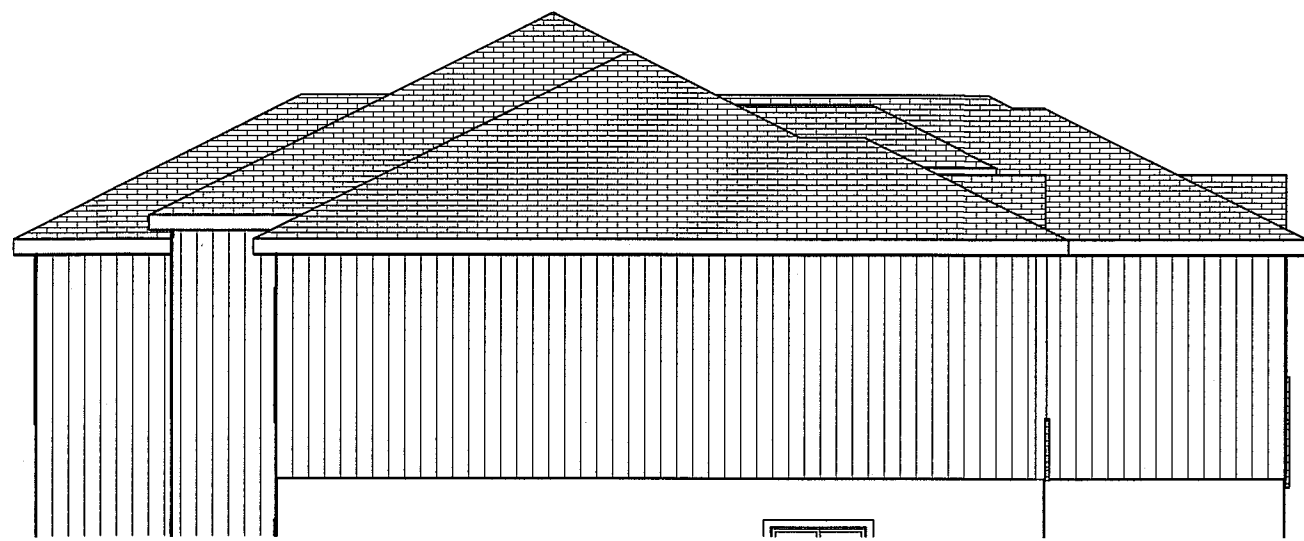
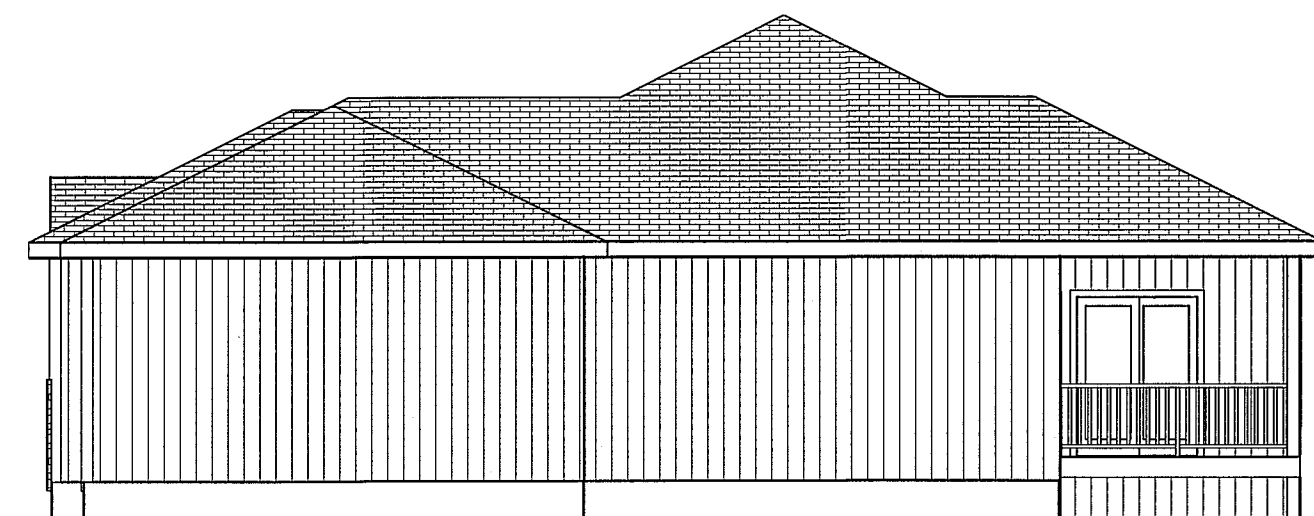




FRONT EL.  
STUCCO & STONE



LEFT EL.  
1/8 = 1-0



RIGHT EL.  
1/8 = 1-0



REAR EL.  
1/8 = 1-0

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
CODES ADMINISTRATION  
LEE'S SUMMIT, MISSOURI  
BY \_\_\_\_\_  
DATE \_\_\_\_\_

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.

BEHOME LLC  
LOT 132 MONTICELLO  
4816 NE FREEHOLD CT  
LEE SUMMIT MO

SCALE  
1/4" = 1-0

DATE  
4-29-21

PLAN NO.  
3505

SHEET NO.  
1 OF 5

BEHOME LLC  
LOT 132 MONTICELLO  
4816 NE FREEHOLD CT  
LEE SUMMIT MO

DATE  
4-29-21

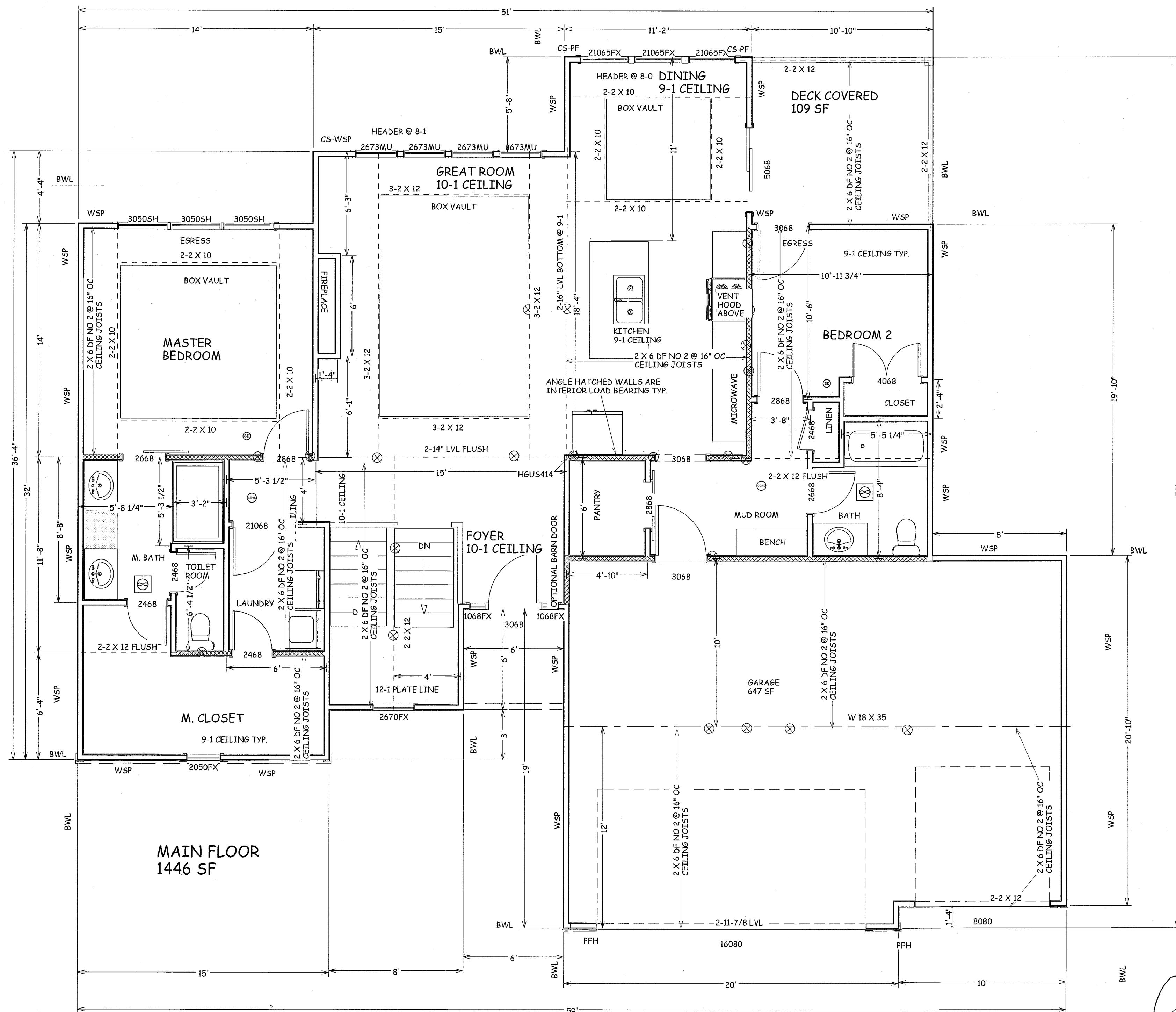
3505

2 OF 5

BY \_\_\_\_\_

DATE \_\_\_\_\_





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BEHOME LLC  
LOT 132 MONTICELLO  
4816 NE FREEHOLD CT  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
4-29-21

PLAN NO.

3505

SHEET NO.

3 OF 5

JOSEPH A. TOWNS P.E.  
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BY \_\_\_\_\_

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ENERGY CONSERVATION CODE  
THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS  
R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF  
PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

VAULT INSULATION DETAIL

1" AIR SPACE WITH FOAM AIR  
CHUTES

R-38 HIGH DENSITY  
INSULATION

INTERCONNECTED HARD WIRED SMOKE  
DETECTORS SHALL BE INSTALLED IN EACH  
BEDROOM AND OUTSIDE OF EACH BEDROOM

ALL PLUMBING IF EXISTING SHALL BE CAPPED  
AND AIR TESTED PRIOR TO ROUGH-IN  
INSPECTION FOR LEAK VERIFICATION

ICE & WATER SHIELD REQUIRED ON ALL  
ROOFS

RIDGE BOARDS AND HIPS ARE TO BE 2  
X MATERIAL, AND NOT LESS THAN  
THE END CUT OF RAFTER

PROVIDE RAFTER TIES PER SECTION 802.3  
AND 802.3.1 WHEN UNABLE TO CONNECT  
RAFTERS TO CEILING JOISTS

GARAGE SHALL HAVE 5/8 TYPE X  
SHEET ROCK  
CEILING AND WALLS

WALLS OVER 10'-2 TO 18'-0  
STUDS SHALL BE 2 X 6 DF  
NO 2 @ 16" O.C. TYP.

ALL STUDS 60 FROM FLOOR TO  
CEILING OR RAFTER DIAFRAM TYP.

MIN. CONCRETE STRENGTH  
2,500 PSI BASEMENT FLOOR SLABS 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,  
AND STRUCTURAL FLOOR SLABS

SPREAD FOOTING  
MIN 8" DEEP X 16"  
WIDE WITH TWO NO 4  
REBAR

RADON VENTING OF SLAB

4" CONCRETE SLAB WITH NO  
4 BARS AT 2'-0 O.C EACH WAY,  
OVER 6 ML VAPOR BARRIER  
OVER CRUSHED ROCK

INTERIOR DRAIN TILE MIN. 1-1/2"  
MIN. DRAIN TO DAYLIGHT, OR SUMP  
PUMP IN ACCORDANCE TO R-405

8 X 16 FOOTING WITH TWO NO 4  
BARS HORIZONTAL 3" FROM THE  
BOTTOM, ALL FOOTINGS TO  
EXCEED MIN. FROST DEPTH OF 36"

MIN. STAIR HEADROOM 6'-8

ALL STAIRS  
MAX. RISE 7-3/4"  
MIN. RUN 10"

#### WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND  
STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS.  
SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN  
EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING  
IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRED WHERE THE NEAREST EXPOSED EDGE OF  
THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF  
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

#### TYPICAL WALL SECTION

#### WINDOW EGRESS REQUIREMENTS

BEDROOM WINDOW EGRESS MINIMUM FOR A DOUBLE HUNG  
WINDOW IS 34 INCH CLEAR WIDTH MIN. AND 24 INCH CLEAR  
HEIGHT MIN. WITH A CLEAR OPENABLE AREA OF 5.7 SQUARE FEET  
MIN.  
A CASEMENT OR SLIDER WINDOW MINIMUMS ARE 20 INCH CLEAR  
WIDTH MINIMUM AND 41 INCH CLEAR HEIGHT MINIMUM. WITH A  
MINIMUM 5.7 SQUARE FOOT OF OPENABLE AREA.  
OPENING OF EGRESS WINDOW NOT MORE THAN 42"  
FROM THE FLOOR

ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS 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 STEEL 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 IN COMPLIANCE WITH IRC M 1505

3. CARBON MONOXIDE DETECTORS REQUIRED IRC R 315

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

5. DECK SHALL BE BUILT PER TABLES 507.2, 507.2.1, 507.3, 507.6,  
507.5.1(1)&(2), 507.5, AND 507.6

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

7. 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 N1103.2.2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE  
SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC  
N1103.2.2

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

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR  
M1507.2

18. MAKEUP AIR SYSTEM REQUIRED FOR KITCHEN 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

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 E3608.1

22. COMPLIANCE WITH THE REQUIREMENT AND SHOW CONNECTION AS  
NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR  
UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11  
AMENDED RAYMORE CODE

SUPPLEMENTAL  
REINFORCEMENT AT  
CORNERS OF OPENINGS  
AND STEP DOWNS  
REQUIRE 1 # 4 BAR 48"  
LONG AT 45 DEGREE  
ANGLE AT CORNERS,  
WITHIN 6" OF THE EDGE  
OF INSIDE CORNERS

DAMP PROOF WALLS BELOW GRADE  
SPRAY ON TAR WITHIN CODE R-406.1  
FILL ALL VIOLDS & HONEYCOMB AREAS  
BEFORE DAMPPROOFING

7.5" CONCRETE WALL WITH NO 4 BARS HORT. EVERY 18" OF WALL  
HEIGHT WITH # 4 BAR WITHIN 6" OF TOP AND BOTTOM OF WALL.  
HORT. REBAR SHALL BE INSTALLED ON SOIL SIDE OF VERTICAL  
REINFORCEMENT  
VERTICAL REBAR SHALL BE WITHIN 8" OF THE TOP OF THE WALL,  
AND POSITIONED 2" FROM THE INSIDE FACE OF WALL  
VERTICAL REBAR SPACING  
WALL HEIGHT IN FEET  
6-0 OR LESS #4 @ 24" O.C.  
8-0 # 4 @ 16" O.C.  
9-0 # 4 @ 12" O.C.  
10-0 # 4 @ 8" O.C.  
10-0 WALL 9.5" #4 @ 12" O.C.

4" DRAIN TILE IN WITH MIN 6"  
CRUSHED ROCK OVER PIPE, DRAIN TO  
DAYLIGHT, OR SUMP PUMP IN  
ACCORDANCE TO R-405

ASSUMED SOIL  
PRESSURE  
2000 P.S.F.

ALL CONCRETE EXPOSED TO  
WEATHER GARAGE SLABS  
FOOTINGS WALLS AND FLATWORK  
MUST HAVE 6% AIR ENTRAINMENT

#### PIER PADS

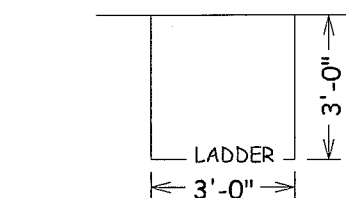
TYP. U.N.O. 3'-0 X 3'-0 X 12" PEIR PADS MIN.  
WITH # 4 REBAR, 6 EACH WAY

USE LST A24 RIDGE STRAPS  
ON ALL VAULTS AT RIDGE  
OR COLLAR TIES

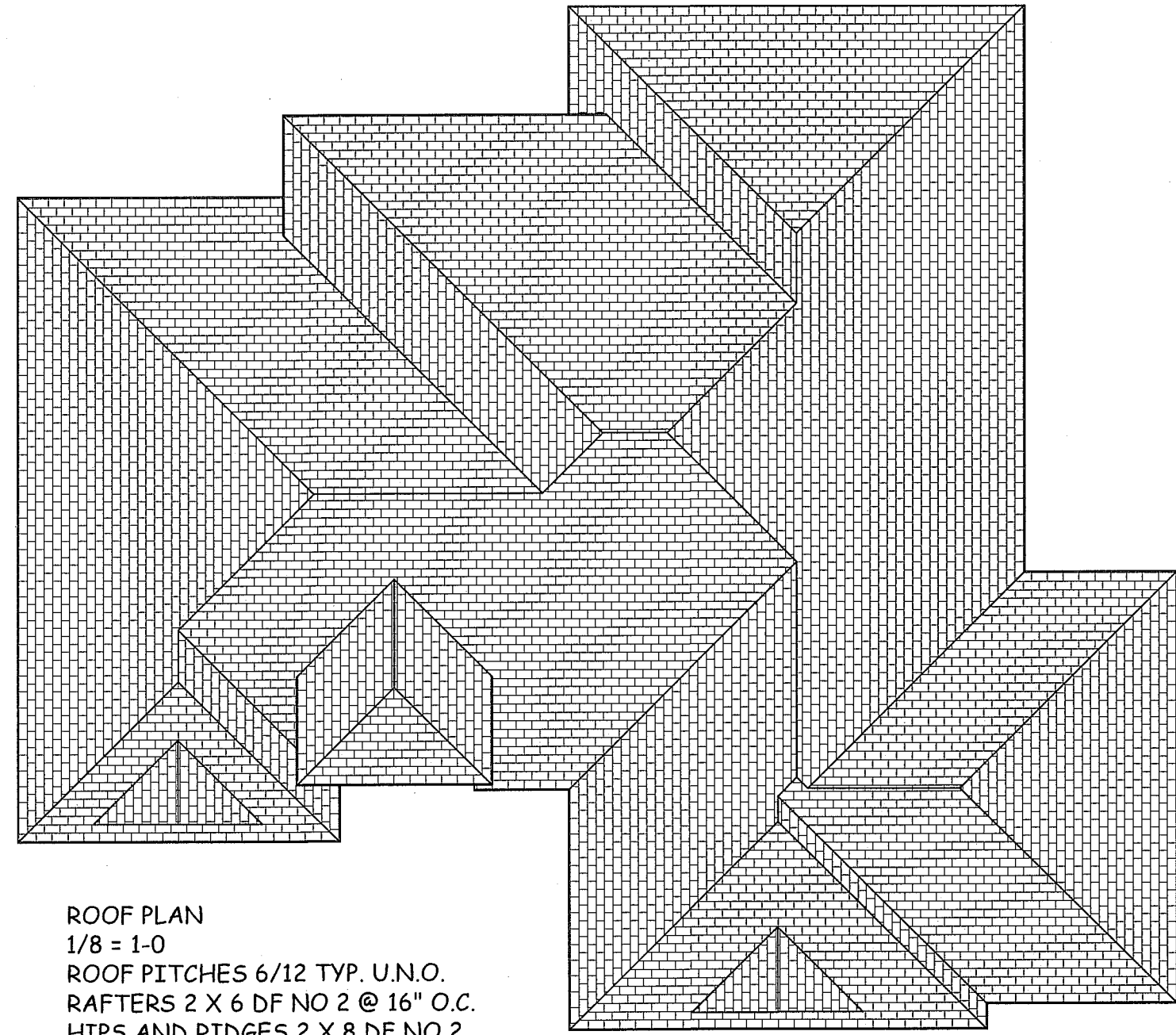
TYP VAULT WITH STRAPS

STUDS OVER 10-0 SHALL HAVE  
BLOCKING ALONG WALL MAX  
OF 6'-0 O.C.

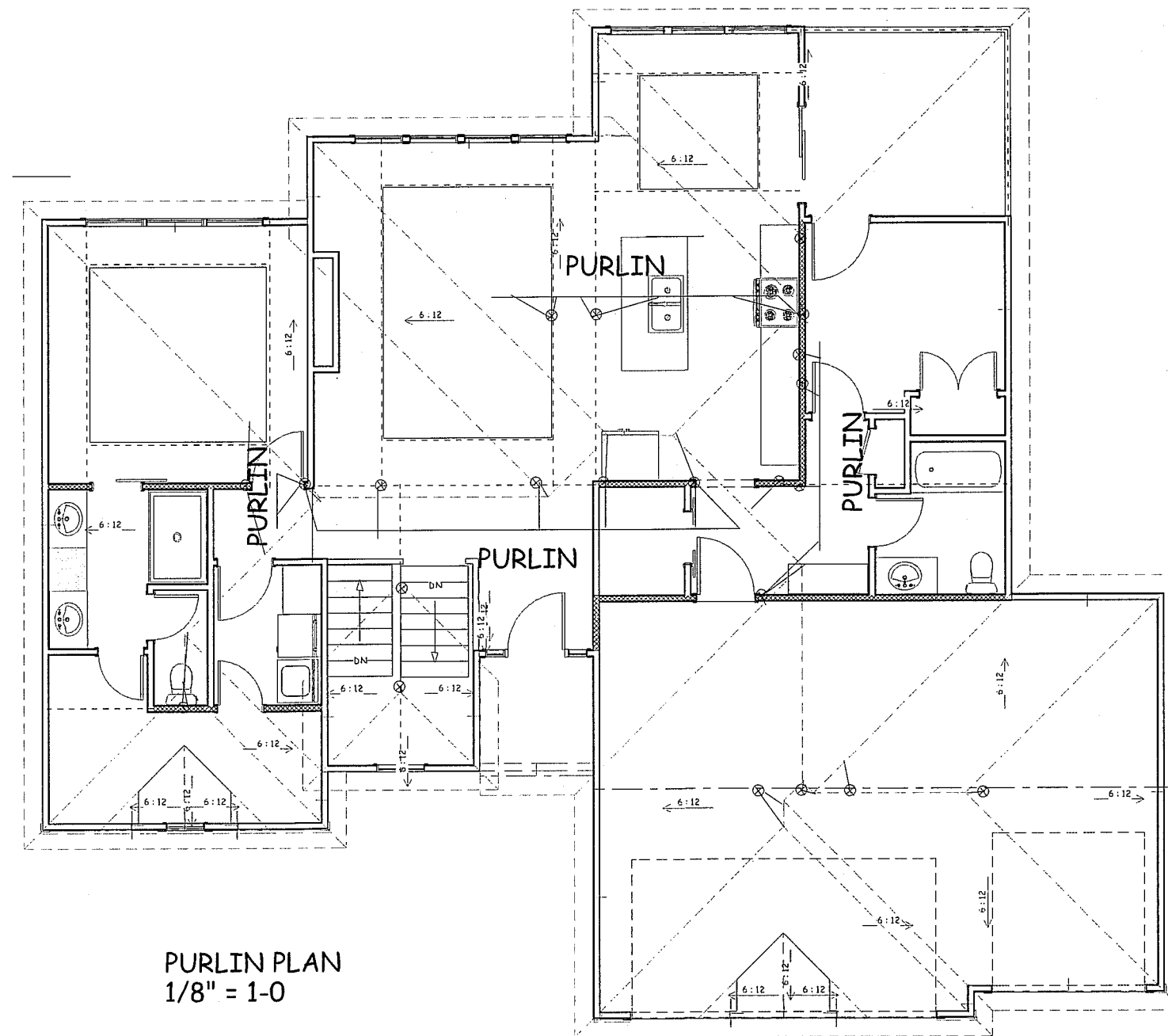
OVERHEAD GARAGE DOORS  
MUST MEET DASHA 115 MPH  
OR IRC 2018 REQUIREMENTS



EGRESS WINDOW WELL AS NEEDED  
PER SECTION 308 MIN 3'-0 X 3'-0  
WITH LADDER



ROOF PLAN  
1/8" = 1'-0  
ROOF PITCHES 6/12 TYP. U.N.O.  
RAFTERS 2 X 6 DF NO 2 @ 16" O.C.  
HIPS AND RIDGES 2 X 8 DF NO 2



PURLIN PLAN  
1/8" = 1'-0

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DATE



EXPOSURE CATEGORY B • 35-FOOT HIGH 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 <sup>a</sup> (feet)	Method LIB <sup>b</sup>	Method GB	Methods DWB, WSP, SFB, PFS, FCF, HPS, BV-WSP, ABW, PFH, PCP, CS-SFB
≤ 115		10	3.5	3.5	2.0
		20	6.5	6.5	3.5
		30	9.5	9.5	5.5
		40	12.5	12.5	7.0
		50	15.0	15.0	9.0
		60	18.0	18.0	10.5
		10	7.0	7.0	4.0
		20	12.5	12.5	7.5
		30	18.0	18.0	10.5
		40	23.5	23.5	13.5
		50	29.0	29.0	16.5
		60	34.5	34.5	20.0
		10	NP	10.0	6.0
		20	NP	18.5	11.0
		30	NP	27.0	15.5
		40	NP	35.0	20.0
		50	NP	43.0	24.5
		60	NP	51.0	29.0

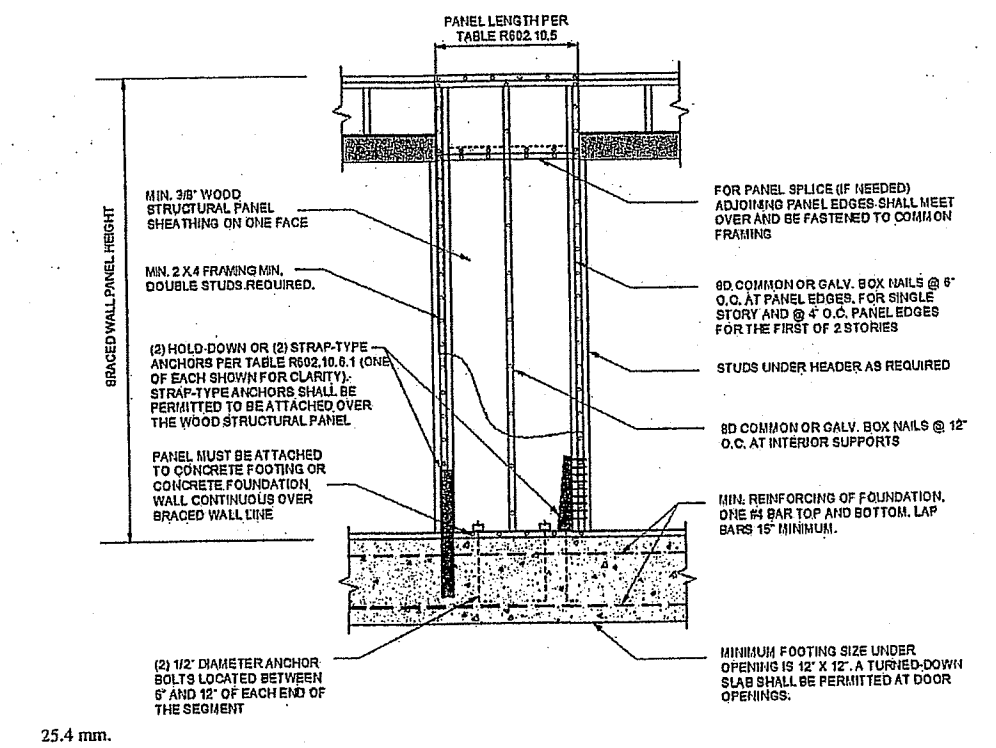


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

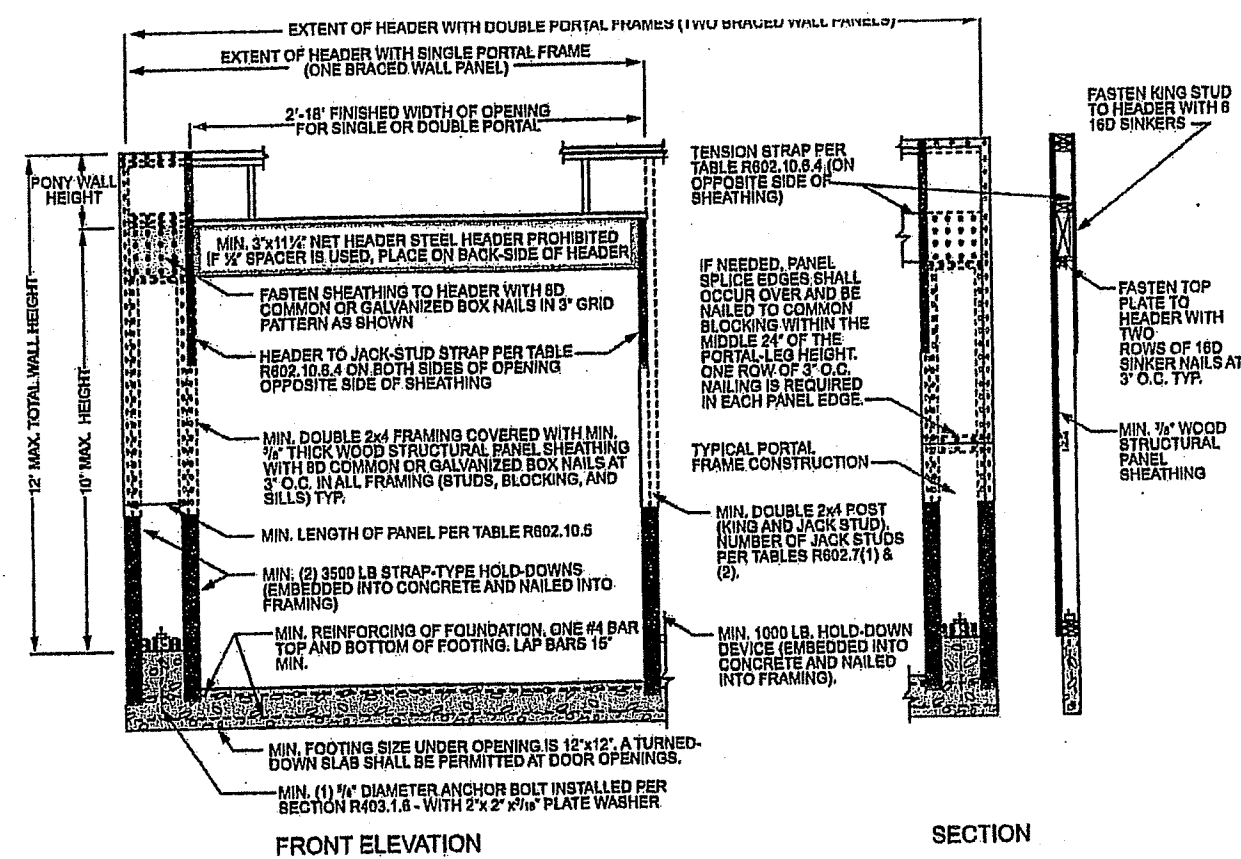


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA <sup>a</sup>
LIB Let-in-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16\" stud spacing		Fasteners: Wood: 2-8d common nails or 3-8d (2 1/2\" long x 0.113\" dia.) nails Metal strap: per manufacturer Spacing: Wood: per stud and top and bottom plates Metal: per manufacturer
DWB Diagonal wood boards	1/2\" (1\" nominal) for maximum 24\" stud spacing		2-8d (2 1/2\" long x 0.113\" dia.) nails or 2 - 1 1/4\" long staples
WSP Wood structural panel (See Section R604)	1/2\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)
BV-WSP <sup>b</sup> Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	1/8\"	See Figure R602.10.6.5	8d common (2 1/2\" x 0.131\" dia.) nails
SFB Structural fiberboard sheathing	1/2\" or 3/4\" for maximum 16\" stud spacing		1 1/2\" long x 0.12\" dia. (for 1/2\" thick sheathing) 1 1/4\" long x 0.12\" dia. (for 3/4\" thick sheathing) galvanized roofing nails
GB Gypsum board	1/2\"		Nails or screws per Table R602.3.5 for interior locations
PFS Particleboard sheathing (See Section R605)	1/2\" or 3/4\" for maximum 16\" stud spacing		For 1/2\", 6d common (2\" long x 0.113\" dia.) nails For 3/4\", 8d common (2 1/2\" long x 0.131\" dia.) nails
PCP Portland cement plaster	See Section R703.7 for maximum 16\" stud spacing		1 1/2\" long, 11 gage, 1/8\" dia. head nails or 1/4\" long, 16 gage staples
HPS Hardboard panel siding	1/8\" for maximum 16\" stud spacing		0.092\" dia., 0.225\" dia. head nails with length to accommodate 1 1/2\" penetration into studs
ABW Alternate braced wall	1/2\"		See Section R602.10.6.1

METHOD (See Table R602.10.4)	MINIMUM LENGTH <sup>a</sup> (inches)					CONTRIBUTING LENGTH (inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PFS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual <sup>b</sup>
GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual
LIB	55	62	69	NP	NP	Actual <sup>b</sup>
ABW	28	32	34	38	42	48
CS-G	24	27	30	33	36	Actual <sup>b</sup>
CS-WSP, CS-SFB	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
	92	43	37	35	35	36
	96	48	41	38	36	36
	100	—	44	40	38	36
	104	—	49	43	40	39
	108	—	54	46	43	41
	112	—	—	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 (See Table R602.10.4)	Portal header height					
	8 feet	9 feet	10 feet	11 feet	12 feet	
	Supporting roof only	16	16	16	Note c	Note c
	Supporting one story and roof	24	24	24	Note c	Note c
PFH	Supporting one story and roof	24	24	24	Note c	Note c
PFH	Supporting one story and roof	24	27	30	Note d	Note d
PFH	Supporting one story and roof	24	27	30	Note d	Note d
CS-PF	Supporting one story and roof	16	18	20	Note e	Note e
CS-PF	Supporting one story and roof	16	18	20	Note e	Note e

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

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA <sup>a</sup>
PFH Portal frame with hold-downs	1/2\"		Fasteners: See Section R602.10.6.2 Spacing: See Section R602.10.6.2
PFH Portal frame at garage	1/2\"		Fasteners: See Section R602.10.6.3 Spacing: See Section R602.10.6.3
CS-WSP Continuously sheathed wood structural panel	1/2\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)
CS-G <sup>b</sup> Continuously sheathed wood structural panel adjacent to garage openings	1/2\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)
CS-PF Continuously sheathed portal frame	1/2\"		Fasteners: See Section R602.10.6.4 Spacing: See Section R602.10.6.4
CS-SFB <sup>c</sup> Continuously sheathed structural fiberboard	1/2\" or 3/4\" for maximum 16\" stud spacing		1 1/2\" long x 0.12\" dia. (for 1/2\" thick sheathing) 1 1/4\" long x 0.12\" dia. (for 3/4\" 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/m<sup>2</sup>, 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<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
b. Applies to panels next to garage door opening where supporting gable and wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>, roof covering dead load shall not exceed 3 psf.  
c. Change 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<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>1</sub> through D<sub>3</sub> only.

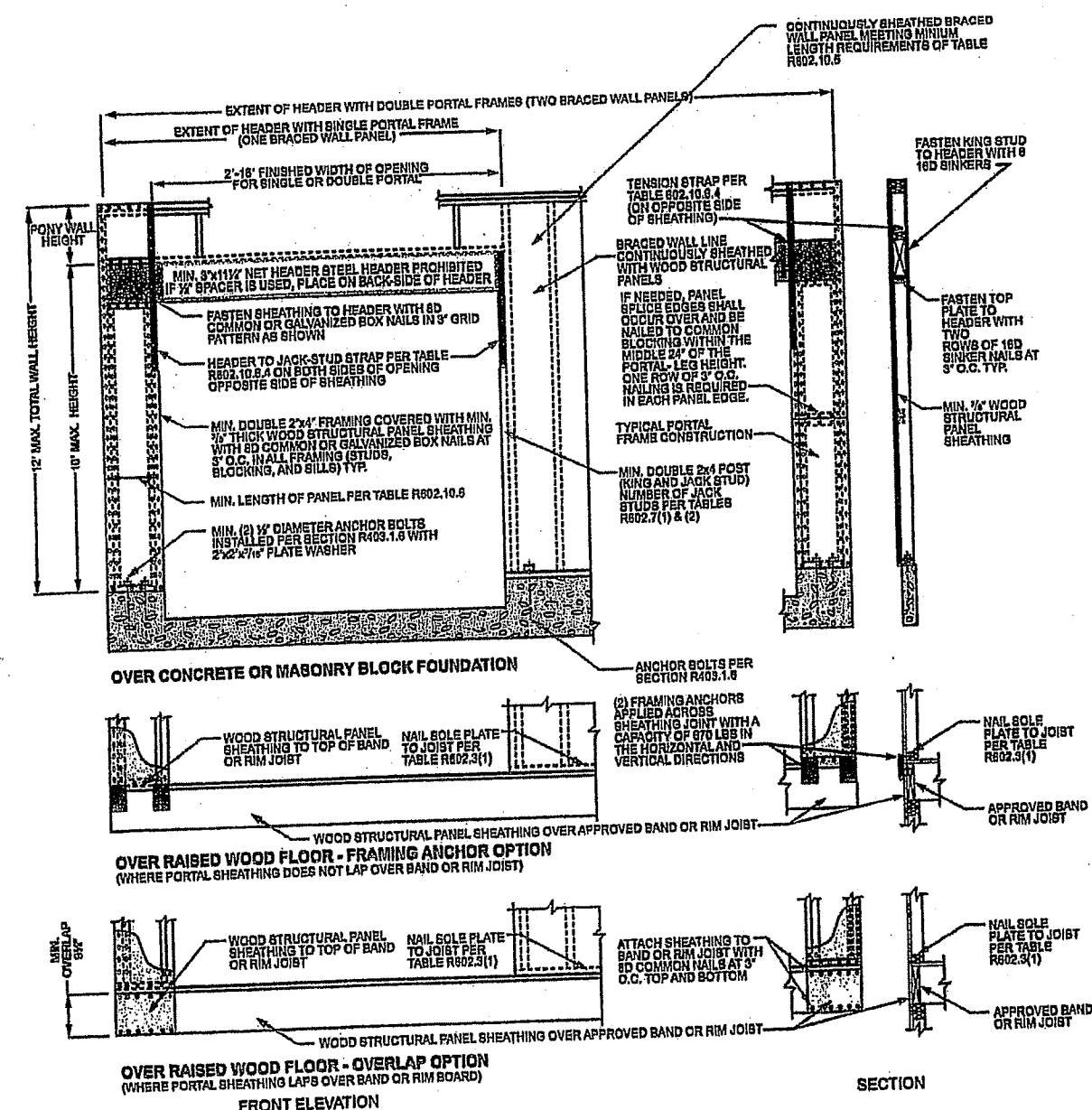


FIGURE R602.10.6.4  
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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

BUILD IN ACCORDANCE WITH  
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