#2 southern yellow pine (#1syp)							
floor joist			12	" O.C.	1	6"0.C.	24"0.c.
40 psf live load	2x	:10	16'-2" (18'-0"	@#2 @#1)	14 (16	'-0"@#2 '-1"@#1)	11'-5"@#2 (13'-3"@#1)
10 psf dead load (all rooms except sleeping)	2x	:12	19'-1" (21'-1	@#2 1"@#1)	16 (19	'-6"@#2 '-1"@#1)	13'-6"@#2 (15'-7"@#1)
30 psf live load	2×	(10	18'-1" (19'-1(@#2 2"@#1)	15 (18	'-8"@#2 '-0"@#1)	12'-10"@#2 (14'-8"@#1)
10 psf dead load (sleeping rooms @ L/360)	2×	(12	21'-4" (24'-2"	@#2 @#1)	18 (21	'-6" @#2 '-4" @#1)	15'-1"@#2 (17'-5"@#1)
ceiling joist							
(GWB ceilina @ 10 psf	2x	:6	13'-11 (15'-6'	1"@#2 "@#1)	12'- (14'	-0"@#2 -0"@#1)	9'-10"@#2 (11'-5"@#1)
dead load L/240)	2x	:8	17'-7"@#2 (20'-5"@#1)		15'-3"@#2 (17'-9"@#1)		12'-6"@#2 (14'-6"@#1)
rafters							
20 psf live load	2x	6	15'-	'-7"		3'-6"	12'-3"
10 psf dead load	2x	:8	19'-	-8" 1		7'-1"	15'-7"
30 psf live load	2x	2x6 12'		· 1 1"	1 1'-2"		9'-2"
10 psf dead load	2x	8	3 16'-4"		14'-2"		1 1'-7"
50 psf liveload	2x	:6	10'-6"		9'-2"		7'-5"
10 psf dead load (slope over 3/12 no finished clg@L/240)	2x	8	8 13'-4"		1 1'-7"		9'-5"
#2 S-P-F (spruce-pine-fir)							
floor joist				12"	0.C.	16"0.c	. 24"0.c.
40 psf live load		2x	10	17'-3	3"	15'-5"	12'-7"
10 psf aeaa 10aa (all rooms except sleeping	10 psf dead load (all rooms except sleeping)		2×12 20'-		7"	17'-10	" 14'-7"
30 psf live load		2×10		19'-0"		17'-2"	14'-1"
(sleeping rooms @ L/360)	,	2×12		23'-0"		19'-11	" 16'-3"
ceiling joist							
(GWB ceiling @ 10 psf dead load L/240)		2×6		14'-9"		12-10	" 10'-6"
		2x8 2x10		18-9 22'-11"		16-5	" 16'-3"
rafters							
20 psf live load		2x6 2x8		16'-3 21'-0	3" 2"	14'-4" 18'-2"	1 1'- 9" 1 4'- 1 <i>0</i> "
30 psf live load		2×6		13'-4	7"	1 1'- 1 1	" 19'-9"
10 psf dead load			8	17'-5	5" a"	15'-1" a'_a"	12'-4"
50 pst live load 10 pst dead load (sloge over 3/12 no finished (de l (180)			8	14'-3	3"	12'-4"	10-'1"

2015 IRC and the 2018 NCRC

abbreviations

сj	ceiling joist
clg.	ceiling
CMU	concrete masonry unit
C.O	cased opening
conc.	concrete
CT.	ceramic tile
dbl.	double
dj	double joist
ew.	each way
fj	floor joist
ftg.	footing
HVAC	heating/ventilating/air conditioning
jst.	joist
LVL.	laminated veneer lumber - ie. Parallam
mech.	mechanical
mil	.001 inch
min.	minimum
N.T.S.	not to scale
00	on center
pc	pull cord
pt.	pressure treated
psf	pounds per square foot
R/A	return air
read.	reauired
reinf.	reinforcing
Rm.	room
r <i>o</i> .	rough opening
sf	square feet
syp	southern yellow pine
Shw.	shower
T∉G	tongue and groove
vif	verify in field
М.Н.	water heater
MMM	welded wire mesh
ур	yellow pine

The Small Print - These house plans are not licensed to anyone other than the party listed on each sheet. They are not transferable to any builder, or subcontractor who is hired to build the house, nor their friends nor their family. If any modifications are made to these plans with a PDF editor, they must include the persons' name who is changing these plans, and the date of the changes. If the type font anywhere on these drawings is different than "this", it has been altered PDF's are now the industry standard. I appreciate the plan reviewers who have given me feedback on this issue. I try to provide very good house plans and they are very reasonably and fairly priced. I am happy to sell them, and appreciate those who do not steal them, but rather purchase them legally. Thank you, Rick Thompson

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Thank you for your purchase of these house plans.

These plans are designed to conform to the 2015 IRC and the 2018 NCRC including local state amendments. National and local building codes vary with location and change from time to time. Therefore it is impossible to warrant compliance to your specific location. It is the responsibility of the purchaser and/or the builder to adapt these plans to the requirements of the individual locale.

Structural Notes

These plans are designed for roof loads of 20 psf live load and 10 psi dead load. The chart to the left can be used to adjust for different requirements. All beams are labeled "LVL" and should be sized locally. Roof loads can vary and have a big impact on the beams carrying accumulated loads. Most Lumber suppliers can have this engineered for their product.

Wall Header Notes

Headers 3' or less to be $2-2\times6$ with 1 jack each side Headers 4' - 6' to be 2-2x8 with 2 jacks on each side Beams 4' to 6' to be 2-2x12 with 2 jacks on each side or 3" min bearing and footing under point loads.

Mall bracing notes

Continuious 7/16" osb sheathing - tupical. Wall bracing shall be in accordance to IRC/NCRC Section 602.10.3. The required length of bracing for each side of a rectangle circumscribed around the plan or a portion of the plan at each story level shall be determined using Table R602.10.3 and Figure R602.10.3(1). The cumulative contributing length of braced wall panels assigned to a rectangle side shall be greater than or equal to the required length of bracing specified in Table R602.10.3. The following additional requirements shall apply.

Limitations – The continuous sheathing requirements of Section R602.10.3 shall be limited to bracing method CS-WSP in accordance with Table R602.10.1 with the following conditions of use: 1. Basic design wind speed shall not exceed 115 mph.

Basic design wind speed shall not exceed 115 mph.
 Wall height at each story level shall not exceed 12 feet.
 Eave to ridge height shall not exceed 20 feet.
 Exterior walls shall be sheathed on all sheathable surfaces including infill areas between braced wall panels, above and below wall openings, and on gable end walls.
 Except when used for bracing method 6B, the interior side of exterior walls and both sides of interior walls shall be sheathed continuously with minimum 1/2-inch-thick gypsum wall board interior finish fastened in accordance with Table RT02.3.5, or approved interior finish of equivalent or greater shear resistance Unless required for fire separation by Section R302.6, gypsum board shall be permitted to be omitted where the required length of bracing, as determined in Table R602.10.3, is multiplied by 1.40.
 Floors shall not cantilever more than 24 inches (60 mm) beyond the foundation or bearing wall below.

<u>**Requirements**</u> The required length of bracing for each side of a rectangle circumscribed around the plan or a portion of the plan at each story level shall be determined using Table R602. 10.3 and Figure R602. 10.3(1). The cumulative contributing length of braced wall panels assigned to a rectangle side shall be greater than or equal to the required length of bracing specified in Table R602. 10.3. The following additional requirements shall apoly.

Re02.10.3(1). The cumulative contributing length of braced wain parties assigned to a rectangle side shall be greater than or equal to the required length of braced wain parties assigned to a rectangle side shall be requirements shall apply.
1. Braced wall panels on exterior or interior walls shall be assigned to the nearest rectangle side as shown in Figure R602.10.3(2) for each story level floor plan.
2. Braced wall panels shall be distributed and installed in accordance with Figure R602.10.3(3).
3. A minimum of one-half the required bracing amount for each rectangle side should be located on exterior walls within 3 feet of the location of the rectangle side.
4. Interior braced wall panels using Method GB shall be assigned to the closest parallel rectangle side and shall contribute 0.5 times their actual length. The narrowest width of braced wall panels allowed for GB is 43", and the 0.5 accounts for GB being half the strength of other methods except LIB.
5. The bracing amount provided on an upper story building side shall be deemed-to-comply where it equales or exceeds the amount of bracing required for the story immediately below.
6. Where the bracing amount provided on an upper story equals or exceeds the amount of bracing required for the story below, an analysis of bracing shall not be required for the upper story.
7. C5-W5P continuous sheathed W5P method to have - Minimum braced material thickness or size 7/16".
Minimum brac panel length or brace angle 24" adjacent to window not more than 6 1% of wall height; 30" adjacent to door or window greater than 6 1% and less than 35% of wall height. 48" for taller openings. Fasteners 6d common nail or 8d (2 1/2" long x 0.113" diameter) nails. See table R602.3(3). Space 6" edges and 12" field.

General Notes

• Square footages are for heated floor areas. This does not include fireplace projection or vaulted space. Stairs are counted on the main floor only.

• Dimensions are from the face of the stud wall. Contractor to verify all dimensions and please contact us if an error is present..

• All footings shall be on firm undisturbed soil of no less than 2000 psf and be below frost depth. The exact size and reinforcement of concrete footings must be determined by local soil conditions.

• HVAC design to be sized according to the local climate conditions including compass direction.

Energy Notes

- Caulk all exterior toe plates with latex caulk.
- Caulk all wire and pipe holes where they penetrate all upper and lower exterior plates.

• Use blown-in wall insulation if at all possible. If batt insulation is used pack behind all electrical boxes.

• Seal all joints in HVAC ducts, with leakage no more than 3%. Three inch fiber mesh tape should be used on all collar to plenum connections and all gaps that are 1/4" or wider. Insulate ducts with R-6.5 or greater.

• Foam insulate between all exterior window and door edges and rough opening frame. Use non-expanding foam.

· Provide back draft damper on kitchen hood vent, dryer vent, and bathroom vents.

• Insulate all hot water pipes.

• Install wrap kit on water heater.

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General crawl notes

Provide 18"x24" min. access door. Location as per field conditions - side prefered.

Provide foundation vents not less than 1 sqft per 150 sqft under floor space. One vent within 3 feet of each corner. IRC - R408.1

Unvented where exposed earth is covered and and air supplied as per IRC - R409

Fill piers solid with grout. Pier block size shown is minimum. May vary as per foundation height.

Pier spacing may vary dependant on local snow loads, soli bearing capacity and the use of roof trusses.

Footing sizes and reinforcement are assumed. Soil conditions vary and must be taken into account. Inspectors can allow builders to adjust the use of rebar and footing sizes as per local conditions.

Girders may be sized with LVL's to reduce piers. Up size footing accordingly $(30^{\circ}\times30^{\circ}\times10^{\circ} \text{ min } w/4-#4's each way)$ and $16^{\circ}\times16^{\circ}$ filled piers. See separate drawing for LVL's

Separate double joist under plumbing walls 3 1/2"



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All Federal, State and local codes shall be considered as a part of these documents, and shall take preference over anything shown or implied if differences arise.



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Door List					
Midth	Height	Name	Туре	Quantity	
1'-6"	6'-8"	RD02 Swing	Interior	2	
2'-0"	6'-8"	RD02 Swing	Interior	з	
2'-4"	6'-8"	RD02 Swing	Interior	1	
2'-6"	6'-8"	RD01 Door ST	Exterior	1	
2'-6"	6'-8"	RD02 Swing	Interior	4	
3'-0"	6'-8"	RD01 Door ST	Exterior	1	
6'-0"	6'-8"	RD05 Bifold	Interior	1	
				13	

Window List					
M x H Size	Units	Window Type	Quantity		
2'-0"x3'-10"	Single	RM1-4 Doublehung	2		
2'-8"×4'-0"	Louver	RM3-1 Arch Full	1		
2'-8"x5'-2"	Single	RM1-4 Doublehung	1		
3'-4"x4'-6"	Single	RM1-4 Doublehung	2		
3'-4"x5'-2"	Single	RM1-4 Doublehung	2		
5'-4"×4'-6"	Twin	RW1-4 Doublehung	1		
			9		



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plan # 1007A

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