# **Deck Construction Requirements**

## Requirements to receive a building permit for construction of a deck or terrace

- Plat of survey showing location of proposed deck
- 2 sets of detailed construction drawings
- Completed application.
- Call J.U.L.I.E. before you dig at 811
- 5. Permit fee is 2.2% of construction cost with a minimum fee is \$55.00 and a plan review fee \$85.00.

If contractor is doing work they must be registered. Homeowner doing their own work must provide a copy of your homeowners general liability; min. \$300,000.

## **General Requirements**

- Prepare site and remove all biodegradables, sod, etc.
- All lumber must be treated or rot resistant species
- Decks shall be designed to a minimum live load of 40 lbs. per sq. foot
- Balconies shall be designed to a minimum live load of 60 lbs. per sq. foot
- If attached to house, install ledger, bolted (see chart) to solid dimension lumber and can't be attached directly to plywood, nondimensional bands, truss joists, or cantilevered framing.
- Ledger requires water tight flashing.
- All fasteners must be hot-dipped galvanized or stainless
- Hot dipped galvanized or stainless connectors required when framing into headers, ledgers, beams, and post base with anchor bolts on concrete piers
- Hurricane ties shall be used for joist to beam attachment
- Bridging required on joist spans greater than 10 ft. between support beams or ledger.
- Headers and adjacent framing shall be doubled up and properly nailed
- 12. Guardrails are required on all surfaces 16" above the Floor or grade below & shall be not less than 36" in height
- Floor or grade below & shall be not less than 36" in height 13. Handrails required for all stairs with 2 or more risers of not less than 34" in height and maximum of 38" in height
- 14. Stair treads shall be min. 10" and risers max. of 7 %"

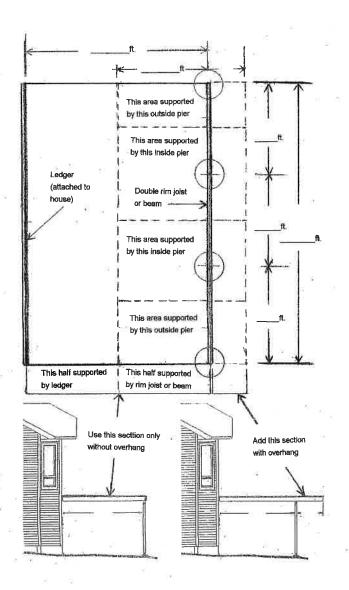
	Joist Spacing*	acing*	
Size	Spacing	Grade	Grade
⋽.	on Center	No. 1	No. 2
2X 6	12	10' 7"	10' 4"
	16	9' 7"	9' 5"
	24	8' 5"	7' 10"
2 X 8	12	13' 11"	13' 8"
	16	12' 8"	12' 5"
	24	11' 1"	10' 2"
2 X 10	12	17' 9"	17' 5"
	16	16' 2'	15' 10"
	24	1 တူ	13′ 1″
2 X 12	12	21' 7"	21' 12"
	16	19' 8"	18' 10"
	24	16 1	15' 5"

				Bea	E E	Spa	Beam Spacing*	*					
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\*Treated Southern Pine No. 2 or better

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Joist Spacing		Ledger Bolt/Lag Size and Spacing On Center	ing On Center
 40 psf	0-6 ft Joist Span	0-6 ft Joist Span 6-12 ft Joist Span 12-16 ft Joist Span	12-16 ft Joist Span
 12 in. oc	(2)-3/8in @24in oc	(2)-3/8in @24in oc (2)-1/2in @24in oc (2)-1/2in @24in oc	(2)-1/2in @24in oc
 16 in. oc	(2)-3/8in @24in oc	(2)-1/2in @24in oc (2)-1/2in @24in oc	(2)-1/2in @24in oc
 24 in. oc	(2)-3/8in @24in oc	(2)-3/8in @24in oc (2)-1/2in @24in oc (2)-1/2in @24in oc	(2)-1/2in @24in oc
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### **Calculate Footings/Piers**

Measurment from Ledger to Rim Joist

Add overhang Square Footage if your

Divide Total from Step 5 by number of

deck has an overhang, if not enter

amount from Step 4 in Total

Multiply amount from Step 6

Support Posts

	or Beam
Step 2	Enter Measurment from End to End
Step 3	Multiply Step 1 X Step 2
Step 4	Divide answer from Step 3 by 2

Ste Step 4 Step 5

Step 1

Step 7

Step 8

Step 6

X 50 PSF = Footing Load PSF Select Footing Load Capacity higher than Footing Load from Step 7 to obtain minimum required Footing Diameter from chart below.

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Footing Load Capacity	Footing Diameter
700 PSF	8 In
1100 PSF	10 ln
1580 PSF	12 ln
2200 PSF	14 ln
3540 PSF	16 In

Footing Diamater Required \_\_\_

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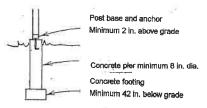
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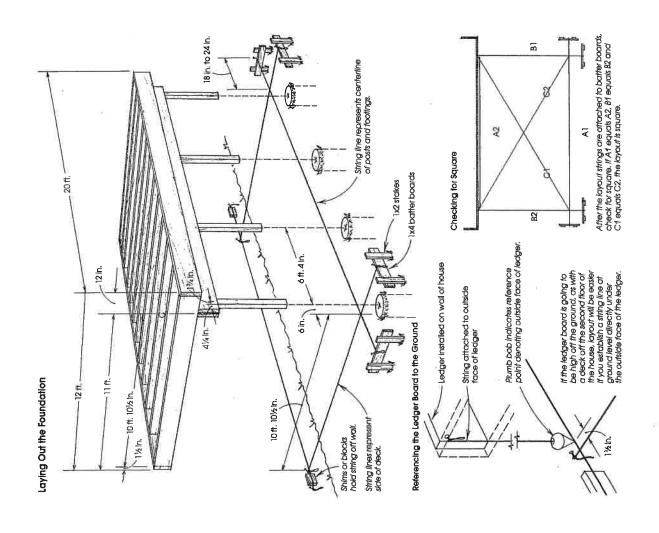
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## Two Ways to Frame a Deck

### Beam-Over-Post Framing

Jolsts spaced 16 in. or 24 ln. on center, typ.

The cantilever should not exceed one-tith of the maximum rated span of the joists. It should never exceed one-half the length of the joist that is supported between the leager and the beam.

