

**TOWNSHIP OF PINE**  
230 PEARCE MILL ROAD  
WEXFORD, PA 15090  
(724) 625-1591

**PA State Uniform Construction Code**  
**Residential Building Permit Submission Requirements -Decks**

**NOTE: EFFECTIVE FEBRUARY 14, 2022, THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH SOME AMENDMENTS IS APPLICABLE.**

**Submission Requirements:**

The following items must be submitted with the completed Building Permit Application:

- Two sets of drawings of the proposed construction.
- Two copies of the site plan/survey indicating the location of the proposed structure.
- The general contractor for the project shall provide a completed worker's compensation insurance certificate or notarized exemption form.

**Fees:**

The cost of the building permit is based on the builder's estimate. See Fee Schedule for amounts.

**Standard Building Code Requirements and Inspections for Accessory Structures and Decks:**

**Site Requirements:** With excavation and clearing of the building site, a silt fence, trenched and staked, shall be installed at the low sides of the excavation area or property lines. The Building Permit shall be posted and visible from the street. Any accumulated mud or debris shall be removed from the streets immediately. On lot dumpsters shall be utilized to contain construction debris. No open burning is permitted. **NOTICE: Failure to maintain on lot site requirements will result in the immediate shut down of construction activities until those items are brought into compliance.**

**Footings:** Trenches and forms shall be clean and free of any standing water. Deck post-holes shall be a minimum of 36 inches deep. Concrete footings shall be per section R507.3.1 of the 2018 IRC based on tributary loads. Posts shall be laterally supported by a connector or a minimum embedment of 12" of soil or concrete footing, typically 12" wide x 6" thick or based on tributary loads. **Inspection required.**

**General Framing:** Deck ledger boards shall be attached to the house per R507.9. Ledger board attachment through or to brick/stone veneer and concrete block will **not** be accepted. Self-supporting decks are permitted. Stairs treads shall be a minimum of 9 inches with a rise no greater than 8-1/4 inches. Single beam spans have been added. Hold-down tension devices shall be installed in not less than two locations and possibly 4 locations depending on the device per deck. **Inspection required.**

**Plumbing and Electrical Installations (Where applicable):** All plumbing shall conform to Allegheny County Plumbing Code(s) and the IPC. Electrical installations shall conform to the ICC Electrical Code. Nail plates and fireblocking shall be installed where appropriate. **Allegheny County plumbing inspection required, and Township approved electrical inspection required for rough-in and final inspections.**

**Final/Occupancy:** All handrails, guardrails, and safety features shall be complete. All required fencing for pools shall be installed. Final plumbing inspections, electrical inspections, and detail shall be verified complete. All features on the approved plans shall be complete. All access and egress features shall be installed. **Inspection required.**

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**Residential Inspection Schedule: Decks**

The Building Permit Applicant agrees to comply with the provisions of the Township of Pine Ordinances, Codes, and Regulations, and with all applicable laws and regulations of Allegheny County, Commonwealth of Pennsylvania, and the United States, whether or not specified in these requirements.

**NOTE: One business day notice is required to schedule inspection requests: 724-625-1636.**

**Footings:** Schedule inspection following post hole excavation before the concrete pour.

**General Framing:** Schedule rough frame inspection before concealing any structural members. If all structural members remain exposed, the framing inspection can be completed at the Final/Occupancy Inspection.

**Plumbing, Mechanical, and Electrical (If Applicable):** Plumbing and electrical inspections should be scheduled with the appropriate agency/inspector as required. Mechanical inspections will be included with the general framing and final inspections.

**Final/Occupancy:** Schedule inspection when all required items are complete.

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Typical Framing Requirements for Treated Lumber Decks

**JOISTS SPANS**

Southern Pine	Spacing of joists with no cantilever			Spacing of joists with cantilevers		
	12"	16"	24"	12"	16"	24"
2 x 6	9-11	9-0	7-7	1-3	1-4	1-6
2 x 8	13-1	11-10	9-8	2-1	2-3	2-5
2 x 10	16-2	14-0	11-5	3-4	3-6	2-10
2 x 12	18-0	16-6	13-6	4-6	4-2	3-4

**BEAM SPANS**

Southern Pine	Deck joists spans less than or equal to in feet						
	6	8	10	12	14	16	18
1 - 2 x 6	4-11	4-0	3-7	3-3	3-0	2-10	2-8
1 - 2 x 8	5-11	5-1	4-7	4-2	2-10	3-7	3-5
1 - 2 x 10	7-0	6-0	5-5	4-11	4-7	4-3	4-0
1 - 2 x 12	8-3	7-1	6-4	5-10	5-5	5-0	4-9
2 - 2 x 6	6-11	5-11	5-4	4-10	4-6	4-3	4-0
2 - 2 x 8	8-9	7-7	6-9	6-2	5-9	5-4	5-0
2 - 2 x 10	10-4	9-0	8-0	7-4	6-9	6-4	6-0
2 - 2 x 12	12-2	10-7	9-5	8-7	8-0	7-6	7-0
3 - 2 x 6	8-2	7-5	6-8	6-1	5-8	5-3	5-0
3 - 2 x 8	10-10	9-6	8-6	7-9	7-2	6-8	6-4
3 - 2 x 10	13-0	11-3	10-0	9-2	8-6	7-11	7-6
3 - 2 x 12	15-3	13-3	11-10	10-9	10-0	9-4	8-10

**FASTENER SPACING FOR DECK LEDGER BOARDS**

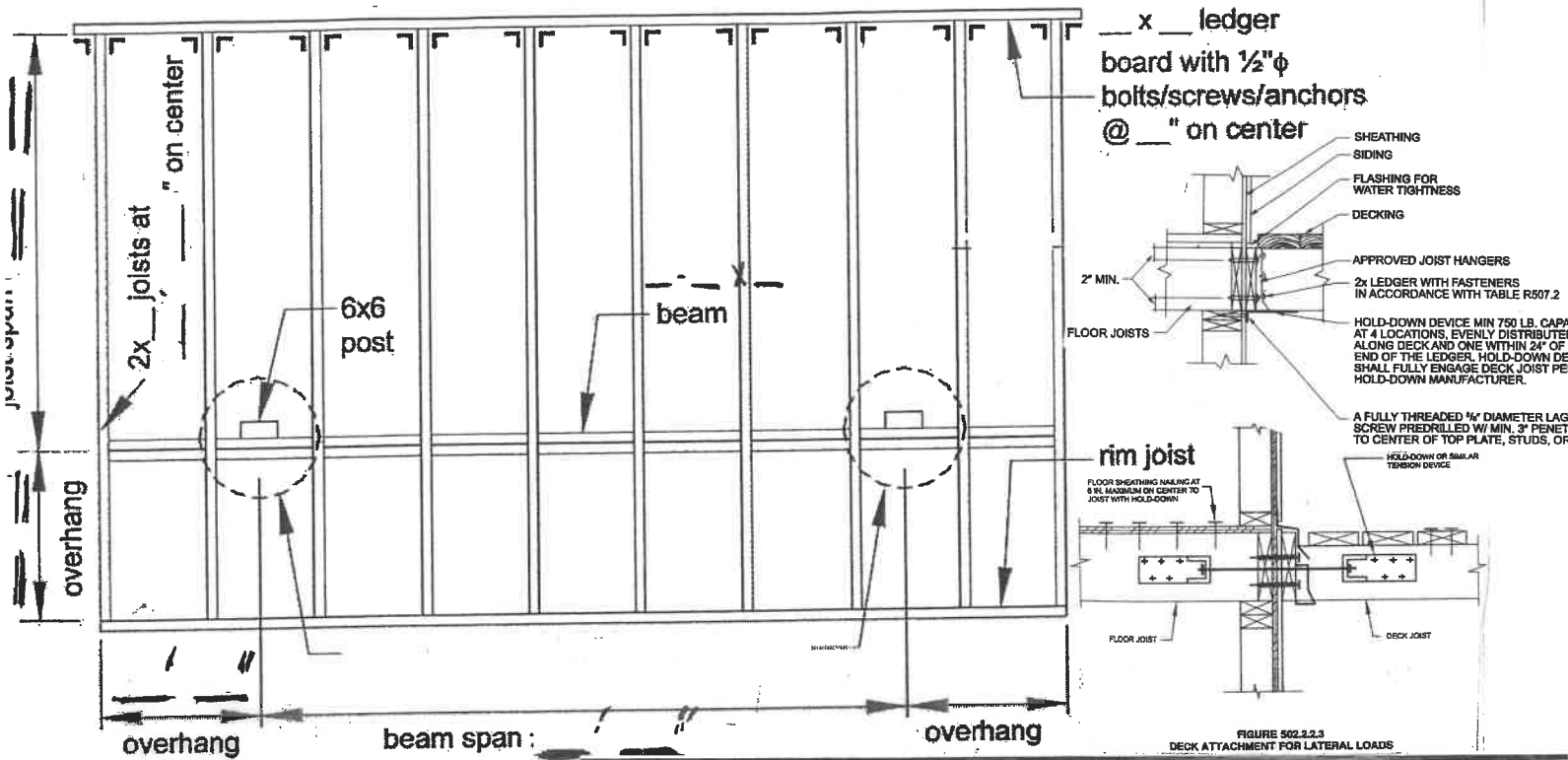
Joist Span	Under 6'	6'1"-8'	8'1"-10'	10'1"-12'	12'1"-14'	14'1"-16'	16'1"-18'
<b>Connection Details</b>	<b>On-center spacing for fasteners</b>						
½" lag screw with 1/2" max sheathing	30	23	18	15	13	11	10
½" bolt with 1/2" max sheathing	36	36	34	29	24	21	19
½" bolt with 1" max sheathing	36	36	29	24	21	18	16

1. Spans are maximum between bearing points
2. Values are based on 40 psf live load and 10 psf dead load
3. Max cantilever length is per table 507.6 or ¼ of bearing length of floor joist, whichever is less

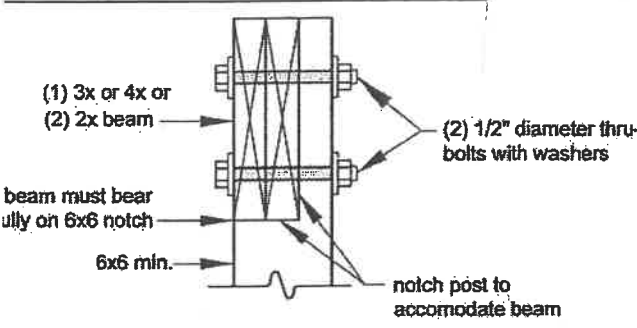
**Notes:**

- As of 2/14/2022, the 2018 IRC is currently enforced for deck construction with some amendments
- Deck posts are typically 6x6 that are notched to accommodate the beam or an approved post cap
- Full width of the beam must bear directly on post and through-bolted
- Decks shall **not** be supported on stone or masonry veneer. Self-supporting decks shall be permitted
- Decks over 30" above finished grade require guardrails per code
- Floor joists are allowed to cantilever one-fourth of the adjacent joist span
- Beams are permitted to cantilever at each end up to one-fourth of the actual beam span
- The tip of a lag screw shall fully extend beyond the inside face of the existing band joists
- Ledgers shall be flashed to prevent water from contacting the house band joists
- Lag screws or bolts shall be placed 2 inches in from the bottom or top of the deck ledgers and between 2 and 5 inches in from the ends. Lag screws or bolts shall be staggered along the horizontal run
- Hold-down tension devices shall be installed in not less than two locations or 4 locations, depending on the type of device per deck. A manufactures connector will meet this requirement
- All stairs over 30" in height require a handrail/guardrail 34" -38" above the tread nosing
- Ledger boards shall not be attached to overhangs or bay windows
- 6x6 posts cannot exceed 14' in height. 4x4 and 4x6 post cannot exceed 8' in height

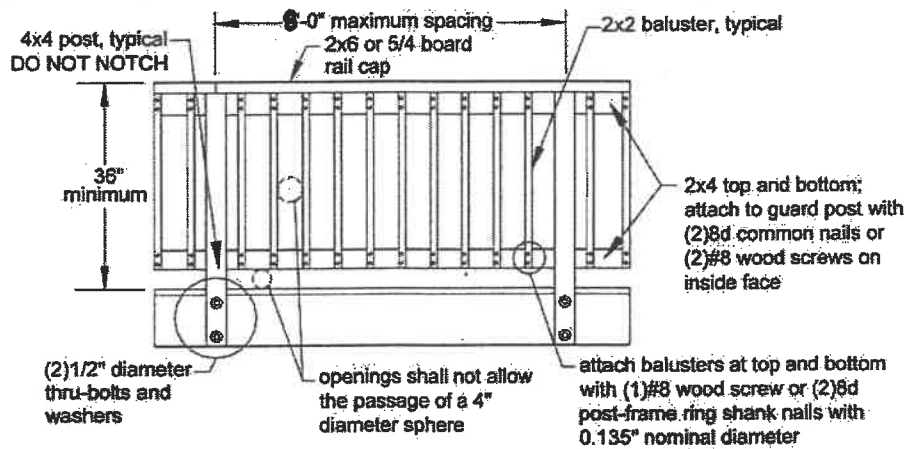
# Typical Deck Framing Plan



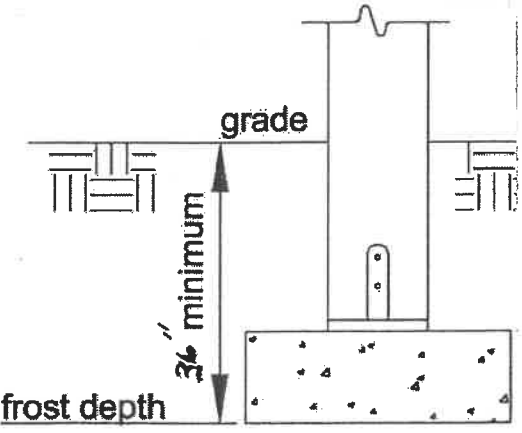
## Post-to-Beam Attachment



## Example Guard Detail

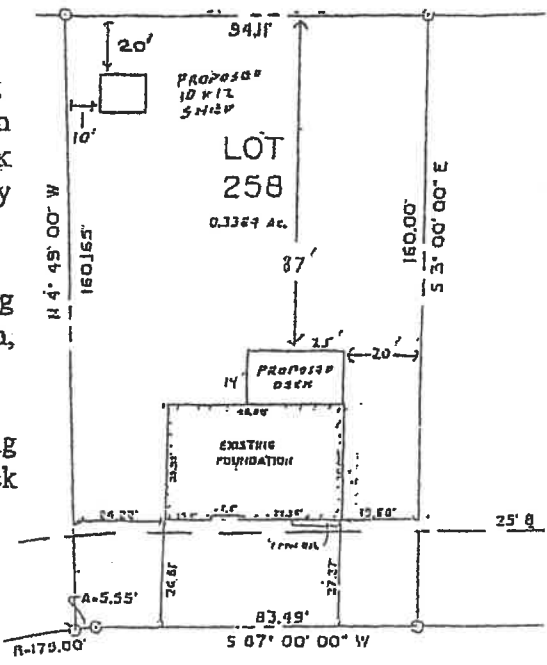


## Figure 12: Typical Footing Options



### EXAMPLES:

1. Existing property Survey Identifying The proposed location of an accessory structure and deck addition. Distances from property lines are identified.
2. Deck construction plans identifying beam sizes, post sizes, footing depth, and handrail details.
3. Deck construction plans identifying joist size and spacing and deck dimensions.



FOR ILLUSTRATION PURPOSES ONLY  
 APPLICANT TO PROVIDE ADEQUATE INFORMATION  
 WITH BUILDING PERMIT APPLICATION  
 TO DETERMINE CODE COMPLIANCE