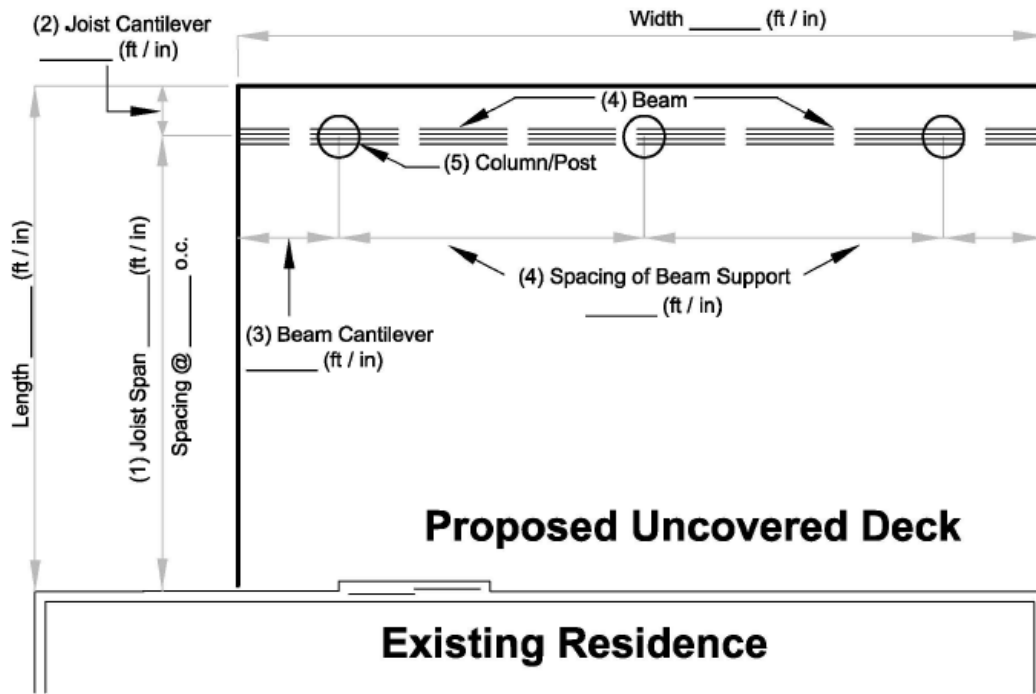


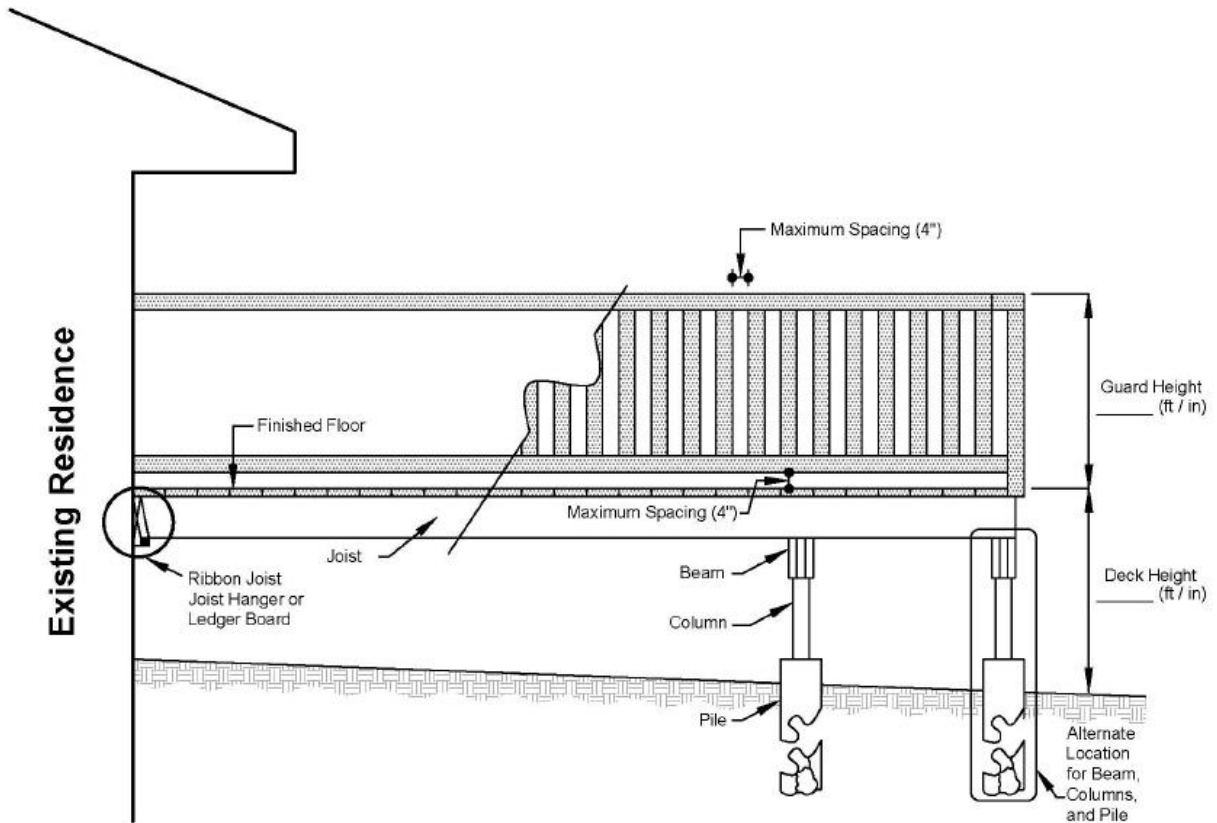
## FOUNDATION PLAN FOR AN UNCOVERED DECK



Please show the following information on your plan:

- o Location and spacing of piles or pads
- o Direction of floor joists and beams
- o Beams and joist cantilever length
- o Length of joist nailer support beam in feet and inches
- o Total length of beam in feet and inches
- o Stair location with rise and run measurements

## ELEVATION OF A TYPICAL RAISED UNCOVERED DECK



**NOTE:** This shows a typical deck. You may need to draw a separate elevation if this does not represent your proposed deck

## BUILDING CODE GUIDELINES FOR DECK CONSTRUCTION

The wood posts or columns shall be pressure treated where they are in contact with the ground or the vertical distance between the wood and ground is less than 150 mm (6 inches).

The rise and run of the deck stairs shall be uniform and each stair rise (step) shall be equal and the stair rise shall have a minimum rise of 125 mm (5 inches) and a maximum stair rise (step) not greater than 200 mm (8 inches) and the minimum stair tread width shall be not less than 235 mm (10 inches).

Guards and handrails are required on each side of deck stairs having more than 3 risers (steps).

Where the height of the deck is less than 1.8 metres (6 feet) from top of deck to finished grade, the guards for the deck shall be not less than 900 mm (36 inches) high.

Where the height of the deck is greater than 1.8 metres (6 feet) from top of deck to finished grade, the guards for the deck shall be not less than 1,070 mm (42 inches) high.

The space between the spindles for the guards shall be not greater than 100 mm (4 inches).

The deck guards cannot have any framing, attachments or openings that will facilitate climbing.

The wood columns or posts that support the deck beams shall be not less than 100 mm by 150 mm (4 inches by 6 inches) or 150 mm by 150 mm (6 inches by 6 inches).

The foundation system for the attached deck shall be of type that penetrates the local frost line for Parkland County.

1. Concrete piles that are 305 mm (12 inches) by 3.660 metres (12 feet) deep below grade level complete with 2-15M vertical rebar in each pile. The piles shall be not spaced more than 3.660 metres (12 feet) apart.
2. Pre-engineered steel helix piles (screw piles) - the spacing and depth of each screw pile depends on the manufacturer and design parameters, such as soil conditions, size, spacing and allowable supported structural loads on each pile.

**Note: Alternative Foundation systems will require approval from a Professional Engineer.**

The deck joists shall have solid blocking installed between each deck joists or continuous wood strapping on the underside of deck joists where the clear span of the joists exceed 2.1 metres (7 feet).

The deck joists cannot cantilever more than 600 mm (24 inches) over the beam in any direction.

The deck beams cannot cantilever more than 600 mm (24 inches) over the supporting foundation or pile.

Please note although the table refers to greater beam spans, the pile spacing cannot exceed 3.66 metres (12 feet) on centre.

**METRIC TABLE**

Deck Joists	38mm x 184 mm		38mm x 235 mm		38mm x 286 mm	
Joist Spacing	400 mm	600 mm	400 mm	600 mm	400 mm	600 mm
Maximum Joist Span	3.72 m	3.27 m	4.38 m	4.17 m	5.00 m	4.75 m

*Note: All dimension are in millimetres and metres*

Deck Beams	38mm x 184 mm 3 ply	38mm x 235 mm 3 ply	38mm x 286 mm 3 ply
Max Beam Spans	3.35 metres	4.26 metres	4.9 metres

*Note: All dimension are in millimetres and metres*

**IMPERIAL TABLE**

Deck Joists	2 inches X 8 inches		2 inches X 10 inches		2 inches X 12 inches	
Joist Spacing	16 inches	24 inches	16 inches	24 inches	16 inches	24 inches
Maximum Joist Span	12 feet – 2 inches	10 feet-9 inches	14 feet-4 inches	13 feet-8 inches	16 feet-5 inches	15 feet-7 inches

*Note: All dimension are in Imperial*

Deck Beams	2 inches X 8 inches 3 Ply	2 inches X 10 inches 3 Ply	2 inches X 12 inches 3 Ply
Max Beam Spans	11 feet-0 inches	14 feet-0 inches	16 feet-0 inches

*Note: All dimension are in Imperial*