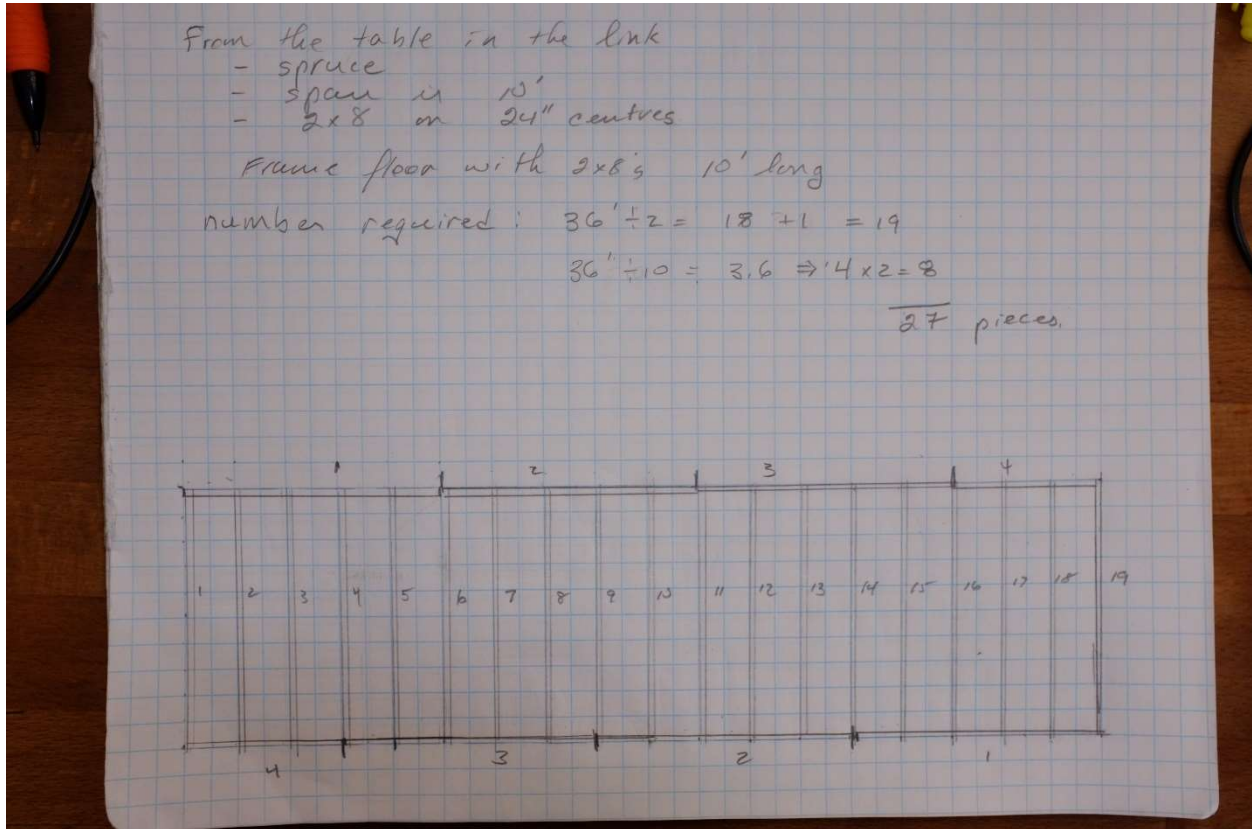


Carpentry – week 5

Last week we looked at framing for the floor. How many pieces did you come up with? I calculated 27 pieces of 2 x 8, 10 feet long placed 24 inches apart. Did anybody forget the rim joists?

Here is a sketch:



Here is a snap of the relevant table in the National Building Code which indicates that 2x8's on 24 inch centres is ok for a span of 10 feet.

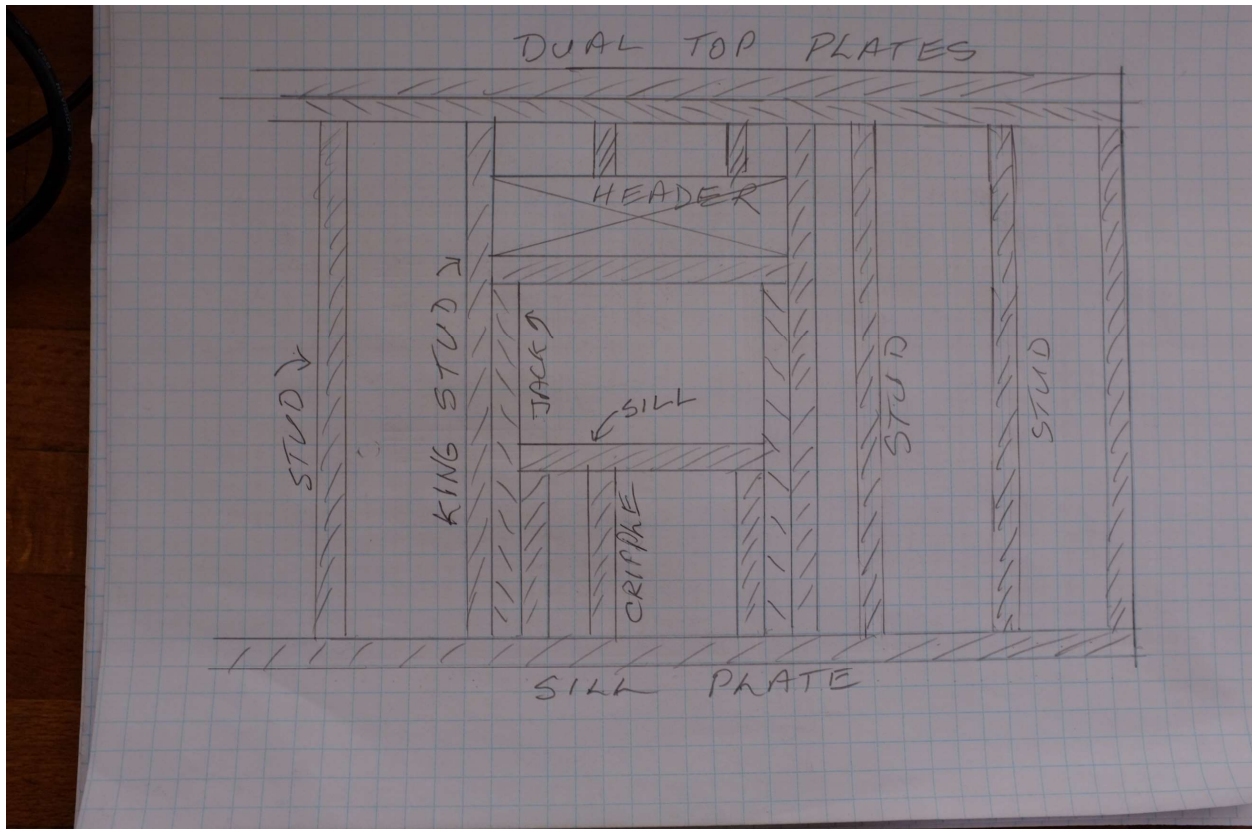
Spruce – Pine – Fir (includes Spruce (all species except Coast Sitka Spruce), Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	No. 1 and No. 2	38 x 235	4.31	4.10	3.90	4.59	4.31	4.05
		38 x 286	4.91	4.67	4.45	5.18	4.87	4.57
		38 x 89	1.86	1.72	1.58	1.99	1.81	1.58
		38 x 140	2.92	2.71	2.49	3.14	2.85	2.49
	No. 3	38 x 184	3.54	3.36	3.20	3.81	3.58	3.27
		38 x 235	4.17	3.96	3.77	4.44	4.17	3.92
		38 x 286	4.75	4.52	4.30	5.01	4.71	4.42
		38 x 89	1.81	1.68	1.55	1.96	1.78	1.55
		38 x 140	2.84	2.64	2.43	3.08	2.80	2.43
		38 x 184	3.47	3.30	2.95	3.74	3.52	2.95
	38 x 235	4.09	3.89	3.61	4.36	4.09	3.61	
	38 x 286	4.67	4.44	4.19	4.92	4.62	4.19	

Wall framing

Now it is time to think about framing walls. For this week I want you to try and figure out how many pieces of lumber would be needed to frame the front wall of the house. There are 4 openings: 1 large window in the bedroom, the front door, the slider and the window in the living room. The link is to a YouTube video about wall framing.

<https://www.youtube.com/watch?v=TmJJfLIZgaQ>

This is a sketch showing very simply the various components.



The walls are to be framed with 2x6 lumber on 24 inch centres. Make sure that there is always a framing member every 24 inches, even when the inclusion of door and window openings break up the sequence. This is important for nailing the exterior sheathing. There is no sill plate at door openings.

This is a snap of the lintel (header) span table from the National Building Code.

		1.0	1.5	2.0	2.5	3.0	
Limited attic storage and ceiling	2-38x89	This Area Intentionally Left Blank					1.27
	2-38x140						1.93
	2-38x184						2.35
	2-38x235						2.88
	2-38x286						3.34
Roof and ceiling only (tributary width of 0.6 m maximum) ⁽⁵⁾	2-38x89	2.55	2.23	2.02	1.88	1.77	1.88
	2-38x140	4.01	3.50	3.18	2.96	2.78	2.96
	2-38x184	5.27	4.61	4.18	3.88	3.66	3.88
	2-38x235	6.37	5.76	5.34	4.96	4.67	4.96
	2-38x286	7.38	6.67	6.21	5.87	5.61	5.87
Roof and ceiling only (tributary width of 4.9 m maximum) ⁽⁶⁾	2-38x89	1.27	1.11	1.01	0.93	① 0.87	0.93
	2-38x140	1.93	1.66	1.48	1.35	1.25	1.35
	2-38x184	2.35	2.02	1.80	1.64	② 1.52	1.64
	2-38x235	2.88	2.47	2.20	2.01	③ 1.84	2.01
	2-38x286	3.34	2.87	2.56	2.33	2.09	2.33
Roof, ceiling and 1 storey ⁽³⁾⁽⁶⁾⁽⁷⁾	2-38x89	1.05	0.96	0.89	0.84	0.79	0.74
	2-38x140	1.49	1.37	1.27	1.19	1.13	1.02
	2-38x184	1.82	1.67	1.55	1.44	1.33	1.20

Number 1 is for the door. Number 2 is for the two openings in the living room and number 3 is for the bedroom window. These are made up of 2 pieces of dimension lumber placed on edge.

This will take a bit of time. Send me a message if you have questions.