





INTERNATIONAL RESIDENTIAL CODE 2015 AND 780 CMR MASSACHUSETTS STATE BUILDING CODE AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE 2015 9TH EDITION (ONE AND TWO FAMILY DWELLINGS)

NOTE:
IT IS THE INTENT TO PROVIDE A
CONTINUOUS LOAD PATH, THE
INTERCONNECTION OF ALL FRAMING
ELEMENTS IS CRITICAL TO A
WIND-RESISTIVE BUILDING, A
CONTINUOUS LOAD PATH OF
INTERCONNECTED FRAMING ELEMENTS
FROM FOOTINGS AND FOUNDATION
WALLS TO FLOORS, WALLS, AND ROOF
FRAMING SHALL BE PROVIDED

## 1.1 SCOPE

Table R301.2(4) Massachusetts Basic Wind Speeds Town: Bourne Basic Wind Speed; 139 mph

LOCATION; Exposure B

R301.2.1.4 Exposure Category

Table R301.2(5) Massachusetts Ground Snow Loads Town: BOURNE Snow Load; 30 psf

R301.2.1.2 Protection of Openings Windows in wind borne debris regions shall have glazed openings protected from wind borne debris in accordance with Large Missile Test of ASTM E 1996 and of ASTM E 1886. Exception: Wood structural panels, 7/16" x 8"-0", shall be permitted for opening protection in one and two story buildings in accordance with Table R301.2.1.2.

FEMA 543 Definitions
Wind-borne debris regions. Areas within hurricone-prone regions located:

I Within I mile of the coastal mean high water line where the basic wind speed is equal to ar greater than 130 mph.

2 In areas where the basic wind speed is equal to or greater than 130 mph.

mph.

1.2 APPLICABILITY 1.2 APPLICABILITY
Height & Area Limitations (Table 503 2009 IBC); R3 Type 5 Unprotected; 3 Stories, Unlimited Square Feet Roof Pitch; 12/12 VARIES
Mean Roof Height; MATCH EXISTING

1.3 FRAMING General framing connections shall be in accordance with 2009 international Residential Code Table R602.3.(1) Fastener Schedule For Structural Members, unless noted.

Distributed Live Loads
Altics without Storage; 10 psf
Altics without Storage; 20 psf
Hobiloble Altics and with Storis; 30 psf
Boliconies and Decks; 40 psf
Fire Escopes; 40 psf
Guardroils, Hondrails; 200 psf
Guardroils in-fill components; 50 psf
Possenger vehicle garage; 50 psf
Rooms other then sleeping; 40 psf
Steeping Rooms; 30 psf
Storis; 40 psf

Table R301.7 Toble R301.7
Rofters greater then 3/12; L/180
Interior Walls; H/180
Floors/Ceilings; L/360
Exterior Walls, stucco; H/360
Exterior Walls, brittle; L/240
Exterior Walls, flexible; L/120

2.2 NEW FOUNDATION ANCHORAGE 2.2 NEW FOUNDATION ANCHORAGE Provide 5/8" diameter x 15" long x 3" hook anchor bolts @ 48" O.C. with 3" x 3" x 1,4" plate woshers. Provide one anchor bolt 6" to 12" from each end of plate and one within 12" of corners.

3.1 FLOORS 3.1 FLOOMS
The clear span of floor joist shall meet or exceed the values set forth in 2009 IRC. Floor openings shall not exceed the lesser of 12'-0" or 50% of the building

3.1 FLOOMS
448 F.O.C. located in of the office and or forters using 5-10d nor forters using 5-10d nor forters using 5-10d nor forter susing 5-10d dimension, L/2 or W/2.

3.2 FLOOR BRACING 3.2 FLOOR BRACING Blocking and connections shall be provided at panel edges perpendicular to floor framing members in the first two truss or joist spaces and shall be 48" O.C. see Floor Bracing Detail. 4.1 WALLS Loadbearing walls shall not exceed 10'-0" in height. Non-loadbearing walls shall not exceed 20'-0" in height.

4.2 EXTERIOR WALLS
Maximum Loadbearing Stud Length
2x4 #2 at 16" O.C.; 9"-9"
2x6 #2 at 16" O.C.; 9"-9"
Maximum Non-loadbearing Stud Length
2x4 #2 at 16" O.C.; 11"-5"
2x6 #2 at 16" O.C.; 18"-5"

Gable Walls
Shall be braced for a distance of at least 1/3 of the building width with wood structural panels or at least 90% of the building width with gypsum wall board.

4.3 EXTERIOR WALL SHEATHING Provide 7/16" wood structural panel sheathing on all exterior walls as detailed. Provide hold downs as detailed

5.1 ROOF 5.1 ROOF Roof span shall not exceed 36'-0". Roof openings shall not exceed the lesser of 12'-0" or 50% of the building dimension, L/2 or W/2. Roof Slope shall not be greater than 12/12.

12.7 12.

5.2 WODD RAFTERS
The clear span of rafters shall meet or exceed the values set forth in 2009 IRC. The maximum rafter span shall be limited to 3/4 of leth span permitted for the 20pst roof live load case, not to exceed 26-0°. Provide upifit connections at each rafter or truss.

Frovide unifirmum 2x6 collar/rafter ties at 48° 0.C. located in the upper third of the ottic space and attached to rafters using 5-10d nails at each end.

5.4 ROOF BRACING ENDWALL Blocking and connections shall be provided at panel edges perpendicular to roof framing members in the first two truss or rafter spaces and shall be 48" O.C. see Brace Detail.

## **BONVOULOIR RESIDENCE ADDITION** 72 CIRCUIT AVENUE BOURNE, MASSACHUSETTS

LIST OF DRAWINGS

**EX1 EXISTING CONDITIONS PLAN** 

A1 FLOOR PLANS

A2 ELEVATIONS

A3 SECTIONS & DETAILS, EXISTING FOUNDATION PLAN

S1 FRAMING PLANS

S2 FASTENER SCHEDULE, STRUCTURAL CRITERIA

RECEIVED

NOV 08 2021

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BONVOULOIR RESIDENCE ADDITION

SHEET COVER (



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	FASTENER SCHEDULE FOR	R STRUCTURAL MEMBERS			
ІТЕМ	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER 0,b,c	SPACING AND LOCATION		
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2-1/2" X 0.113") OR 3-8d COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	TOE NAIL		
2	CEILING JOISTS TO TOP PLATE	4-8d BOX (2-1/2" X 0.113") OR 3-8d COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL		
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS [SEE SECTIONS R802.3.1, R802.3.2 AND TABLE R802.5.1(9)]	4-10d BOX (3" X 0.128") OR 3-16d COMMON (3-1/2" X 0.162") OR 4-3"X 0.131" NAILS	FACE NAIL		
4	CEILING JOISTS ATTACHED TO PARALLEL RAFTER, (HEEL JOINT) [SEE SECTIONS R802.3.1, R802.3.2 AND TABLE R802.5.1(9)]	TABLE R802.5.1(9)	FACE NAIL		
5	COLLAR THE TO RAFTER, FACE NAIL OR 1-1/4 X 20 GAGE RIDGE STRAP TO RAFTER	4-10d BOX (3" X 0.128") OR 3-10d COMMON (3" X 0.148") OR 4-3"X 0.131" NAILS	FACE NAIL EACH RAFTER		
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3-1/2" X 0.135") OR 3-10d COMMON NAILS (3" X 0.148") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS'		
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF	4-16d (3-1/2" X 0.135") OR 3-10d COMMON (3" X 0.146") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS	TOE NAIL		
	RAFTER TO MINIMUM 2" RIDGE BEAMS	3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	END NAIL		
	WAL				
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" X 0.162") 10d BOX (3" X 0.128") OR	24" O.C. FACE NAIL		
		10d BOX (3" X 0.128") OR 3"X 0.131" NAILS 16d BOX (3-1/2" X 0.135") OR	16" O.C. FACE NAIL		
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3-1/2" X 0.135") OR 3"X 0.131" NAILS 16d COMMON (3-1/2" X 0.162")	12" O.C. FACE NAIL		
	BUILT-UP MEADER (2" TO 2" HEADER W/ ½" SPACER)	16d COMMON (3-1/2" X 0.162")	16" O.C. EACH EDGE		
10		16d BOX (3-1/2" X 0.135")	FACE NAIL 12" O.C. EACH EDGE		
11	CONTINUOUS HEADER TO STUD	5-Bd BOX (2-1/2" X 0.113") OR 4-Bd COMMON (2-1/2" X 0.131") OR 4-10d BOX (3" X 0.128")	TOE NAIL		
12	TOP BLATE TO TOP BLATE	16d COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL		
12	TOP PLATE TO TOP PLATE	10d BOX (3" X 0.128") OR 3"X 0.131" NAILS	12" O.C. FACE NAIL		
13	DOUBLE TOP PLATE SPLCE FOR SDCs A-D, WITH SEISMC BRACED WALL LINE SPACING < 25'	8-16d COMMON (3-1/2" X 0.162") OR 12-16d BOX (3-1/2" X 0.135") OR 12-10d BOX (3" X 0.128") OR 12-3"X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT		
	DOUBLE TOP PLATE SPLICE FOR SDCs $\rm D_{\! g}$ , $\rm D_{\! g}$ , $\rm D_{\! g}$ AND BRACED WALL LINE SPACING $\leq\!25^{'}$	1216d (3-1/2" X 0.135")			
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" X 0.162") 16d BOX (3-1/2" X 0.135") OR 3"X 0.131" NALLS	16" O.C. FACE NAIL		
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	3-16d BOX (3-1/2" X 0.135") OR	3 EA. 16" O.C. FACE NAIL 2 EA. 16" O.C. FACE NAIL 4 EA. 16" O.C. FACE NAIL		
16	TOP OF BOTTOM PLATE TO STUD	4-8d BOX (2-1/2" X 0.113") OR 3-166 BOX (3-1/2" X 0.135") OR 4-8d COMMON (2-1/2" X 0.131") OR 4-10c BOX (3" X 0.128") OR 4-3"X 0.131" NAILS	TOE NAIL		
		3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	END NAIL		
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" X 0.128") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-3"X 0.131" NAILS	FACE NAIL		
18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2-1/2" X 0.113") OR 2-8d COMMON (2-1/2" X 0.131") OR 2-10d BOX (3" X 0.128") OR 2 STAPLES 1-3/4"	FACE NAIL		
19	1"X6" SHEATHING TO EACH BEARING	3-8d BOX (2-1/2" X 0.113") OR 2-8d COMMON (2-1/2" X 0.131") OR 2-10d BOX (3" X 0.128") OR 2 STAPLES, 1" CROWN, 16 GA. 1¾" LONG	FACE NAIL		
20	1"X8" AND WIDER SHEATHING TO EACH BEARING	3-ed BOX (2-1/2" X 0.113") OR 3-ed COMMON (2-1/2" X 0.13") OR 3-ed COMMON (2-1/2" X 0.131") OR 3-FOC BOX (3" X 0.128") OR 3 STAP-LES, 1" CROWN, 16 GA. 1¾" LONG WDCFR THAN 1"\">1" LONG WDCFR THAN 1"\	FACE NAIL		

	FASI	TENER SCHEDULE FOR STRU	CTURAL MEMBERS-CONTINUED			
ITEM	DESCRIPTION OF BUILDING ELEMENTS		NUMBER AND TYPE OF FASTENER o,b,c		SPACIN	G AND LOCATION
		FL00	R			
21	JOIST TO SILL, TOP PLATE OR GIRDER		4-8d BOX (2-1/2" X 0.113") OR 3-8d COMMON (2-1/2" X 0.131") 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	OR	TOE NAIL	
			8d BOX (2-1/2" X 0.113")		4" O.C. TOE NAIL	
22	RIM JOIST, BAND JOIST OR BLOCKING (ROOF APPLICATIONS ALSO)	8d COMMON (2-1/2" X 0.131") OR 10d BOX (3" X 0.128") OR 3"X 0.131" NAILS		6" O.C. TOE NAIL		
23	3-8d BOX (2-1/2" X 0.113") OR 2-8d COMMON (2-1/2" X 0.131") OR 1"X6" SUBFLOOR OR LESS TO EACH JOIST 3-10d BOX (3" X 0.128") OR 2 STAPLES, 1" CROWN, 16 6A. 1½" LONG		OR LONG	FACE NAIL		
24	2" SUBFLOOR TO JOIST OR GIRDER		3-16d BOX (3-1/2" X 0.135") OF 2-16d COMMON (3-1/2" X 0.162"	?	BLIND AND FACE NAIL	
25	2" PLANKS (PLANK & BEAM - FLOOR	& ROOF)	3-16d BOX (3-1/2" X 0.135") OF 2-16d COMMON (3-1/2" X 0.162"	5	AT EACH BEARING, FACE NAIL	
26	BAND OR RIM JOIST TO JOIST		3-16d COMMON (3-1/2" X 0.162" 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS 4-3"X14GA. STAPLES, % CROWN	) OR	END NAIL	
	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS		20d COMMON (4" X 0.192") OR		NAIL EACH LAYER AS FOLLOWS: 32" C.C. AT TOP AND BOTTOM AND STAGGERED	
27			10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS		24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	
		AND: 2-20d COMMON (4" X 0,192") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS		FACE NAIL AT ENDS AND AT EACH SPLICE		
28	LEDGER STRIP SUPPORTING JOISTS OR	4-16d BOX (3-1/2" X 0.135") OR 3-16d COMMON (3-1/2" X 0.162") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS		AT EACH JOIST OR RAFTER, FACE NAIL		
29	BRIDGING TO JOIST		2-10d (3" X 0.128")		EACH END, TOE NAIL	
	FASTE	NER SCHEDULE FOR STRUCT	URAL MEMBERS - CONTINUED			
					SPACING (	OF FASTENERS
ПЕМ	DESCRIPTION OF BUILDING MATERIALS				oges Ches) <sup>h</sup>	SUPPORTS C,e (INCHES)
	WOOD STRUCTU	IRAL PANELS, SUBELOOR, RO	OOF AND INTERIOR WALL SHEATHIN	NG TO	FRAMING	AND
		PARTICLEBOARD W	ALL SHEATHING TO FRAMING IL PANEL EXTERIOR WALL SHEATH			
30	3/8"-1/2"	6D COMMON (2" X 0.113") NAIL (SUBFLOOR, WALL) <sup>1</sup> 8D COMMON (2-1/2" X 0.131") NAIL (ROOF)			6	12 <sup>f</sup>
31	19/32"-1"	8D COMMON (2-1/2" X 0.131")			6	12 <sup>f</sup>
32	1-1/8" - 1-1/4"	10D COMMON (3" X 0.148") NAIL OR 8D (2-1/2" X 0.131") DEFORMED NAIL			6	12
		OTHER WALL	SHEATHING <sup>9</sup>			
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAM., OR 1" CROWN STAPLE 16GA., 1-1/4" LONG			3	6
34	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL, 7/16" CROWN OR 1" CROWN STAPLE 16GA., 1-1/4" LONG			3	6

37 3/4" AND LESS

3B 7/8"-1"

35 1/2" GYPSUM SHEATHING d

1~1/8" - 1-1/4"

5/8" GYPSUM SHEATHING d

NOTE:
1 ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED.
2 FOR ADDITION INFORMATION AND FOOTNOTES REFERENCE 2015 IRC TABLE R602.3(1)

6D DEFORMED (2" X 0.120") NAIL OR 8D COMMON (2-1/2" X 0.131") NAIL

8D COMMON (2-1/2" X 0.131") NAIL OR 8D DEFORMED (2-1/2" X 0.120") NAIL

1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE W OR S

WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING

1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE W OR S

7

7

12

12

12

RESIDENTIAL BUILDING DESIGN CRITERIA NOTES:

INTERNATIONAL RESIDENTIAL CODE 2015 AND 780 CMR MASSACHUSETTS STATE BUILDING CODE AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE 2015 9th EDITION (ONE AND TWO FAMILY DWELLINGS)

NOTE:
IT IS THE INTENT TO PROVIDE A CONTINUOUS LOAD PATH, THE INTERCONNECTION OF ALL FRAMING ELEMENTS IS CRITICAL
TO A WIND-RESISTIVE BUILDING. A CONTINUOUS LOAD PATH OF INTERCONNECTED FRAMING ELEMENTS FROM FOOTINGS AND
FOUNDATION WALLS TO FLOORS, WALLS, AND ROOF FRAMING SHALL BE PROVIDED.

STRUCTURAL DESIGN CRITERIA

1.0 DESIGN CRITERIA:
THE FOLLOWING OUTLINES MINIMUM PERFORMANCE STANDARDS FOR THE PROJECT
AND THE BASIS UPON WHICH SHOP DRAWINGS (IF ANY) WILL BE REVIEWED.
1.1 TYPICAL ALTERNATE STANDARDS (FOR REQUIREMENTS NOT OTHERWISE
INDICATED IN THIS SPECIFICATION OR RELATED DRAWINGS): APPLICABLE BUILDING CODE (INCLUDING INDUSTRY STANDARDS REFERENCED THERE-IN) OR PRODUCT MANUFACTURER'S RECOMMENDED STANDARD, WHICHEVER IS THE MORE PROJUCE MANUFACTURERS RECOMMENDED STANDARD, WINDERSER IS HE MARE STRINGENT FOR A PARTICULAR ITEM OR CONDITION.

1.2 FEMA 543 DEFINITIONS, WIND BORNE DEFINIS REGIONS WITHIN 1 MILE OF COASTAL MEAN HIGH WATER LINE, LOCATION WITHIN 1 MILE OF COASTAL MEAN HIGH WATER LINE. PROVIDE IMPACT RESISTANT EXTERIOR WINDOWS AND DOORS.

2.0 DEAD LOADS:
2.1 STRUCTURAL SHEATHING:
2.1.5 TROORS: 3/4" MIN. THICK, T & G, CDX PLY.
2.1.2 EXTERIOR WALLS: 1/2" MIN. EXTERIOR PLYWOOD
2.1.3 ROOFS: 5/8" MIN. EXTERIOR PLYWOOD
2.2 FINISHES: (THE FOLLOWING REPRESENTS STRUCTURAL DESIGN CRITERIA, NOT

Finish specifications)
2.2.1 Floor finishes at entries, bathrooms and kitchen areas:
ASSUME THIN-SET CERAMIC TILE OVER 1/2" CEMENT FIBER BOARD

NUERLAYMENT.

2.2.2 FLOOR FINISHES AT OTHER HABITABLE AREAS: ASSUME 3/4"

HARDWOOD FLOORS.

2.2.3 WALL FINISHES: ASSUME CERAMIC TILE WITH 1/2" CEMENT FIBER BOARD BACKER AT TUB AND SHOWERS; 1/2" BLUEBOARD AND PLASTER ALL OTHER LOCATIONS.

2.2.4 CEILING FINISHES: ASSUME 1/2" BLUEBOARD AND PLASTER
2.2.5 ROOF FINISHES: ASSUME HEAVY DUTY, ARCHITECTURAL GRADE

ASPHALT SHINGLES.
2.3 MAXIMUM DEAD LOAD OF 10 P.S.F.

## 3.0 (NOT USED)

4.0 ALLOWABLE DEFLECTION:

4.1 FLOOR/CEILING ASSEMBLIES (INCLUDING SUPPORTING BEAMS) — (NOTE: WINDOWS AND DOORS — ASSUME NAILING TABS AT JAMBS AND HEADS, WITH MANUF, RECOMMENDED HEAD CLEARANCES OF APPROXIMATELY 1/2")

4.1.1 LIVE LOAD DEFLECTION: L/480 UP TO 1/2" MAX

4.1.2 TOTAL LOAD DEFLECTION: L/240 UP TO 3/4" MAX.

5.0 MATERIALS:
5.1 FRAMING DIMENSION LUMBER
LOAD BEARING DIMENSION LUMBER FOR JOISTS, STUDS, PLATES, RAFTERS,
HEADERS, BEAMS AND GROERS ETC. SHALL CONFORM TO 2009 IRC, AND TO
OTHER APPLICABLE STANDARDS OR CREADING ROLLES AND SHALL BE SO
JOENTHEED BY A CRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN
APPROVED AGENCY. THE GRADE MARK OR CERTIFICATE SHALL PROVIDE
ADEQUATE INFORMATION TO DETERMINE TH, THE ALLOWABLE STRESS IN BENDING,
AND E, THE MODULUS OF ELASTICITY.
5.1.1 ALLOWABLE JOIST SPAMS: THE CLEAR SPAN OF FLOOR JOISTS SHALL
NOT EXCEED THE VALUES SET FORTH IN TABLES 2009 IRC R502.3.1(1) &
R502.3.1(2)

R502,3.1(2).

5.1.2 ALLOWABLE SPANS: THE UNSUPPORTED SPANS FOR CEILING JOISTS SHALL NOT EXCEED THE VALUES SET FORTH IN TABLES 209 IRC R804.3.1(1), R804.3.1(2) R804.3.1(3), R804.3.1(4), R804.3.1(5), R804.3.1(6), R804.3.1(7), R804.3.1(8). THE UNSUPPORTED SPANS FOR RAFTERS SHALL NOT EXCEED THE VALUES SET FORTH IN TABLES 2009 IRC R802.3.1(1), R802.3.1(2) R802.3.1(3), R802.3.1(4), R802.3.1(5), R802.3.1(6), R802.3.1(7), R802.3.1(8).

5.1.3 PLYWOOD SHEATHING: AND WOOD STRUCTURAL PANELS USED FOR STRUCTURAL PURPOSES SHALL CONFORM TO 2009 IRC TABLE R602.3(3). ALL PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.

5.1.30 WHERE USED AS SUBFLOORING OR COMBINATION SUBFLOOR UNDERLAYMENT, WOOD STRUCTURAL PANELS SHALL BE OF ONE OF THE GRADES SPECIFIED IN 2009 IRC TABLE R503.2.1(1). WHEN SANDED PLYWOOD IS USED AS A COMBINATION SUBFLOOR UNDERLAYMENT, THE GRADE SHALL BE AS SPECIFIED IN 2009 IRC TABLE R503.2.1(2).

5.2 ENGINEERED WOOD ALL BEAMS, HEADERS AND GIRDERS SPECIFIED ON THE PLANS AS LVL BEAMS, ALL BEAMS, MEAUERS AND INDERS SPECIFIED ON THE PLANS AS EVED BEAMS, OR COMPOSITE (BUILT-UP) LV. BEAMS, SHALL BE AS MANUFACTURED BY TRUS JOIST MACMILLAN OR APPROVED EQUAL. ALL SPANS, LOAD CAPACITIES, BEARING CONDITIONS AND FASTENING SCHEDULES SHALL BE AS REQUIRED BY THE MANUFACTURER.

6.0 INSTALLATION STANDARDS
PROVIDE CONTINUOUS LOAD PATH BETWEEN FOOTINGS, FOUNDATION WALLS,
FLOORS, STUDS AND ROOF FRAMING.
5.1 FRAMING SYSTEM: WESTERN PLATFORM
6.2 WOOD POSTS AND JACKS SUPPORTING WOOD FRAMING
6.2.1 WITHIN 2 X 4 WALL FRAMING: 4 X 4 MIN
6.2.2 WITHIN 2 X 6 WALL FRAMING: 4 X 4 MIN
6.2.2 WITHIN 2 X 6 WALL FRAMING: 4 X 6 OR 6 X 6 (REFER TO PLANS)
6.2.3 ALL WOOD POSTS SHALL BE CONNECTED TO THE WOOD FRAMING AT TOP
WITH METAL POST CAP A.C. OR A.C.E. BY SIMPSON.

MITH MELIAL PUST LARF ALC. UK A.C.E. BY SIMPSON.
6.3.1 GOLUMNS (BASEMENT OR EXTERIOR LOCATIONS): 3 1/2" LALLY COLUMNS
6.3.1 BASE PLATES: SPRINGFIELD BEARING PLATES WELDED TO COLUMN.
6.3.2 CAPS (CONNECTING COLUMNS TO WOOD FRAMING): SPRINGFIELD
BEARING PLATES OR SIMPSON "CC" TYPE COLUMN CAPS

6.4 ANCHORS, CONNECTORS AND HANGERS
6.4.1 SIZE, CONFIGURATION, LOCATION AND QUANTITIES TO MEET WIND, EARTHQUAKE AND GRAWITY LOADS.

6.4.2 JOIST HANGERS: TOP FLANGE TYPE (UNLESS NOT FEASIBLE) SHALL BE USED AT ALL CONNECTIONS AS REQUIRED. HANGERS SHALL BE 18 GA, MIN. WITH ALL HOLES FILLED WITH REQUIRED FASTENERS.
6.5 WALL FRAMING ALL EXTERIOR WALLS SHALL BE 2x4 OR 2x6 (AS INDICATED

6.5.1 EXTERIOR WALL SHEATHING SHALL BE FASTENED WITH (SEE SCHEDULE & DETAILS) ® INTERIOR SUPPORTS, UNLESS OTHERWISE NOTED ON PLANS (U.O.N.) 6-5.2 2x4 INTERIOR STUD BEARING WALLS SHALL BE 2 X 4 STUDS AT 16 0.C. WITH BLOCKING AT MID HEIGHT FOR WALLS OVER 9 FEET HIGH, AND METAL X-BRACING (SIMPSON STRONG TIE TYPE WB) U.O.N. 6.6 FLOOR AND CEILING FRAMING (UNLESS NOTED OTHERWISE ON ATTACHED

DRAWINGS): DIMENSION LUMBER.

6.6.1 PROVIDE DOUBLE JOISTS BENEATH ALL BEARING PARTITIONS AND AT ALL

ROUGH OPENINGS

ROUGH OPENINGS.

6.5.2 PROVIDE SOLID BLOCKING BETWEEN JOISTS AT BEARING WALLS RUNNING PERPENDICULAR TO WALL AND BETWEEN JOISTS TO EITHER SIDE OF PARTITIONS RUNNING PARALLEL TO FRAMING.
6.5.3 PROVIDE SOLID BRIDGING AT 8 FT MAX. O.C.
6.5.4 PLYWOOD SUBFLOOR SHALL BE GLUED AND NAILED WITH 8D NAILS AT 10° O.C. TO INTERMEDIATE SUPPORTS AND 8D NAILS AT 6" O.C. TO PANEL EDGE SUPPORTS.

SUPPORTS.
6.7 RAFTERS (UNLESS NOTED OTHERWISE ON ATTACHED DRAWINGS): DIMENSION

FASTENER SCHEDULE STRUCTURAL DESIGN CRITERIA REVISIONS

BONVOULOIR RESIDENCE ADDITION

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