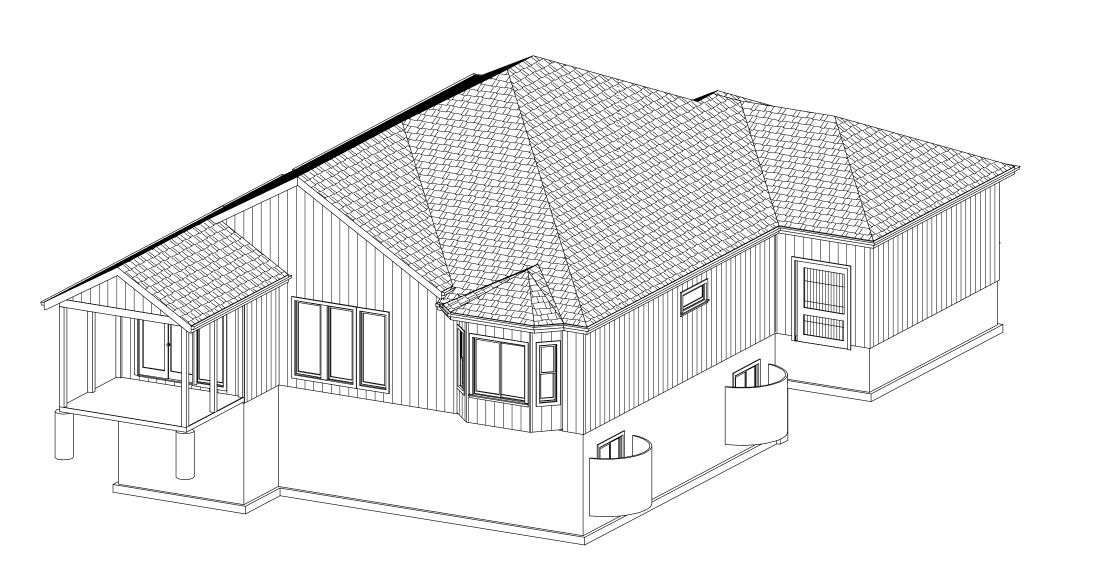
OSB 7/16" UNDER STUCCO AND STONE ON FRONT

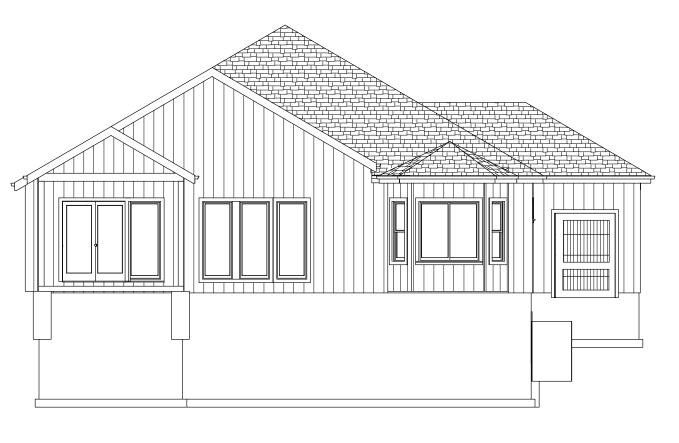
FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN. 1-1/2"

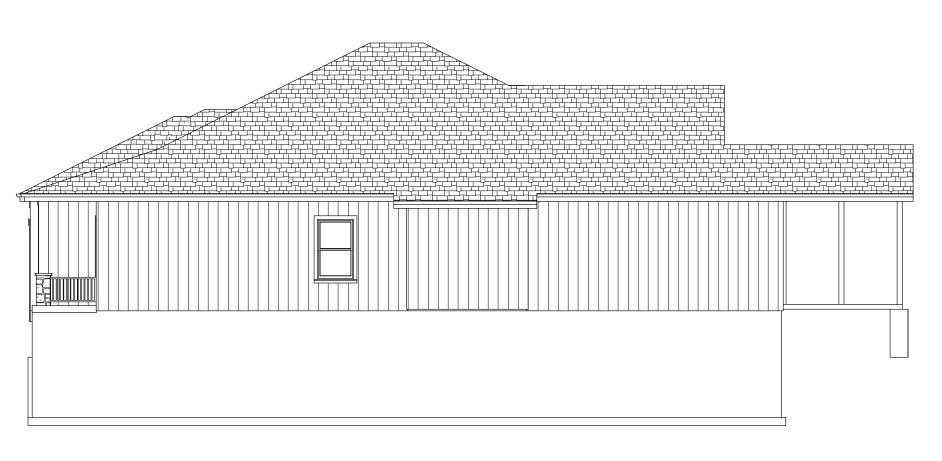
FASTENER MUST HAVE A MINIMUM HEAD DIAMETER OF 0.297 INCH, A MINIMUM SHAFT DIAMETER OF 0.113 INCH AND A MINIMUM LENGTH OF 2-1/2" INCHES



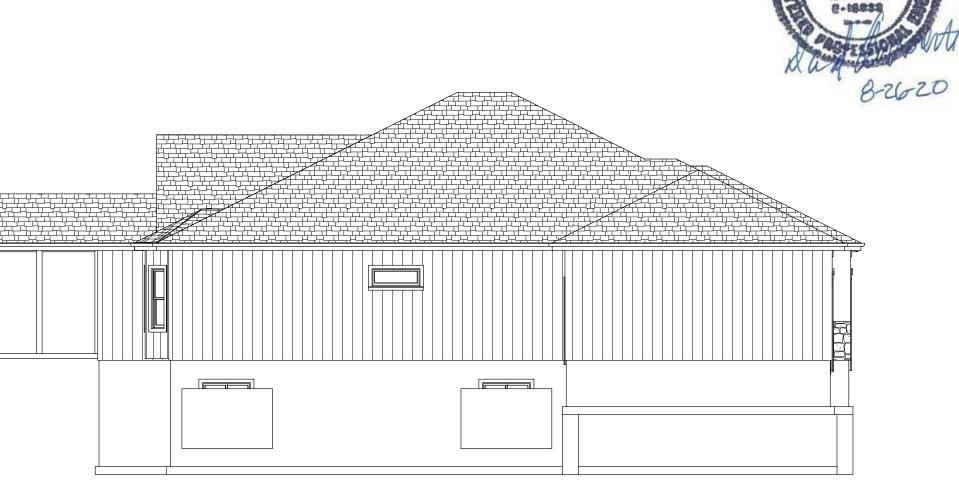




BACK



RIGHT SIDE



LEFT SIDE



To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and ar changes made on them after prints are made will be done the owner's and / or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. The maker of these plans is not an architect or engineer is not liable for errors once construction has beg. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee again human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

PAGE 2 PLAN: 8-3-18

Calculations are not applicable.

90% Efficient Furnace so Combustion Air

CONCRETE

Concrete strength shall comply with the following minimum strength requirements at 28 days [IRC R402.2]:

- 2,500 psi for basements floor slabs on undisturbed grade.
- 3,000 psi for footings, foundation walls, and other vertical concrete.
- 3,500 psi for carport and garage floor slabs on undisturbed grade. 3,500 psi for structural floor slabs.

Concrete shall be 6% (+/- 1%) air-entrained for garage slabs and for all locations footings, walls or flatwork where exposed to weather. Rebar shall be minimum 40 ksi unless noted otherwise.

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STELL DOORS NOT LESS THAN 1-3/8" THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1

2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR ANY DWELLING WITH AIR INFILTRATION AT A RATE OF LESS THAN 3 AIR CHANGES PER HOUR (AT ACH50 STANDARD 0 R303.4

3. CARBON MONOXIDE DETECTORS REQUIRED 9 R3150

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK LEDGER ATTACHMENT TO HOUSE SHALL BE PER TABLES 507.2 AND 507.2.1

6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR ROOF DIAPHRAGMS R602.3

ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2

8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND ROOF BEAMS R802.3.1. R802.11

9. INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING UNFINISHED BASEMENTS) N1102.1

10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1

11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102,4.1,2 N1103,2.2

12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G. CAN LIGHTS IN ATTIC) SHALL BE IC-RATED, LEAKAGE-RATED AND SEALED TO THE GYPSUM WALLBOARD N1102.4.4

13 PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1

14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE RATE NI103,2,2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC N1103.2.3

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR

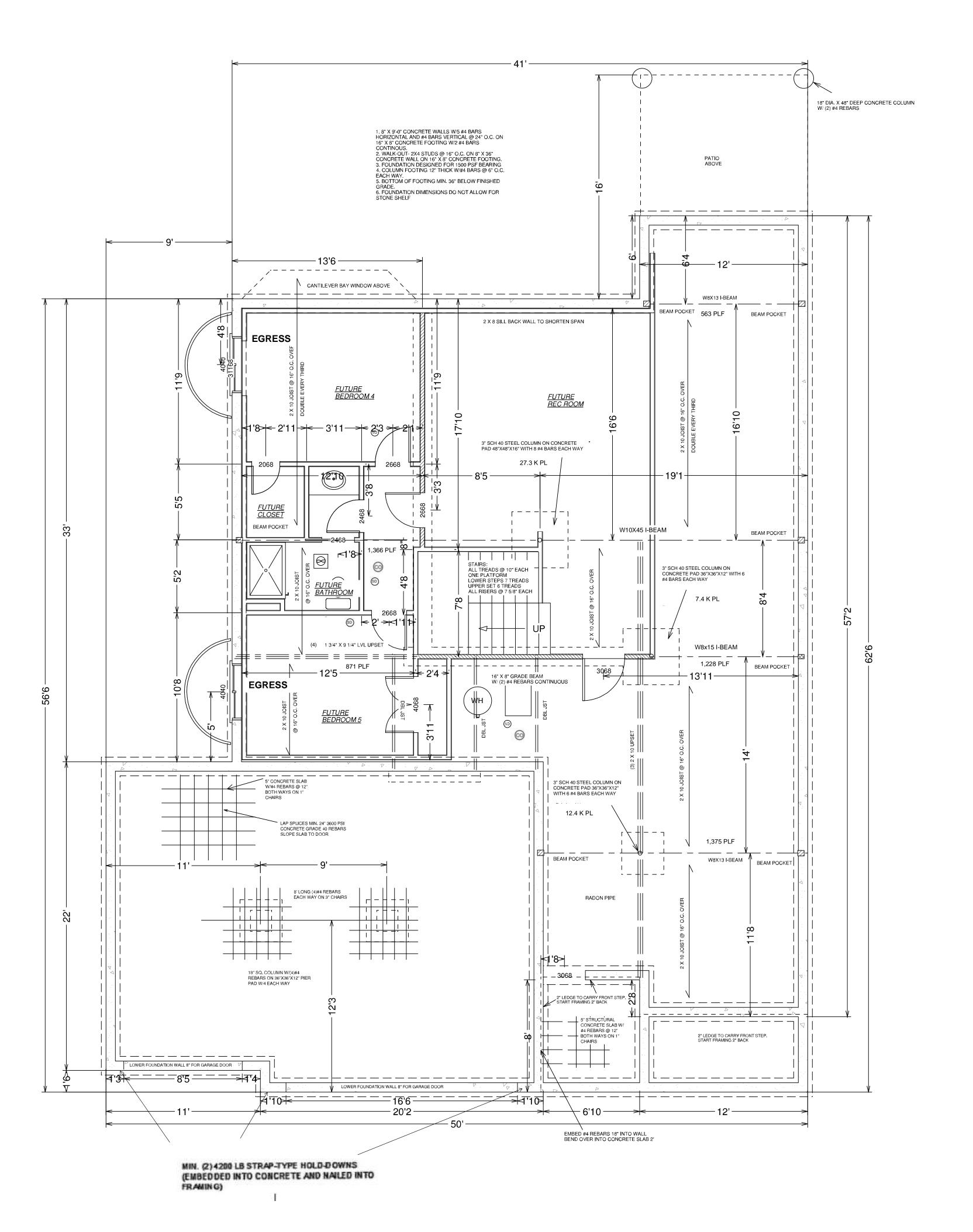
18. MAKEUP AIR SYSTEM REQUIRED FOR KITHCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS (UNLESS THE REQUIRED INSULATION AND AIR BARRIER ARE MAINTAINED) IRC M1601.1.1, #7.5

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE M1601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ("UFER" GROUND) CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE £3608.1

22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11





RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

09/02/2020

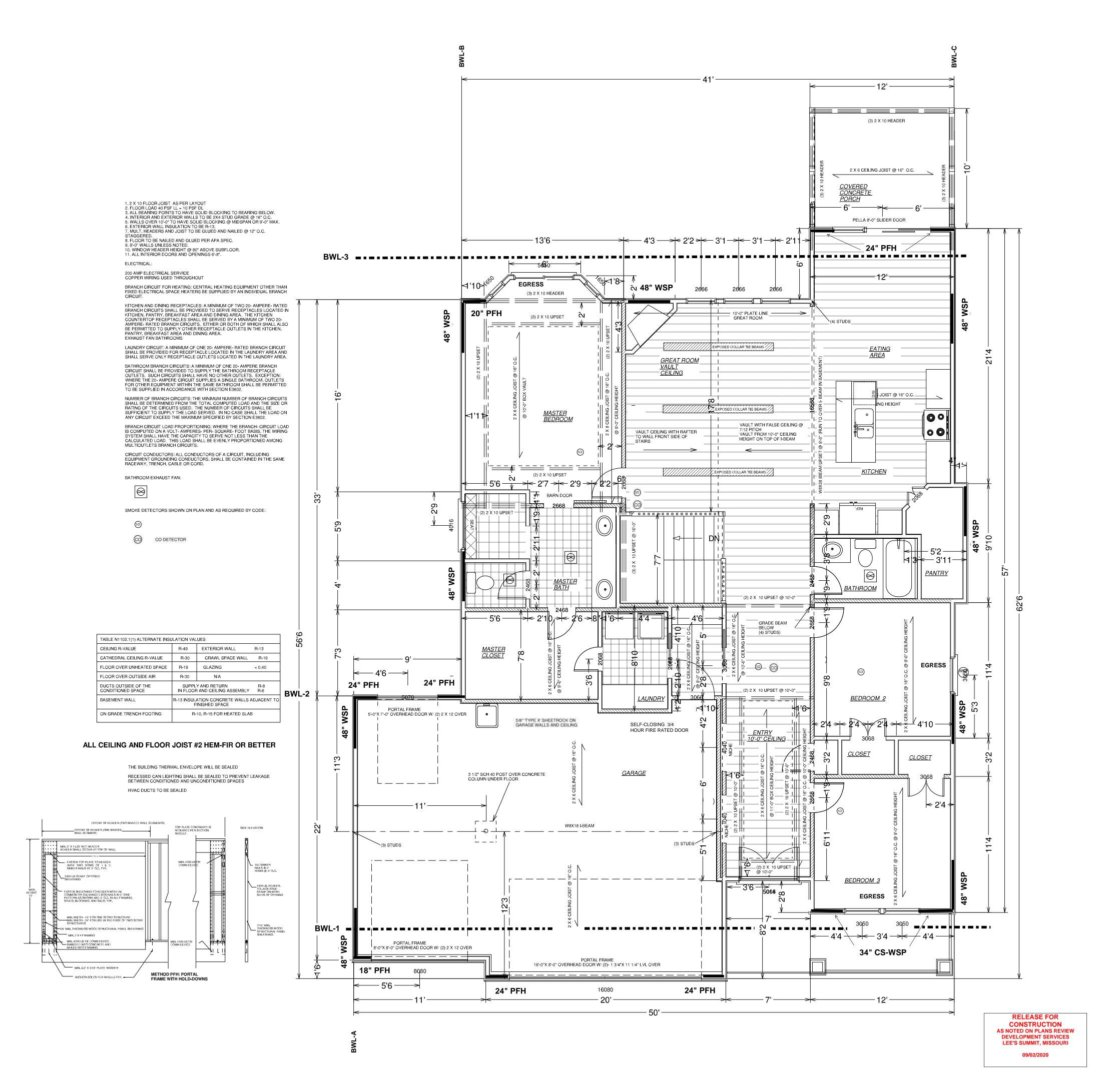
4708 NE SARATOGA CT. LEE'S SUMMIT, MO

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PAGE 3

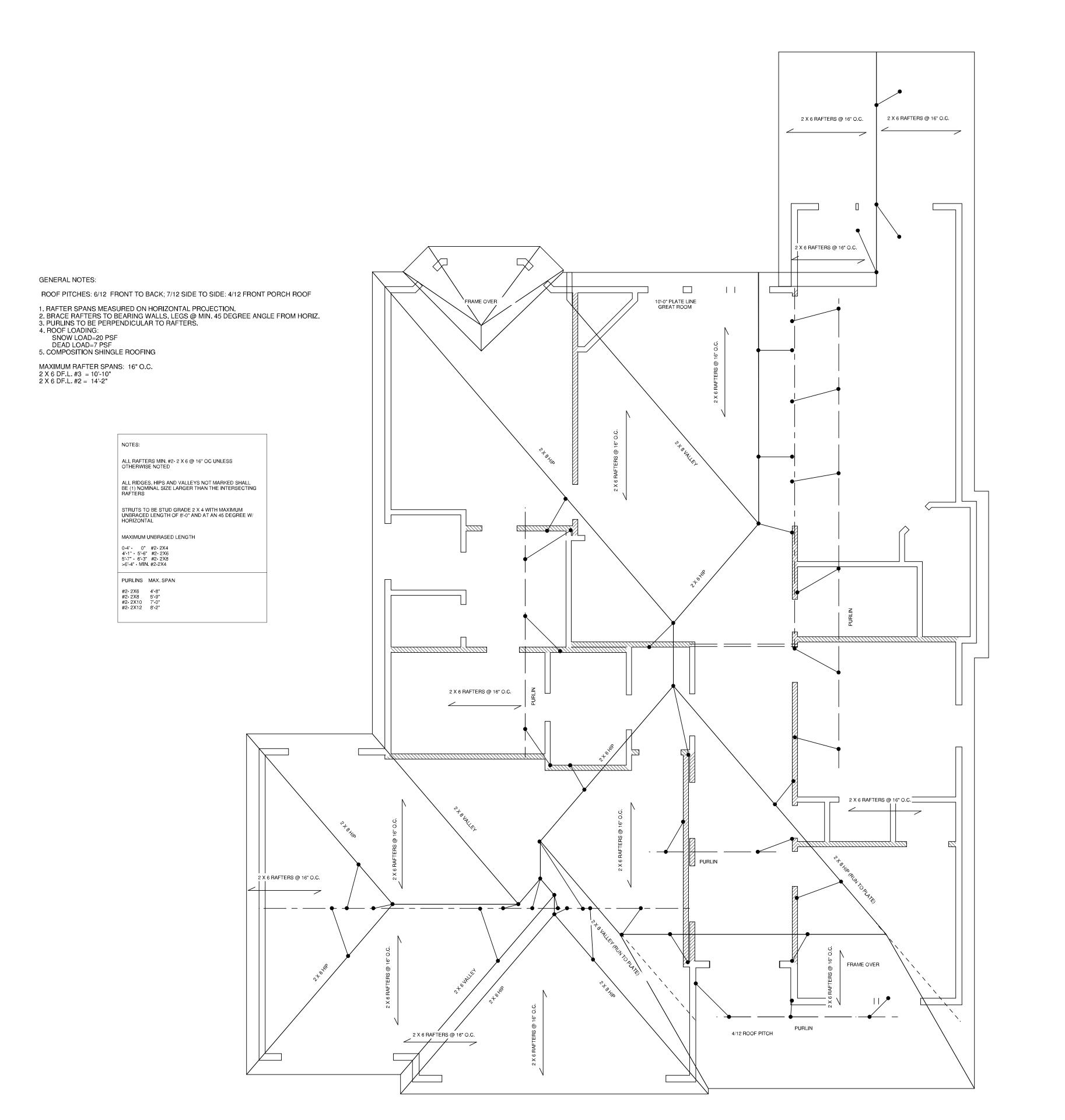




4708 NE SARATOGA CT. LEE'S SUMMIT, MO WELLINGTON MC 107

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4





4708 NE SARATOGA CT. LEE'S SUMMIT, MO

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/02/2020

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chang the own S. AND VERIFY ALL DIMENSIONS, the own S. AND CONNECTIONS BEFORE TRUCTION BEGINS.

FRICAL SYSTEM CODE: SEC.2701 While Plant ANICAL SYSTEM CODE: SEC.2801 human human dimen dimen dimen dimen dimen dimen dimen

SPECS, AND CC CONSTRUCTION CONSTRUCTION N:

ELECTRICAL SY MECHANICAL S' PLUMBING SYS'

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THE WELLINGTON MC 107

WE WE

EXPOSURE CATEGORY B 30 FOOT MEAN ROOF HEIGHT 10 FOOT EAVE-TO-RIDGE HEIGHT 10 FOOT WALL HEIGHT 2 BRACED WALL LINES		MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE®				
Basic Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB ^b	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, CS-SFB°	Methods CS-WSP, CS-G CS-PF
<u>10</u>	合自自	10	3.5	3.5	2.0	2.0
		20	7.0	7.0	4.0	3.5
		30	9.5	9.5	5.5	5.0
		40	12.5	12.5	7.5	6.0
		50	15.5	15.5	9.0	7.5
		60	18.5	18.5	10.5	9.0
	^ A	10	7.0	7.0	4.0	3.5
		20	13.0	13.0	7.5	6.5
		30	18.5	18.5	10.5	9.0
≤ 90	$H \rightarrow H$	40	24.0	24.0	14.0-	12.0
		50	29.5	29.5	17.0	14.5
		60	35.0	35.0	20.0	17.0
		10	NP	10.5	6.0	5.0
		20	NP	19.0	11.0	9.5
	l (1)	30	NP	27.5	15.5	13.5
	H	40	NP	35.5	20.5	17.5
	199	50	NP	44.0	25.0	21.5
	200	60	NP "	52.0	30.0	25.5

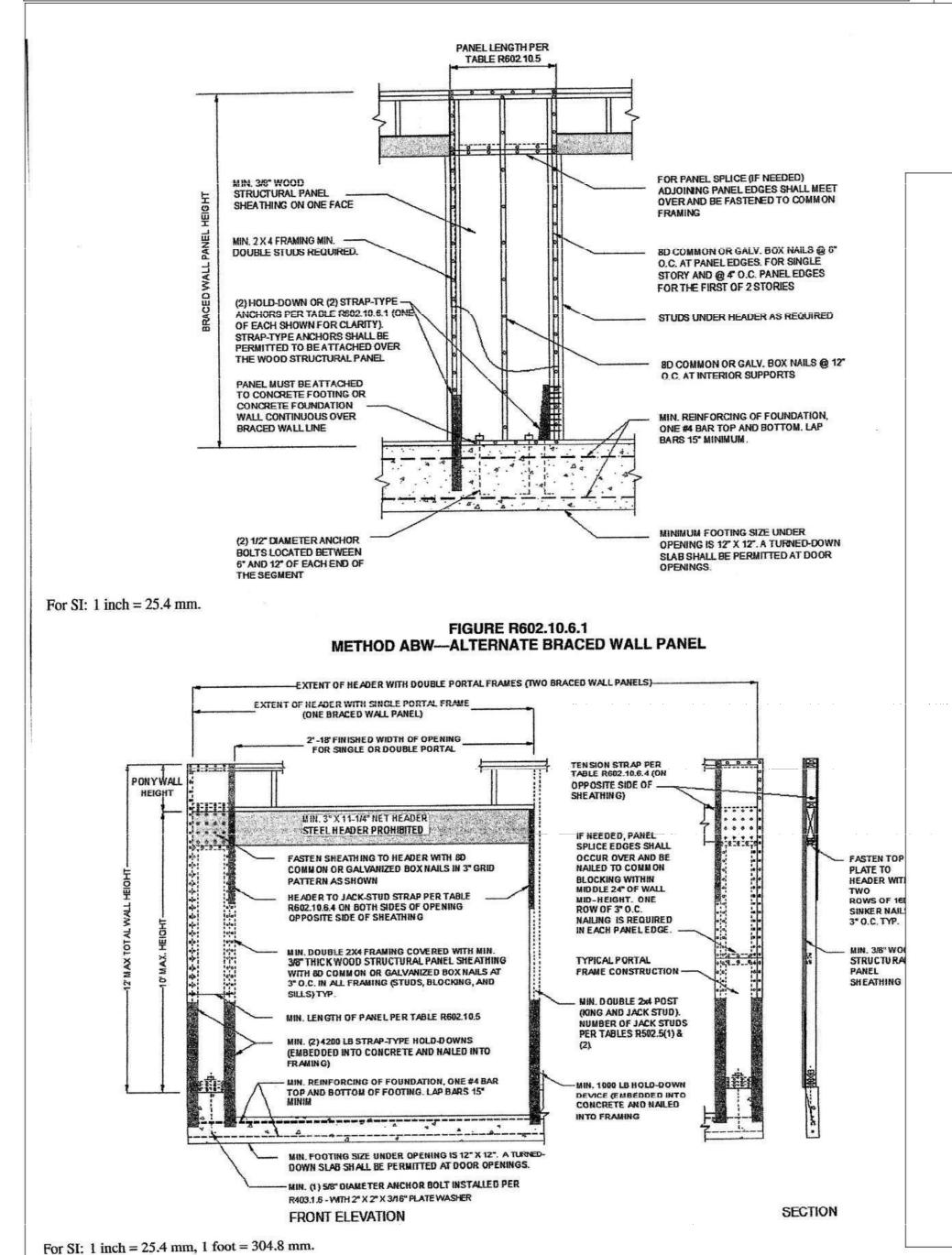


FIGURE R602.10.6.2 METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

2012 INTERNATIONAL RESIDENTIAL

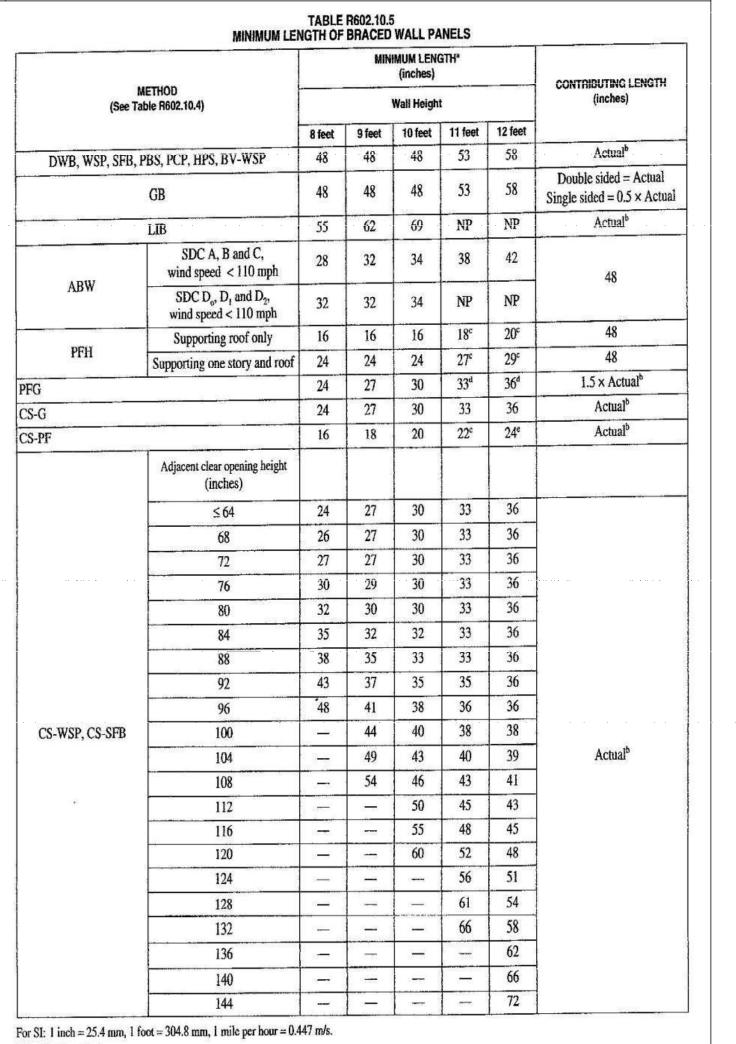
- 10				CONNECTION CRITERIA®		
ME	THODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing	
	LIB	1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing		Wood: 2-8d common nails or 3-8d (2 ¹ / ₂ " long x 0.113" dia.) nails	Wood: per stud and top and bottom plates	
	Let-in-bracing			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 $2 - 1^{3}/_{4}" \log \text{ staples}$	Per stud	
WSP Wood				Exterior sheathing per Table R602.3(3)	6" edges 12" field	
structu	structural panel (See Section R604)	³ / ₈ "		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener	
Intermittent Bracing Method	BV-WSP ^e Wood Structural Panels with Stone or Masonry Veneer (See Section R602.10.6.5)	⁷ / ₁₆ "	See Figure R602.10.6.5	8d common $(2^1/2^n \times 0.131)$ nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts	
	SFB Structural fiberboard sheath- ing	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 ²² / ₃₂ " thick sheathing) galvanized roofing nails or 8d common (2 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field	
	- CID			Nails or screws per Table R602.3(1) for exterior locations	panel locations: 7" edges (including top	
•	GB Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations		
	PBS Particleboard sheathing (See Section R605) PCP Portland cement plaster PBS 3/8" or 1/2" for maximum 16 stud spacing See Section R703 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	
				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 braced wall	3/8"	HIMMIN	See Section R602.10.6.1	See Section R602.10.6.1	

				CONNECTION CRITERIA*		
1	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing	
g Methods	PFH Portal frame with hold-downs	3/8"		See Section R602.10.6.2	See Section R602.10.6.	
Intermittent Bracing Methods	PFG Portal frame at garage	⁷ / ₁₆ "	lb-	See Section R602.10.6.3	See Section R602.10.6.	
Continuous Sheathing Methods	CS-WSP	31.11		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	
	CS-Gh,c Continuously sheathed wood structural panel adjacent to garage openings	3/8"		See Method CS-WSP	See Method CS-WSP	
	CS-PF Continuously sheathed portal frame	7/ ₁₆ "		See Section R602.10.6.4	See Section R602.10.6.	
	CS-SFB ^d Continuously sheathed structural fiberboard	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 or 8d common (2 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field	

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 when supporting gable end wall or roof load only. May only be used on one wall of the garage. In Seismic Design Categories D₀, D₁ and D₂ roof covering dead load may not exceed 3 psf.
- c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(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 Do, D, and D, and in areas where the wind speed exceeds 100 mph.



NP = Not Permitted. Linear interpolation shall be permitted. b. Use the actual length when 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 may be increased to 12 feet with pony wall. d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall.

----EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS) ------EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED WALL PANEL) 2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL TENSION STRAP PER TABLE 602.10.6.4 ON OPPOSITE SIDE OF SHEATHING) PONY WALL BRACED WALLLINE MIN, 3"X 11-1/4" NET HEADER CONTINUOUSLY SHEATHED STEEL HEADER PROHIBITED WITH WOOD STRUCTURAL PANELS - FASTEN TOPPLATE TO FASTEN SHEATHING TO HEADER WITH 80 HEADER WITH TWO COMMON OR GALVANIZED BOX NAILS IN 3" GRID ROWS OF 160 SINKER PATTERN AS SHOWN IF NEEDED PANEL NAILS AT 3" O.C. TYP. SPLICE EDGES SHALL OCCUR AND BE HEADER TO JACK-STUD STRAFF FER TABLE R602 10.6.4 ON BOTH SIDES OF OPENING ATTACHED TO OPPOSITE SIDE OF SHEATHING COMMON BLOCKING WITHIN 24" OF WALL MID-HEIGHT. ONE ROW MIN. 7/16' WOOD MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN. OF 3" O.C. NAILING IS STRUCTURALPANEL 7/16" THICK WOOD STRUCTURAL PANEL REQUIRED IN EACH SHEATHING SHEATHING WITH 8D COMMON OR GALVANIZED PANEL EDGE. BOX NAILS AT 3"O.C. IN ALL FRAMING (STUDS, BLOCKING, AND SILLS) TYP. TYPICAL PORTAL FRAME CONSTRUCTION -MIN. LENGTH OF PANEL PER TABLE R602.10.5 MIN. (2) 1/2"DIAMETER ANCHOR BOLTS INSTALLED PER R403.1.6 WITH 2"x2"x3/16" PLATE MIN, DOUBLE 2x4 POST (KING AND JACK STUD). NUMBER OF JACK STUDS PER TABLES R502.5(1) & (2). 4 2 4 4 ANCHOR BOLTS PER OVER CONCRETE OR MASONRY BLOCK FOUNDATION SECTION R403.1.6 APPLIED ACROSS NAIL SOLE PLATE -NAIL SOLE -- WOOD STRUCTURAL PANEL SHEATHING JOINT WITH A SHEATHING TO TOP OF BAND OR PLATE TO JOIST CAPACITY OF 670 LBS IN ---RIMJOIST PER TABLE TABLE R802.3(1) THE HORIZON TAL AND R602.3(4) VERTICAL DIRECTIONS APPROVED BAND WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST) WOOD STRUCTURAL NAIL SOLE NAIL SOLE PLATE -ATTACH SHEATHING TO -PANEL SHEATHING PLATE TO JOIST TO JOIST PER BAND OR RIM JOIST WITH __ CONTINUOUS OVER BAND PER TABLE TABLE R602.3(1) 8D COMMON NAILS AT 3" OR RIMJOIST R602.3(1) O.C. TOP AND BOTTOM APPROVED BAND - WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST OR RIMJOIST OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD) FRONT ELEVATION DOMES PASS For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME



4708 NE SARATOGA CT. LEE'S SUMMIT, MO

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Dave Richards Homebuilding,

PLAN: 8-3-18