

Ultima	ate Wind Speed	(mph)	12	20																		
B\	WL Designation	on	1			2	3	}	4	4	ļ	5	(3	Ī	7	{	3	()	1	0
No. o	of Floors above E	3WL	1		,	1	,	l	1	1	,	1	()	()	()	()	()
	BWP Method		CS-V	VSP	W	SP	W	SP	G	В	W	SP	W	SP	WS	SP	W	SP	G	В	W	SP
Avera	age BWL Spacin	g (ft)	2	4	2	4	1	6	2	4	3	2	1	2	1	2	25	5.5	2	4	22	1.5
Tabı	ular Requiremen	t (ft)	8.0	00	9.	40	6.	60	16.	.40	12	.20	2.	80	2.8	30	5.	10	8.4	40	4.	50
	Exposure		В	1.00	В	1.00	В	1.00	В	1.00	В	1.00	В	1.00	В	1.00	В	1.00	В	1.00	В	1.00
<u> </u>	Eave-to-Ridge H	t. (ft)	11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.05	11.50	1.09	11.50	1.09	11.50	1.09	11.50	1.09	11.50	1.09
<i>"</i>	Max. Wall Ht. ((ft)	9.00	0.95	9.00	0.95	9.00	0.95	9.00	0.95	9.00	0.95	11.00	1.05	11.00	1.05	11.00	1.05	11.00	1.05	11.00	1.05
Adjustments	No. of BWLs	1	2	1.00	2	1.00	3	1.30	3	1.30	3	1.30	2	1.00	2	1.00	3	1.30	3	1.30	3	1.30
Adjus	Omit Interior Fin	ish?	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
	Added Hold-dow	/ns?	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
	Joints Blocked	1 ?	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00	Yes	1.00
	Fasteners @ 4" o	o.c.?	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00
Requ	uired BWP Lengt	h (ft)	7.9	94	9.	33	8.	52	21.	.17	15	.75	3.	20	3.2	20	7.	59	12	.50	6.	70
	Contributing Length (ft) WSP=actual	BWP	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length	Method	Length
		1	CS-WSP	2.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	6.75	WSP	4.00
Ps		2	CS-WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	6.75	WSP	4.00
8	SFB=actual GB(ss)=0.5xactual		CS-WSP	4.00	WSP	4.00	WSP	4.00	GB (ds)	4.00	WSP	4.00	WSP	4.00	WSP	4.00						
Actu	GB(ds)=actual CS-PF=1.5xactual	4	CS-WSP	2.00	WSP	4.00			GB (ds)	4.00	WSP	4.00	WSP	4.00								
	PFG=1.5xactual PFH=4'	5							GB (ds)	4.00												
J		_							0D (I)	4.00												
	ABW=4'	6							GB (ds)	4.00												
Λ - '	ABW=4'	7	40	00	40	00	40	00			40	00	40	00	40	00		00	40	50		20
	ABW=4' tual BWP Length	7 (ft)	12.			.00		00	24.	.00		.00	16		12.			00	13		8.	
A	ABW=4' tual BWP Length .ctual ≥ Required	7 (ft)	PA	SS	PA	SS	PA	SS	24. PA	.00 SS	PA	SS	PA	SS	PA	SS	PA	SS	PA	SS	PA	SS
A B	ABW=4' tual BWP Length ctual ≥ Required BWPs ≤ 20' Apart	7 (ft) ?	PA Ye	SS es	PA Y	SS	PA Yo	SS es	24. PA	.00 SS es	PA Y	SS es	PA Y	es	PA Ye	SS	PA Y	SS	PA Yo	SS	PA Y	SS
Al B ≥	ABW=4' tual BWP Length ctual ≥ Required BWPs ≤ 20' Apart 2 Panels in BWL	7 (ft) ? ?	PA Ye	SS es es	PA Yı	es es	PA Ye	SS es es	24. PA Ye	.00 .SS es	PA Yı	es es	PA Yı	es es	PA Ye	SS es es	PA Yı	es es	PA Yo	es es	PA Yı	SS es es
A\B	ABW=4' tual BWP Length ctual ≥ Required BWPs ≤ 20' Apart	7 (ft) ? ?	PA Ye	SS es	PA Yı	SS	PA Ye	SS es	24. PA Ye	.00 SS es	PA Yı	SS es	PA Yı	es	PA Ye	SS	PA Yı	SS	PA Yo	SS	PA Yı	SS
Al B ≥ BV	ABW=4' tual BWP Length ctual ≥ Required BWPs ≤ 20' Apart 2 Panels in BWL WP 10' from End	7 (ft) ? ? ? s?	PA Ye Ye	es es End 2	PA Y Y Y End 1 NA	es es es	PA Ye Ye Ye End 1 NA	SS es es es	24. PA Ye	.00 .SS es es	PA Yo Yo	SS es es es	PA Ye Ye	es es es	PA Ye Ye Ye End 1 NA	SS es es	PA Ye Ye Ye End 1 NA	es es es	PA Ye Ye Ye End 1 NA	SS es es	PA Yı Yı	SS es es es

INDICATES BRACED WALL PANEL

WALL BRACING METHOD CS-WSP

CONNECTION CRITERIA SHALL HAVE 6d COMMON (2"XO.II3") NAILS AT 6" SPACING(PANEL EDGES) AND AT 12" FIELD SPACING OR 16 ga. x I 3/4" STAPLES: AT 3" EDGE SPACING AND 6" FIELD SPACING. REQUIRES 24" RETURN WALL OR 800 LB HOLD-DOWN CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK.

WALL BRACING METHOD GB

NAILS AT 1" O.C. SPACING AT PANEL EDGES
NAILS TO BE 13 GAGE, I 3/8" LONG, 19/64" HEAD; O.098 DIAMETER, I 1/4" LONG, ANNULAR-RINGED
5D COOLER NAIL, O.086" DIAMETER I 5/8" LONG, 15/64 HEAD; OR GYPSUM BOARD NAIL O.0915
DIAMETER I 5/8" LONG, 9/32" HEAD
IF ADJUSTMENT FACTOR IS USED BRACED WALL PANEL MUST HAVE ATTACHMENTS 9 4" O.C.
AT PANEL EDGES INCLUDING TOP AND BOTTOM PLATES, AND ALL HORIZONTAL JOINTS BLOCKED.

WALL BRACING METHOD CS-PF

CONNECTION CRITERIA SHALL HAVE 6d COMMON (2"XO.113") NAILS AT 6" SPACING(PANEL EDGES)
AND AT 12" FIELD SPACING OR 16 ga. x I 3/4" STAPLES: AT 3" EDGE SPACING
AND 6" FIELD SPACING. REQUIRES 24" RETURN WALL OR 800 LB HOLD-DOWN
CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK. CANNOT BE USED WITH STEEL BEAM HEADER.

WALL BRACING METHOD WSP

CONNECTION CRITERIA SHALL HAVE 6d COMMON (2"XO.113") NAILS AT 6" SPACING (PANEL EDGES) AND AT 12" FIELD SPACING OR 16 ga. x | 3/4" STAPLES: AT 3" EDGE SPACING AND 6" FIELD SPACING.
CONTINUOUS SHEATHING TO BE MINIMUM 3/8" THICK.

FENTRESS HOME DESIGN
RESIDENTIAL PLANS / ADDITIONS
Virginia beach, Virginia
OFFICE
(757) 438-5053

| drawn by: BCF | PROPOSED TWO STORY BRICK & FRAME | Sheet | A-4 of 6 |
SINGLE FAMILY DWELLING | prepared for:
Host Residence | file no. 21-42121



FENTRESS HOME DESIGN drawn by: BCF RESIDENTIAL PLANS / ADDITIONS date: 4/21/21 virginia beach, virginia OFFICE (757) 438-5053

scale: NOTED

PROPOSED TWO STORY BRICK & FRAME A-5 of 6

SINGLE FAMILY DWELLING prepared for:

Host Residence HOST RESIDENCE

file no. 21-42121

CODE DESIGN GUIDELINES
DESIGN AND CONSTRUCTION BASED ON 2015 INTERNATIONAL RESIDENTIAL CODE
WITH THE VIRGINIA UNIFORM BUILDING CODE "USBC" 2015 EDITION AMENDMENTS WITH THE VIRGINIA UNIFORM BUILDING CODE "USBC" 2015 EDITION AMENDMENTS

DESIGN LOADS (LIVE & DEAD LOADS)
ASSUMED UNDISTURBED BEARING SOIL - 1500 P.S.F. FIELD VERIFY BY CONTRACTOR
FLOOR (SLEEPING ROOM & UNFINISHED ATTIC WITH STAIRS) 30 P.S.F. LIVE, 10 P.S.F. DEAD
FLOOR (NON-SLEEPING ROOMS) 40 P.S.F. LIVE, 20 P.S.F. DEAD
ATTIC CEILING UNDER ROOF SLOPE (3/12 - 10 P.S.F. LIVE, 10 P.S.F. DEAD
ATTIC CEILING OVER ROOF SLOPE (3/12 - 20 P.S.F. LIVE, 10 P.S.F. DEAD
ROOF - 20 P.S.F. LIVE, 10 P.S.F. DEAD
WIND SPPED - 120 VULT 89/93 VASD MPH (WIND SPEED GOVERNS OVER SEISMIC U.O.N.)
AS PER TABLE 301.2.1. AND FIGURE R 301.2(4)A
EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED AS PER TABLES R301.2(2) & R301.2(3)
SEISMIC IS PER THE 2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLING WITH VIRGINIA AMENDMENTS.

WIND EXPOSURE CATEGORY B
GROUND SNOW LOAD
IO P.S.F.
WEATHERING AREA AS PER FIG. R301.2(3)
MODERATE
1 INCHES
FROST LINE DEPTH
1 INCHES
MODERATE TO HEAVY
MODERATE TO SEVERE
WINTER DESIGN TEMP.
DECAY AREA AS PER FIG. 301.2(1)
MODERATE TO SEVERE
WINTER DESIGN TEMP.
1 ICE AND WATER SHIELD UNDERLAYMENT REQUIRED ON ALL ROOF SLOPES 4/12 OR LESS INSTALLED OVER INTIRE ROOF SURFACE OR 2 LAYERS OF UNDERLAYMENT

FOOTING & FOUNDATION NOTES
WITH A LINE DRAWN 5'-O" OUTSIDE THE BUILDING PERIMETER, EXCAVATE A
MINIMUM OF O'-6" OF EXISTING MATERIAL INCLUDING ALL ORGANIC, ROOTS,
DEBRIS, RUBBLE, AND ALL SOFT WET SOIL IN WOODED AREAS. EXCAVATE ALL
STUMPS AND ROOT STRUCTURE, AND COMPACT BASE MATERIAL.
CARE SHALL BE EXERCISED DURING THE GRADING OPERATIONS AT THE
SITE. COMBINATIONS OF EXCESS SURFACE MOISTURE FROM PRECIPITATION
AND THE TRAFFIC OF ANY HEAVY CONSTRUCTION EQUIPMENT INCLUDING
HEAVY COMPACTION EQUIPMENT.
ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-415,
GRADE 40 SPECIFICATIONS, EXCEPT STIRRUPS AND TIES, WHICH SHALL BE
GRADE 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185,
CONCRETE PROTECTION FOR REINFORCING AS WELL AS PLACING AND
FABRICATION OF REINFORCING SHALL BE IN ACCORDANCE WITH THE
"AMERICAN CONCRETE INSTITUTE BUILDING ZONE REQUIREMENTS" (ACI-318-11).
PIER HEIGHT OVER 32" HIGH SHALL BE SOLID FILLED WITH MORTAR.
FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS.
HOLLOW PIERS SHALL BE CAPPED WITH 4" OF SOLID MASONRY OR CONCRETE,
A MASONRY CAP BLOCK, OR SHALL HAVE CAVITIES OF TOP COURSE FILLED WITH
OF 3500 P.S.I. ALL OTHER CONCRETE-3000 P.S.I.
BOTTOM OF CONCRETE FOOTINGS SHALL BE ON UNDISTURBED
SOIL 12-INCHES BELOW GRADE. FOOTINGS SHALL BE ON UNDISTURBED
SOIL 12-INCHES BELOW GRADE. FOOTINGS SHALL BE ON UNDISTURBED SOIL.
ALL FOOTINGS SHALL BEAR ON UNDISTURBED BEARING SOIL BELOW LOCAL
FROST LINES.
EXACT QUANTITIES OF FOUNDATION BLOCK REQUIRED MAY VARY FROM THE ALL FOOTINGS SHALL BEAR ON UNDISTURBED BEARING SOIL BELOW LOCAL FROST LINES.
EXACT QUANTITIES OF FOUNDATION BLOCK REQUIRED MAY VARY FROM THE TYPICAL DETAIL SECTIONS SHOWN ON THIS PLAN, DUE TO EXACT FINISH FLOOR ELEVATION SET BY ENGINEER FOR THIS PROJECT AND THE EXISTING SOIL CONDITIONS ENCOUNTERED IN THE PROCESS OF FOUNDATION EXCAVATION.
ALL UTILITIES THAT CROSS FOOTINGS MUST PASS ABOVE FOOTINGS
CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE WITH ASTM C-90
MORTAR TO CONFORM TO ASTM C-210. TYPE "S" BELOW GRADE, TYPE "N" ABOVE GRADE
CONCRETE SLABS OF LIVING AREAS TO BE 4" THICK FIBER REINFORCED CONCRETE OVER 6 MIL. POLY OVER COMPACTED SOLID FILL. PROVIDE CONTROL JOINTS AS REQUIRED.
PROVIDE R-10 RIGID INSULATION 2'-O" WIDE AROUND PERIMETER.

GENERAL FRAMING
WOOD DECKS TO COMPLY WITH SECTION R501
ALL LUMBER TO BE SOUTHERN YELLOW PINE #2, SPRUCE-PINE-FIR #2 OR BETTER
FRAMING UNLESS OTHERWISE NOTED. UTILITY GRADE LUMBER NOT ACCEPTABLE.
STEEL BEAMS TO HAVE MINM (4) 2X4 JACK STUD SUPPORT UNDER EACH END UNLESS
OTHERWISE NOTED.
LAMINATED STRUCTURAL BEAMS MUST HAVE (3) 2X4 JACK STUD SUPPORT UNDER EACH
END UNLESS OTHERWISE NOTED.
MASONRY LNTELS
5A. FOR SPANS UP TO 6'-O" USE 3 1/2" X 3 1/2" X 1/4" STEEL ANGLES
EXCEPT STANDARD PRESSED STEEL ANGLES 3 1/2" X 3 1/2" X 1/4" MAY BE USED
FOR FIREPLACE OPENINGS AS FOLLOWS:
1. IO' BRICK OR STONE MAX. SPAN 36"
2. 6' BRICK OR STONE MAX. SPAN 48"
3. 30" BRICK OR STONE MAX. SPAN 12"
5B. FOR SPAN FROM 6' TO 8' USE 5" X 3 1/2" X 5/16"

2. 6' BRICK OR STONE MAX. SPAN 48"
3. 30" BRICK OR STONE MAX. SPAN 12"
5B. FOR SPAN FROM 6' TO 8' USE 5" X 3 1/2" X 5/16"
6. ALL BRICK OVER LOWER ROOFS TO HAVE ANGLE SECURELY SUPPORTED FROM BELOW
1. ALL ENGINEERED FLOOR JOISTS AND TRUSSES MUNT BE BRACED IN ACCORDANCE
W/ MANUFACTURERES SPECIFICATIONS.
8. ALL RAFTER BRACING TO HAVE (2) STUDS FROM PLATE TO FOUNDATION OR SUPPORTING
BEAM BELOW ® ALL FLOORS. BRACING MUST TRANSFER FROM PLATE TO STUDS
TO FOUNDATION TO FOOTING.
9. IF WALL PARTITIONS FALL BETWEEN FLOOR FRAMING 2X4 LADDERS ® 16" O.C. MUST BE
PLACED ® 16" O.C. PERPENDICULAR THE THE FRAMING MEMBER TO SUPPORT
PYWOOD DECKING ABOVE.
10. OPEN WEB FLOOR TRUSSES MUST HAVE SINGLE LINE OF 2X4'S NAILED TO DIAGONAL
OR VERTICAL MEMBERS IN APPROPRAITE MID SPAN AS A LOAD DISTRIBUTION MEMBER.
CEILING JOISTS PARRALLEL TO EXTERIOR WALL WITH RAFTERS BEARING ON STUDS MUST
HAVE STUB JOISTS FROM EXTERIOR DOUBLE WALL PLATE BACK TO CEILING JOIST
AS BRACE FOR CEILING JOIST.
12. ALL HEADER TO BE DESIGNED AS PER TABLE R602.1(1)-R602.1(3) OF THE
2015 INTERNATIONAL RESIDENTIAL CODE WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE
"USBC" (2015 EDITION)
13. ALL SHEATHING APA RATED WOOD STRUCTURAL PANELS (R602.10) AS FOLLOWS
GRADE
NOMINAL THICKNESS
13A. ROOF: 0.S.B. 1/2"

13A. ROOF:

ISA. ROOF: O.S.B. 1/2"

WALL: O.S.B. 1/2"

INSTALL ALL SHEATHING IN ACCORDANCE W/ TABLE R602.IO.5 AND R602.3(3)

14. ALL FLOOR AND WALL FRAMING TO BE CAPABLE OF TRANSMITTING ALL IMPOSED LOADS

TO THE SUPPORTING ELEMENTS DOWN TO THE FOUNDATION.

15. GABLE END WALL FRAMING TO HAVE 2X6 FRAMING SPACED © 16" O.C.

16. STUD SIZE, HEIGHT SPACING AS PER SECTION R602.3.1 MUST BE IN ACCORDANCE WITH TABLE R602.3(5). BALLOON FRAMED WALL MUST BE DESIGNED AND SEALED BY RDP AND NOT PRESCRITIVE.

11. LOAD BEARING INTERIOR WALLS TO BE CONSTRUCTED, FRAMED ¢ FIRE BLOCKED AS PER EXTERIOR WALLS (R602.4).

18. FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING FURRED SPACES. ALSO VERTICALLY AT CEILING AND FLOOR LEVELS AND HORIZONTALLY NOT EXCEEDING IO FEET. (2) AT ALL INTERSECTIONS BETWEEN CONCEALED VERTICAL ¢ HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS, AND COVE CELINGS. (3) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT TOP AND BOTTOM OF RUN. (4) AT OPENINGS AROUND VENTS, PIPES, AND DUCTS AT CEILING AND FLOOR LEVEL, WITH APPROVED PRODUCT TO RESIST THE PASSAGE OF FLAME ¢ PRODUCTS OF COMBUSTION. (5) FIREBLOCKING OF CHIMNEYS AND FIREPLACES SHALL BE PER RIOO3.19

19. ALL FASTENERS USED W/ PRESSURE TREATED LUMBER TO BE HOT DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER

20. ALL FLOOR JOIST AND GIRDER SPANS SHALL BE IN ACCORDANCE WITH TABLES R502.3.1(1), R502.3.1(2), R502.3.3(1)-(2), R502.5, SECTIONS R502.4 ¢ R502.10, TABLE R602.3(1)-(2) JOIST HANGERS

21. ALL FRASTENERS TO BE INSTANCED IN ACCORDANCE WITH TABLES R602.3(1)-(2) JOIST HANGERS

22. ALL FRASTENERS TO BE INSTANLED IN ACCORDANCE WITH TABLES R602.3(1)-(2) JOIST HANGERS

23. ALL FRASTENERS TO BE INSTALLED IN ACCORDANCE WITH TABLES R602.3(1)-(2) JOIST HANGERS

MISCELLANEOUS CODE INFORMATION.

I. CONTRACTOR TO HAVE ALI ALL UITLITIES LOCATED PRIOR TO EXCAVATION

QUARDRAILS REQUIRED ON PORCHES BALCONIES (RAISED FLOOR SURFACES) GREWATER THAN 30° MEASURED VERTICALLY FROM FLOOR ON GRADE (BELOW AT ANY POINT 36° HORIZONTALLY TO THE EDGE OF OPENING, EXTERIOR AND INTERIOR RAILINGS TO BE MINIMUM 36° HIGH, BEARING 200 LBS AND NOT ABLE TO ALLOW A SPHERE GREATER THAN 3 1/8° DIAMPETER TO PASS THRU.

J. LADDER EFFECT RAILS NOT PERMITTED, HANDRAIL GRIP SIZE AS PER CODE SECTION R3II.1.8.3 OF INTERNATIONAL RESIDENTIAL CODE 2015.

LEGRESS WINDOWS AS PER SECTION R3IO.

SECOND LEVYEL AND ABOVE MINIMUM () 5.1 SO.FT. CLEAR OPENING FLOOR SECOND LEVYEL AND ABOVE MINIMUM () 5.7 SO.FT. CLEAR OPENING FLOOR STAIR RAILINGS SESSION STAIR AS A HEAVE THE FLOOR MUST HAVE SAFETY GLAZING INTERIOR GARAGE WALL TO HAVE MIN. 1/2" GYPSUM BOARD CLINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 5/8" TYPE X GWB.

G. CELINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 5/8" TYPE X GWB.

G. ECRINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 5/8" TYPE X GWB.

G. ECRINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 5/8" TYPE X GWB.

G. ECRINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 5/8" TYPE X GWB.

G. ECRINGS BELOW HABITABLE SPRACE MUST HAVE MIN. 1/2" GYPSUM BOARD.

I.D. EXHAUST FAN VENTILATION MUST HAVE MIN. 1/2" GYPSUM BOARD.

II.D. EXHAUST FAN VENTILATION MUST DISCHARGE TO OUTSIDE II. ELECTRICAL WRING MUST COMPLY W. APPLICABLE CODES AND STANDARDS.

II.C. CORROSION RESISTIVE FLASHING REQUIRED PALL ALLEYS AND ROOF WALL INTERSECTIONS AS PER SECTION R3034

G. SELINGS BELOW FLASHING REQUIRED AT "HAZARDOUS LOCATION" AS PER SECTION R308.4

II.S. PERCALTY CLAZING CALCULATIONS IF REQUIRED BY ALL ACLIETS AND ROOF WALL MINIMAL PRIOL WALLEYS AND ROOF WALL MINIMAL PRIOL WALLEYS AND ROOF WALL MINIMAL PRIOL WALLEYS AND ROOF WALLEYS AND ROOF WALL MINIMAL PRIOL WALLEYS AND ROOF WALLE

R802.5.2 Ceiling joist and rafter connections. Where ceiling joists run parallel to rafters, they shall be connected to rafters at the top wall plate in accordance with Table R802.5.2. Where ceiling joists are not connected to the rafters at the top wall plate, they shall be installed in the bottom third of the rafter height in accordance with Figure R802.4.5 and Table R802.5.2. Where the ceiling joists are installed above the bottom third of the rafter height, the ridge shall be designed as a beam. Where ceiling joists do not run parallel to rafters, the ceiling joists shall be connected to top plates in accordance with Table R602.3(1). Each rafter shall be tied across the structure with a rafter tie or a 2-inch by 4-inch (51 mm by 102 mm) kicker con-

nected to the ceiling diaphragm with nails equivalent in capacity to Table R802.5.2. R802.4.6 Collar ties. Where collar ties are used to connect opposing rafters, they shall be located in the upper third of the attic space and fastened in accordance with Table R602.3(1). Collar ties shall be not less than 1 inch by 4 inches (25 mm by 102 mm) nominal, spaced not more than 4 feet (1219 mm) on center. Ridge straps in accordance with Table R602.3(1) shall be permitted to replace

collar ties.

R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and

R312.2.1 Window sills. In dwelling units, where the top of the sill of an operable window opening is located less than 18 inches (457 mm) above the finished floor and greater than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:

1. Operable windows with openings that will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.

2. Operable windows that are provided with window fall prevention devices that comply with ASTM

3. Operable windows that are provided with window opening control devices that comply with Section GENERAL NOTES

ALL EXTERIOR DOORS AND WINDOW UNITS SHALL BE IN ACCORDANCE WITH INTERNATIONAL RESIDENTIAL CODE CONCERNING INGRESS AND EGRESS AND THE CURRENT ENERGY CODE SPECIFICATIONS.

ALL ELECTRICAL AND MECHANICAL WORK IS TO BE DONE IN ACCORDANCE WITH THE BUILDING CODES AND SPECIFICATIONS AND SHALL CONFORM TO STANDARD CONSTRUCTION PRACTICES IN THEIR TRADES.

MECHANICAL H.V.A.C. PLAN IS NOT INCLUDED IN THIS SET OF PLANS, THE MECHANICAL CONTRACTOR SHALL PROVIDE SUCH PLANS & SPECIFICATIONS AS REQUIRED TO OBTAIN THE REQUIRED PERMITS FOR ALL H.V.A.C. WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THIS PLAN PRIOR TO CONSTRUCTION. RECHANGAL CONTRACTOR SHALL PROVIDE SIJCH PLANS I SPECIFICATIONS
AS REQUIRED TO OBTAIN THE REQUIRED PERMITS FOR ALL HY.A.C. WORK.
THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR ALL HY.A.C. WORK.
THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR ALL HY.A.C. WORK.
THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE CONSTEUCTION WORK ON THIS PROJECT PRIOR TO ANY CONSTRUCTION WORK
BEING DONE. A PERMIT SHALL BE ISSUED BY THE BUILDING INSPECTIONS
DEBRAT HEAT OF THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE CONSTEUCTION WORK ON THIS PROJECT PRIOR THE CONSTRUCTION PROJECT.

POSSIBLE CONFLICTS WITH FRAMING PLAN
ALL STRUCTURAL STEEL SHALL BE ASSUED BY THE BUILDING INSPECTIONS
DEBRAT HEAT OF THE CONTRACTOR OF THE GOOD THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURAL STEEL SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURAL STEEL SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURAL STEEL SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURAL STEEL SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURAL STRUCTURE STEEL SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL STRUCTURE SHALL BE ASTM A-34 AND OF LEAST THE SIZES
SHOWN ON THE PLAN
ALL WOOD TRUSSES, IF ANY SHALL BE CERTIFIED BY THE TRUSS HANLFACTURE TO HAVE THE CAPABEL CODES
ALL WOOD TRUSSES, IF ANY SHALL BE CERTIFIED BY THE TRUSS HANLFACTURE TO HAVE THE CAPABEL CODES
SHOWN ON THE PROPERT TO THE SHOWN OF THE SECONDARY
ALL WOOD TRUSSES, IF ANY SHALL BE CERTIFIED BY THE TRUSS HALL

MINIMUM BEARING TO BE I JUZ ON WOOD AND 3" ON MASONEY

MICLUMINE, TUDOR SHALL SHOWN ON WOOD AND 3" ON MASONEY

MICLUMINE, TUDOR SHALL SHOWN ON WOOD AND 3" ON MASONEY

MICLUMINE, TUDOR SHALL SHOWN ON WOOD AND 3" ON MASONEY

MICLUMINE, TUDOR SHALL SH

GENERAL FRAMING

FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH AND SHALL
BE INSTALLED TO PREVENT WATER FROM RE-ENTERING THE EXTERIOR WALL ENVELOPE.
LOCATIONS:
AT THE TOP OF ALL EXTERIOR WINDOW AND DOOR OPENINGS.
AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR
STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
UNDER AND ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY
OR WOOD FRAME CONSTRUCTION.
AT WALL AND ROOF INTERSECTIONS.
AT BUILT-IN GUTTERS.
FIREBLOCKING.

FIREBLOCKING
FIREBLOCKING SHALL BE PROVIDED TO CUT OFF
ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL
AND HORIZONTAL) AND TO FORM AN EFFECTIVE
FIRE BARRIER BETWEEN STORIES, AND BETWEEN A
TOP STORY AND THE ROOF SPACE. FIREBLOCKING
SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION
IN THE FOLLOWING LOCATIONS.
IN ALL CONCEALED SPACES OF STUD WALLS AND
PARTITIONS, INCLUDING FURRED SPACES AND PARRALLEL
ROWS OF STUDS OR STAGGERED STUDS; AS FOLLOWS:

1.1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
1.2. HORIZONTALLY AT INTERVALS NOT EXCEEDING IO FEET.
AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL
AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP
CEILINGS AND COVE CEILINGS.
IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE
TOP AND BOTTOM OF RUN. ENCLOSED SPACES UNDER STAIRS
SHALL COMPLY WITH SECTION R311.2.2.
AT OPENINGS AROUND VENTS, PIPES, AND DUCTS AT CEILING
AND FLOOR LEVEL, WITH APPROVED MATERIAL TO RESIST THE
FREE PASSAGE OF FLAME AND PRODUSCTS OF COMBUSTION.
FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE
SECTION RIOOLIG.

SECTION RIOOI.16. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLINGIS REQUIRED AT THE LINE OF THE DWELLING UNIT SEPERATION

ROOF CONSTRUCTION

ALL LUMBER TO BE SOUTHERN YELLOW PINE #2, SPRUCE-PINE-FIR #2 OR BETTER FRAMING UNLESS OTHERWISE NOTED. UTILITY GRADE LUMBER NOT ACCEPTABLE.

COLLAR TIES TO BE 2X4 9 32" O.C. AT ALL RIDGES \$ AS REQUIRED BY TABLE R602.3(I), R802.3.I \$ TABLE R606.2.3(I)

(3) COLLAR TIES MINIMUM 9 ALL RIDGES, 2 TIES MAY BE PUT ON ONE RAFTER BRACES TO BE (2) 2X4 NAILED W/ I6d NAILS 9 9" O.C. VERTICALLY FROM TOP TO BOTTOM. BRACES 8'-O" OR LONGER MUST BE BRACED HORIZONTALLT 9 4'-O" O.C.

ALL HIPS, VALLEYS AND RIDGES TO BE SIZED SO ALL RAFTERS BEAR FULLY ON RIDGE BOARD RAFTER BRACES TO BE SPACED MAXIMUN 4'-O" O.C.

ROOF TRUSSES MUST BE BUILT \$ INSTALLED TO MANUFACTURERS SPECIFICATIONS HURRICANE STRAPS AT ALL RAFTERS AS REQUIRED BY CODES

ROOF SHEATHING TO BE 1/2" O.S.B. \$ SHALL CONFORM TO SECTION R803

RAFTER SIZE PER SECTION R802.4 SHALL BE IN ACCORDANCE W/ TABLES R802.4(I) \$ R802.4(2) C.C.G. JSTS. SIZE PER SECTION R802.5 SHALL BE IN ACCORDANCE W/ TABLES R802.5.1(II) TRHU R802.5.1(II)

CLG. JSTS. SIZE PER SECTION R802.5 SHALL BE IN ACCORDANCE W/ 100 LECTION R802.5.1(9)
RAFTER AND CEILING JOIST ENDS MUST BEAR ON MIN. I 1/2" WOOD OR METAL \$ MIN. 3"
ON MASONRY OR CONCRETE

TABLE R602.7(2

HEADERS AND		BUILDING WIDTH ^c (leet)									
GIRDERS SUPPORTING	SIZE	1:		2	4	36					
SUPPORTING		Span*	NJ ^d	Span*	NJd	Span*	NJ⁵				
	2-2 × 4	4-1	1	2-10	1	2-4	1				
	2-2 × 6	6-1	1	4-4	1	3-6	1				
	2-2 × 8	7-9	1	5-5	1	4-5	2				
	2-2 × 10	9-2	1	6-6	2	5-3	2				
	2-2 x 12	10-9	ı	7-7	2	6-3	2				
One floor only	3-2×8	9-8	ı	6-10	1	5-7	1				
	3-2 × 10	11-5	1	8-1	1	6-7	2				
	3-2 × 12	13-6	ı	9-6	2	7-9	2				
	4-2 × 8	11-2	1	7-11	1	6-5	ı				
	4-2 × 10	13-3	1	9-4	ı	7-8	l				
	4-2 × 12	15-7	1	11-0	ı	9-0	2				
	2-2 × 4	2-7	1	1-11	1	1-7	1				
	2-2×6	3-11	1	2-11	2	2-5	2				
	2-2 × 8	5-0	1	3-8	2	3-1	2				
	2-2 × 10	5-11	2	4-4	2	3-7	2				
	2-2 × 12	6-11	2	5-2	2	4-3	3				
Two floors	3-2 × 8	6-3	1	4-7	2	3-10	2				
	3-2 × 10	7-5	1	5-6	2	4-6	2				
	3-2 × 12	8-8	2	6-5	2	5-4	2				
	4-2 × 8	7-2	1	5-4	1	4-5	2				
	4-2 × 10	8-6	1	6-4	2	5-3	2				

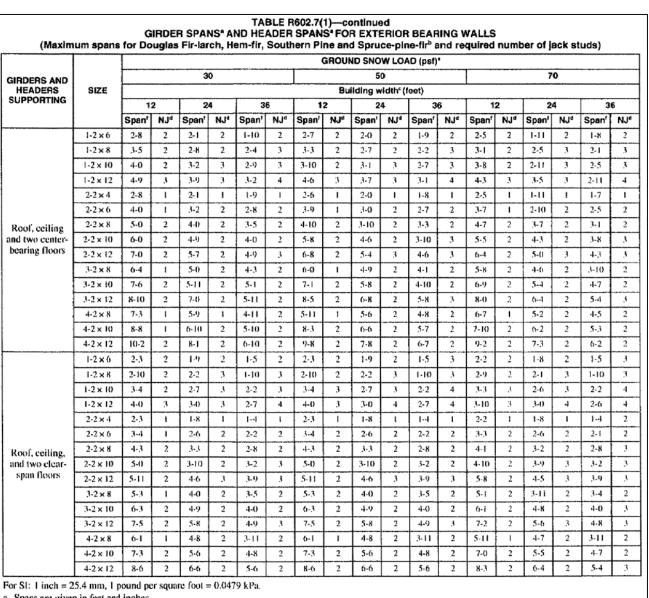
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. . Spans are given in feet and inches. . Spans are based on the minimum design properties for No. 2 grade lumber of Douglas Fir-Larch, Hem-Fir, Southern Pine, and Spruce-Pine Fir. . Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.

. NJ = Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by a approved framing anchor attached to the full-height wall stud and to the header. . Spans are calculated assuming the top of the header or girder is laterally braced by perpendicular framing. Where the top of the header or girder is not laterally braced (e.g., cripple studs bearing on the header), tabulated spans for headers consisting of 2×8 , 2×10 , or 2×12 sizes shall be multiplied by 0.70 or the

L			SUPPORT	ING ROOF					
SIZE		30		50	7	0	SUPPORTING FLOOR		
[DEPTH OF F	ORCH° (feet)		~	1		
	8	14	8	14	8	14	8	14	
2-2 × 6	7-6	5-8	6-2	4-8	5-4	4-0	6-4	4-9	
2-2 × 8	10-1	7-7	8-3	6-2	7-1	5-4	8-5	6-4	
2-2 × 10	12-4	9-4	10-1	7-7	8-9	6-7	10-4	7-9	
-2 × 12	14-4	10-10	11-8	8-10	10-1	7-8	11-11	9-0	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa. Spans are given in feet and inches. b. Tabulated values assume #2 grade lumber, wet service and incising for refractory species. Use 30 psf ground snow load for cases in which ground snow load is less than 30 psf and the roof live load is equal to or less than 20 psf. e. Porch depth is measured horizontally from building face to centerline of the header. For depths between those shown, spans are permitted to be interpolated

		T							SPOUR	ID SNO	WIO	D/not	•						
				3	0			, 	GROOF	1D SNO		(per)		Τ			0		
GIRDERS AND HEADERS SUPPORTING	SIZE								Bul			eet)		70					
	O.L.L	1	2	2	4	3	6	Building width® (feet)						12 24 36				ıs.	
		Span'	NJ	Span'	NJ ⁴	Span'	NJ ^d	Span	NJª	Spanf	NJ ^d	Spanf	NJ ^d	Span'	NJ	Span'	NJ ^d	Spani	NJ
	1-2 × 6	4-0	1	3-1	2	2-7	2	3-5	1	2-8	2	2-3	2	3-0	2	2-4	2	2-0	2
ļ	1-2 × 8	5-1	2	3-11	2	3-3	2	4-4	2	3-4	2	2-10	2	3-10	2	3-0	2	2-6	3
ı	1-2 × 10	6-0	2	4-8	2	3-11	2	5-2	2	4-0	2	3-4	2	4-7	2	3-6	3	3-0	3
ı	1-2 x 12	7-1	2	5-5	2	4-7	3	6-1	2	4-8	3	3-11	3	5-5	2	4-2	3	3-6	3
İ	2-2 × 4	4-0	1	3-1	1	2-7	1	3-5	1	2-7	1	2-2	1	3-0	1	2-4	1	2-0	1
İ	2-2×6	6-0	1	4-7	1	3-10	1	5-1	1	3-11	1	3-3	2	4-6	1	3-6	2	2-11	2
ı	2-2 × 8	7-7	1	5-9	1	4-10	2	6-5	1	5-0	2	4-2	2	5-9	1	4-5	2	3-9	2
toof and ceiling	2-2 × 10	9-0	1	6-10	2	5-9	2	7-8	2	5-11	2	4-11	2	6-9	2	5-3	· 2	4-5	2
1	2-2 × 12	10-7	2	8-1	2	6-10	2	9-0	2	6-11	2	5-10	2	8-0	2	6-2	2	5-2	3
İ	3-2 × 8	9-5	1	7-3	1	6-1	1	8-1	1	6-3	1	5-3	2	7-2	1	5-6	2	4-8	2
Ī	3-2 × 10	11-3	1	8-7	1	7-3	2	9-7	ı	7-4	2	6-2	2	8-6	1	6-7	2	5-6	2
1	3-2 × 12	13-2	1	10-1	2	8-6	2	11-3	2	8-8	2	7-4	2	10-0	2	7-9	2	6-6	2
Ī	4-2×8	10-11	ı	8-4	1	7-0	1	9-4	ı	7-2	1	6-0	1	8-3	1	6-4	1	5-4	2
	4-2 × 10	12-11	1	9-11	1	8-4	1	11-1	1	8-6	1	7-2	2	9-10	1	7-7	2	6-4	2
	4-2 × 12	15-3	1	11-8	-	9-10	2	13-0	-	10-0	2	8-5	2	11-7	1	8-11	2	7-6	2
	1-2×6	3-3	1	2-7	2	2-2	2	3-0	2	2-4	2	2-0	2	2-9	2	2-2	2	1-10	2
	1-2×8	4-1	2	3-3	2	2-9	2	3-9	2	3-0	2	2-6	3	3-6	2	2-9	2	2-4	3
[1-2 × 10	4-11	2	3-10	2	3-3	3	4-6	2	3-6	3	3-0	3	4-1	2	3-3	3	2-9	3
	1-2 x 12	5.9	2	4-6	3	3-10	3	5-3	2	4-2	3	3-6	3	4-10	3	3-10	3	3-3	4
	2-2 × 4	3-3	ı	2-6	1	2-2	1	3-0	-	2-4	1	2-0	1	2-8	1	2-2	J	1-10	1
]	2-2 × 6	4-10	1	3-9	1	3-3	2	4-5	1	3-6	2	3-0	2	4-1	1	3-3	2	2-9	2
Roof, ceiling	2-2 × 8	6-1	1	4-10	2	4-1	2	5-7	2	4-5	2	3-9	2	5-2	2	4-1	2	3-6	2
and one center-	2-2 × 10	7-3	2	5-8	2	4-10	2	6-8	2	5-3	2	4-5	2	6-1	2	4-10	2	4-1	2
bearing floor	2-2 × 12	8-6	2	6-8	2	5-8	2	7-10	2	6-2	2	5-3	3	7-2	2	5-8	2	4-10	3
	3-2 × 8	7-8	1	6-0	1	5-1	2	7-0	1	5-6	2	4-8	2	6-5	1.	5-1	2	4-4	2
	3-2 x 10	9-1	1	7-2	2	6-1	2	8-4	1	6-7	2	5-7	2	7-8	2	6-1	2	5-2	2
	3-2 x 12	10-8	2	8-5	2	7-2	2	9-10	2	7-8	2	6-7	2	9-0	2	7-1	2	6-1	2
ļ	4-2 × 8	8-10	1	6-11	1	5-11	1	8-1	1	6-4	1	5-5	2	7-5	1	5-11	1	5-0	2
	4-2 x 10	10-6	1	8-3	2	7-0	2	9-8	1	7-7	2	6-5	2	8-10	1	7-0	2	6-0	2
	4-2 × 12	12-4	1	9-8	2	8-3	2	11-4	2	8-11	2	7-7	2	10-4	2	8-3	2	7-0	2
	1-2×6	2-11	2	2-3	2	1-11	2	2-9	2	2-1	2	1-9	2	2-7	2	2-0	2	1-8	2
	1-2 × 8	3-9	2	2-10	2	2-5	3	3-6	2	2-8	2	2-3	3	3-3	2	2-6	3	2-2	3
ļ	1-2 × 10	4-5	2	3-5	3	2-10	3	4-2	2	3-2	3	2-8	3	3-11	2	3-0	3	2-6	3
ļ	1-2 × 12	5-2	2	4-0	3	3-4	3	4-10	3	3-9	3	3-2	4	4-7	3	3-6	3	3-0	4
	2-2 x 4	2-11	1	2-3	1	1-10	1	2-9	1	2-1	1	1-9	1	2-7	1	2-0	1	1-8	1
ļ	2.2 × 6	4-4	1	3-4	2	2-10	2	4-1	1	3-2	2	2-8	2	3-10	1	3-0	2	2-6	2
Roof, ceiling	2-2 × 8	5-6	2	4-3	2	3-7	2	5-2	2	4-0	2	3-4	2	4-10	2	3-9	2	3-2	2
and one clear span floor	2-2 × 10	6-7	2	5-0	2	4-2	2	6-1	2	4-9	2	4-0	2	5.9	2	4-5	2	3-9	3
.,	2-2 × 12	7-9	2	5-11	2	4-11	3	7-2	2	5-7	2	4-8	3	6-9	2	5-3	3	4-5	3
	3-2 × 8	6-11	1	5-3	2	4-5	2	6-5	1	5-0	2	4-2	2	6-1	1	4-8	2	4-0	2
	3-2 × 10	8-3	2	6-3	2	5-3	2	7-8	2	5-11	2	5-0	2	7-3	2	5-7	2	4-8	2
-	3-2 × 12	9-8	2	7-5	2	6-2	2	9-0	2	7-0	2	5-10	2	8-6	2	6-7	2	5-6	3
ļ	4-2×8	8-0	1	6-1	1	5-1	2	7-5	1	5-9	. 2	4-10	2	7-0	1	5-5	2	4-7	2
	4-2 × 10 4-2 × 12	9-6	2	7-3 8-6	2	6-1 7-2	2	8-10 10-5	2	6-10 8-0	2	6-9	2	8-4 9-10	2	6-5 7-7	2	5-5 6-5	2

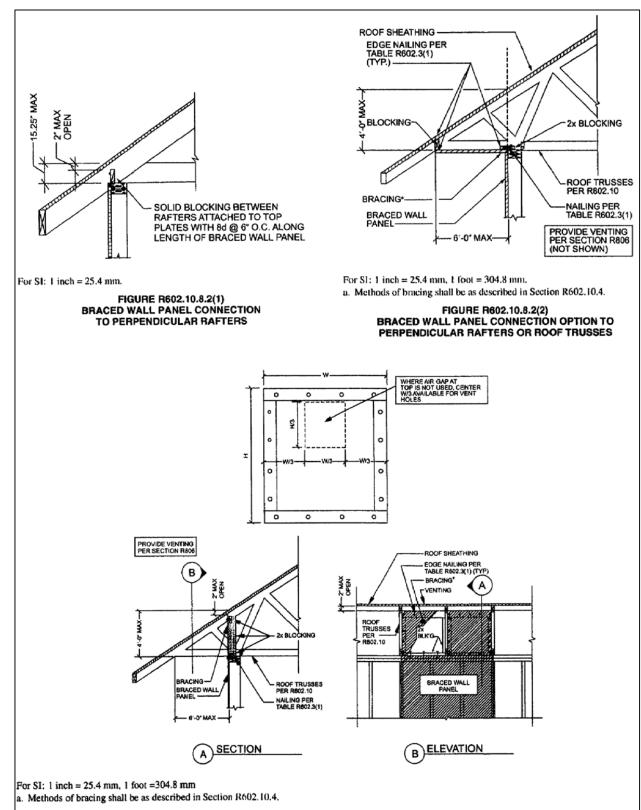


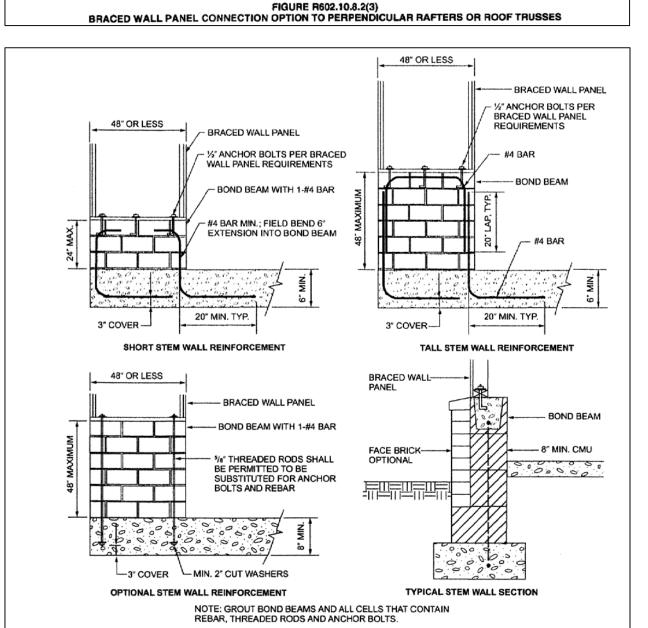
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d. NJ - Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by an approved framing anchor attached to the full-height wall stud and to the header. e. Use 30 psf ground snow load for cases in which ground snow load is less than 30 psf and the roof live load is equal to or less than 20 psf. f. Spans are calculated assuming the top of the header or girder is laterally braced by perpendicular framing. Where the top of the header or girder is not laterally braced (e.g. cripple studs bearing on the header), tabulated spans for headers consisting of 2×8, 2×10, or 2×12 sizes shall be multiplied by 0.70 or the header

		GANG STI	UD COLUMN	SCHEDULE			
MAXIMUM ALLOWABLE	8'-O" TA	LL WALL	9'-0" TA	LL WALL	10'-0" TALL WALL		
TOTAL	2X4 STUD WALL	2X6 STUD WALL	2X4 STUD WALL	2X6 STUD WALL	2X4 STUD WALL	2X6 STUD WALL	
UP TO 2500 lbs	(2)-2X4	(2)-2X6	(3)-2X4	(2)-2X6	(3)-2X4	(2)-2X6	
2501 lbs T0 4000 lbs	(3)-2X4	(2)-2X6	(3)-2X4	(3)-2X6	(3)-2X4	(3)-2X6	
4001 lbs T0 5000 lbs	(3)-2X4	(3)-2X6	(3)-2X4	(3)-2X6	(3)-2X4	(3)-2X6	
5001 lbs T0 6000 lbs	(3)-2X4	(3)-2X6	(3)-2X4	(3)-2X6	(4)-2X4	(3)-2X6	
6001 lbs T0 7000 lbs	(3)-2X4	(3)-2X6	(4)-2X4	(3)-2X6	(4)-2X4	(3)-2X6	
7001 lbs T0 8000 lbs	(4)-2X4	(3)-2X6	(4)-2X4	(3)-2X6	(5)-2X4	(4)-2X6	
8001 lbs T0 9000 lbs	(4)-2X4	(3)-2X6	(5)-2X4	(3)-2X6	(5)-2X4	(4)-2X6	
9001 lbs T0 10,000 lbs	(4)-2X4	(3)-2X6	(5)-2X4	(4)-2X6	3.5"X5.25" PSL	(4)-2X6	
GREATER THAN 10,000 lbs	SEE PLAN						

SIMPSON SHEAR BRACE NOTE: ESR-2652 4.1.3 Braced Wall Panels: Each 12-inch-wide Strong-Wall panel, 9 feet (2740 mm) or less in height, and each 18- or 24-inch-wide Strong-Wall panel, 12 feet (3660 mm) or less in height, may replace each alternate braced wall panel or each 4 feet (1219 mm) of braced wall panel length specified in Section 2308.6 of the 2018 and 2015 IBC (Section 2308.9.3 of the 2012, 2009 and 2006 IBC, as applicable) and Section R602.10 of the IRC. The required length of bracing shall be based on wood structural panel sheathing (Method WSP in IBC and IRC).



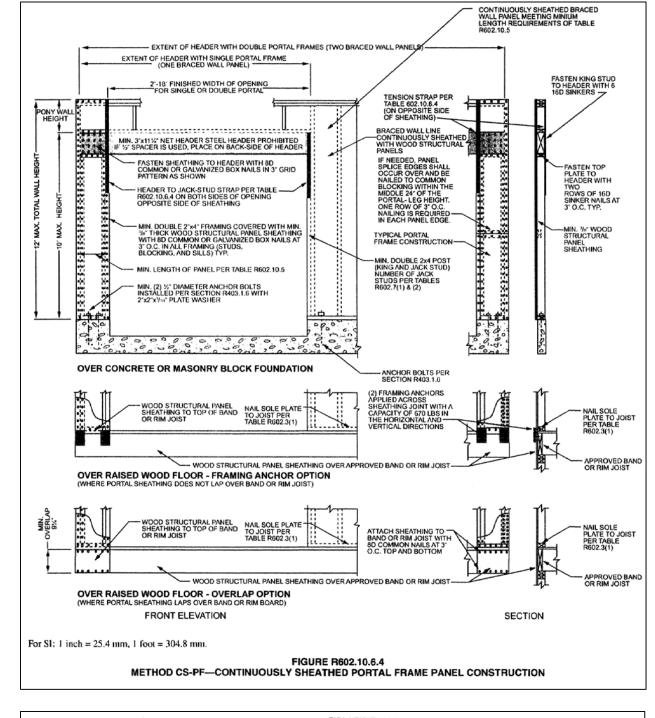


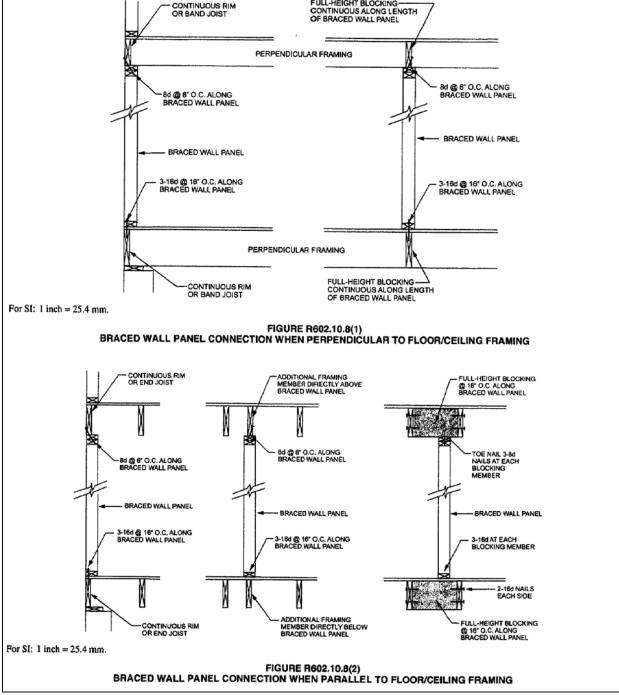
For SI: 1 inch = 25.4 mm. FIGURE R602.10.9 MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS TABLE R602.7. MINIMUM NUMBER OF FULL HEIGHT STUDS

AT EA	<u>CH END OF HEADERS IN EXT</u>	ERIOR WALLS						
HEADER SPAN	MAXIMUM STUD SPACING (inches) (per Table 602.3.5)							
(feet)	16	24						
<u>(</u> 3'								
4'	2	[
8'	3	2						
12'	5	3						
16'	6	4						

VRC Table R602.7.5- SUPPORTS FOR HEADERS, KING STUDS; Headers must be supported by one or more king studs (in addition to the jack studs) as per Table R602.7.5. The king studs must be attached to the adjacent jack stud and attached to the

VRC R302.5.I, - OPENINGS FROM ATTACHED GARAGE INTO HOUSE: Openings between a garage and residence must be provided with solid wood doors not less than 1-3/8 inches in thickness, solid or honeycomb steel doors not less than 1-3/8" thick, or 20-minute fire rated doors. Openings from the private garage directly into a room used for sleeping purposes are prohibited.





CONCRETE FOOTING BEARING CAPACITY 24X24X12 WITH 4 #4 REBAR BOTH DIRECTIONS 25X25XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 6510# 26X26XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 7041# 27X27XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 7593# 28X28XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 8166# 29X29X12 WITH 4 #4 REBAR BOTH DIRECTIONS #01/8 9375# 30X30XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 10100# 31X31X12 WITH 4 #4 REBAR BOTH DIRECTIONS 32X32X12 WITH 4 #4 REBAR BOTH DIRECTIONS 10666# 33X33XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 11343# 34X34X12 WITH 4 #4 REBAR BOTH DIRECTIONS 12041# 35X35XI2 WITH 4 #4 REBAR BOTH DIRECTIONS 12760# 36X36X16 WITH 4 #4 REBAR BOTH DIRECTIONS 13500# 38X38X16 WITH 4 #4 REBAR BOTH DIRECTIONS 14978# 42X42X16 WITH 4 #4 REBAR BOTH DIRECTIONS 18375# 44X44XI8 WITH 4 #4 REBAR BOTH DIRECTIONS 20166#

FENTRESS HOME DESIGN RESIDENTIAL PLANS / ADDITIONS

Virginia beach, Virginia OFFICE (757) 438-5053

SED TWO STORY BRICK & FRAME | SINGLE FAMILY DWELLING drawn by: BCF date: 4/21/21 prepared for: scale: NOTED HOST RESIDENCE

A-6 of 6

Host Residence

file no. 21-42121