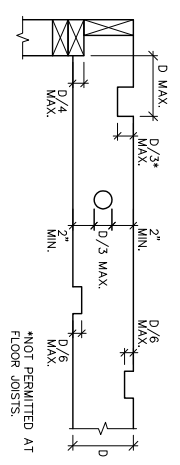
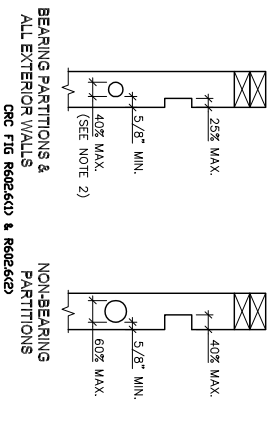




# SINGLE STORY CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

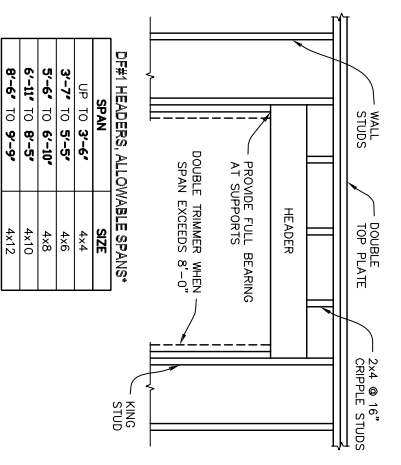


**RAFTERS, CEILING JOISTS AND FLOOR JOISTS**  
CRC FIG R602.6(3)



**NOTES:**  
(1) BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION  
(2) BORED HOLES IN BEARING STUDS MAY BE INCREASED TO 60% IF STUDS ARE DOUBLED; NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS MAY BE BORED.

## NOTCHING AND HOLES



SPAN	SIZE
UP TO 3'-6"	4x4
3'-7" TO 5'-5"	4x6
5'-6" TO 6'-10"	4x8
6'-11" TO 8'-5"	4x10
8'-6" TO 9'-5"	4x12

**DRAFT TABLE R602.6(1) HEADER/LINTEL**

**GENERAL NOTES:**  
(1) SEE FASTENING SCHEDULE (TABLE R602.3(1)) FOR NAILING NOT SHOWN.  
(2) BEARING WALLS AND BRACED WALLS REQUIRE CONTINUOUS FOOTINGS.  
(3) "DF" ON THESE SHEETS REFERS TO DOUGLAS FIR-LARCH, SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY.  
(4) "DL" AND "LL" ON THESE SHEETS INDICATES "DEAD LOAD" AND "LIVE LOAD," RESPECTIVELY.  
(5) WOOD MEMBERS SHALL BE OF SUFFICIENT SIZE TO PREVENT SPLITTING DUE TO NAILING. SPLIT MEMBERS SHALL BE REMOVED AND REPLACED.  
(6) "P-1" ON THESE SHEETS INDICATES PRESERVATIVE-TREATED WOOD.  
(7) WALLS FRAMED WITH ENGINEERED WOOD TRUSSES, ROOF DIAPHRAGMS SHALL BE CONNECTED TO INTERIOR BRACED WALLS BY MEANS OF DRAG TRUSSES OR TRUSS BLOCKING.

## DF#2 RAFTERS, ALLOWABLE SPANS\*

RAFTER	2x4	2x6	2x8	2x10	2x12
12"	10'-0"	16'-7"	21'-0"	25'-8"	-
16"	9'-0"	14'-4"	18'-2"	22'-3"	25'-9"
24"	8'-0"	11'-9"	14'-10"	18'-2"	21'-0"

\* DATA TAKEN FROM TABLE R602.5(1)

## DF#2 CEILING JOISTS, ALLOWABLE SPANS\*

JOIST	2x4	2x6	2x8	2x10	2x12
12"	12'-5"	19'-6"	25'-8"	-	9'-10"
16"	11'-3"	17'-8"	23'-0"	-	8'-9"
24"	9'-10"	14'-10"	18'-9"	22'-11"	10'-6"

\* DATA FROM CRC TABLE R602.4(2) ATTICS WITH STORAGE ARE THOSE WHERE THE CLEAR HEIGHT CEILING DEAD LOAD SHALL NOT EXCEED 5 PSF.

## RAFTER-TIE CONNECTIONS, #18 COMMON WALLS, SEE NOTE 1(1)

TIE	ROOF PITCH											
	3:12		4:12		5:12		7:12		9:12		12:12	
SPACING	12"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"
12"	4	6	8	4	5	3	4	4	3	3	3	3
16"	5	8	10	4	5	3	4	4	3	3	3	3
24"	7	11	15	5	8	12	4	7	9	3	5	4

\* CRC TABLE R602.5(1) VALUES ADJUSTED FOR DF#2 FRAMING. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL-HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED, RAFTER-TIE BEARING SHALL BE REDUCED PROPORTIONALLY TO THE REDUCTION IN RAFTER SPAN; NO LESS THAN 3 NAILS SHALL BE PROVIDED AT EACH CONNECTION. NO SNOW LOAD.

## DF#2 FLOOR JOISTS, ALLOWABLE SPANS\*

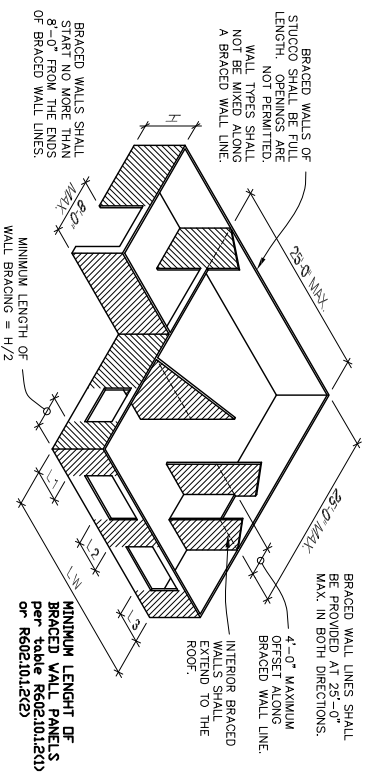
JOIST	2x6	2x8	2x10	2x12
12"	10'-9"	14'-2"	17'-9"	20'-7"
16"	9'-9"	12'-7"	15'-5"	17'-10"
24"	8'-1"	10'-3"	12'-7"	14'-7"

\* DATA FROM CRC TABLE R602.5(2)

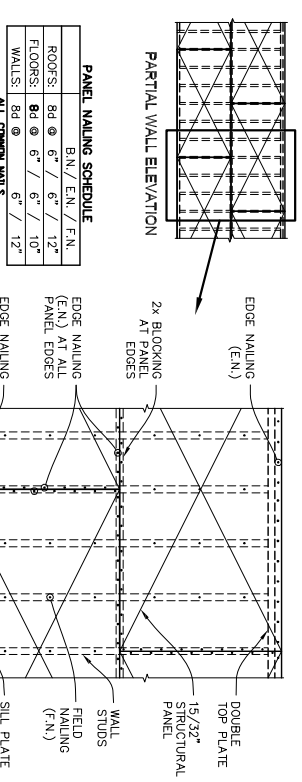
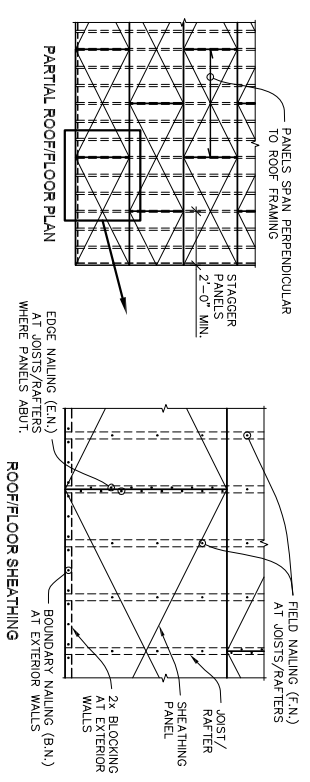
## PLYWOOD OR OSB FLOOR AND ROOF SHEATHING, ALLOWABLE SPANS\*

SHEATHING GRADES	MAX. SPAN (in.)	LOADS (psf.)			FLOOR PANEL EDGES WITH 1x6 JOISTS OR MAX. SPAN (in.)
		W/TL SUPPRT	W/HT SUPPRT	W/TL SUPPRT	
3/8"	24	20	40	30	0
7/16"	24	24	50	40	16
1/2"	32	28	60	50	16
5/8"	40	32	70	60	20
1"	48	36	80	70	24

\* DATA FROM CRC TABLE R602.3(1) SHEATHING PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS AND PERPENDICULAR TO SUPPORTS. FOR 1/2" SHEATHING, MAXIMUM SPAN SHALL BE 24". EDGE SUPPORT MAY BE PROVIDED BY TONGUE AND GROOVE EDGES, 2X BLOCKING, OR PANEL EDGE CLIPS.



## BASIC COMPONENTS OF THE LATERAL BRACING SYSTEM



**NOTES:**  
(1) NAILS SHALL BE PLACED 3/8" FROM PANEL EDGES.  
(2) PROVIDE 1/8" GAP BETWEEN SHEATHING PANELS.  
(3) MINIMUM DIMENSION OF SHEATHING PANEL IN ANY DIRECTION SHALL BE 2'-0"  
(4) WALL SHEATHING PANELS MAY BE INSTALLED WITH THE LONG DIRECTION ORIENTED VERTICALLY.