



City of Byron  
232 W. Second St.-PO Box 916  
Byron IL 61010  
815-234-2762

For Office Use Only:

Date Paid: \_\_\_\_\_  
Total Due: \_\_\_\_\_  
Cash or Check #: \_\_\_\_\_  
Received by: \_\_\_\_\_

## DECK PERMIT

**Fee: \$80.00**

Property Owner: \_\_\_\_\_

Address: \_\_\_\_\_

Property Pin #: \_\_\_\_\_  
(Can be found on your tax bill)

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

I prefer to be contacted by:

\_\_\_\_\_ Phone \_\_\_\_\_ Text \_\_\_\_\_ Email

Address where deck will be installed:

\_\_\_\_\_ Residential - Single Family  
\_\_\_\_\_ Residential - Multi-Family  
\_\_\_\_\_ Commercial

\_\_\_\_\_ I will be doing the work myself OR

Contractor's Name and Address:

\_\_\_\_\_  
\_\_\_\_\_

(Please list additional contractors names and addresses on  
back or separate paper)

Phone: \_\_\_\_\_

License # (If applicable): \_\_\_\_\_

Approx. project cost: \$ \_\_\_\_\_

NOTE TO HOMEOWNERS: If you obtain this permit on  
behalf of a contractor, you are liable for all work including  
any violations or incomplete work.

Email permit to: \_\_\_\_\_ Owner \_\_\_\_\_ Contractor Email address: \_\_\_\_\_

- Minimum 42" depth required for postholes.
- Width of stairways shall not be less than 36" at all points.
- Maximum riser height of steps shall be 7-3/4"
- Guardrails shall be installed if deck is 30" or more above grade.
- Space between spindles on guardrails and handrails shall be less than 4".
- Minimum height of handrail shall be 34".
- Maximum height of handrail shall be 38".
- Call 24 hours in advance for posthole inspections (815) 234-4202, ext. 229.
- Other requirements apply for corner lots.

This application must be accompanied by a survey or shop drawing showing location and dimensions of deck on property. (See sample drawing attached). Additional deck specifications attached.

The Deponent being duly sworn says that he is the owner or authorized agent for which the foregoing work is proposed to be done, and that all work will be performed in accordance with all existing State Laws and Local Ordinances.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

~~~~~DO NOT WRITE BELOW THIS LINE—OFFICE USE ONLY~~~~~

The proposed structure and the use thereof complies with the provisions of the building codes and ordinances.

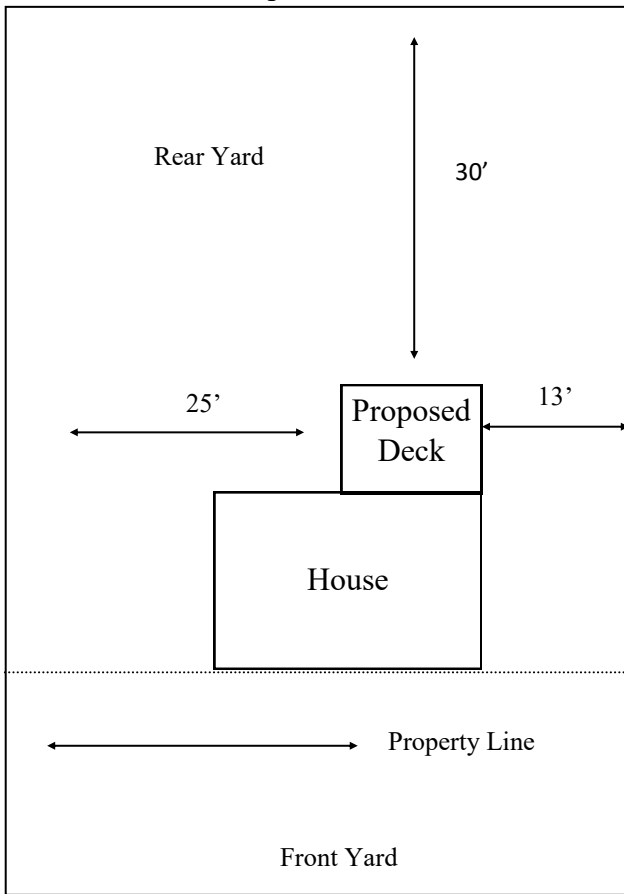
Application Approved \_\_\_\_\_ Application Denied \_\_\_\_\_

Reason: \_\_\_\_\_

\_\_\_\_\_  
Building Inspector

\_\_\_\_\_  
Date

### Sample Sketch



Draw property lines including lot size. Draw proposed area of new deck and include size. Show location of easements, if any, and attach plot plan if available.

Please call 24 hours in advance for posthole and final inspections.

### Your Sketch (Add approximate square footage)

A large, empty rectangular box intended for the user to draw their own property sketch, including dimensions and square footage.



City of Byron  
Building & Zoning Department

Larry Hewitt  
Building Official  
E-mail: [Lhewitt@es-il.org](mailto:Lhewitt@es-il.org)  
Phone: 815-234-4202, ext. 229

**Deck Specifications:**

**Piers:**

- Minimum depth of 42 inches
- Minimum 8 inch diameter or 10 inch square

**Posts:**

- Pressure treated or water resistant

**Beams:**

- Splices in beams to be made over post or pier
- All beams must be fastened together and bear directly on a post or installed to either side of the post and open space between beam shall be blocked with a 2x4 every 2 feet
- All post to beam connectors shall be galvanized metal

**Floor Joists:**

- Maximum 16 inch center joists when using 5/4 decking
- Shall bear on both halves of beam when beam is attached to either side of post beam
- When beams are fastened together, joist may bear directly on beam or hang from beam with approved galvanized joist hanger
- Must be rated at 40 psf live load

**Stairs:**

- Maximum 7 ¾ inch riser height and 11 inch tread width
- All treads must be same depth
- Risers may not vary more than 3/8 inches

**Handrails:**

- Required on stairs greater than 30 inches from grade
- Maximum spacing between balusters is 4 inches
- Guardrails required on all decks 30 inches or more above grade
- Guardrails shall not be installed in a manner that creates a ladder effect

**Connectors:**

- Joist hangers shall be full depth of joist and approved joist hanger nails or 16 penny galvanized

**Other items:**

- Location of deck on property must meet all zoning requirements

**Inspection Requirements:**

- Inspections must be scheduled for two separate intervals:
  1. Piers: After holes are dug and prior to pouring concrete
  2. Final: After deck is completed



City of Byron  
Building & Zoning Department

Larry Hewitt  
Building Official  
E-mail: [Lhewitt@es-il.org](mailto:Lhewitt@es-il.org)  
Phone: 815-234-4202, ext. 229

**Deck Joist Spans  
40 PSF  
Using Pressure Treated Lumber**

| <b>JOIST SPACING</b>     | <b>MAXIMUM CLEAR SPAN</b> |
|--------------------------|---------------------------|
| 2 x 6's @ 16" on Center  | 9' - 6"                   |
| 2 x 6's @ 24" on Center  | 7' - 9"                   |
| 2 x 8's @ 16" on Center  | 12' - 7"                  |
| 2 x 8's @ 24" on Center  | 10' - 3"                  |
| 2 x 10's @ 16" on Center | 16' - 0"                  |
| 2 x 10's @ 24" on Center | 13' - 1"                  |
| 2 x 12's @ 16" on Center | 19' - 6"                  |
| 2 x 12's @ 24" on Center | 15' - 11"                 |

**Beam sizes vary depending on span of beam desired and length of joists above.**

**Area of footing also may vary depending on floor area of loading zone above.**

**Assume soil bearing values of 2,500 pounds per square foot for design purposes.**

## JOIST AND POST SPACING

|                                                         |     | Unsupported Length of Joists |           |           |           |           |           |           |           |           |
|---------------------------------------------------------|-----|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                                         |     | 6'                           | 7'        | 8'        | 9'        | 10'       | 11'       | 12'       | 13'       | 14'       |
| P<br>O<br>S<br>T<br><br>S<br>P<br>A<br>C<br>I<br>N<br>G | 4'  | 1<br>2x6                     | 1<br>2x6  | 1<br>2x6  | 1<br>2x8  | 1<br>2x8  | 1<br>2x8  | 1<br>2x8  | 1<br>2x10 | 1<br>2x10 |
|                                                         |     |                              | 1<br>2x8  | 1<br>2x8  | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x12 | 1<br>2x12 |
|                                                         | 5'  | 1<br>2x6                     | 2<br>2x6  | 2<br>2x6  | 1<br>2x8  | 1<br>2x8  | 1<br>2x8  | 1<br>2x8  | 1<br>2x10 | 1<br>2x10 |
|                                                         |     |                              | 1<br>2x8  | 1<br>2x8  | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x12 | 1<br>2x12 |
|                                                         | 6'  | 2<br>2x6                     | 2<br>2x6  | 2<br>2x6  | 2<br>2x8  | 2<br>2x8  | 2<br>2x8  | 2<br>2x8  | 2<br>2x10 | 2<br>2x10 |
|                                                         |     |                              | 1<br>2x8  | 2<br>2x8  | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x10 | 1<br>2x12 | 1<br>2x12 |
|                                                         | 7'  | 2<br>2x6                     | 3<br>2x6  | 3<br>2x6  | 2<br>2x8  | 2<br>2x8  | 2<br>2x8  | 3<br>2x8  | 2<br>2x10 | 2<br>2x10 |
|                                                         |     |                              | 2<br>2x8  | 2<br>2x8  | 2<br>2x10 | 2<br>2x10 | 2<br>2x10 | 2<br>2x10 | 1<br>2x12 | 2<br>2x12 |
|                                                         | 8'  | 3<br>2x6                     | 3<br>2x6  | 3<br>2x6  | 3<br>2x8  | 3<br>2x8  | 3<br>2x8  | 3<br>2x8  | 2<br>2x10 | 2<br>2x10 |
|                                                         |     |                              | 2<br>2x8  | 2<br>2x8  | 2<br>2x10 | 2<br>2x10 | 2<br>2x10 | 2<br>2x10 | 2<br>2x12 | 2<br>2x12 |
|                                                         | 9'  | 3<br>2x6                     | 4<br>2x6  | 4<br>2x6  | 3<br>2x8  | 3<br>2x8  | 3<br>2x8  | 4<br>2x8  | 2<br>2x12 | 2<br>2x12 |
|                                                         |     |                              | 2<br>2x8  | 3<br>2x8  | 3<br>2x8  | 2<br>2x10 | 2<br>2x10 | 3<br>2x10 | 2<br>2x12 | 2<br>2x12 |
|                                                         | 10' | 4<br>2x6                     | 3<br>2x8  | 3<br>2x8  | 3<br>2x8  | 4<br>2x8  | 4<br>2x8  | 4<br>2x8  | 3<br>2x10 | 3<br>2x10 |
|                                                         |     |                              | 3<br>2x8  | 2<br>2x10 | 2<br>2x10 | 3<br>2x10 | 2<br>2x10 | 2<br>2x10 | 2<br>2x12 | 3<br>2x12 |
|                                                         | 11' | 3<br>2x8                     | 3<br>2x8  | 4<br>2x8  | 4<br>2x8  | 3<br>2x10 | 3<br>2x10 | 3<br>2x10 | 4<br>2x10 | 4<br>2x10 |
|                                                         |     |                              | 2<br>2x10 | 2<br>2x10 | 3<br>2x10 | 3<br>2x10 | 2<br>2x12 | 3<br>2x12 | 3<br>2x12 | 3<br>2x12 |
|                                                         | 12' | 3<br>2x8                     | 4<br>2x8  | 4<br>2x8  | 3<br>2x10 | 3<br>2x10 | 4<br>2x10 | 4<br>2x10 | 4<br>2x10 | 4<br>2x10 |
|                                                         |     |                              | 2<br>2x10 | 3<br>2x10 | 3<br>2x10 | 2<br>2x12 | 3<br>2x12 | 3<br>2x12 | 3<br>2x12 | 3<br>2x12 |

Using the table above -

Example: If your posts are 8' apart, and the unsupported length of joists are 10', the beam can be constructed from either (3) 2x8's or (2) 2x10's. Notice shaded areas and outlined box showing the choice of beams material sizes.

Decks built to support spas or hot tubs must be designated by a certified engineer or licensed architect in the State of Illinois.